Appendix A

Hydrologic Regions, Subregions, and Subbasins in Alabama

The Mobile and Tennessee Rivers are the major river systems in Alabama. Within Alabama, the Mobile River comprises 46 subbasins and 5 subregions while the Tennessee River comprises 7 subbasins and 2 subregions. The hydrologic classification scheme used for this report and the following table (A-1) is from the USDA, Soil Conservation Service Publication, State of Alabama Hydrologic Unit Map with drainage areas by county and subbasin, March 1993: Federal standards for delineation of hydrologic unit boundaries, version 2.0, October 1, 2004. Table A-1 lists each hydrologic region with it's associated subregions and subbasins by hydrologic unit code and name.

Table A-1. Eight-digit hydrologic unit codes and corresponding subbasin and subregion names, Alabama.

Subregion and eight-digit hydrologic unit code	Subbasin
South Atlantic-Gulf Region, Mobile River Basin	
Appalachicola	
03130002	Middle Chattahoochee–Lake Harding
03130003	Middle Chattahoochee-W.F. George Reservoir
03130004	Lower Chattahoochee
03130012	Chipola
Choctawhatchee-Escambia	
03140103	Yellow
13140104	Blackwater
03040106	Perdido
03140107	Perdido Bay
03140201	Upper Choctawhatchee
03140202	Pea
03140203	Lower Choctawhatchee
03140301	Upper Conecuh
03140302	Patsaliga
03140303	Sepulga
03140304	Lower Conecuh
03140305	Escambia
Alabama	
03150105	Upper Coosa
03150106	Middle Coosa
03150107	Lower Coosa
03150108	Upper Tallapoosa
03150109	Middle Tallapoosa
03150110	Lower Tallapoosa
03150201	Upper Alabama
03150202	Cahaba
03150203	Middle Alabama
03150204	Lower Alabama

Subregion and eight-digit hydrologic unit code	Subbasin
South Atlantic-Gulf Region, Mobile River Basin-Continued	
Mobile-Tombigbee	
03160101	Upper Tombigbee
03160103	Buttahatchee
03160105	Luxapallila
03160106	Middle Tombigbee-Lubbub
03160107	Sipsey
03160108	Noxubee
03160109	Mulberry Fork
03160110	Sipsey Fork
03160111	Locust Fork
03160112	Upper Black Warrior
03160113	Lower Black Warrior
03160201	Middle Tombigbee–Chickasaw
03160202	Sucarnoochee
03160203	Lower Tombigbee
03160204	Mobile–Tensaw
03160205	Mobile Bay
Pascagoula	
03170002	Upper Chickasawhay
03170003	Lower Chickasawhay
03170008	Escatawpa
03170009	Mississipps Coastal
Tennessee Region, Tennessee River Basin	
Middle Tennessee Hiwassee	
06020001	Middle Tennessee-Chickamauga
Middle Tennessee-Elk	
06030001	Guntersville Lake
06030002	Wheeler Lake
06030003	Elk
06030004	Lower Elk
06030005	Pickwick Lake
06030006	Bear

Appendix B

“Population Projections and Economic Forecasts for Water Use Planning”

This appendix contains the above titled report produced by the Center for Business and Economic Research in the University of Alabama’s Culverhouse College of Commerce through a grant by the Office of Water Resources (OWR).

The report provides population projections and economic forecasts for Alabama and the state’s 67 counties in five-year intervals from 2010 to 2040. Population is also forecasted by county for the state’s 1,181 census tracts as defined in the 2010 Census. These forecasts furnish data to OWR that support long-term water supply planning and in projecting water use demands through 2040 for the state.

Both the population and economic forecasts are produced by models developed and maintained by the Center for Business and Economic Research. The methodology for these projections is detailed in the report.

POPULATION PROJECTIONS AND ECONOMIC FORECASTS FOR WATER USE PLANNING

For:
Office of Water Resources
Alabama Department of Economic and Community Affairs

September 2014

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Population Projections and Economic Forecasts for Water Use Planning

This project provides population projections and economic forecasts for Alabama and the state's 67 counties in five-year intervals from 2010 to 2040. Population is also forecasted by county for the state's 1,181 tracts as defined in the 2010 Census. These forecasts furnish data to the Office of Water Resources for projecting water use demands through 2040 in the context of long-term water supply planning for the state.

Both the population and economic forecasts are produced by models developed and maintained by the Center for Business and Economic Research in The University of Alabama's Culverhouse College of Commerce. The methodology for these projections is detailed in this report.

Population Projections Summary

The Center for Business and Economic Research has projected population for all counties and census tracts in Alabama for 2015 to 2040 in five-year increments. The projections are based on the available demographic and socioeconomic information and reflect current expectations of future economic conditions.

Overall, Alabama's population is expected to increase by 804,955 people (16.8 percent) over the 2010 to 2040 period, rising from 4,779,736 in 2010 to 5,584,691 in 2040. Projected population growth varies by county and census tract. Counties with the highest number of projected new residents are Madison, Baldwin, Shelby, Lee, Tuscaloosa, Limestone, St. Clair, Houston, Marshall, and Mobile.

Top 10 Increasing County Populations in Alabama

County	2010 Census	2040 Projection	Change 2010-2040 Number	Change 2010-2040 Percent
Madison	334,811	470,624	135,813	40.6
Baldwin	182,265	300,466	118,201	64.9
Shelby	195,085	295,029	99,944	51.2
Lee	140,247	211,575	71,328	50.9
Tuscaloosa	194,656	248,921	54,265	27.9
Limestone	82,782	131,174	48,392	58.5
St. Clair	83,593	125,720	42,127	50.4
Houston	101,547	131,211	29,664	29.2
Marshall	93,019	121,698	28,679	30.8
Mobile	412,992	438,667	25,675	6.2

Source: U.S. Census Bureau and Center for Business and Economic Research, The University of Alabama, September 2014.

Thirty-one of Alabama's 67 counties have projected population declines from 2010 to 2040, with percentage losses ranging from -0.1 to -22.7 percent. Among these counties, Macon, Monroe, Dallas, Lawrence, Marengo, Clarke, Marion, Choctaw, Fayette, and Washington counties are the bottom 10 counties in terms of the number of residents lost.

Bottom 10 Declining County Populations in Alabama

County	2010 Census	2040 Projection	Change 2010-2040 Number	Percent
Macon	21,452	16,590	-4,862	-22.7
Monroe	23,068	19,105	-3,963	-17.2
Dallas	43,820	39,858	-3,962	-9.0
Lawrence	34,339	30,477	-3,862	-11.2
Marengo	21,027	17,626	-3,401	-16.2
Clarke	25,833	22,555	-3,278	-12.7
Marion	30,776	27,696	-3,080	-10.0
Choctaw	13,859	10,867	-2,992	-21.6
Fayette	17,241	14,542	-2,699	-15.7
Washington	17,581	14,883	-2,698	-15.3

Source: U.S. Census Bureau and Center for Business and Economic Research, The University of Alabama, September 2014.

Methodology

Economic Forecasts

CBER has prepared baseline economic forecasts for the state's manufacturing sector and the two-digit sectors of the economy for all 67 counties in Alabama. Economic output and employment forecasts for counties are made to 2040 using the two-digit NAICS industry classifications. Appropriate versions of the Alabama Econometric Model (AEM) were developed and used to calculate the economic forecasts. The AEM is developed and maintained by CBER.

The Alabama Econometric Model is a simultaneous equation model with over 200 stochastic equations and identities. This simultaneous equation structure captures the interrelationships and feedback among economic variables and provides consistent measures of economic activity across all sectors of the state's economy, including the gross domestic product (GDP), employment, wage rates, and income. GDP is defined as the total value of goods and services produced in the nation, the state, or a county. Consistency in estimating the models is achieved because all of the equations included in the model are solved simultaneously. Simultaneous equation econometric models are based on sound statistical methodology that enables the testing of estimated structural relationships. These models are powerful tools for regional economic forecasting and economic impact analysis. AEM comprises five major components or blocks, each consisting of a set of equations for every major sector and industry in the state's economy.

Output Block. This block models gross output in 2005 dollars (real gross output) for the major sectors. In general, the component of GDP originating from a state sector is influenced by the national counterpart, aggregate state demand as represented by total real personal income, and competitive factors such as the relative tax burden and the relative wage rate. U.S. output and state total personal income are positively related to output. Typically, a negative relationship exists with the relative tax burden variable as higher state and local taxes reduce output. A lower relative wage rate tends to increase investment and production. Total GDP is obtained through the use of an identity that sums up each sector's output. The general functional form of the output equation is:

State sector real output = F(U.S. same sector output, relative sector wage rate, relative tax burden, …)

For sectors such as trade and finance, insurance, and real estate, and some of the services providing sectors, the state and/or national real personal income could be a better driving force of the output variable because internal demand tends to play a stronger role. The final selection of independent variables for the output equation depends on model fitness and is therefore determined empirically. Use of state real

personal income as the driving variable introduces more feedback effects in the model through the output-employment-income relationship.

Employment Block. This block models demand for labor. Each sector's wage and salary employment is derived from its real gross output and real wage rate. Theoretically, real gross output should be positively related to employment, while the real wage rate has a negative relationship. The total state wage and salary employment is obtained as the sum of the employment for each sector. The general functional form of the employment equation is:

State sector wage and salary employment = F(Same state sector real output, real sector wage rate, …)

Unemployment Rate. State unemployment rate is typically a function of the U.S. unemployment rate and total state employment or the change in total state employment. The state unemployment rate is positively related to the U.S. unemployment rate and negatively related to the level of state employment or the change in total state employment, as rising employment creates additional aggregate demand generating downward pressure on unemployment. The general functional form of the unemployment rate equation is:

State unemployment rate = F(U.S. unemployment rate, change in or actual state total employment, …)

Wage Rates. Each sector's wage rate is explained by the corresponding U.S. sector wage rate and the state unemployment rate. While the state wage rate has a tendency to move together with the U.S. wage rate, its rise can be tempered by a high state unemployment rate. The general functional form of the wage rate equation is:

State sector wage rate = F(Corresponding U.S. sector wage rate, state unemployment rate,…)

Income Block. Wage and salary income is obtained by multiplying wage and salary employment by the wage rate for each sector and then summing up across the sectors. Other income categories such as dividends, interest, and rent; transfer payments; other labor income; proprietors' income; and adjustment for residence are driven by their national level counterparts. The general functional form of the income equations are:

State income category = F(Corresponding U.S. income category, …).

Total personal income is the sum of total wage and salary income and the other income categories. Very often total personal income, deflated by the GNP price deflator, is used to drive the output variables of such sectors as construction; transportation, communication, and public utilities (TCPU); finance, insurance, and real estate (FIRE); and services.

National Economy Assumptions for Economic Forecast

The following exogenous assumptions from IHS Global Insight were used for the forecasts in this study:

- Real GDP growth will average 2.5 percent per year for 2014 through 2040.
- The outlook for inflation remains moderate. Consumer price index (CPI) inflation will average 2.0 percent per year over the forecast period. Core inflation will average 2.0 percent.
- Nonfarm business productivity growth averages 1.9 percent over the forecast period.
- The current-account deficit is negative through 2024. At present, the current-account deficit is approximately $509 billion, but it is expected to improve over the forecast period.
- Oil prices as measured by the West Texas Intermediate crude will continue to rise over the forecast period.
- The labor market improves over the forecast period, with the unemployment rate averaging 5.3 percent.
- The federal budget continues to run a deficit throughout the forecast period, currently at $413 billion. It is expected to improve slightly over the forecast period.

Alabama forecasts were made for the manufacturing sector of the state, including these industries:

Industry	NAICS
Manufacturing	3110-3399
-Nondurable Goods	
Food Products	3110
Textiles and Products Mills	3130-3140
Apparel	3150
Paper	3220
Printing and Related Activities	3230
Petroleum and Coal Products	3240
Chemicals	3250
Rubber, Plastics	3260
-Durable Goods	
Wood Products	3210
Nonmetallic Mineral Products	3270
Primary Metals	3310
Fabricated Metals	3320
Machinery	3330
Computer and Electronic Products	3340
Electrical Equipment and Appliances	3350
Motor Vehicle Body, Trailers and Parts	3361-3363
Other Transportation Equipment	3364-3369
Furniture and Related Products	3370
Miscellaneous	

Baseline economic forecasts for each of the 67 counties are provided in the tables included in the Excel workbook. GDP at the county level is also calculated in constant 2005 dollars. County level forecasts are driven by both historical trends and recent developments. The GDP for each county was forecasted first, with most county employment forecasts based on the county level GDP forecasts. The economic forecasts take into account IHS Global Insight forecasts of annual national economic indicators, such as GDP, consumer spending, and industrial production indices through 2040, and the state level forecasts.

The county level econometric models provide baseline projections under certain key assumptions, primarily based on historic trends and economic growth. County level economic forecasts (both for GDP and payroll employment) were made for the following two-digit sectors of the economy and are provided in the tables included in the workbook.

NAICS	Total GDP and Employment
11	Agriculture
21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale trade
44-45	Retail trade
48-49	Transportation and warehousing
51	Information
52	Finance and insurance
53	Real estate and rental and leasing
54	Professional, scientific, and technical services
55	Management of companies and enterprises
56	Administrative and waste management services
61	Educational services
62	Health care and social assistance
71	Arts, entertainment, and recreation
72	Accommodation and food services
81	Other services, except public administration
	Government and government enterprises

Population Projections

County Population Projections

Population projections at the county level are generated using an in-house cohort-component model developed by the Center for Business and Economic Research (CBER). The model is driven by measured demographic change including population growth (or decline) between 2000 and 2010 as well as recent population estimates and birth and death rates. Any remaining population change is assumed to be due to migration. Net migration is calculated as the residual between the county's 2010 Census count and its 2000 tally after adding births between 2000 and 2010 and subtracting deaths. Announced changes in group quarters population and permitted and ongoing real estate developments are also taken into consideration.

Assumptions about future migration trends are key factors in the projections process. Age groups which have been experiencing strong in-migration are unlikely to see in-migration continue at the same rate, so migration expectations for these cohorts are generally dampened during each five-year projection period. Similarly, age groups having more residents move out than in will likely not experience the same level of out-migration in the future. The demographics of aging will naturally come into play to dampen population growth, with the number and percent of population 65 and over increasing rapidly as the baby boom generation enter this age group from 2011 through 2029.

Since recent population estimates data are available, population projections have been modified to account for the trend between April 1, 2010 and July 1, 2013 using Census Bureau estimates. Annual rates of change at the county level were examined for this time period. Since these rates were quite variable over the three years for many counties, the average of the two highest rates of annual growth (or lowest rates of decline) was used in the projections model, which works in five-year increments.

Census Tract Population Projections

Population projections were then developed for the 1,181 census tracts in the state. In order to account for changes in tract geographies between the 2000 and 2010 censuses, population data from the Longitudinal Tract Data Base (LTDB), developed at Brown University, were used. This project calculated data equivalencies for prior Census periods in terms of the 2010 tract boundaries. Hence, matching population and household data for 2000 and 2010 can be obtained to drive the tract-level projections.

Two separate series of projections were initially produced for each tract. Each forecasts total population in five-year intervals from 2015 to 2040. The constant proportion

method assumes that the non-group quarters[1] population of a tract grows at the same rate as the previously projected non-group quarters population of the county. Thus, an area keeps almost the same proportion of the county's total population through 2040. The group quarters population of each census tract is assumed to remain constant at the number of group quarters residents counted in the 2010 census (except for significant known changes between 2010 and 2013). A second, or growth rate factor, method is based on the census tracts' growth rate from 2000 to 2010. This growth factor is multiplied by the previously projected county growth rate for each five-year interval to yield a projected growth rate for the tract in that interval.

Studying the results of the two series of projections developed above revealed that the constant proportion method ignored recent growth trends, which often vary widely among census tracts in a given county. On the other hand, the growth rate factor method sometimes resulted in rapidly escalating growth or decline. Consequently, for most areas, the projections from the two methods were averaged for each five-year interval to yield the preliminary projections. The averaging process helped pull in extreme rates while incorporating both recent subcounty and county growth rates and the county total population projections.

These preliminary results were then modified to dampen trends of very rapid growth or decline and to take into account recent socioeconomic data and developments. In order to fine tune the preliminary projections, extensive data was compiled for the Census tracts. The following variables were included in this analysis:

Census Bureau Data

1. Change in the population between 2000 and 2010.
2. Age of the housing stock from the 2008-2012 American Community Survey (ACS), looking for indications of recent construction.
3. Size of the tract land area in square miles and persons per square mile in 2010.
4. Median household income in 2008-2012 from the ACS.
5. Civilian labor force, employment, and unemployment for 2008-2012 from the ACS.
6. Population living in group quarters for 2010 and, whenever relevant, for 2000.
7. Building permits by place for 2010-2013.

Non-Census Data

8. Location of residential subdivisions with available building lots.
9. Approved development where construction is anticipated.

Finally, the tract-level projections for each county were controlled to sum to the previously-projected county total population in each five-year interval from 2015 to 2040.

[1] Group quarters include institutional populations such as correctional facilities, nursing homes, and mental hospitals as well as non-institutional dwellings such as college dormitories, military barracks, group homes, and shelters.

Appendix C

“Estimates of Future Agricultural Water Withdrawal in Alabama”

This appendix contains the above titled report produced by the Auburn University Water Resources Center (AUWRC) through a grant by the Office of Water Resources (OWR).

The report provides county and HUC8 (subbasin) level forecasts for Alabama agricultural water withdrawals in five-year intervals from 2010 to 2040. AUWRC developed specific numeric county and subbasin level forecasts of agricultural water withdrawals based upon extrapolations from historic time series data and from long-range agricultural predictions about future changes in Alabama agricultural water use.

Auburn University Water Resources Center

Estimates of Future Agricultural Water Withdrawal In Alabama

Prepared for: Alabama Office of Water Resources
Prepared by: Samuel R. Fowler, Ph.D.; and Donn Rodekohr

February 20, 2015

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OBJECTIVE

The Alabama Office of Water Resources contracted with the Auburn University Water Resources Center to develop county and HUC8 watershed level long-range forecasts of Alabama agricultural water withdrawals. The Auburn University Water Resources Center developed specific numeric county level and watershed level forecasts of agricultural water withdrawals based upon extrapolations from historic time series data and from long-range agricultural predictions about future changes in Alabama agricultural water use.

This objective was accomplished in collaboration with other scientist from the University of Alabama in Huntsville who used remote sensing data to identify those areas in Alabama that are currently being irrigated and to estimate the acreage irrigated. Having access to the additional information from the UAH work allowed the AU Water Resources Center to do a more rigorous analysis of the water use for irrigated agriculture.

DISCLAIMER

Forecasting by definition is the process of making statements about events whose actual outcomes have not yet been observed. Prediction is a similar, but more general term. Within the context of science, the term "prediction" is often used to refer to an informed guess or expert opinion. A science- based prediction may be inductively valid if the predictor is a knowledgeable person or expert in the field and is employing sound reasoning and accurate data. It is important to understand that the forecasts and predictions of agricultural water withdrawals for a specific county or watershed or for a specific commodity or agricultural use in this report should be interpreted as only as long-range trends relative to current withdrawals. It is impossible to know the precise withdrawal amounts for any specific future year due to all of the unknowns related to annual weather variations and climate change, as well as annual changes in production of specific commodities based on market demand. However, the water use trend forecasts and predictions in this report are the based on the best available information from many of the most knowledgeable individuals from whom information could be obtained.

When making long range forecast or predictions of any type it is advisable for the forecaster to provide appropriate disclaimers. Risks and uncertainty are central to both forecasting and prediction. Forecast and predictions of the type that we have been asked to provide have a very high degree of risk and uncertainty.

Future water usage in agriculture is subject to many variables and unknowns such as climate change, the cyclical nature of and longer term market variations for agricultural commodities, changes in technology, improvements in both plant and animal genetics, etc. Given these uncertainties that can increase exponentially over several decades.

In science it is generally considered good practice to indicate the degree of uncertainty for results and conclusions, however, it is not possible to provide a specific probability or confidence interval to the long-range forecasts and predictions being provided in this report. Again, the authors of this report want to emphasize that the forecast and predictions provided by the Auburn University Water Resources Center should be used only as general information about what is considered to the likely trends, and should not be considered as precise scientific findings.

DEFINITIONS AND TERMINOLOGY

The objective of this project is to provide useful county and watershed level forecasts and predictions about future water use by agriculture in Alabama. Although this objective seems unambiguous, it is understood that the agricultural water use forecast may have implications for water policy; therefore it is useful to establish and understand the definitions of a few key words and the meaning of some important terminology.

It is very important to understand that within the context of this report water refers only to surface and ground water. This is sometimes referred to as "blue water." Blue water is water that is in rivers, surface impoundments or aquifers. Blue water can be used for multiple purposes, and sometimes the uses are competitive and mutually exclusive. Essentially blue water is water that can withdrawn from surface or subsurface sources, and the forecasts in this report are specifically for water withdrawals, which is not exactly the same as total water usage in agriculture as explain below. In general, blue water is the water that can be managed and regulated via water policy.

The water use forecasts do not include the vast amounts of "green water" that is used by agricultural crops. Green water is the portion of precipitation on land that does not run off or recharges the groundwater but is stored in the soil or temporarily stays on top of the soil or vegetation. Eventually, this part of precipitation evaporates or transpires through plants as part of the hydrologic cycle. Green water is a very important component of the hydrologic cycle that can

only be used for plant growth (although not all green water can be taken up by plants, because their will always be evaporation from the soil and because not all periods of the year or areas are suitable for crop growth).

Green water cannot be easily regulated by policy and therefore is of less concern when forecasting water usage for policy purposes. However it is important for policy makers to be aware of green water because there is a potential for supplying a greater portion of the future water demands for agricultural crops through policies and best management practices that promote for the better storage and utilization of green water within the soil. Green water conservation can play an important role in helping to mitigate situations where water demands exceed water supplies.

The important point is that water forecasts for crop production may reflect only the very small amount of supplemental water provided through irrigation and does not reflect the total water needed for evapotranspiration, from planting to harvest for a given crop in a specific climate regime, when adequate soil water is maintained by rainfall and/or irrigation so that it does not limit plant growth and crop yield. Again, it is important to note that water withdrawals for irrigation are subject to large annual variations depending on annual weather conditions.

The term "agricultural water use" in the context of this report refers to the blue water used directly in the production of the commodity. Agricultural water use in this context refers to the exclusive direct consumptive use of local surface or subsurface water by agriculture. The agricultural water usage forecasts and estimates in this report does not account for the larger water footprint of the agricultural products. The water footprint is an indicator of freshwater use that looks at both direct and indirect water use. The water footprint of an agricultural product such as beef, poultry, grain, etc. is defined as the total volume of freshwater used to produce the commodity. Water use is measured in terms of water volumes consumed (evaporated or incorporated into a product) and/or polluted per unit of time. A water footprint can be calculated for a particular product. The water footprint is a geographically explicit indicator, showing not only volumes of water use and pollution, but also the locations. It is important to understand that the water footprint of Alabama's agriculture is much larger than the quantity of water use reflected in this report. For example the water footprint of Alabama's poultry sector would also include the amount of water required to produce the feed grain that is imported from outside of Alabama. Based on published water footprint coefficients the estimated water footprint of Alabama's current poultry and egg production is:

5.7 billion pounds of chicken = 2.6 trillion gals water

2.6 billion eggs = 138 billion gals water

The above numbers equate to 8.5 million acre ft. of water, or more than 4X times the amount of water storage in all of Alabama Powers 13 reservoirs. Which is much greater than the in-state water withdrawal of the poultry and egg sector.

EXTRAPOLATION AND INTERPOLATION

It is important to understand that the specific county and watershed level forecasts provided in this report are a function of extrapolation. Extrapolation is the process of estimating, beyond the original observation interval, the value of a variable on the basis of its relationship with another variable. The method of extrapolation selected was based on several factors including knowledge of the process that created the existing data points, available time and financial resources allocated for the project. Extrapolation means creating a tangent line at the end of the known data and extending it beyond that limit. Again it is important to point out that extrapolation is subject to great uncertainty and a high risk of producing meaningless results.

GENERAL METHODOLOGY

Before explaining the specific methodology used for developing the forecasts and predictions in this report it may be useful to make some general comments about methodologies in general.

Quantitative forecasting models are used to forecast future data as a function of past data; they are appropriate when reliable past data are available. These methods are usually applied to short- or intermediate- range decisions. Since historic data on water usage by agriculture in Alabama is available, it is possible to do quantitative forecast. However, it is important to point out the risks and uncertainty issues associated with long-range forecasting as explained in the disclaimer section of this report.

It is also important to point out that although there is historic agricultural water usage data for Alabama for several decades dating back to 1985, the data comes from different sources (USDA, USGS, Alabama OWR, etc.) and was derived using different methodologies. In some cases the methodology used with a specific agency may have evolved over time as well. Therefore, Alabama agricultural water usage data from one source is often not consistent with data from another source, and data from a specific source for one time period may not be comparable to data from another time period. This creates very serious issues of using time series data to statistically extrapolate future demands. There was also a lot of missing data point in the existing data for many of the earlier years, and the data for one year in particular (2000) appeared to be very different from all other years which made it extremely suspect.

This concern was discussed with the Alabama Office of Water Resources, and it was concluded that the official published 2005 and 2010 agricultural water withdrawal data from OWR would be used. While this resolved the issue of consistency, it provides only two reliable historical data points from which to make statistical future extrapolations. Given the lack of reliable quantitative data, much emphasis was placed on the use of qualitative data in the form of expert predictions to validate the forecasts.

Qualitative forecasting techniques are subjective, these are generally predictions based on the opinion and judgment of experts. Qualitative forecasting techniques are appropriate if:

a. Long-term reliable past data are not available, as is this case, or
b. There are social or economic influences that will likely effect future values which are not reflected in the historic data. This is explained in more detail later in this report.

Forecasting methods can be greatly improved if it is possible to identify the underlying factors that might influence the variable that is being forecast. For example, including information about climate patterns such as more frequent droughts might improve the ability of a model to predict future water demands. Or, underlying factors about increased demand for agricultural products and the comparative and competitive advantage that Alabama might have in supplying those demands could help to improve the long range forecasting of water usage in agriculture. With that in mind, we identified faculty at Auburn University and other Universities to solicit predictions about future changes in various sectors of Alabama's agriculture examined in this report. Qualitative forecasting methods, specifically the input from knowledgeable experts can be very valuable in making long-range predictions, and have been used in this report.

PREDICTIONS AND EXPERT OPINION

The predictions are based on the expert opinions of selected Auburn University faculty and Extension specialists in the disciplines of Agricultural Economics, Agronomy, Biosystems Engineering, Aquaculture, Animal Sciences and Poultry Science. The selected faculty was asked to share their professional opinion about whether the methods proposed for this study are appropriate. They were also asked if they were aware of any better data or information on water usage/demands for various segments of Alabama agriculture; and to provide their insight and expert opinions about future trends in water usage for various segments of agriculture in Alabama.

Input and expert opinions were solicited from the following faculty:

Name	Department	Commodity
Dr. Walter Prevatt	Agricultural Economics	Beef Cattle
Dr. Eugene Simpson	Agricultural Economics	Poultry
Dr. Deacue Fields	Agricultural Economics	All Commodities
Dr. Samuel Fowler	Agricultural Economics	Irrigated Crops
Dr. Wayne Greene	Animal Science	Livestock
Dr. Lisa Kriese Anderson	Animal Science	Beef Cattle
Dr. Russell Muntifering	Animal Science	Beef Cattle
Dr. Frank Owsley	Animal Science	Livestock
Mr. Robert Spencer	Animal Science	Goats and Sheep
Dr. John Jensen	Aquaculture	Aquaculture
Dr. Jesse Chappell	Aquaculture	Aquaculture
Dr. Terry Hanson	Aquaculture	Aquaculture
Dr. John Fulton	Biosystems Engineering	Irrigated Crops
Dr. Joe Hess	Poultry Science	Poultry
Dr. Donald Conner	Poultry Science	Poultry
Dr. John Blake	Poultry Science	Poultry
Dr. Sacit Bilgili	Poultry Science	Poultry

Poultry Predictions

Dr. Joe Hess said that Alabama's poultry industry is relatively mature and there is very little talk about significant expansions or new operations coming into the state. The water use focus within the poultry sector is on conservation and using more water collected through catchment systems. Joe's feeling is that based on the underlying causal factors water use in poultry sector will probably remain fairly constant into the foreseeable future.

Dr. Eugene Simpson suggested that another method of calculating water usage in poultry production

would be to calculate it on a broiler house unit basis rather than a per bird basis. Dr. Simpson provided the following water usage estimates for Alabama's poultry sector:

a) Drinking water = 3 billion gals annually
b) Cooling = 6 billion gals annually
c) Processing = 12 billion gallons
d) Total = 21 billion gals annually

Recent data indicates that a typical 40 ft. X 500 ft. broiler house using between 450,000 and 490,000 gallons per year.

Dr. Sarge Bilgili stated that either the "math" provided in a similar forecasting report by the University or Georgia, or Dr. Simpson's approach would work to estimate how much water poultry will consume, based on total sq. ft. of grow-out area and bird market weight. Estimating the additional water use through cool cell and foggers may be little more challenging. As much as 1/2 of the water use on a broiler house may be used by the cooling system in peak summer. I have heard estimates of about 20% per year additional water use per house when averaged across all seasons.

Dr. Bilgili also said that predicting the next 30 years is even harder. Dr. Bilgili said that extrapolating future growth in Alabama's poultry sector based on the last 3 decades growth would be a mistake. The phenomenal expansion rate the broiler industry experienced during this period is not likely to continue! Dr. Bilgili feels the future trends in Alabama's poultry industry will be characterized by stable broiler numbers, increasing market weights, and improvements in housing facilities.

The consensus opinion from AU poultry faculty is that future water usage in the poultry industry is not likely to increase much if any and may in fact decrease due to more efficiency in facilities.

Small Ruminants Predictions

Mr. Robert Spencer from Alabama A&M University said that he felt the Georgia daily water use coefficients for goats and sheep are valid for Alabama valid for adult animals.

Mr. Spencer was not aware of any studies on trends for future changes in the number of sheep or goats in Alabama. He stated that he has not seen any recent estimates on sheep in AL (given their low numbers, Ag Census does not count them). Based on 2012 data from NASS goat numbers are lower than they were in 2007, a decreasing trend that began in 2009. Mr. Spencer recently wrote an article using data provided by Alabama Agricultural Statistics Service courtesy of Bill Weaver. In that article he makes the case that the recent decline in goat and sheep numbers in Alabama can be attributed to the

droughts beginning in 2007.

Mr. Spencer stated that based on recent observations he believes numbers may experience a modest increase over the next few years due to interest from hobby farmer types, but limited demand and limited profitability for commercial production of small ruminants is not likely to support any substantial increase in inventories for the near future. Mr. Spencer does not anticipate any significant increase in water usage by the small ruminant sector of Alabama agriculture.

Beef Cattle Predictions

Dr. Walt Prevatt said Alabama has closely followed the national trend in U.S. Beef Cow Inventory, which peaked in 1975. Since then we have seen significant increases and decreases. However, since 1975 the trendline suggests a smaller inventory over time.

His thoughts are that we will see small increases and decreases in inventory numbers as market prices and weather help determine profit levels. Inventory increases as profit levels increase and decreases as operations become unprofitable. Dr. Prevatt stated that he thinks the trend will be downward sloping over the next couple of decades due to high input costs, reduced pasture acreage, and low levels of profit (not sufficient to compete with alternative uses of rural land). The consumer today is voting more for other consumptive items (entertainment, cell phones, etc.) than for beef. Hence the sharp decline in the demand indexes for beef since the mid 70s.

Dr. Prevatt thinks we lack the resources and level of profitability to see robust expansion. Based on his assessment of the beef cattle situation it appears unlikely that water use by the beef cattle sector will increase significantly in the foreseeable future.

The predictions on future Alabama agricultural water usage trends are very insightful, and provide good information about future water use in agriculture in general terms, but they do not provide the county or watershed level quantitative data that we are seeking.

METHODS USED TO DERIVE SPECIFIC COUNTY AND WATERSHED QUANTITATIVE FORECASTS

As previously explained after discussions with the Office of Water Resources it was agreed that the only two historical data observations in which we have great confidence are the ones published by OWR for

2005 and 2010. Therefore these two observations formed the basis for the numerical quantitative forecast for future years. Two points define a line. There is no error or curvature associated with a line defined by two points. Water use values from OWR define two points and a line, which may be used to predict future water use values. Producing a forecast trend line from two points is highly risky and must be based on the following assumptions or known facts:

1. Methods of obtaining water withdrawal data were consistent for both years;
2. Water withdrawal values for both years are accurate and reflect reality;
3. Differences between the two years represent accurate longer-term trends;
4. The water use increase/decrease will be continuous and constant for the forecasted period;
5. Future agricultural production and land use development patterns will follow current agricultural and current land use development patterns for the forecast period; and
6. Slope of the line defined does not produce absurdly unreasonable or impossible long-term projections based on available water supplies and/or other constraints.

Since the data for 2005 and 2010 are OWR data we assume number 1 and 2 to be true in all cases. Assumptions 3 through 4 are risky assumptions which are impossible to prove, but must be understood as the basis for the forecasts. Assumptions 5 and 6 were validated as much as possible by seeking expert opinion and predictions from Cooperative System field staff field and by comparing the long range forecasts to prior research finding regarding potential for expansion of agricultural production for specific geographic regions.

Assumptions 5 and 6 were also addressed by comparing county-based information with HUC 8 based information. All OWR data were collected and reported on a County basis. OWR desired to have water use data reported by Hydrologic Unit Code level 8 (HUC 8). The boundaries of the two systems rarely coincide. To ensure that county water use values were properly distributed to HUC 8 units we extracted respective land use categories from the CDL, NLCD, golf course locations, and UA-H irrigation sites and associated the HUC 8 drainage name. We then computed the area distribution of that land use within each HUC 8 relative to each county. The use specific distribution by HUC within County was used to allocate water use values from county readings to the HUC 8 areas within each county

If all assumptions are true or can be accepted it is possible to project water use values to the year 2040 with some degree of certainty. However, if one or more of the assumptions are not true, then the projected value must be altered subjectively. Subjective estimates must be based upon information from ancillary data or personal knowledge of the region.

Methods to project water usage to the year 2040 varied for each water use category. Golf course and aquaculture were easily located, spatially correlated with OWR withdrawal sites, and had extensive, reliable, fine grained ancillary data upon which to base subjective estimates. Irrigation, which includes row crop, orchard, sod, and nurseries, were not as well correlated with OWR withdrawal sites.

VALIDATION OF FORECASTS

Ancillary data provided considerable context for making subjective projections, but local knowledge was considered to be invaluable. We contacted six Alabama Cooperative Extension System Regional Agronomists and conferred with them concerning the potential for irrigation development within each county. The regional agronomists reviewed the ancillary data we provided but also considered the local economy, the age and mindset of the agricultural community, farm size and ownership, and market opportunities. In some cases the regional agronomists identified some significant issues with the projected trend lines, in other cases the information was confirmed and the trend line validated. Livestock water use estimates were confirmed as-is. We had no ancillary information from which we could base making alterations of the trend lines. Personal communications with various faculties at Auburn University as explained earlier in this report were also used to validate long-term forecasts.

To ensure that the critical pieces of information that we used to underpin our subjective estimates were as accurate as possible, we used 1-meter resolution NAIP imagery to interpret the land use that was designated by the OWR data. We also used NAIP data from appropriate years to validate Crop Data Layer classifications (aquaculture, sod, and horticulture nurseries), GAP data (aquaculture), and golf courses. The validated areas were spatially joined with county and HUC 8 polygons to determine land use distribution by HUC 8. Validated locations were used to make subjective judgments about the potential of a particular land use to change by the year 2040.

Irrigation Forecasts

Without doubt the area of greatest concern and uncertainty regarding agricultural water withdrawal forecasting and possible future water policy is irrigation. There is much interest in increasing irrigation of agricultural crops in Alabama, and there are recent and current incentive programs to encourage the increase in irrigation of agricultural crops. Water use data for irrigation includes irrigation withdrawals for row crops, sod production, commercial horticultural uses (nurseries, grow hoops), orchards, and commercial fruit and vegetable production. The water source may be either surface or groundwater but is always fresh, never saline water. The water can be distributed with a sprinkler

system, fixed set, lateral move, center pivot, volume gun, drip, or buried tape. Irrigation does not include domestic and urban landscape use, golf course or recreational site use. Not all irrigation sites are readily visible with aerial photography, namely drip and buried tape systems and orchards. Irrigation use specific distribution by HUC within each county was estimated by computing the sum of long-term croplands, irrigation sites, and sod production areas.

We prepared tables and maps showing current levels of irrigation relative to potential expansion areas for each county. Estimates for irrigation growth/retraction by county were developed based solely upon the available digital information from co-researchers at UAH. Error brackets were assigned to the estimates such that estimates for 2015 had a much lower error than estimates for 2040. We used a simple incremental system starting at 10% error in 2015 incrementing to 60% error by 2040. This created a conical high/low bracket around the estimate.

Table 2. Example Irrigation water use projection table, Barbour "straw-man" values.

	Irrigation		0.10	0.20	0.30	0.40	0.50	0.60
County	2005	2010	2015	2020	2025	2030	2035	2040
		High	2.34	2.50	2.66	2.80	2.94	3.07
Barbour	**3.40**	**2.17**	**2.13**	**2.08**	**2.04**	**2.00**	**1.96**	**1.92**
		Low	1.91	1.67	1.43	1.20	0.98	0.77
% growth		-36.2%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%

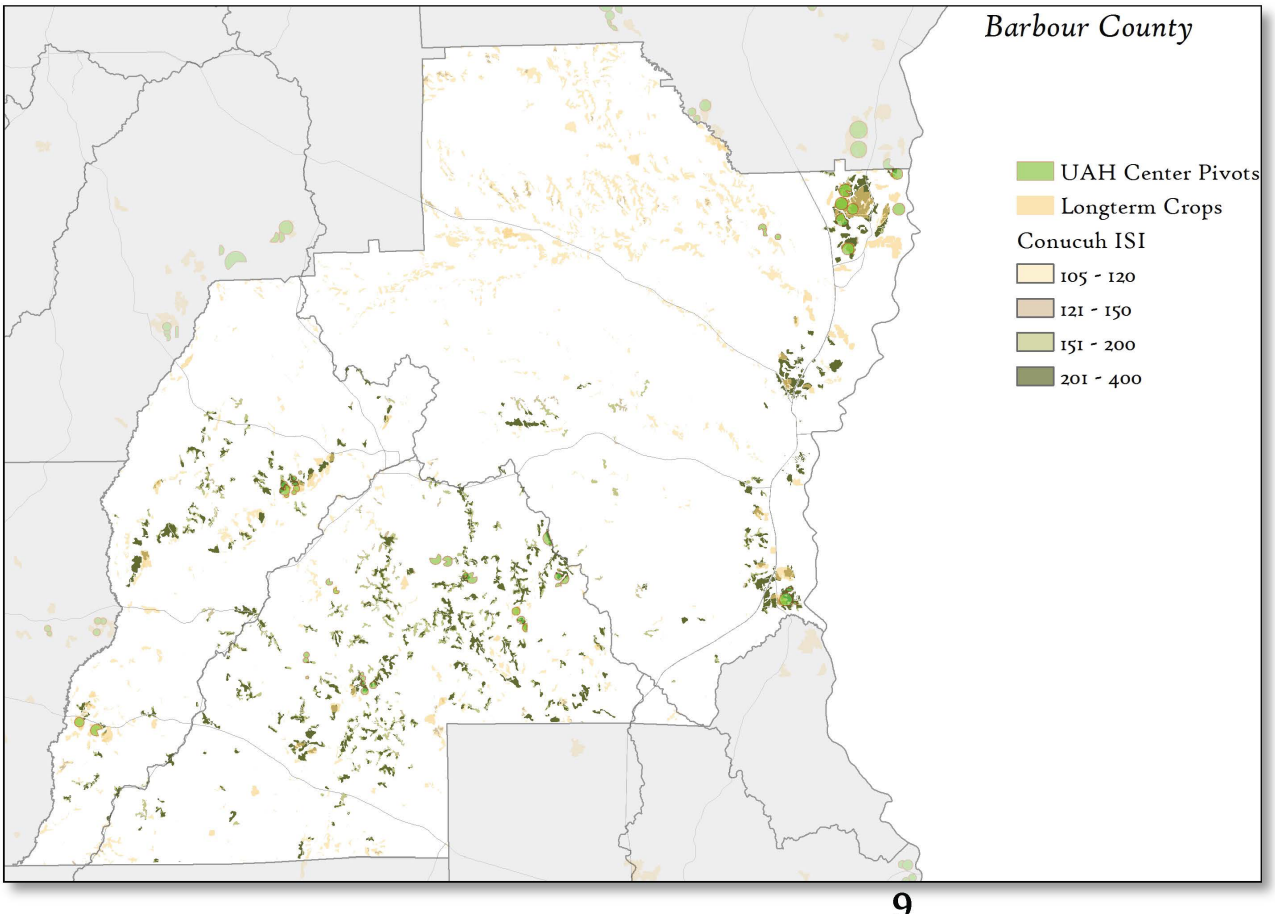
Table 2 above is an example of the initial "straw man" estimation values for Barbour County. The values for 2005 and 2010 are from OWR and are fixed. The bottom line (% growth) reports the relative change of growth from the previous reporting period.

Also included was a small table of ancillary information to estimate the potential for growth in irrigated acres. Cropland area is the long-term croplands for Barbour County. ISI>200 is the acres of Barbour County that has a high Irrigation Suitability Index (ISI), representing the areas that have the highest probability of sustainable irrigation implementation. Irrigated area is the acres of center pivot irrigation systems in this county while Sod area is the acres of validated sod acres from the CDL in this county. These areas do not necessarily overlap, although they commonly do. Irrigation is most likely to be developed on existing cropland as opposed to clearing timber. We have assumed that 70% of the cropland area would be a functional ceiling of development for irrigation. Irrigation acres can exceed this theoretical threshold if existing irrigated sites are not cropland. Irrigated pasture, sod, or vegetables would not be included in the croplands total.

Croplands were not properly identified in the CDL in 3 or more years thus removing them from the long-term cropland category. Irrigation development is taking place in non-cropped areas.

High ISI acres do not necessarily coincide with croplands. Some irrigators may recognize the opportunity to develop irrigation on some non-cropped areas.

The ISI was computed using NRCS SSURGO (county soils digital data). While these data are the most modern soil surveys available, some counties were produced nearly three decades ago. Soil analysis techniques and personnel have changed over that time period. Thus there are some inconsistencies when comparing ISI across county lines. Thus, high ISI must be used as its name implies – an index of suitability. High ISI area can be a threshold for development if the high ISI acres are much less than cropland acres. In the example of Barbour County, High ISI areas are much greater than long-term cropland areas and is therefore not a limiting threshold.



The map of the Barbour County above shows irrigation sites, long-term croplands, and high ISI areas.

Examining this map may give some insight into the coincidence of these three irrigation factors, which may also be indicative of irrigation growth potential within a county. Examining the map of Barbour County please note that:

a. There are distinct differences among the three HUC 8 watersheds.
b. Croplands, irrigation, and ISI values are not equally distributed.
a. Three clusters of irrigation were detected, all in the Chattahoochee valley.
b. All seem to be nearly fully developed. Areas of High ISI are scattered, areas of long-term croplands are also scattered but not coincident with each other.
c. Several irrigated sod sites were noted as the isolated pivot systems away from the Chattahoochee valley.

Little potential was seen for expansion of existing clusters. Any irrigation development would probably occur independently of the clusters, somewhere in the area in the northern part of the county in the long-term croplands or in the southwestern portion in the high ISI area. Estimates for Barbour are reflected by the underscored estimates in the table below.

Growth Potential:	(acres)
Barbour Acres	578,540.7
Cropland area	4,671.7
ISI >200	13,986.4
Irrigated area	3,675.8
Sod area	185.6
% croplands irrigated	82.7%
% ISI irrigated	26.3%

Irrigation development is not constrained by only these factors, however. There are numerous social issues that are taken into account, including:

a. Land ownership and owner attitude;
b. Commodity prices, energy costs, interest rates;
c. Access to water; Climate and local weather patterns;
d. Tax structure and subsidy programs.

To assess social factors we contacted the six Regional Extension Agronomists in Alabama. They have the local knowledge necessary be able to take these social factors into account regarding the potential of irrigation development. The regional Agronomists who participated in this study were:

1. Kimberly Wilkins: Baldwin, Butler, Clarke, Conecuh, Escambia, Mobile, Monroe, and Washington counties;
2. David Derrick: Blount, Calhoun, Cherokee, Cleburne, Cullman, DeKalb, Etowah, Jackson, Marshall, and St. Clair counties;
3. Christy Hicks: Autauga, Chambers, Clay, Coosa, Elmore, Lee, Macon, Montgomery, Randolph, Russell, Talladega, and Tallapoosa counties;
4. Tyler Sandlin: Colbert, Fayette, Franklin, Jefferson, Lamar, Lauderdale, Lawrence, Limestone, Madison, Marion, Morgan, Shelby, and Winston counties;
5. Rudy Yates: Bibb, Chilton, Choctaw, Dallas, Greene, Hale, Lowndes, Marengo, Perry, Pickens, Sumter, Tuscaloosa, and Wilcox counties;
6. William Birdsong: Barbour, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston, Pike, and Russell counties.

They provided feedback on the initial irrigation estimates for each county and provided guidance for more appropriate values. Any issues with OWR data, irrigated site data, cropland data, or ISI data were noted and recorded on a table for each county.

Table 4. Example Irrigation water use projection table, Barbour county regional agronomist values.

	Irrigation		0.10	0.20	0.30	0.40	0.50	0.60
County	2005	2010	2015	2020	2025	2030	2035	2040
		High	3.06	3.90	4.78	5.75	6.81	7.97
Barbour	**3.40**	**2.17**	2.82	3.39	3.72	4.10	4.51	4.96
		Low	2.49	2.54	2.55	2.47	2.30	2.02
% growth		-36.2%	30.0%	20.0%	10.0%	10.0%	10.0%	10.0%

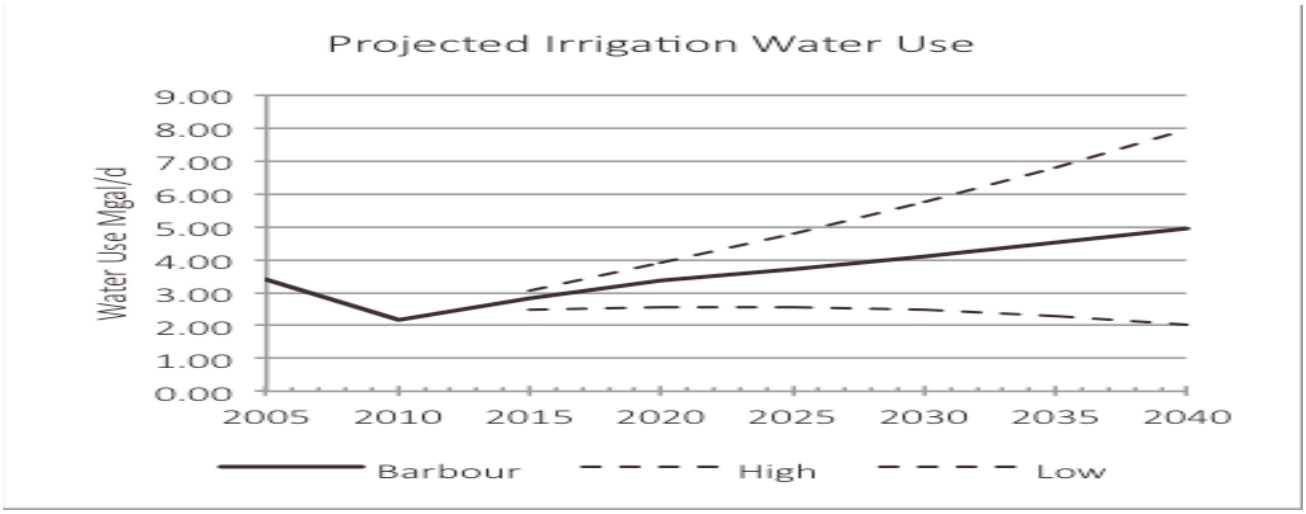
Table 4 above shows the values that were hammered out with William Birdsong. Along with altering the straw-man water use values, Mr. Birdsong noted:

a. Farm sizes are getting larger, field sizes are getting larger, farming patches are getting large enough to support an irrigation system;
b. Commodity prices are improving giving farmers more impetus to install irrigation;
c. New generation of young farmers are taking over and are more technologically aggressive;

d. Access to water is a major issue in SE Alabama.
e. Cost of well drilling is a major impediment.

In Barbour County the decrease of water use from 2005 to 2010 cannot be explained. He knew of new irrigation systems coming on line in that time period.

His assessment of Barbour county was that irrigation water use for 2015 should be increased approaching or exceeding 2005 levels by no later than 2020 followed by steady increases as new lands are developed. He foresaw new irrigation systems being placed in the SW portion of the county in the high ISI area. Figure 1 below shows a graph of the projected water use for Barbour County with high/low estimate brackets.



The interview procedure was completed for all counties for each Regional Extension Agronomist and their projections and comments were recorded on the worktable for each county. In some cases it was more representative to increase water use values incrementally by a discrete water use value than to estimate a percentage growth of irrigation. We estimated that a new center pivot system with enough towers to irrigate 160 acres (1/4 section pivot) could apply as much as 0.5 Mgal/day of water. This is probably a bit a high but it should capture the worst-case scenario. Actual use with best management practices will probably be closer to 0.35 Mgal/day but will vary depending upon weather conditions, crop being raised, soil drainage, and availability of water. For the purposes of this study, we used a value of 0.5 Mgal/d to represent the addition of one new center pivot.

We used the incremental method when the regional agronomist knew the count of additional irrigation systems definitively for a time period. A couple of counties had very low water use values (less than 0.1

Mgal/d) but had one or more center pivots identified by UA-H. In those cases we incremented the 2015 irrigation water use by (number of identified systems * 0.5 Mgal/d) to obtain the projected water use. If the regional agronomist foresaw the potential for more growth a percentage was applied to the 2015 value.

County water use projections were incorporated into a statewide worksheet with a table for each county. A subsection of this worksheet summarized HUC 8 water use values subdivided by irrigation use specific percentages by county by HUC.

Summary tables showing the projected values, high and low values for both County and HUC 8 areas were computed. These tables are included in the separate data file provided to OWR.

Irrigation water use values by county were joined to a county shapefile. Attributes for the shapefile include the county name, high/estimated/low irrigation water use values for 2015, 2020, 2025, 2030, 2035, and 2040. The same procedure was used to create Irrigation water use values joined to a HUC 8 shapefile.

Aquaculture Forecasts

Water use data for aquaculture includes withdrawals for fish and shellfish production, cleaning, and transport. The water source may be either surface or groundwater usually fresh, but may be saline water groundwater. Most aquaculture facilities are excavated impoundments that may be rectilinear and interconnected with other ponds. The ponds may range in size from less than one acre to over 50 acres. Water can be a range of colors but the water quality is usually quite eutrophic to keep maximum production. Fish and shellfish are harvested by draining the pond to concentrate the fish into a collection basin. Drainage water is either recycled in other ponds, re-used in irrigation, or returned to the nearest stream. There are a few enclosed raceway systems in Alabama. These are commonly used for hatcheries and rearing stations but also offers a good future for fish production.

They are generally more efficient with water and have higher water quality than ponding systems. Pond aquaculture is commonly located Blackland Prairie soils which exhibit extremely low percolation rates. We found 59 OWR permitted sites designated for aquaculture. The Alabama GAP data appeared to do a good job of identifying aquaculture ponds. Numerous small, shallow, turbid, or highly eutrophic ponds may have been misclassified as aquaculture. NASS CDL data commonly misclassified aquaculture ponds as either bare soils (if the imagery was collected while the ponds were drained), wetlands, or open water. The CDL also misclassified sandy, turbid, or highly eutrophic open water in rivers and reservoirs as aquaculture.

To verify aquaculture acreages from both GAP and CDL we overlaid the classifications on NAIP imagery as near to the classification date as possible. What we found was that the total aquaculture

sites have changed little since 2000. We cleaned up the erroneous "flier" points in reservoirs and rivers. We used the GAP aquaculture class for Blackbelt counties as a baseline against which changes in 2005 or 2010 could be measured. There were a few instances where ponds were destroyed or obviously changed to something other than aquaculture. We also found a few instances where new aquaculture facilities were constructed in counties outside the Blackbelt.

Area values from the validated GAP and NASS CDL data were used to compute the aquaculture specific distribution with HUC 8 areas by county.

All of this is to say that aquaculture infrastructure is amazingly stable and will likely continue to be stable into the foreseeable future. The only major changes in aquaculture acres will be seen when producers adopt a raceway structure. That will be a slow process but will produce a slow but steady reduction in water use for aquaculture while maintaining the same level of productivity.

We believe that the market for aquaculture using conventional pond culture is saturated and don't expect to see increases in the number of aquaculture ponds, or in water withdrawal for aquaculture.

We constructed a county table for predicting aquaculture water use that was very similar to the tables used for irrigation with these notable exceptions –

- Lacking a table of "Ancillary data for Growth Potential" since no such ancillary data exists;
- Error associated with predicting future uses are much lower than with irrigation. Aquaculture is much less dynamic unless there is catastrophic failure in the market, which is unpredictable.

OWR water use data had several counties reporting small values for aquaculture water use for which we could not validate any aquaculture sites distinctive enough to appear on NAIP imagery. These could be cage culture sites in ponds or small minnow ponds raising baitfish. We projected flat-line growth for these activities since they are too small to detect. Also, this water use may not be transferred to a HUC 8 area if there was no verified aquaculture within that county.

County water use projections were incorporated into a statewide worksheet with a table for each county.

A subsection of this worksheet summarized HUC 8 water use values subdivided by aquaculture use specific percentages by county by HUC. Summary tables showing the projected values, high and low values for both County and HUC 8 areas were computed. These tables are included in the separate data file provided to OWR.

Aquaculture water use values by county were joined to a county shapefile. Attributes for the

shapefile include the county name, high/estimated/low irrigation water use values for 2015, 2020,

2025, 2030, 2035, and 2040. The same procedure was used to create Irrigation water use values joined to a HUC 8 shapefile.

Livestock And Poultry Forecasts

Water use data for livestock includes withdrawals for cattle, hogs, poultry, horses, sheep, and goats animal production, cleaning, and comfort. The water source may be either surface or groundwater. Livestock water uses are not necessarily associated with an identifiable land use with the exception of large feedlots. Feedlots will most likely be classified as barren, however. Livestock tanks can be excavated ponds that may be mistakenly classified as open water, bare ground, or aquaculture.

Poultry and swine water use is concentrated in houses and sheds specifically designed for concentrated production. Traditional satellite land use classification methods (GAP and CDL) are based upon a 30-meter cell size. Poultry and swine houses will commonly escape detection with that large of a pixel. The Alabama Poultry Association does have location information on all poultry production facilities but that information is closely held for food security reasons. Therefore, the only location based information about livestock water use is the OWR water permits data. There are 34 permitted water withdrawals that issued to names that are readily identifiable as a livestock producer.

We do not have sufficient data to provide a robust distribution of livestock specific water use by HUC 8 by county. For the 2005 Water Use Report, OWR documented that "Water withdrawals for livestock by sub-basin were determined by applying GIS techniques. The sub-basin boundaries were superimposed on the county boundaries to create a sub-basin/county areal unit. Each sub-basin/county unit represents a percent of the sub-basin area within a county. Surface-water and ground-water withdrawals were distributed among the sub-basin/county units based on the assigned areal percentage." We used the same method for determining livestock sub-basin distribution.

As with aquaculture, we believe that the market for livestock is somewhat stable. Discussions with Livestock experts noted that there is a long-term downward trend for beef and dairy cattle within Alabama. Hogs are thought to be holding steady. Poultry production is stable and is expected to continue a near current levels for the foreseeable future. As a side note, it appears that the water requirements for the poultry sector may be underestimated in 2005 and 2010.

Water use conservation and reuse methods within the poultry industry have been improving and gaining acceptance. Even while the total poultry population may be increasing, the water use by the poultry industry will increase at a slower rate. Incremental increases in water use will occur if and when new poultry houses are constructed, which are dependent upon market demands.

We constructed a county table for predicting livestock water use that was very similar to the tables used for irrigation with the following notable exceptions:

- Lacking a table of "Ancillary data for Growth Potential" since no such ancillary data exists;
- Error associated with predicting future uses are much lower than with irrigation. Livestock is less dynamic than irrigation but more dynamic than aquaculture.

OWR water use data for livestock was projected for each county. County water use projections were incorporated into a statewide worksheet with a table for each county. A subsection of this worksheet summarized HUC 8 water use values subdivided by percentages by HUC.

Summary tables showing the projected values, high and low values for both County and HUC 8 areas were computed. These tables are included in the separate data file provided to OWR.

Livestock water use values by county were joined to a county shapefile. Attributes for the shapefile include the county name, high/estimated/low irrigation water use values for 2015, 2020, 2025, 2030, 2035, and 2040. The same procedure was used to create Irrigation water use values joined to a HUC 8 shapefile.

Golf Course Irrigation Forecasts

Water use data for golf course includes withdrawals for golf courses (greens, fairways, tee boxes, water hazards) and grounds surrounding the course and clubhouse that are irrigated. The water source may be either surface or groundwater but is always fresh. The water can be distributed with a sprinkler system, usually a buried fixed set. Golf course irrigation does not include domestic and urban landscape use, or recreational site use. Golf courses are readily visible in aerial photography, but may be a mix of open water, barren sand, trees, lawns, and open grasslands.

OWR provided a list of golf courses for 2005 and 2010 that included the name, address, and tier ranking and water use by month. Courses were assigned a water use tier based upon the amount of the course that was watered where –

- Tier 1 -- extensive watering including greens, fairways, tees and surrounding grounds;
- Tier 2 -- frequent watering of greens and tee boxes. There may be some fairway watering as well;
- Tier 3 -- essential watering of greens only.

We validated the golf course information to ensure the proper distribution of golf course water use in HUC 8 basins. Using the golf course name and/or address we collected the geographic Longitude/Latitude coordinate of each golf course (centering on the club house, if present) using Google Earth™. When a course was located we validated the existence of the course in 2000, 2005,

and 2010. Next we did a visual assessment of tier level. There had to be clear evidence of differences to alter the tier level assigned by OWR. Multi-course golf complexes were consolidated to one name to minimize replication under a different name in subsequent years. If a course could not be found it was deleted from the list. If a new course was identified we made our best effort to properly count the holes and assign a tier level appropriately.

Growth/retraction of golf course complexes by tier is shown in table 5 above. There was a major growth spurt for golf course complexes between 2000 and 2005. The economy was booming. The time frame from 2005 to 2010 was much more stable for Tier 1 courses but saw losses of five courses in Tier 2 and 3. The economy was starting to slump.

All this information was collected and stored in a geographic information system shapefile, which was spatially joined with a county spatial location and the HUC 8 spatial location.

Table 5. Number of golf course complexes detected by year and tier.

Tier	2000	2005	2010
1	21	28	28
2	151	167	164
3	46	51	49
Total	218	246	241

Incremental increases in water use will occur if and when new golf courses are constructed, which are dependent upon market demands and the economy. The Professional Golf Association (PGA) has made water conservation on golf courses a major issue. The US Open at Pinehurst #2 was a high profile example of the industry making every effort to illustrate that fairways and roughs can be more “natural” and un-watered and still be considered among the best in the world. It will be interesting to see if the sandy waste roughs are adopted in Alabama. If they are, water use for golf courses could be reduced significantly.

We constructed a county table for predicting golf course water use that was very similar to the tables used for irrigation with these notable exceptions –

- Lacking a table of “Ancillary data for Growth Potential” since no such ancillary data exists;
- Error associated with predicting future uses are much lower than with irrigation. Golf is less dynamic than irrigation.
- Water use changes should be marginally less (percentage decreases) as conservation practices are implemented on Tier 1 courses.

- Water use will increase incrementally in large steps if new courses are developed.

OWR water use data for golf was projected for each county. County water use projections were incorporated into a statewide worksheet with a table for each county. A subsection of this worksheet summarized HUC 8 water use values subdivided by percentages by HUC.

Summary tables showing the projected values, high and low values for both County and HUC 8 areas were computed. These tables are included in Appendix A.

Golf water use values by county were joined to a county shapefile. Attributes for the shapefile include the county name, high/estimated/low irrigation water use values for 2015, 2020, 2025, 2030, 2035, and 2040. The same procedure was used to create Irrigation water use values joined to a HUC 8 shapefile.

CONCLUSIONS

The analysis of OWR's Alabama's agricultural water withdrawal data from 2005 and 2010, along with the expert opinions and predictions of numerous agricultural faculty and Alabama Cooperative Extension System field staff and analysis lead to the following forecasts:

1. By 2040 overall combined Alabama agricultural water withdrawal for all areas examined in this report is forecasted to increase by approximately 15% (prediction range is -5% to +34%) over the 2010 level. The increase will be primarily a function of increased row crop irrigation.

2. The largest amount of increased water withdrawals will be for crop irrigation. The overall statewide water withdrawals for crop irrigation are forecasted to increase by approximately 110% (prediction range is -16% to +236%) of the 2010 levels. Given the recent state tax incentives and federal (NRCS) cost-share incentives, it is very likely that actual irrigated row crop acreage could increase by well over 200%, but efficiencies in the use of water for irrigation will improve as well which will reduce the water withdrawals on a per acre basis.

3. Water withdrawals for livestock and poultry are forecasted to decrease by slightly less than 7% (prediction range is from -36% to +26%) from the 2010 level. Some of this will be a function of reduced numbers of beef cattle, and a of improved water efficiency in poultry production.

4. Overall statewide water withdrawals for pond-culture aquaculture are forecasted to decrease by approximately 6% (prediction range is -22% to +11%) from the 2010 level. It is likely that aquaculture will change from the current pond culture to more emphasis on raceway culture, which will require less water.

5. Overall statewide water withdrawals for golf course irrigation are forecasted to increase by approximately 13% (the prediction range is -15% to +41%) over 2010 levels. The numbers of irrigated golf courses may increase by more than 13%, but this will be partially offset by improved efficiencies in water usage for irrigation.

It is important to note that the above forecasts are in agreement with the expert opinions and long-term water use trend predictions of the respective agricultural faculty and Extension field staff that were interviewed as part of this project.

While we can not provide any statistical confidence level for the above forecasts, we feel fairly confident that the overall trends in agricultural water use forecasted in this report are as good as can possibly be predicted given the available data and unknowns about the future.

Forecasting the changes for specific counties and watersheds is more difficult, but we have attempted to provide the best forecasts we can for those as well. Those specific county-level and HUC8 watershed level forecasts are presented in both tabular spreadsheet format and in maps, with graphs and diagrams showing projected future trends as well as the upper and lower limits of forecasted water withdrawals for irrigated crop production, aquaculture, livestock and poultry, and golf course irrigation.

APPENDICES, MAPS, GRAPHS AND DIAGRAMS

We created four county-level and four watershed level shapefiles containing the projected water use for different categories (irrigation, aquaculture, livestock and golf course irrigation) by time series. Each of these files were overlaid upon basemaps for Alabama and then shaded with a blue color intensity to illustrate both county-level and watershed level agricultural water use by category.

Due to the large number of pages, the appendix, including all maps, graphs and diagrams have been provided as separate data files within a single data directory to the Office of Water Resources for publication as deemed most appropriate.

EXPLANATION OF DATA USED TO DERIVE FORECASTS

Water Use Data

The Alabama Office of Water Resources (OWR) provided water use data for each county in Alabama for 2005 and 2010. OWR compiled the data for these two years in conjunction with the USGS using modern methodology and assumptions. Water use data from previous years were compiled using different methods and assumptions and were therefore not used. Water use categories were Irrigation, Aquaculture, Livestock, and Golf Courses where water was withdrawn from surface water or groundwater. Irrigation uses include row crops, horticulture, sod production, nursery production, and orchards. Aquaculture water use includes commercial food production use, fish hatcheries and rearing, transportation, and cleaning. Livestock water uses were compiled for all terrestrial animal forms for commercial or recreational purposes including cattle, hogs, poultry, horses, sheep, turkey, and quail. Golf course water use included water hazards, irrigation on greens, fairways, tee boxes, driving ranges, and any area under the ownership of the golf club.

Table 1. Sample of OWR water use data for 2005 and 2010 for Irrigation, Aquaculture, Livestock, and Golf course

	Irrigation		Aquaculture		Livestock		Golf	
County	2005	2010	2005	2010	2005	2010	2005	2010
Autauga	2.40	2.94	0.30	0.00	0.22	0.15	0.38	0.06
Baldwin	41.92	38.96	0.05	0.16	0.44	0.35	1.90	1.59
Barbour	3.40	2.17	5.91	2.43	0.35	0.38	0.19	0.19
Bibb	0.03	0.69	0.36	1.45	0.07	0.07	0.06	0.06
Blount	0.57	0.48	0.00	0.00	0.96	0.98	0.19	0.24

Table 1 shows a five county sample of water use data expressed in MGal/d. The two data points were used to compute the slope of a line that could project water use into future use. Appendix Table 1 shows water use for all counties.

Permitted Water Withdrawal sites

OWR has the responsibility to issue a permit to and monitor all water pumps that have the capacity to extract 100,000 gallons/day (gpd) regardless of the type of use. OWR provided a list of permitted

surface water intakes and groundwater pumps. Fields in the table included the following:

1. Type – Surface water or groundwater;
2. CertNum and SeqNum – certificate number of the owner, sequence number of the withdrawal site;
    a. Owner
    b. County
    c. Latitude and Longitude – expressed in decimal degrees;
    d. Active – active or inactive site;
    e. Aquifer (for groundwater withdrawals) or Source (for surface water withdrawals)

We added the following fields :

3. UnqID – a unique identifier for each entry that consisted of Type+CertNum+SeqNum.
4. WUtype – we assigned a water use type to each active permit by examining the owner name and geographic location.
5. WUtype names are Aquaculture, Crop, Golf, Hort, Sod, Orchard, Livestock, and Recreation.

We converted the active sites in the table into a spatial dataset based upon the geographic coordinates. We found numerous spatial errors such as sites located in Georgia, Mississippi, and the Gulf of Mexico, sites that were noted to be in one county but were located an a different county, sometimes quite distant, and sites that were noted as a specific water use type that were not located near anything that looked like that type of use. Those errors were noted in the spatial data with a validation code. Withdrawal locations were used to validate land use types described by other data, and conversely, land use data were used to confirm water withdrawal location and water use type.

Ancillary Data

Numerous other data sources were used to obtain a more precise location and extent of water use values from OWR. The water use data from OWR was at a county grain size. By using other data sets that have a finer grain size we can more accurately subdivide the county based water use data into HUC 8 groupings. Ancillary data we used to enhance and corroborate the OWR water use values included --

- Golf Courses of Alabama. A list of golf courses in the state of Alabama for 2005 and 2010 compiled by OWR. The list included the address, number holes, address, county, HUC 8 code, and the OWR estimated water use. We compared the two annual listings to ensure

consistent naming, tier ranking, and address. Next we used Google Earth to locate the courses and assign a geographic Longitude/Latitude coordinate in degree-minute-second format to ensure proper assignment to HUC 8 basin. We used historical National Aerial Imaging Program (NAIP) 1 meter resolution ortho imagery from 1998, 2006, and 2009, to validate the existence and tier rating of the golf course over the study period.

- Irrigation sites. Researchers at University of Alabama at Huntsville (UAH) had undergraduate students examine aerial photography from 2009, 2011, and 2013 to identify and delineate irrigation circles or other irrigation sites. Their product was a GIS map of pivot and volume gun systems that were clearly identifiable. They delineated approximately 119,000 acres of "crop circles" with this method. No attempt was made to see if these sites were active in previous years, thus these data area a reference of current irrigation development in a county. The data provide a spatially correct means of assigning irrigation development within a county and within a HUC 8 unit.

- National Agriculture Statistics Service (NASS) Crop Data Layers (CDL). The USDA, NASS Cropland Data Layer (CDL) is a raster, geo-referenced, crop-specific land cover data layer. CDL has a ground resolution of 30 meters. The CDL is produced using satellite imagery from the Landsat sensors collected during the current growing season. Agricultural training and validation data are derived from the Farm Service Agency (FSA) Common Land Unit (CLU) Program. The NLCD 2006 is used as non-agricultural training and validation data. The strength and emphasis of the CDL is agricultural land cover. Please note that no farmer

- reported data are derivable from the Cropland Data Layer. The purpose of the Cropland Data Layer Program is to use satellite imagery to (1) provide acreage estimates to the Agricultural Statistics Board for the state's major commodities and (2) produce digital, crop-specific, categorized geo-referenced output products. Classification accuracy is generally 85% to 95% correct for the major crop-specific land cover categories. (USDA, National Agricultural Statistics Service, 2013 Alabama Cropland Data Layer Metadata, USDA NASS Marketing and Information Services Office, Washington, DC.) We had CDL for 2008-2013.

- Alabama GAP data. The Alabama Cooperative Fish and Wildlife Research Unit at Auburn University began conducting a Gap Analysis Project (GAP) for the State of Alabama in August 2001. This Alabama Gap Analysis Project (AL-GAP), is part of a larger nationally sponsored GAP program administered by the U.S. Geological Survey (USGS), in which the main objective is to produce large-scale biodiversity and conservation assessments for native wildlife species

and natural land cover types. The product of this research was a 30 m spatial resolution land use classification that was used to refine and enhance croplands, irrigated areas, and especially aquaculture ponds.

- Long-term Croplands were derived from Crop Data Layers from all years. We extracted all agricultural crop class names from the list of land use types. Long-term croplands are defined as areas that were used for some type of cropping activity in four of the six year and had a minimum size of 20 acres. We identified ~ 736,000 acres of long term croplands in the state. Land owners and developers are most likely to install irrigation on lands that are in long-term croplands.

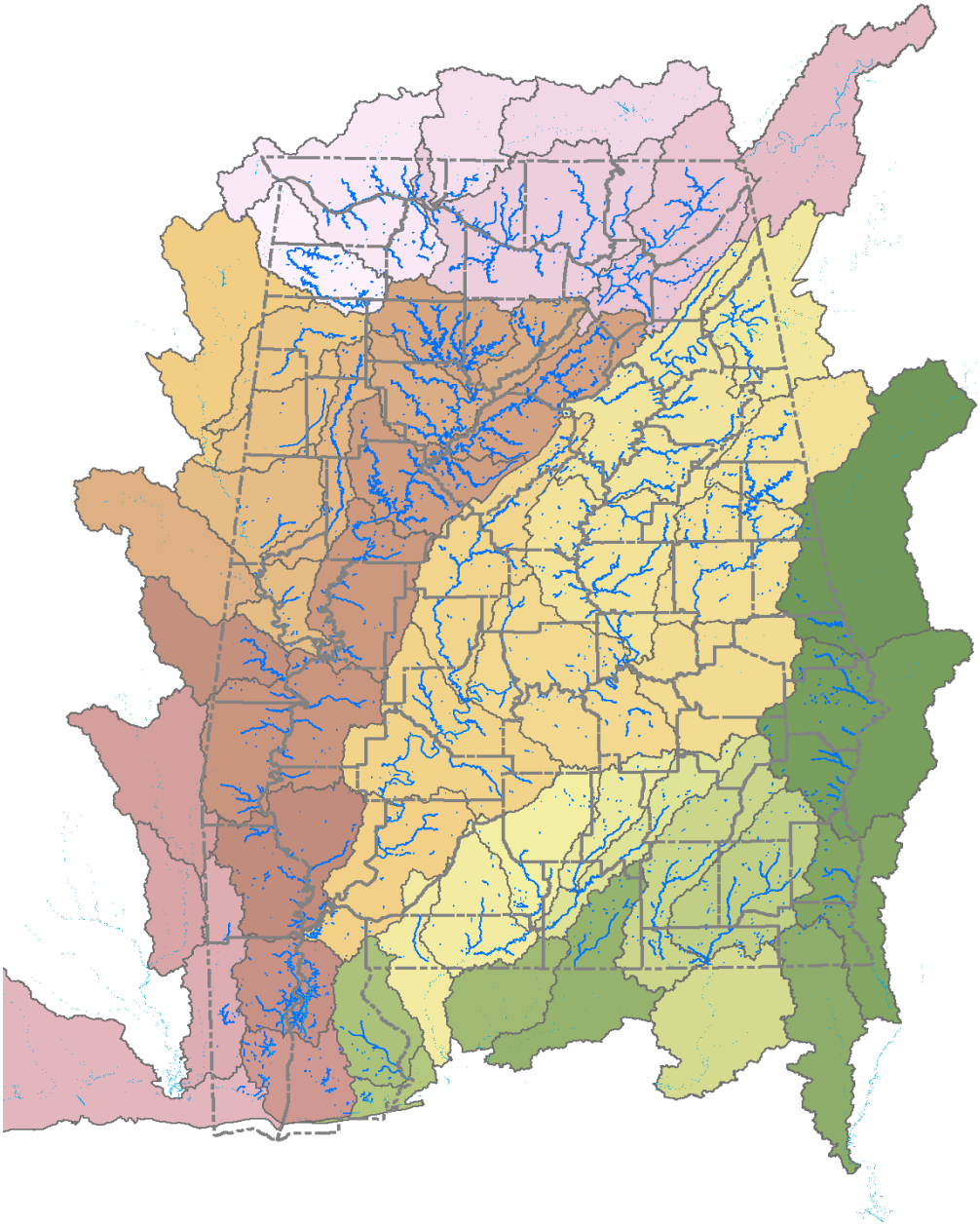
- Irrigation Suitability Index (ISI) was computed as part of the Alabama University Irrigation Initiative in 2006. The ISI is a numeric ranking of 24 attributes from the NRCS State Soil Survey Geographic (SSURGO) that had influence on irrigation suitability. Each value of each attribute was assigned a rank ranging from -1 (entirely unsuitable) to 5 (most suitable) with reference to how that attribute value would impact irrigation. A similar ranking was applied to slope (%), streams and wetlands, and land use. Index values had a spatial resolution of approximately 30 meters. In essence, lands with an ISI value of less than 200 will not support irrigation sustainably while lands with an ISI value of greater than 200 are most likely to support irrigation for the long term. ISI did not consider access to water. We identified 652,368.5 acres in Alabama with High ISI values.

- National Aerial Imagery Program (NAIP). Aerial imagery from 1998, 2006, 2009, and 2011 were used to validate the locational accuracy of the OWR water withdrawal sites and to confirm that the water use associated with the permit was plausible. We used these data to confirm the age, location, and tier rating of golf courses.

- Center Pivot Irrigation system "crop circles". Researchers at University of Alabama-Huntsville used NAIP imagery from 2006 – 2011 to identify and delineate irrigated crop circles for each county in Alabama. Visual cues to identify irrigation sites identified circular shape of fields, circular "green areas", circular tracks, and/or linear towers. Other irrigation methods like drip, buried tape, solid set, or flood were not identified. A total of 120,000 acres of center pivot irrigation sites were identified.

- Hydrologic Unit Code boundaries. Hydrologic Unit Code (HUC) areas are watersheds, stream drainages, drainage basins, or basins in which all water that flows over the surface of the land will be consolidated to a single receiving hydrologic feature such as a stream, river, reservoir,

lake, or ocean. We used HUC 8 (stream drainage) definitions from NRCS. The NRCS based their watershed boundaries upon USGS digital elevation models. There are fifty-three HUC 8 stream drainages in Alabama shown below. Major rivers and river complexes are shown in a similar tone, e.g., Chattahoochee River in dark green, Tennessee River in mauve.



Appendix D

“Forecast of Water Withdrawals for Self-Supplied Industrial Users: 2010-2040”

This appendix contains the above titled report produced by the Troy University Center for Water Resource Economics (CWRE) through a grant by the Office of Water Resources (OWR).

The report provides county and HUC8 (subbasin) level forecasts for self-supplied industrial water use in Alabama in five-year increments from 2010-2040. The foundational data for this forecast is annual water withdrawal amounts for industrial users from 1993-2013 and the University of Alabama CBER report included as Appendix B. Using that information, CWRE analyzed five different estimation methods to project future water withdrawals for industrial users. Of these, the forecast methodology selected was based on the deflated GDP data from an international forecasting service.

Forecast of Water Withdrawals for Self-Supplied Industrial Users: 2010-2040

William L. Hamby, Jr., Ph.D., Troy University

Judson C. Edwards, Ph.D., Troy University

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Center for Water
Resource Economics

Forecast of Water Withdrawals for Self-Supplied Industrial Users: 2010-2040

William L. Hamby, Jr., Ph.D.
Judson C. Edwards, Ph.D.

Executive Summary

William L. Hamby, Jr., Ph.D., Troy University
Judson C. Edwards, Ph.D., Troy University

The purpose of this research is to forecast the water withdrawals for self-supplied industrial water users in Alabama from 2010-2040. The foundational data for this forecast is annual water withdrawal amounts for industrial users from 1993-2013 and the results of the University of Alabama Study forecasting employment and GDP for 2010-2040 as provided by the Alabama Office of Water Resources (OWR). A literature review was conducted to compare methodologies for projections. After review of these numerous methods, the key limitation is the application of two-digit NAICS codes for creating the water use coefficient.

From the user reported data, five estimation methods were utilized to forecast water withdrawals for industrial users for 2010-2040. The five methods were based on employment data from the University of Alabama Study, employment data from EMSI, GDP data from the University of Alabama Study, GDP data from an international forecasting service, and deflated GDP data from an international forecasting service. Although there are limitations for all five methods, with particular concern with aggregated two-digit NAICS data, the method that provides the most reasonable forecast is the one based on the deflated GDP data from an international forecasting service. This method incorporates the anticipated growth in real GDP that is expected for several industries over the 31-year period of the forecast. Further, it does not ignore labor productivity gains, which are not included in the results from the two methods based on employment data, the University of Alabama Study using employment data and EMSI. Labor productivity gains have averaged approximately two percent per year since the 1960's. Both employment-based methodologies indicate that the labor force will decrease, which will lead to a reduction in water withdrawals at the same time that GDP is increasing.

The final forecasts for the five methods are provided below in MGD

Method	2010	2015	2020	2025	2030	2035	2040
University of Alabama GDP	8,822.1737	9,886.7494	7,790.5695	8,239.2185	8,722.2159	9,219.6964	9,719.7223
University of Alabama Employment	8,822.1737	9,556.8897	7,471.5386	7,564.6645	7,660.6424	7,586.1047	7,450.4210
EMSI Employment	8,822.1737	8,708.6472	6,134.6432	6,133.1072	6,131.9149	6,165.6098	6,233.7028
International Forecasting Service GDP	8,822.1737	8,789.7909	7,447.2792	8,041.1587	8,814.0827	9,859.4526	11,334.6346
International Forecasting Service Deflated GDP	8,822.1737	8,789.7909	7,450.4679	7,738.3500	8,065.7086	8,441.3060	8,876.5018

Introduction

The purpose of this research is to forecast the water withdrawals for self-supplied industrial water users in Alabama from 2010-2040. The foundational data for this forecast is water withdrawal rates for industrial users from 1993-2013 and the results of the University of Alabama Study forecasting employment and Gross Domestic Product (GDP) for 2010-2040 as provided by the Alabama Office of Water Resources (OWR), Division of the Alabama Department of Economic and Community Affairs (ADECA). From the user reported data, five estimation methods were utilized to forecast water withdrawals for industrial users for 2010-2040. The five methods were based on employment data from the University of Alabama Study, employment data from EMSI, GDP data from the University of Alabama Study, GDP data from an international forecasting service, and deflated GDP data from an international forecasting service. Although there are limitations for all five methods, the method that provides the most reasonable forecast is the one based on the deflated GDP data from an international forecasting service. Improved data collection in the annual survey may provide an opportunity to improve the accuracy of the forecasting process.

Summary Review of State Water Forecast Methodologies

Based on the review of water forecasting methodologies utilized by other states in the US, the variation of approaches examined follows a pattern of similar foundational data collected. Out of the numerous research articles and reports reviewed for methodologies which could be used as a model for the Alabama forecast, research conducted in the states of Oklahoma and Idaho were selected as "best fit" based on their economic assumptions and similar foundational data as provided by the Alabama Office of Water Resources to the CWRE. In addition to the identified similarities, these "best fit" models are used also as a source for what additional data could be collected in the future through new survey instruments to improve the accuracy of forecasted industrial use in Alabama.

The State of Oklahoma Comprehensive Water Plan 2012 Update of the Water Forecast Demand (Oklahoma Water Resource Board (OWRB 2011) provided a comprehensive look at water demand forecasting for municipal, agriculture and self-supplied industrial users. Based on this report, industrial/commercial use for both public-supply nonresidential and self-supplied industrial forecasts relied on several data points. These data points included employment by group and county, water use per employee by group, employment projections for Oklahoma, survey data specific to oil and gas and thermoelectric outputs and population projections.

The estimation of Oklahoma county-level nonresidential water use was derived by multiplying county employment by water use per employee—with the assumption of holding constant the water use per employee as employment changes in the future. Both employment and water use per employee were available at the two-digit North American Industrial Classification System (NAICS) level. As a forecast foundation for self-supplied users, the OWRB used data from their annual surface and groundwater reports. Two core pieces of information needed to forecast this sector was annual average water use and employment. Due to lack of information on future growth for various self-supplied industrial users, they were forecasted into the future using the growth rates of the employment projections developed for the public supply nonresidential forecast as described earlier.

This Idaho Department of Water Resources (2002) published the report *Domestic, Commercial, Municipal, and Industrial (DCMI) Water Demand Assessment and Forecast in Ada and Canyon Counties, Idaho*. This research forecasted the water needed in order to supply users within the high growth areas of Ada and Canyon Counties with limited ground water availability. The forecast for domestic, commercial, municipal, and industrial (DCMI) demand came forth through a cooperative effort between the Community Planning Association of Ada and Canyon Counties (COMPASS), the United States Geological Survey (USGS), and the Idaho Department of Water Resources (IDWR).

For municipal, commercial, and industrial users (MCI), establishments were grouped by Standard Industrial Code (SIC)—the precursor to the current NAICS system. For this study, a water demand coefficient was calculated for all SIC groups at the two-digit level of aggregation. The resulting water demand coefficients were ratios of water use to the numbers of employees in a SIC group. Hence, the coefficients represented the amount of water demanded per employee within an SIC group to produce products or supply services. This approach proves nearly identical to the methodology used by the Oklahoma study in 2011. The authors of the Idaho study note that "data deficiencies may necessitate the need for caution about the commercial results. Most important is the lack of data on groundwater and surface water use by commercial users. This gap may lead to an underestimation of baseline and forecasted commercial water demand. (Idaho Department of Water Resources, 2002)

After review of these numerous methods, the key limitation in the approach used by both Oklahoma and Idaho is the application of two-digit NAICS codes for creating the water use coefficient. Yet, their application is understandable based on the fact that it is the most readily available employment data from the Bureau of Labor Statistics (BLS). The BLS data typically does not dive into further industrial classification specificity at the county level (three to six-digit NAICS) because of data confidentiality issues. This problem was specifically identified in both studies. A simple example of how this can distort the calculated water coefficient would be the percentage employment growth in manufacturing (two-digit NAICS codes 31-33) for the coming decade within Montgomery County, Alabama. The large manufacturing employment percentage growth does not occur in the manufacturing sectors represented in the self-supplied industrial users within the county. Under closer inspection, the overwhelming percentage of the industrial growth took place in Auto Manufacturing Industry (NAICS: 336111), which is served by municipal water. Thus, using a two-digit NAICS proxy can inflate or deflate the anticipated water use with no direct relationship to water consumption for self-supplied users.

The studies also provided greater insight into the types of data needs for better projections. Though this will be discussed at

the conclusion of the report, the key data collection piece should be annual full-time equivalent employment for all industrial and commercial enterprises— served by both municipal and self-supplied sources. It will also be important to collect or verify six-digit NAICS codes for all responding to the annual survey.

Water Withdrawal Estimation Methodology

The Alabama Office of Water Resources Division provided water withdrawal data for industrial Certificates of Use (COUs) for 1993-2013 and the results of the University of Alabama Study forecasting employment and GDP through 2040. The process of estimating water withdrawals for 2010-2040 was accomplished by utilizing five different approaches and by estimating usage at the specific COU location for enterprises with a NAICS Code beginning with a two, three, or four. This resulted in the removal of some of the industrial COUs from the forecast because the COUs were associated with irrigation or agricultural use. The water withdrawal associated with these COUs should be included in the agricultural and irrigation forecasts. The original baseline for estimating water withdrawals for 2011-2040 was the actual withdrawal for 2010 for each specific COU location. However, some of the COU locations did not withdraw water in 2010 but did withdraw water in 2011, 2012, and/or 2013. Since these water withdrawals could have potential impact on the total water withdrawn during the forecast period, these actual water withdrawals were included in the baseline data. Since 2010, some COUs have been terminated. Therefore, no estimates for water withdrawal were calculated after the date of the COU termination. In addition, the Tennessee Valley Authority (TVA) has announced that two large thermo-electric facilities, Widows Creek Steam Plant and Colbert Steam Plant, will be permanently closed in 2015 and 2016, respectively. Therefore, no future water withdrawals were forecast for these two facilities after their respective closing dates. Since thermo-electric users account for most of the water withdrawals, these estimates of water withdrawals after 2016 do not include potential significant water withdrawals.

University of Alabama Employment Data Methodology

The literature review indicated that Oklahoma and Utah utilize employment data as the method for estimating water withdrawals for industrial users. For purposes of this forecast, the initial estimates were based on the employment data provided by the University of Alabama Study. The following formula was used to calculate the annual water withdrawal for each industrial COU:

$$WW_{j,t} = WW_{j,t-1} * (UAEMP_{i,k,t} / UAEMP_{i,k,t-1})$$

WW represents the water withdrawal for industrial COU *j* for time period *t*, where *t* ranges from 2011 to 2040. UAEMP is the employment data from the University of Alabama Study for industry *i* in county *k* for time periods *t* and *t-1*. The University of Alabama Study employment data was provided for the state and county level for thirteen industry groups. If sufficient county level data for the industry group were available, then county level data were used to calculate the year-to-year change in employment. However, if insufficient county level data were available, then the state level data were used to calculate the year-to-year change in employment. The primary assumptions of this methodology are that there is a cause and effect relationship between employment data and water withdrawal, aggregated employment data for industry groups are representative of all entities in the industry group, and that state level employment data are representative of employment data for counties where county level data are not available.

The University of Alabama Study employment data consisted of aggregated data for thirteen industry groups: Natural Resources; Construction; Manufacturing; Wholesale Trade; Retail Trade; Transportation, Warehousing, and Utilities; Information; Financial Activities; Professional and Business Services; Educational and Health Services; Leisure and Hospitality; Other Services; and Government. The enterprises within these groups represent multiple NAICS Codes. There is evidence that the industry growth rates are significantly different among the various NAICS Codes within an industry group. Therefore, a major concern regarding the accuracy of the water withdrawal estimates based on the employment data from the University of Alabama Study was the aggregation of data across several NAICS Codes, which might have vastly different employment projections. Some industries within the University of Alabama industry group may experience a decline in employment, while other industries within the industry group may experience a significant increase in employment. Further, there were several counties that did not

provide sufficient employment data. This required the use of State of Alabama data to calculate the estimated water withdrawal for specific industrial COUs. There is the possibility that the state level data may not be representative of the county level data for an industry group. This use of aggregated data further compromises the estimates based on the employment data from the University of Alabama Study. Therefore, the following method was deployed with the expectation that a more accurate forecast could be prepared.

EMSI Employment Data Methodology

To address these two concerns about the aggregation of data across NAICS Codes and counties, employment data from EMSI was utilized to provide for a second set of estimates. EMSI provides county level, state level and national level data by three-digit NAICS Codes. The usage of this data has the potential to improve the accuracy of the water withdrawal forecasts since the year-to-year changes in employment can be significantly different for NAICS Codes. The following formula was used to calculate the annual water withdrawal for each industrial COU:

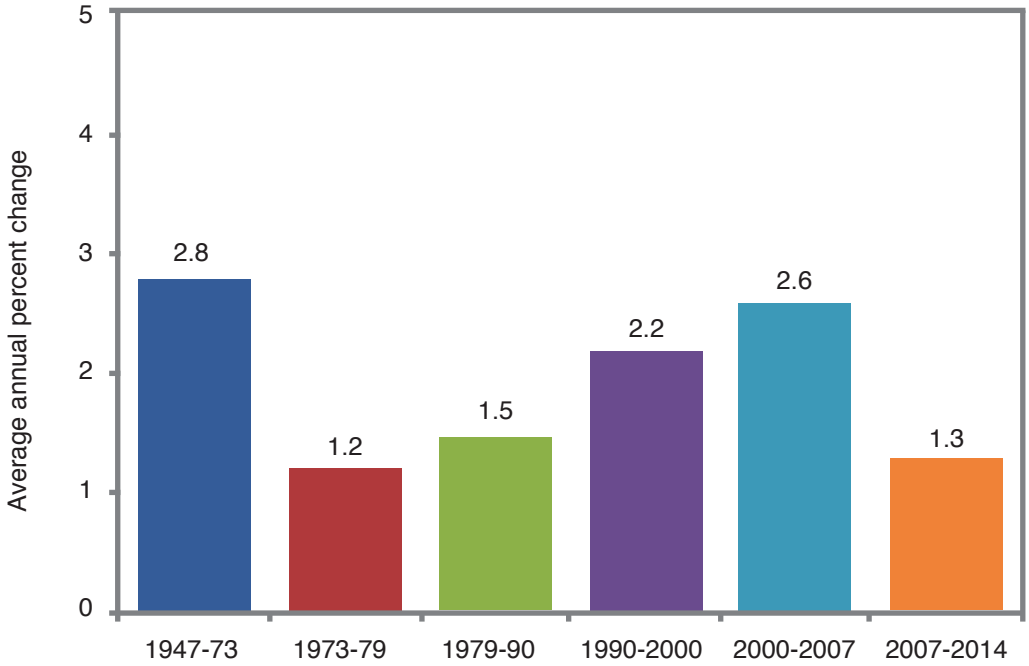
$$WW_{j,t} = WW_{j,t-1} * (EMSIEMP_{i,k,t} / EMSIEMP_{i,k,t-1})$$

WW represents the water withdrawal for industrial COU *j* for time period *t*, where *t* ranges from 2011 to 2040. EMSIEMP is the employment data from the EMSI for three-digit NAICS Code *i* county *k* for time periods *t* and *t-1*. However, EMSI only provides estimated employment data through 2025. If sufficient county level data were not available, then state level data were used, and if sufficient state level data were not available, then national level data were used. The EMSI data provides estimates of employment through 2025. Since the forecast period for water withdrawals is through 2040, the ten-year (2016-2025) average employment change was used as an estimate of the year-to-year change in employment for 2026-2040. The primary assumptions of this methodology are that there is a cause and effect relationship between employment data and water withdrawal, the ten-year average employment change is representative of the employment change expected for the 2026-2040, that state level employment data are representative of employment data for counties where county level data are not available, and national level data are representative of county level data where state level data are not available. The utilization of EMSI employment data reduced the number of estimates based on state level data. The forecasts of the EMSI Employment method were similar to the forecasts using the University of Alabama Employment Study data.

University of Alabama GDP Data Methodology

The following Bureau of Labor Statistic bar chart of productivity change from 1947-2014 provides one of the primary deficiencies of using employment data to estimate water withdrawal for a 31-year period. The annual average productivity gain for the 46-year period since 1979 has been between 1.3 and 2.6 percent, with an annual average of approximately two percent. If similar productivity gains are experienced during the 31-year period for this study, then by 2040, the labor force necessary to generate current output could be realized with approximately one-half of the current labor force. This would produce estimated water withdrawal that would be approximately one-half of current withdrawals, yet output would not have declined by a similar rate. This is plausible if there is a nominal relationship between water withdrawal and output. However for many industrial COUs, water is an integral component of the industrial process, and frequently, is an integral component of the output. If either of these conditions is representative of water withdrawal for the industrial user, then the usage of the employment data from the University of Alabama and EMSI may not provide accurate estimates for water withdrawal during this thirty-one year period. Since GDP is more closely related to output, the following GDP-based methodology was deployed.

Productivity change in the nonfarm business sector, 1947–2014



Source: U.S. Bureau of Labor Statistics

To address this concern that employment data might not be a good metric for estimating water withdrawal, GDP data from the University of Alabama Study were used to estimate water withdrawal. The following formula was used to calculate the annual water withdrawal for each industrial COU:

$$WW_{j,t} = WW_{j,k,t-1} * (UAGDP_{i,k,t} / UAGDP_{i,k,t-1})$$

WW represents the water withdrawal for industrial COU *j* for time period *t*, where *t* ranges from 2011 to 2040. UAGDP is the GDP data from the University of Alabama Study for industry *i* in county *k* for time periods *t* and *t-1*. The University of Alabama Study GDP data was provided for the state and county level for thirteen industry groups. If sufficient county level data for the industry group were available, then county level data were used to calculate the year-to-year change in GDP. However, if insufficient county level data were available, then the state level data were used to calculate the year-to-year change in GDP. The primary assumptions of this methodology are that there is a cause and effect relationship between GDP data and water withdrawal, aggregated GDP data for industry groups are representative of all entities in the industry group, and that state level GDP data are representative of GDP data for counties where county level data are not available.

The University of Alabama Study GDP data consisted of aggregated data for thirteen industry groups: Natural Resources; Construction; Manufacturing; Wholesale Trade; Retail Trade; Transportation, Warehousing, and Utilities; Information; Financial Activities; Professional and Business Services; Educational and Health Services; Leisure and Hospitality; Other Services; and Government. The enterprises within these groups represent multiple NAICS Codes. There is evidence that the industry growth rates are significantly different among the various NAICS Codes within an industry group. Therefore, a major concern regarding the accuracy of the water withdrawal estimates based on the GDP data from the University of Alabama Study was the aggregation of data across several NAICS Codes, which might have vastly different GDP projections. Some industries within the University of Alabama industry group may experience

a decline in GDP, while other industries within the industry group may experience a significant increase in GDP. This use of aggregated data compromises the estimates based on the GDP data from the University of Alabama Study. Therefore, the following method was deployed with the expectation that a more accurate forecast could be prepared.

International Forecasting Service GDP Data Methodology

To address the differences between the forecasts based on the aggregation of GDP data across several NAICS codes in the University of Alabama Study, the GDP forecasts of an international forecasting service were used to calculate additional water withdrawal forecasts. The international forecasting service provides forecasts for most five-digit NAICS Codes, which has the potential to improve the accuracy of the water withdrawal forecasts since the year-to-year changes in GDP can be significantly different for NAICS Codes. The following formula was used to calculate the annual water withdrawal for each industrial COU:

$$WW_{j,t} = WW_{j,t-1} * (IFSGDP_{i,t} / IFSGDP_{i,t-1})$$

WW represents the water withdrawal for industrial COU *j* for time period *t*, where *t* ranges from 2011 to 2040. IFSGDP is the GDP data from the International Forecasting Service for five-digit NAICS Code *i* for time periods *t* and *t-1*. The international forecasting service provides data only at the national level and provides a forecast of GDP through 2019 or 2020. Since the forecast period for water withdrawals is through 2040, the ten-year average change in GDP was used as an estimate of the year-to-year change in GDP for the remaining years of the forecast. The primary assumptions of this methodology are that there is a cause and effect relationship between GDP data and water withdrawal, national level data for GDP change is representative of the GDP change for industrial users in Alabama, and that the ten-year average GDP change through 2019 or 2020 is representative of the GDP change for the remaining years of the forecast. The forecasts of the international forecasting service method using GDP data were higher but also similar to the forecasts using the University of Alabama GDP Study data.

International Forecasting Service Deflated GDP Data Methodology

The international forecasting service indicated that for the ten-year period ending in 2019 or 2020 some industries would experience significant growth in GDP. The likelihood that that same rate of growth could be sustained for approximately 30 years is highly unlikely. Therefore, the ten-year average change in GDP was deflated by 50 percent to provide for a more realistic long-term growth rate. The following formula was used to calculate the annual water withdrawal for each industrial COU:

$$WW_{j,t} = WW_{j,t-1} * (IFSGDP_{i,t} / IFSGDP_{i,t-1})$$

WW represents the water withdrawal for industrial COU *j* for time period *t*, where *t* ranges from 2011 to 2040. IFSGDP is the GDP data from the International Forecasting Service for five-digit NAICS Code i for time periods *t* and *t-1*. The international forecasting service provides data only at the national level and provides a forecast of GDP through 2019 or 2020. Since the forecast period for water withdrawals is through 2040, the ten-year average change in GDP deflated by 50 percent was used as an estimate of the year-to-year change in GDP for the remaining years of the forecast. The primary assumptions of this methodology are that there is a cause and effect relationship between GDP data and water withdrawal, national level data for GDP change is representative of the GDP change for industrial users in Alabama, and that the ten-year average GDP change through 2019 or 2020 deflated by 50 percent is representative of the GDP change for the remaining years of the forecast. The forecasts of the international forecasting service method using deflated GDP were lower than the other two GDP-based methods and produced a result that was approximately equal to the average of the four other methods.

The International Forecasting Service Deflated GDP was selected as the method for estimating water withdrawal forecasts because it appears to be the most accurate of the five methodologies. This method incorporates the anticipated growth in real GDP that is expected for several industries over the 31-year period of the forecast. However, it does not produce results that are possibly too optimistic, as does the University of Alabama Study using GDP data and the International Forecasting Service using GDP data. Further, it does not ignore labor productivity gains, which are not included in the results from the two methods based on employment data, the University of Alabama Study using employment data and EMSI. Labor productivity gains have averaged approximately two percent per year since the 1960's. Both employment-based methodologies

Table 1: Ground Water Withdrawals (in MGD)

	YEAR						
Method	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
University of Alabama GDP	33.20	53.34	64.97	75.29	89.02	104.04	119.86
University of Alabama Employment	33.20	44.12	46.44	47.45	48.24	49.20	50.34
EMSI Employment	33.20	45.69	45.37	46.62	47.72	49.26	51.26
International Forecasting Service GDP	33.20	45.64	50.97	58.29	67.57	79.39	94.56
International Forecasting Service Deflated GDP	33.20	45.64	50.81	54.10	57.79	61.92	66.56

indicate that the labor force will decrease, which will lead to a reduction in water withdrawals at the same time that GDP is increasing. This does not seem to be a reasonable representation of water withdrawals.

Analysis of Forecasts

The analysis of the five forecasts will evaluate the withdrawal of water at the state, county, and HUC level. Although there are forecasts for every well for the 31-year period, the state level analysis will focus on the annual withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040. The state level analysis will address the withdrawal of ground water, surface water, and the total water withdrawn. This analysis will also address the type of industrial user, based on the three-digit NAICS Code. Six industry groups were identified for this analysis: mining, thermo-electric, pulp and paper, petrochemical, other manufacturing, and wholesale. The county level analysis will address total water withdrawn for 2010, 2015, 2020, 2025, 2030, 2035, and 2040. The HUC level analysis will address total water withdrawn for those same years.

The main report will address the results based on the International Forecasting Service Deflated GDP. The analysis of the other four forecasting methods is contained in the Appendices.

State Level Analysis

Ground Water Withdrawals

The five forecasts of ground water withdrawal produce significantly different results for water withdrawn during the 31-year period and a significant difference in the primary industries withdrawing the water. Table 1 provides an overview of the forecasts for the five methods. The forecast based on the University of Alabama Study using GDP data produces the largest amount of ground water withdrawal, with an estimated 119.86 million gallons per day for 2040. This forecast estimates that ground water withdrawals will increase by 261 percent during the 31-year period. The forecast based on the University of Alabama Study using employment data produces the least amount of ground water withdrawal, with an estimated 50.34 million gallons per day in 2040. This forecast estimates that ground water withdrawals will increase by only 51 percent during the 31-year period. The forecast based on the EMSI employment data produces similar results to the University of Alabama Study based on employment data. The only major difference between these two employment-based forecasts is that the forecast based on the University of Alabama Study has ground water withdrawal growing at a small rate for the entire 31-year period. Whereas, the forecast based on the EMSI employment data projects that ground water withdrawals for 2015-2018 will be less than the prior year withdrawals. Beginning in 2019 ground water withdrawals begin to increase, but the ground water withdrawals

Table 2: Ground Water Withdrawal Data (in MGD) - International Forecasting Service Deflated GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	0.24	0.25	0.28	0.30	0.32	0.34	0.36
Thermo-electric	0.20	0.31	0.34	0.34	0.34	0.34	0.34
Pulp and Paper	11.78	11.76	12.16	12.27	12.38	12.49	12.61
Petrochemical	10.96	18.00	21.03	23.35	25.98	28.96	32.35
Other Manufacturing	10.01	15.29	16.98	17.81	18.73	19.74	20.85
Wholesale	0.02	0.02	0.03	0.03	0.04	0.04	0.04
Total	33.20	45.64	50.81	54.10	57.79	61.92	66.56

do not match the 2014 ground water withdrawals until 2025. The forecast based on the International Forecasting Service estimates for GDP produces a result that is comparable to the University of Alabama Study based on GDP. The estimated ground water withdrawal in 2040 is 94.56, which represents a 185 percent increase during the 31-year period. The forecast based on the International Forecasting Service estimates for GDP deflated by 50 percent produces a result more similar to the employment-based forecasts. The estimated ground water withdrawal in 2040 is 66.56, which is a 100 percent increase during the 31-year period.

Table 2 provides a breakdown of ground water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the International Forecasting Service Deflated GDP data. The forecasts indicate that Mining, Thermo-electric, Petrochemical, and Other Manufacturing will experience significant increases in ground water withdrawal, with increases of 53 percent, 73 percent, 195 percent, and 108 percent, respectively. Pulp and Paper and Wholesale will experience modest increases of seven percent and 40 percent increase, respectively. Total ground water withdrawals are forecast to increase by 100 percent.

The following charts, Chart 1.1 – Chart 1.4, provide the breakdown of ground water withdrawals by the type of industrial user based on the International Forecasting Service Deflated GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of ground water withdrawn by Pulp and Paper industrial users declines, while the proportion of ground water withdrawn by Petrochemical and Other Manufacturing industrial users increases. This is consistent with the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart 1.1: Self-Supplied Ground Water Withdrawals (in MGD) 2010: International Forecasting Service Deflated GDP

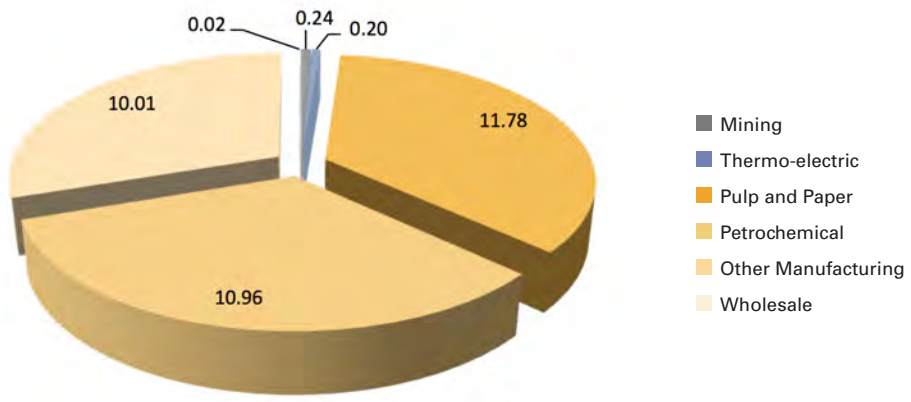


Chart 1.2: Self-Supplied Ground Water Withdrawals (in MGD) 2020: International Forecasting Service Deflated GDP

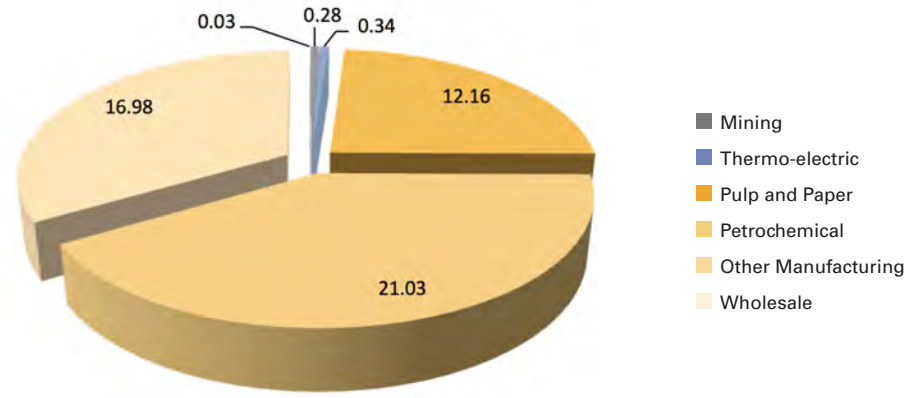


Chart 1.3: Self-Supplied Ground Water Withdrawals (in MGD) 2030: International Forecasting Service Deflated GDP

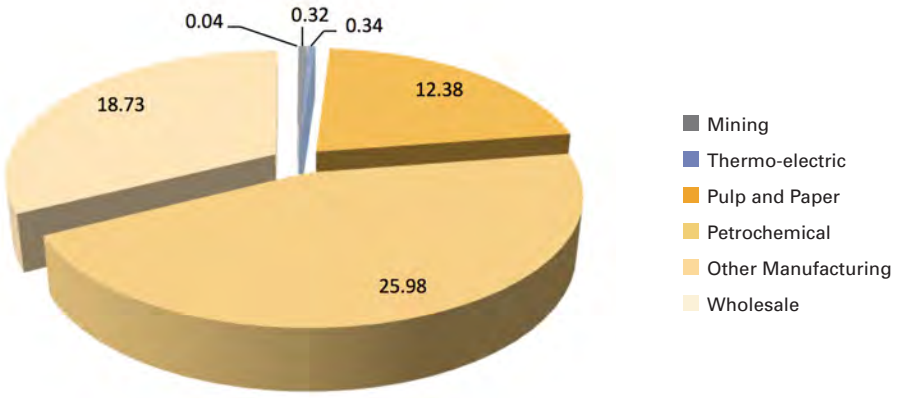


Chart 1.4: Self-Supplied Ground Water Withdrawals (in MGD) 2040: International Forecasting Service Deflated GDP

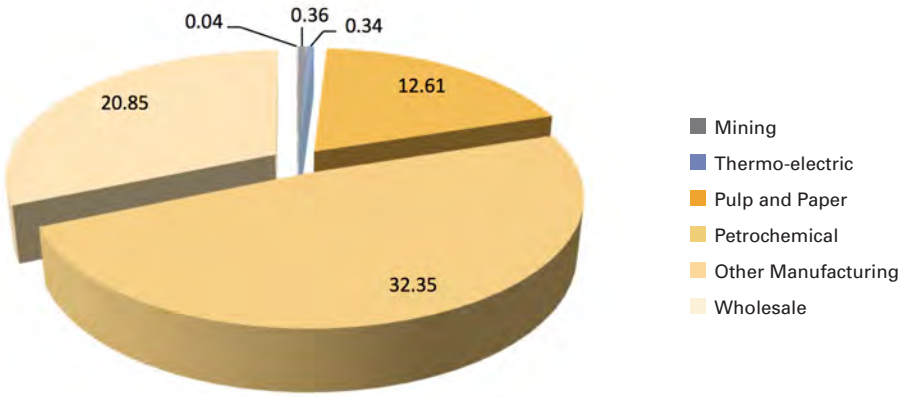


Table 3: Surface Water Withdrawals (in MGD)

	YEAR						
Method	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
University of Alabama GDP	8,788.97	9,833.41	7,725.60	8,163.93	8,633.19	9,115.66	9,599.86
University of Alabama Employment	8,788.97	9,512.77	7,425.10	7,517.21	7,612.40	7,536.90	7,400.09
EMSI Employment	8,788.97	8,662.95	6,089.28	6,086.49	6,084.19	6,116.35	6,182.44
International Forecasting Service GDP	8,788.97	8,744.16	7,396.31	7,982.86	8,746.51	9,780.06	11,240.07
International Forecasting Service Deflated GDP	8,788.97	8,744.16	7,399.66	7,684.25	8,007.92	8,379.39	8,809.94

Surface Water Withdrawals

The five forecasts of surface water withdrawal produce significantly different results for water withdrawn during the 31-year period and a significant difference in the primary industries withdrawing the water. Table 3 provides an overview of the forecasts for the five methods. The forecast based on the International Forecasting Service for GDP produces the largest amount of surface water withdrawal, with an estimated 11,240.0724 million gallons per day for 2040. This forecast estimates that surface water withdrawals will increase by 28 percent during the 31-year period. The forecast based on the EMSI employment data produces the least amount of surface water withdrawal, with an estimated 6,182.44 million gallons per day in 2040. This forecast estimates that surface water withdrawals will decrease by 30 percent during the 31-year period. The forecast based on the University of Alabama Study using employment data projects that surface water withdrawals will be 7,400.09 million gallons per day in 2040, which is a 16 percent decline during the 31-year period. These results are similar results to the EMSI employment data method. The major reason that these two methods forecast a decline in surface water withdrawal is the closing of two TVA thermo-electric plants in 2015 and 2016. The forecast based on the University of Alabama Study using GDP data projects that surface water withdrawals will be 9,599.86 million gallons per day in 2040, which is an increase of nine percent during the 31-year period. The forecast based on the International Forecasting Service Deflated GDP estimates projects that surface water withdrawals will be 8,809.94 million gallons per day in 2040, which is a one percent increase during the 31-year period. The results of these two methods produce very similar results, with the major difference being the rate at which surface water withdrawals increase after the closing of the two TVA thermo-electric plants.

Table 4: Surface Water Withdrawal Data (in MGD) - International Forecasting Service Deflated GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.30	3.04	3.86	4.04	4.24	4.46	4.70
Thermo-electric	8,251.64	8,076.08	6,705.51	6,903.33	7,113.62	7,337.06	7,574.38
Pulp and Paper	369.99	357.41	346.16	344.81	344.27	344.53	345.60
Petrochemical	140.28	277.64	311.18	396.23	506.80	650.86	838.94
Other Manufacturing	23.77	29.94	32.91	35.79	38.95	42.43	46.26
Wholesale	-	0.03	0.03	0.04	0.04	0.04	0.05
Total	8,788.97	8,744.16	7,399.66	7,684.25	8,007.92	8,379.39	8,809.94

Table 4 provides a breakdown of surface water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the International Forecasting Service Deflated GDP data. The forecasts indicate that Mining, Petrochemical, and Other Manufacturing will experience significant increases in surface water withdrawal, with increases of 43 percent, 498 percent, and 95 percent, respectively. Thermo-electric and Pulp and Paper will experience decreases of eight percent and seven percent, respectively. Total surface water withdrawals are forecast to increase by less than one percent.

The following charts, Chart 2.1 – Chart 2.4, provide the breakdown of surface water withdrawals by the type of industrial user based on the International Forecasting Service Deflated GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of surface water withdrawn by Thermo-electric industrial users declines, while the proportion of surface water withdrawn by Petrochemical, Other Manufacturing, and Pulp and Paper industrial users increases. This is consistent with closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart 2.1: Self-Supplied Surface Water Withdrawals (in MGD) 2010: International Forecasting Service Deflated GDP

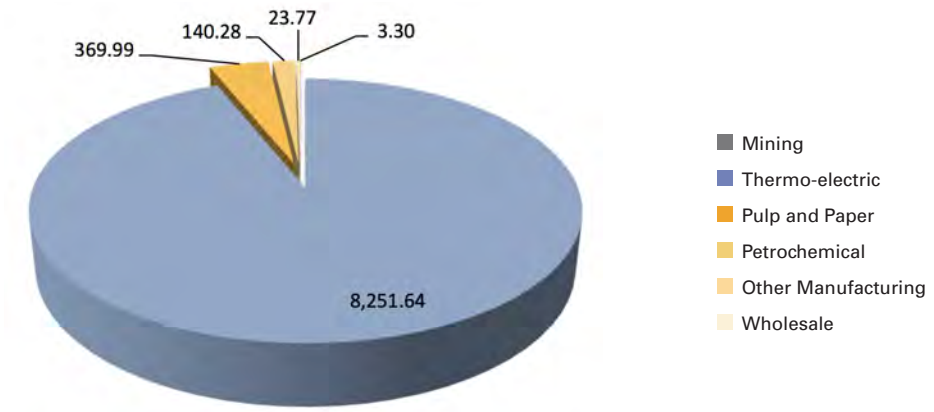


Chart 2.2: Self-Supplied Ground Water Withdrawals (in MGD) 2020: International Forecasting Service Deflated GDP

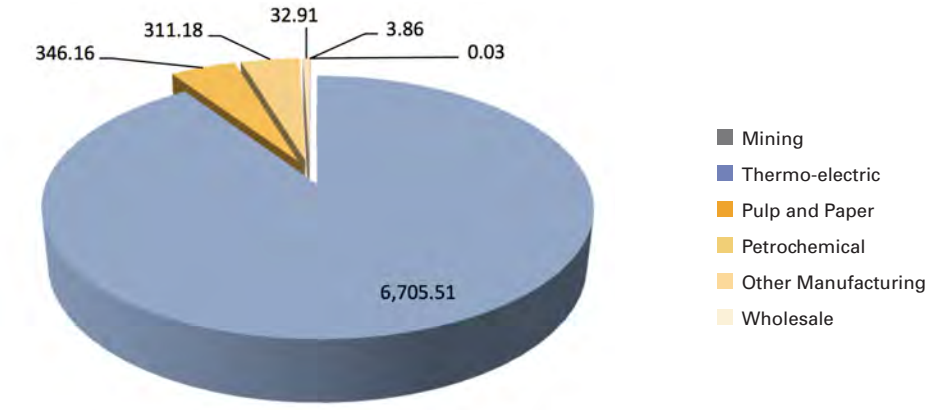


Chart 2.3: Self-Supplied Ground Water Withdrawals (in MGD) 2030: International Forecasting Service Deflated GDP

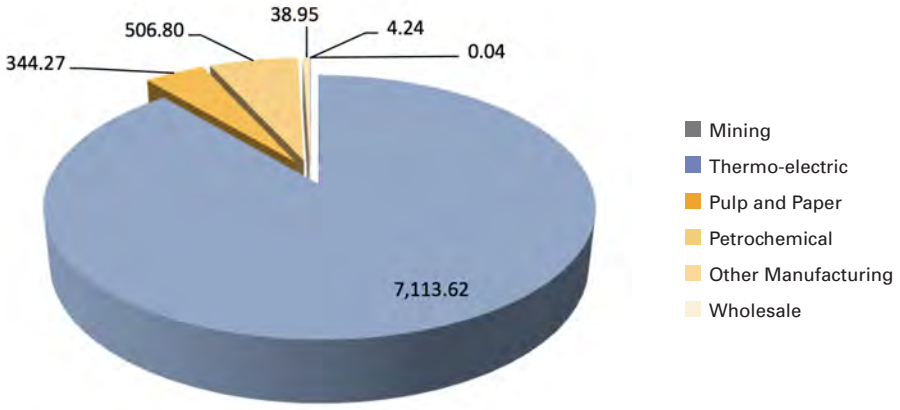


Chart 2.4: Self-Supplied Ground Water Withdrawals (in MGD) 2040: International Forecasting Service Deflated GDP

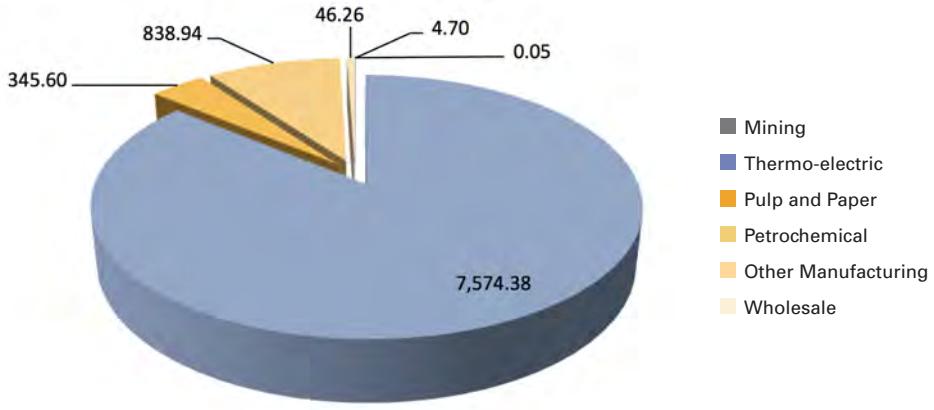


Table 5: Total Water Withdrawals (in MGD)

	YEAR						
Method	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
University of Alabama GDP	8,822.17	9,886.75	7,790.57	8,239.22	8,722.22	9,219.70	9,719.72
University of Alabama Employment	8,822.17	9,556.89	7,471.54	7,564.66	7,660.64	7,586.10	7,450.42
EMSI Employment	8,822.17	8,708.65	6,134.64	6,133.11	6,131.91	6,165.61	6,233.70
International Forecasting Service GDP	8,822.17	8,789.79	7,447.28	8,041.16	8,814.08	9,859.45	11,334.63
International Forecasting Service Deflated GDP	8,822.17	8,789.79	7,450.47	7,738.35	8,065.71	8,441.31	8,876.50

Total Water Withdrawals

The five forecasts of total water withdrawals produce significantly different results for total water withdrawn during the 31-year period and a significant difference in the primary industries withdrawing the water. Table 5 provides an overview of the forecasts for the five methods. The forecast based on the International Forecasting Service GDP data produces the largest amount of total water withdrawal, with an estimated 11,334.63 million gallons per day for 2040. This forecast estimates that total water withdrawals will increase by 28 percent during the 31-year period. The forecast based on the EMSI employment data produces the least amount of total water withdrawal, with an estimated 6,233.70 million gallons per day in 2040. This forecast estimates that total water withdrawals will decrease by 29 percent during the 31-year period. The forecast based on the University of Alabama Study using employment data produces similar results and projects that total water withdrawn will be 7,450.42 million gallons per day in 2040, which is a 16 percent decline during the 31-year period. The forecast based on the University of Alabama Study using GDP data projects that total water withdrawn will be 9,719.72 million gallons per day in 2040, which is a 10 percent increase during the 31-year period. The forecast based on the International Forecasting Service Deflated GDP estimates that total water withdrawn will be 8,876.50 million gallons per day in 2040, which is an increase of one percent during the 31-year period.

Table 6: Total Water Withdrawal Data (in MGD) - International Forecasting Service Deflated GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.53	3.29	4.15	4.35	4.56	4.80	5.07
Thermo-electric	8,251.84	8,076.40	6,705.85	6,903.68	7,113.96	7,337.41	7,574.73
Pulp and Paper	381.77	369.17	358.32	357.08	356.64	357.02	358.21
Petrochemical	151.24	295.64	332.20	419.58	532.78	679.82	871.29
Other Manufacturing	33.78	45.23	49.89	53.60	57.68	62.17	67.11
Wholesale	0.02	0.05	0.06	0.07	0.07	0.08	0.09
Total	8,822.17	8,789.79	7,450.47	7,738.35	8,065.71	8,441.31	8,876.50

Table 6 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the International Forecasting Service Deflated GDP data. The forecasts indicate that Mining, Petrochemical, Other Manufacturing, and Wholesale will experience significant increases in total water withdrawal, with increases of 43 percent, 476 percent, 99 percent, and 308 percent, respectively. Thermo-electric and Pulp and Paper will experience declines of eight and six percent, respectively.

The following charts, Chart 3.1 – Chart 3.4, provide the breakdown of total water withdrawals by the type of industrial user based on the International Forecasting Service Deflated GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that the during the 31-year period, the proportion of total water withdrawn by Thermo-electric industrial users declines, while the proportion of total water withdrawn by Petrochemical, Pulp and Paper, and Other Manufacturing industrial users increases. This is consistent with the closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart 3.1: Self-Supplied Total Water Withdrawals (in MGD) 2010: International Forecasting Service Deflated GDP

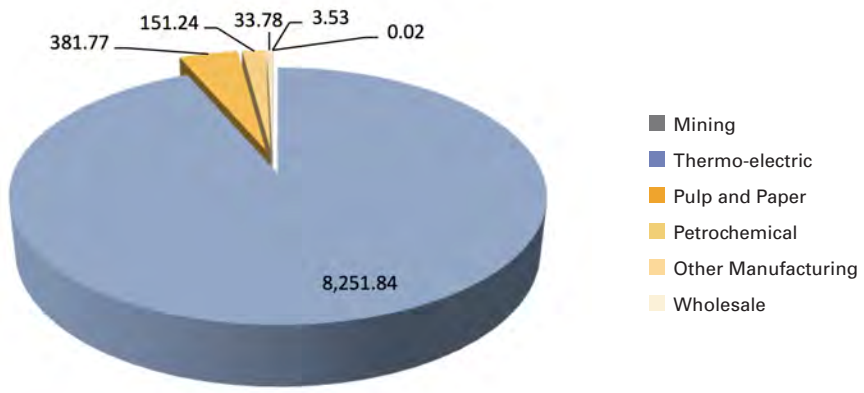


Chart 3.2: Self-Supplied Total Water Withdrawals (in MGD) 2020: International Forecasting Service Deflated GDP

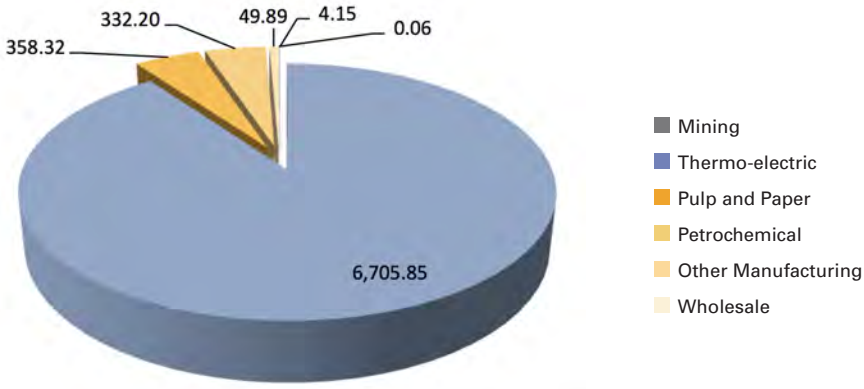


Chart 3.3: Self-Supplied Total Water Withdrawals (in MGD) 2030: International Forecasting Service Deflated GDP

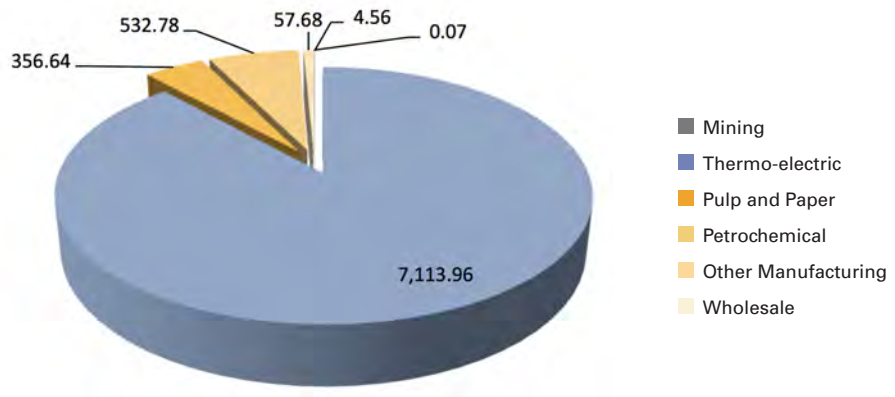


Chart 3.4: Self-Supplied Total Water Withdrawals (in MGD) 2040: International Forecasting Service Deflated GDP

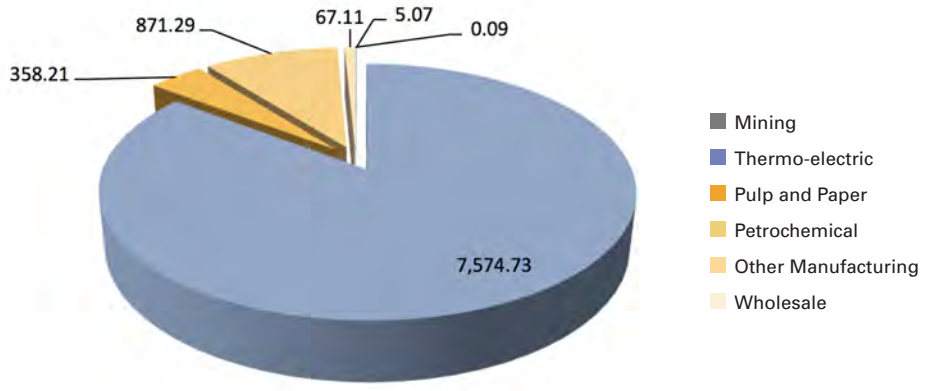


Table 7: Total Water Withdrawal Data (in MGD) - International Forecasting Service Deflated GDP

	YEAR						
Water Source	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Ground	33.20	45.64	50.81	54.10	57.79	61.92	66.56
Surface	8,788.97	8,744.16	7,399.66	7,684.25	8,007.92	8,379.39	8,809.94
Total	8,822.17	8,789.79	7,450.47	7,738.35	8,065.71	8,441.31	8,876.50

Chart 4: Self-Supplied Total Water Withdrawal (in MGD) 2010-2040: International Forecasting Service Deflated GDP-

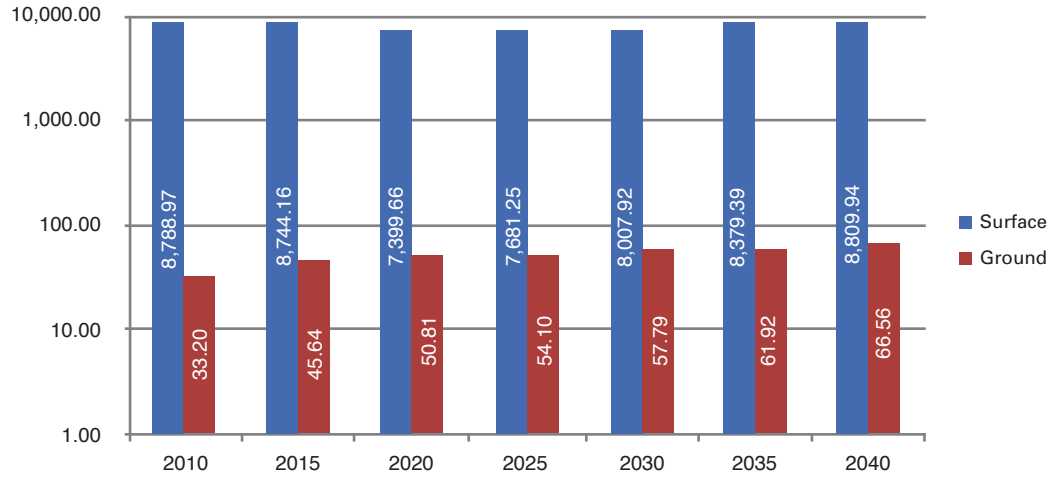


Table 7 and Chart 4 provide a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the water source based on the International Forecasting Service Deflated GDP data. The forecast indicates that approximately 99 percent of water withdrawn is surface water. Ground water is projected to increase by 100 percent during the 31-year period; whereas, surface water is expected to increase by less than one percent. Thermo-electric is the largest user of surface water, and the closing of the two TVA plants significantly impacts the surface water withdrawn.

County Level Analysis

The county level analysis addresses the total water withdrawn by industrial users in each county during the 31-year period. Table 8 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each county in the State of Alabama based on the International Forecasting Service Deflated GDP data. The results indicate that two counties, Colbert and Jackson, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each county. However, some counties experience significant increases in water withdrawn during the 31-year period, e.g., Etowah, Greene, Mobile, Morgan, Shelby, Walker, and Washington, with increases of 56 percent, 55 percent, 55 percent, 751 percent, 55 percent, 55 percent, and 58 percent. The counties with the largest water withdrawals are Limestone, Walker, Mobile, Shelby, and Morgan, with each county having water withdrawals in excess of 690 million gallons per day by 2040. In 2040, the water withdrawal for these five counties accounts for 83 percent of all water withdrawn.

Table 8: Water Withdrawal (in MGD) by County - International Forecasting Service Deflated GDP

	2010			2015			2020			2025			2030			2035			2040		
COUNTY	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
AUTAUGA	32.42	9.84	**42.26**	32.43	9.84	**42.28**	33.89	10.21	**44.11**	34.31	10.31	**44.62**	34.73	10.42	**45.15**	35.16	10.52	**45.68**	35.60	10.63	**46.23**
BALDWIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARBOUR	-	1.58	**1.58**	-	1.32	**1.32**	-	1.46	**1.46**	-	1.43	**1.43**	-	1.40	**1.40**	-	1.37	**1.37**	-	1.34	**1.34**
BIBB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOUNT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BULLOCK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTLER	-	0.30	**0.30**	-	0.27	**0.27**	-	0.25	**0.25**	-	0.24	**0.24**	-	0.22	**0.22**	-	0.21	**0.21**	-	0.20	**0.20**
CALHOUN	-	0.97	**0.97**	-	0.98	**0.98**	-	1.04	**1.04**	-	1.06	**1.06**	-	1.09	**1.09**	-	1.11	**1.11**	-	1.13	**1.13**
CHAMBERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILTON	-	0.35	**0.35**	-	0.38	**0.38**	-	0.43	**0.43**	-	0.45	**0.45**	-	0.48	**0.48**	-	0.50	**0.50**	-	0.53	**0.53**
CHOCTAW	40.80	-	**40.80**	36.57	-	**36.57**	33.35	-	**33.35**	31.71	-	**31.71**	30.16	-	**30.16**	28.68	-	**28.68**	27.27	-	**27.27**
CLARKE	20.21	-	**20.21**	18.11	-	**18.11**	16.52	-	**16.52**	15.71	-	**15.71**	14.94	-	**14.94**	14.21	-	**14.21**	13.51	-	**13.51**
CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEBURNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COFFEE	-	1.13	**1.13**	-	2.06	**2.06**	-	2.26	**2.26**	-	2.22	**2.22**	-	2.17	**2.17**	-	2.13	**2.13**	-	2.09	**2.09**
COLBERT	1,331.41	0.31	**1,331.72**	1,353.63	0.35	**1,353.98**	93.19	0.36	**93.55**	106.29	0.38	**106.68**	121.60	0.40	**122.00**	139.48	0.42	**139.91**	160.40	0.45	**160.85**
CONECUH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COVINGTON	1.74	-	**1.74**	1.76	-	**1.76**	2.16	-	**2.16**	2.28	-	**2.28**	2.41	-	**2.41**	2.54	-	**2.54**	2.69	-	**2.69**
CRENSHAW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULLMAN	1.83	0.43	**2.26**	2.79	0.76	**3.55**	3.11	0.88	**3.99**	3.25	0.99	**4.24**	3.41	1.11	**4.52**	3.60	1.24	**4.85**	3.82	1.40	**5.22**
DALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS	32.20	0.14	**32.34**	28.86	0.12	**28.99**	26.32	0.11	**26.43**	25.03	0.11	**25.13**	23.80	0.10	**23.90**	22.64	0.10	**22.73**	21.53	0.09	**21.62**
DEKALB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELMORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESCAMBIA	33.61	1.47	**35.08**	40.92	1.66	**42.58**	44.17	1.87	**46.04**	47.35	1.99	**49.34**	50.76	2.12	**52.88**	54.41	2.25	**56.67**	58.33	2.40	**60.73**
ETOWAH	123.78	-	**123.78**	127.22	-	**127.22**	154.59	-	**154.59**	163.53	-	**163.53**	173.00	-	**173.00**	183.02	-	**183.02**	193.63	-	**193.63**
FAYETTE	1.10	-	**1.10**	0.85	-	**0.85**	1.12	-	**1.12**	1.12	-	**1.12**	1.13	-	**1.13**	1.14	-	**1.14**	1.14	-	**1.14**
FRANKLIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GENEVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE	354.43	0.03	**354.46**	358.44	0.03	**358.47**	440.84	0.04	**440.88**	465.62	0.04	**465.66**	491.80	0.04	**491.84**	519.45	0.05	**519.50**	548.66	0.05	**548.71**
HALE	-	0.02	**0.02**	-	0.02	**0.02**	-	0.03	**0.03**	-	0.03	**0.03**	-	0.04	**0.04**	-	0.04	**0.04**	-	0.04	**0.04**
HENRY	-	0.54	**0.54**	-	0.58	**0.58**	-	0.63	**0.63**	-	0.66	**0.66**	-	0.69	**0.69**	-	0.72	**0.72**	-	0.74	**0.74**
HOUSTON	89.20	0.17	**89.37**	81.69	0.28	**81.96**	89.13	0.31	**89.44**	88.47	0.30	**88.77**	87.81	0.30	**88.11**	87.15	0.30	**87.45**	86.50	0.30	**86.79**
JACKSON	1,054.12	-	**1,054.12**	1,065.94	-	**1,065.94**	9.23	-	**9.23**	9.33	-	**9.33**	9.42	-	**9.42**	9.52	-	**9.52**	9.61	-	**9.61**
JEFFERSON	-	0.50	**0.50**	0.03	0.55	**0.58**	0.03	0.60	**0.64**	0.04	0.64	**0.67**	0.04	0.67	**0.71**	0.04	0.71	**0.75**	0.05	0.75	**0.80**
LAMAR	-	0.11	**0.11**	-	0.12	**0.12**	-	0.13	**0.13**	-	0.14	**0.14**	-	0.15	**0.15**	-	0.16	**0.16**	-	0.16	**0.16**
LAUDERDALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAWRENCE	60.09	-	**60.09**	53.86	-	**53.86**	49.11	-	**49.11**	46.70	-	**46.70**	44.42	-	**44.42**	42.24	-	**42.24**	40.17	-	**40.17**
LEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMESTONE	2,725.63	-	**2,725.63**	2,496.09	-	**2,496.09**	2,723.72	-	**2,723.72**	2,703.35	-	**2,703.35**	2,683.14	-	**2,683.14**	2,663.08	-	**2,663.08**	2,643.16	-	**2,643.16**
LOWNDES	-	-	-	-	4.56	**4.56**	-	4.61	**4.61**	-	5.02	**5.02**	-	5.48	**5.48**	-	5.98	**5.98**	-	6.52	**6.52**
MACON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARENGO	17.78	-	**17.78**	17.78	-	**17.78**	18.45	-	**18.45**	18.63	-	**18.63**	18.82	-	**18.82**	19.01	-	**19.01**	19.20	-	**19.20**
MARION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL	-	0.08	**0.08**	-	0.09	**0.09**	-	0.12	**0.12**	-	0.13	**0.13**	-	0.13	**0.13**	-	0.14	**0.14**	-	0.15	**0.15**
MOBILE	991.17	7.03	**998.20**	1,002.53	9.65	**1,012.17**	1,232.89	10.90	**1,243.79**	1,302.23	12.16	**1,314.40**	1,375.47	13.63	**1,389.11**	1,452.84	15.34	**1,468.18**	1,534.55	17.33	**1,551.88**
MONROE	46.31	0.39	**46.70**	47.54	0.69	**48.23**	46.02	0.79	**46.81**	48.74	0.89	**49.63**	51.62	1.00	**52.62**	54.67	1.12	**55.80**	57.91	1.26	**59.17**
MONTGOMERY	-	-	-	0.14	2.88	**3.03**	0.13	3.33	**3.46**	0.12	3.55	**3.67**	0.12	3.79	**3.91**	0.11	4.05	**4.16**	0.11	4.32	**4.43**
MORGAN	81.43	0.00	**81.44**	211.28	0.00	**211.28**	229.50	0.01	**229.50**	301.95	0.01	**301.95**	397.80	0.01	**397.81**	524.66	0.01	**524.67**	692.62	0.01	**692.63**
PERRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PICKENS	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
PIKE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSELL	27.64	0.92	**28.56**	27.64	0.92	**28.56**	28.67	0.96	**29.62**	28.96	0.97	**29.92**	29.25	0.98	**30.22**	29.54	0.99	**30.53**	29.84	1.00	**30.83**
SHELBY	665.45	-	**665.45**	672.98	-	**672.98**	827.68	-	**827.68**	874.21	-	**874.21**	923.37	-	**923.37**	975.28	-	**975.28**	1,030.11	-	**1,030.11**
STCLAIR	4.46	-	**4.46**	5.71	-	**5.71**	6.75	-	**6.75**	7.49	-	**7.49**	8.31	-	**8.31**	9.22	-	**9.22**	10.23	-	**10.23**
SUMTER	2.03	-	**2.03**	2.28	-	**2.28**	2.55	-	**2.55**	2.77	-	**2.77**	3.02	-	**3.02**	3.28	-	**3.28**	3.58	-	**3.58**
TALLADEGA	24.67	-	**24.67**	22.12	-	**22.12**	20.17	-	**20.17**	19.18	-	**19.18**	18.24	-	**18.24**	17.34	-	**17.34**	16.49	-	**16.49**
TALLAPOOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUSCALOOSA	2.12	0.74	**2.86**	2.00	0.76	**2.76**	2.36	0.82	**3.18**	2.52	0.91	**3.43**	2.71	1.01	**3.72**	2.91	1.13	**4.04**	3.15	1.26	**4.41**
WALKER	922.82	-	**922.82**	933.26	-	**933.26**	1,147.79	-	**1,147.79**	1,212.32	-	**1,212.32**	1,280.48	-	**1,280.48**	1,352.47	-	**1,352.47**	1,428.52	-	**1,428.52**
WASHINGTON	80.39	6.15	**86.55**	81.66	6.73	**88.39**	99.78	8.66	**108.44**	105.37	9.47	**114.84**	111.28	10.36	**121.64**	117.52	11.33	**128.85**	124.11	12.40	**136.51**
WILCOX	20.13	-	**20.13**	18.05	-	**18.05**	16.46	-	**16.46**	15.65	-	**15.65**	14.88	-	**14.88**	14.15	-	**14.15**	13.46	-	**13.46**
WINSTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	8,744.16	45.64	**8,789.79**	7,399.66	50.81	**7,450.47**	7,684.25	54.10	**7,738.35**	8,007.92	57.79	**8,065.71**	8,379.39	61.92	**8,441.31**	8,809.94	66.56	**8,876.50**

HUC Level Analysis

The HUC level analysis addresses the total water withdrawn by industrial users in each HUC during the 31-year period. Table 9 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each HUC in the State of Alabama based on the International Forecasting Service Deflated GDP data. The results indicate that two HUCs, 06030001 and 06030005, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each HUC. However, some HUCs experience significant increases in water withdrawn during the 31-year period, e.g., 03140304, 0350106, 03150107, 3160109, 3160113, 03160203, and 03160204, with increases of 73 percent, 44 percent, 55 percent, 55 percent, 55 percent, 41 percent, and 55 percent, respectively. The HUCs with the largest water withdrawals are 03150107, 03160109, 03160204, and 06030002, with each HUC having water withdrawals in excess of one billion gallons per day by 2040. In 2040, the water withdrawal for these four HUCs accounts for 83 percent of all water withdrawn.

Table 9: Water Withdrawal (in MGD) by HUC - International Forecasting Service Deflated GDP

	2010			2015			2020			2025			2030			2035			2040		
HUC	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
03130002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03130003	27.64	2.50	**30.14**	27.64	2.25	**29.88**	28.67	2.41	**31.08**	28.96	2.39	**31.35**	29.25	2.37	**31.62**	29.54	2.36	**31.90**	29.84	2.34	**32.18**
03130004	89.20	0.44	**89.64**	81.69	0.57	**82.25**	89.13	0.62	**89.76**	88.47	0.63	**89.10**	87.81	0.64	**88.45**	87.15	0.66	**87.81**	86.50	0.67	**87.17**
03130012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140201	-	0.27	**0.27**	-	1.40	**1.40**	-	1.53	**1.53**	-	1.52	**1.52**	-	1.51	**1.51**	-	1.50	**1.50**	-	1.49	**1.49**
03140202	-	1.13	**1.13**	-	0.95	**0.95**	-	1.04	**1.04**	-	1.02	**1.02**	-	1.00	**1.00**	-	0.98	**0.98**	-	0.96	**0.96**
03140203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140301	1.74	-	**1.74**	1.76	-	**1.76**	2.16	-	**2.16**	2.28	-	**2.28**	2.41	-	**2.41**	2.54	-	**2.54**	2.69	-	**2.69**
03140302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140303	-	0.30	**0.30**	-	0.27	**0.27**	-	0.25	**0.25**	-	0.24	**0.24**	-	0.22	**0.22**	-	0.21	**0.21**	-	0.20	**0.20**
03140304	33.61	1.38	**34.99**	40.92	1.57	**42.48**	44.17	1.76	**45.94**	47.35	1.87	**49.23**	50.76	1.99	**52.75**	54.41	2.12	**56.53**	58.33	2.25	**60.59**
03140305	-	0.09	**0.09**	-	0.09	**0.09**	-	0.10	**0.10**	-	0.11	**0.11**	-	0.12	**0.12**	-	0.13	**0.13**	-	0.14	**0.14**
03150105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150106	152.91	0.97	**153.88**	155.04	0.98	**156.02**	181.50	1.04	**182.55**	190.20	1.06	**191.26**	199.55	1.09	**200.63**	209.59	1.11	**210.69**	220.35	1.13	**221.48**
03150107	665.45	-	**665.45**	672.98	-	**672.98**	827.68	-	**827.68**	874.21	-	**874.21**	923.37	-	**923.37**	975.28	-	**975.28**	1,030.11	-	**1,030.11**
03150108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150201	64.62	10.33	**74.95**	61.44	17.79	**79.23**	60.34	18.68	**79.03**	59.46	19.45	**78.91**	58.65	20.26	**78.91**	57.91	21.14	**79.05**	57.24	22.09	**79.32**
03150202	-	0.16	**0.16**	0.03	0.20	**0.23**	0.03	0.24	**0.27**	0.04	0.26	**0.30**	0.04	0.29	**0.33**	0.04	0.32	**0.37**	0.05	0.36	**0.41**
03150203	20.13	-	**20.13**	18.05	-	**18.05**	16.46	-	**16.46**	15.65	-	**15.65**	14.88	-	**14.88**	14.15	-	**14.15**	13.46	-	**13.46**
03150204	46.31	0.39	**46.70**	47.54	0.69	**48.23**	46.02	0.79	**46.81**	48.74	0.89	**49.63**	51.62	1.00	**52.62**	54.67	1.12	**55.80**	57.91	1.26	**59.17**
03160101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160105	-	0.11	**0.11**	-	0.12	**0.12**	-	0.13	**0.13**	-	0.14	**0.14**	-	0.15	**0.15**	-	0.16	**0.16**	-	0.16	**0.16**
03160106	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
03160107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160109	924.65	0.43	**925.08**	936.04	0.76	**936.81**	1,150.90	0.88	**1,151.77**	1,215.57	0.99	**1,216.56**	1,283.90	1.11	**1,285.00**	1,356.08	1.24	**1,357.32**	1,432.34	1.40	**1,433.73**
03160110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160111	-	0.34	**0.34**	-	0.35	**0.35**	-	0.37	**0.37**	-	0.38	**0.38**	-	0.38	**0.38**	-	0.39	**0.39**	-	0.40	**0.40**
03160112	2.19	0.20	**2.39**	1.70	0.18	**1.88**	2.22	0.18	**2.41**	2.23	0.19	**2.42**	2.25	0.19	**2.44**	2.26	0.20	**2.45**	2.27	0.20	**2.47**
03160113	355.47	0.58	**356.05**	359.59	0.64	**360.23**	442.09	0.70	**442.79**	467.03	0.79	**467.83**	493.39	0.90	**494.29**	521.24	1.02	**522.26**	550.68	1.15	**551.83**
03160201	59.50	-	**59.50**	55.29	-	**55.29**	52.70	-	**52.70**	51.30	-	**51.30**	49.99	-	**49.99**	48.76	-	**48.76**	47.61	-	**47.61**
03160202	1.11	-	**1.11**	1.34	-	**1.34**	1.64	-	**1.64**	1.81	-	**1.81**	2.00	-	**2.00**	2.21	-	**2.21**	2.44	-	**2.44**
03160203	100.60	7.08	**107.68**	99.78	7.86	**107.63**	116.30	9.93	**126.22**	121.08	10.84	**131.92**	126.22	11.84	**138.06**	131.73	12.93	**144.66**	137.62	14.14	**151.76**
03160204	991.17	4.94	**996.11**	1,002.53	6.63	**1,009.16**	1,232.89	7.43	**1,240.31**	1,302.23	8.19	**1,310.42**	1,375.47	9.06	**1,384.54**	1,452.84	10.08	**1,462.92**	1,534.55	11.26	**1,545.81**
03160205	-	1.16	**1.16**	-	1.88	**1.88**	-	2.21	**2.21**	-	2.61	**2.61**	-	3.09	**3.09**	-	3.66	**3.66**	-	4.34	**4.34**
03170002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170009	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**
06020001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030001	1,054.12	0.08	**1,054.20**	1,065.94	0.09	**1,066.03**	9.23	0.12	**9.36**	9.33	0.13	**9.46**	9.42	0.13	**9.56**	9.52	0.14	**9.66**	9.61	0.15	**9.76**
06030002	2,867.15	0.00	**2,867.15**	2,761.23	0.00	**2,761.24**	3,002.33	0.01	**3,002.34**	3,052.00	0.01	**3,052.01**	3,125.35	0.01	**3,125.36**	3,229.98	0.01	**3,229.99**	3,375.95	0.01	**3,375.96**
06030003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030005	1,331.41	0.31	**1,331.72**	1,353.63	0.35	**1,353.98**	93.19	0.36	**93.55**	106.29	0.38	**106.68**	121.60	0.40	**122.00**	139.48	0.42	**139.91**	160.40	0.45	**160.85**
06030006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	8,744.16	45.64	**8,789.79**	7,399.66	50.81	**7,450.47**	7,684.25	54.10	**7,738.35**	8,007.92	57.79	**8,065.71**	8,379.39	61.92	**8,441.31**	8,809.94	66.56	**8,876.50**

Limitations of This Study

Data Limitations

This study has several limitations that are caused by data limitations. The first major limitation resulting from data limitations is the accuracy of the water withdrawal estimates provided by the self-supplied users. If these data are not accurate, then all of the forecasts are compromised. The second major limitation is that the intended usage of water withdrawals by the self-supplied user is unknown. The current survey of self-supplied users does not request that information. Knowledge about the intended usage of the water withdrawal may have a significant impact on the estimation of future water withdrawal and the appropriate metric for estimating future withdrawals. Some water withdrawals are directly related to output because they are integral components of the output, e.g., ice manufacturing enterprise. Other water withdrawals would not be an integral component of the output, e.g., water used by lumber mills to prevent timber from drying prior to processing. A third limitation is the aggregation of the employment and GDP data that are used to calculate the forecasts. Some of the data are aggregated at the national level, and some are aggregated across multiple industries. This aggregation creates potential problems with developing accurate forecasts.

Estimation Methods

The first major limitation that is associated with the estimation methods is that it is highly likely that a singular approach to estimating water withdrawals may not be the most accurate because of the fundamental difference in the nature of water withdrawals. A model that estimates water withdrawal using specific models for NAICS codes may be the most appropriate. A second major limitation is that it is assumed that there will be no changes in the number of self-supplied users. This means that there will be no new COUs after 2013 and no additional terminations after 2016. This has the potential to significantly alter the forecasts because two industrial users that withdraw large amounts of water, TVA Widows Creek Fossil Plant and TVA Colbert Fossil Plant, are being closed during the estimation period. TVA will be replacing these thermo-electric plants, but the exact type of replacement has not been determined. Therefore, the forecasts for water withdrawal underestimate water withdrawals for all time periods after the closure of these two plants. A fourth major limitation is that it is assumed that the current rate of water withdrawal will remain constant for the next 31 years. This is highly unlikely given the innovations and process changes that may occur during that time period. If the rate of usage changes because of technological changes, then the accuracy of the forecasts will be compromised. A fifth major limitation of this study is that it does not address water returns. Most industrial users that withdraw large amounts of water also return large amounts of water. In some cases, this results in negative water usage.

Recommended Areas for Additional Study

There are three areas recommended for additional study. The first is to address the impact of water returns. The current study does not address this, and water returns is an important aspect of water withdrawals for several industries, especially thermo-electric. The second is to address the accuracy of all five methods based on historical data. The assessment of the accuracy of each method has been subjective and based upon logical reasoning. However, sufficient data exists to evaluate the accuracy of the five methods. The third is to identify the water withdrawal driver for industries. The identification of a water withdrawal driver may increase the accuracy of water withdrawal forecasts. The current study has raw data on water withdrawals, but there is no information regarding how the water is used. Knowledge regarding the use of the water, e.g., an integral component of the output versus an item used to clean or cool the finished output.

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Biographical Information of Authors

Dr. Bill Hamby is the Director of Accreditation for the Sorrell College of Business and an Associate Professor of Accounting at Troy University. He earned his Ph.D. in Accounting with a minor in Statistics from the University of Alabama in 1992. He has a B.S. in Accounting and MIS from the University of North Alabama. He has 26 years of full-time teaching experience and has taught at the following institutions: Indiana Wesleyan University, Lincoln Memorial University, Thomas University, Saint Mary's University (Nova Scotia), University of West Georgia, and University of South Alabama. He has served nine years in administration as a Dean, Division Chair, Department Chair, and Director of Accreditation. His primary teaching responsibilities and research interests relate to accounting information systems and managerial accounting. He has published in *Academy of Business Research Journal, The Journal of American Academy of Business (Cambridge), Advances in Accounting Information Systems, Employee Benefits Journal*, and CPA Journal. Dr. Hamby has been active in consulting and currently is a Marketing Executive with Ivy Software.

Dr. Hamby is a native of Alabama but has also lived in Georgia, Tennessee, Indiana, and Nova Scotia. He is married and has three children.

Dr. Judson Edwards is Dean of the Sorrell College of Business at Troy University, Troy, Alabama. Prior to his appointment as Dean, he served as a tenured Associate Professor of Economics and Director of the Center for International Business and Economic Development at Troy University. Dr. Edwards created the vision and established within the college the Center for Water Resource Economics on the Phenix City Campus. In addition to his accomplishments as Dean, he is the author of numerous peer-reviewed publications, including his book *Digital Deliverance: Dragging Rural America, Kicking and Screaming, Into the Information Economy*. He received a B.S. in Economics from Troy University and M.S. and Ph.D. in International Economic Development from The University of Southern Mississippi. Before returning to his alma mater, Dr. Edwards served as Director of the Economic Development Master's Program and tenure-track faculty at The University of Southern Mississippi. He also served as tenure-track faculty at the University of North Dakota. Before assuming administrative duties as Dean, he held the positions of Senior Editorial Advisor to *Applied Research in Economic Development: Journal of the Council of Community and Economic Research*, Managing Editor of *The Economic Development Review: Journal of the American Economic Development Council* and Editorial Board Member of Community Development: *Journal of the Community Development Society*. Dr. Edwards is a former member of the Agriculture Advisory Board of the Federal Reserve Bank of Atlanta and previously served on the Special Advisory Committee of the Alabama Rural Action Commission and the Alabama Rural Broadband Initiative under former Governor Bob Riley.

He and wife Stacy are from Phenix City, Alabama and have two children, Carter and Maggie.

Appendix A

Water Withdrawal Forecasts based on University of Alabama Employment Data

State Level Analysis

Ground Water Withdrawals

Table A-1 provides a breakdown of ground water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the University of Alabama Study using employment data. The forecasts indicate that Thermo-electric, Petrochemical, and Other Manufacturing will experience significant increases in ground water withdrawal, with increases of 89 percent, 74 percent, and 75 percent, respectively. Mining, Pulp and Paper, and Wholesale will experience modest increases of 15 percent, 11 percent, and four percent, respectively. Total ground water withdrawals are forecast to increase by 52 percent.

Table A-1: Ground Water Withdrawals (in MGD)

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	0.24	0.26	0.27	0.27	0.27	0.27	0.27
Thermo-electric	0.20	0.36	0.38	0.38	0.39	0.38	0.38
Pulp and Paper	11.78	12.45	12.91	12.99	12.99	13.04	13.13
Petrochemical	10.96	16.30	17.24	17.70	18.08	18.53	19.04
Other Manufacturing	10.01	14.73	15.63	16.09	16.49	16.96	17.50
Wholesale	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	33.20	44.12	46.44	47.45	48.24	49.20	50.34

Chart A-1.1: Self-Supplied Ground Water Withdrawals (in MGD) 2010: University of Alabama Employment

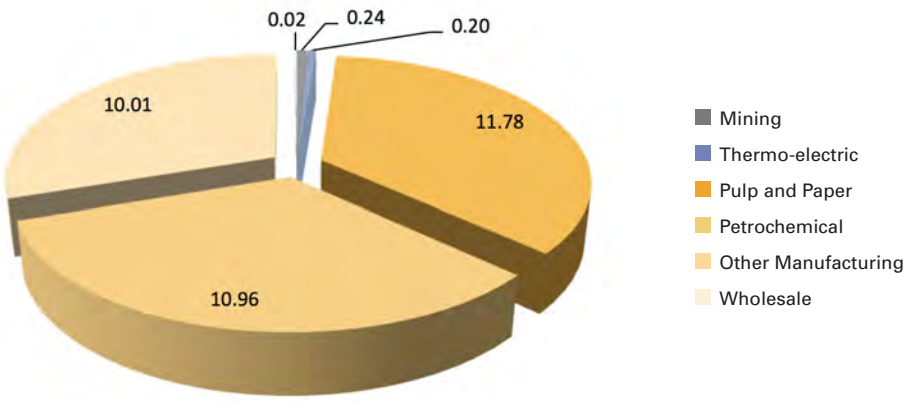
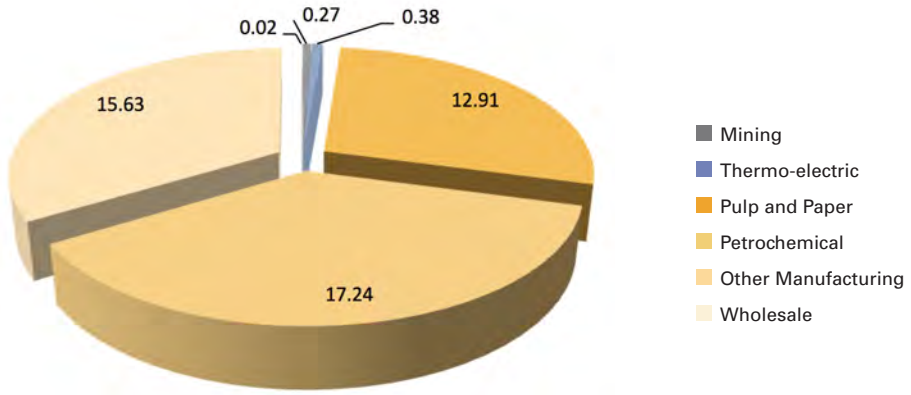


Chart A-1.2: Self-Supplied Ground Water Withdrawals (in MGD) 2020: University of Alabama Employment



The following charts, Chart A-1.1 – Chart A-1.4, provide the breakdown of ground water withdrawals by the type of industrial user based on the University of Alabama Study using employment data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of ground water withdrawn by Pulp and Paper industrial users declines, while the proportion of ground water withdrawn by Petrochemical and Other Manufacturing industrial users increases. This is consistent with the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart A-1.3: Self-Supplied Ground Water Withdrawals (in MGD) 2030: University of Alabama Employment

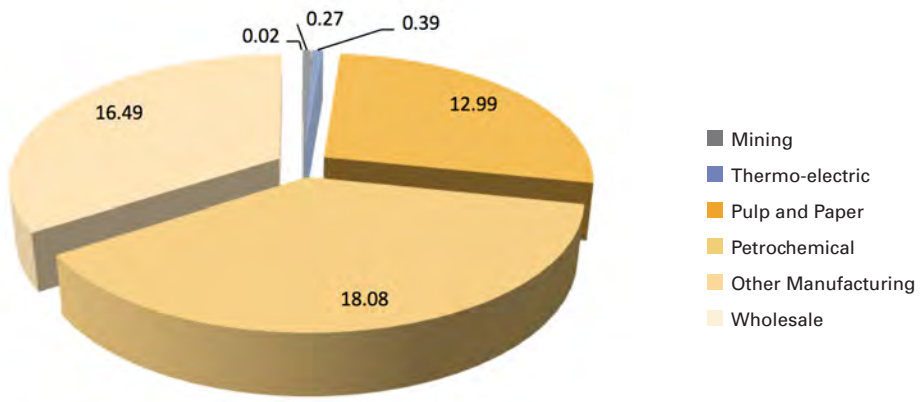
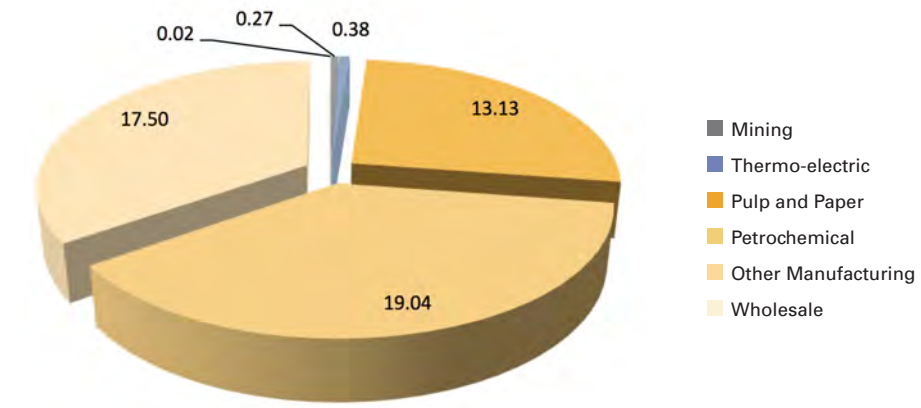


Chart A-1.4: Self-Supplied Ground Water Withdrawals (in MGD) 2040: University of Alabama Employment



Surface Water Withdrawals

Table A-2 provides a breakdown of surface water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the University of Alabama Study using employment data. The forecasts indicate that Mining, Pulp and Paper, Petrochemical, and Other Manufacturing will experience moderate increases in surface water withdrawal, with increases of five percent, 14 percent, 16 percent, and 34 percent, respectively. Thermo-electric will experience an 18 percent decline. Total surface water withdrawals are forecast to decrease by 16 percent.

Table A-2: Surface Water Withdrawal Data (in MGD) - University of Alabama Employment

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.30	3.29	3.41	3.44	3.44	3.45	3.46
Thermo-electric	8,251.64	8,937.56	6,826.03	6,912.00	7,004.59	6,924.01	6,780.41
Pulp and Paper	369.99	387.53	404.34	409.40	412.01	416.44	422.10
Petrochemical	140.28	155.57	161.12	161.70	161.37	161.57	162.13
Other Manufacturing	23.77	28.79	30.16	30.64	30.97	31.40	31.95
Wholesale	-	0.03	0.03	0.03	0.03	0.03	0.03
Total	8,788.97	9,512.77	7,425.10	7,517.21	7,612.40	7,536.90	7,400.09

The following charts, Chart A-2.1 – Chart A-2.4, provide the breakdown of surface water withdrawals by the type of industrial user based on the University of Alabama Study using employment data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of surface water withdrawn by Thermo-electric industrial users declines, while the proportion of surface water withdrawn by Petrochemical, Other Manufacturing, and Pulp and Paper industrial users increases. This is consistent with closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart A-2.1: Self-Supplied Surface Water Withdrawals (in MGD) 2010: University of Alabama Employment

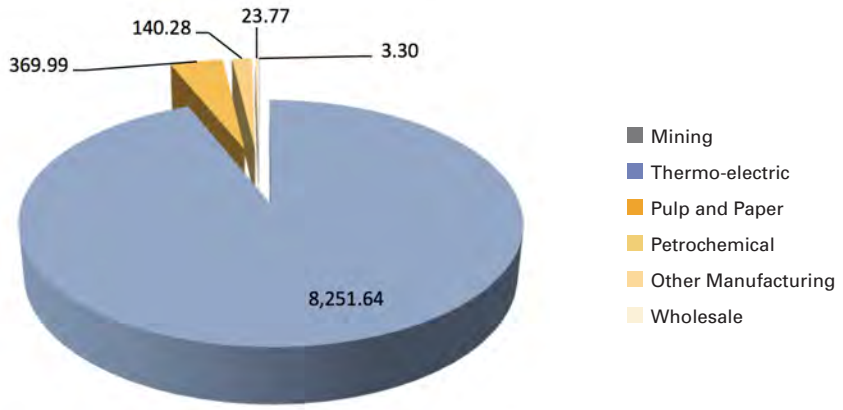


Chart A-2.2: Self-Supplied Surface Water Withdrawals (in MGD) 2020: University of Alabama Employment

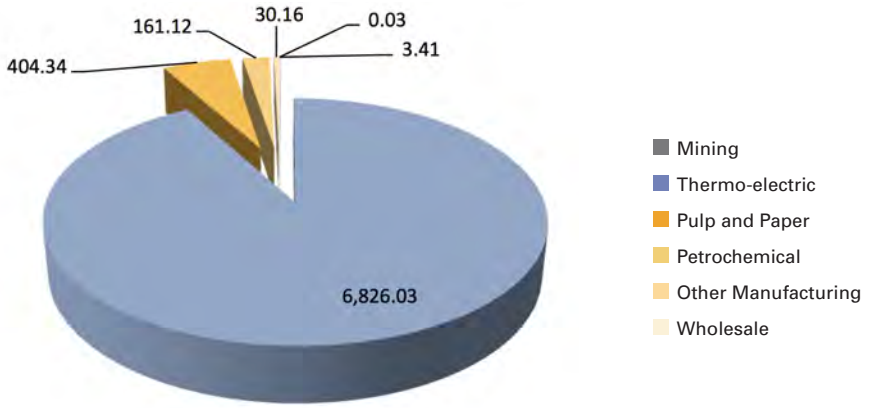


Chart A-2.3: Self-Supplied Surface Water Withdrawals (in MGD) 2030: University of Alabama Employment

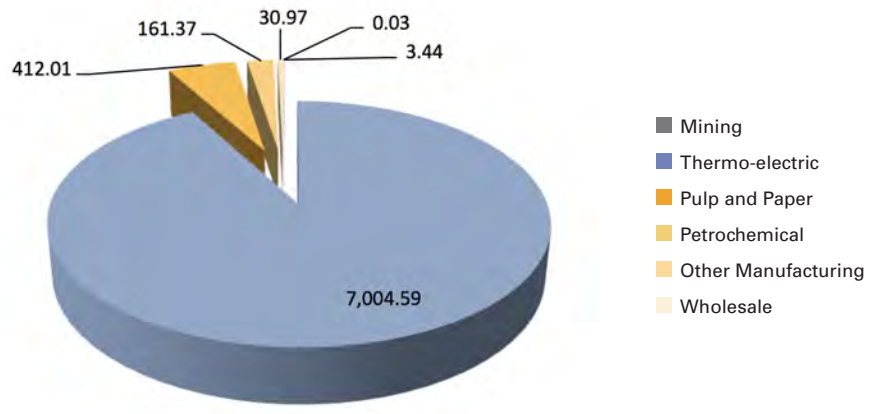
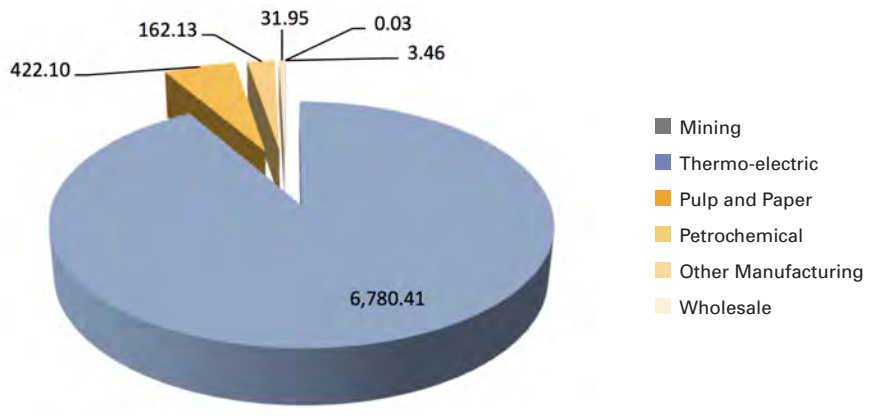


Chart A-2.4: Self-Supplied Surface Water Withdrawals (in MGD) 2040: University of Alabama Employment



Total Water Withdrawals

Table A-3 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the University of Alabama Study using employment data. The forecasts indicate that Mining, Pulp and Paper, Petrochemical, and Other Manufacturing will experience moderate increases in total water withdrawal, with increases of six percent, 14 percent, 20 percent, and 46 percent, respectively. Thermo-electric will experience an 18 percent decline, and Wholesale will experience a 161 percent increase.

Table A-3: Total Water Withdrawal Data (in MGD) - University of Alabama Employment

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.53	3.55	3.68	3.71	3.71	3.72	3.73
Thermo-electric	8,251.84	8,937.92	6,826.41	6,912.39	7,004.97	6,924.39	6,780.79
Pulp and Paper	381.77	399.98	417.25	422.39	425.00	429.48	435.23
Petrochemical	151.24	171.88	178.36	179.39	179.45	180.11	181.17
Other Manufacturing	33.78	43.52	45.79	46.74	47.46	48.36	49.45
Wholesale	0.02	0.04	0.05	0.05	0.05	0.05	0.05
Total	8,822.17	9,556.89	7,471.54	7,564.66	7,660.64	7,586.10	7,450.42

Chart A-3.1: Self-Supplied Total Water Withdrawals (in MGD) 2010: University of Alabama Employment

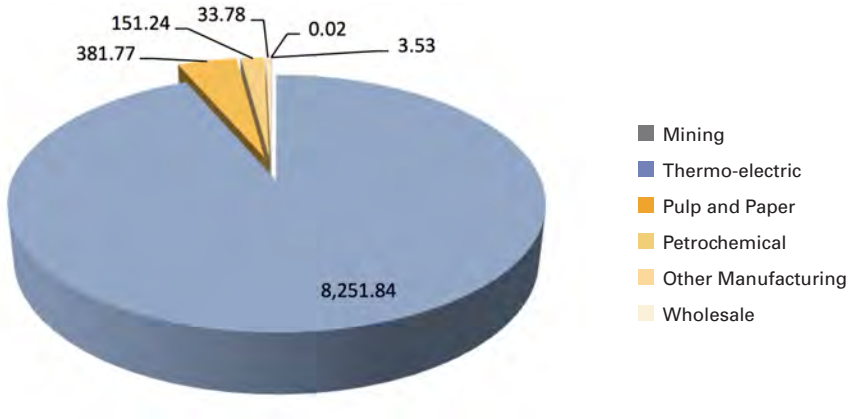
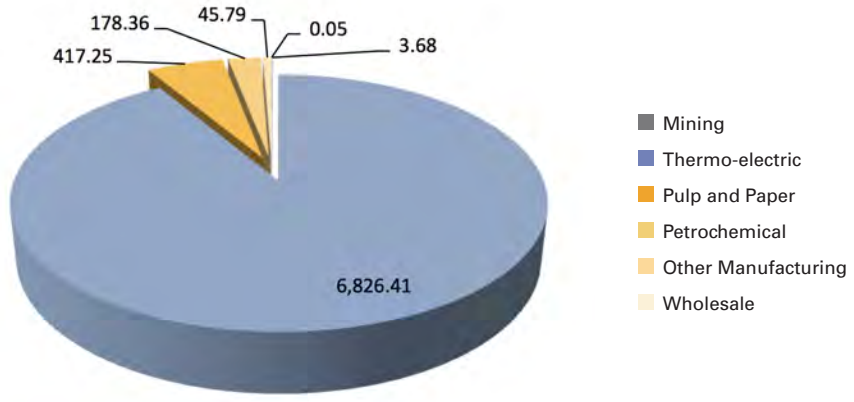


Chart A-3.2: Self-Supplied Total Water Withdrawals (in MGD) 2020: University of Alabama Employment



The following charts, Chart A-3.1 – Chart A-3.4, provide the breakdown of total water withdrawals by the type of industrial user based on the University of Alabama Study using employment data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of total water withdrawn by Thermo-electric industrial users declines, while the proportion of total water withdrawn by Petrochemical, Pulp and Paper, and Other Manufacturing industrial users increases. This is consistent with the closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart A-3.3: Self-Supplied Total Water Withdrawals (in MGD) 2030: University of Alabama Employment

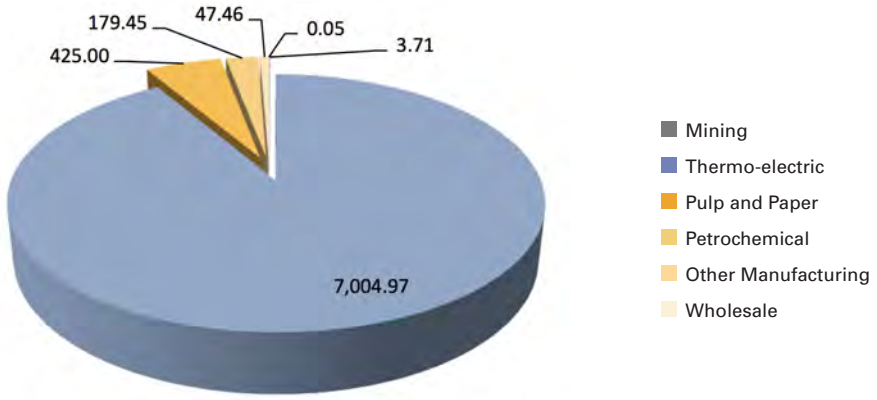


Chart A-3.4: Self-Supplied Total Water Withdrawals (in MGD) 2040: University of Alabama Employment

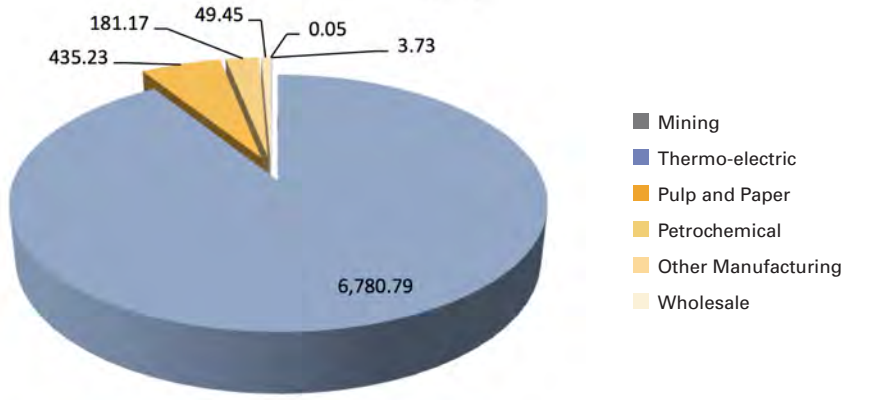
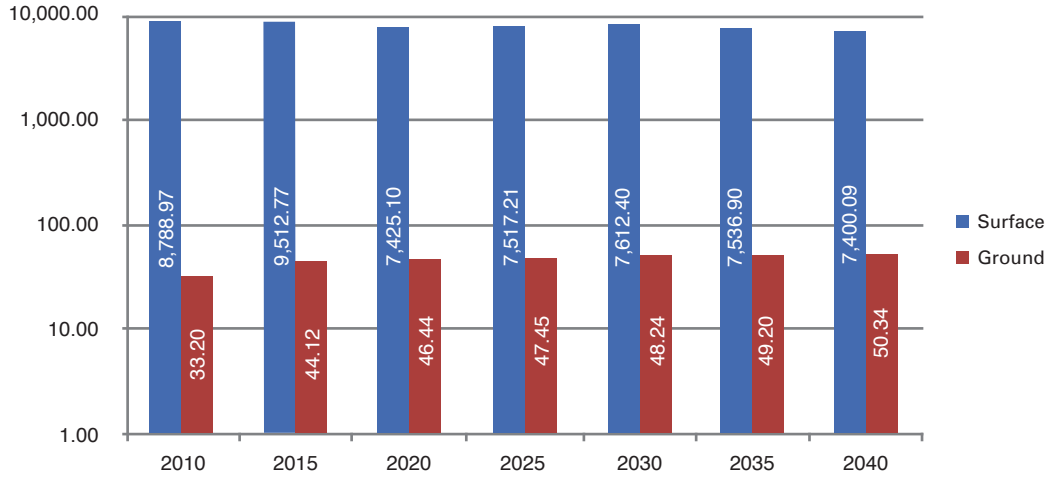


Table A-4 and Chart A-4 provide a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the water source based on the University of Alabama Study using Employment data. The forecast indicates that approximately 99 percent of water withdrawn is surface water. Ground water is projected to increase by 52 percent during the 31-year period; whereas, surface water is expected to decrease by 16 percent. Thermo-electric is the largest user of surface water, and the closing of the two TVA plants significantly impacts the surface water withdrawn.

Table A-4: Total Water Withdrawal Data (in MGD) - University of Alabama Employment

	YEAR						
Water Source	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Ground	33.20	44.12	46.44	47.45	48.24	49.20	50.34
Surface	8,788.97	9,512.77	7,425.10	7,517.21	7,612.40	7,536.90	7,400.09
Total	8,822.17	9,556.89	7,471.54	7,564.66	7,660.64	7,586.10	7,450.42

Chart A-4: Self-Supplied Total Water Withdrawal (in MGD) 2010-2040: University of Alabama Employment



County Level Analysis

The county-level analysis addresses the total water withdrawn by industrial users in each county during the 31-year period. Table A-5 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each county in the State of Alabama based on the University of Alabama Study using Employment data. The results indicate that two counties, Colbert and Jackson, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each county. However, some counties experience significant increases in water withdrawn during the 31-year period, e.g., Shelby, with an increase of 41 percent. The counties with the largest water withdrawals are Limestone, Walker, Mobile, and Shelby, with each county having water withdrawals in excess of 900 million gallons per day by 2040. In 2040, the water withdrawal for these four counties accounts for 82 percent of all water withdrawn.

HUC Level Analysis

The HUC level analysis addresses the total water withdrawn by industrial users in each HUC during the 31-year period. Table A-6 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each HUC in the State of Alabama based on the University of Alabama Study using employment data. The results indicate that two HUCs, 06030001 and 06030005, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each HUC. However, some HUCs experience significant increases in water withdrawn during the 31-year period, e.g., 03150107, with an increase of 41 percent. The HUCs with the largest water withdrawals are 03150107, 03160109, 03160204, and 06030002, with each HUC having water withdrawals in excess of 930 million gallons per day by 2040. In 2040, the water withdrawal for these four HUCs accounts for 84 percent of all water withdrawn.

Table A-5: Water Withdrawal (in MGD) by County - University of Alabama Employment

	2010			2015			2020			2025			2030			2035			2040		
COUNTY	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
AUTAUGA	32.42	9.84	**42.26**	33.87	10.27	**44.14**	35.10	10.64	**45.74**	35.29	10.69	**45.98**	35.26	10.67	**45.93**	35.28	10.69	**45.97**	35.41	10.74	**46.15**
BALDWIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARBOUR	-	1.58	**1.58**	-	1.47	**1.47**	-	1.53	**1.53**	-	1.54	**1.54**	-	1.55	**1.55**	-	1.56	**1.56**	-	1.57	**1.57**
BIBB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOUNT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BULLOCK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTLER	-	0.30	**0.30**	-	0.36	**0.36**	-	0.39	**0.39**	-	0.40	**0.40**	-	0.41	**0.41**	-	0.42	**0.42**	-	0.43	**0.43**
CALHOUN	-	0.97	**0.97**	-	0.99	**0.99**	-	1.04	**1.04**	-	1.06	**1.06**	-	1.07	**1.07**	-	1.08	**1.08**	-	1.10	**1.10**
CHAMBERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILTON	-	0.35	**0.35**	-	0.40	**0.40**	-	0.42	**0.42**	-	0.43	**0.43**	-	0.43	**0.43**	-	0.44	**0.44**	-	0.45	**0.45**
CHOCTAW	40.80	-	**40.80**	41.68	-	**41.68**	42.93	-	**42.93**	42.88	-	**42.88**	42.58	-	**42.58**	42.44	-	**42.44**	42.38	-	**42.38**
CLARKE	20.21	-	**20.21**	20.27	-	**20.27**	21.46	-	**21.46**	22.03	-	**22.03**	22.52	-	**22.52**	23.08	-	**23.08**	23.73	-	**23.73**
CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEBURNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COFFEE	-	1.13	**1.13**	-	2.35	**2.35**	-	2.50	**2.50**	-	2.59	**2.59**	-	2.66	**2.66**	-	2.75	**2.75**	-	2.85	**2.85**
COLBERT	1,331.41	0.31	**1,331.72**	1,434.10	0.36	**1,434.46**	84.02	0.37	**84.39**	84.11	0.37	**84.48**	83.67	0.37	**84.04**	83.49	0.37	**83.86**	83.44	0.37	**83.81**
CONECUH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COVINGTON	1.74	-	**1.74**	1.86	-	**1.86**	1.97	-	**1.97**	2.00	-	**2.00**	2.03	-	**2.03**	2.01	-	**2.01**	1.97	-	**1.97**
CRENSHAW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULLMAN	1.83	0.43	**2.26**	2.97	0.47	**3.44**	3.10	0.49	**3.59**	3.14	0.49	**3.64**	3.18	0.50	**3.68**	3.24	0.51	**3.75**	3.31	0.52	**3.84**
DALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS	32.20	0.14	**32.34**	33.15	0.14	**33.29**	34.53	0.15	**34.68**	34.98	0.15	**35.13**	35.30	0.15	**35.45**	35.82	0.15	**35.97**	36.47	0.15	**36.62**
DEKALB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELMORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESCAMBIA	33.61	1.47	**35.08**	37.98	1.65	**39.63**	39.95	1.74	**41.69**	40.74	1.77	**42.51**	41.29	1.79	**43.09**	41.94	1.82	**43.76**	42.75	1.86	**44.60**
ETOWAH	123.78	-	**123.78**	124.88	-	**124.88**	131.38	-	**131.38**	132.64	-	**132.64**	134.52	-	**134.52**	133.36	-	**133.36**	131.17	-	**131.17**
FAYETTE	1.10	-	**1.10**	1.02	-	**1.02**	1.04	-	**1.04**	1.03	-	**1.03**	1.01	-	**1.01**	1.00	-	**1.00**	0.98	-	**0.98**
FRANKLIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GENEVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE	354.43	0.03	**354.46**	379.98	0.03	**380.01**	402.20	0.03	**402.24**	408.20	0.04	**408.24**	414.60	0.04	**414.63**	410.39	0.04	**410.42**	402.56	0.04	**402.60**
HALE	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**
HENRY	-	0.54	**0.54**	-	0.55	**0.55**	-	0.58	**0.58**	-	0.60	**0.60**	-	0.61	**0.61**	-	0.63	**0.63**	-	0.64	**0.64**
HOUSTON	89.20	0.17	**89.37**	95.63	0.32	**95.95**	101.22	0.34	**101.56**	102.73	0.35	**103.07**	104.34	0.35	**104.69**	103.28	0.35	**103.63**	101.31	0.34	**101.65**
JACKSON	1,054.12	-	**1,054.12**	1,129.85	-	**1,129.85**	9.68	-	**9.68**	9.78	-	**9.78**	9.85	-	**9.85**	9.96	-	**9.96**	10.11	-	**10.11**
JEFFERSON	-	0.50	**0.50**	0.03	0.52	**0.54**	0.03	0.54	**0.57**	0.03	0.54	**0.57**	0.03	0.54	**0.57**	0.03	0.55	**0.58**	0.03	0.55	**0.58**
LAMAR	-	0.11	**0.11**	-	0.13	**0.13**	-	0.13	**0.13**	-	0.13	**0.13**	-	0.14	**0.14**	-	0.14	**0.14**	-	0.14	**0.14**
LAUDERDALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAWRENCE	60.09	-	**60.09**	63.64	-	**63.64**	66.59	-	**66.59**	67.64	-	**67.64**	67.93	-	**67.93**	68.57	-	**68.57**	69.55	-	**69.55**
LEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMESTONE	2,725.63	-	**2,725.63**	2,922.09	-	**2,922.09**	3,093.00	-	**3,093.00**	3,139.14	-	**3,139.14**	3,188.32	-	**3,188.32**	3,155.94	-	**3,155.94**	3,095.75	-	**3,095.75**
LOWNDES	-	-	-	-	4.29	**4.29**	-	4.50	**4.50**	-	4.59	**4.59**	-	4.66	**4.66**	-	4.75	**4.75**	-	4.83	**4.83**
MACON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARENGO	17.78	-	**17.78**	17.23	-	**17.23**	17.91	-	**17.91**	18.05	-	**18.05**	18.11	-	**18.11**	18.20	-	**18.20**	18.33	-	**18.33**
MARION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL	-	0.08	**0.08**	-	0.08	**0.08**	-	0.09	**0.09**	-	0.09	**0.09**	-	0.09	**0.09**	-	0.09	**0.09**	-	0.09	**0.09**
MOBILE	991.17	7.03	**998.20**	1,020.10	8.69	**1,028.79**	1,056.58	9.40	**1,065.98**	1,050.23	9.87	**1,060.10**	1,046.43	10.29	**1,056.72**	1,017.98	10.75	**1,028.74**	982.07	11.27	**993.34**
MONROE	46.31	0.39	**46.70**	43.61	0.36	**43.97**	45.64	0.38	**46.02**	46.28	0.39	**46.67**	46.69	0.39	**47.08**	47.36	0.40	**47.76**	47.96	0.40	**48.36**
MONTGOMERY	-	-	-	0.16	2.40	**2.56**	0.17	2.56	**2.72**	0.17	2.64	**2.81**	0.18	2.72	**2.89**	0.18	2.81	**2.99**	0.19	2.91	**3.10**
MORGAN	81.43	0.00	**81.44**	87.43	0.00	**87.44**	90.70	0.00	**90.70**	91.21	0.00	**91.22**	91.31	0.00	**91.31**	91.59	0.00	**91.60**	92.07	0.00	**92.08**
PERRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PICKENS	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
PIKE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSELL	27.64	0.92	**28.56**	32.24	1.07	**33.31**	33.28	1.11	**34.39**	33.43	1.11	**34.54**	33.48	1.12	**34.60**	33.76	1.12	**34.88**	34.16	1.14	**35.30**
SHELBY	665.45	-	**665.45**	855.49	-	**855.49**	913.28	-	**913.28**	933.95	-	**933.95**	953.34	-	**953.34**	952.17	-	**952.17**	939.12	-	**939.12**
STCLAIR	4.46	-	**4.46**	5.35	-	**5.35**	5.62	-	**5.62**	5.72	-	**5.72**	5.79	-	**5.79**	5.88	-	**5.88**	5.98	-	**5.98**
SUMTER	2.03	-	**2.03**	1.93	-	**1.93**	1.99	-	**1.99**	1.99	-	**1.99**	1.97	-	**1.97**	1.97	-	**1.97**	1.96	-	**1.96**
TALLADEGA	24.67	-	**24.67**	27.45	-	**27.45**	29.09	-	**29.09**	29.93	-	**29.93**	30.63	-	**30.63**	31.42	-	**31.42**	32.28	-	**32.28**
TALLAPOOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUSCALOOSA	2.12	0.74	**2.86**	2.19	0.76	**2.95**	2.32	0.81	**3.14**	2.40	0.85	**3.25**	2.47	0.88	**3.35**	2.55	0.92	**3.47**	2.64	0.96	**3.60**
WALKER	922.82	-	**922.82**	989.34	-	**989.34**	1,047.20	-	**1,047.20**	1,062.82	-	**1,062.82**	1,079.47	-	**1,079.47**	1,068.51	-	**1,068.51**	1,048.13	-	**1,048.13**
WASHINGTON	80.39	6.15	**86.55**	86.04	6.41	**92.45**	90.99	6.67	**97.66**	92.32	6.75	**99.07**	93.72	6.79	**100.51**	92.88	6.86	**99.74**	91.28	6.95	**98.24**
WILCOX	20.13	-	**20.13**	21.24	-	**21.24**	22.12	-	**22.12**	22.32	-	**22.32**	22.40	-	**22.40**	22.64	-	**22.64**	22.98	-	**22.98**
WINSTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	9,512.77	44.12	**9,556.89**	7,425.10	46.44	**7,471.54**	7,517.21	47.45	**7,564.66**	7,612.40	48.24	**7,660.64**	7,536.90	49.20	**7,586.10**	7,400.09	50.34	**7,450.42**

Table A-6: Water Withdrawal (in MGD) by HUC - University of Alabama Employment

	2010			2015			2020			2025			2030			2035			2040		
HUC	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
03130002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03130003	27.64	2.50	**30.14**	32.24	2.55	**34.79**	33.28	2.64	**35.92**	33.43	2.66	**36.09**	33.48	2.66	**36.15**	33.76	2.68	**36.44**	34.16	2.71	**36.87**
03130004	89.20	0.44	**89.64**	95.63	0.60	**96.22**	101.22	0.63	**101.85**	102.73	0.65	**103.37**	104.34	0.66	**105.00**	103.28	0.66	**103.94**	101.31	0.66	**101.97**
03130012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140201	-	0.27	**0.27**	-	1.42	**1.42**	-	1.51	**1.51**	-	1.56	**1.56**	-	1.60	**1.60**	-	1.65	**1.65**	-	1.71	**1.71**
03140202	-	1.13	**1.13**	-	1.21	**1.21**	-	1.28	**1.28**	-	1.33	**1.33**	-	1.37	**1.37**	-	1.41	**1.41**	-	1.46	**1.46**
03140203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140301	1.74	-	**1.74**	1.86	-	**1.86**	1.97	-	**1.97**	2.00	-	**2.00**	2.03	-	**2.03**	2.01	-	**2.01**	1.97	-	**1.97**
03140302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140303	-	0.30	**0.30**	-	0.36	**0.36**	-	0.39	**0.39**	-	0.40	**0.40**	-	0.41	**0.41**	-	0.42	**0.42**	-	0.43	**0.43**
03140304	33.61	1.38	**34.99**	37.98	1.56	**39.53**	39.95	1.64	**41.59**	40.74	1.67	**42.41**	41.29	1.69	**42.98**	41.94	1.72	**43.66**	42.75	1.75	**44.50**
03140305	-	0.09	**0.09**	-	0.10	**0.10**	-	0.10	**0.10**	-	0.10	**0.10**	-	0.10	**0.10**	-	0.10	**0.10**	-	0.10	**0.10**
03150105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150106	152.91	0.97	**153.88**	157.68	0.99	**158.67**	166.09	1.04	**167.13**	168.29	1.06	**169.34**	170.94	1.07	**172.00**	170.65	1.08	**171.73**	169.43	1.10	**170.53**
03150107	665.45	-	**665.45**	855.49	-	**855.49**	913.28	-	**913.28**	933.95	-	**933.95**	953.34	-	**953.34**	952.17	-	**952.17**	939.12	-	**939.12**
03150108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150201	64.62	10.33	**74.95**	67.17	17.51	**84.68**	69.80	18.26	**88.06**	70.44	18.49	**88.94**	70.73	18.63	**89.37**	71.29	18.83	**90.12**	72.07	19.07	**91.15**
03150202	-	0.16	**0.16**	0.03	0.16	**0.19**	0.03	0.17	**0.20**	0.03	0.17	**0.20**	0.03	0.17	**0.20**	0.03	0.17	**0.20**	0.03	0.17	**0.20**
03150203	20.13	-	**20.13**	21.24	-	**21.24**	22.12	-	**22.12**	22.32	-	**22.32**	22.40	-	**22.40**	22.64	-	**22.64**	22.98	-	**22.98**
03150204	46.31	0.39	**46.70**	43.61	0.36	**43.97**	45.64	0.38	**46.02**	46.28	0.39	**46.67**	46.69	0.39	**47.08**	47.36	0.40	**47.76**	47.96	0.40	**48.36**
03160101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160105	-	0.11	**0.11**	-	0.13	**0.13**	-	0.13	**0.13**	-	0.13	**0.13**	-	0.14	**0.14**	-	0.14	**0.14**	-	0.14	**0.14**
03160106	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
03160107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160109	924.65	0.43	**925.08**	992.31	0.47	**992.77**	1,050.30	0.49	**1,050.79**	1,065.97	0.49	**1,066.46**	1,082.65	0.50	**1,083.15**	1,071.75	0.51	**1,072.26**	1,051.45	0.52	**1,051.97**
03160110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160111	-	0.34	**0.34**	-	0.35	**0.35**	-	0.37	**0.37**	-	0.37	**0.37**	-	0.37	**0.37**	-	0.38	**0.38**	-	0.38	**0.38**
03160112	2.19	0.20	**2.39**	2.13	0.21	**2.34**	2.21	0.22	**2.44**	2.24	0.23	**2.47**	2.24	0.24	**2.48**	2.26	0.25	**2.51**	2.27	0.26	**2.53**
03160113	355.47	0.58	**356.05**	381.05	0.60	**381.66**	403.35	0.65	**404.00**	409.40	0.67	**410.07**	415.84	0.70	**416.53**	411.68	0.72	**412.40**	403.92	0.75	**404.67**
03160201	59.50	-	**59.50**	59.68	-	**59.68**	61.63	-	**61.63**	61.72	-	**61.72**	61.46	-	**61.46**	61.41	-	**61.41**	61.48	-	**61.48**
03160202	1.11	-	**1.11**	1.16	-	**1.16**	1.20	-	**1.20**	1.20	-	**1.20**	1.19	-	**1.19**	1.19	-	**1.19**	1.19	-	**1.19**
03160203	100.60	7.08	**107.68**	106.31	7.49	**113.80**	112.45	7.84	**120.29**	114.36	7.97	**122.33**	116.24	8.07	**124.31**	115.96	8.19	**124.15**	115.01	8.35	**123.37**
03160204	991.17	4.94	**996.11**	1,020.10	6.26	**1,026.37**	1,056.58	6.79	**1,063.37**	1,050.23	7.13	**1,057.36**	1,046.43	7.44	**1,053.87**	1,017.98	7.78	**1,025.76**	982.07	8.16	**990.23**
03160205	-	1.16	**1.16**	-	1.34	**1.34**	-	1.45	**1.45**	-	1.52	**1.52**	-	1.57	**1.57**	-	1.64	**1.64**	-	1.71	**1.71**
03170002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170009	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**
06020001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030001	1,054.12	0.08	**1,054.20**	1,129.85	0.08	**1,129.94**	9.68	0.09	**9.77**	9.78	0.09	**9.86**	9.85	0.09	**9.94**	9.96	0.09	**10.05**	10.11	0.09	**10.20**
06030002	2,867.15	0.00	**2,867.15**	3,073.17	0.00	**3,073.17**	3,250.29	0.00	**3,250.30**	3,297.99	0.00	**3,298.00**	3,347.56	0.00	**3,347.56**	3,316.11	0.00	**3,316.11**	3,257.38	0.00	**3,257.38**
06030003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030005	1,331.41	0.31	**1,331.72**	1,434.10	0.36	**1,434.46**	84.02	0.37	**84.39**	84.11	0.37	**84.48**	83.67	0.37	**84.04**	83.49	0.37	**83.86**	83.44	0.37	**83.81**
06030006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	9,512.77	44.12	**9,556.89**	7,425.10	46.44	**7,471.54**	7,517.21	47.45	**7,564.66**	7,612.40	48.24	**7,660.64**	7,536.90	49.20	**7,586.10**	7,400.09	50.34	**7,450.42**

Appendix B

Water Withdrawal Forecasts based on EMSI Employment Data

State Level Analysis

Ground Water Withdrawals

Table B-1 provides a breakdown of ground water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the EMSI employment data. The forecasts indicate that Mining and Other Manufacturing will experience significant increases in ground water withdrawal, with increases of 585 percent and 103 percent, respectively. Thermo-electric, Pulp and Paper, and Petrochemical will experience modest increases of seven percent, 38 percent, and 17 percent, respectively. Wholesale does not experience a change. Total ground water withdrawals are forecast to increase by 54 percent.

Table B-1: Ground Water Withdrawal Data (in MGD) - EMSI Employment

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	0.24	0.63	0.81	0.91	1.10	1.34	1.63
Thermo-electric	0.20	0.19	0.20	0.20	0.20	0.21	0.21
Pulp and Paper	11.78	14.31	14.76	14.97	15.36	15.79	16.25
Petrochemical	10.96	15.46	14.13	14.16	13.65	13.22	12.87
Other Manufacturing	10.01	15.09	15.45	16.37	17.39	18.69	20.29
Wholesale	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Total	33.20	45.69	45.37	46.62	47.72	49.26	51.26

Chart B-1.1: Self-Supplied Ground Water Withdrawals (in MGD) 2010: EMSI Employment

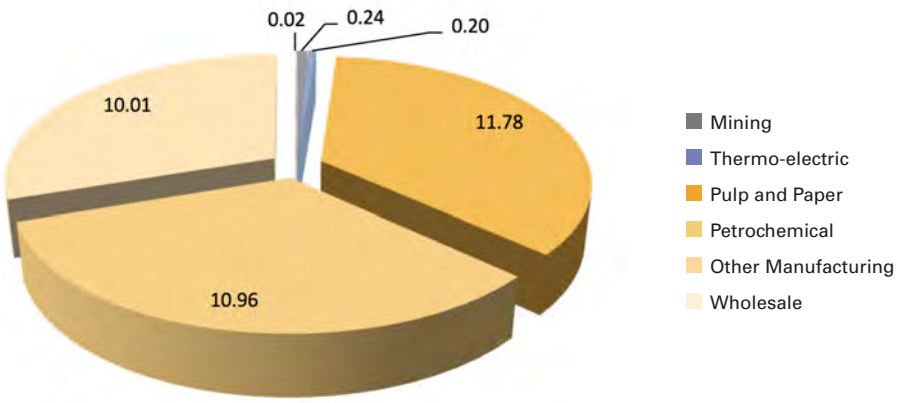
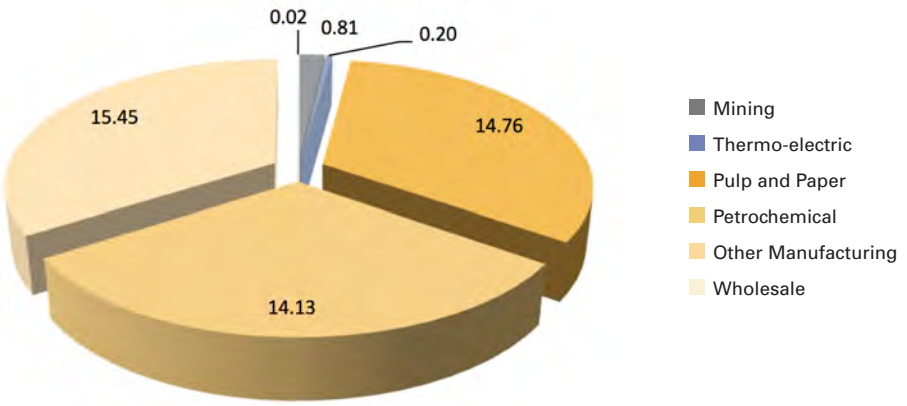


Chart B-1.2: Self-Supplied Ground Water Withdrawals (in MGD) 2020: EMSI Employment



The following charts, Chart B-1.1 – Chart B-1.4, provide the breakdown of ground water withdrawals by the type of industrial user based on the EMSI employment data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that the during the 31-year period, the proportion of ground water withdrawn by Petrochemical and Pulp and Paper industrial users declines, while the proportion of ground water withdrawn by Other Manufacturing industrial users increases. This is partially consistent with the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart B-1.3: Self-Supplied Ground Water Withdrawals (in MGD) 2030: EMSI Employment

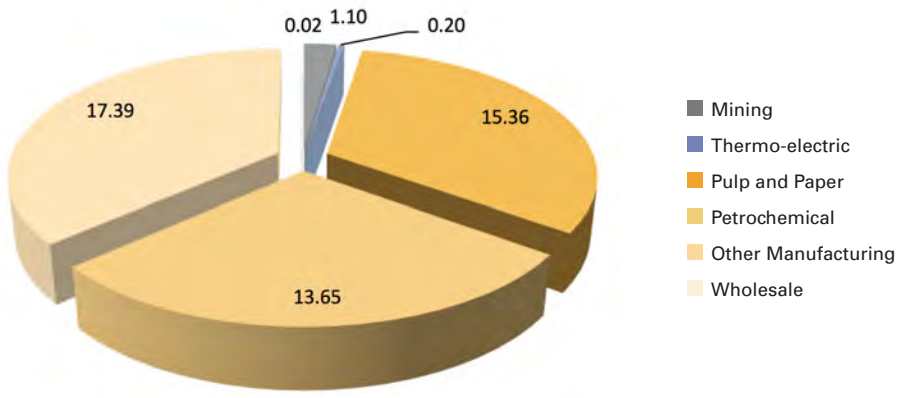
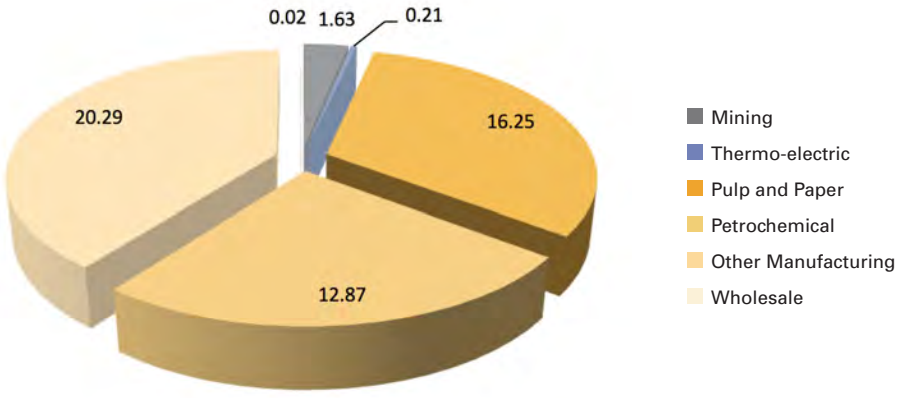


Chart B-1.4: Self-Supplied Ground Water Withdrawals (in MGD) 2040: EMSI Employment



Surface Water Withdrawals

Table B-2 provides a breakdown of surface water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the EMSI employment data. The forecasts indicate that Thermo-electric, Pulp and Paper, and Petrochemical will experience significant decreases in surface water withdrawal, with decreases of 30 percent, 28 percent, and 18 percent, respectively. Mining will experience a 15 percent increase, and Other Manufacturing and Wholesale will experience a 109 percent increase. Total surface water withdrawals are forecast to decrease by 30 percent.

Table B-2: Surface Water Withdrawal Data (in MGD) - EMSI Employment

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.30	3.03	3.23	3.30	3.45	3.62	3.80
Thermo-electric	8,251.64	8,158.41	5,623.71	5,638.74	5,646.84	5,682.42	5,746.45
Pulp and Paper	369.99	319.55	294.24	277.66	270.26	267.45	268.01
Petrochemical	140.28	148.86	133.75	128.79	122.42	117.80	114.54
Other Manufacturing	23.77	33.07	34.31	37.96	41.19	45.04	49.61
Wholesale	-	0.03	0.03	0.03	0.03	0.03	0.03
Total	8,788.97	8,662.95	6,089.28	6,086.49	6,084.19	6,116.35	6,182.44

The following charts, Chart B-2.1 – Chart B-2.4, provide the breakdown of surface water withdrawals by the type of industrial user based on the EMSI employment data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of surface water withdrawn by Thermo-electric industrial users declines, while the proportion of surface water withdrawn by Petrochemical, Other Manufacturing, and Pulp and Paper industrial users increases. This is consistent with closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart B-2.1: Self-Supplied Surface Water Withdrawals (in MGD) 2010: EMSI Employment

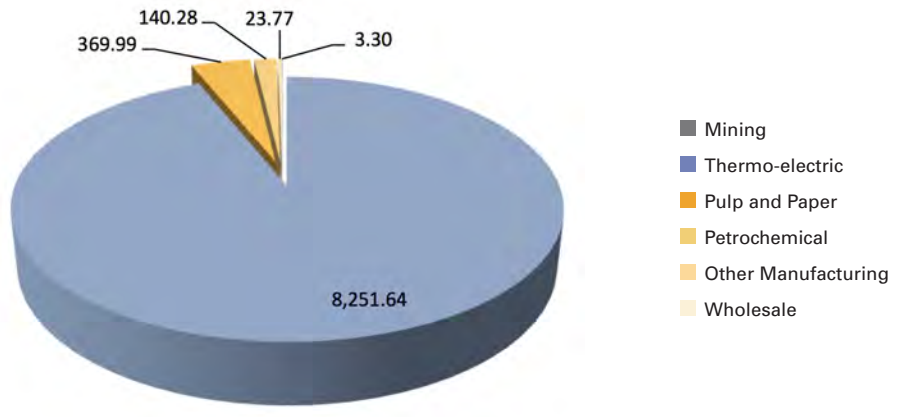


Chart B-2.2: Self-Supplied Surface Water Withdrawals (in MGD) 2020: EMSI Employment

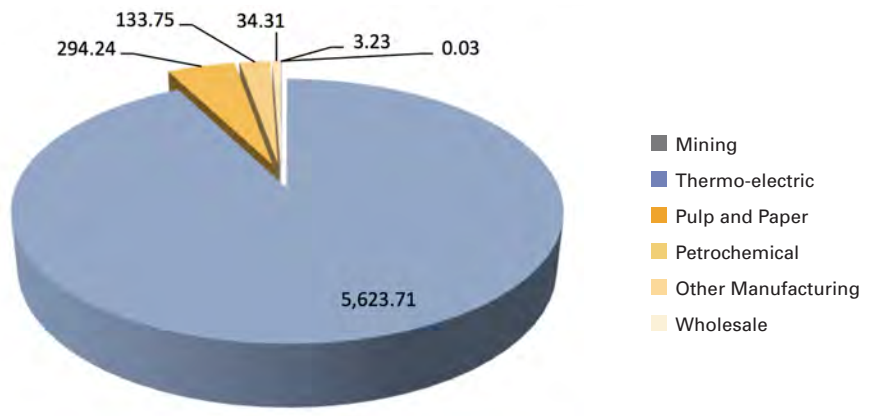


Chart B-2.3: Self-Supplied Surface Water Withdrawals (in MGD) 2030: EMSI Employment

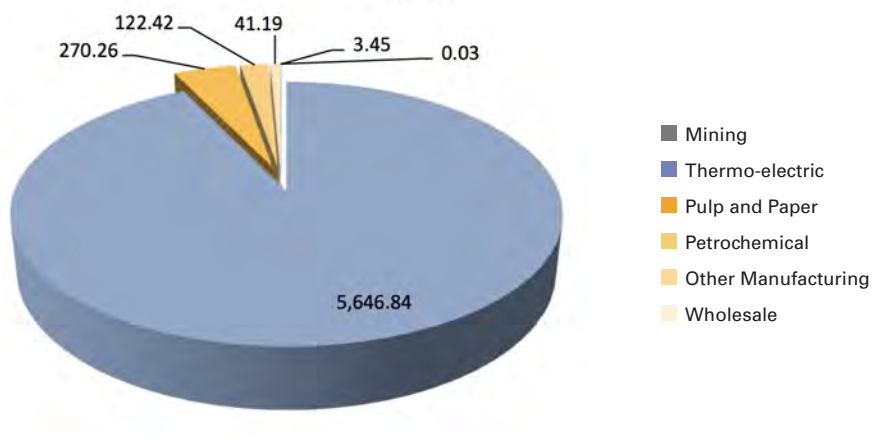
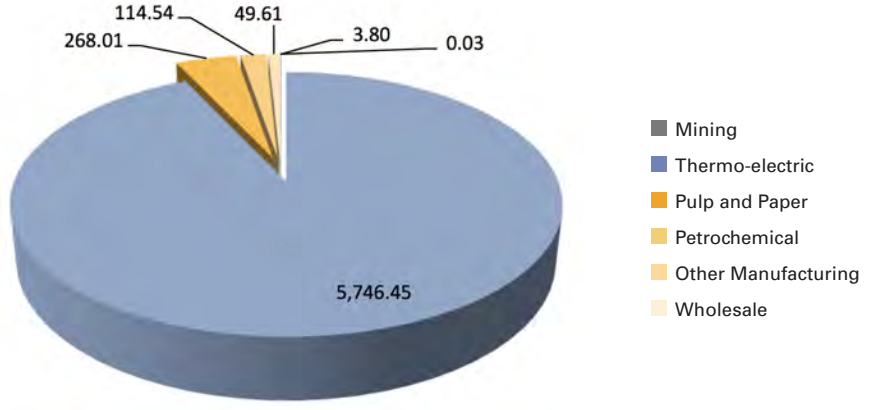


Chart B-2.4: Self-Supplied Surface Water Withdrawals (in MGD) 2040: EMSI Employment



Total Water Withdrawals

Table B-3 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the EMSI employment data. The forecasts indicate that Mining, Other Manufacturing and Wholesale will experience significant increases in total water withdrawal, with increases of 53 percent, 107 percent, and 163 percent, respectively. Thermo-electric, Pulp and Paper, and Petrochemical will experience decreases of 30 percent, 26 percent, and 16 percent, respectively.

Table B-3: Total Water Withdrawal Data (in MGD) - EMSI Employment

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.53	3.67	4.05	4.21	4.56	4.96	5.42
Thermo-electric	8,251.84	8,158.60	5,623.91	5,638.94	5,647.04	5,682.63	5,746.66
Pulp and Paper	381.77	333.86	309.00	292.63	285.62	283.23	284.26
Petrochemical	151.24	164.32	147.89	142.95	136.07	131.02	127.41
Other Manufacturing	33.78	48.16	49.76	54.33	58.58	63.73	69.91
Wholesale	0.02	0.04	0.05	0.05	0.05	0.05	0.05
Total	8,822.17	8,708.65	6,134.64	6,133.11	6,131.91	6,165.61	6,233.70

Chart B-3.1: Self-Supplied Total Water Withdrawals (in MGD) 2010: EMSI Employment

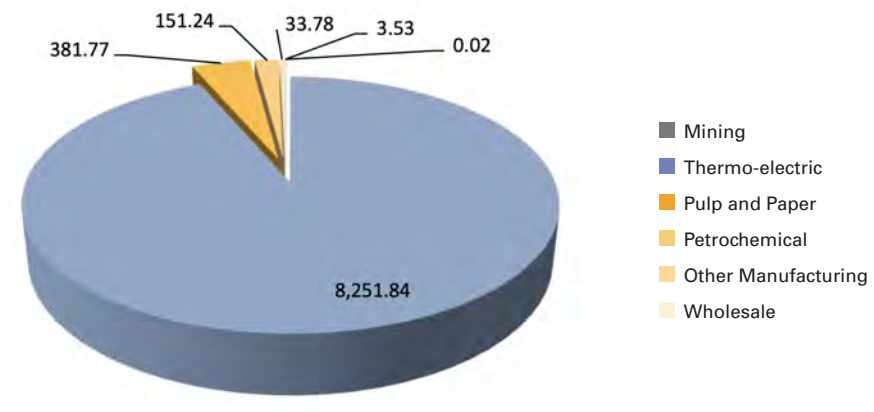
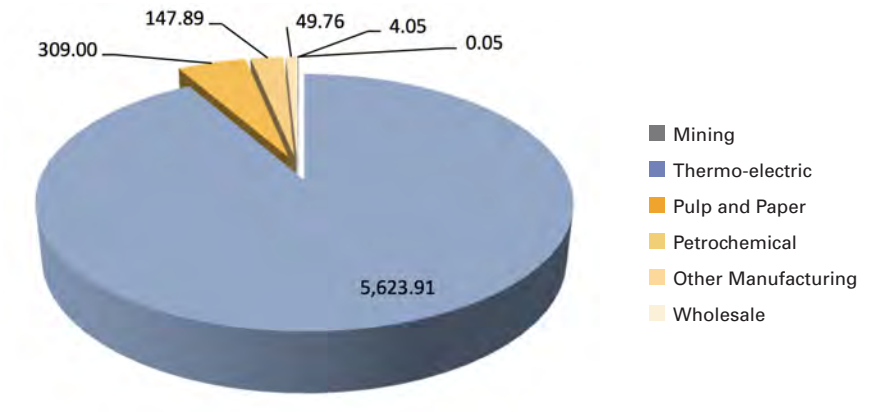


Chart B-3.2: Self-Supplied Total Water Withdrawals (in MGD) 2020: EMSI Employment



The following charts, Chart B-3.1 – Chart B-3.4, provide the breakdown of total water withdrawals by the type of industrial user based on the EMSI employment data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of total water withdrawn by Thermo-electric industrial users declines, while the proportion of total water withdrawn by Petrochemical, Pulp and Paper, and Other Manufacturing industrial users increases. This is consistent with the closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart B-3.3: Self-Supplied Total Water Withdrawals (in MGD) 2030: EMSI Employment

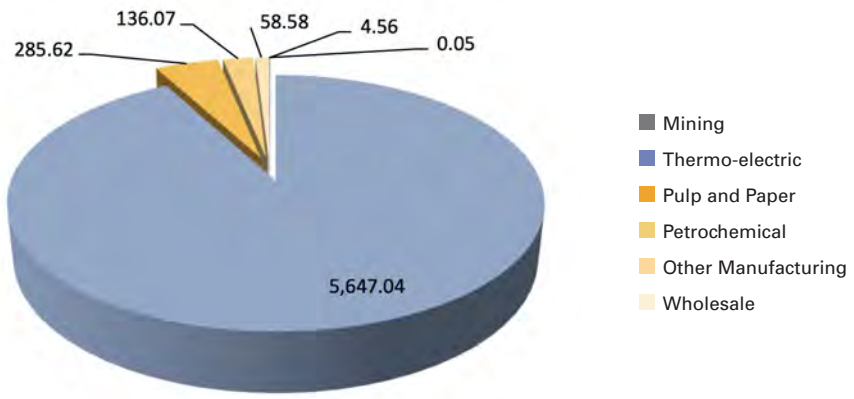


Chart B-3.4: Self-Supplied Total Water Withdrawals (in MGD) 2040: EMSI Employment

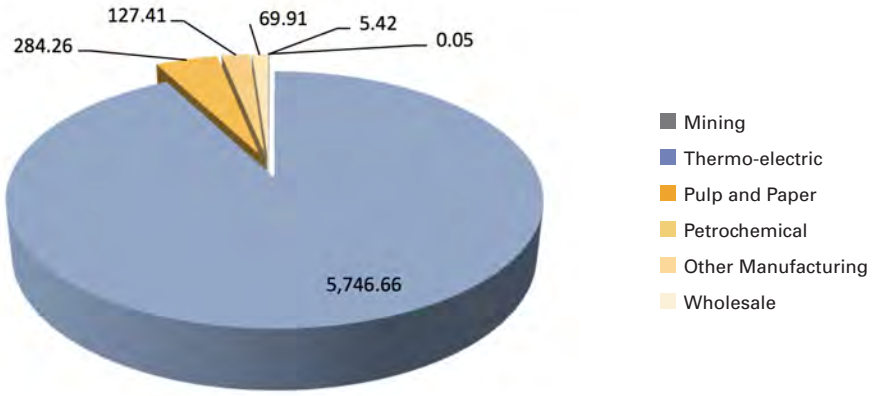
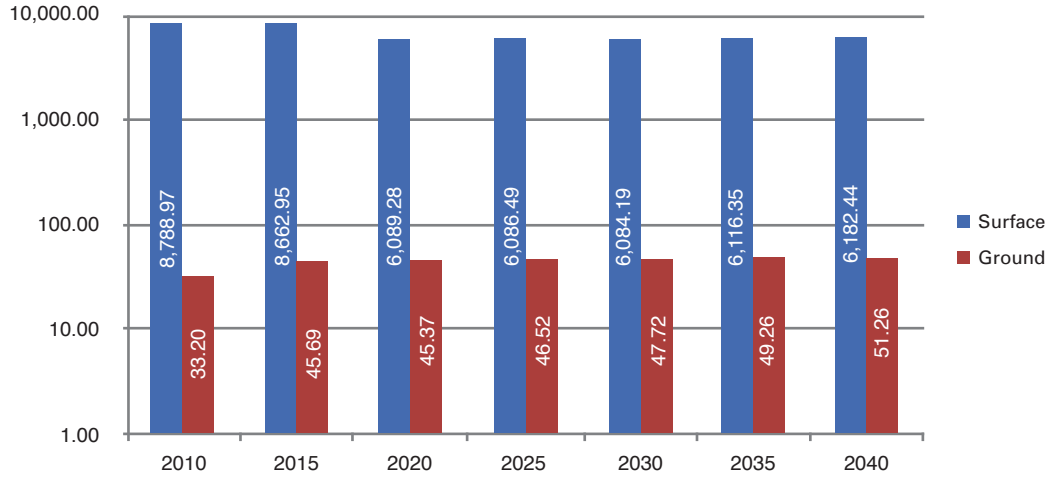


Table B-4 and Chart B-4 provide a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the water source based on the EMSI Employment data. The forecast indicates that approximately 99 percent of water withdrawn is surface water. Ground water is projected to increase by 54 percent during the 31-year period; whereas, surface water is expected to decrease by 30 percent. Thermo-electric is the largest user of surface water, and the closing of the two TVA plants significantly impacts the surface water withdrawn.

Table B-4: Total Water Withdrawal Data (in MGD) - EMSI Employment

	YEAR						
Water Source	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Ground	33.20	45.69	45.37	46.62	47.72	49.26	51.26
Surface	8,788.97	8,662.95	6,089.28	6,086.49	6,084.19	6,116.35	6,182.44
Total	8,822.17	8,708.65	6,134.64	6,133.11	6,131.91	6,165.61	6,233.70

Chart B-4: Self-Supplied Total Water Withdrawal (in MGD) 2010-2040: EMSI Employment



County Level Analysis

The county level analysis addresses the total water withdrawn by industrial users in each county during the 31-year period. Table B-5 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each county in the State of Alabama based on the EMSI Employment data. The results indicate that two counties, Colbert and Jackson, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each county. However, some counties experience significant increases in water withdrawn during the 31-year period, e.g., Autauga, Morgan, and Shelby, with increases of 46 percent, 42 percent, and 67 percent. The counties with the largest water withdrawals are Limestone, Walker, Mobile, and Shelby, with each county having water withdrawals in excess of 450 million gallons per day by 2040. In 2040, the water withdrawal for these four counties accounts for 87 percent of all water withdrawn.

HUC Level Analysis

The HUC level analysis addresses the total water withdrawn by industrial users in each HUC during the 31-year period. Table B-6 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each HUC in the State of Alabama based on the EMSI employment data. The results indicate that two HUCs, 06030001 and 06030005, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each HUC. However, some HUCs experience significant increases in water withdrawn during the 31-year period, e.g., 03150107 and 03150201, with increases of 67 percent and 46 percent, respectively. The HUCs with the largest water withdrawals are 03150107, 03160204, and 06030002, with each HUC having water withdrawals in excess of 740 million gallons per day by 2040. In 2040, the water withdrawal for these three HUCs accounts for 81 percent of all water withdrawn.

Table B-5: Water Withdrawal (in MGD) by County - EMSI Employment

	2010			2015			2020			2025			2030			2035			2040		
COUNTY	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
AUTAUGA	32.42	9.84	**42.26**	40.26	12.30	**52.56**	42.08	12.91	**54.99**	42.86	13.19	**56.05**	44.25	13.66	**57.91**	45.70	14.15	**59.85**	47.21	14.65	**61.86**
BALDWIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARBOUR	-	1.58	**1.58**	-	1.41	**1.41**	-	1.43	**1.43**	-	1.46	**1.46**	-	1.40	**1.40**	-	1.35	**1.35**	-	1.31	**1.31**
BIBB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOUNT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BULLOCK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTLER	-	0.30	**0.30**	-	0.26	**0.26**	-	0.25	**0.25**	-	0.24	**0.24**	-	0.23	**0.23**	-	0.22	**0.22**	-	0.20	**0.20**
CALHOUN	-	0.97	**0.97**	-	1.81	**1.81**	-	1.88	**1.88**	-	1.98	**1.98**	-	2.09	**2.09**	-	2.20	**2.20**	-	2.33	**2.33**
CHAMBERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILTON	-	0.35	**0.35**	-	0.39	**0.39**	-	0.43	**0.43**	-	0.52	**0.52**	-	0.59	**0.59**	-	0.68	**0.68**	-	0.78	**0.78**
CHOCTAW	40.80	-	**40.80**	35.19	-	**35.19**	31.57	-	**31.57**	29.26	-	**29.26**	26.68	-	**26.68**	24.34	-	**24.34**	22.19	-	**22.19**
CLARKE	20.21	-	**20.21**	20.92	-	**20.92**	21.84	-	**21.84**	22.80	-	**22.80**	23.80	-	**23.80**	24.84	-	**24.84**	25.93	-	**25.93**
CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEBURNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COFFEE	-	1.13	**1.13**	-	1.95	**1.95**	-	2.13	**2.13**	-	2.23	**2.23**	-	2.40	**2.40**	-	2.59	**2.59**	-	2.79	**2.79**
COLBERT	1,331.41	0.31	**1,331.72**	1,326.16	0.32	**1,326.48**	53.10	0.37	**53.47**	45.04	0.39	**45.43**	39.41	0.44	**39.85**	35.82	0.49	**36.30**	33.97	0.54	**34.51**
CONECUH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COVINGTON	1.74	-	**1.74**	1.82	-	**1.82**	2.30	-	**2.30**	2.49	-	**2.49**	2.92	-	**2.92**	3.43	-	**3.43**	4.02	-	**4.02**
CRENSHAW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULLMAN	1.83	0.43	**2.26**	2.90	0.59	**3.49**	3.12	0.72	**3.84**	3.51	0.90	**4.41**	3.93	1.11	**5.04**	4.44	1.37	**5.82**	5.08	1.69	**6.78**
DALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS	32.20	0.14	**32.34**	32.51	0.14	**32.65**	34.72	0.15	**34.87**	35.08	0.15	**35.23**	36.44	0.15	**36.60**	37.86	0.16	**38.02**	39.33	0.17	**39.49**
DEKALB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELMORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESCAMBIA	33.61	1.47	**35.08**	31.74	1.92	**33.66**	35.48	2.09	**37.57**	35.48	2.27	**37.75**	37.55	2.50	**40.05**	39.75	2.77	**42.52**	42.07	3.10	**45.17**
ETOWAH	123.78	-	**123.78**	116.20	-	**116.20**	97.29	-	**97.29**	93.33	-	**93.33**	83.77	-	**83.77**	75.24	-	**75.24**	67.61	-	**67.61**
FAYETTE	1.10	-	**1.10**	1.10	-	**1.10**	1.10	-	**1.10**	1.10	-	**1.10**	1.10	-	**1.10**	1.10	-	**1.10**	1.10	-	**1.10**
FRANKLIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GENEVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE	354.43	0.03	**354.46**	29.05	0.00	**29.05**	43.58	0.00	**43.58**	52.29	0.00	**52.30**	70.63	0.01	**70.64**	95.40	0.01	**95.41**	128.86	0.01	**128.87**
HALE	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**
HENRY	-	0.54	**0.54**	-	0.41	**0.41**	-	0.16	**0.16**	-	0.08	**0.08**	-	0.04	**0.04**	-	0.02	**0.02**	-	0.01	**0.01**
HOUSTON	89.20	0.17	**89.37**	97.36	0.18	**97.55**	101.69	0.19	**101.88**	101.05	0.19	**101.24**	102.95	0.19	**103.15**	104.89	0.20	**105.09**	106.87	0.20	**107.07**
JACKSON	1,054.12	-	**1,054.12**	1,198.41	-	**1,198.41**	11.13	-	**11.13**	11.94	-	**11.94**	13.74	-	**13.74**	15.82	-	**15.82**	18.21	-	**18.21**
JEFFERSON	-	0.50	**0.50**	0.03	0.48	**0.51**	0.03	0.46	**0.49**	0.03	0.49	**0.52**	0.03	0.49	**0.52**	0.03	0.49	**0.52**	0.03	0.50	**0.53**
LAMAR	-	0.11	**0.11**	-	0.11	**0.11**	-	0.09	**0.09**	-	0.09	**0.09**	-	0.08	**0.08**	-	0.08	**0.08**	-	0.07	**0.07**
LAUDERDALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAWRENCE	60.09	-	**60.09**	24.89	-	**24.89**	13.71	-	**13.71**	4.85	-	**4.85**	2.15	-	**2.15**	0.96	-	**0.96**	0.42	-	**0.42**
LEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMESTONE	2,725.63	-	**2,725.63**	2,748.44	-	**2,748.44**	2,816.31	-	**2,816.31**	2,869.68	-	**2,869.68**	2,932.29	-	**2,932.29**	2,996.27	-	**2,996.27**	3,061.64	-	**3,061.64**
LOWNDES	-	-	-	-	4.37	**4.37**	-	4.04	**4.04**	-	3.99	**3.99**	-	3.81	**3.81**	-	3.64	**3.64**	-	3.48	**3.48**
MACON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARENGO	17.78	-	**17.78**	18.77	-	**18.77**	15.97	-	**15.97**	15.07	-	**15.07**	13.50	-	**13.50**	12.10	-	**12.10**	10.85	-	**10.85**
MARION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL	-	0.08	**0.08**	-	0.07	**0.07**	-	0.08	**0.08**	-	0.08	**0.08**	-	0.08	**0.08**	-	0.08	**0.08**	-	0.08	**0.08**
MOBILE	991.17	7.03	**998.20**	934.12	9.19	**943.30**	855.16	9.30	**864.47**	847.75	9.87	**857.62**	807.98	10.39	**818.37**	770.18	11.04	**781.22**	734.27	11.84	**746.11**
MONROE	46.31	0.39	**46.70**	39.69	0.44	**40.13**	35.34	0.40	**35.74**	33.80	0.47	**34.27**	31.21	0.48	**31.69**	28.81	0.50	**29.30**	26.59	0.51	**27.10**
MONTGOMERY	-	-	-	0.19	2.47	**2.66**	0.17	2.67	**2.84**	0.17	2.81	**2.97**	0.15	3.01	**3.16**	0.14	3.24	**3.38**	0.14	3.50	**3.64**
MORGAN	81.43	0.00	**81.44**	99.09	0.00	**99.09**	99.37	0.00	**99.37**	104.97	0.00	**104.98**	108.30	0.00	**108.31**	111.94	0.00	**111.94**	115.93	0.00	**115.93**
PERRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PICKENS	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
PERRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSELL	27.64	0.92	**28.56**	17.97	0.60	**18.57**	13.99	0.47	**14.46**	11.17	0.37	**11.54**	8.81	0.29	**9.10**	6.94	0.23	**7.18**	5.48	0.18	**5.66**
SHELBY	665.45	-	**665.45**	777.21	-	**777.21**	860.44	-	**860.44**	897.17	-	**897.17**	964.04	-	**964.04**	1,035.89	-	**1,035.89**	1,113.10	-	**1,113.10**
STCLAIR	4.46	-	**4.46**	5.98	-	**5.98**	6.33	-	**6.33**	7.37	-	**7.37**	8.19	-	**8.19**	9.10	-	**9.10**	10.11	-	**10.11**
SUMTER	2.03	-	**2.03**	1.75	-	**1.75**	1.77	-	**1.77**	1.77	-	**1.77**	1.78	-	**1.78**	1.79	-	**1.79**	1.80	-	**1.80**
TALLADEGA	24.67	-	**24.67**	19.76	-	**19.76**	11.57	-	**11.57**	8.53	-	**8.53**	5.61	-	**5.61**	3.69	-	**3.69**	2.43	-	**2.43**
TALLAPOOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUSCALOOSA	2.12	0.74	**2.86**	2.06	0.71	**2.77**	2.07	0.61	**2.68**	2.11	0.58	**2.69**	2.16	0.53	**2.69**	2.23	0.48	**2.71**	2.31	0.44	**2.75**
WALKER	922.82	-	**922.82**	934.74	-	**934.74**	779.75	-	**779.75**	710.59	-	**710.59**	619.78	-	**619.78**	540.57	-	**540.57**	471.48	-	**471.48**
WASHINGTON	80.39	6.15	**86.55**	79.90	5.53	**85.43**	77.38	4.52	**81.89**	74.74	4.23	**78.97**	72.34	3.71	**76.04**	70.04	3.24	**73.29**	67.85	2.84	**70.69**
WILCOX	20.13	-	**20.13**	24.74	-	**24.74**	20.91	-	**20.91**	20.52	-	**20.52**	18.71	-	**18.71**	17.05	-	**17.05**	15.54	-	**15.54**
WINSTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	8,662.95	45.69	**8,708.65**	6,089.28	45.37	**6,134.64**	6,086.49	46.62	**6,133.11**	6,084.19	47.72	**6,131.91**	6,116.35	49.26	**6,165.61**	6,182.44	51.26	**6,233.70**

TableB-6: Water Withdrawal (in MGD) by HUC - EMSI Employment

	2010			2015			2020			2025			2030			2035			2040		
HUC	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
03130002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03130003	27.64	2.50	**30.14**	17.97	2.01	**19.98**	13.99	1.90	**15.89**	11.17	1.83	**12.99**	8.81	1.70	**10.50**	6.94	1.59	**8.53**	5.48	1.49	**6.96**
03130004	89.20	0.44	**89.64**	97.36	0.39	**97.75**	101.69	0.27	**101.96**	101.05	0.23	**101.28**	102.95	0.21	**103.16**	104.89	0.21	**105.10**	106.87	0.21	**107.07**
03130012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140201	-	0.27	**0.27**	-	1.20	**1.20**	-	1.09	**1.09**	-	1.07	**1.07**	-	1.06	**1.06**	-	1.07	**1.07**	-	1.08	**1.08**
03140202	-	1.13	**1.13**	-	0.95	**0.95**	-	1.12	**1.12**	-	1.21	**1.21**	-	1.36	**1.36**	-	1.52	**1.52**	-	1.71	**1.71**
03140203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140301	1.74	-	**1.74**	1.82	-	**1.82**	2.30	-	**2.30**	2.49	-	**2.49**	2.92	-	**2.92**	3.43	-	**3.43**	4.02	-	**4.02**
03140302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140303	-	0.30	**0.30**	-	0.26	**0.26**	-	0.25	**0.25**	-	0.24	**0.24**	-	0.23	**0.23**	-	0.22	**0.22**	-	0.20	**0.20**
03140304	33.61	1.38	**34.99**	31.74	1.44	**33.18**	35.48	1.45	**36.92**	35.48	1.53	**37.01**	37.55	1.58	**39.13**	39.75	1.63	**41.38**	42.07	1.69	**43.76**
03140305	-	0.09	**0.09**	-	0.48	**0.48**	-	0.64	**0.64**	-	0.74	**0.74**	-	0.92	**0.92**	-	1.14	**1.14**	-	1.41	**1.41**
03150105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150106	152.91	0.97	**153.88**	141.94	1.81	**143.75**	115.20	1.88	**117.08**	109.23	1.98	**111.22**	97.58	2.09	**99.66**	88.03	2.20	**90.23**	80.15	2.33	**82.48**
03150107	665.45	-	**665.45**	777.21	-	**777.21**	860.44	-	**860.44**	897.17	-	**897.17**	964.04	-	**964.04**	1,035.89	-	**1,035.89**	1,113.10	-	**1,113.10**
03150108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150201	64.62	10.33	**74.95**	72.96	19.67	**92.63**	76.97	20.20	**97.17**	78.10	20.65	**98.76**	80.84	21.23	**102.07**	83.70	21.87	**105.57**	86.67	22.59	**109.26**
03150202	-	0.16	**0.16**	0.03	0.13	**0.16**	0.03	0.12	**0.14**	0.03	0.12	**0.15**	0.03	0.12	**0.15**	0.03	0.12	**0.14**	0.03	0.11	**0.14**
03150203	20.13	-	**20.13**	24.74	-	**24.74**	20.91	-	**20.91**	20.52	-	**20.52**	18.71	-	**18.71**	17.05	-	**17.05**	15.54	-	**15.54**
03150204	46.31	0.39	**46.70**	39.69	0.44	**40.13**	35.34	0.40	**35.74**	33.80	0.47	**34.27**	31.21	0.48	**31.69**	28.81	0.50	**29.30**	26.59	0.51	**27.10**
03160101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160105	-	0.11	**0.11**	-	0.11	**0.11**	-	0.09	**0.09**	-	0.09	**0.09**	-	0.08	**0.08**	-	0.08	**0.08**	-	0.07	**0.07**
03160106	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
03160107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160109	924.65	0.43	**925.08**	937.64	0.59	**938.24**	782.87	0.72	**783.58**	714.10	0.90	**715.01**	623.70	1.11	**624.82**	545.01	1.37	**546.38**	476.56	1.69	**478.26**
03160110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160111	-	0.34	**0.34**	-	0.35	**0.35**	-	0.34	**0.34**	-	0.37	**0.37**	-	0.37	**0.37**	-	0.38	**0.38**	-	0.39	**0.39**
03160112	2.19	0.20	**2.39**	2.05	0.19	**2.24**	2.20	0.17	**2.36**	2.25	0.16	**2.41**	2.36	0.15	**2.51**	2.49	0.13	**2.62**	2.63	0.12	**2.75**
03160113	355.47	0.58	**356.05**	30.16	0.54	**30.70**	44.55	0.46	**45.01**	53.25	0.45	**53.70**	71.53	0.41	**71.93**	96.24	0.37	**96.61**	129.64	0.35	**129.99**
03160201	59.50	-	**59.50**	54.73	-	**54.73**	48.28	-	**48.28**	45.03	-	**45.03**	40.87	-	**40.87**	37.10	-	**37.10**	33.68	-	**33.68**
03160202	1.11	-	**1.11**	0.99	-	**0.99**	1.04	-	**1.04**	1.06	-	**1.06**	1.09	-	**1.09**	1.13	-	**1.13**	1.17	-	**1.17**
03160203	100.60	7.08	**107.68**	100.82	7.12	**107.95**	99.22	6.55	**105.77**	97.53	6.51	**104.04**	96.13	6.43	**102.57**	94.89	6.51	**101.39**	93.78	6.75	**100.53**
03160204	991.17	4.94	**996.11**	934.12	6.26	**940.37**	855.16	5.92	**861.08**	847.75	6.16	**853.91**	807.98	6.18	**814.16**	770.18	6.24	**776.42**	734.27	6.34	**740.60**
03160205	-	1.16	**1.16**	-	1.34	**1.34**	-	1.35	**1.35**	-	1.43	**1.43**	-	1.49	**1.49**	-	1.54	**1.54**	-	1.60	**1.60**
03170002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170009	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**
06020001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030001	1,054.12	0.08	**1,054.20**	1,198.41	0.07	**1,198.48**	11.13	0.08	**11.20**	11.94	0.08	**12.01**	13.74	0.08	**13.82**	15.82	0.08	**15.90**	18.21	0.08	**18.29**
06030002	2,867.15	0.00	**2,867.15**	2,872.42	0.00	**2,872.43**	2,929.39	0.00	**2,929.40**	2,979.50	0.00	**2,979.50**	3,042.75	0.00	**3,042.75**	3,109.16	0.00	**3,109.17**	3,178.00	0.00	**3,178.00**
06030003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030005	1,331.41	0.31	**1,331.72**	1,326.16	0.32	**1,326.48**	53.10	0.37	**53.47**	45.04	0.39	**45.43**	39.41	0.44	**39.85**	35.82	0.49	**36.30**	33.97	0.54	**34.51**
06030006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	8,662.95	45.69	**8,708.65**	6,089.28	45.37	**6,134.64**	6,086.49	46.62	**6,133.11**	6,084.19	47.72	**6,131.91**	6,116.35	49.26	**6,165.61**	6,182.44	51.26	**6,233.70**

Appendix C

Water Withdrawal Forecasts based on University of Alabama GDP Data

State Level Analysis

Ground Water Withdrawals

Table C-1 provides a breakdown of ground water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the University of Alabama Study using GDP data. The forecasts indicate that Thermo-electric, Pulp and Paper, Petrochemical, and Other Manufacturing will experience significant increases in ground water withdrawal, with increases of 125 percent, 177 percent, 311 percent, and 315 percent, respectively. Mining will experience a nine percent decline, and Wholesale will experience an 8 percent increase. Total ground water withdrawals are forecast to increase by 261 percent.

Table C-1: Ground Water Withdrawal Data (in MGD) - University of Alabama GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	0.24	0.21	0.23	0.22	0.21	0.22	0.22
Thermo-electric	0.20	0.36	0.38	0.40	0.42	0.43	0.45
Pulp and Paper	11.78	14.95	18.13	20.88	24.54	28.51	32.60
Petrochemical	10.96	20.01	24.37	28.26	33.43	39.06	45.01
Other Manufacturing	10.01	17.78	21.83	25.51	30.39	35.77	41.53
Wholesale	0.02	0.02	0.02	0.03	0.04	0.05	0.06
Total	33.20	53.34	64.97	75.29	89.02	104.04	119.86

Chart C-1.1: Self-Supplied Ground Water Withdrawals (in MGD) 2010: University of Alabama GDP

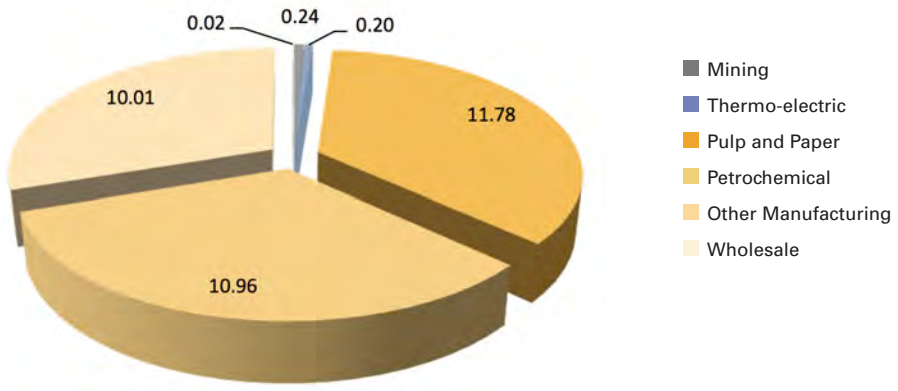
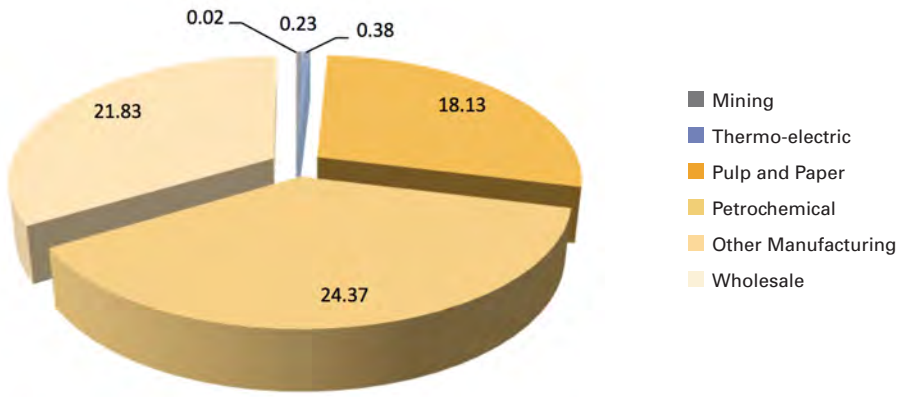


Chart C-1.2: Self-Supplied Ground Water Withdrawals (in MGD) 2020: University of Alabama GDP



The following charts, Chart C-1.1 – Chart C-1.4, provide the breakdown of ground water withdrawals by the type of industrial user based on the University of Alabama Study using GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of ground water withdrawn by Pulp and Paper industrial users declines, while the proportion of ground water withdrawn by Petrochemical and Other Manufacturing industrial users increases. This is consistent with the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart C-1.3: Self-Supplied Ground Water Withdrawals (in MGD) 2030: University of Alabama GDP

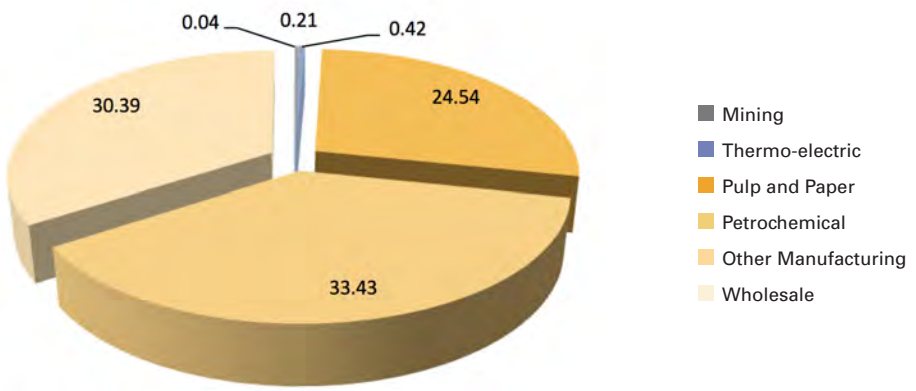
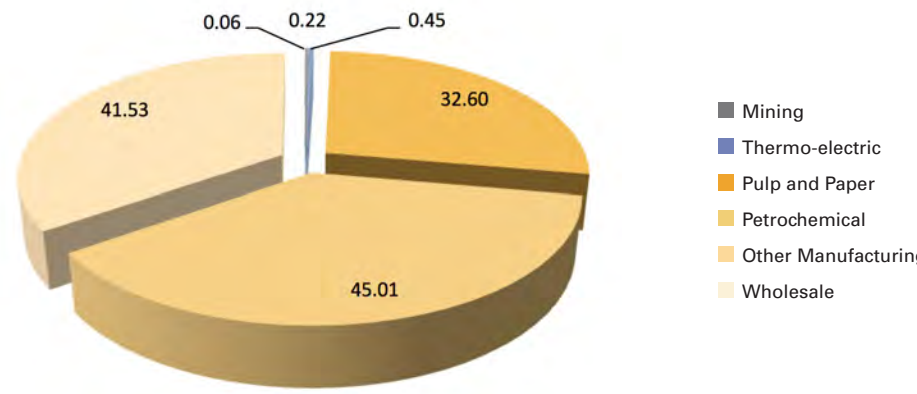


Chart C-1.4: Self-Supplied Ground Water Withdrawals (in MGD) 2040: University of Alabama GDP



Surface Water Withdrawals

Table C-2 provides a breakdown of surface water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the University of Alabama Study using GDP data. The forecasts indicate that Pulp and Paper, Petrochemical, and Other Manufacturing will experience significant increases in surface water withdrawal, with increases of 140 percent, 173 percent, and 202 percent, respectively. Mining will experience a 14 percent decline, and Thermo-electric will remain unchanged. Total surface water withdrawals are forecast to increase by nine percent.

Table C-2: Surface Water Withdrawal Data (in MGD) - University of Alabama GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.30	2.69	2.95	2.79	2.74	2.80	2.84
Thermo-electric	8,251.64	9,151.34	6,914.97	7,248.50	7,580.09	7,918.29	8,257.48
Pulp and Paper	369.99	454.32	538.81	607.48	697.28	791.15	885.06
Petrochemical	140.28	191.05	227.75	258.08	298.10	340.04	382.51
Other Manufacturing	23.77	33.97	41.08	47.05	54.93	63.31	71.89
Wholesale	-	0.03	0.03	0.04	0.05	0.07	0.09
Total	8,788.97	9,833.41	7,725.60	8,163.93	8,633.19	9,115.66	9,599.86

The following charts, Chart C-2.1 – Chart C-2.4, provide the breakdown of surface water withdrawals by the type of industrial user based on the University of Alabama Study using GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of surface water withdrawn by Thermo-electric industrial users declines, while the proportion of surface water withdrawn by Petrochemical, Other Manufacturing, and Pulp and Paper industrial users increases. This is consistent with closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart C-2.1: Self-Supplied Surface Water Withdrawals (in MGD) 2010: University of Alabama GDP

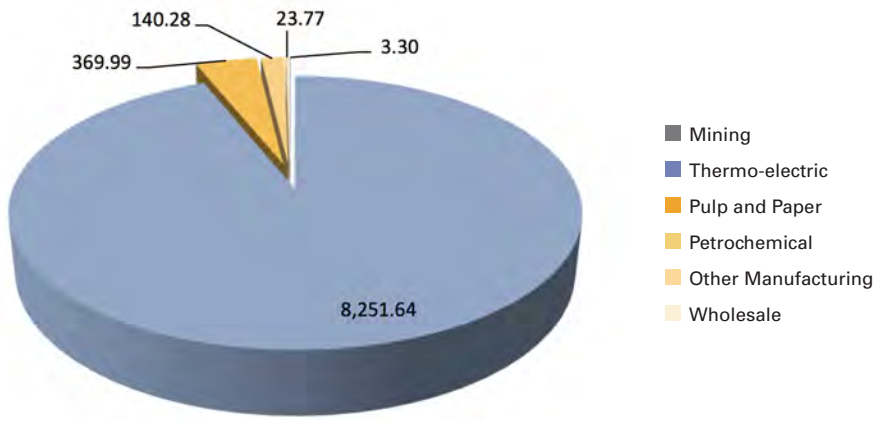


Chart C-2.2: Self-Supplied Surface Water Withdrawals (in MGD) 2020: University of Alabama GDP

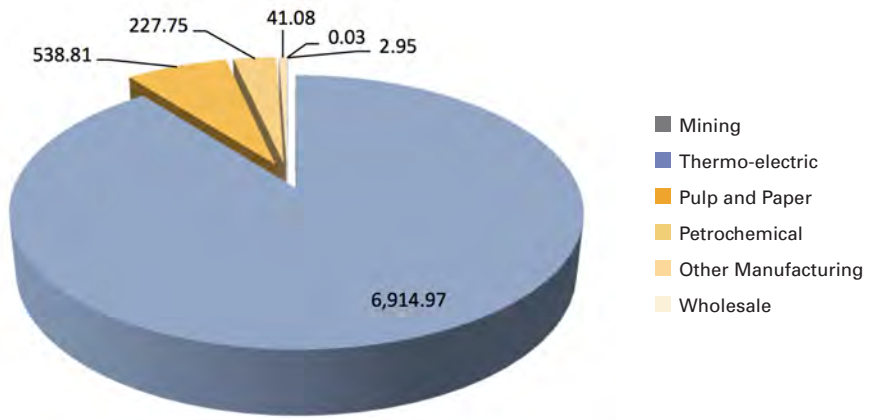


Chart C-2.3: Self-Supplied Surface Water Withdrawals (in MGD) 2030: University of Alabama GDP

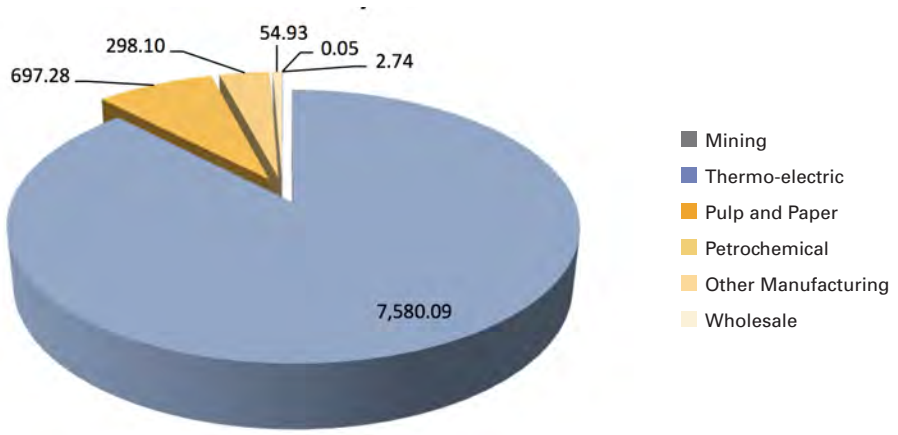
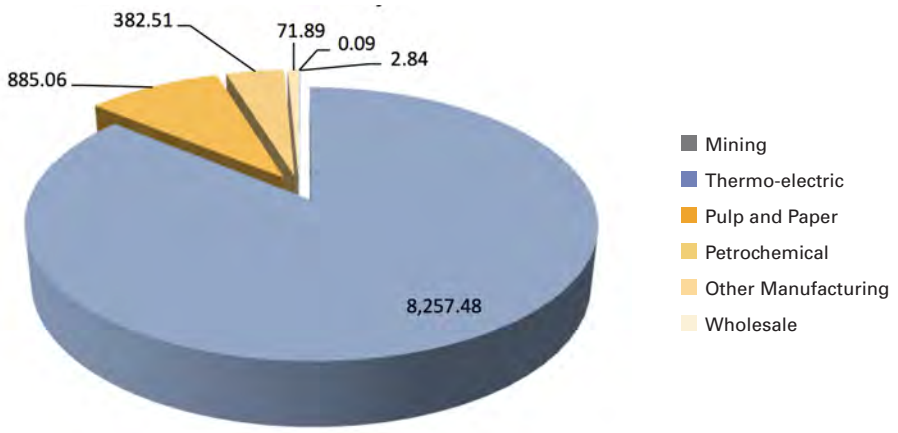


Chart C-2.4: Self-Supplied Surface Water Withdrawals (in MGD) 2040: University of Alabama GDP



Total Water Withdrawals

Table C-3 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the University of Alabama Study using GDP data. The forecasts indicate that Pulp and Paper, Petrochemical, Other Manufacturing, and Wholesale will experience significant increases in total water withdrawal, with increases of 140 percent, 183 percent, 236 percent, and 511 percent, respectively. Mining will experience a 14 percent decline, and Thermo-electric will experience an increase of less than one percent.

Table C-3: Surface Water Withdrawal Data (in MGD) - University of Alabama GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.53	2.91	3.19	3.00	2.96	3.02	3.05
Thermo-electric	8,251.84	9,151.71	6,915.35	7,248.89	7,580.51	7,918.72	8,257.93
Pulp and Paper	381.77	469.27	556.95	628.35	721.82	819.66	917.66
Petrochemical	151.24	211.07	252.12	286.34	331.53	379.10	427.52
Other Manufacturing	33.78	51.76	62.90	72.56	85.32	99.08	113.42
Wholesale	0.02	0.05	0.06	0.07	0.09	0.12	0.15
Total	8,822.17	9,886.75	7,790.57	8,239.22	8,722.22	9,219.70	9,719.72

Chart C-3.1: Self-Supplied Total Water Withdrawals (in MGD) 2010: University of Alabama GDP

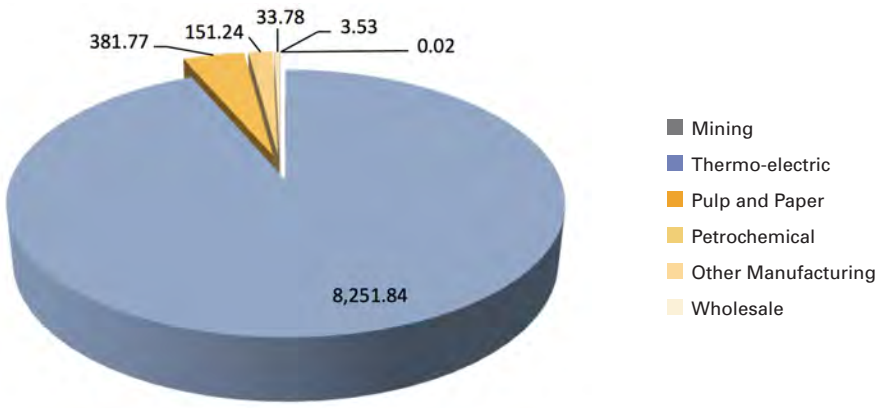
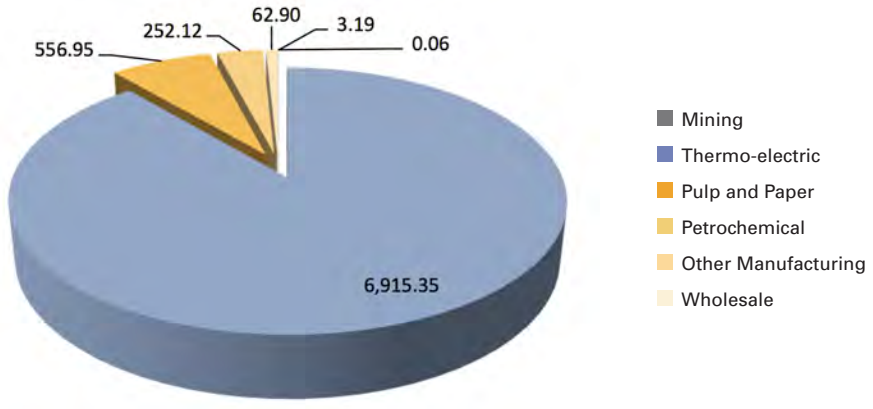


Chart C-3.2: Self-Supplied Total Water Withdrawals (in MGD) 2020: University of Alabama GDP



The following charts, Chart C-3.1 – Chart C-3.4, provide the breakdown of total water withdrawals by the type of industrial user based on the University of Alabama Study using GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of total water withdrawn by Thermo-electric industrial users declines, while the proportion of total water withdrawn by Petrochemical, Pulp and Paper, and Other Manufacturing industrial users increases. This is consistent with the closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart C-3.3: Self-Supplied Total Water Withdrawals (in MGD) 2030: University of Alabama GDP

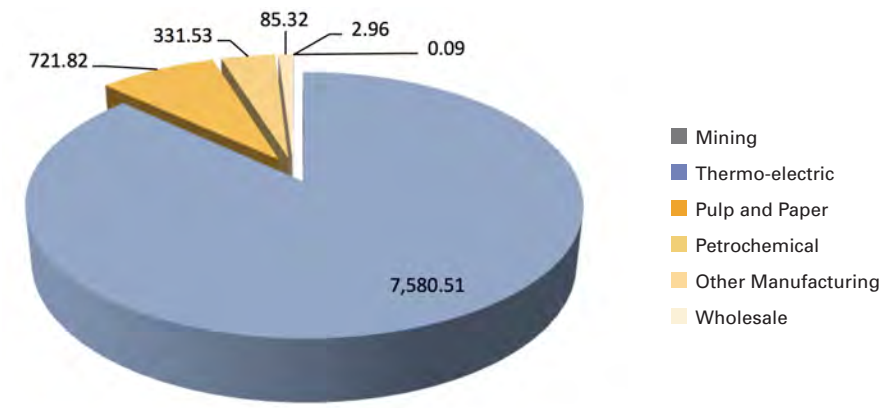


Chart C-3.4: Self-Supplied Total Water Withdrawals (in MGD) 2040: University of Alabama GDP

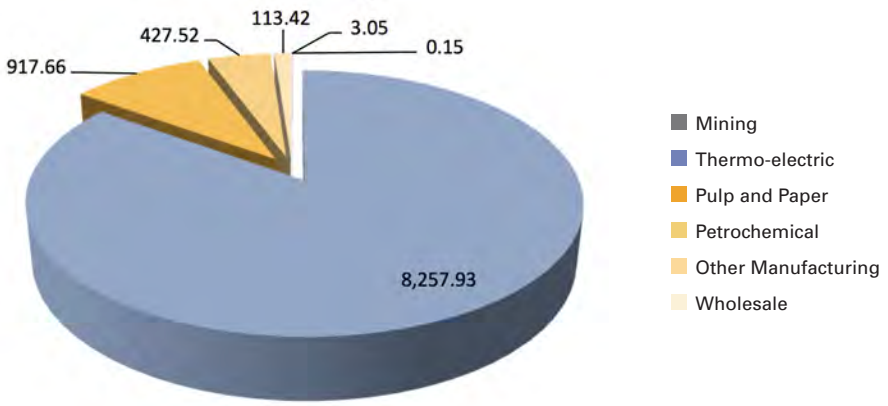
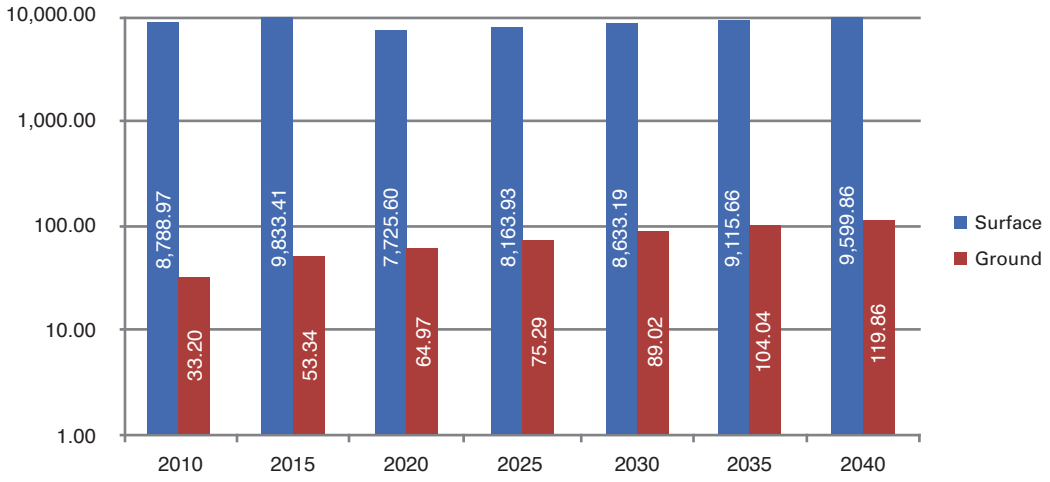


Table C-4 and Chart C-4 provide a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the water source based on the University of Alabama Study using GDP data. The forecast indicates that approximately 99 percent of water withdrawn is surface water. Ground water is projected to increase by 261 percent during the 31-year period; whereas, surface water is expected to increase by only nine percent. Thermo-electric is the largest user of surface water, and the closing of the two TVA plants significantly impacts the surface water withdrawn.

Table C-4: Total Water Withdrawal Data (in MGD) - University of Alabama GDP

	YEAR						
Water Source	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Ground	33.20	53.34	64.97	75.29	89.02	104.04	119.86
Surface	8,788.97	9,833.41	7,725.60	8,163.93	8,633.19	9,115.66	9,599.86
Total	8,822.17	9,886.75	7,790.57	8,239.22	8,722.22	9,219.70	9,719.72

Chart C-4: Self-Supplied Water Withdrawal Data (in MGD) 2010-2040 - University of Alabama GDP



County Level Analysis

The county level analysis addresses the total water withdrawn by industrial users in each county during the 31-year period. Table C-5 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each county in the State of Alabama based on the University of Alabama Study using GDP data. The results indicate that two counties, Colbert and Jackson, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each county. However, some counties experience significant increases in water withdrawn during the 31-year period, e.g., Autauga, Choctaw, Lawrence, Monroe, Morgan, and Shelby, with increases of 176 percent, 116 percent, 141 percent, 86 percent, 150 percent, and 83 percent. The counties with the largest water withdrawals are Limestone, Walker, Mobile, and Shelby, with each county having water withdrawals in excess of one billion gallons per day by 2040. In 2040, the water withdrawal for these four counties accounts for 77 percent of all water withdrawn.

HUC Level Analysis

The HUC level analysis addresses the total water withdrawn by industrial users in each HUC during the 31-year period. Table C-6 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each HUC in the State of Alabama based on the University of Alabama Study using GDP data. The results indicate that two HUCs, 06030001 and 06030005, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each HUC. However, some HUCs experience significant increases in water withdrawn during the 31-year period, e.g., 03130003, 03140304, 03150107, 03150201, 03150204, 03160201 and 06030002, with increases of 152 percent, 159 percent, 83 percent, 179 percent, 86 percent, 121 percent, 74 percent and 43 percent, respectively. The HUCs with the largest water withdrawals are 03150107, 03160109, 03160203, 03160204, and 06030002, with each HUC having water withdrawals in excess of one billion gallons per day by 2040. In 2040, the water withdrawal for these four HUCs accounts for 81 percent of all water withdrawn.

Table C-5: Water Withdrawal (in MGD) by County - University of Alabama GDP

	2010			2015			2020			2025			2030			2035			2040		
COUNTY	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
AUTAUGA	32.42	9.84	**42.26**	40.73	12.43	**53.16**	49.35	15.14	**64.48**	56.83	17.49	**74.32**	66.82	20.64	**87.46**	77.71	24.07	**101.78**	88.98	27.62	**116.60**
BALDWIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARBOUR	-	1.58	**1.58**	-	1.57	**1.57**	-	1.84	**1.84**	-	2.05	**2.05**	-	2.33	**2.33**	-	2.61	**2.61**	-	2.89	**2.89**
BIBB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BULLOCK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTLER	-	0.30	**0.30**	-	0.43	**0.43**	-	0.52	**0.52**	-	0.58	**0.58**	-	0.67	**0.67**	-	0.76	**0.76**	-	0.86	**0.86**
CALHOUN	-	0.97	**0.97**	-	1.18	**1.18**	-	1.41	**1.41**	-	1.60	**1.60**	-	1.85	**1.85**	-	2.12	**2.12**	-	2.40	**2.40**
CHAMBERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILTON	-	0.35	**0.35**	-	0.56	**0.56**	-	0.69	**0.69**	-	0.79	**0.79**	-	0.94	**0.94**	-	1.10	**1.10**	-	1.26	**1.26**
CHOCTAW	40.80	-	**40.80**	46.75	-	**46.75**	55.11	-	**55.11**	61.76	-	**61.76**	70.49	-	**70.49**	79.51	-	**79.51**	88.32	-	**88.32**
CLARKE	20.21	-	**20.21**	26.81	-	**26.81**	31.74	-	**31.74**	35.70	-	**35.70**	40.97	-	**40.97**	46.43	-	**46.43**	51.90	-	**51.90**
CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEBURNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COFFEE	-	1.13	**1.13**	-	2.71	**2.71**	-	3.31	**3.31**	-	3.84	**3.84**	-	4.53	**4.53**	-	5.29	**5.29**	-	6.08	**6.08**
COLBERT	1,331.41	0.31	**1,331.72**	1,509.23	0.46	**1,509.69**	124.87	0.55	**125.42**	141.14	0.62	**141.77**	162.49	0.72	**163.20**	184.90	0.82	**185.71**	207.72	0.92	**208.63**
CONECUH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COVINGTON	1.74	-	**1.74**	1.85	-	**1.85**	1.93	-	**1.93**	2.02	-	**2.02**	2.10	-	**2.10**	2.19	-	**2.19**	2.28	-	**2.28**
CRENSHAW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULLMAN	1.83	0.43	**2.26**	3.52	0.56	**4.08**	4.19	0.67	**4.87**	4.75	0.76	**5.51**	5.47	0.88	**6.35**	6.24	1.00	**7.24**	7.01	1.12	**8.13**
DALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS	32.20	0.14	**32.34**	40.00	0.17	**40.16**	47.08	0.20	**47.28**	52.72	0.22	**52.94**	60.16	0.26	**60.42**	67.84	0.29	**68.13**	75.34	0.32	**75.66**
DEKALB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELMORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESCAMBIA	33.61	1.47	**35.08**	46.11	1.97	**48.08**	54.35	2.32	**56.67**	60.89	2.58	**63.46**	69.51	2.93	**72.44**	78.30	3.29	**81.59**	87.03	3.64	**90.67**
ETOWAH	123.78	-	**123.78**	121.07	-	**121.07**	124.31	-	**124.31**	125.56	-	**125.56**	127.21	-	**127.21**	128.85	-	**128.85**	130.11	-	**130.11**
FAYETTE	1.10	-	**1.10**	0.73	-	**0.73**	0.77	-	**0.77**	0.70	-	**0.70**	0.66	-	**0.66**	0.65	-	**0.65**	0.63	-	**0.63**
FRANKLIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GENEVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE	354.43	0.03	**354.46**	394.39	0.03	**394.43**	412.83	0.04	**412.87**	431.27	0.04	**431.31**	449.71	0.04	**449.75**	468.15	0.04	**468.19**	486.58	0.04	**486.63**
HALE	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.03	**0.03**	-	0.04	**0.04**	-	0.05	**0.05**	-	0.06	**0.06**
HENRY	-	0.54	**0.54**	-	0.71	**0.71**	-	0.84	**0.84**	-	0.96	**0.96**	-	1.10	**1.10**	-	1.25	**1.25**	-	1.41	**1.41**
HOUSTON	89.20	0.17	**89.37**	99.25	0.33	**99.58**	103.89	0.35	**104.24**	108.53	0.36	**108.89**	113.17	0.38	**113.55**	117.81	0.39	**118.21**	122.45	0.41	**122.86**
JACKSON	1,054.12	-	**1,054.12**	1,173.32	-	**1,173.32**	12.09	-	**12.09**	13.54	-	**13.54**	15.46	-	**15.46**	17.43	-	**17.43**	19.36	-	**19.36**
JEFFERSON	-	0.50	**0.50**	0.03	0.71	**0.74**	0.03	0.90	**0.93**	0.04	1.08	**1.12**	0.05	1.32	**1.38**	0.07	1.60	**1.67**	0.09	1.90	**1.99**
LAMAR	-	0.11	**0.11**	-	0.15	**0.15**	-	0.18	**0.18**	-	0.20	**0.20**	-	0.23	**0.23**	-	0.26	**0.26**	-	0.29	**0.29**
LAUDERDALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAWRENCE	60.09	-	**60.09**	76.24	-	**76.24**	90.11	-	**90.11**	101.39	-	**101.39**	115.41	-	**115.41**	130.05	-	**130.05**	144.90	-	**144.90**
LEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMESTONE	2,725.63	-	**2,725.63**	3,032.93	-	**3,032.93**	3,174.72	-	**3,174.72**	3,316.52	-	**3,316.52**	3,458.31	-	**3,458.31**	3,600.10	-	**3,600.10**	3,741.89	-	**3,741.89**
LOWNDES	-	-	-	-	4.35	**4.35**	-	5.18	**5.18**	-	5.86	**5.86**	-	6.76	**6.76**	-	7.70	**7.70**	-	8.63	**8.63**
MACON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARENGO	17.78	-	**17.78**	21.81	-	**21.81**	25.71	-	**25.71**	28.79	-	**28.79**	32.87	-	**32.87**	37.05	-	**37.05**	41.19	-	**41.19**
MARION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL	-	0.08	**0.08**	-	0.10	0.10	-	0.12	**0.12**	-	0.14	**0.14**	-	0.17	**0.17**	-	0.19	**0.19**	-	0.22	**0.22**
MOBILE	991.17	7.03	**998.20**	974.34	11.45	**985.79**	1,021.01	14.63	**1,035.64**	1,067.29	17.78	**1,085.07**	1,112.45	22.00	**1,134.45**	1,159.22	26.81	**1,186.03**	1,205.17	32.17	**1,237.34**
MONROE	46.31	0.39	**46.70**	45.54	0.38	**45.92**	53.65	0.45	**54.10**	60.13	0.50	**60.64**	68.64	0.57	**69.22**	77.41	0.65	**78.06**	86.00	0.72	**86.72**
MONTGOMERY	-	-	-	0.18	2.69	**2.86**	0.22	3.31	**3.53**	0.25	3.88	**4.14**	0.30	4.64	**4.94**	0.36	5.47	**5.83**	0.42	6.36	**6.77**
MORGAN	81.43	0.00	**81.44**	101.42	0.00	**101.42**	120.77	0.00	**120.77**	136.94	0.00	**136.94**	158.33	0.01	**158.34**	180.73	0.01	**180.74**	203.35	0.01	**203.36**
PERRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PICKENS	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**
PIKE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSELL	27.64	0.92	**28.56**	35.85	1.19	**37.04**	42.61	1.42	**44.03**	48.17	1.61	**49.78**	55.50	1.85	**57.35**	63.19	2.11	**65.30**	70.82	2.36	**73.18**
SHELBY	665.45	-	**665.45**	856.32	-	**856.32**	922.71	-	**922.71**	993.64	-	**993.64**	1,064.04	-	**1,064.04**	1,139.61	-	**1,139.61**	1,217.41	-	**1,217.41**
STCLAIR	4.46	-	**4.46**	7.09	-	**7.09**	8.70	-	**8.70**	10.12	-	**10.12**	11.98	-	**11.98**	13.95	-	**13.95**	15.98	-	**15.98**
SUMTER	2.03	-	**2.03**	2.03	-	**2.03**	2.31	-	**2.31**	2.38	-	**2.38**	2.55	-	**2.55**	2.77	-	**2.77**	2.97	-	**2.97**
TALLADEGA	24.67	-	**24.67**	32.08	-	**32.08**	38.77	-	**38.77**	44.49	-	**44.49**	52.01	-	**52.01**	60.18	-	**60.18**	68.55	-	**68.55**
TALLAPOOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUSCALOOSA	2.12	0.74	**2.86**	2.27	0.96	**3.23**	2.76	1.23	**3.99**	3.10	1.49	**4.59**	3.61	1.85	**5.45**	4.23	2.25	**6.48**	4.91	2.71	**7.63**
WALKER	922.82	-	**922.82**	1,026.86	-	**1,026.86**	1,074.87	-	**1,074.87**	1,122.88	-	**1,122.88**	1,170.88	-	**1,170.88**	1,218.89	-	**1,218.89**	1,266.90	-	**1,266.90**
WASHINGTON	80.39	6.15	**86.55**	90.52	8.18	**98.70**	95.59	9.64	**105.23**	100.44	10.80	**111.24**	105.58	12.33	**117.91**	110.75	13.89	**124.65**	115.90	15.44	**131.34**
WILCOX	20.13	-	**20.13**	24.19	-	**24.19**	28.53	-	**28.53**	31.95	-	**31.95**	36.44	-	**36.44**	41.11	-	**41.11**	45.70	-	**45.70**
WINSTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	9,833.41	53.34	**9,886.75**	7,725.60	64.97	**7,790.57**	8,163.93	75.29	**8,239.22**	8,633.19	89.02	**8,722.22**	9,115.66	104.04	**9,219.70**	9,599.86	119.86	**9,719.72**

Table C-6: Water Withdrawal (in MGD) by HUC - University of Alabama GDP

	2010			2015			2020			2025			2030			2035			2040		
HUC	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
03130002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03130003	27.64	2.50	**30.14**	35.85	2.76	**38.61**	42.61	3.26	**45.87**	48.17	3.66	**51.83**	55.50	4.18	**59.68**	63.19	4.72	**67.91**	70.82	5.25	**76.07**
03130004	89.20	0.44	**89.64**	99.25	0.68	**99.94**	103.89	0.77	**104.66**	108.53	0.84	**109.37**	113.17	0.93	**114.10**	117.81	1.02	**118.83**	122.45	1.11	**123.57**
03130012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140201	-	0.27	**0.27**	-	1.60	**1.60**	-	1.95	**1.95**	-	2.24	**2.24**	-	2.64	**2.64**	-	3.06	**3.06**	-	3.51	**3.51**
03140202	-	1.13	**1.13**	-	1.46	**1.46**	-	1.79	**1.79**	-	2.07	**2.07**	-	2.45	**2.45**	-	2.85	**2.85**	-	3.28	**3.28**
03140203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140301	1.74	-	**1.74**	1.85	-	**1.85**	1.93	-	**1.93**	2.02	-	**2.02**	2.10	-	**2.10**	2.19	-	**2.19**	2.28	-	**2.28**
03140302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140303	-	0.30	**0.30**	-	0.43	**0.43**	-	0.52	**0.52**	-	0.58	**0.58**	-	0.67	**0.67**	-	0.76	**0.76**	-	0.86	**0.86**
03140304	33.61	1.38	**34.99**	46.11	1.89	**48.00**	54.35	2.23	**56.58**	60.89	2.50	**63.38**	69.51	2.85	**72.36**	78.30	3.21	**81.51**	87.03	3.57	**90.60**
03140305	-	0.09	**0.09**	-	0.08	**0.08**	-	0.09	**0.09**	-	0.08	**0.08**	-	0.08	**0.08**	-	0.07	**0.07**	-	0.07	**0.07**
03150105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150106	152.91	0.97	**153.88**	160.24	1.18	**161.41**	171.78	1.41	**173.19**	180.17	1.60	**181.77**	191.20	1.85	**193.06**	202.97	2.12	**205.09**	214.65	2.40	**217.04**
03150107	665.45	-	**665.45**	856.32	-	**856.32**	922.71	-	**922.71**	993.64	-	**993.64**	1,064.04	-	**1,064.04**	1,139.61	-	**1,139.61**	1,217.41	-	**1,217.41**
03150108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150201	64.62	10.33	**74.95**	80.90	20.19	**101.09**	96.65	24.51	**121.16**	109.80	28.25	**138.05**	127.29	33.22	**160.51**	145.91	38.62	**184.53**	164.74	44.19	**208.93**
03150202	-	0.16	**0.16**	0.03	0.22	**0.25**	0.03	0.28	**0.32**	0.04	0.34	**0.38**	0.05	0.41	**0.47**	0.07	0.50	**0.57**	0.09	0.59	**0.68**
03150203	20.13	-	**20.13**	24.19	-	**24.19**	28.53	-	**28.53**	31.95	-	**31.95**	36.44	-	**36.44**	41.11	-	**41.11**	45.70	-	**45.70**
03150204	46.31	0.39	**46.70**	45.54	0.38	**45.92**	53.65	0.45	**54.10**	60.13	0.50	**60.64**	68.64	0.57	**69.22**	77.41	0.65	**78.06**	86.00	0.72	**86.72**
03160101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160105	-	0.11	**0.11**	-	0.15	**0.15**	-	0.18	**0.18**	-	0.20	**0.20**	-	0.23	**0.23**	-	0.26	**0.26**	-	0.29	**0.29**
03160106	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.02	**0.02**	-	0.02	**0.02**	-	0.02	**0.02**
03160107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160109	924.65	0.43	**925.08**	1,030.38	0.56	**1,030.95**	1,079.06	0.67	**1,079.74**	1,127.62	0.76	**1,128.38**	1,176.36	0.88	**1,177.23**	1,225.13	1.00	**1,226.13**	1,273.90	1.12	**1,275.03**
03160110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160111	-	0.34	**0.34**	-	0.49	**0.49**	-	0.62	**0.62**	-	0.74	**0.74**	-	0.91	**0.91**	-	1.10	**1.10**	-	1.31	**1.31**
03160112	2.19	0.20	**2.39**	1.65	0.26	**1.91**	1.80	0.34	**2.14**	1.70	0.41	**2.11**	1.67	0.51	**2.18**	1.71	0.62	**2.32**	1.73	0.74	**2.47**
03160113	355.47	0.58	**356.05**	395.74	0.75	**396.49**	414.56	0.95	**415.51**	433.37	1.15	**434.51**	452.30	1.42	**453.72**	471.32	1.73	**473.04**	490.40	2.07	**492.47**
03160201	59.50	-	**59.50**	69.54	-	**69.54**	81.98	-	**81.98**	91.85	-	**91.85**	104.85	-	**104.85**	118.23	-	**118.23**	131.37	-	**131.37**
03160202	1.11	-	**1.11**	1.04	-	**1.04**	1.15	-	**1.15**	1.09	-	**1.09**	1.07	-	**1.07**	1.09	-	**1.09**	1.11	-	**1.11**
03160203	100.60	7.08	**107.68**	117.33	9.63	**126.95**	127.33	11.48	**138.81**	136.14	13.05	**149.18**	146.55	15.11	**161.67**	157.18	17.29	**174.48**	167.80	19.52	**187.32**
03160204	991.17	4.94	**996.11**	974.34	8.29	**982.63**	1,021.01	10.61	**1,031.62**	1,067.29	12.92	**1,080.21**	1,112.45	16.01	**1,128.45**	1,159.22	19.53	**1,178.75**	1,205.17	23.45	**1,228.62**
03160205	-	1.16	**1.16**	-	1.72	**1.72**	-	2.18	**2.18**	-	2.61	**2.61**	-	3.20	**3.20**	-	3.88	**3.88**	-	4.64	**4.64**
03170002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170009	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**
06020001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030001	1,054.12	0.08	**1,054.20**	1,173.32	0.10	**1,173.42**	12.09	0.12	**12.22**	13.54	0.14	**13.68**	15.46	0.17	**15.62**	17.43	0.19	**17.62**	19.36	0.22	**19.58**
06030002	2,867.15	0.00	**2,867.15**	3,210.58	0.00	**3,210.59**	3,385.60	0.00	**3,385.60**	3,554.84	0.00	**3,554.85**	3,732.05	0.01	**3,732.05**	3,910.88	0.01	**3,910.89**	4,090.13	0.01	**4,090.14**
06030003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030005	1,331.41	0.31	**1,331.72**	1,509.23	0.46	**1,509.69**	124.87	0.55	**125.42**	141.14	0.62	**141.77**	162.49	0.72	**163.20**	184.90	0.82	**185.71**	207.72	0.92	**208.63**
06030006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	9,833.41	53.34	**9,886.75**	7,725.60	64.97	**7,790.57**	8,163.93	75.29	**8,239.22**	8,633.19	89.02	**8,722.22**	9,115.66	104.04	**9,219.70**	9,599.86	119.86	**9,719.72**

Appendix D

Water Withdrawal Forecasts based on International Forecasting Service GDP Data

State Level Analysis

Ground Water Withdrawals

Table D-1 provides a breakdown of ground water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the International Forecasting Service GDP data. The forecasts indicate that Mining, Thermo-electric, Petrochemical, and Other Manufacturing will experience significant increases in ground water withdrawal, with increases of 97 percent, 74 percent, 365 percent, and 196 percent, respectively. Pulp and Paper and Wholesale will experience modest increases of 11 percent and 40 percent increase, respectively. Total ground water withdrawals are forecast to increase by 185 percent.

Table D-1: Ground Water Withdrawal Data (in MGD) - International Forecasting Service GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	0.24	0.25	0.28	0.32	0.36	0.41	0.47
Thermo-electric	0.20	0.31	0.34	0.34	0.34	0.34	0.35
Pulp and Paper	11.78	11.76	12.16	12.38	12.61	12.86	13.11
Petrochemical	10.96	18.00	21.11	26.01	32.29	40.38	50.89
Other Manufacturing	10.01	15.29	17.05	19.20	21.92	25.34	29.68
Wholesale	0.02	0.02	0.03	0.04	0.04	0.06	0.07
Total	33.20	45.64	50.97	58.29	67.57	79.39	94.56

Chart D-1.1: Self-Supplied Ground Water Withdrawals (in MGD) 2010: International Forecasting Service GDP

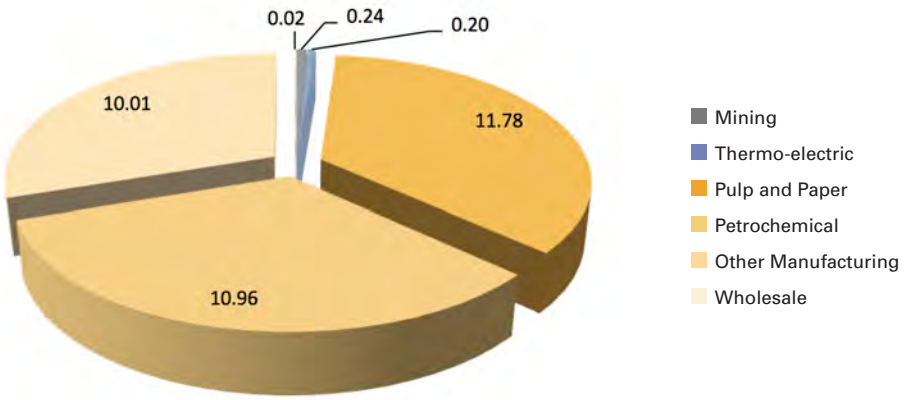
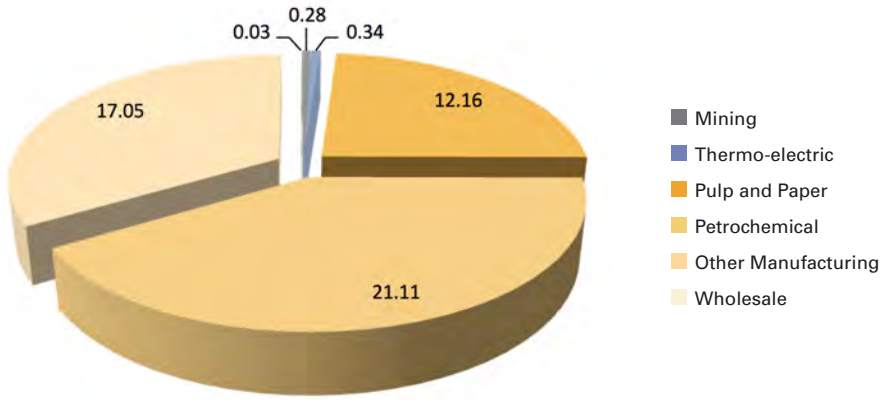


Chart D-1.2: Self-Supplied Ground Water Withdrawals (in MGD) 2020: International Forecasting Service GDP



The following charts, Chart D-1.1 – Chart D-1.4, provide the breakdown of ground water withdrawals by the type of industrial user based on the International Forecasting Service GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of ground water withdrawn by Pulp and Paper industrial users declines, while the proportion of ground water withdrawn by Petrochemical and Other Manufacturing industrial users increases. This is consistent with the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart D-1.3: Self-Supplied Ground Water Withdrawals (in MGD) 2030: International Forecasting Service GDP

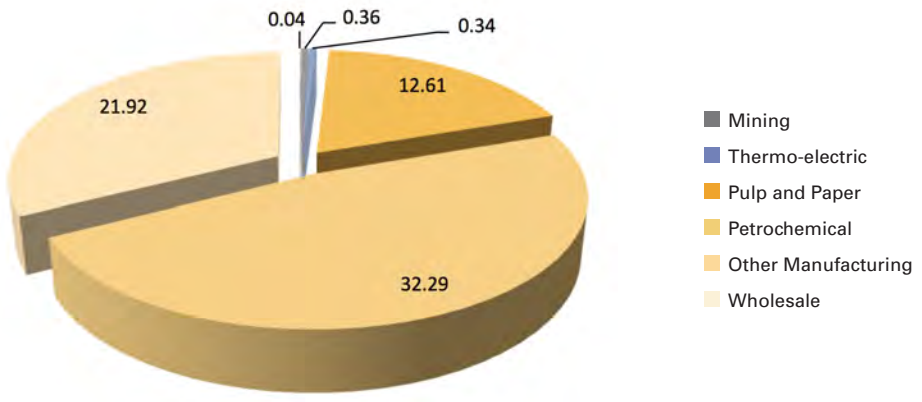
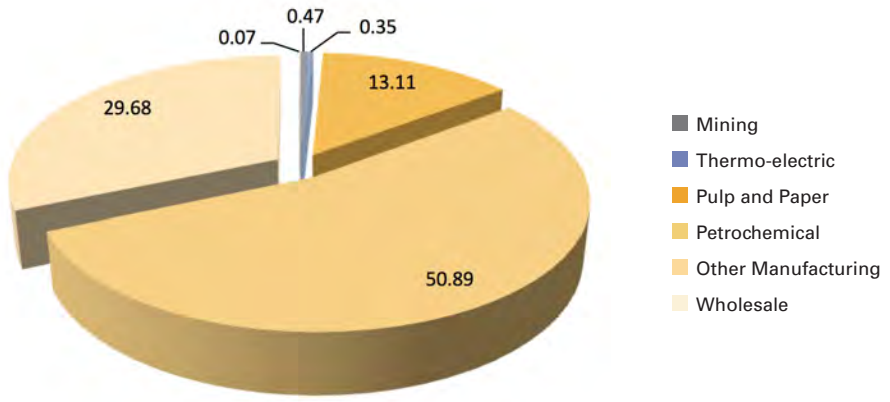


Chart D-1.4: Self-Supplied Ground Water Withdrawals (in MGD) 2040: International Forecasting Service GDP



Surface Water Withdrawals

Table D-2 provides a breakdown of surface water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the International Forecasting Service GDP data. The forecasts indicate that Mining, Petrochemical, and Other Manufacturing will experience significant increases in surface water withdrawal, with increases of 79 percent, 1432 percent, and 178 percent, respectively. Thermo-electric will experience a five percent increase, and Pulp and Paper will experience a three percent decrease. Total surface water withdrawals are forecast to increase by 28 percent.

Table D-2: Surface Water Withdrawal Data (in MGD) - International Forecasting Service GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.30	3.04	3.86	4.24	4.70	5.24	5.91
Thermo-electric	8,251.64	8,076.08	6,701.28	7,106.86	7,564.49	8,080.08	8,660.22
Pulp and Paper	369.99	357.41	346.69	344.70	345.94	350.48	358.45
Petrochemical	140.28	277.64	311.24	487.79	784.83	1,288.88	2,149.45
Other Manufacturing	23.77	29.94	33.20	39.24	46.52	55.32	65.98
Wholesale	-	0.03	0.03	0.04	0.05	0.06	0.07
Total	8,788.97	8,744.16	7,396.31	7,982.86	8,746.51	9,780.06	11,240.07

The following charts, Chart D-2.1 – Chart D-2.4, provide the breakdown of surface water withdrawals by the type of industrial user based on the International Forecasting Service GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of surface water withdrawn by Thermo-electric industrial users declines, while the proportion of surface water withdrawn by Petrochemical, Other Manufacturing, and Pulp and Paper industrial users increases. This is consistent with closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart D-2.1: Self-Supplied Surface Water Withdrawals (in MGD) 2010: International Forecasting Service GDP

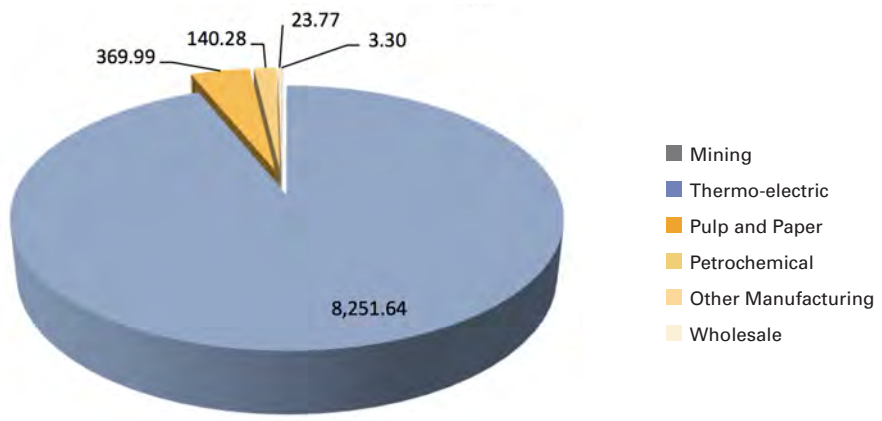


Chart D-2.2: Self-Supplied Surface Water Withdrawals (in MGD) 2020: International Forecasting Service GDP

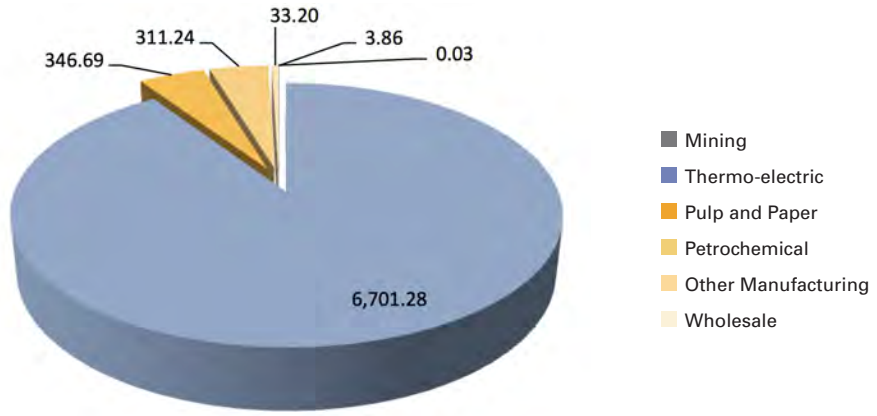


Chart D-2.3: Self-Supplied Surface Water Withdrawals (in MGD) 2030: International Forecasting Service GDP

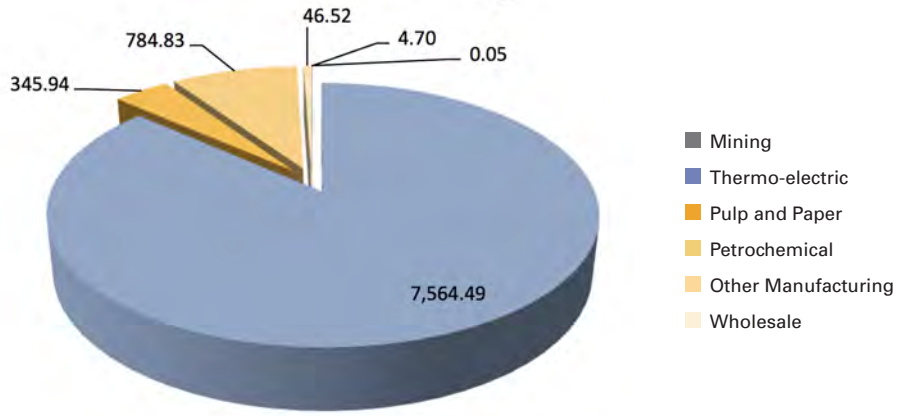
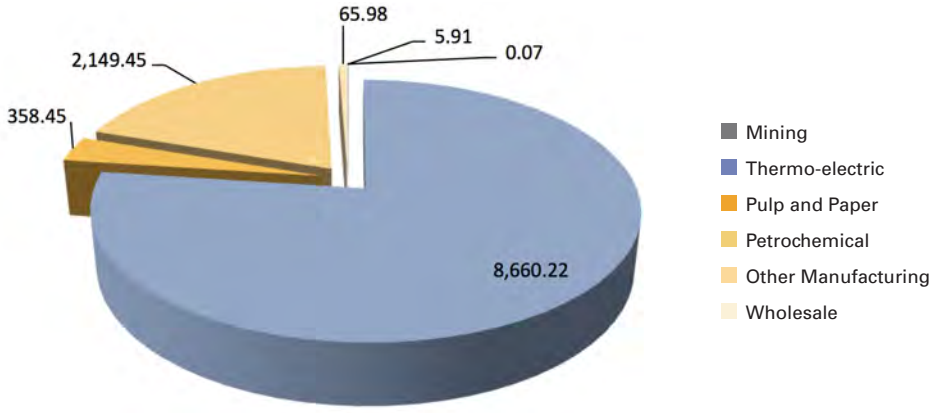


Chart D-2.4: Self-Supplied Surface Water Withdrawals (in MGD) 2040: International Forecasting Service GDP



Total Water Withdrawals

Table D-3 provides a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the type of industrial user based on the International Forecasting Service GDP data. The forecasts indicate that Mining, Petrochemical, Other Manufacturing, and Wholesale will experience significant increases in total water withdrawal, with increases of 80 percent, 1355 percent, 183 percent, and 421 percent, respectively. Pulp and Paper will experience a three percent decline, and Thermo-electric will experience a five percent increase.

Table D-3: Total Water Withdrawal Data (in MGD) - International Forecasting Service GDP

	YEAR						
Type of Industrial User	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Mining	3.53	3.29	4.15	4.56	5.06	5.66	6.37
Thermo-electric	8,251.84	8,076.40	6,701.63	7,107.20	7,564.83	8,080.43	8,660.57
Pulp and Paper	381.77	369.17	358.85	357.08	358.55	363.34	371.57
Petrochemical	151.24	295.64	332.35	513.80	817.11	1,329.25	2,200.34
Other Manufacturing	33.78	45.23	50.25	58.44	68.44	80.67	95.65
Wholesale	0.02	0.05	0.06	0.07	0.09	0.11	0.14
Total	8,822.17	8,789.79	7,447.28	8,041.16	8,814.08	9,859.45	11,334.63

Chart D-3.1: Self-Supplied Total Water Withdrawals (in MGD) 2010: International Forecasting Service GDP

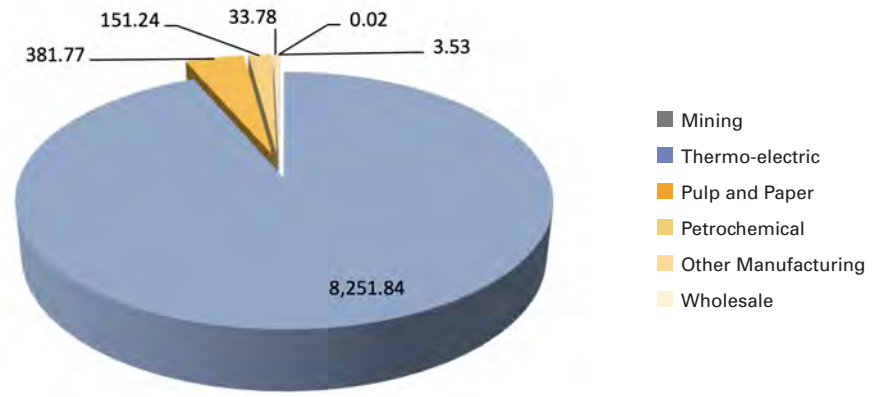
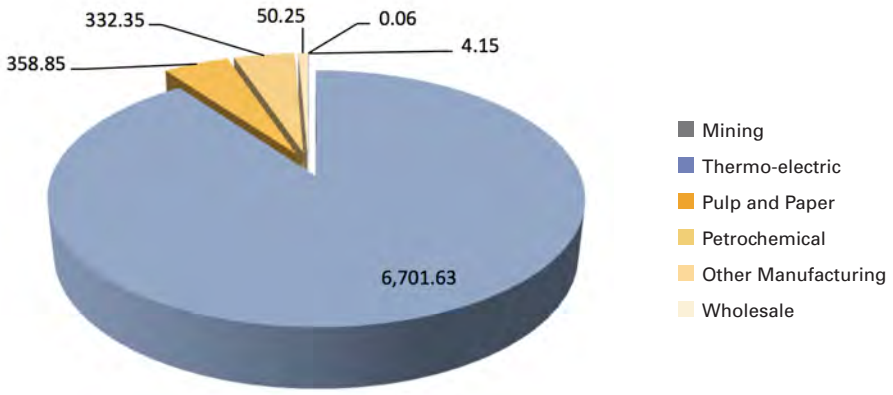


Chart D-3.2: Self-Supplied Total Water Withdrawals (in MGD) 2020: International Forecasting Service GDP



The following charts, Chart D-3.1 – Chart D-3.4, provide the breakdown of total water withdrawals by the type of industrial user based on the International Forecasting Service GDP data for 2010, 2020, 2030, and 2040. An analysis of these charts indicates that during the 31-year period, the proportion of total water withdrawn by Thermo-electric industrial users declines, while the proportion of total water withdrawn by Petrochemical, Pulp and Paper, and Other Manufacturing industrial users increases. This is consistent with the closing of two TVA thermo-electric plants and the long-term projections for these three industrial users, since Pulp and Paper is expected to have nominal growth, but Petrochemical and Other Manufacturing are expected to have significant growth.

Chart D-3.3: Self-Supplied Total Water Withdrawals (in MGD) 2010: International Forecasting Service GDP

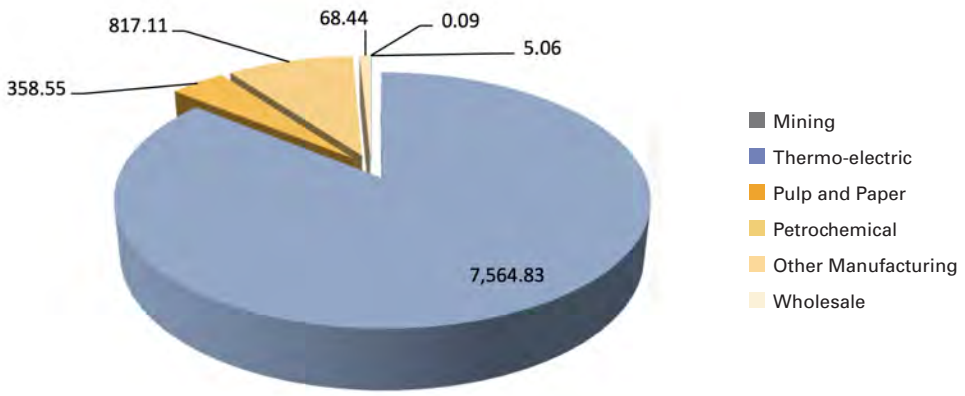


Chart D-3.4: Self-Supplied Total Water Withdrawals (in MGD) 2010: International Forecasting Service GDP

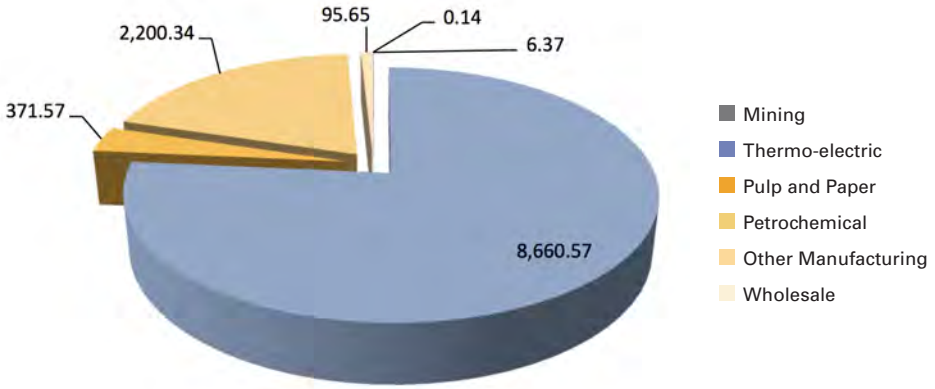
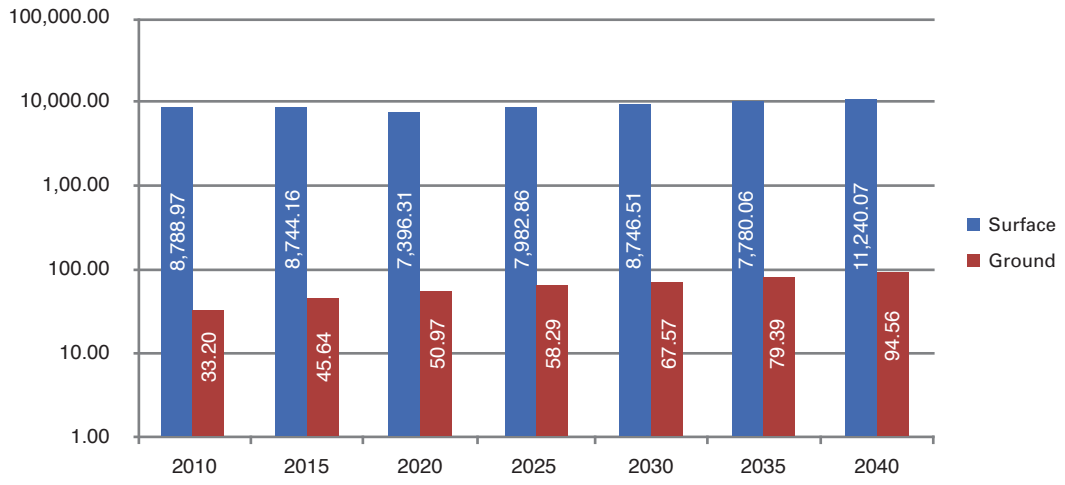


Table D-4 and Chart D-4 provide a breakdown of total water withdrawal for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 by the water source based on the International Forecasting Service GDP data. The forecast indicates that approximately 99 percent of water withdrawn is surface water. Ground water is projected to increase by 185 percent during the 31-year period; whereas, surface water is expected to increase by 28 percent. Thermo-electric is the largest user of surface water, and the closing of the two TVA plants significantly impacts the surface water withdrawn.

Table D-4: Total Water Withdrawal Data (in MGD) - International Forecasting Service GDP

	YEAR						
Water Source	**2010**	**2015**	**2020**	**2025**	**2030**	**2035**	**2040**
Ground	33.20	45.64	50.97	58.29	67.57	79.39	94.56
Surface	8,788.97	8,744.16	7,396.31	7,982.86	8,746.51	9,780.06	11,240.07
Total	8,822.17	8,789.79	7,447.28	8,041.16	8,814.08	9,859.45	11,334.63

Chart D-4: Self-Supplied Total Water Withdrawal (in MGD) 2010-2040: - International Forecasting Service GDP



County Level Analysis

The county level analysis addresses the total water withdrawn by industrial users in each county during the 31-year period. Table D-5 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each county in the State of Alabama based on the International Forecasting Service GDP data. The results indicate that two counties, Colbert and Jackson, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each county. However, some counties experience significant increases in water withdrawn during the 31-year period, e.g., Etowah, Greene, Mobile, Morgan, Shelby, and Walker, with increases of 96 percent, 92 percent, 94 percent, 2349 percent, 92 percent, and 99 percent. The counties with the largest water withdrawals are Limestone, Walker, Mobile, Morgan, and Shelby, with each county having water withdrawals in excess of one billion gallons per day by 2040. In 2040, the water withdrawal for these five counties accounts for 84 percent of all water withdrawn.

HUC Level Analysis

The HUC level analysis addresses the total water withdrawn by industrial users in each HUC during the 31-year period. Table D-6 provides the forecasts for 2010, 2015, 2020, 2025, 2030, 2035, and 2040 for each HUC in the State of Alabama based on the International Forecasting Service GDP data. The results indicate that two HUCs, 06030001 and 06030005, experience significant declines in the amount of water withdrawn. This is because TVA is closing a steam plant in each HUC. However, some HUCs experience significant increases in water withdrawn during the 31-year period, e.g., 03140304, 03150106, 03150107, 03150204, 03160109, 03160113, 03160203 and 06030002, with increases of 128 percent, 77 percent, 92 percent, 62 percent, 93 percent, 93 percent, 93 percent, and 60 percent, respectively. The HUCs with the largest water withdrawals are 03150107, 03160109, 03160204, and 06030002, with each HUC having water withdrawals in excess of one billion gallons per day by 2040. In 2040, the water withdrawal for these four HUCs accounts for 84 percent of all water withdrawn.

Table D-5: Water Withdrawal (in MGD) by County - International Forecasting Service GDP

	2010			2015			2020			2025			2030			2035			2040		
COUNTY	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
AUTAUGA	32.42	9.84	**42.26**	32.43	9.84	**42.28**	33.89	10.21	**44.11**	34.73	10.42	**45.15**	35.60	10.63	**46.23**	36.51	10.84	**47.35**	37.45	11.06	**48.51**
BALDWIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARBOUR	-	1.58	**1.58**	-	1.32	**1.32**	-	1.46	**1.46**	-	1.40	**1.40**	-	1.34	**1.34**	-	1.29	**1.29**	-	1.24	**1.24**
BIBB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOUNT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BULLOCK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTLER	-	0.30	**0.30**	-	0.27	**0.27**	-	0.25	**0.25**	-	0.22	**0.22**	-	0.20	**0.20**	-	0.18	**0.18**	-	0.17	**0.17**
CALHOUN	-	0.97	**0.97**	-	0.98	**0.98**	-	1.04	**1.04**	-	1.09	**1.09**	-	1.13	**1.13**	-	1.18	**1.18**	-	1.22	**1.22**
CHAMBERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILTON	-	0.35	**0.35**	-	0.38	**0.38**	-	0.43	**0.43**	-	0.47	**0.47**	-	0.53	**0.53**	-	0.58	**0.58**	-	0.65	**0.65**
CHOCTAW	40.80	-	**40.80**	36.57	-	**36.57**	33.35	-	**33.35**	30.14	-	**30.14**	27.25	-	**27.25**	24.63	-	**24.63**	22.26	-	**22.26**
CLARKE	20.21	-	**20.21**	18.11	-	**18.11**	16.52	-	**16.52**	14.93	-	**14.93**	13.50	-	**13.50**	12.20	-	**12.20**	11.03	-	**11.03**
CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEBURNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COFFEE	-	1.13	**1.13**	-	2.06	**2.06**	-	2.26	**2.26**	-	2.17	**2.17**	-	2.09	**2.09**	-	2.00	**2.00**	-	1.93	**1.93**
COLBERT	1,331.41	0.31	**1,331.72**	1,353.63	0.35	**1,353.98**	93.23	0.37	**93.60**	108.35	0.41	**108.76**	126.42	0.45	**126.87**	148.00	0.50	**148.50**	173.78	0.55	**174.34**
CONECUH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COVINGTON	1.74	-	**1.74**	1.76	-	**1.76**	2.16	-	**2.16**	2.41	-	**2.41**	2.68	-	**2.68**	2.99	-	**2.99**	3.34	-	**3.34**
CRENSHAW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULLMAN	1.83	0.43	**2.26**	2.79	0.76	**3.55**	3.14	0.90	**4.04**	3.45	1.13	**4.58**	3.86	1.42	**5.28**	4.39	1.79	**6.18**	5.08	2.25	**7.33**
DALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS	32.20	0.14	**32.34**	28.86	0.12	**28.99**	26.32	0.11	**26.43**	23.79	0.10	**23.89**	21.50	0.09	**21.60**	19.44	0.08	**19.52**	17.57	0.07	**17.64**
DEKALB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELMORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESCAMBIA	33.61	1.47	**35.08**	40.92	1.66	**42.58**	44.17	1.87	**46.05**	50.71	2.12	**52.83**	58.22	2.40	**60.63**	66.84	2.73	**69.57**	76.74	3.10	**79.84**
ETOWAH	123.78	-	**123.78**	127.22	-	**127.22**	154.77	-	**154.77**	173.10	-	**173.10**	193.63	-	**193.63**	216.61	-	**216.61**	242.36	-	**242.36**
FAYETTE	1.10	-	**1.10**	0.85	-	**0.85**	1.12	-	**1.12**	1.13	-	**1.13**	1.14	-	**1.14**	1.15	-	**1.15**	1.16	-	**1.16**
FRANKLIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GENEVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE	354.43	0.03	**354.46**	358.44	0.03	**358.47**	440.84	0.04	**440.88**	491.51	0.04	**491.55**	548.01	0.05	**548.06**	611.00	0.05	**611.05**	681.23	0.06	**681.29**
HALE	-	0.02	**0.02**	-	0.02	**0.02**	-	0.03	**0.03**	-	0.04	**0.04**	-	0.04	**0.04**	-	0.06	**0.06**	-	0.07	**0.07**
HENRY	-	0.54	**0.54**	-	0.58	**0.58**	-	0.63	**0.63**	-	0.69	**0.69**	-	0.74	**0.74**	-	0.81	**0.81**	-	0.87	**0.87**
HOUSTON	89.20	0.17	**89.37**	81.69	0.28	**81.96**	89.00	0.30	**89.31**	87.67	0.30	**87.97**	86.37	0.30	**86.66**	85.08	0.29	**85.37**	83.81	0.29	**84.10**
JACKSON	1,054.12	-	**1,054.12**	1,065.94	-	**1,065.94**	9.23	-	**9.23**	9.42	-	**9.42**	9.61	-	**9.61**	9.80	-	**9.80**	10.00	-	**10.00**
JEFFERSON	-	0.50	**0.50**	0.03	0.55	**0.58**	0.03	0.60	**0.64**	0.04	0.67	**0.71**	0.05	0.75	**0.80**	0.06	0.85	**0.90**	0.07	0.96	**1.03**
LAMAR	-	0.11	**0.11**	-	0.12	**0.12**	-	0.13	**0.13**	-	0.15	**0.15**	-	0.16	**0.16**	-	0.18	**0.18**	-	0.20	**0.20**
LAUDERDALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAWRENCE	60.09	-	**60.09**	53.86	-	**53.86**	49.11	-	**49.11**	44.39	-	**44.39**	40.13	-	**40.13**	36.27	-	**36.27**	32.79	-	**32.79**
LEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMESTONE	2,725.63	-	**2,725.63**	2,496.09	-	**2,496.09**	2,719.63	-	**2,719.63**	2,679.08	-	**2,679.08**	2,639.13	-	**2,639.13**	2,599.78	-	**2,599.78**	2,561.02	-	**2,561.02**
LOWNDES	-	-	-	-	4.56	**4.56**	-	4.61	**4.61**	-	5.47	**5.47**	-	6.50	**6.50**	-	7.72	**7.72**	-	9.17	**9.17**
MACON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARENGO	17.78	-	**17.78**	17.78	-	**17.78**	18.45	-	**18.45**	18.82	-	**18.82**	19.20	-	**19.20**	19.59	-	**19.59**	19.98	-	**19.98**
MARION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL	-	0.08	**0.08**	-	0.09	**0.09**	-	0.12	**0.12**	-	0.14	**0.14**	-	0.15	**0.15**	-	0.16	**0.16**	-	0.18	**0.18**
MOBILE	991.17	7.03	**998.20**	1,002.53	9.65	**1,012.17**	1,232.89	10.96	**1,243.85**	1,374.66	13.67	**1,388.33**	1,532.74	17.30	**1,550.04**	1,708.99	22.22	**1,731.22**	1,905.52	28.92	**1,934.45**
MONROE	46.31	0.39	**46.70**	47.54	0.69	**48.23**	46.54	0.81	**47.35**	52.18	1.02	**53.20**	58.49	1.29	**59.78**	65.58	1.62	**67.20**	73.53	2.03	**75.57**
MONTGOMERY	-	-	-	0.14	2.88	**3.03**	0.13	3.33	**3.46**	0.12	4.19	**4.31**	0.11	5.31	**5.42**	0.10	6.77	**6.87**	0.09	8.69	**8.78**
MORGAN	81.43	0.00	**81.44**	211.28	0.00	**211.28**	229.50	0.01	**229.50**	392.01	0.01	**392.02**	672.43	0.01	**672.44**	1,156.81	0.02	**1,156.83**	1,994.06	0.02	**1,994.08**
PERRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PICKENS	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
PIKE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSELL	27.64	0.92	**28.56**	27.64	0.92	**28.56**	28.67	0.96	**29.62**	29.25	0.98	**30.22**	29.84	1.00	**30.83**	30.44	1.02	**31.45**	31.05	1.04	**32.09**
SHELBY	665.45	-	**665.45**	672.98	-	**672.98**	827.68	-	**827.68**	922.82	-	**922.82**	1,028.90	-	**1,028.90**	1,147.16	-	**1,147.16**	1,279.03	-	**1,279.03**
STCLAIR	4.46	-	**4.46**	5.71	-	**5.71**	6.75	-	**6.75**	8.29	-	**8.29**	10.18	-	**10.18**	12.51	-	**12.51**	15.37	-	**15.37**
SUMTER	2.03	-	**2.03**	2.28	-	**2.28**	2.56	-	**2.56**	3.02	-	**3.02**	3.58	-	**3.58**	4.24	-	**4.24**	5.04	-	**5.04**
TALLADEGA	24.67	-	**24.67**	22.12	-	**22.12**	20.17	-	**20.17**	18.23	-	**18.23**	16.48	-	**16.48**	14.89	-	**14.89**	13.46	-	**13.46**
TALLAPOOSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUSCALOOSA	2.12	0.74	**2.86**	2.00	0.76	**2.76**	2.39	0.84	**3.23**	2.74	1.03	**3.77**	3.18	1.28	**4.46**	3.75	1.60	**5.35**	4.46	2.01	**6.47**
WALKER	922.82	-	**922.82**	933.26	-	**933.26**	1,147.79	-	**1,147.79**	1,279.72	-	**1,279.72**	1,426.83	-	**1,426.83**	1,590.84	-	**1,590.84**	1,773.70	-	**1,773.70**
WASHINGTON	80.39	6.15	**86.55**	81.66	6.73	**88.39**	99.84	8.69	**108.53**	111.28	10.37	**121.65**	124.04	12.39	**136.43**	138.26	14.84	**153.09**	154.11	17.79	**171.90**
WILCOX	20.13	-	**20.13**	18.05	-	**18.05**	16.46	-	**16.46**	14.87	-	**14.87**	13.45	-	**13.45**	12.15	-	**12.15**	10.99	-	**10.99**
WINSTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	8,744.16	45.64	**8,789.79**	7,396.31	50.97	**7,447.28**	7,982.86	58.29	**8,041.16**	8,746.51	67.57	**8,814.08**	9,780.06	79.39	**9,859.45**	11,240.07	94.56	**11,334.63**

Table D-6: Water Withdrawal (in MGD) by HUC - International Forecasting Service GDP

	2010			2015			2020			2025			2030			2035			2040		
HUC	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**	**Surface**	**Ground**	**Total**
03130002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03130003	27.64	2.50	**30.14**	27.64	2.25	**29.88**	28.67	2.41	**31.08**	29.25	2.37	**31.62**	29.84	2.34	**32.17**	30.44	2.31	**32.74**	31.05	2.28	**33.33**
03130004	89.20	0.44	**89.64**	81.69	0.57	**82.25**	89.00	0.62	**89.62**	87.67	0.64	**88.32**	86.37	0.67	**87.03**	85.08	0.69	**85.77**	83.81	0.72	**84.53**
03130012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140201	-	0.27	**0.27**	-	1.40	**1.40**	-	1.53	**1.53**	-	1.51	**1.51**	-	1.49	**1.49**	-	1.48	**1.48**	-	1.47	**1.47**
03140202	-	1.13	**1.13**	-	0.95	**0.95**	-	1.04	**1.04**	-	1.00	**1.00**	-	0.96	**0.96**	-	0.93	**0.93**	-	0.89	**0.89**
03140203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140301	1.74	-	**1.74**	1.76	-	**1.76**	2.16	-	**2.16**	2.41	-	**2.41**	2.68	-	**2.68**	2.99	-	**2.99**	3.34	-	**3.34**
03140302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03140303	-	0.30	**0.30**	-	0.27	**0.27**	-	0.25	**0.25**	-	0.22	**0.22**	-	0.20	**0.20**	-	0.18	**0.18**	-	0.17	**0.17**
03140304	33.61	1.38	**34.99**	40.92	1.57	**42.48**	44.17	1.77	**45.94**	50.71	2.00	**52.71**	58.22	2.26	**60.48**	66.84	2.56	**69.40**	76.74	2.90	**79.63**
03140305	-	0.09	**0.09**	-	0.09	**0.09**	-	0.11	**0.11**	-	0.12	**0.12**	-	0.15	**0.15**	-	0.17	**0.17**	-	0.20	**0.20**
03150105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150106	152.91	0.97	**153.88**	155.04	0.98	**156.02**	181.68	1.04	**182.73**	199.62	1.09	**200.71**	220.29	1.13	**221.42**	244.02	1.18	**245.19**	271.19	1.22	**272.41**
03150107	665.45	-	**665.45**	672.98	-	**672.98**	827.68	-	**827.68**	922.82	-	**922.82**	1,028.90	-	**1,028.90**	1,147.16	-	**1,147.16**	1,279.03	-	**1,279.03**
03150108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03150201	64.62	10.33	**74.95**	61.44	17.79	**79.23**	60.34	18.68	**79.03**	58.64	20.65	**79.29**	57.21	23.06	**80.26**	56.04	26.00	**82.04**	55.11	29.64	**84.75**
03150202	-	0.16	**0.16**	0.03	0.20	**0.23**	0.03	0.24	**0.27**	0.04	0.29	**0.33**	0.05	0.36	**0.40**	0.06	0.44	**0.49**	0.07	0.54	**0.61**
03150203	20.13	-	**20.13**	18.05	-	**18.05**	16.46	-	**16.46**	14.87	-	**14.87**	13.45	-	**13.45**	12.15	-	**12.15**	10.99	-	**10.99**
03150204	46.31	0.39	**46.70**	47.54	0.69	**48.23**	46.54	0.81	**47.35**	52.18	1.02	**53.20**	58.49	1.29	**59.78**	65.58	1.62	**67.20**	73.53	2.03	**75.57**
03160101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160105	-	0.11	**0.11**	-	0.12	**0.12**	-	0.13	**0.13**	-	0.15	**0.15**	-	0.16	**0.16**	-	0.18	**0.18**	-	0.20	**0.20**
03160106	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**	-	0.01	**0.01**
03160107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160109	924.65	0.43	**925.08**	936.04	0.76	**936.81**	1,150.93	0.90	**1,151.83**	1,283.17	1.13	**1,284.30**	1,430.68	1.42	**1,432.10**	1,595.23	1.79	**1,597.01**	1,778.78	2.25	**1,781.03**
03160110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03160111	-	0.34	**0.34**	-	0.35	**0.35**	-	0.37	**0.37**	-	0.38	**0.38**	-	0.40	**0.40**	-	0.41	**0.41**	-	0.42	**0.42**
03160112	2.19	0.20	**2.39**	1.70	0.18	**1.88**	2.22	0.19	**2.41**	2.25	0.19	**2.44**	2.27	0.20	**2.47**	2.29	0.21	**2.50**	2.31	0.22	**2.53**
03160113	355.47	0.58	**356.05**	359.59	0.64	**360.23**	442.12	0.72	**442.84**	493.13	0.92	**494.05**	550.06	1.17	**551.24**	613.61	1.50	**615.11**	684.54	1.93	**686.47**
03160201	59.50	-	**59.50**	55.29	-	**55.29**	52.71	-	**52.71**	49.99	-	**49.99**	47.60	-	**47.60**	45.50	-	**45.50**	43.69	-	**43.69**
03160202	1.11	-	**1.11**	1.34	-	**1.34**	1.64	-	**1.64**	1.99	-	**1.99**	2.43	-	**2.43**	2.95	-	**2.95**	3.59	-	**3.59**
03160203	100.60	7.08	**107.68**	99.78	7.86	**107.63**	116.36	9.95	**126.30**	126.21	11.84	**138.06**	137.53	14.12	**151.65**	150.46	16.86	**167.32**	165.13	20.16	**185.29**
03160204	991.17	4.94	**996.11**	1,002.53	6.63	**1,009.16**	1,232.89	7.49	**1,240.38**	1,374.66	9.12	**1,383.78**	1,532.74	11.28	**1,544.02**	1,708.99	14.20	**1,723.19**	1,905.52	18.13	**1,923.65**
03160205	-	1.16	**1.16**	-	1.88	**1.88**	-	2.21	**2.21**	-	3.07	**3.07**	-	4.29	**4.29**	-	6.00	**6.00**	-	8.43	**8.43**
03170002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03170009	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**	-	0.00	**0.00**
06020001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030001	1,054.12	0.08	**1,054.20**	1,065.94	0.09	**1,066.03**	9.23	0.12	**9.36**	9.42	0.14	**9.56**	9.61	0.15	**9.76**	9.80	0.16	**9.97**	10.00	0.18	**10.18**
06030002	2,867.15	0.00	**2,867.15**	2,761.23	0.00	**2,761.24**	2,998.24	0.01	**2,998.24**	3,115.48	0.01	**3,115.49**	3,351.69	0.01	**3,351.70**	3,792.87	0.02	**3,792.88**	4,587.86	0.02	**4,587.89**
06030003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06030005	1,331.41	0.31	**1,331.72**	1,353.63	0.35	**1,353.98**	93.23	0.37	**93.60**	108.35	0.41	**108.76**	126.42	0.45	**126.87**	148.00	0.50	**148.50**	173.78	0.55	**174.34**
06030006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8,788.97	33.20	**8,822.17**	8,744.16	45.64	**8,789.79**	7,396.31	50.97	**7,447.28**	7,982.86	58.29	**8,041.16**	8,746.51	67.57	**8,814.08**	9,780.06	79.39	**9,859.45**	11,240.07	94.56	**11,334.63**

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Appendix E

Hydroelectric Dams

Table E-1 provides the name, county and community location, year completed, generating capacity in kilowatt-hours, reservoir surface area, and length of shoreline for each hydroelectric power plant.

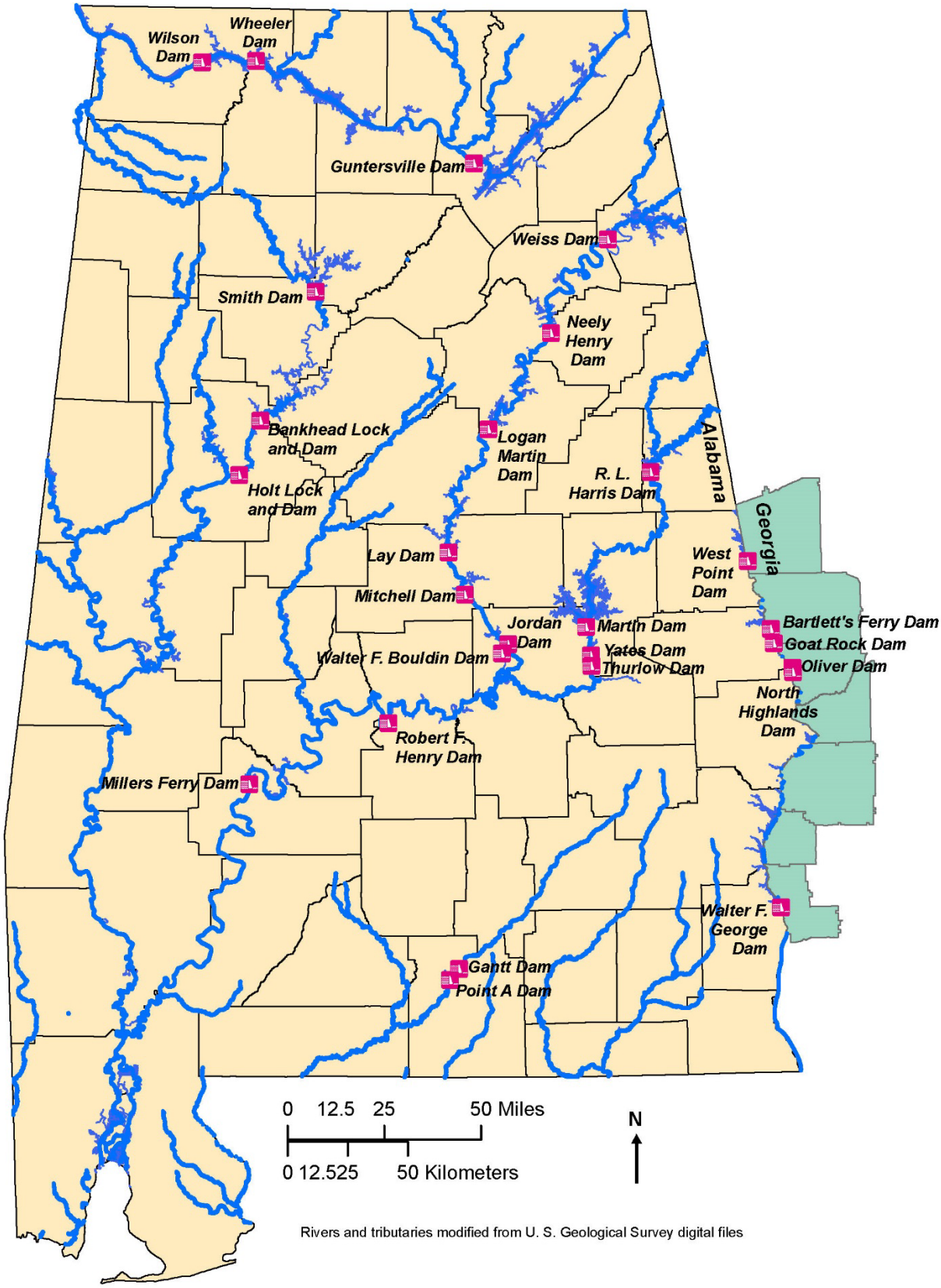
Figure E-1 is a map of Alabama showing the locations of the hydroelectric dams and the major river systems in Alabama. Alabama Power Company, PowerSouth Energy Cooperative, the Tennessee Valley Authority, and the US Army Corps of Engineers manage 21 hydroelectric dams on the Tennessee. Black Warrior, Coosa, Tallapoosa, Alabama, and Conecuh Rivers. Georgia Power Company, and The US Army Corps of Engineers manage six hydroelectric dams on the Chattahoochee River separating Alabama and Georgia.

Table E-1. Hydroelectric dams in Alabama, 2010

[Location indicates the nearest city to the dam, not necessarily the location of the dam or the business offices; kWh, kilowatt-hour; AL, Alabama; TVA, Tennessee Valley Authority; APC, Alabama Power Company; USACE, U.S. Army Corps of Engineers; GA, Georgia; GPC, Georgia Power Company; PSEC, PowerSouth Energy Cooperative]

Hydroelectric dam	County	Location	Year Completed	Generating Capacity (kWh)	Area(surface acres)	Length of Shoreline (miles)	Operator
Tennessee River							
Guntersville Dam	Marshall	Guntersville, AL	1939	140,400	67,900	890	TVA
Wheeler Dam	Lauderdale	Decatur, AL	1936	411,800	67,070	1,027	TVA
Wilson Dam	Lauderdale	Florence, AL	1924	675,400	15,500	166	TVA
Black Warrior River							
Smith Dam	Walker, Cullman	Jasper, AL	1961	157,500	21,200	500	APC
Bankhead Lock and Dam	Tuscaloosa	Northport, AL	1963	53,985	9,200	400	APC
Holt Lock and Dam	Tuscaloosa	Northport, AL	1968	49,000	3,296	45	APC
Coosa River							
Weiss Dam	Cherokee	Leesburg, AL	1961	87,750	30,200	447	APC
Neely Henry Dam	Calhoun, St. Clair	Ohatchee, AL	1966	72,900	11,200	339	APC
Logan Martin Dam	St. Clair, Talladega	Vincent, AL	1964	128,250	15,263	275	APC
Lay Dam	Chilton, Coosa	Clanton, AL	1914	177,000	12,000	289	APC
Mitchell Dam	Chilton, Coosa	Verbena, AL	1923	170,000	5,850	147	APC
Jordan Dam	Elmore	Wetumpka, AL	1928	100,000	6,800	118	APC
Walter Bouldin Dam	Elmore	Wetumpka, AL	1967	225,000	6,800	118	APC
Tallapoosa River							
R.L. Harris Dam	Randolph	Wedowee, AL	1983	135,000	10,660	271	APC
Martin Dam	Elmore, Tallapoosa	Dadeville, AL	1926	154,200	40,000	700	APC
Yates Dam	Elmore, Tallapoosa	Tallassee, AL	1928	45,500	2,000	40	APC
Thurlow Dam	Elmore, Tallapoosa	Tallassee, AL	1930	85,000	574	6	APC
Alabama River							
Robert F. Henry Dam	Autauga, Lowndes	Benton, AL	1972	72,000	12,800	368	USACE
Millers Ferry Dam	Wilcox	Millers Ferry, AL	1970	90,000	17,280	500	USACE
Chattahoochee River							
West Point Dam	Troup GA / Chambers AL	West Point, GA	1975	82,200	25,900	525	USACE
Goat Rock Dam	Harris GA / Lee AL	Phenix City, AL	1915	38,600	940	25	GPC
Bartlett's Ferry Dam	Harris GA / Lee AL	Phenix City, AL	1926	173,000	5,850	156	GPC
Oliver Dam	Muscogee GA / Lee AL	Columbus, GA	1959	60,000	2,150	40	GPC
North Highlands Dam	Muscogee GA / Lee AL	Columbus, GA	1903	29,600	131	3	GPC
Walter F. George Dam	Clay GA / Henry AL	Eufaula, AL	1963	160,000	45,180	640	USACE
Gantt Dam	Covington	Andalusia, AL	1920	5,200	2,700	21	PSEC
Point A Dam	Covington	Andalusia, AL	1920	3,200	600	15	PSEC

Figure E-1. Hydroelectric dams in Alabama, 2010.



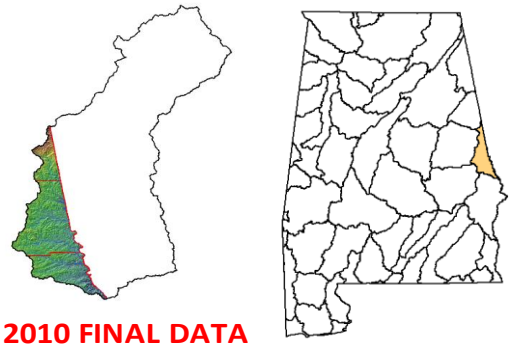
Appendix F

Subbasin Demand Summaries for 2010 and 2040

The following summaries of water-use information display current (2010) and projected (2040) withdrawal, returns, and net consumption (net demand) in Million Gallons per Day (MGD) by water use sector for each subbasin in Alabama. The summaries include both population for the time period and land area in the State of Alabama for each subbasin.

For each time period, the tables list the monthly withdrawals and returns by source of water used (surface water [SW] or groundwater [GW]) by subbasin and water use sector. The summaries also include tabular and graphical summaries of total withdrawals and returns and net consumption (net demand) for each subbasin. Numbers may not sum to total withdrawals because of rounding.

03130002-Middle Chattahoochee-Lake Harding



Area in AL (Square Miles)	559.1
Estimated Population (2010)*	56,576

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Apalachicola

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Public Supply	SW	12.21	10.60	10.36	11.96	12.52	12.84	13.87	14.64	15.60	11.80	11.03	11.12	12.38
Industrial/Mining	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Industrial/Mining	SW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.09	0.11	0.13	0.22	0.30	0.44	0.49	0.39	0.29	0.23	0.13	0.10	0.24
Agriculture	SW	0.16	0.18	0.23	0.44	0.61	0.85	0.96	0.79	0.69	0.50	0.25	0.17	0.49
Total	**SW**	**12.39**	**10.80**	**10.62**	**12.43**	**13.15**	**13.72**	**14.86**	**15.46**	**16.31**	**12.32**	**11.30**	**11.31**	**12.89**
Total	**GW**	**0.83**	**0.84**	**0.87**	**0.95**	**1.03**	**1.17**	**1.22**	**1.12**	**1.03**	**0.96**	**0.86**	**0.83**	**0.98**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.91	5.73	5.93	3.97	4.73	3.79	3.28	3.52	3.10	2.81	2.60	2.86	4.02
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		1.91	1.97	2.14	1.77	2.59	1.90	2.43	2.76	2.26	2.31	2.12	1.68	2.15
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**7.82**	**7.71**	**8.06**	**5.74**	**7.31**	**5.69**	**5.71**	**6.28**	**5.36**	**5.12**	**4.72**	**4.54**	**6.17**

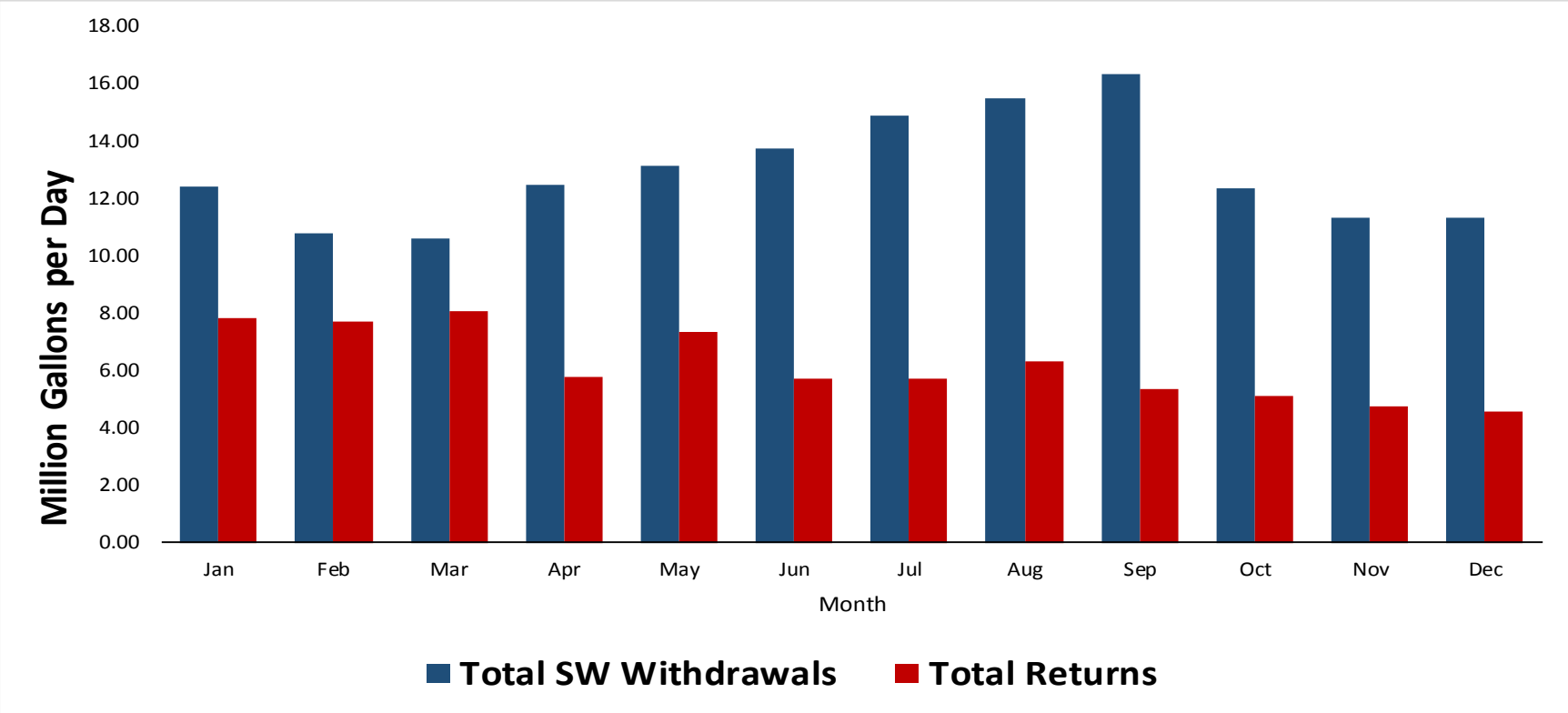
03130002-Middle Chattahoochee-Lake Harding

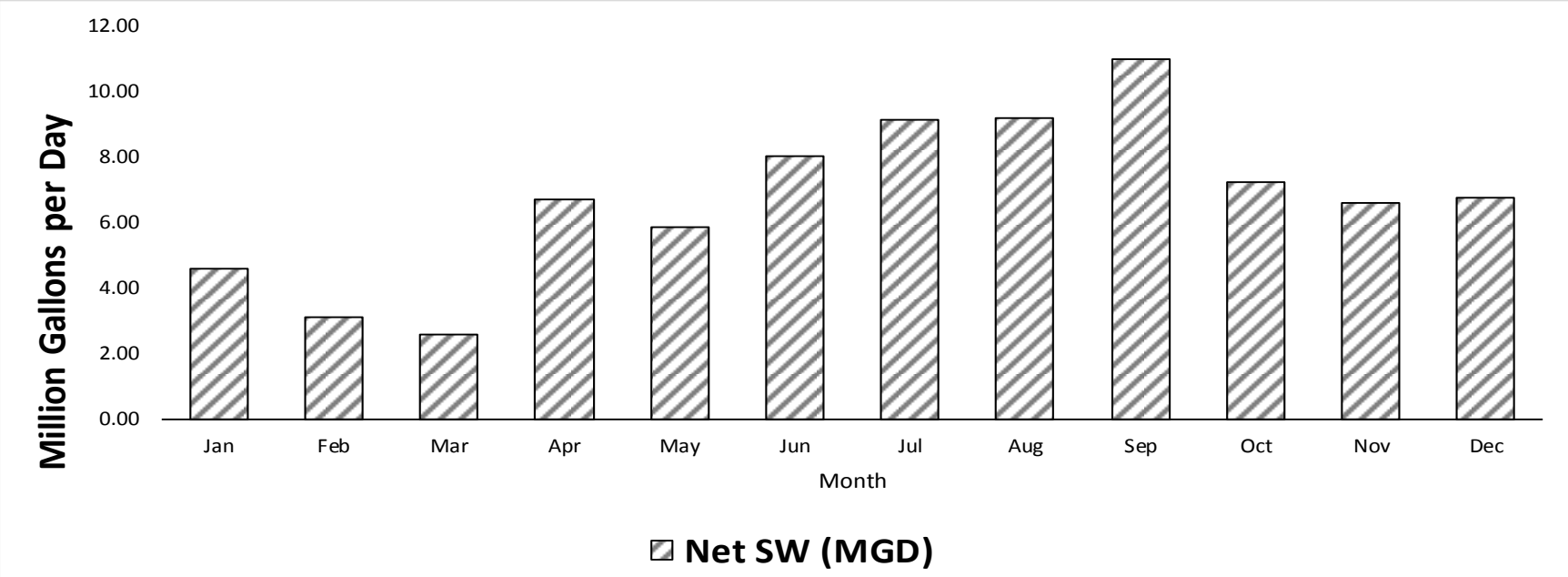
2010 FINAL DATA

Total SW Withdrawals	SW	12.39	10.80	10.62	12.43	13.15	13.72	14.86	15.46	16.31	12.32	11.30	11.31	12.89
Total GW Withdrawals	GW	0.83	0.84	0.87	0.95	1.03	1.17	1.22	1.12	1.03	0.96	0.86	0.83	0.98
Withdrawal Total		13.22	11.63	11.48	13.39	14.18	14.89	16.08	16.57	17.34	13.28	12.16	12.14	13.86
Total Returns		**7.82**	**7.71**	**8.06**	**5.74**	**7.31**	**5.69**	**5.71**	**6.28**	**5.36**	**5.12**	**4.72**	**4.54**	**6.17**
Net SW (MGD)	SW	**4.57**	**3.09**	**2.56**	**6.69**	**5.84**	**8.03**	**9.14**	**9.17**	**10.96**	**7.20**	**6.59**	**6.76**	**6.72**

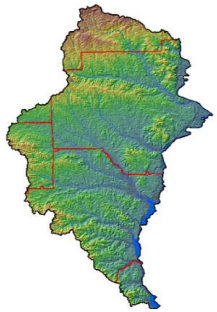
03130002-Middle Chattahoochee-Lake Harding

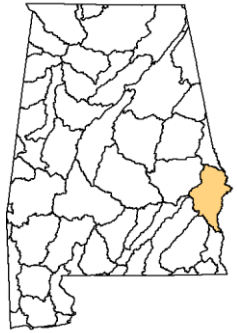
2010 FINAL DATA





03130003-Middle Chattahoochee-W.F. George Res.





Area in AL (Square Miles)	1,426.7
Estimated Population (2010)*	108,424

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Apalachicola

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	4.44	3.80	3.74	4.46	4.68	4.63	4.69	4.53	4.84	4.33	3.72	3.68	4.30
Public Supply	SW	6.65	6.14	6.16	6.97	6.16	8.16	9.39	8.78	8.67	7.51	6.78	6.43	7.32
Industrial/Mining	GW	2.91	3.02	3.04	3.04	2.97	3.04	3.00	3.03	3.23	3.12	2.85	2.90	3.01
Industrial/Mining	SW	28.36	29.30	29.08	27.53	27.01	28.37	27.26	26.36	26.86	28.36	28.37	27.66	27.88
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.25	0.31	0.43	0.83	1.18	1.78	2.00	1.53	1.14	0.84	0.41	0.28	0.91
Agriculture	SW	1.73	2.17	3.83	8.90	11.37	15.88	18.13	14.49	13.16	9.88	4.12	2.18	8.82
Total	**SW**	**36.75**	**37.61**	**39.08**	**43.41**	**44.55**	**52.42**	**54.78**	**49.63**	**48.69**	**45.75**	**39.27**	**36.27**	**44.02**
Total	**GW**	**7.61**	**7.13**	**7.21**	**8.33**	**8.82**	**9.44**	**9.69**	**9.09**	**9.21**	**8.30**	**6.98**	**6.87**	**8.22**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		8.45	8.67	7.97	6.34	7.24	5.31	4.41	4.21	3.95	3.49	3.26	3.02	5.53
Industrial/Mining		15.06	16.36	15.91	24.25	24.79	24.17	21.38	21.01	21.40	21.32	26.69	22.39	21.23
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**23.51**	**25.04**	**23.88**	**30.58**	**32.03**	**29.47**	**25.79**	**25.22**	**25.35**	**24.81**	**29.94**	**25.41**	**26.75**

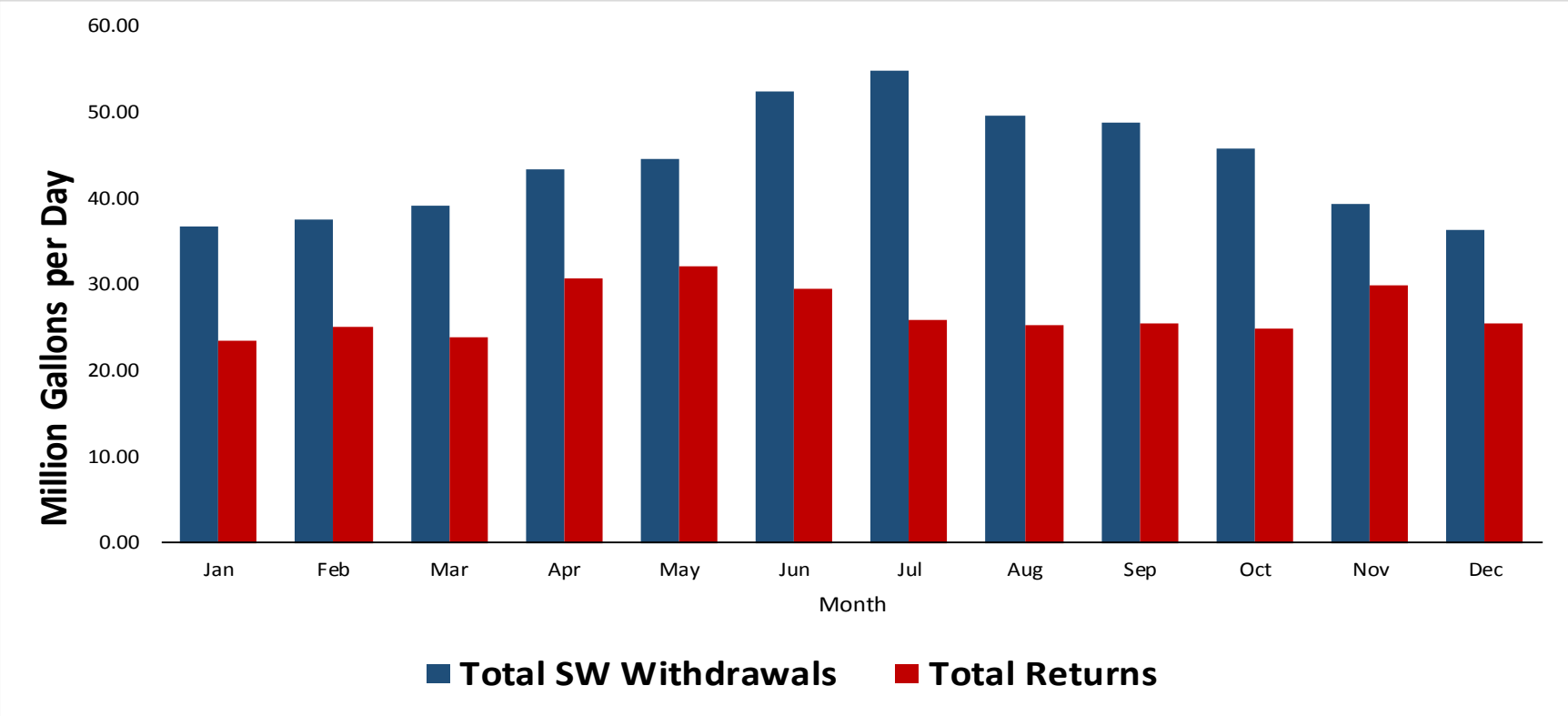
03130003-Middle Chattahoochee-W.F. George Res.

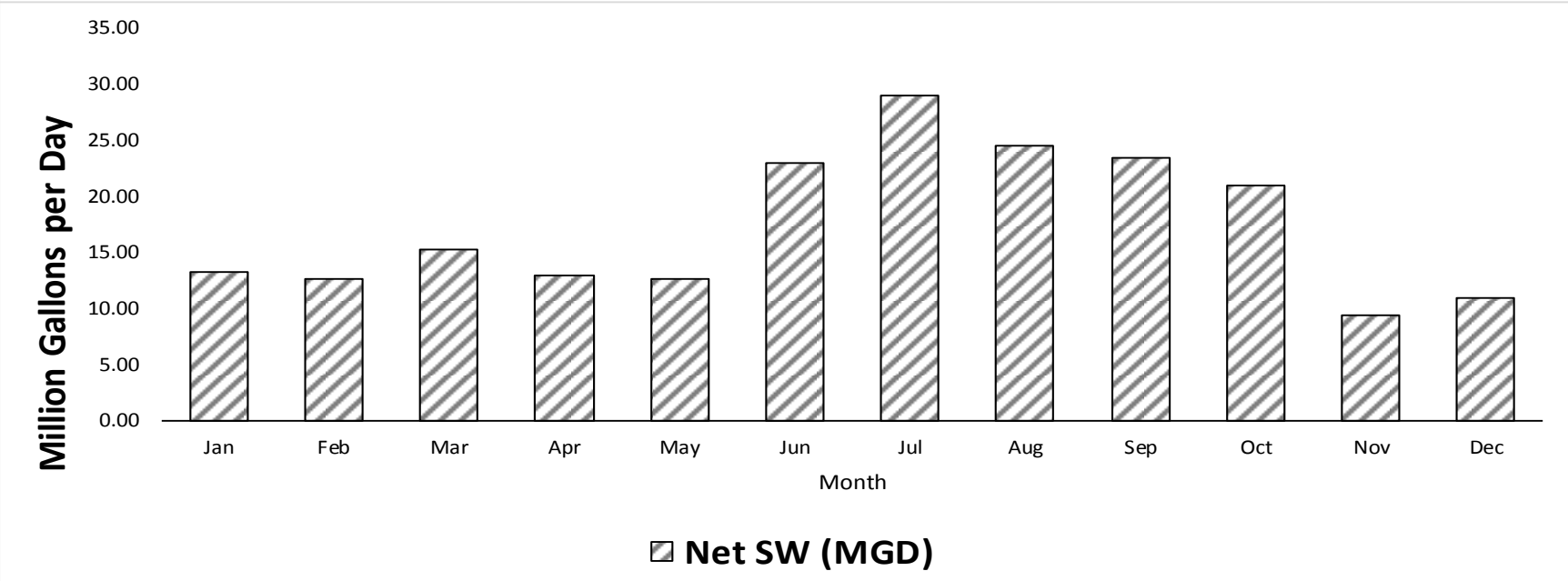
2010 FINAL DATA

Total SW Withdrawals	SW	36.75	37.61	39.08	43.41	44.55	52.42	54.78	49.63	48.69	45.75	39.27	36.27	44.02
Total GW Withdrawals	GW	7.61	7.13	7.21	8.33	8.82	9.44	9.69	9.09	9.21	8.30	6.98	6.87	8.22
Withdrawal Total		44.35	44.73	46.29	51.74	53.37	61.86	64.47	58.72	57.90	54.05	46.25	43.14	52.24
Total Returns		**23.51**	**25.04**	**23.88**	**30.58**	**32.03**	**29.47**	**25.79**	**25.22**	**25.35**	**24.81**	**29.94**	**25.41**	**26.75**
Net SW (MGD)	SW	**13.24**	**12.57**	**15.20**	**12.83**	**12.52**	**22.95**	**28.99**	**24.41**	**23.35**	**20.95**	**9.33**	**10.86**	**17.27**

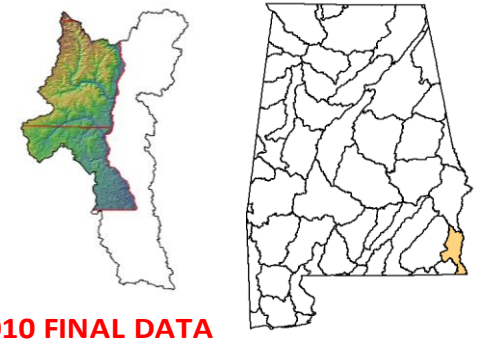
03130003-Middle Chattahoochee-W.F. George Res.

2010 FINAL DATA





03130004-Lower Chattahoochee



Area in AL (Square Miles)	578.3
Estimated Population (2010)*	34,447

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Apalachicola

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	9.26	9.61	9.13	10.76	11.34	11.05	10.48	11.28	11.64	10.78	11.30	10.66	10.61
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.47	0.43	0.49	0.42	0.43	0.46	0.46	0.46	0.41	0.41	0.42	0.42	0.44
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	69.63	71.79	63.73	62.05	76.30	107.91	118.37	125.69	119.43	92.75	81.03	81.68	89.20
Agriculture	GW	0.41	0.77	1.12	2.62	5.52	10.11	11.37	8.02	4.05	2.29	0.76	0.45	3.96
Agriculture	SW	0.48	0.70	1.04	2.30	4.04	6.82	7.68	5.63	3.49	2.25	0.89	0.54	2.99
Total	**SW**	**70.11**	**72.49**	**64.77**	**64.35**	**80.34**	**114.73**	**126.05**	**131.32**	**122.92**	**95.00**	**81.92**	**82.22**	**92.18**
Total	**GW**	**10.14**	**10.80**	**10.73**	**13.80**	**17.29**	**21.62**	**22.31**	**19.75**	**16.11**	**13.47**	**12.48**	**11.54**	**15.00**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		6.79	7.42	5.32	4.38	3.85	3.41	3.35	3.33	3.23	3.06	3.04	2.92	4.17
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		75.56	80.78	71.24	66.66	81.31	87.46	93.63	97.76	94.59	79.63	76.89	72.97	81.54
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**82.35**	**88.20**	**76.56**	**71.04**	**85.16**	**90.87**	**96.98**	**101.09**	**97.82**	**82.69**	**79.93**	**75.89**	**85.71**

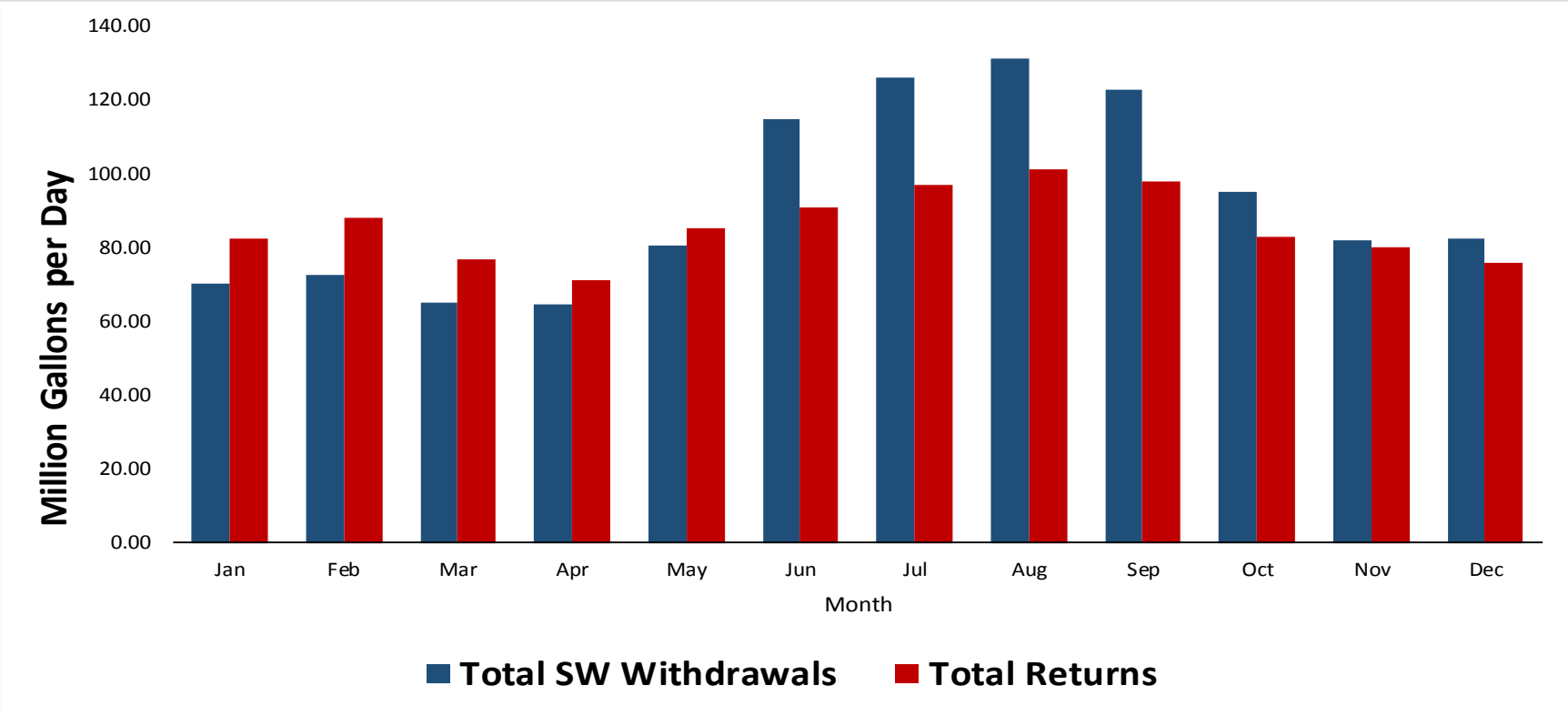
03130004-Lower Chattahoochee

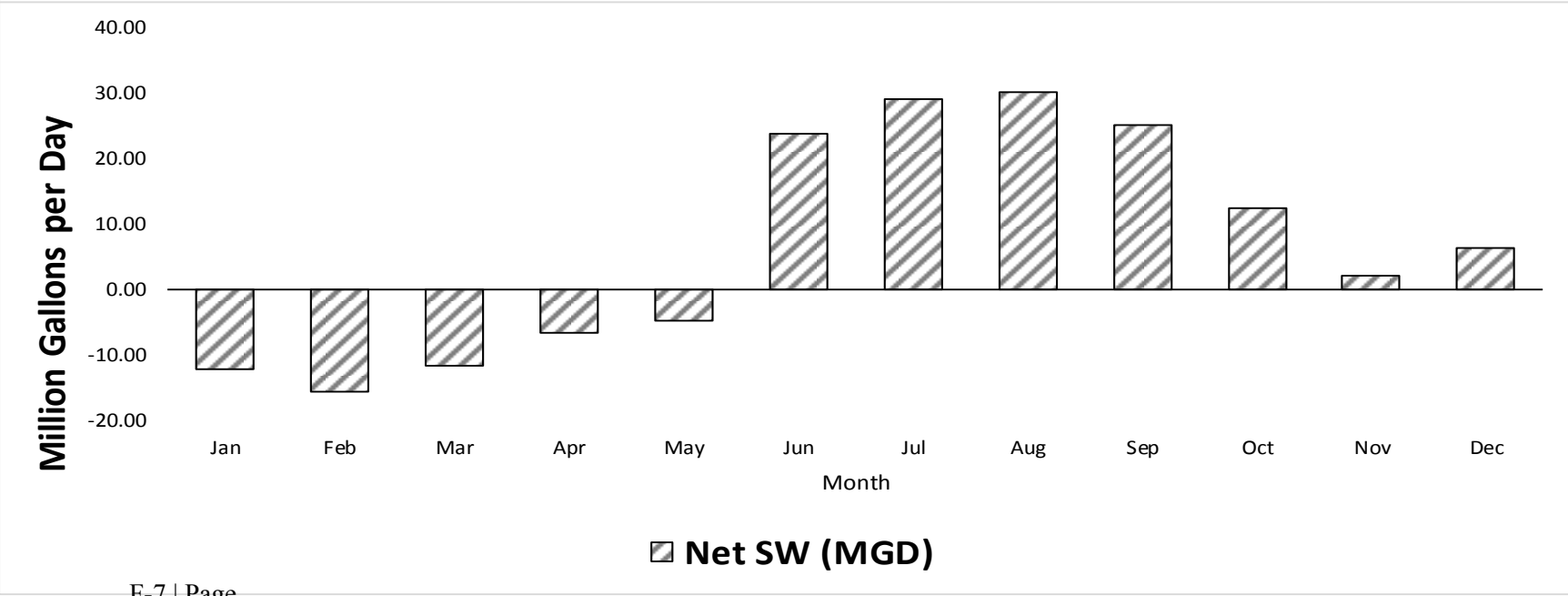
2010 FINAL DATA

Total SW Withdrawals	SW	70.11	72.49	64.77	64.35	80.34	114.73	126.05	131.32	122.92	95.00	81.92	82.22	92.18
Total GW Withdrawals	GW	10.14	10.80	10.73	13.80	17.29	21.62	22.31	19.75	16.11	13.47	12.48	11.54	15.00
Withdrawal Total		80.25	83.30	75.50	78.16	97.63	136.35	148.37	151.07	139.02	108.47	94.40	93.76	107.19
Total Returns		**82.35**	**88.20**	**76.56**	**71.04**	**85.16**	**90.87**	**96.98**	**101.09**	**97.82**	**82.69**	**79.93**	**75.89**	**85.71**
Net SW (MGD)	SW	**-12.24**	**-15.71**	**-11.79**	**-6.69**	**-4.82**	**23.86**	**29.08**	**30.23**	**25.09**	**12.30**	**1.99**	**6.34**	**6.47**

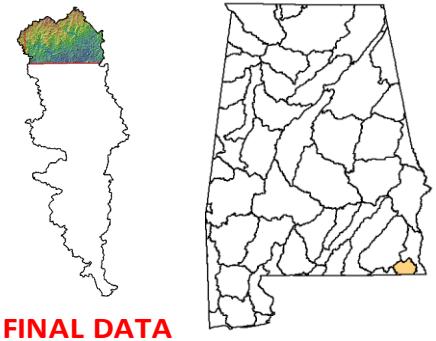
03130004-Lower Chattahoochee

2010 FINAL DATA





03130012-Chipola



Area in AL (Square Miles)	265.1
Estimated Population (2010)*	32,769

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Apalachicola

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	3.80	2.78	2.73	3.21	3.17	3.44	3.61	3.31	3.57	3.49	2.73	2.75	3.22
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.29	0.63	0.92	2.22	4.97	9.29	10.45	7.31	3.50	1.88	0.56	0.32	3.53
Agriculture	SW	0.19	0.28	0.40	1.00	1.87	3.16	3.58	2.71	1.78	1.08	0.36	0.19	1.38
Total	**SW**	**0.19**	**0.28**	**0.40**	**1.00**	**1.87**	**3.16**	**3.58**	**2.71**	**1.78**	**1.08**	**0.36**	**0.19**	**1.38**
Total	**GW**	**4.10**	**3.41**	**3.65**	**5.43**	**8.13**	**12.73**	**14.05**	**10.62**	**7.07**	**5.36**	**3.28**	**3.07**	**6.74**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		3.13	3.42	1.84	1.27	1.46	1.29	1.19	1.28	1.18	1.07	1.19	1.17	1.62
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**3.13**	**3.42**	**1.84**	**1.27**	**1.46**	**1.29**	**1.19**	**1.28**	**1.18**	**1.07**	**1.19**	**1.17**	**1.62**

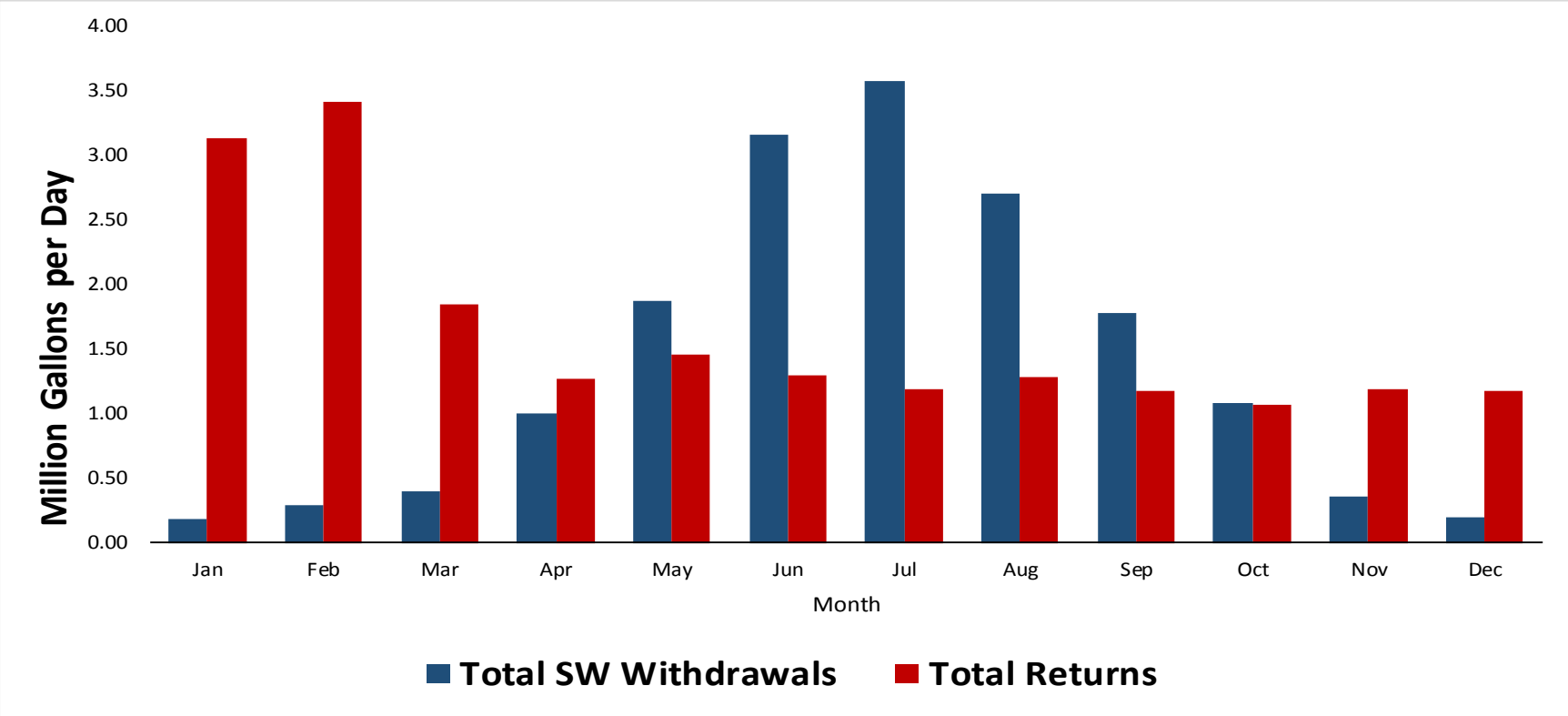
03130012-Chipola

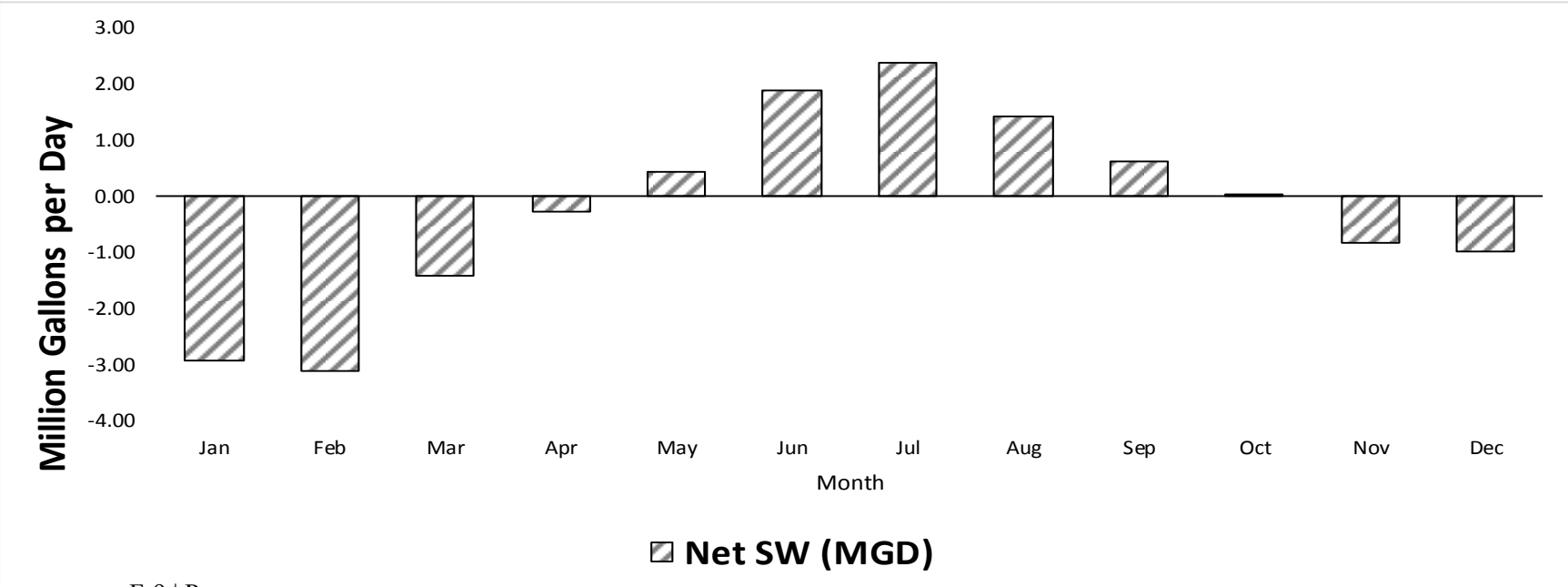
2010 FINAL DATA

Total SW Withdrawals	SW	0.19	0.28	0.40	1.00	1.87	3.16	3.58	2.71	1.78	1.08	0.36	0.19	1.38
Total GW Withdrawals	GW	4.10	3.41	3.65	5.43	8.13	12.73	14.05	10.62	7.07	5.36	3.28	3.07	6.74
Withdrawal Total		4.28	3.70	4.05	6.43	10.00	15.90	17.63	13.33	8.85	6.45	3.64	3.27	8.13
Total Returns		**3.13**	**3.42**	**1.84**	**1.27**	**1.46**	**1.29**	**1.19**	**1.28**	**1.18**	**1.07**	**1.19**	**1.17**	**1.62**
Net SW (MGD)	SW	**-2.95**	**-3.13**	**-1.44**	**-0.27**	**0.42**	**1.87**	**2.39**	**1.43**	**0.60**	**0.01**	**-0.83**	**-0.98**	**-0.24**

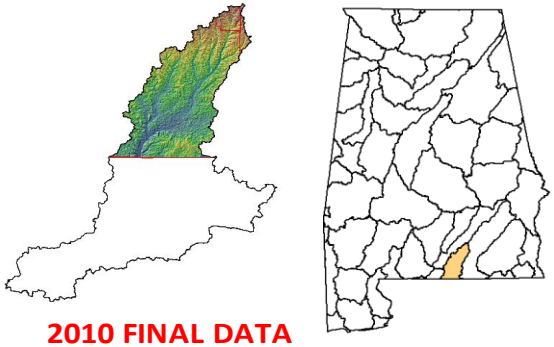
03130012-Chipola

2010 FINAL DATA





03140103-Yellow



Area in AL (Square Miles)	514.7
Estimated Population (2010)*	21,009

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	2.01	1.60	1.54	1.79	2.00	2.12	2.23	1.95	1.85	1.88	1.51	1.69	1.85
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.05	0.05	0.07	0.09	0.09	0.10	0.10	0.09	0.08	0.07	0.06	0.05	0.07
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.22	0.24	0.33	0.60	0.70	0.89	1.00	0.83	0.79	0.65	0.35	0.25	0.57
Agriculture	SW	0.41	0.44	0.59	1.04	1.24	1.61	1.80	1.52	1.45	1.15	0.62	0.45	1.03
Total	**SW**	**0.41**	**0.44**	**0.59**	**1.04**	**1.24**	**1.61**	**1.80**	**1.52**	**1.45**	**1.15**	**0.62**	**0.45**	**1.03**
Total	**GW**	**2.28**	**1.89**	**1.94**	**2.48**	**2.79**	**3.11**	**3.33**	**2.87**	**2.72**	**2.60**	**1.92**	**1.99**	**2.49**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.80	3.54	2.13	1.32	0.97	1.11	0.85	0.68	0.67	0.48	0.77	0.84	1.35
Industrial/Mining		0.12	0.08	0.15	0.18	0.19	0.18	0.24	0.22	0.27	0.20	0.21	0.17	0.18
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**2.92**	**3.62**	**2.28**	**1.50**	**1.16**	**1.30**	**1.09**	**0.89**	**0.93**	**0.67**	**0.97**	**1.01**	**1.53**

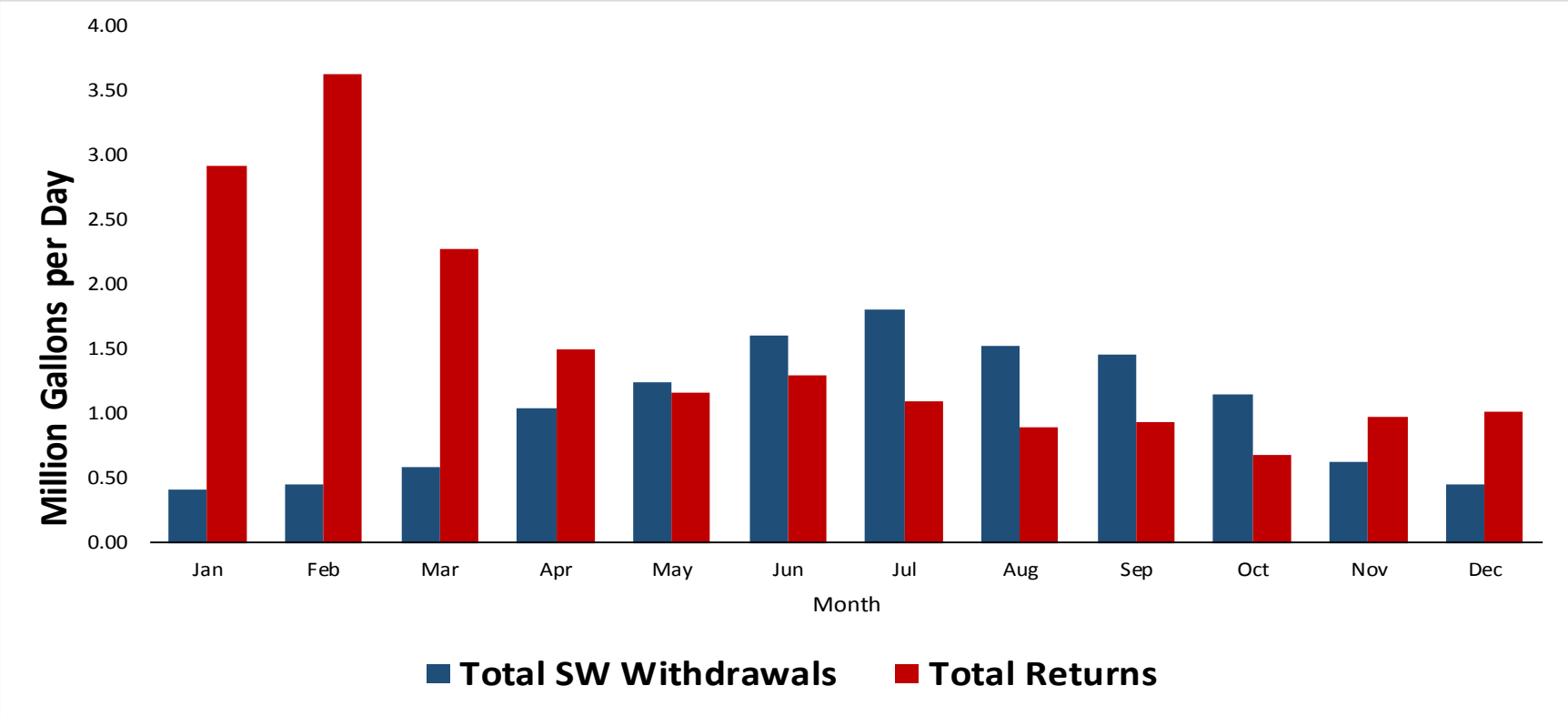
03140103-Yellow

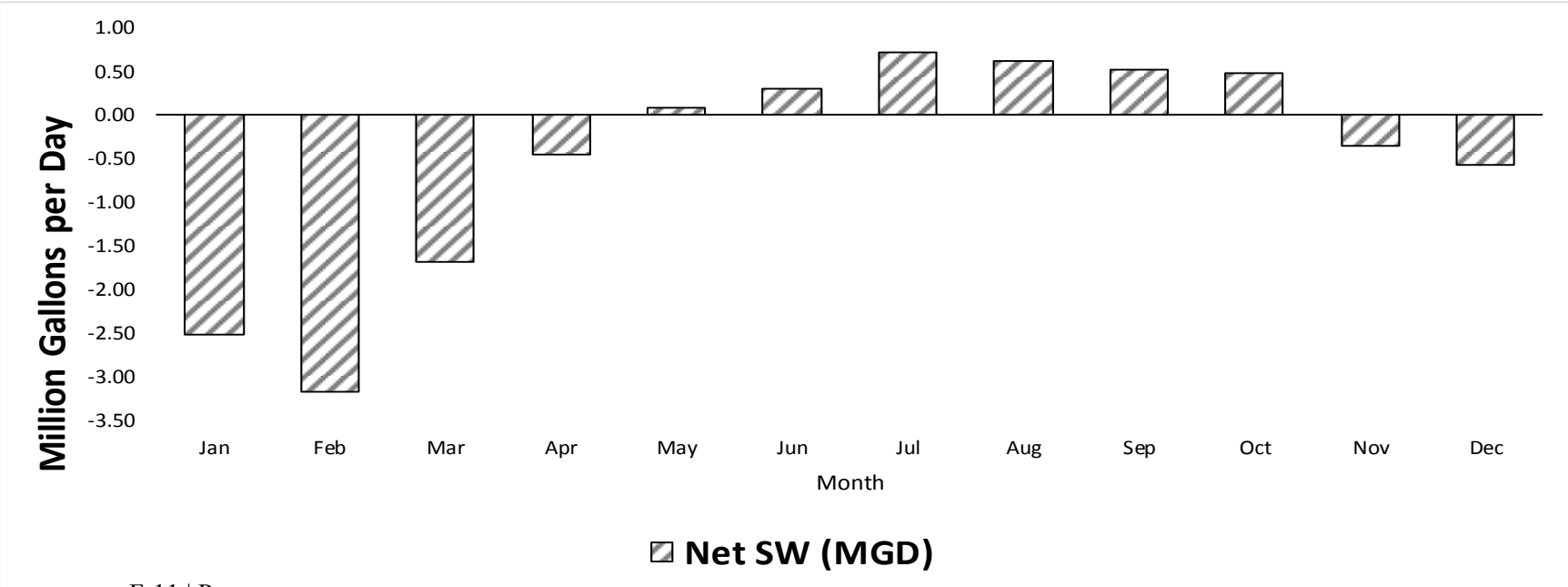
2010 FINAL DATA

Total SW Withdrawals	SW	0.41	0.44	0.59	1.04	1.24	1.61	1.80	1.52	1.45	1.15	0.62	0.45	1.03
Total GW Withdrawals	GW	2.28	1.89	1.94	2.48	2.79	3.11	3.33	2.87	2.72	2.60	1.92	1.99	2.49
Withdrawal Total		2.69	2.33	2.52	3.52	4.03	4.72	5.13	4.38	4.17	3.75	2.54	2.44	3.52
Total Returns		**2.92**	**3.62**	**2.28**	**1.50**	**1.16**	**1.30**	**1.09**	**0.89**	**0.93**	**0.67**	**0.97**	**1.01**	**1.53**
Net SW (MGD)	SW	**-2.51**	**-3.18**	**-1.69**	**-0.46**	**0.08**	**0.31**	**0.71**	**0.62**	**0.52**	**0.48**	**-0.35**	**-0.57**	**-0.50**

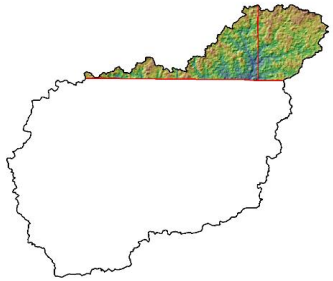
03140103-Yellow

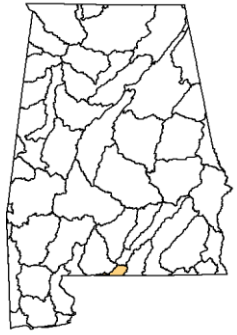
2010 FINAL DATA





03140104-Blackwater





Area in AL (Square Miles) 145.7

Estimated Population (2010)* 1,845

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	0.24	0.17	0.16	0.17	0.17	0.17	0.19	0.18	0.19	0.17	0.17	0.16	0.18
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.04	0.05	0.08	0.16	0.22	0.33	0.37	0.28	0.22	0.17	0.08	0.05	0.17
Agriculture	SW	0.05	0.06	0.08	0.15	0.18	0.24	0.27	0.22	0.19	0.15	0.08	0.06	0.14
Total	**SW**	**0.05**	**0.06**	**0.08**	**0.15**	**0.18**	**0.24**	**0.27**	**0.22**	**0.19**	**0.15**	**0.08**	**0.06**	**0.14**
Total	**GW**	**0.32**	**0.26**	**0.27**	**0.36**	**0.43**	**0.53**	**0.59**	**0.50**	**0.45**	**0.37**	**0.28**	**0.25**	**0.38**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

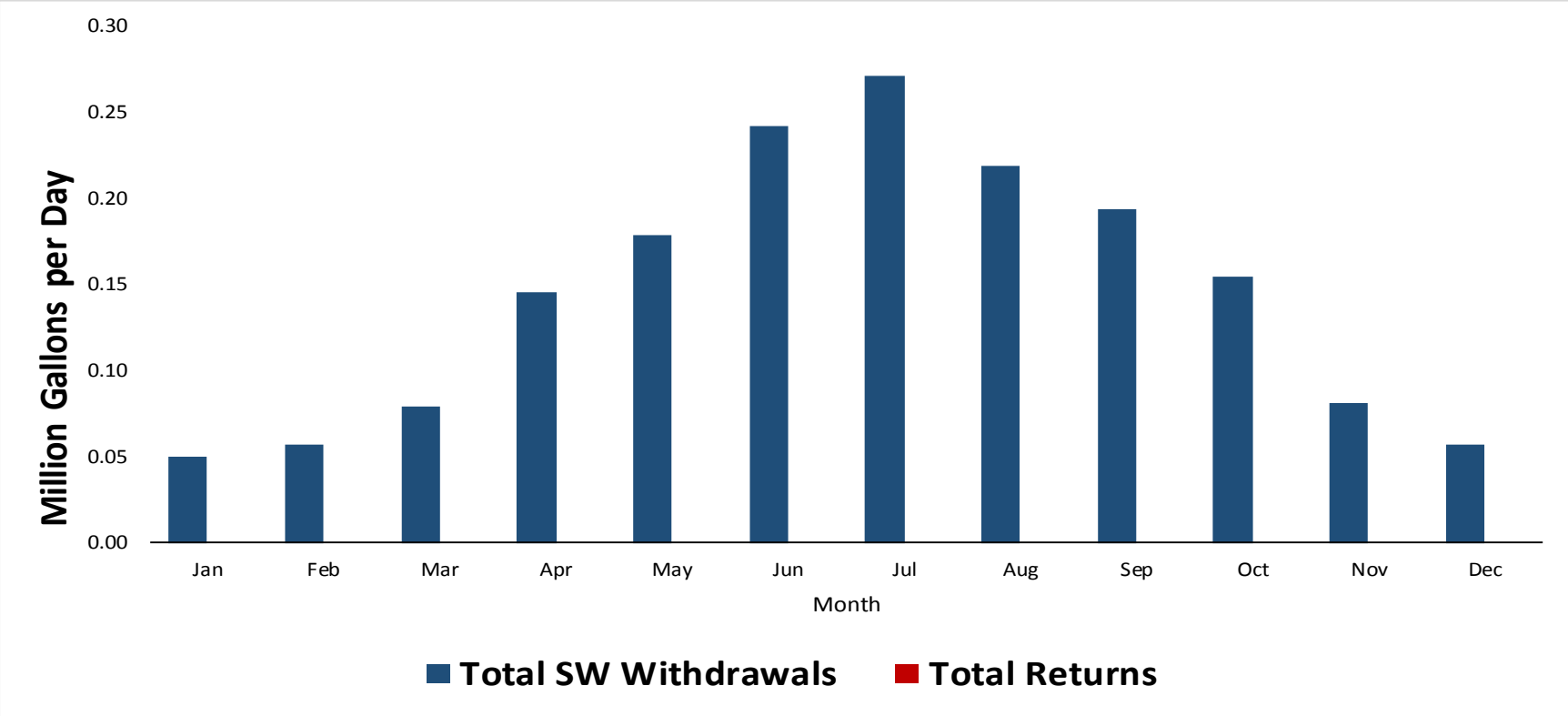
03140104-Blackwater

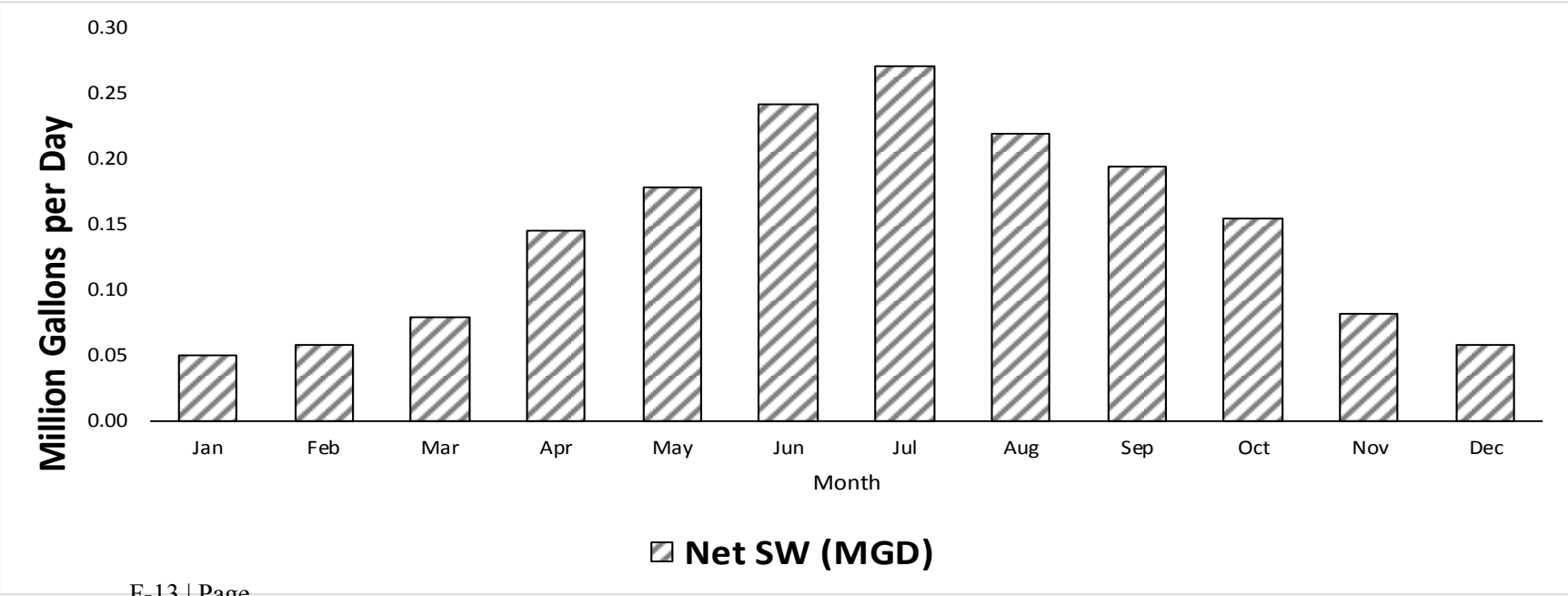
2010 FINAL DATA

Total SW Withdrawals	SW	0.05	0.06	0.08	0.15	0.18	0.24	0.27	0.22	0.19	0.15	0.08	0.06	0.14
Total GW Withdrawals	GW	0.32	0.26	0.27	0.36	0.43	0.53	0.59	0.50	0.45	0.37	0.28	0.25	0.38
Withdrawal Total		0.37	0.32	0.35	0.50	0.61	0.78	0.87	0.72	0.64	0.53	0.36	0.30	0.53
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.05**	**0.06**	**0.08**	**0.15**	**0.18**	**0.24**	**0.27**	**0.22**	**0.19**	**0.15**	**0.08**	**0.06**	**0.14**

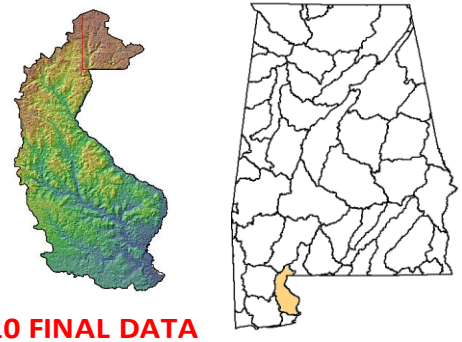
03140104-Blackwater

2010 FINAL DATA





03140106-Perdido



Area in AL (Square Miles)	679.6
Estimated Population (2010)*	8,238

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	4.63	4.40	4.60	5.16	4.76	4.72	4.50	4.68	4.36	4.20	3.78	4.70	4.54
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	2.73	3.21	6.07	13.89	15.35	19.21	22.06	18.26	19.35	15.55	6.82	3.60	12.18
Agriculture	SW	0.48	0.57	1.01	2.34	2.83	3.77	4.31	3.55	3.48	2.66	1.12	0.60	2.23
Total	**SW**	**0.48**	**0.57**	**1.01**	**2.34**	**2.83**	**3.77**	**4.31**	**3.55**	**3.48**	**2.66**	**1.12**	**0.60**	**2.23**
Total	**GW**	**7.46**	**7.70**	**10.77**	**19.15**	**20.20**	**24.03**	**26.66**	**23.04**	**23.81**	**19.85**	**10.70**	**8.39**	**16.81**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.96	3.97	2.94	1.61	2.12	1.67	1.87	2.28	1.59	1.55	2.48	1.80	2.32
Industrial/Mining		0.35	0.33	0.35	0.41	0.39	0.46	0.42	0.46	0.42	0.32	0.42	0.28	0.38
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.31**	**4.30**	**3.30**	**2.02**	**2.51**	**2.13**	**2.29**	**2.75**	**2.00**	**1.87**	**2.90**	**2.08**	**2.70**

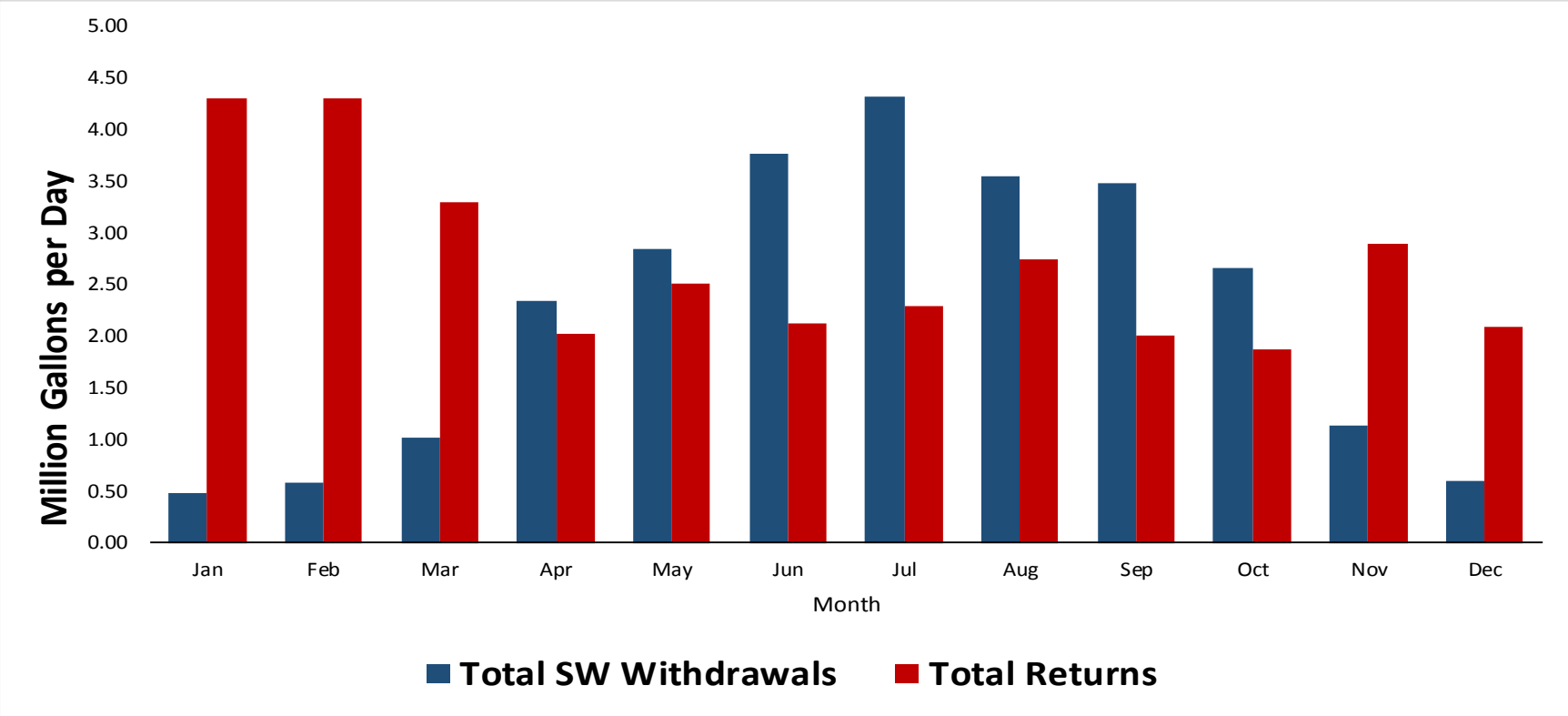
03140106-Perdido

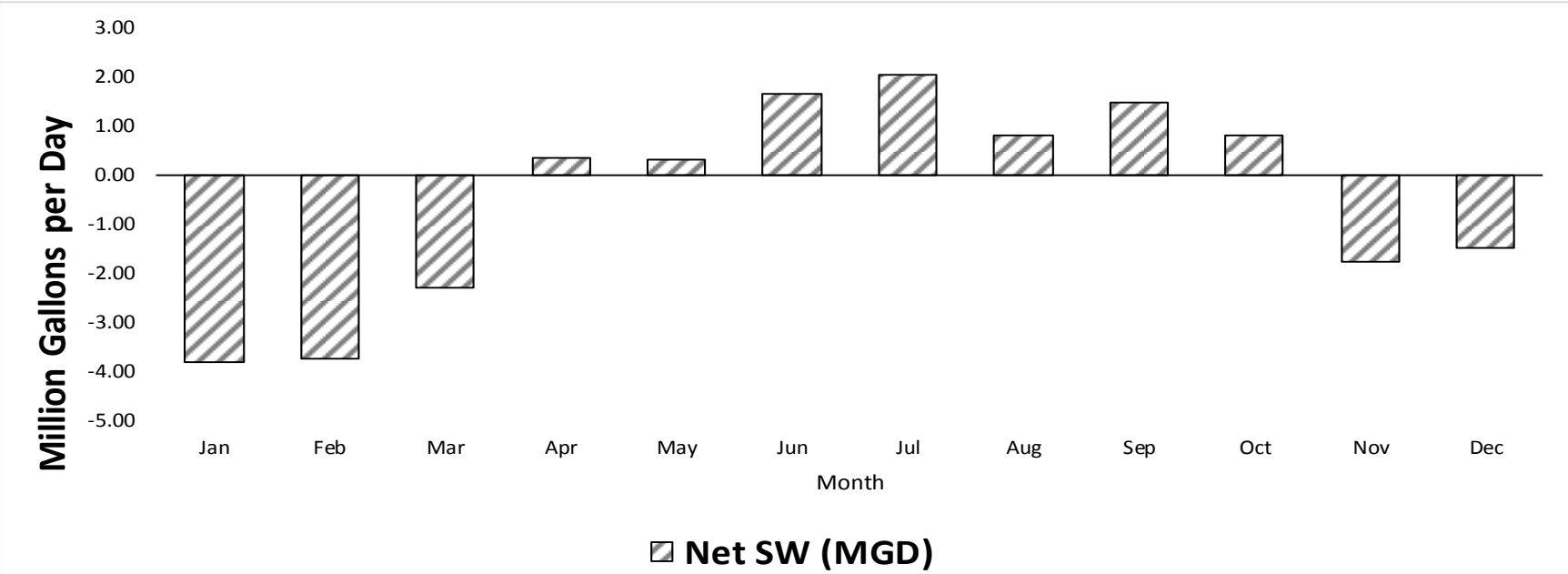
2010 FINAL DATA

Total SW Withdrawals	SW	0.48	0.57	1.01	2.34	2.83	3.77	4.31	3.55	3.48	2.66	1.12	0.60	2.23
Total GW Withdrawals	GW	7.46	7.70	10.77	19.15	20.20	24.03	26.66	23.04	23.81	19.85	10.70	8.39	16.81
Withdrawal Total		7.93	8.28	11.78	21.49	23.03	27.79	30.97	26.59	27.29	22.51	11.82	8.99	19.04
Total Returns		**4.31**	**4.30**	**3.30**	**2.02**	**2.51**	**2.13**	**2.29**	**2.75**	**2.00**	**1.87**	**2.90**	**2.08**	**2.70**
Net SW (MGD)	SW	**-3.83**	**-3.73**	**-2.29**	**0.33**	**0.33**	**1.64**	**2.03**	**0.80**	**1.48**	**0.79**	**-1.78**	**-1.48**	**-0.48**

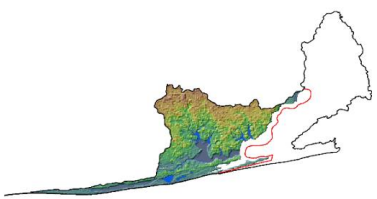
03140106-Perdido

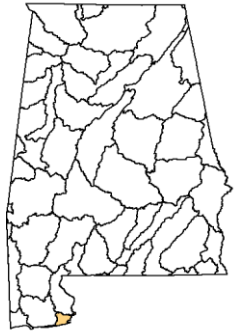
2010 FINAL DATA





03140107-Perdido Bay





Area in AL (Square Miles) 165.4

Estimated Population (2010)* 28,168

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	6.09	5.65	5.72	6.93	7.11	6.98	7.73	6.68	7.11	6.37	5.18	4.00	6.29
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.70	0.83	1.57	3.60	3.97	4.96	5.70	4.72	5.02	4.04	1.77	0.93	3.15
Agriculture	SW	0.18	0.24	0.74	1.67	1.89	2.38	2.91	2.64	2.49	1.77	0.86	0.21	1.50
Total	**SW**	**0.18**	**0.24**	**0.74**	**1.67**	**1.89**	**2.38**	**2.91**	**2.64**	**2.49**	**1.77**	**0.86**	**0.21**	**1.50**
Total	**GW**	**6.81**	**6.50**	**7.31**	**10.55**	**11.10**	**11.96**	**13.44**	**11.42**	**12.15**	**10.43**	**6.97**	**4.95**	**9.47**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		5.36	5.64	5.88	5.33	5.62	7.96	8.46	8.12	6.86	6.34	6.25	5.47	6.44
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**5.36**	**5.64**	**5.88**	**5.33**	**5.62**	**7.96**	**8.46**	**8.12**	**6.86**	**6.34**	**6.25**	**5.47**	**6.44**

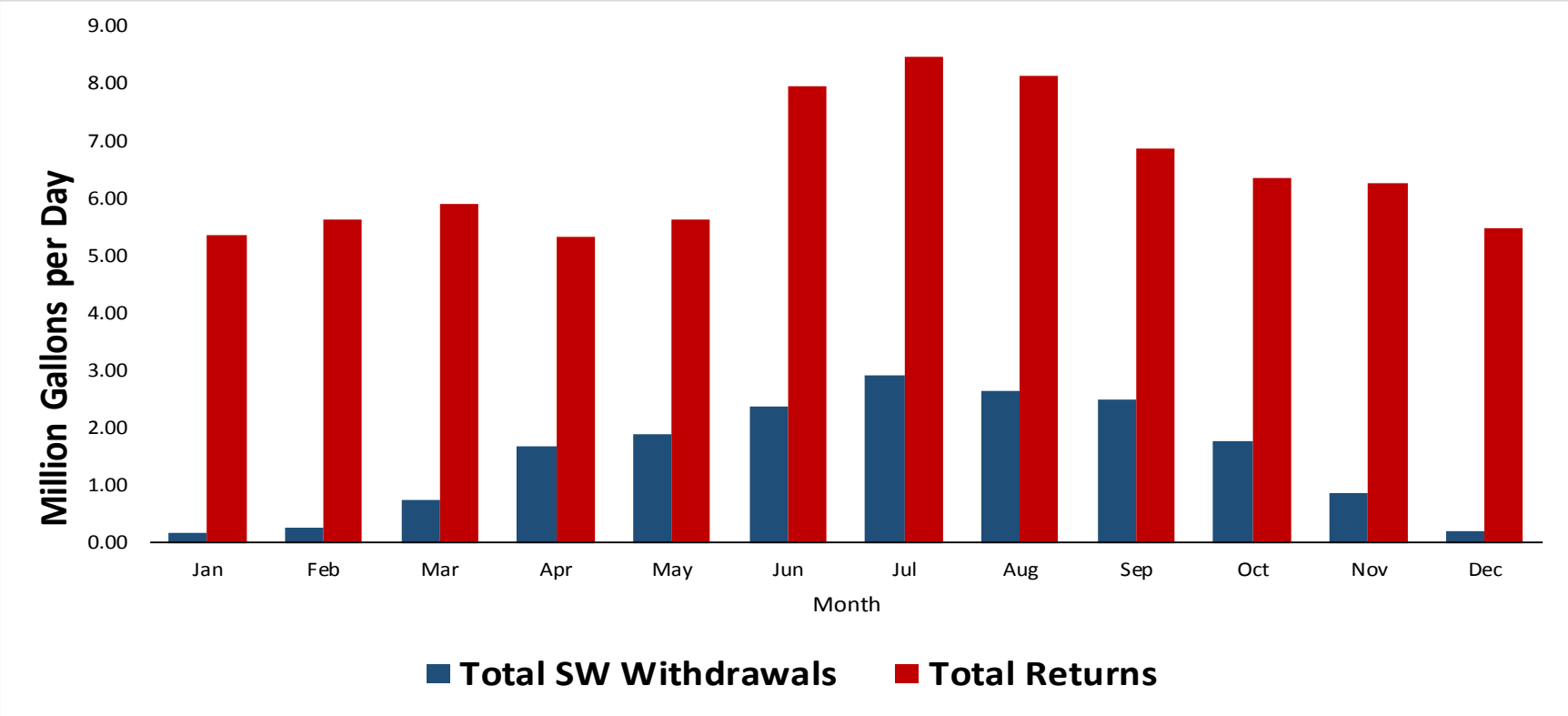
03140107-Perdido Bay

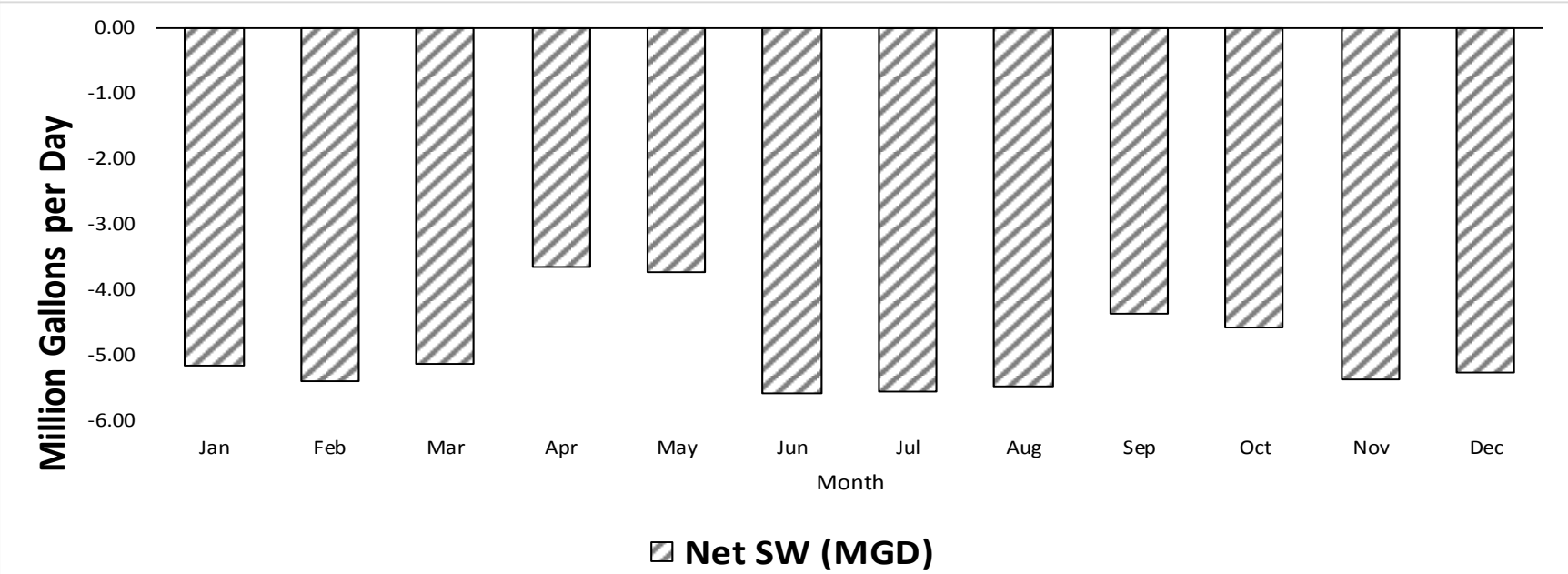
2010 FINAL DATA

Total SW Withdrawals	SW	0.18	0.24	0.74	1.67	1.89	2.38	2.91	2.64	2.49	1.77	0.86	0.21	1.50
Total GW Withdrawals	GW	6.81	6.50	7.31	10.55	11.10	11.96	13.44	11.42	12.15	10.43	6.97	4.95	9.47
Withdrawal Total		6.99	6.74	8.04	12.22	12.99	14.33	16.35	14.06	14.64	12.19	7.83	5.16	10.96
Total Returns		**5.36**	**5.64**	**5.88**	**5.33**	**5.62**	**7.96**	**8.46**	**8.12**	**6.86**	**6.34**	**6.25**	**5.47**	**6.44**
Net SW (MGD)	SW	**-5.18**	**-5.40**	**-5.15**	**-3.66**	**-3.73**	**-5.58**	**-5.55**	**-5.48**	**-4.37**	**-4.58**	**-5.39**	**-5.27**	**-4.94**

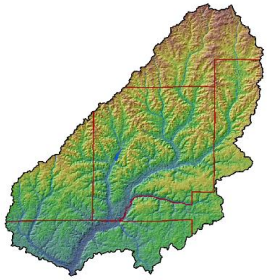
03140107-Perdido Bay

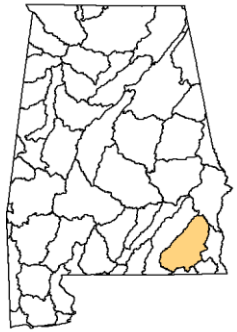
2010 FINAL DATA





03140201-Upper Choctawhatchee





Area in AL (Square Miles) 1,543.0

Estimated Population (2010)* 154,139

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	18.26	18.35	22.29	21.29	24.57	25.45	24.75	25.69	27.35	22.99	19.64	19.24	22.49
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.69	1.37	1.32	1.51	1.32	1.32	1.51	1.38	1.70	1.39	1.51	1.59	1.47
Industrial/Mining	SW	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.81	1.05	1.36	2.57	4.48	7.56	8.45	6.18	3.65	2.40	1.15	0.86	3.38
Agriculture	SW	4.62	5.05	6.11	9.20	12.32	17.32	19.36	15.95	12.40	9.36	6.07	4.71	10.21
Total	**SW**	**4.68**	**5.11**	**6.17**	**9.26**	**12.38**	**17.38**	**19.42**	**16.01**	**12.46**	**9.42**	**6.13**	**4.77**	**10.26**
Total	**GW**	**20.75**	**20.77**	**24.97**	**25.36**	**30.37**	**34.33**	**34.72**	**33.25**	**32.70**	**26.77**	**22.30**	**21.69**	**27.33**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		19.90	22.87	14.74	10.79	11.15	10.51	10.14	10.73	8.89	8.86	9.72	8.81	12.26
Industrial/Mining		2.90	3.10	2.82	3.12	4.15	4.11	4.21	4.03	3.96	3.90	4.24	3.80	3.70
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**22.80**	**25.96**	**17.56**	**13.92**	**15.30**	**14.62**	**14.35**	**14.76**	**12.85**	**12.76**	**13.96**	**12.61**	**15.95**

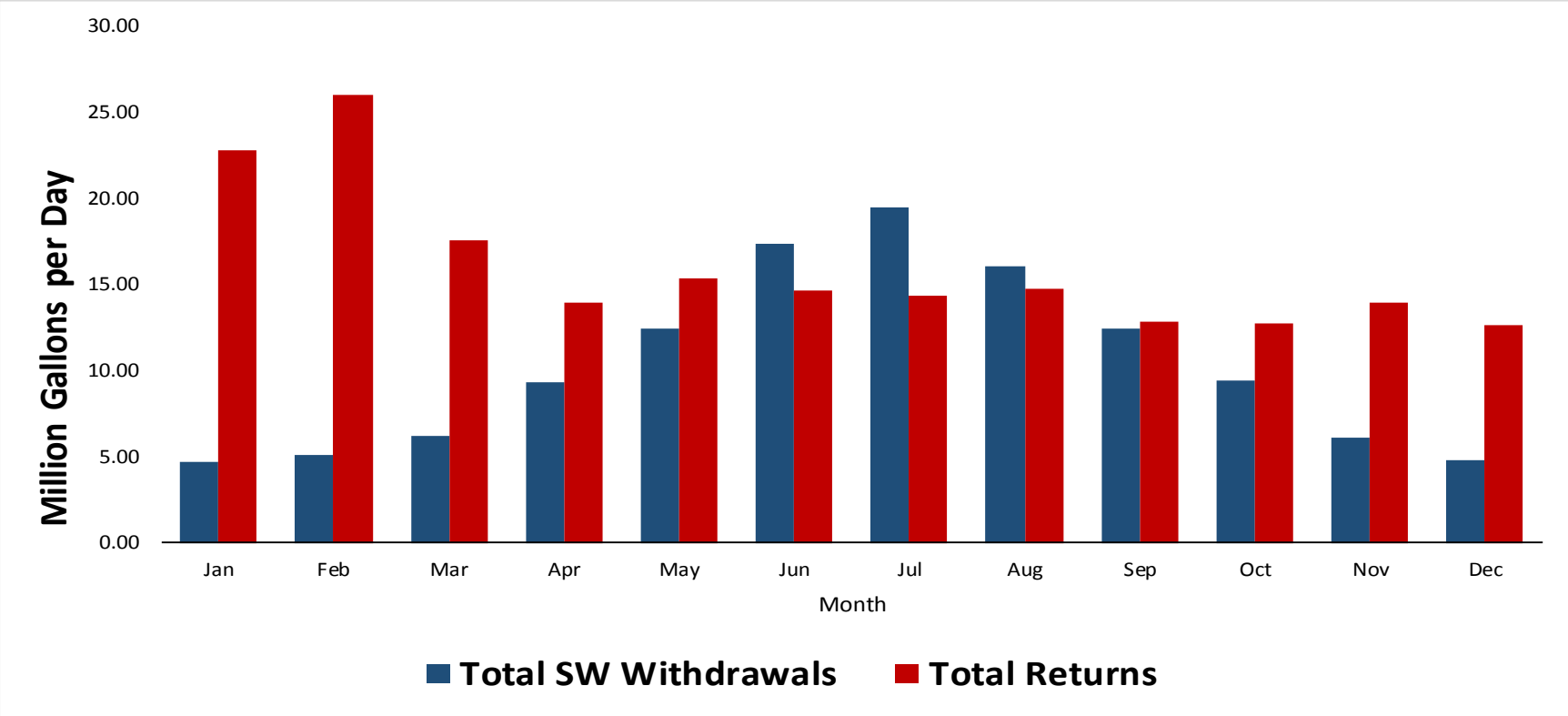
03140201-Upper Choctawhatchee

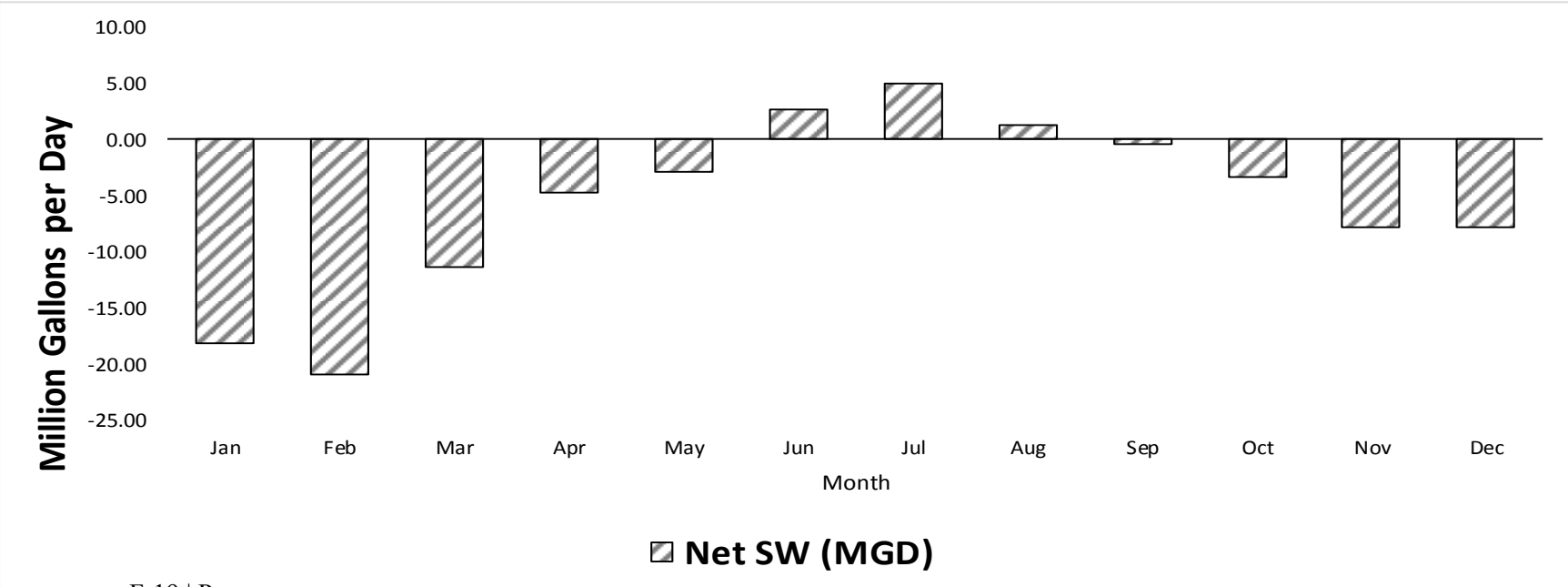
2010 FINAL DATA

Total SW Withdrawals	SW	4.68	5.11	6.17	9.26	12.38	17.38	19.42	16.01	12.46	9.42	6.13	4.77	10.26
Total GW Withdrawals	GW	20.75	20.77	24.97	25.36	30.37	34.33	34.72	33.25	32.70	26.77	22.30	21.69	27.33
Withdrawal Total		25.43	25.88	31.14	34.62	42.75	51.71	54.13	49.26	45.16	36.20	28.43	26.45	37.60
Total Returns		**22.80**	**25.96**	**17.56**	**13.92**	**15.30**	**14.62**	**14.35**	**14.76**	**12.85**	**12.76**	**13.96**	**12.61**	**15.95**
Net SW (MGD)	SW	**-18.12**	**-20.86**	**-11.38**	**-4.66**	**-2.92**	**2.76**	**5.06**	**1.25**	**-0.39**	**-3.33**	**-7.84**	**-7.84**	**-5.69**

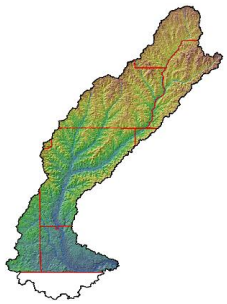
03140201-Upper Choctawhatchee

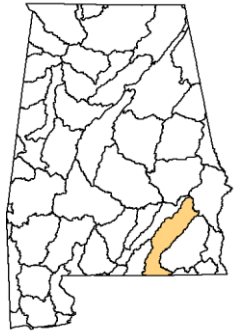
2010 FINAL DATA





03140202-Pea





Area in AL (Square Miles) 1,444.7

Estimated Population (2010)* 51,243

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	7.36	7.05	6.99	7.68	8.08	7.92	8.20	8.52	8.73	7.82	7.10	7.07	7.71
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.99	1.18	1.23	1.22	1.13	1.24	1.21	1.29	1.25	1.21	1.30	1.15	1.20
Industrial/Mining	SW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.75	0.86	1.11	1.92	2.67	3.96	4.41	3.42	2.57	1.94	1.07	0.82	2.12
Agriculture	SW	1.10	1.34	1.76	3.30	5.14	8.11	9.09	6.91	4.78	3.34	1.64	1.18	3.97
Total	**SW**	**1.13**	**1.37**	**1.78**	**3.33**	**5.17**	**8.14**	**9.12**	**6.94**	**4.81**	**3.37**	**1.66**	**1.21**	**4.00**
Total	**GW**	**9.10**	**9.10**	**9.33**	**10.82**	**11.88**	**13.12**	**13.82**	**13.24**	**12.54**	**10.97**	**9.48**	**9.03**	**11.03**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		7.48	6.81	6.84	6.00	5.46	5.39	5.16	5.74	5.24	5.25	5.23	5.44	5.84
Industrial/Mining		1.00	1.06	0.95	0.96	0.95	0.97	0.78	1.00	0.74	1.13	0.91	1.07	0.96
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**8.48**	**7.87**	**7.79**	**6.96**	**6.41**	**6.36**	**5.94**	**6.74**	**5.98**	**6.38**	**6.14**	**6.51**	**6.80**

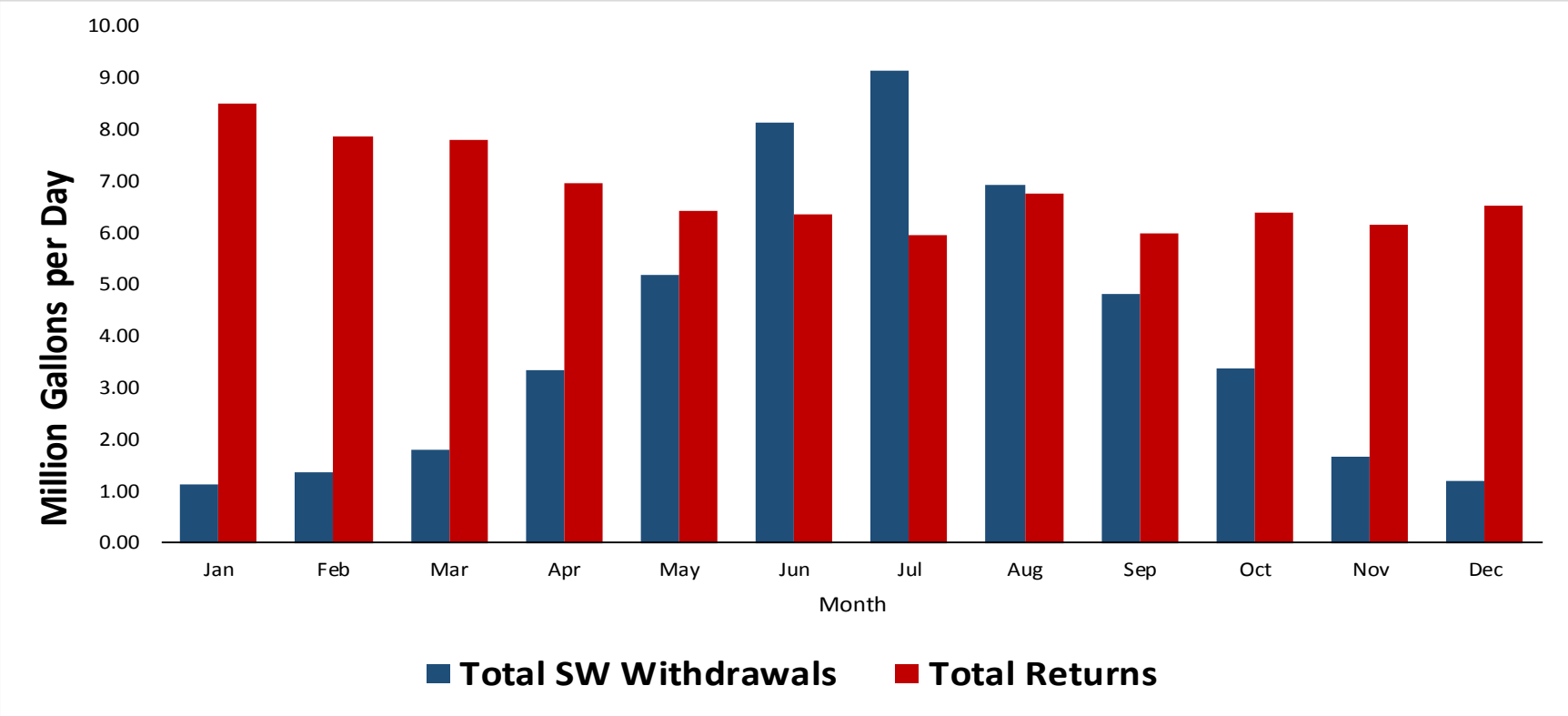
03140202-Pea

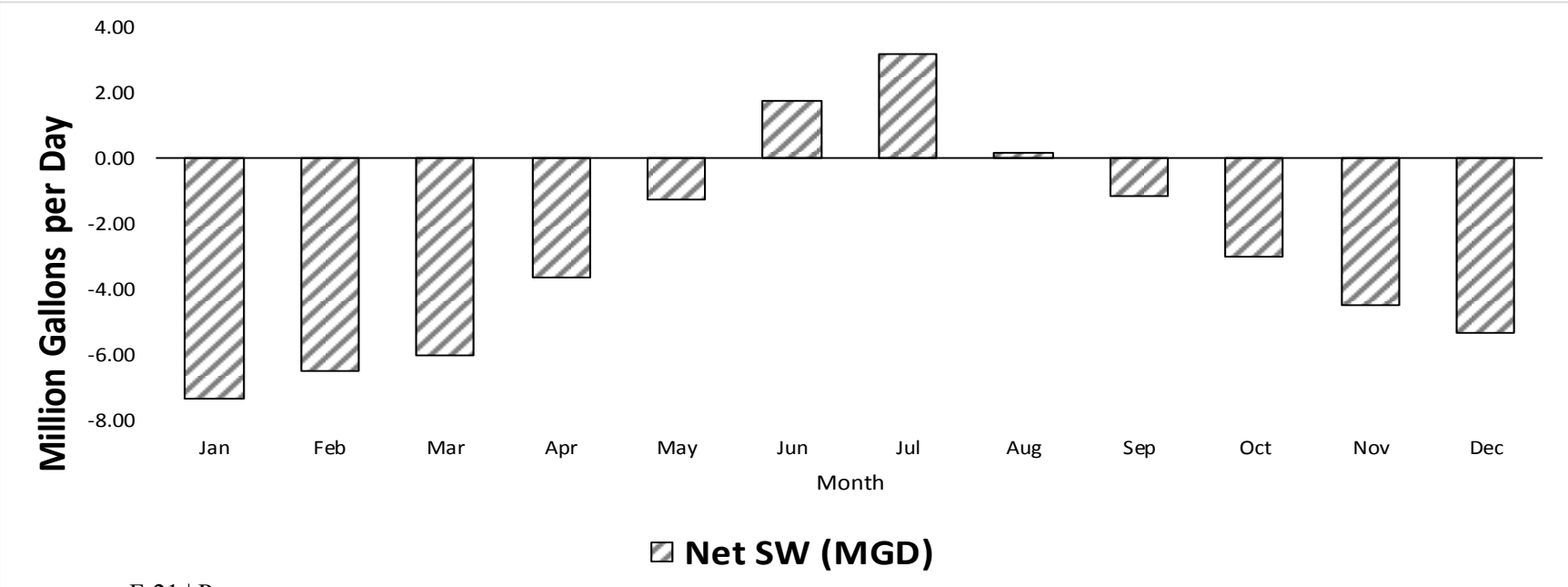
2010 FINAL DATA

Total SW Withdrawals	SW	1.13	1.37	1.78	3.33	5.17	8.14	9.12	6.94	4.81	3.37	1.66	1.21	4.00
Total GW Withdrawals	GW	9.10	9.10	9.33	10.82	11.88	13.12	13.82	13.24	12.54	10.97	9.48	9.03	11.03
Withdrawal Total		10.22	10.46	11.11	14.15	17.05	21.26	22.94	20.18	17.35	14.34	11.14	10.24	15.04
Total Returns		**8.48**	**7.87**	**7.79**	**6.96**	**6.41**	**6.36**	**5.94**	**6.74**	**5.98**	**6.38**	**6.14**	**6.51**	**6.80**
Net SW (MGD)	SW	**-7.36**	**-6.51**	**-6.01**	**-3.63**	**-1.24**	**1.78**	**3.18**	**0.20**	**-1.17**	**-3.01**	**-4.48**	**-5.30**	**-2.80**

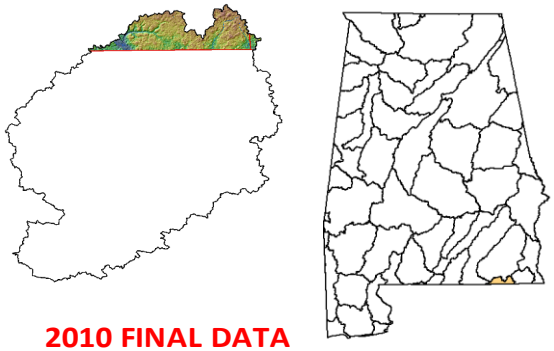
03140202-Pea

2010 FINAL DATA





03140203-Lower Choctawhatchee



Area in AL (Square Miles)	134.7
Estimated Population (2010)*	7,253

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.73	0.64	0.67	0.72	0.80	0.89	0.85	0.81	0.84	0.70	0.70	0.70	0.75
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.13	0.16	0.21	0.39	0.56	0.84	0.94	0.72	0.54	0.40	0.20	0.14	0.44
Agriculture	SW	0.15	0.18	0.23	0.42	0.59	0.89	1.00	0.77	0.57	0.42	0.22	0.17	0.47
Total	**SW**	**0.16**	**0.18**	**0.24**	**0.43**	**0.60**	**0.90**	**1.00**	**0.77**	**0.58**	**0.43**	**0.23**	**0.17**	**0.47**
Total	**GW**	**0.87**	**0.81**	**0.89**	**1.13**	**1.37**	**1.75**	**1.81**	**1.55**	**1.40**	**1.12**	**0.92**	**0.86**	**1.21**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

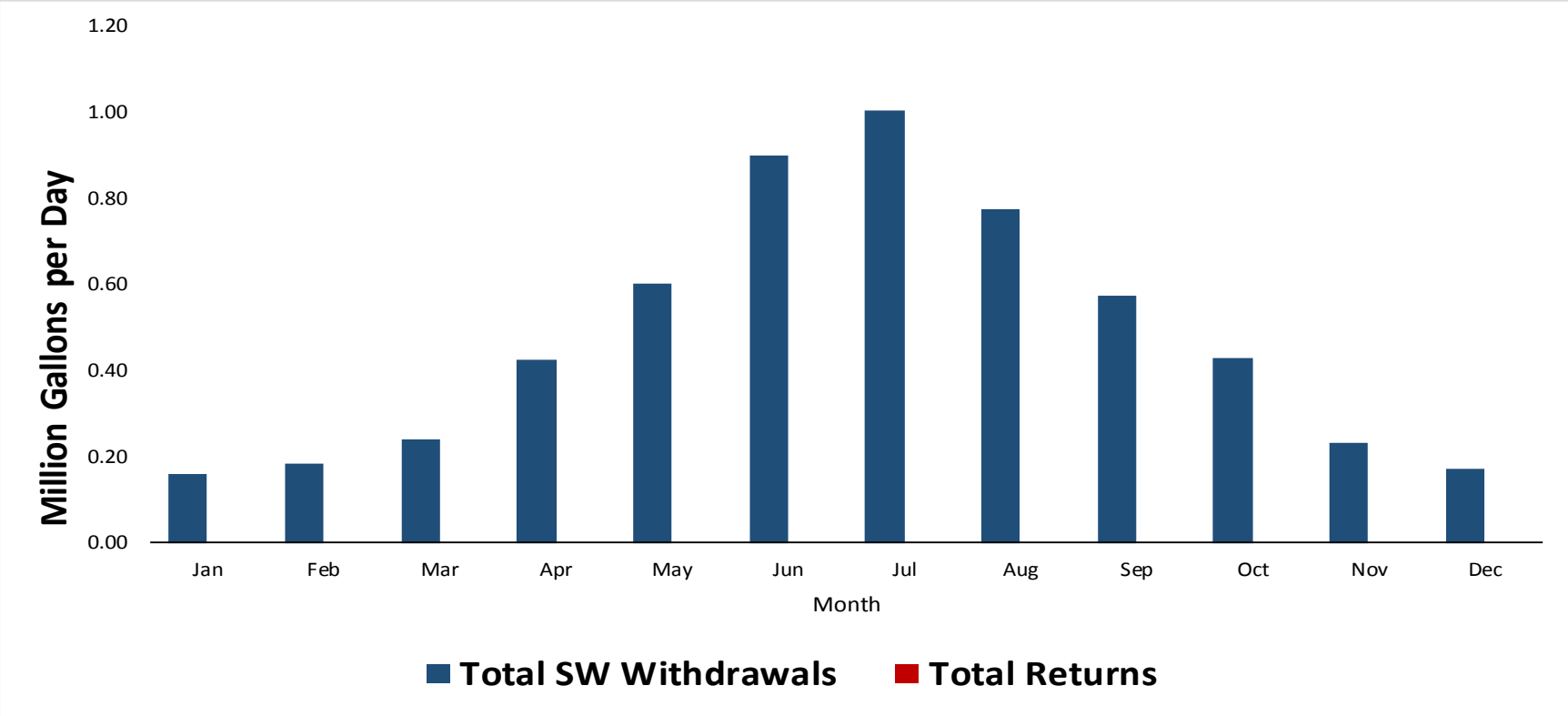
03140203-Lower Choctawhatchee

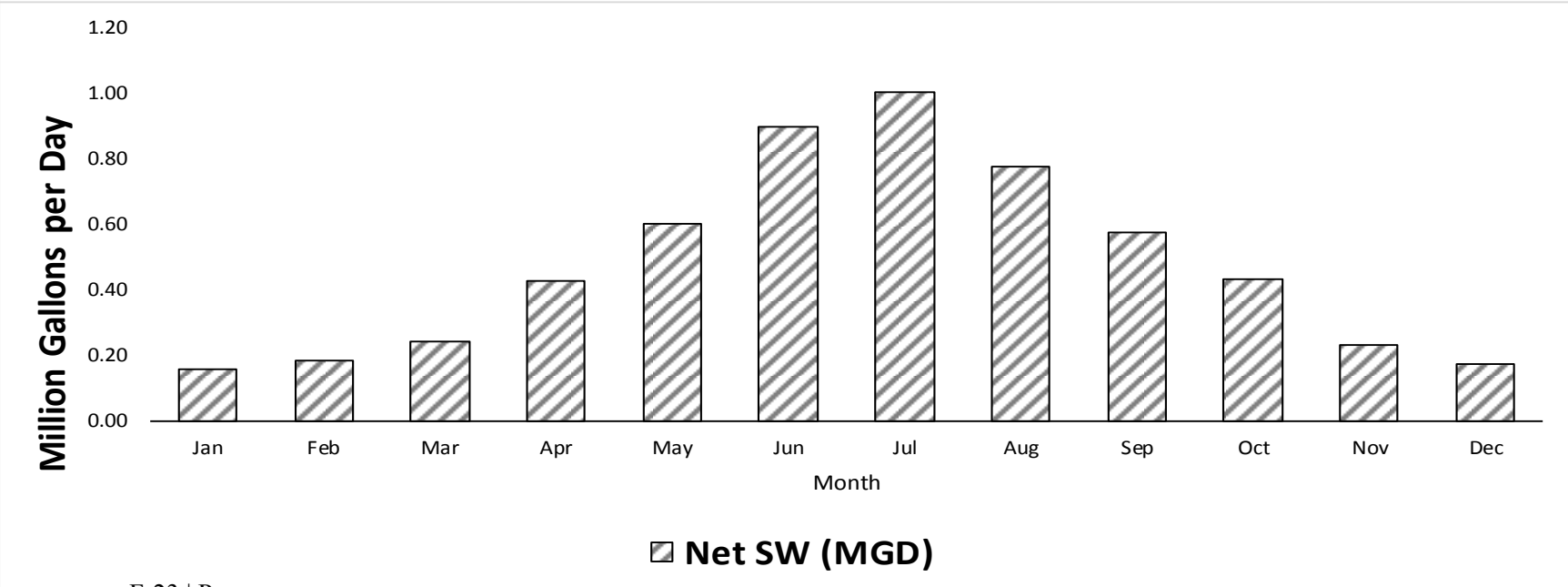
2010 FINAL DATA

Total SW Withdrawals	SW	0.16	0.18	0.24	0.43	0.60	0.90	1.00	0.77	0.58	0.43	0.23	0.17	0.47
Total GW Withdrawals	GW	0.87	0.81	0.89	1.13	1.37	1.75	1.81	1.55	1.40	1.12	0.92	0.86	1.21
Withdrawal Total		1.03	1.00	1.13	1.55	1.97	2.64	2.81	2.32	1.97	1.55	1.15	1.04	1.68
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.16**	**0.18**	**0.24**	**0.43**	**0.60**	**0.90**	**1.00**	**0.77**	**0.58**	**0.43**	**0.23**	**0.17**	**0.47**

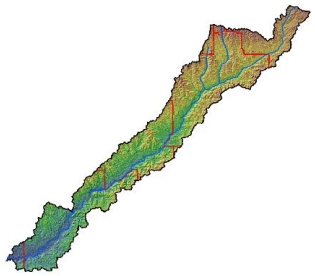
03140203-Lower Choctawhatchee

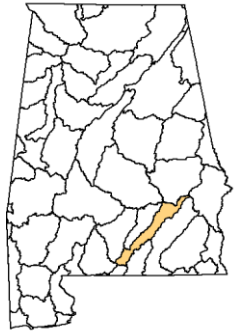
2010 FINAL DATA





03140301-Upper Conecuh





Area in AL (Square Miles) 822.0

Estimated Population (2010)* 28,155

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	8.76	7.06	6.99	7.43	7.78	8.24	8.23	8.10	8.45	8.62	6.80	6.87	7.78
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Industrial/Mining	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Thermoelectric	SW	1.51	1.45	1.00	1.24	1.74	2.48	2.46	2.54	1.39	1.65	1.44	1.89	1.73
Agriculture	GW	0.38	0.42	0.57	1.00	1.24	1.69	1.88	1.52	1.32	1.05	0.58	0.42	1.01
Agriculture	SW	0.54	0.62	0.84	1.65	2.25	3.19	3.60	2.94	2.53	1.85	0.88	0.59	1.79
Total	**SW**	**2.06**	**2.09**	**1.86**	**2.91**	**4.00**	**5.68**	**6.07**	**5.49**	**3.93**	**3.51**	**2.33**	**2.49**	**3.53**
Total	**GW**	**9.17**	**7.52**	**7.59**	**8.47**	**9.05**	**9.96**	**10.15**	**9.65**	**9.81**	**9.71**	**7.42**	**7.33**	**8.82**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		3.58	3.57	2.99	1.83	1.83	1.46	1.34	1.51	1.27	1.12	1.21	1.65	1.94
Industrial/Mining		0.03	0.02	0.03	0.02	0.01	0.02	0.03	0.01	0.01	0.01	0.02	0.02	0.02
Thermoelectric		0.08	0.10	0.09	0.09	0.08	0.17	0.17	0.27	0.16	0.24	0.23	0.21	0.16
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**3.69**	**3.70**	**3.10**	**1.93**	**1.91**	**1.64**	**1.53**	**1.78**	**1.44**	**1.38**	**1.45**	**1.88**	**2.12**

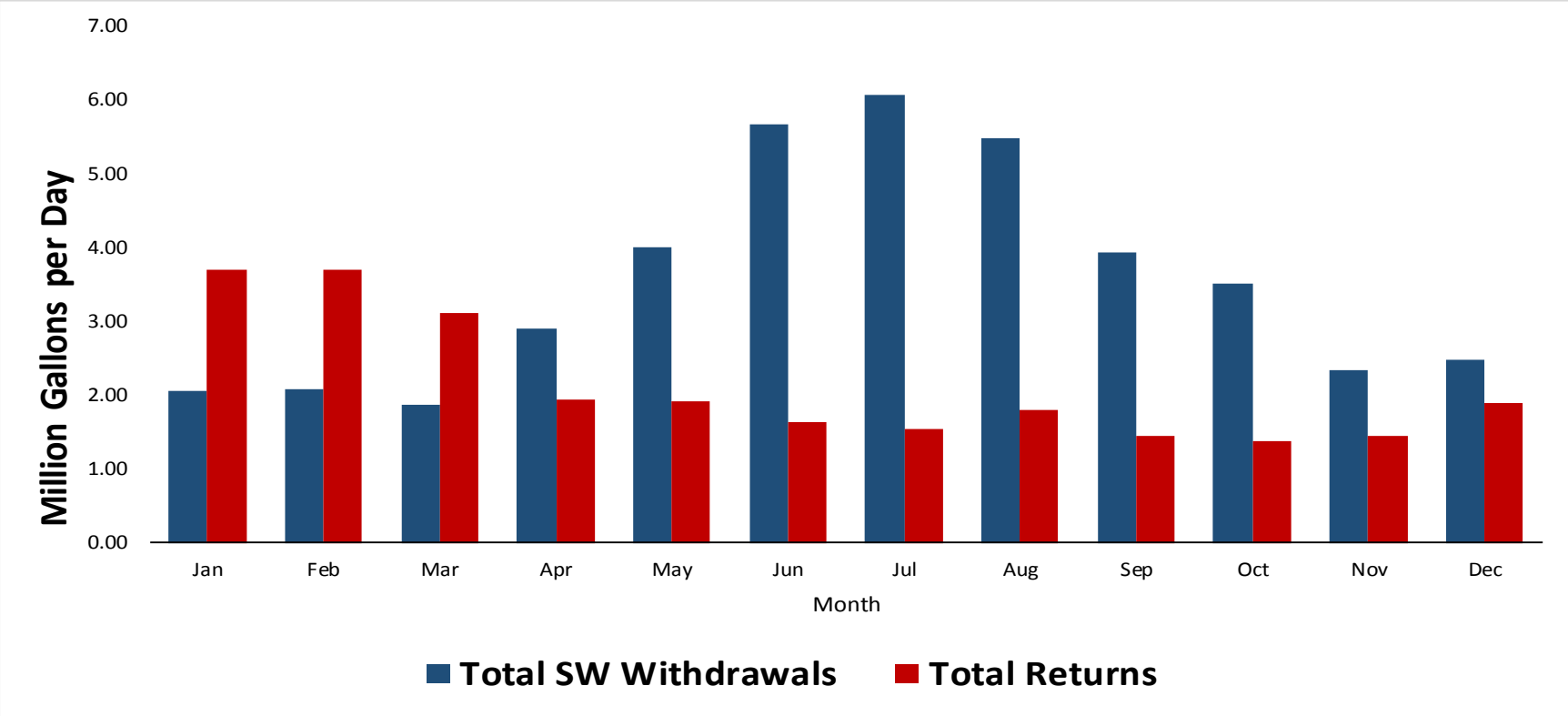
03140301-Upper Conecuh

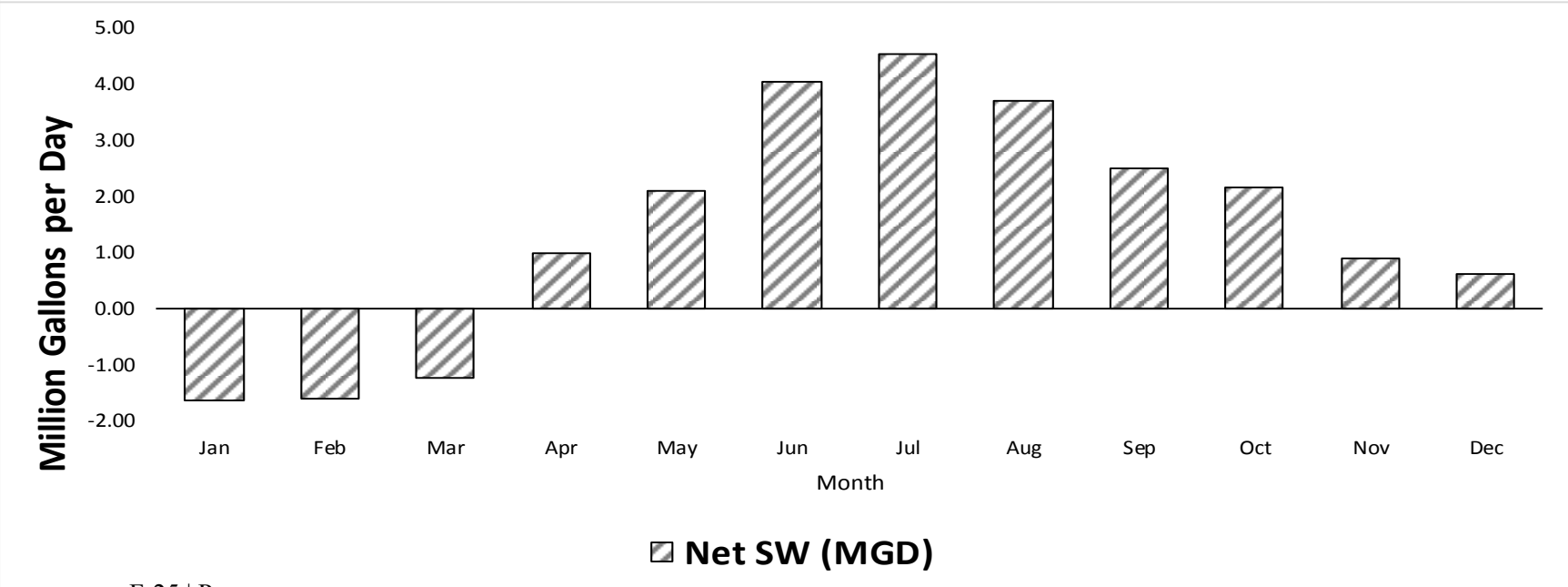
2010 FINAL DATA

Total SW Withdrawals	SW	2.06	2.09	1.86	2.91	4.00	5.68	6.07	5.49	3.93	3.51	2.33	2.49	3.53
Total GW Withdrawals	GW	9.17	7.52	7.59	8.47	9.05	9.96	10.15	9.65	9.81	9.71	7.42	7.33	8.82
Withdrawal Total		11.23	9.61	9.45	11.37	13.05	15.64	16.22	15.14	13.73	13.22	9.75	9.81	12.35
Total Returns		**3.69**	**3.70**	**3.10**	**1.93**	**1.91**	**1.64**	**1.53**	**1.78**	**1.44**	**1.38**	**1.45**	**1.88**	**2.12**
Net SW (MGD)	SW	**-1.63**	**-1.61**	**-1.24**	**0.97**	**2.09**	**4.04**	**4.53**	**3.71**	**2.49**	**2.14**	**0.88**	**0.61**	**1.41**

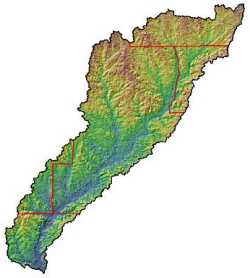
03140301-Upper Conecuh

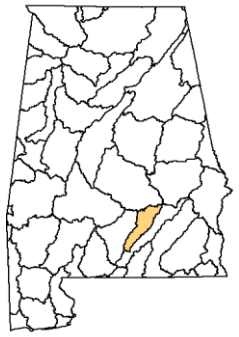
2010 FINAL DATA





03140302-Patsaliga





Area in AL (Square Miles) 600.0

Estimated Population (2010)* 12,811

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	1.70	1.55	1.41	1.65	1.77	1.90	1.88	1.62	1.66	1.42	1.37	1.37	1.61
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Industrial/Mining	SW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.29	0.30	0.37	0.55	0.59	0.70	0.76	0.66	0.67	0.58	0.38	0.31	0.51
Agriculture	SW	0.36	0.39	0.43	0.58	0.80	1.16	1.26	1.00	0.71	0.56	0.41	0.37	0.67
Total	**SW**	**0.41**	**0.44**	**0.48**	**0.63**	**0.85**	**1.21**	**1.31**	**1.05**	**0.76**	**0.61**	**0.46**	**0.42**	**0.72**
Total	**GW**	**2.10**	**1.96**	**1.88**	**2.30**	**2.47**	**2.70**	**2.75**	**2.39**	**2.44**	**2.11**	**1.86**	**1.79**	**2.23**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.67	0.76	0.71	0.42	0.34	0.31	0.26	0.26	0.27	0.35	0.28	0.32	0.41
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.67**	**0.76**	**0.71**	**0.42**	**0.34**	**0.31**	**0.26**	**0.26**	**0.27**	**0.35**	**0.28**	**0.32**	**0.41**

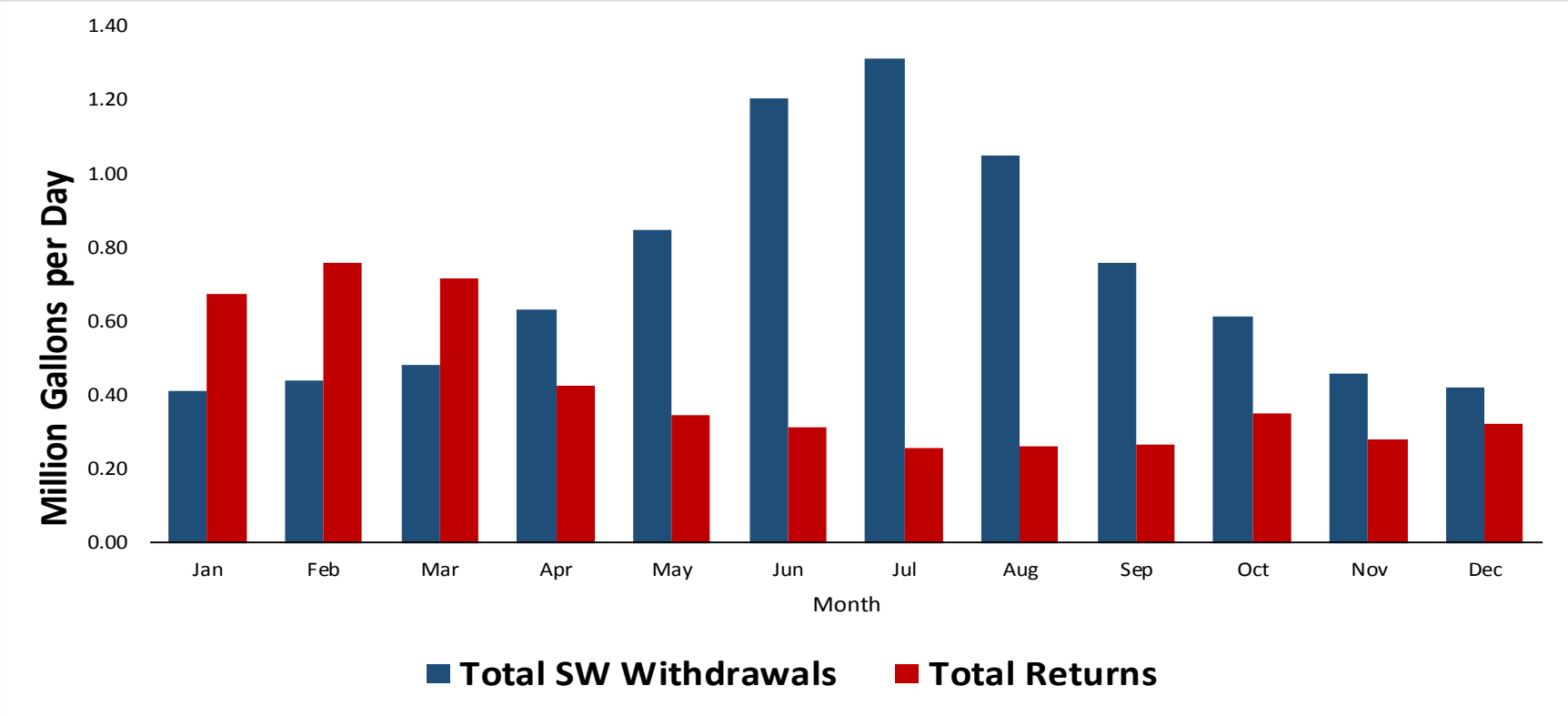
03140302-Patsaliga

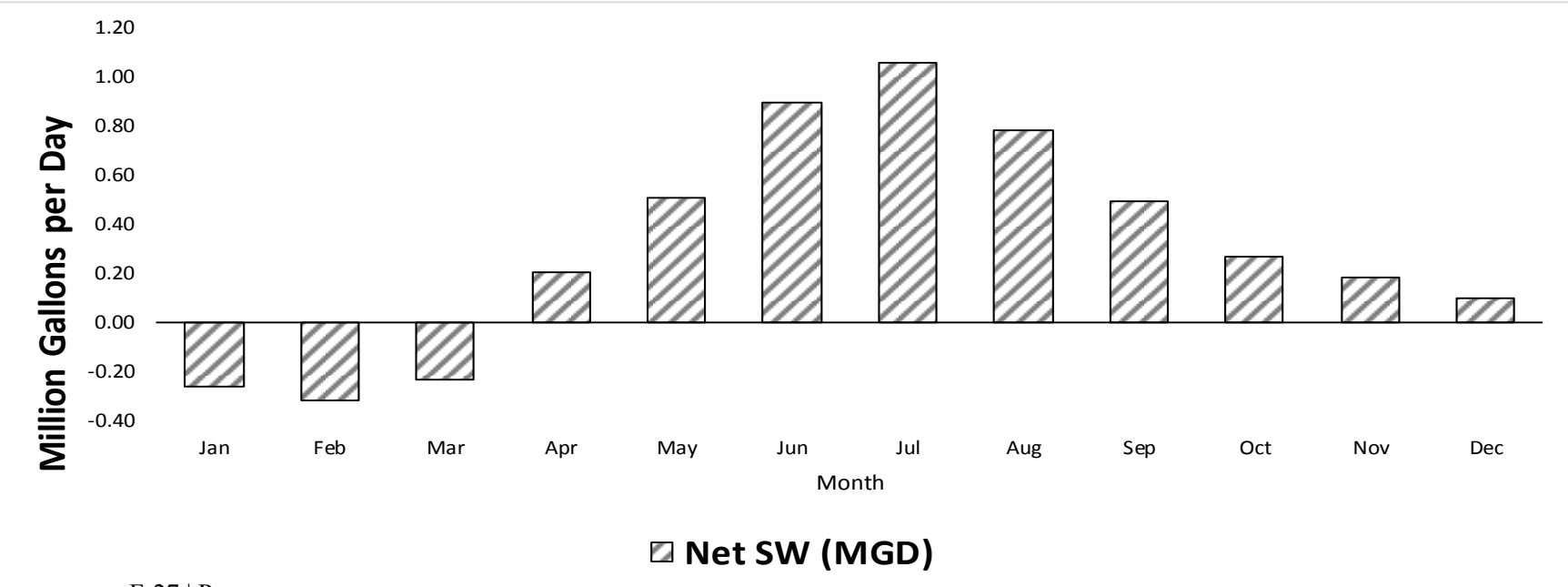
2010 FINAL DATA

Total SW Withdrawals	SW	0.41	0.44	0.48	0.63	0.85	1.21	1.31	1.05	0.76	0.61	0.46	0.42	0.72
Total GW Withdrawals	GW	2.10	1.96	1.88	2.30	2.47	2.70	2.75	2.39	2.44	2.11	1.86	1.79	2.23
Withdrawal Total		2.51	2.40	2.36	2.93	3.32	3.91	4.06	3.44	3.20	2.72	2.32	2.21	2.95
Total Returns		**0.67**	**0.76**	**0.71**	**0.42**	**0.34**	**0.31**	**0.26**	**0.26**	**0.27**	**0.35**	**0.28**	**0.32**	**0.41**
Net SW (MGD)	SW	**-0.26**	**-0.32**	**-0.23**	**0.21**	**0.51**	**0.89**	**1.06**	**0.79**	**0.49**	**0.26**	**0.18**	**0.10**	**0.31**

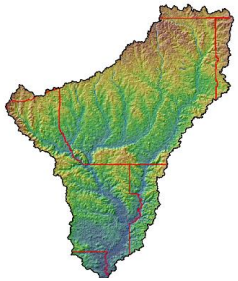
03140302-Patsaliga

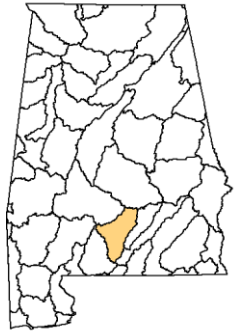
2010 FINAL DATA





03140303-Sepulga





Area in AL (Square Miles) 1,049.0

Estimated Population (2010)* 26,417

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	3.73	3.31	3.26	3.26	3.37	3.59	3.63	3.39	3.18	3.17	3.15	3.23	3.36
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.26	0.28	0.30	0.31	0.31	0.28	0.39	0.33	0.36	0.34	0.40	0.37	0.33
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.20	0.22	0.24	0.32	0.39	0.50	0.55	0.46	0.39	0.33	0.24	0.21	0.34
Agriculture	SW	0.90	0.97	1.53	2.48	2.71	3.21	3.80	3.58	3.35	2.54	1.66	0.91	2.30
Total	**SW**	**0.90**	**0.97**	**1.53**	**2.49**	**2.71**	**3.21**	**3.80**	**3.59**	**3.35**	**2.54**	**1.67**	**0.91**	**2.31**
Total	**GW**	**4.19**	**3.80**	**3.80**	**3.90**	**4.06**	**4.37**	**4.57**	**4.18**	**3.93**	**3.83**	**3.80**	**3.81**	**4.02**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		3.26	3.40	3.00	2.12	1.90	1.80	1.47	1.37	1.21	1.17	1.21	1.15	1.92
Industrial/Mining		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**3.30**	**3.44**	**3.04**	**2.16**	**1.94**	**1.84**	**1.51**	**1.41**	**1.25**	**1.21**	**1.25**	**1.19**	**1.96**

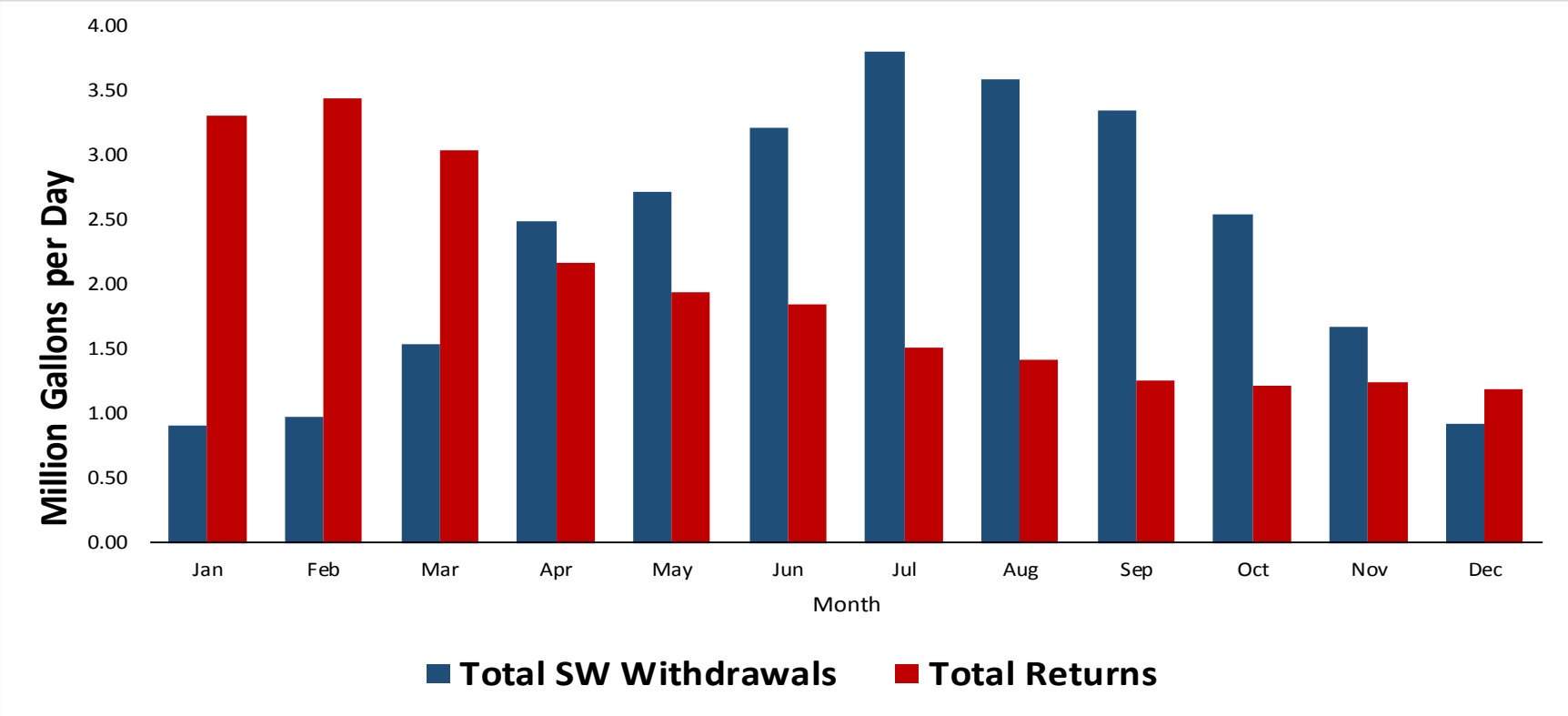
03140303-Sepulga

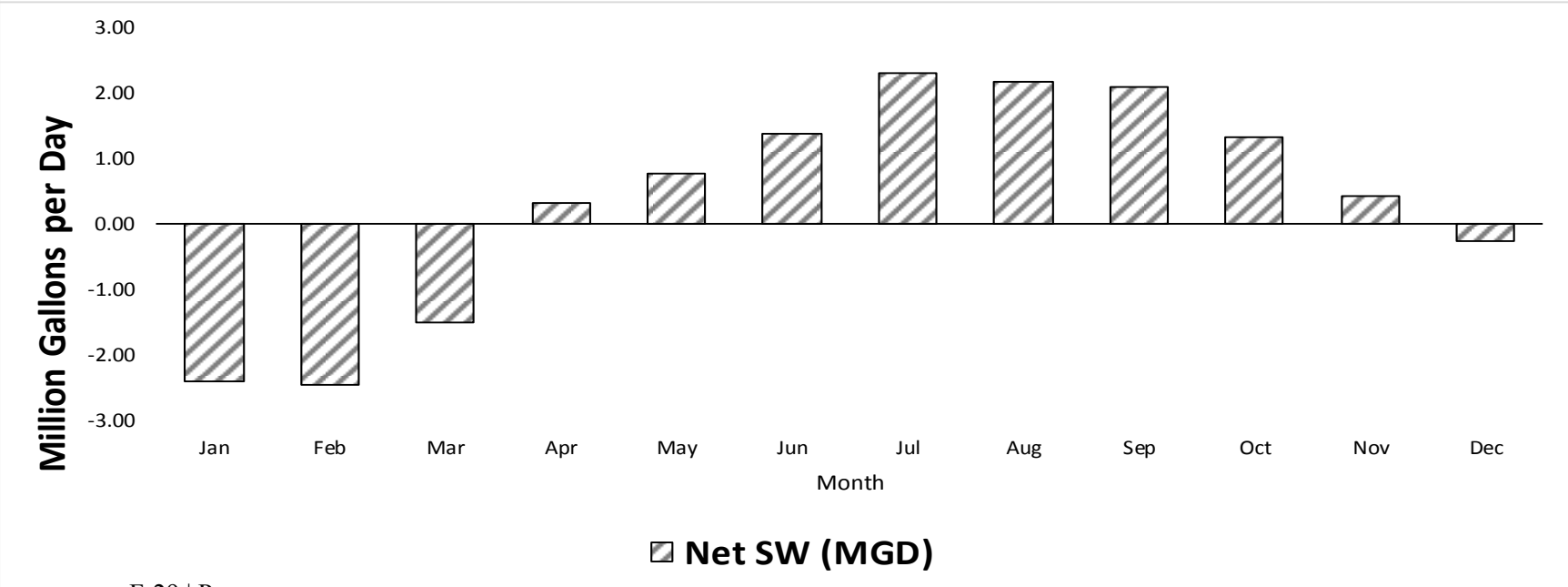
2010 FINAL DATA

Total SW Withdrawals	SW	0.90	0.97	1.53	2.49	2.71	3.21	3.80	3.59	3.35	2.54	1.67	0.91	2.31
Total GW Withdrawals	GW	4.19	3.80	3.80	3.90	4.06	4.37	4.57	4.18	3.93	3.83	3.80	3.81	4.02
Withdrawal Total		5.09	4.77	5.33	6.38	6.77	7.58	8.38	7.76	7.28	6.37	5.46	4.73	6.33
Total Returns		**3.30**	**3.44**	**3.04**	**2.16**	**1.94**	**1.84**	**1.51**	**1.41**	**1.25**	**1.21**	**1.25**	**1.19**	**1.96**
Net SW (MGD)	SW	**-2.40**	**-2.47**	**-1.51**	**0.33**	**0.77**	**1.37**	**2.29**	**2.18**	**2.10**	**1.33**	**0.42**	**-0.27**	**0.35**

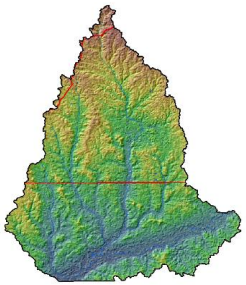
03140303-Sepulga

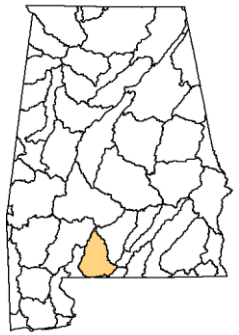
2010 FINAL DATA





03140304-Lower Conecuh





Area in AL (Square Miles) 999.7

Estimated Population (2010)* 25,219

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Choctawhatchee-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	4.67	3.72	3.73	4.10	4.20	4.64	5.44	4.39	4.48	4.60	3.74	3.99	4.31
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.76	1.56	1.56	1.56	1.56	1.56	1.69	1.57	1.58	1.65	1.61	1.58	1.61
Industrial/Mining	SW	32.40	27.10	34.60	34.50	35.00	35.80	35.70	35.60	33.00	33.10	33.50	33.00	33.61
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.15	0.20	0.30	0.62	0.99	1.60	1.80	1.34	0.89	0.61	0.27	0.18	0.75
Agriculture	SW	0.29	0.31	0.38	0.65	0.87	1.18	1.33	1.13	1.03	0.76	0.40	0.30	0.72
Total	**SW**	**32.69**	**27.41**	**34.98**	**35.15**	**35.87**	**36.98**	**37.03**	**36.73**	**34.03**	**33.86**	**33.90**	**33.30**	**34.33**
Total	**GW**	**6.59**	**5.49**	**5.60**	**6.29**	**6.75**	**7.81**	**8.94**	**7.29**	**6.95**	**6.87**	**5.62**	**5.74**	**6.66**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		3.39	4.12	2.96	1.49	3.07	1.47	1.73	3.43	1.11	1.39	2.26	1.50	2.33
Industrial/Mining		26.15	21.16	21.94	37.38	38.71	36.96	35.40	39.00	30.41	30.10	35.74	37.21	32.51
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**29.53**	**25.27**	**24.90**	**38.87**	**41.78**	**38.42**	**37.13**	**42.43**	**31.52**	**31.49**	**38.01**	**38.71**	**34.84**

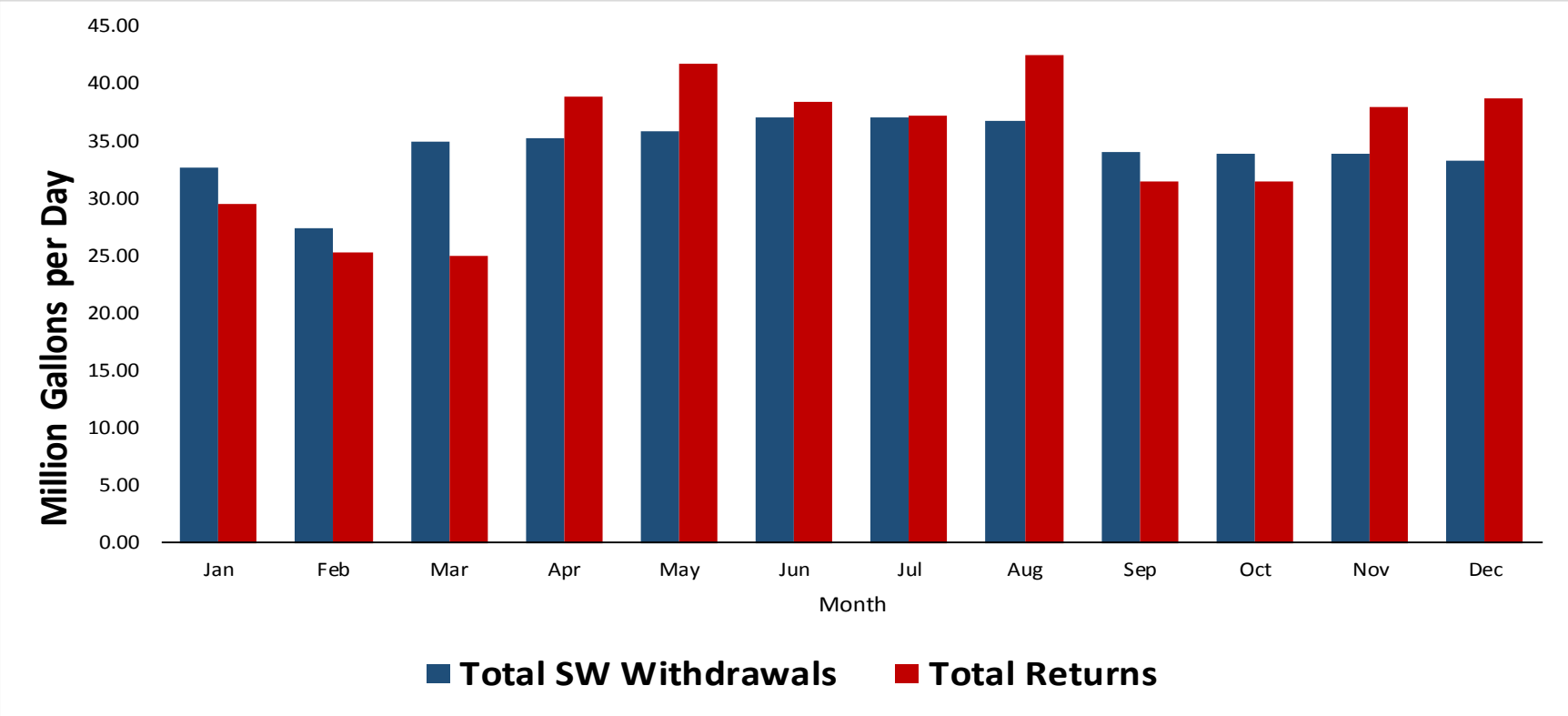
03140304-Lower Conecuh

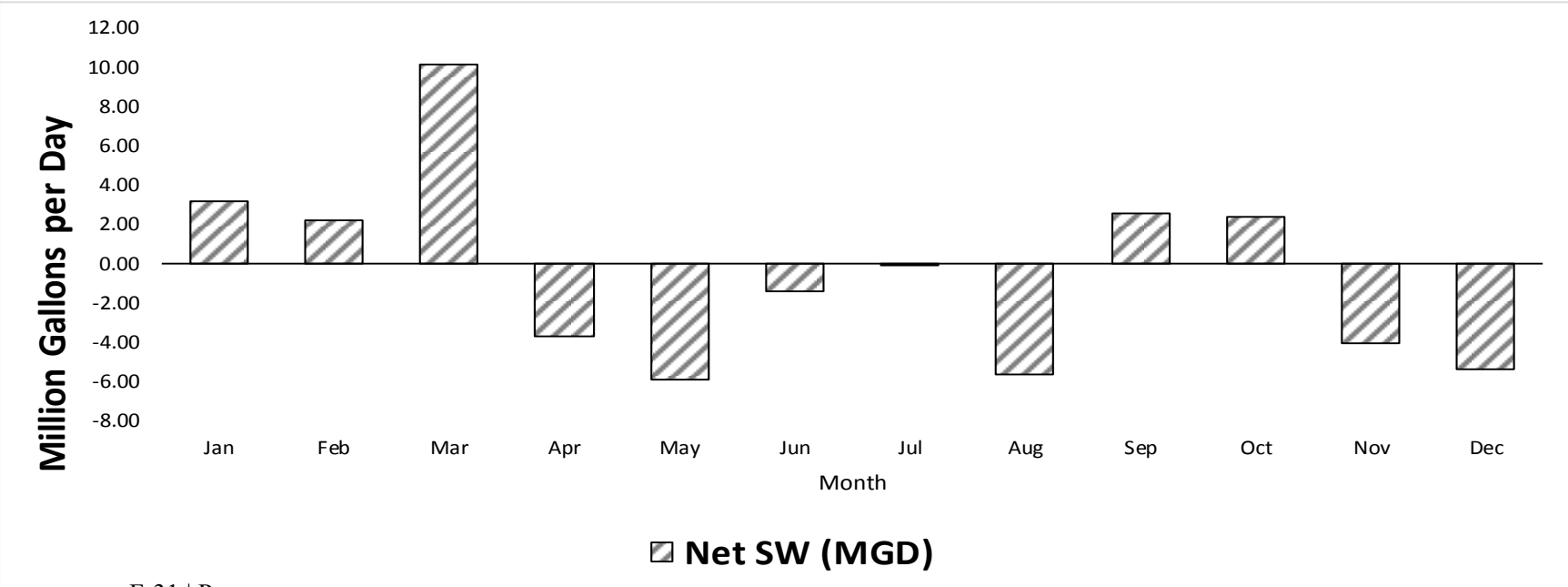
2010 FINAL DATA

Total SW Withdrawals	SW	32.69	27.41	34.98	35.15	35.87	36.98	37.03	36.73	34.03	33.86	33.90	33.30	34.33
Total GW Withdrawals	GW	6.59	5.49	5.60	6.29	6.75	7.81	8.94	7.29	6.95	6.87	5.62	5.74	6.66
Withdrawal Total		39.28	32.91	40.57	41.44	42.63	44.79	45.96	44.03	40.98	40.73	39.52	39.04	40.99
Total Returns		**29.53**	**25.27**	**24.90**	**38.87**	**41.78**	**38.42**	**37.13**	**42.43**	**31.52**	**31.49**	**38.01**	**38.71**	**34.84**
Net SW (MGD)	SW	**3.16**	**2.14**	**10.08**	**-3.72**	**-5.90**	**-1.44**	**-0.11**	**-5.69**	**2.51**	**2.37**	**-4.10**	**-5.41**	**-0.51**

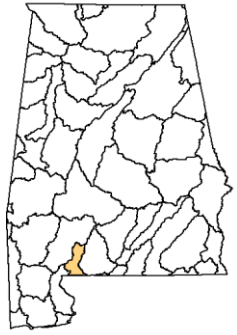
03140304-Lower Conecuh

2010 FINAL DATA





03140305-Escambia



Area in AL (Square Miles) 365.8

Estimated Population (2010)* 18,345

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Perdido-Escambia

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	2.66	2.31	2.31	2.35	3.27	2.67	2.66	2.39	2.42	2.40	2.25	2.08	2.48
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.06	0.08	0.12	0.27	0.45	0.73	0.83	0.61	0.39	0.26	0.11	0.07	0.33
Agriculture	SW	0.05	0.06	0.09	0.22	0.33	0.47	0.54	0.45	0.41	0.28	0.11	0.06	0.25
Total	**SW**	**0.05**	**0.06**	**0.09**	**0.22**	**0.33**	**0.47**	**0.54**	**0.45**	**0.41**	**0.28**	**0.11**	**0.06**	**0.25**
Total	**GW**	**2.84**	**2.51**	**2.55**	**2.74**	**3.83**	**3.52**	**3.61**	**3.12**	**2.93**	**2.78**	**2.47**	**2.27**	**2.93**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		4.74	5.26	4.03	2.63	3.10	2.13	2.20	2.13	1.87	2.04	2.34	2.60	2.92
Industrial/Mining		0.09	0.11	0.10	0.11	0.10	0.09	0.09	0.10	0.12	0.12	0.09	0.12	0.10
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.83**	**5.36**	**4.13**	**2.73**	**3.19**	**2.22**	**2.28**	**2.23**	**1.99**	**2.15**	**2.43**	**2.73**	**3.02**

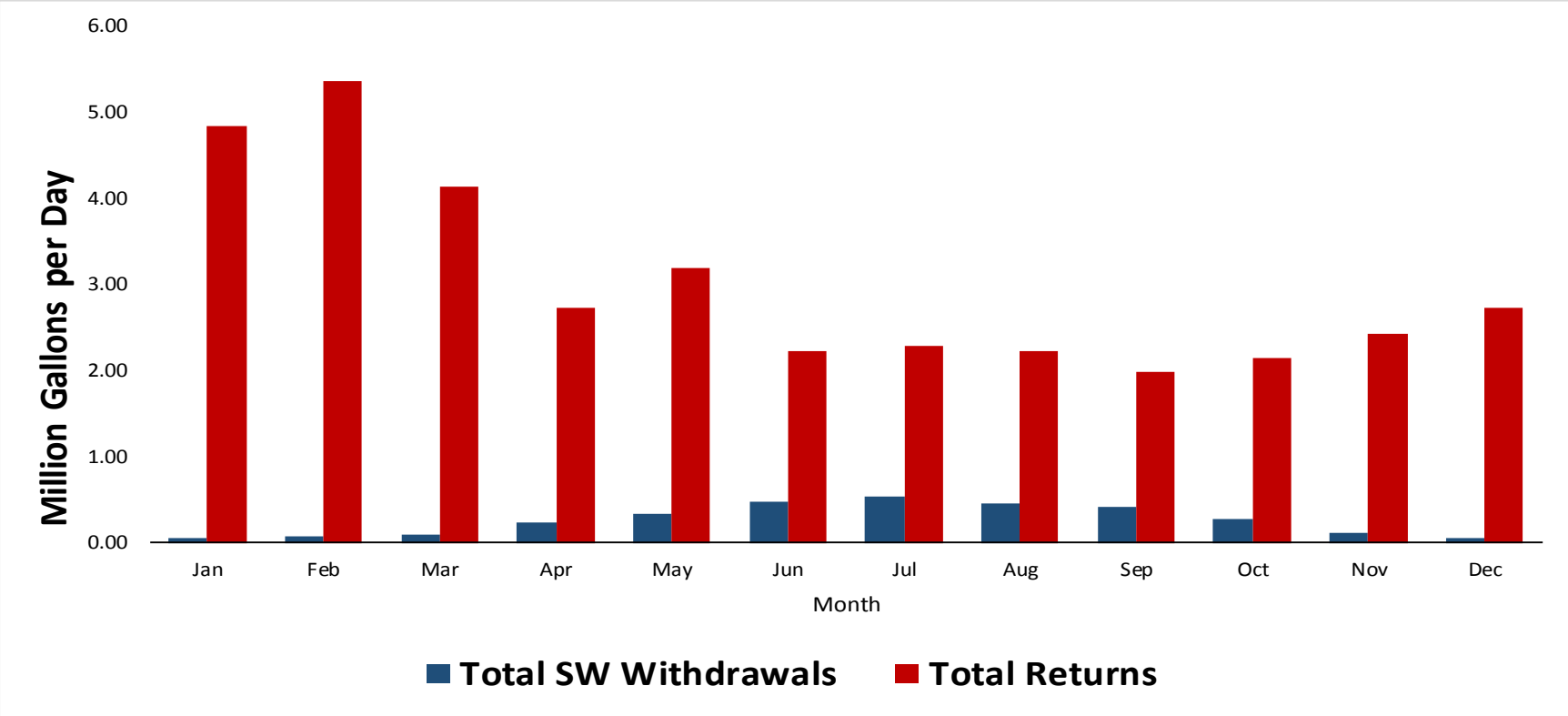
03140305-Escambia

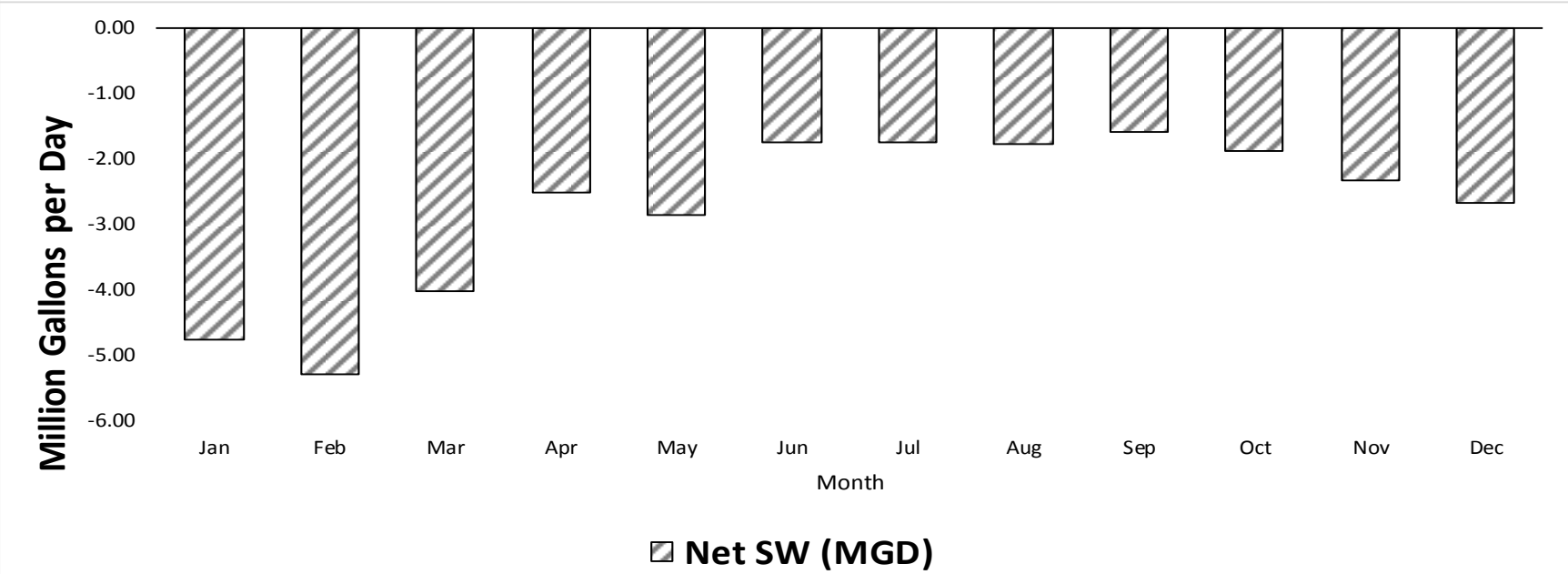
2010 FINAL DATA

Total SW Withdrawals	SW	0.05	0.06	0.09	0.22	0.33	0.47	0.54	0.45	0.41	0.28	0.11	0.06	0.25
Total GW Withdrawals	GW	2.84	2.51	2.55	2.74	3.83	3.52	3.61	3.12	2.93	2.78	2.47	2.27	2.93
Withdrawal Total		2.89	2.57	2.64	2.96	4.16	3.99	4.14	3.56	3.34	3.06	2.58	2.32	3.18
Total Returns		**4.83**	**5.36**	**4.13**	**2.73**	**3.19**	**2.22**	**2.28**	**2.23**	**1.99**	**2.15**	**2.43**	**2.73**	**3.02**
Net SW (MGD)	SW	**-4.78**	**-5.30**	**-4.04**	**-2.51**	**-2.87**	**-1.75**	**-1.75**	**-1.78**	**-1.59**	**-1.88**	**-2.33**	**-2.67**	**-2.77**

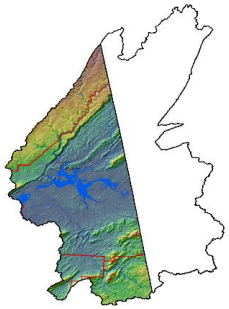
03140305-Escambia

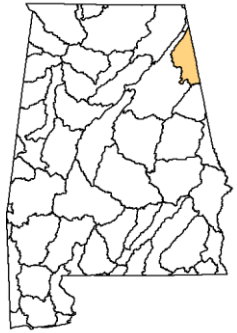
2010 FINAL DATA





03150105-Upper Coosa





Area in AL (Square Miles)	850.9
Estimated Population (2010)*	43,893

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	3.54	3.22	3.11	3.32	3.57	3.78	3.93	3.66	3.54	3.22	3.09	3.19	3.43
Public Supply	SW	2.06	1.89	1.82	2.06	2.02	2.23	2.32	2.13	1.95	1.70	1.62	1.70	1.96
Industrial/Mining	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.33	0.33	0.35	0.40	0.42	0.46	0.48	0.44	0.43	0.41	0.35	0.33	0.39
Agriculture	SW	0.96	1.12	1.73	3.63	4.53	6.15	6.99	5.70	5.29	4.04	1.86	1.12	3.59
Total	**SW**	**3.02**	**3.01**	**3.56**	**5.70**	**6.56**	**8.40**	**9.32**	**7.83**	**7.25**	**5.75**	**3.49**	**2.83**	**5.56**
Total	**GW**	**3.90**	**3.57**	**3.48**	**3.75**	**4.01**	**4.27**	**4.43**	**4.13**	**4.00**	**3.66**	**3.47**	**3.55**	**3.85**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		2.59	2.99	2.91	2.08	1.91	1.49	1.07	1.07	1.51	1.70	1.23	1.40	1.83
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**2.59**	**2.99**	**2.91**	**2.08**	**1.91**	**1.49**	**1.07**	**1.07**	**1.51**	**1.70**	**1.23**	**1.40**	**1.83**

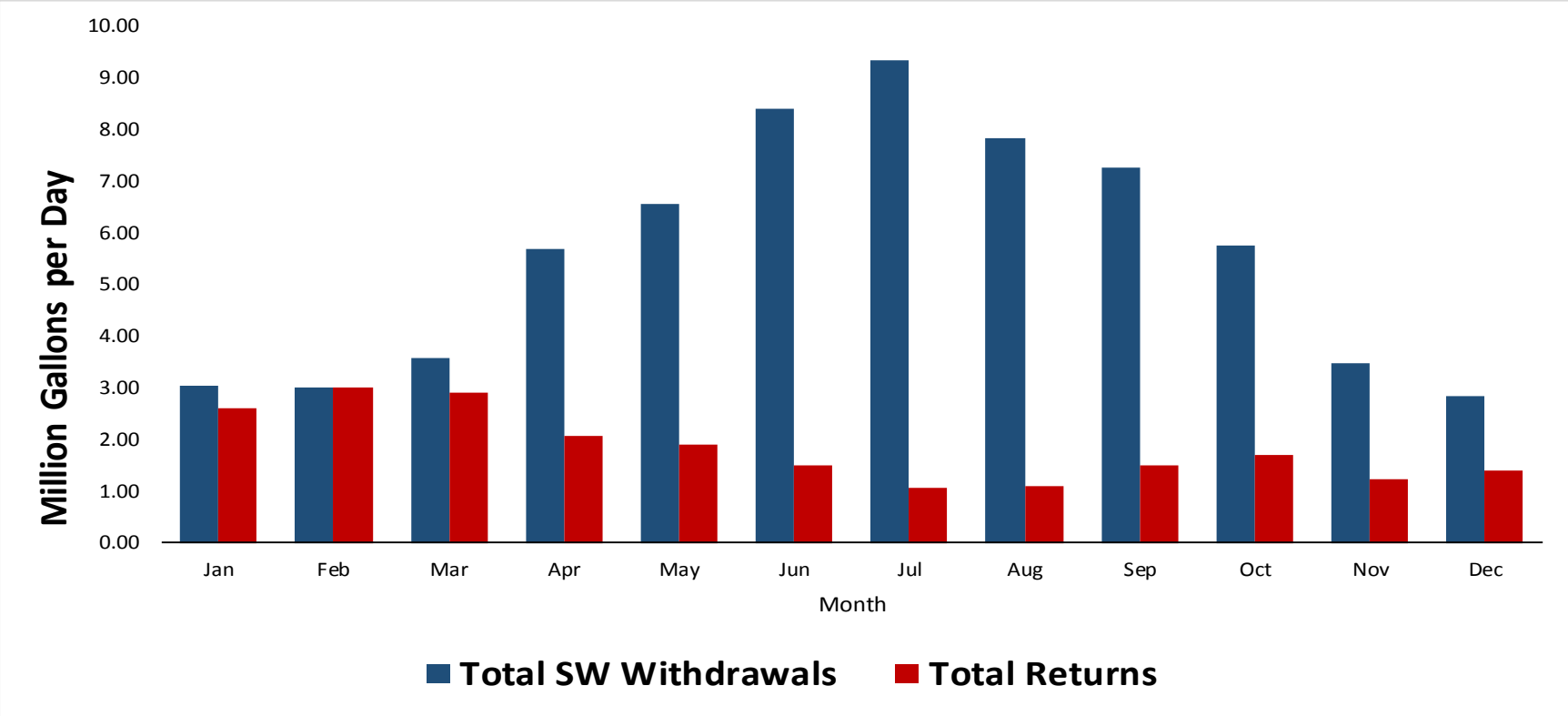
03150105-Upper Coosa

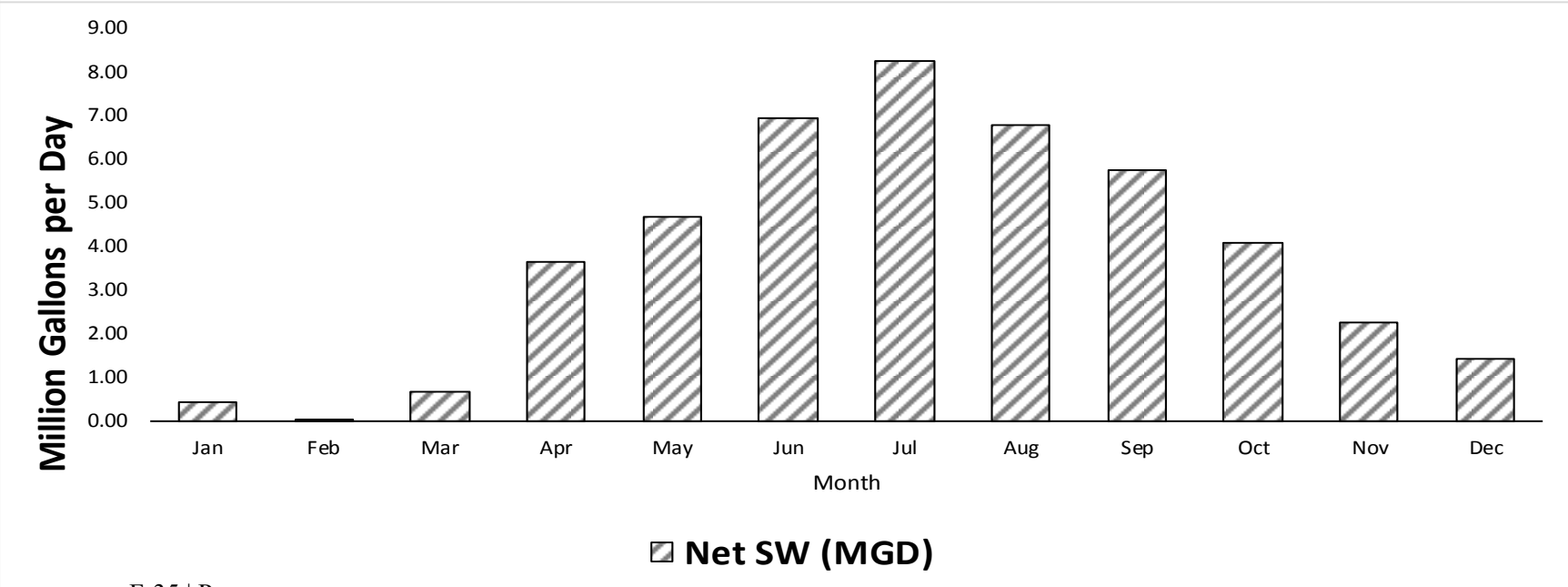
2010 FINAL DATA

Total SW Withdrawals	SW	3.02	3.01	3.56	5.70	6.56	8.40	9.32	7.83	7.25	5.75	3.49	2.83	5.56
Total GW Withdrawals	GW	3.90	3.57	3.48	3.75	4.01	4.27	4.43	4.13	4.00	3.66	3.47	3.55	3.85
Withdrawal Total		6.92	6.58	7.04	9.44	10.57	12.66	13.75	11.97	11.25	9.41	6.96	6.38	9.41
Total Returns		**2.59**	**2.99**	**2.91**	**2.08**	**1.91**	**1.49**	**1.07**	**1.07**	**1.51**	**1.70**	**1.23**	**1.40**	**1.83**
Net SW (MGD)	SW	**0.44**	**0.02**	**0.65**	**3.62**	**4.65**	**6.91**	**8.25**	**6.76**	**5.74**	**4.05**	**2.25**	**1.43**	**3.73**

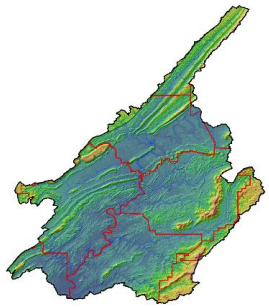
03150105-Upper Coosa

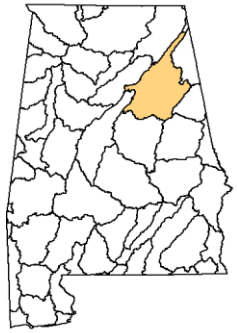
2010 FINAL DATA





03150106-Middle Coosa





Area in AL (Square Miles)	2,582.0
Estimated Population (2010)*	355,738

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	42.94	39.69	38.22	39.33	40.09	42.24	44.37	44.56	43.95	40.81	38.21	39.43	41.15
Public Supply	SW	29.50	27.08	25.49	27.54	28.27	32.37	35.56	35.92	37.33	33.81	29.20	28.51	30.88
Industrial/Mining	GW	4.93	4.84	5.02	5.11	4.93	4.88	4.55	4.74	4.74	4.63	4.64	4.66	4.81
Industrial/Mining	SW	35.74	36.97	36.43	44.98	42.19	40.30	40.93	40.70	38.09	37.63	33.07	36.24	38.61
Thermoelectric	SW	79.38	111.57	98.11	93.35	98.35	138.41	158.77	172.36	94.16	103.60	109.79	117.10	114.58
Agriculture	GW	0.72	0.77	0.85	1.13	1.45	1.97	2.15	1.75	1.37	1.13	0.83	0.74	1.24
Agriculture	SW	4.21	5.01	8.95	19.66	23.59	31.21	35.96	29.94	28.66	21.79	9.87	5.09	18.66
Total	**SW**	**148.83**	**180.64**	**168.98**	**185.53**	**192.39**	**242.29**	**271.22**	**278.93**	**198.24**	**196.83**	**181.93**	**186.94**	**202.73**
Total	**GW**	**48.59**	**45.29**	**44.08**	**45.57**	**46.46**	**49.10**	**51.06**	**51.04**	**50.06**	**46.56**	**43.68**	**44.84**	**47.19**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		54.43	63.20	63.45	41.65	43.83	36.52	30.46	28.29	25.48	25.63	27.24	28.83	39.08
Industrial/Mining		41.13	44.92	44.60	46.29	41.43	41.61	58.83	54.22	47.57	40.22	38.89	46.96	45.56
Thermoelectric		79.02	105.38	97.76	92.99	97.99	138.00	158.41	172.01	96.95	103.25	110.44	116.74	114.08
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**174.58**	**213.50**	**205.81**	**180.94**	**183.25**	**216.12**	**247.71**	**254.52**	**170.00**	**169.10**	**176.57**	**192.53**	**198.72**

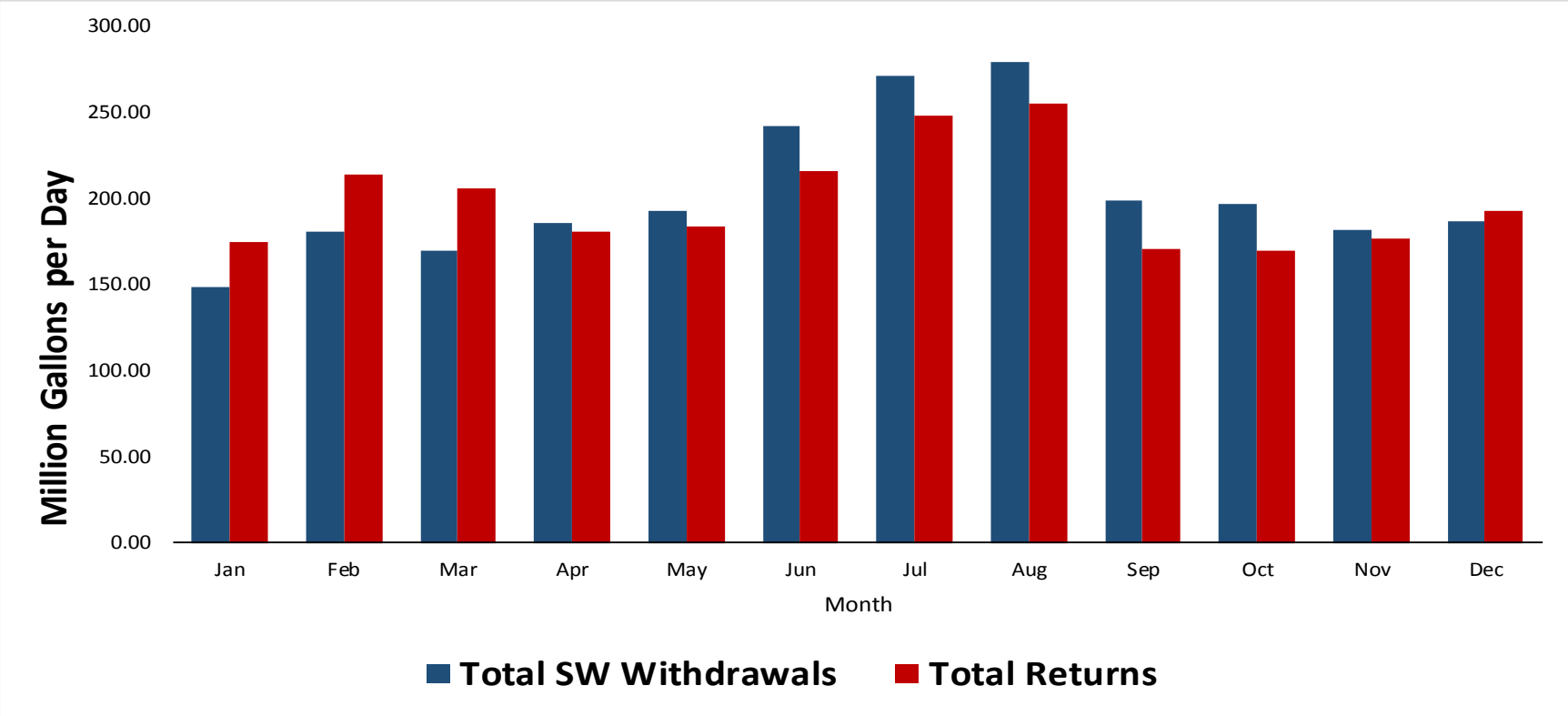
03150106-Middle Coosa

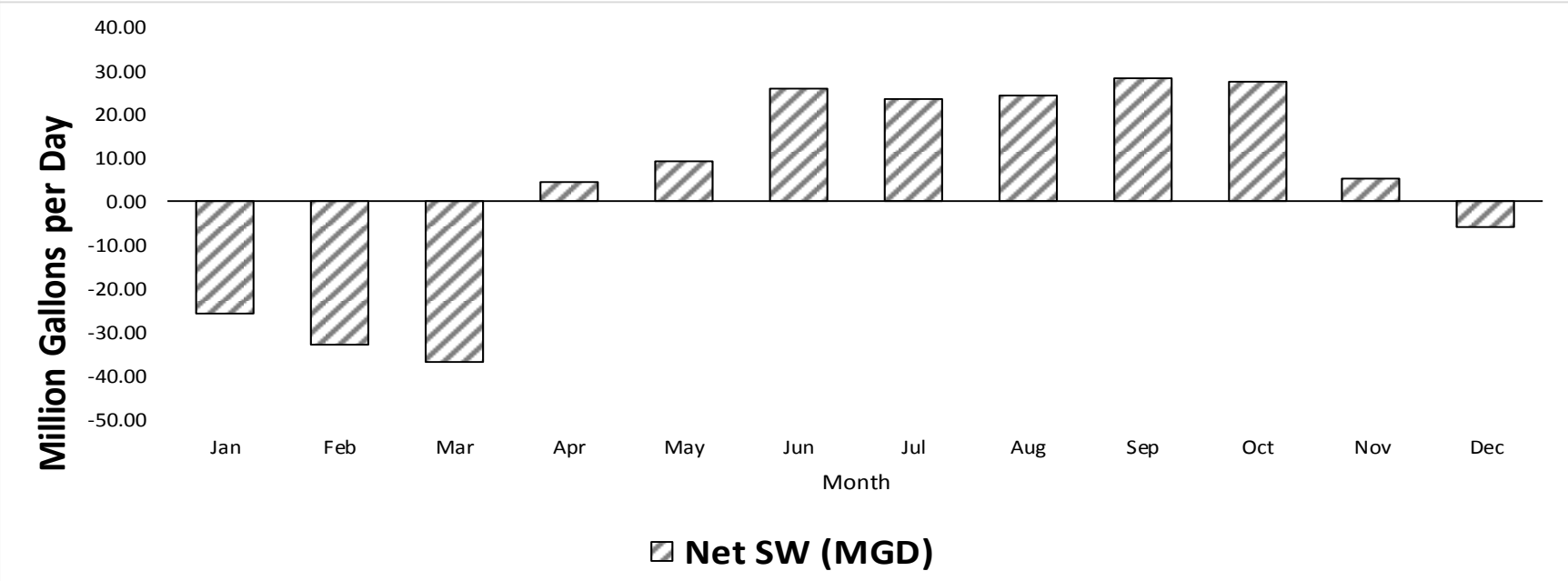
2010 FINAL DATA

Total SW Withdrawals	SW	148.83	180.64	168.98	185.53	192.39	242.29	271.22	278.93	198.24	196.83	181.93	186.94	202.73
Total GW Withdrawals	GW	48.59	45.29	44.08	45.57	46.46	49.10	51.06	51.04	50.06	46.56	43.68	44.84	47.19
Withdrawal Total		197.42	225.93	213.07	231.10	238.86	291.39	322.28	329.97	248.30	243.39	225.61	231.78	249.92
Total Returns		**174.58**	**213.50**	**205.81**	**180.94**	**183.25**	**216.12**	**247.71**	**254.52**	**170.00**	**169.10**	**176.57**	**192.53**	**198.72**
Net SW (MGD)	SW	**-25.75**	**-32.86**	**-36.83**	**4.59**	**9.14**	**26.17**	**23.51**	**24.41**	**28.23**	**27.72**	**5.36**	**-5.59**	**4.01**

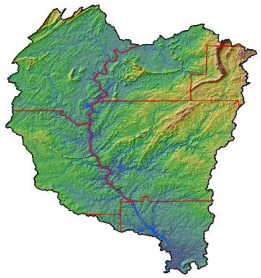
03150106-Middle Coosa

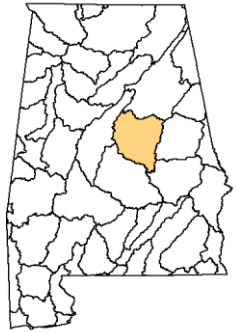
2010 FINAL DATA





03150107-Lower Coosa





Area in AL (Square Miles)	1,961.0
Estimated Population (2010)*	145,499

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	9.21	6.93	6.94	6.87	7.35	7.77	7.92	9.15	9.05	8.69	8.45	6.96	7.94
Public Supply	SW	9.95	8.14	8.21	8.86	9.22	10.00	11.72	11.10	11.34	9.87	8.53	8.97	9.66
Industrial/Mining	GW	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Industrial/Mining	SW	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Thermoelectric	SW	702.22	544.72	566.06	507.75	633.70	882.31	875.33	556.61	657.73	517.55	687.01	854.44	665.45
Agriculture	GW	0.34	0.43	0.56	1.06	1.77	2.92	3.27	2.41	1.50	1.01	0.49	0.36	1.34
Agriculture	SW	0.81	0.96	1.61	3.62	4.59	6.19	7.13	6.03	5.72	4.18	1.81	0.93	3.63
Total	**SW**	**713.23**	**554.08**	**576.14**	**520.48**	**647.77**	**898.75**	**894.44**	**573.99**	**675.04**	**531.85**	**697.61**	**864.60**	**679.00**
Total	**GW**	**10.09**	**7.91**	**8.05**	**8.47**	**9.67**	**11.24**	**11.74**	**12.11**	**11.09**	**10.25**	**9.49**	**7.87**	**9.83**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		14.93	17.38	17.06	10.39	10.28	9.20	7.78	7.52	6.77	6.36	7.74	8.56	10.33
Industrial/Mining		18.32	18.47	17.82	9.77	9.82	7.59	9.62	9.82	10.33	9.93	9.91	7.04	11.54
Thermoelectric		700.48	543.82	564.54	486.91	632.52	880.57	873.60	557.77	655.96	515.78	685.09	853.66	662.56
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**733.72**	**579.66**	**599.43**	**507.06**	**652.62**	**897.36**	**891.01**	**575.12**	**673.06**	**532.06**	**702.74**	**869.26**	**684.42**

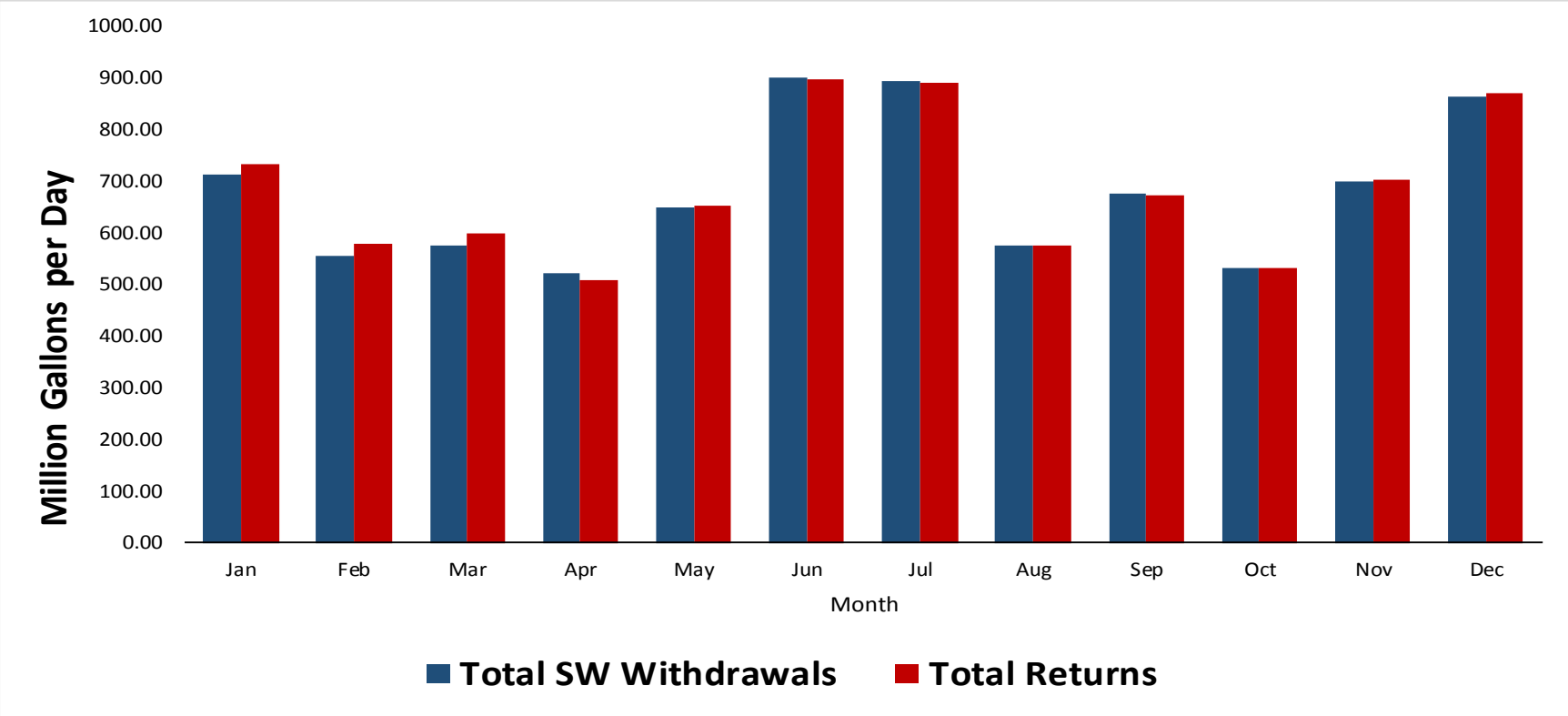
03150107-Lower Coosa

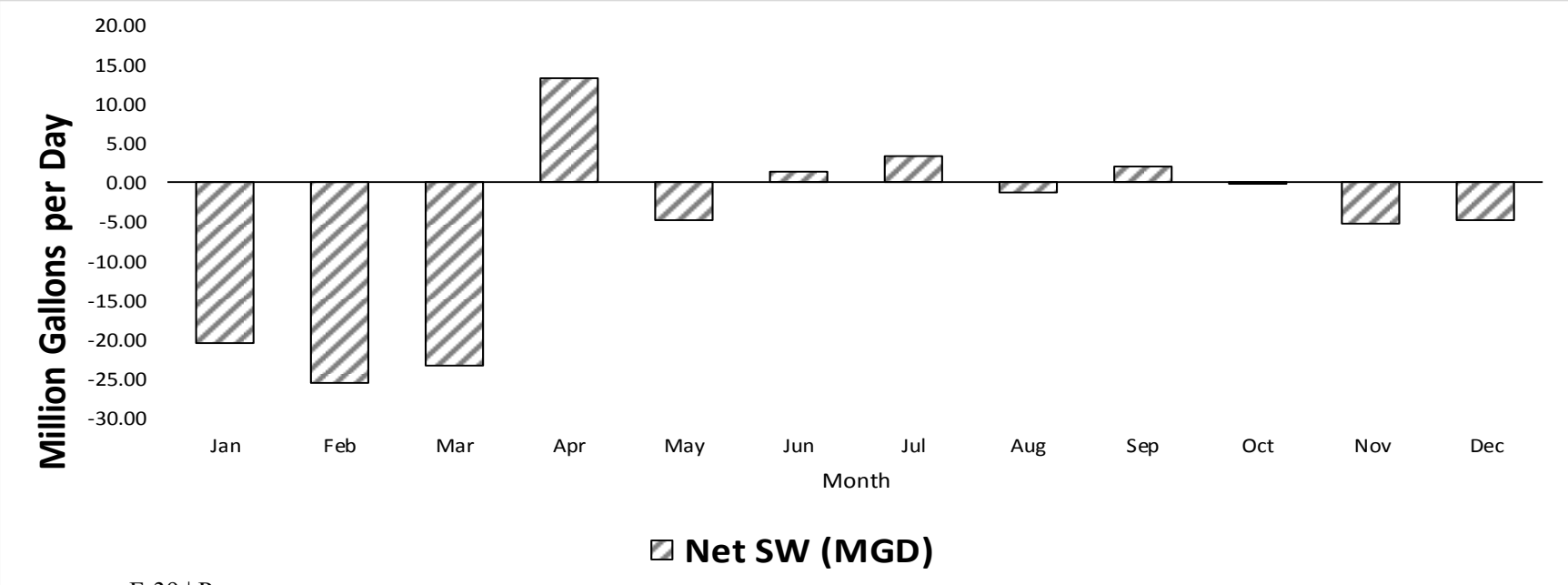
2010 FINAL DATA

Total SW Withdrawals	SW	713.23	554.08	576.14	520.48	647.77	898.75	894.44	573.99	675.04	531.85	697.61	864.60	679.00
Total GW Withdrawals	GW	10.09	7.91	8.05	8.47	9.67	11.24	11.74	12.11	11.09	10.25	9.49	7.87	9.83
Withdrawal Total		723.32	561.98	584.19	528.96	657.44	909.99	906.18	586.10	686.13	542.10	707.10	872.47	688.83
Total Returns		**733.72**	**579.66**	**599.43**	**507.06**	**652.62**	**897.36**	**891.01**	**575.12**	**673.06**	**532.06**	**702.74**	**869.26**	**684.42**
Net SW (MGD)	SW	**-20.49**	**-25.59**	**-23.29**	**13.42**	**-4.85**	**1.39**	**3.43**	**-1.13**	**1.98**	**-0.21**	**-5.12**	**-4.66**	**-5.43**

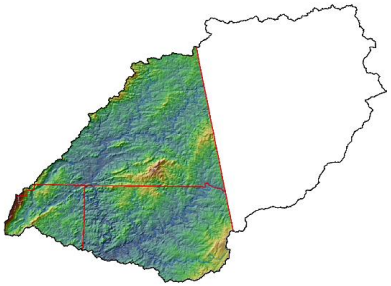
03150107-Lower Coosa

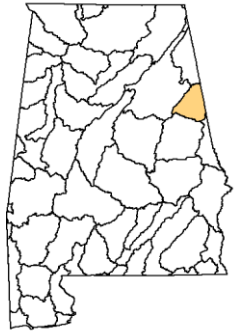
2010 FINAL DATA





03150108-Upper Tallapoosa





Area in AL (Square Miles)	743.5
Estimated Population (2010)*	21,662

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
Public Supply	SW	1.08	0.93	0.90	0.93	1.04	1.08	1.05	1.14	1.09	1.05	1.01	1.01	1.02
Industrial/Mining	GW	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Industrial/Mining	SW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.31	0.36	0.40	0.57	0.93	1.49	1.64	1.23	0.74	0.53	0.35	0.32	0.74
Agriculture	SW	0.38	0.40	0.44	0.56	0.78	1.12	1.22	0.97	0.68	0.54	0.41	0.38	0.66
Total	**SW**	**1.47**	**1.35**	**1.35**	**1.51**	**1.83**	**2.22**	**2.29**	**2.12**	**1.79**	**1.60**	**1.43**	**1.41**	**1.70**
Total	**GW**	**2.09**	**2.13**	**2.17**	**2.34**	**2.70**	**3.26**	**3.41**	**3.00**	**2.51**	**2.30**	**2.12**	**2.09**	**2.51**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.65	0.63	0.64	0.45	0.45	0.37	0.37	0.35	0.30	0.32	0.31	0.34	0.43
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.65**	**0.63**	**0.64**	**0.45**	**0.45**	**0.37**	**0.37**	**0.35**	**0.30**	**0.32**	**0.31**	**0.34**	**0.43**

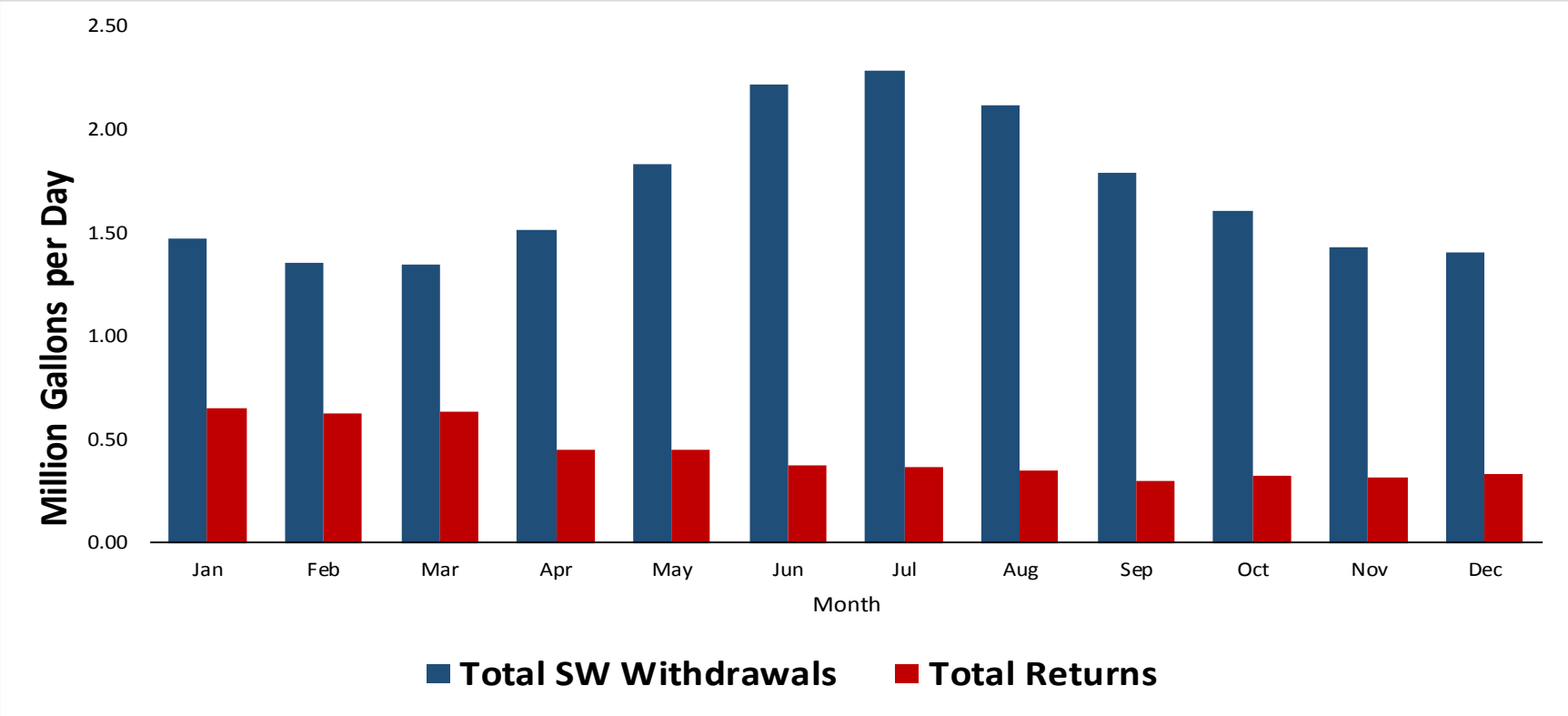
03150108-Upper Tallapoosa

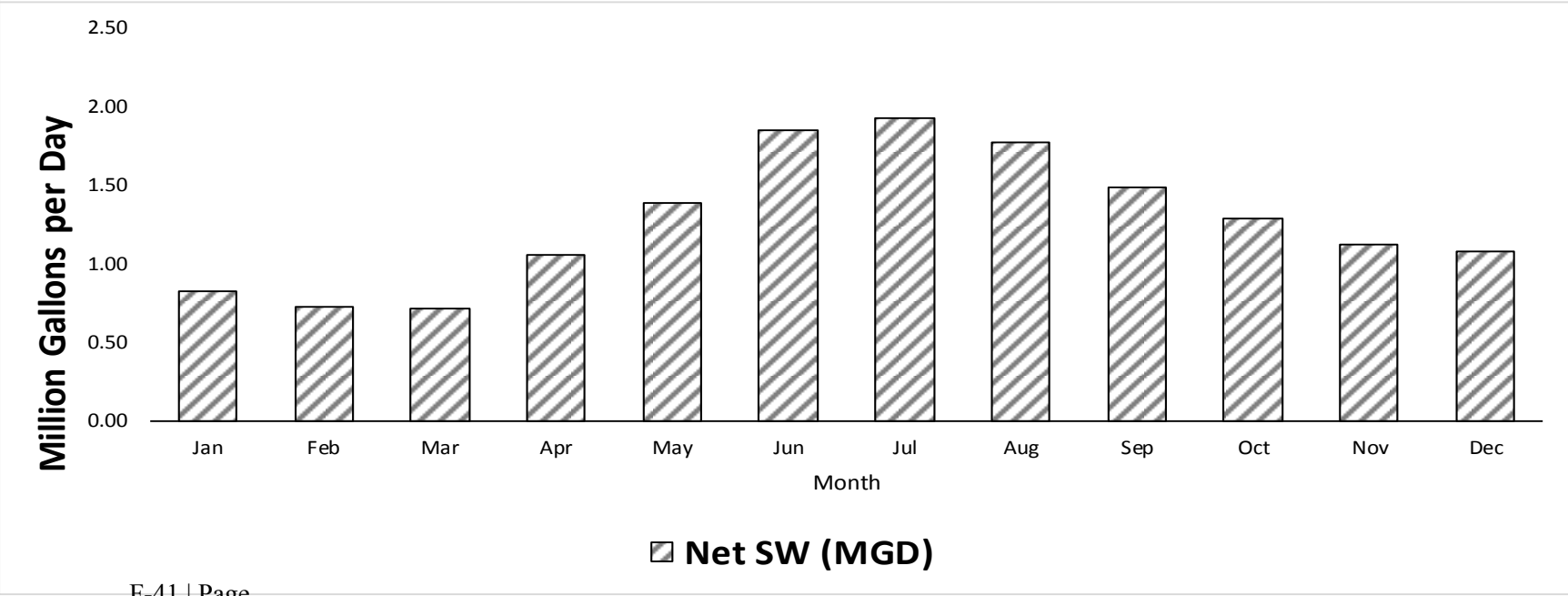
2010 FINAL DATA

Total SW Withdrawals	SW	1.47	1.35	1.35	1.51	1.83	2.22	2.29	2.12	1.79	1.60	1.43	1.41	1.70
Total GW Withdrawals	GW	2.09	2.13	2.17	2.34	2.70	3.26	3.41	3.00	2.51	2.30	2.12	2.09	2.51
Withdrawal Total		3.55	3.48	3.52	3.85	4.53	5.48	5.70	5.12	4.30	3.90	3.56	3.49	4.21
Total Returns		**0.65**	**0.63**	**0.64**	**0.45**	**0.45**	**0.37**	**0.37**	**0.35**	**0.30**	**0.32**	**0.31**	**0.34**	**0.43**
Net SW (MGD)	SW	**0.82**	**0.72**	**0.71**	**1.06**	**1.38**	**1.84**	**1.92**	**1.76**	**1.49**	**1.28**	**1.12**	**1.07**	**1.26**

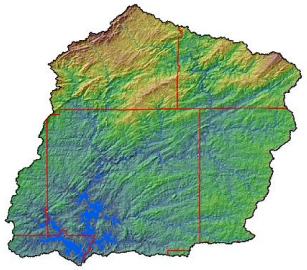
03150108-Upper Tallapoosa

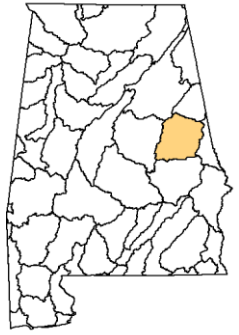
2010 FINAL DATA





03150109-Middle Tallapoosa





Area in AL (Square Miles)	1,589.0
Estimated Population (2010)*	60,476

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
Public Supply	SW	17.09	15.29	13.72	15.54	15.54	18.38	20.52	20.01	20.34	16.82	14.23	17.57	17.09
Industrial/Mining	GW	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Industrial/Mining	SW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.27	0.29	0.34	0.51	0.61	0.79	0.87	0.72	0.63	0.52	0.34	0.29	0.51
Agriculture	SW	1.19	1.23	1.33	1.83	2.27	2.86	3.13	2.79	2.57	2.04	1.37	1.19	1.98
Total	**SW**	**18.30**	**16.55**	**15.08**	**17.40**	**17.83**	**21.27**	**23.67**	**22.83**	**22.94**	**18.89**	**15.63**	**18.79**	**19.10**
Total	**GW**	**1.64**	**1.66**	**1.72**	**1.88**	**1.98**	**2.16**	**2.24**	**2.09**	**2.00**	**1.90**	**1.72**	**1.66**	**1.89**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		8.73	8.85	7.56	5.29	5.81	4.81	5.48	6.03	4.20	4.64	5.05	5.52	6.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.44	0.35	0.19	0.35	0.23	0.39	0.30	0.23	0.16	0.18	0.03	0.14	0.25
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**9.17**	**9.20**	**7.75**	**5.64**	**6.04**	**5.20**	**5.78**	**6.26**	**4.36**	**4.82**	**5.08**	**5.66**	**6.24**

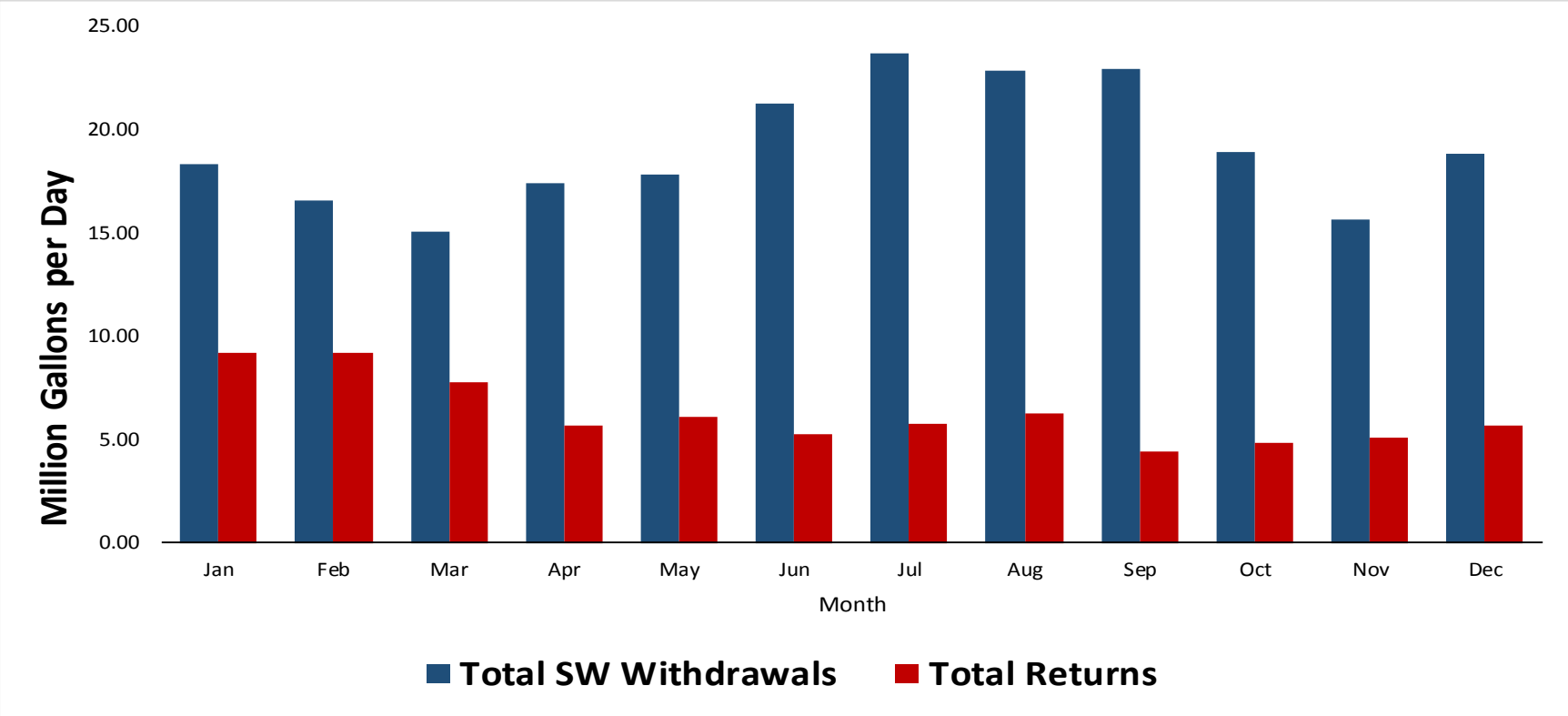
03150109-Middle Tallapoosa

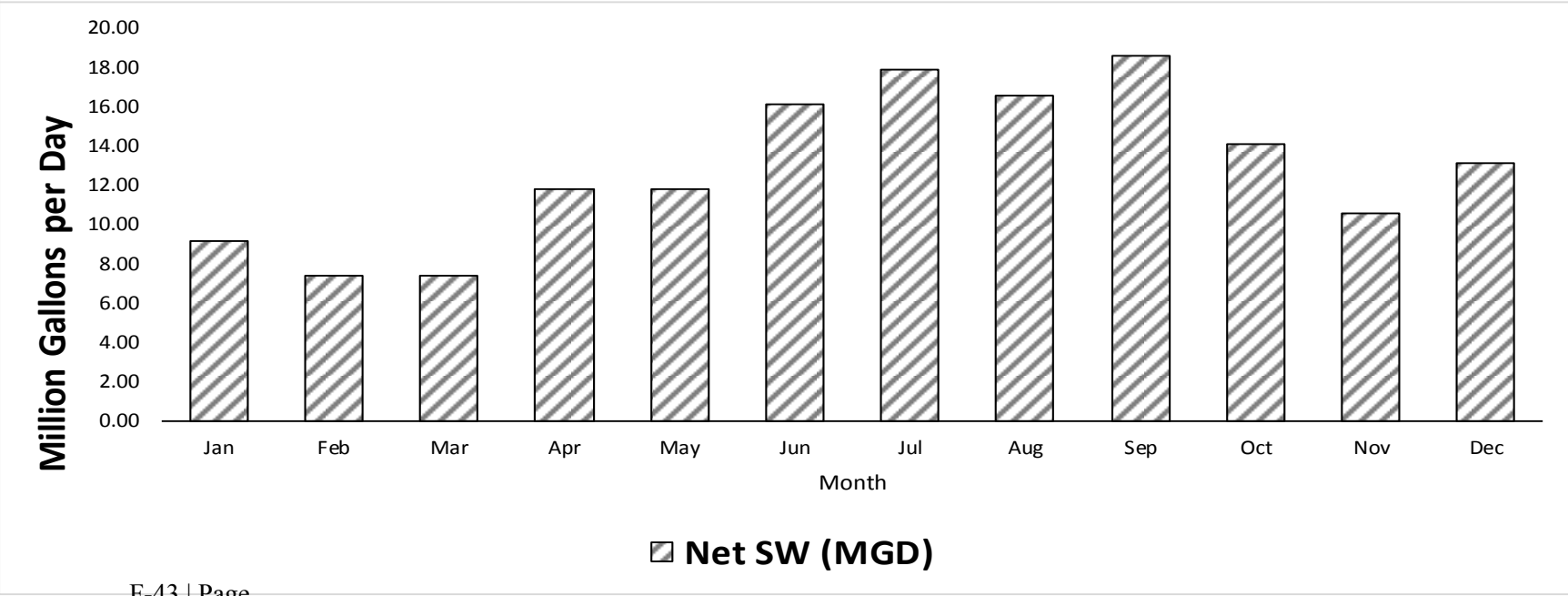
2010 FINAL DATA

Total SW Withdrawals	SW	18.30	16.55	15.08	17.40	17.83	21.27	23.67	22.83	22.94	18.89	15.63	18.79	19.10
Total GW Withdrawals	GW	1.64	1.66	1.72	1.88	1.98	2.16	2.24	2.09	2.00	1.90	1.72	1.66	1.89
Withdrawal Total		19.95	18.21	16.79	19.28	19.81	23.43	25.91	24.92	24.94	20.78	17.34	20.45	20.98
Total Returns		**9.17**	**9.20**	**7.75**	**5.64**	**6.04**	**5.20**	**5.78**	**6.26**	**4.36**	**4.82**	**5.08**	**5.66**	**6.24**
Net SW (MGD)	SW	**9.13**	**7.35**	**7.33**	**11.76**	**11.79**	**16.07**	**17.89**	**16.57**	**18.58**	**14.07**	**10.55**	**13.14**	**12.85**

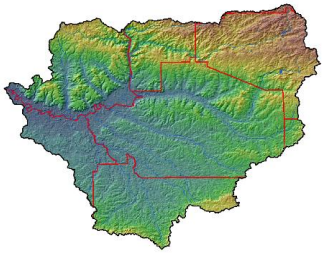
03150109-Middle Tallapoosa

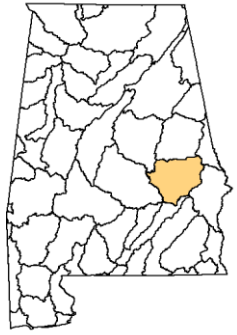
2010 FINAL DATA





03150110-Lower Tallapoosa





Area in AL (Square Miles)	1,702.0
Estimated Population (2010)*	180,737

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.88	3.00	3.76	3.35	3.21	3.35	4.33	4.22	4.17	3.71	3.50	3.48	3.66
Public Supply	SW	31.00	30.70	30.36	31.09	30.47	30.37	31.96	34.66	34.78	30.19	27.46	25.49	30.71
Industrial/Mining	GW	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Industrial/Mining	SW	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.81	0.96	1.66	3.62	4.23	5.56	6.35	5.15	5.03	3.98	1.80	1.02	3.35
Agriculture	SW	1.33	1.66	3.11	7.19	9.17	12.62	14.59	12.09	11.02	8.03	3.44	1.59	7.15
Total	**SW**	**32.71**	**32.74**	**33.85**	**38.65**	**40.01**	**43.37**	**46.93**	**47.13**	**46.18**	**38.60**	**31.28**	**27.46**	**38.24**
Total	**GW**	**5.48**	**4.74**	**6.21**	**7.76**	**8.23**	**9.70**	**11.46**	**10.15**	**9.99**	**8.48**	**6.09**	**5.28**	**7.80**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		17.63	18.02	16.96	13.34	13.34	12.96	11.50	11.60	10.47	9.81	9.86	9.62	12.93
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**17.63**	**18.02**	**16.96**	**13.34**	**13.34**	**12.96**	**11.50**	**11.60**	**10.47**	**9.81**	**9.86**	**9.62**	**12.93**

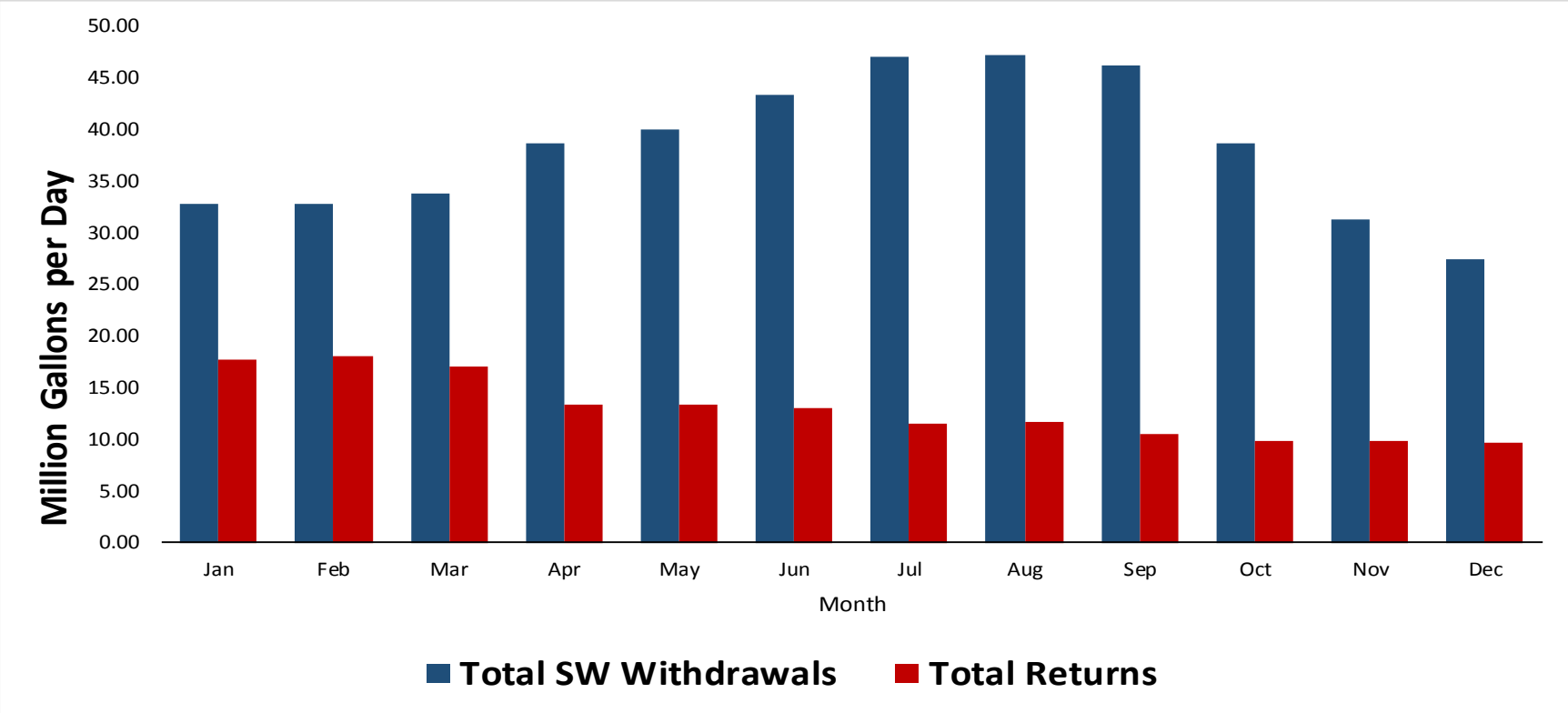
03150110-Lower Tallapoosa

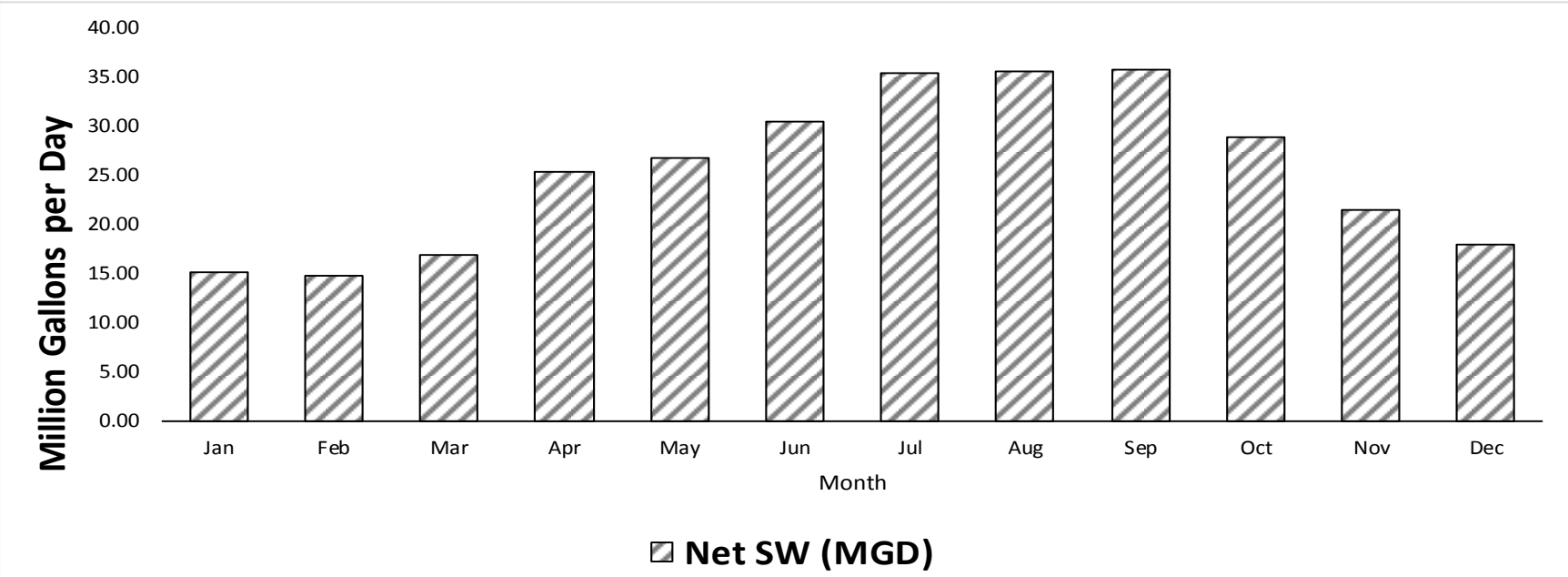
2010 FINAL DATA

Total SW Withdrawals	SW	32.71	32.74	33.85	38.65	40.01	43.37	46.93	47.13	46.18	38.60	31.28	27.46	38.24
Total GW Withdrawals	GW	5.48	4.74	6.21	7.76	8.23	9.70	11.46	10.15	9.99	8.48	6.09	5.28	7.80
Withdrawal Total		38.19	37.48	40.06	46.41	48.24	53.08	58.39	57.28	56.16	47.08	37.37	32.74	46.04
Total Returns		**17.63**	**18.02**	**16.96**	**13.34**	**13.34**	**12.96**	**11.50**	**11.60**	**10.47**	**9.81**	**9.86**	**9.62**	**12.93**
Net SW (MGD)	SW	**15.08**	**14.72**	**16.90**	**25.31**	**26.67**	**30.42**	**35.43**	**35.53**	**35.71**	**28.79**	**21.42**	**17.84**	**25.32**

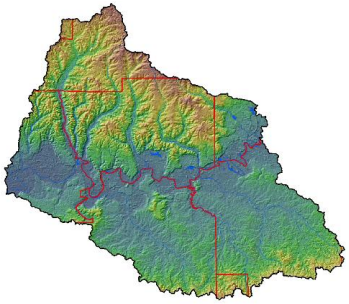
03150110-Lower Tallapoosa

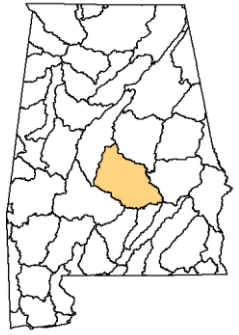
2010 FINAL DATA





03150201-Upper Alabama





Area in AL (Square Miles)	2,389.0
Estimated Population (2010)*	325,625

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	31.28	25.54	24.16	30.45	35.59	38.05	36.80	37.48	36.67	35.19	29.89	29.50	32.55
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	3.60	3.46	3.42	3.45	3.71	3.59	3.58	3.65	3.81	3.77	3.79	3.87	3.64
Industrial/Mining	SW	63.12	62.49	62.50	63.28	60.25	66.98	68.38	65.15	66.05	64.32	62.10	61.61	63.85
Thermoelectric	SW	2.48	2.95	2.09	3.40	5.22	9.76	9.87	15.03	7.37	4.65	3.51	3.49	5.82
Agriculture	GW	1.33	1.53	2.45	5.04	5.88	7.70	8.74	7.12	6.90	5.50	2.63	1.61	4.70
Agriculture	SW	1.89	2.22	3.54	7.14	9.16	12.65	14.55	12.13	10.57	7.71	3.77	2.09	7.28
Total	**SW**	**67.49**	**67.66**	**68.13**	**73.82**	**74.63**	**89.39**	**92.80**	**92.31**	**83.98**	**76.68**	**69.38**	**67.18**	**76.95**
Total	**GW**	**36.21**	**30.53**	**30.03**	**38.94**	**45.18**	**49.35**	**49.12**	**48.25**	**47.37**	**44.45**	**36.30**	**34.98**	**40.89**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		52.20	50.92	46.55	37.57	39.91	37.60	36.88	36.79	34.66	33.96	36.77	36.01	39.98
Industrial/Mining		87.42	88.92	90.71	124.32	85.41	89.74	105.87	95.07	89.06	81.48	77.74	73.80	90.79
Thermoelectric		0.92	1.54	2.92	2.10	0.51	3.08	4.61	3.61	2.71	2.04	1.84	2.37	2.35
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**140.54**	**141.38**	**140.18**	**163.99**	**125.82**	**130.42**	**147.36**	**135.47**	**126.43**	**117.48**	**116.35**	**112.19**	**133.13**

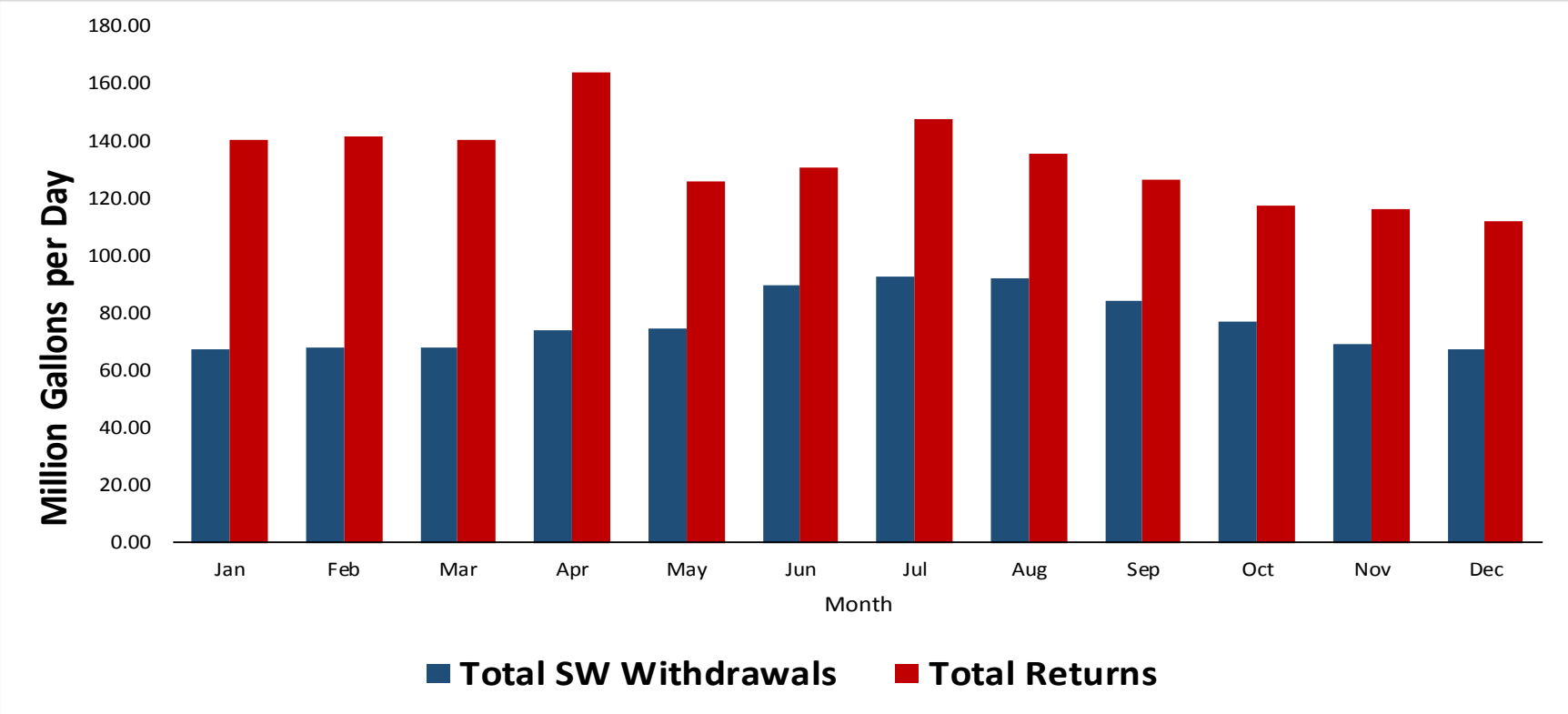
03150201-Upper Alabama

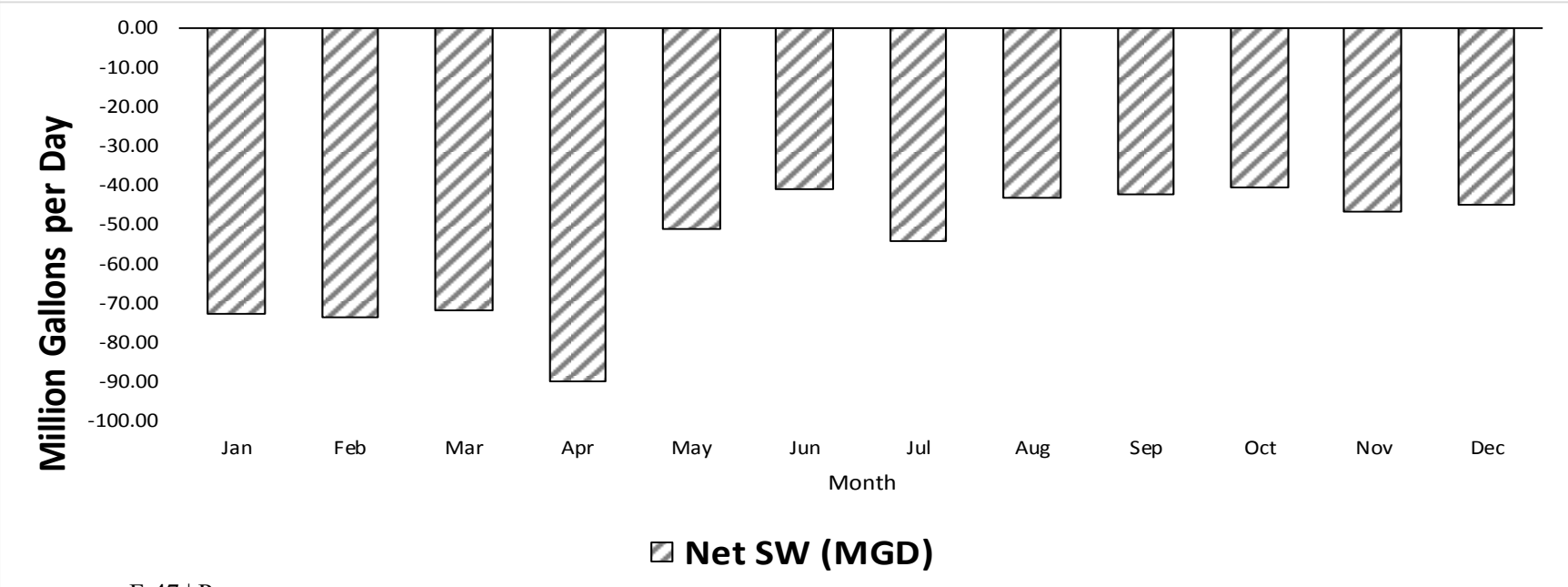
2010 FINAL DATA

Total SW Withdrawals	SW	67.49	67.66	68.13	73.82	74.63	89.39	92.80	92.31	83.98	76.68	69.38	67.18	76.95
Total GW Withdrawals	GW	36.21	30.53	30.03	38.94	45.18	49.35	49.12	48.25	47.37	44.45	36.30	34.98	40.89
Withdrawal Total		103.70	98.19	98.16	112.75	119.81	138.73	141.92	140.56	131.35	121.13	105.68	102.16	117.85
Total Returns		**140.54**	**141.38**	**140.18**	**163.99**	**125.82**	**130.42**	**147.36**	**135.47**	**126.43**	**117.48**	**116.35**	**112.19**	**133.13**
Net SW (MGD)	SW	**-73.05**	**-73.73**	**-72.05**	**-90.17**	**-51.19**	**-41.03**	**-54.56**	**-43.16**	**-42.45**	**-40.80**	**-46.97**	**-45.00**	**-56.18**

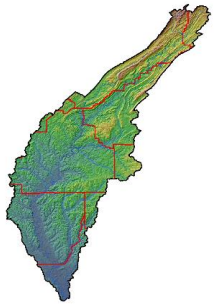
03150201-Upper Alabama

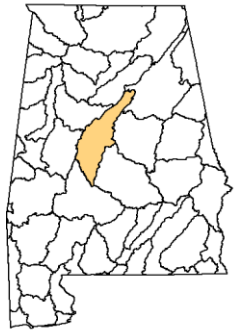
2010 FINAL DATA





03150202-Cahaba





Area in AL (Square Miles)	1,822.0
Estimated Population (2010)*	433,371

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	27.74	25.08	26.03	27.25	28.43	29.61	31.09	31.32	31.05	29.61	26.20	25.82	28.27
Public Supply	SW	55.04	49.33	47.81	53.94	53.84	51.32	55.36	55.58	55.91	51.17	49.62	49.45	52.36
Industrial/Mining	GW	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Industrial/Mining	SW	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.24	0.29	0.37	0.68	1.04	1.64	1.83	1.38	0.93	0.66	0.34	0.26	0.80
Agriculture	SW	2.93	3.17	4.72	8.47	9.91	12.18	14.18	13.07	12.79	9.50	5.28	3.01	8.27
Total	**SW**	**58.23**	**52.75**	**52.78**	**62.67**	**64.01**	**63.76**	**69.79**	**68.90**	**68.95**	**60.94**	**55.16**	**52.72**	**60.89**
Total	**GW**	**29.08**	**26.46**	**27.50**	**29.02**	**30.56**	**32.35**	**34.01**	**33.80**	**33.08**	**31.37**	**27.64**	**27.17**	**30.17**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		36.14	42.04	35.68	27.46	27.48	27.25	22.84	24.92	22.73	21.77	24.57	26.52	28.28
Industrial/Mining		0.20	0.78	1.56	0.02	1.98	0.03	0.91	1.98	0.03	0.15	0.95	1.65	0.85
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**36.34**	**42.82**	**37.23**	**27.48**	**29.46**	**27.27**	**23.74**	**26.90**	**22.76**	**21.92**	**25.53**	**28.16**	**29.13**

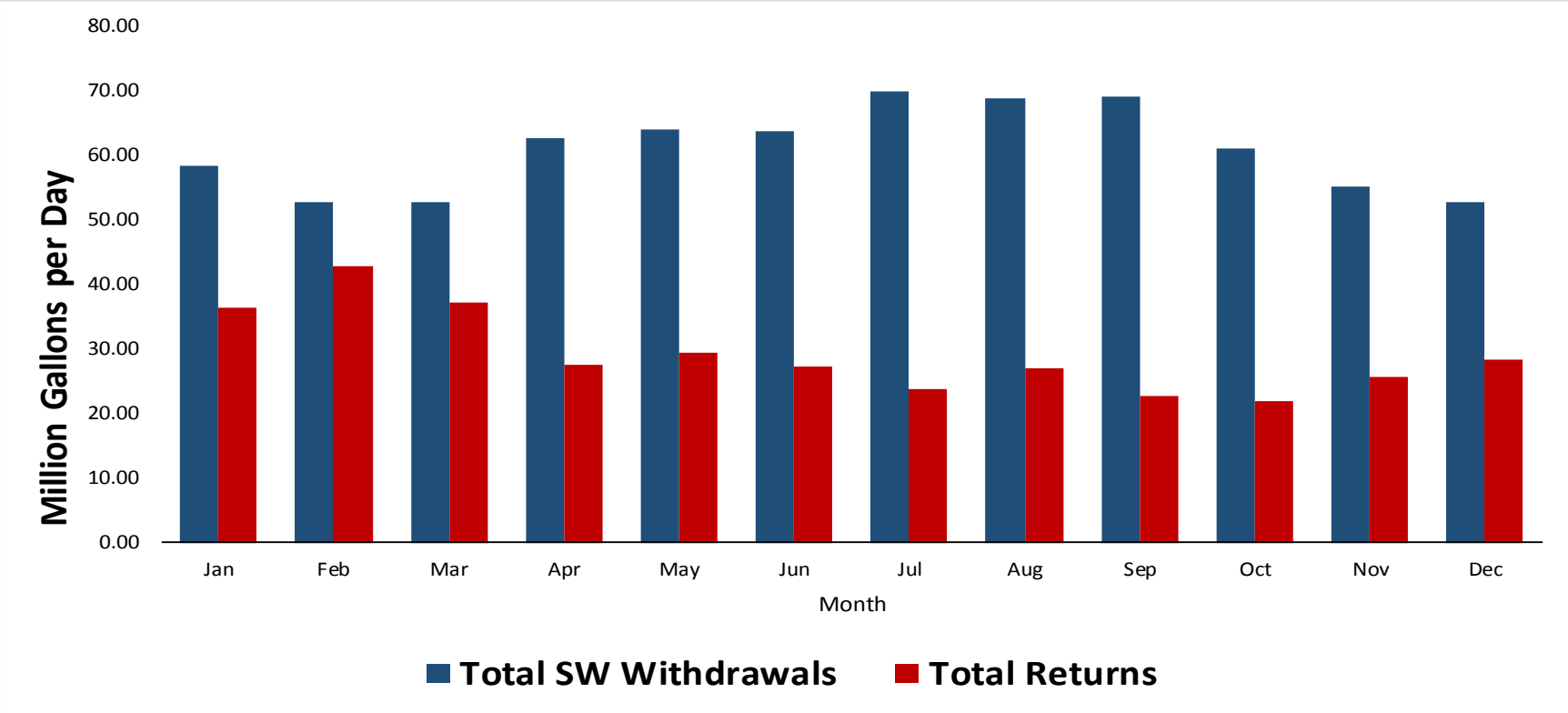
03150202-Cahaba

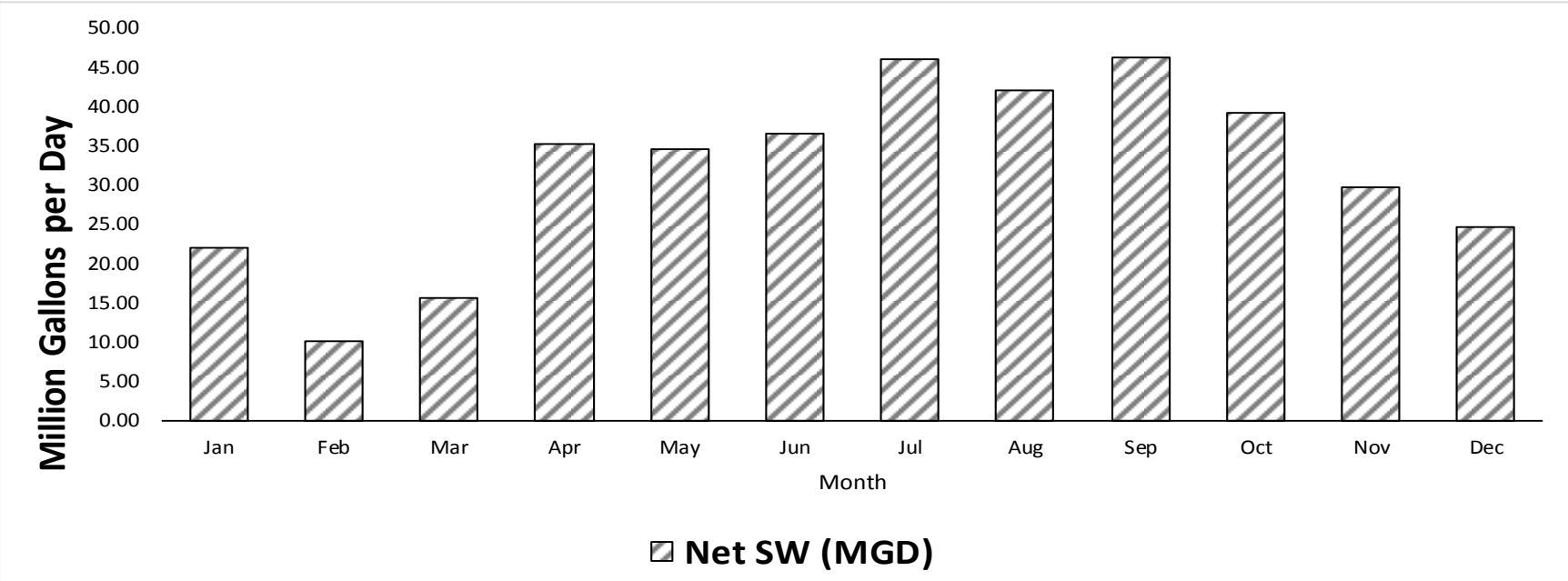
2010 FINAL DATA

Total SW Withdrawals	SW	58.23	52.75	52.78	62.67	64.01	63.76	69.79	68.90	68.95	60.94	55.16	52.72	60.89
Total GW Withdrawals	GW	29.08	26.46	27.50	29.02	30.56	32.35	34.01	33.80	33.08	31.37	27.64	27.17	30.17
Withdrawal Total		87.31	79.21	80.28	91.69	94.57	96.11	103.80	102.70	102.03	92.30	82.80	79.89	91.06
Total Returns		**36.34**	**42.82**	**37.23**	**27.48**	**29.46**	**27.27**	**23.74**	**26.90**	**22.76**	**21.92**	**25.53**	**28.16**	**29.13**
Net SW (MGD)	SW	**21.89**	**9.94**	**15.55**	**35.19**	**34.55**	**36.48**	**46.05**	**42.00**	**46.20**	**39.02**	**29.64**	**24.56**	**31.76**

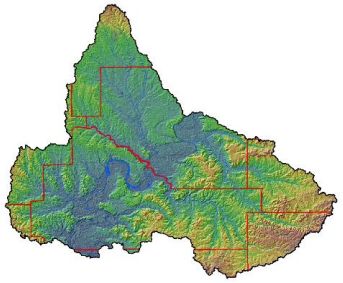
03150202-Cahaba

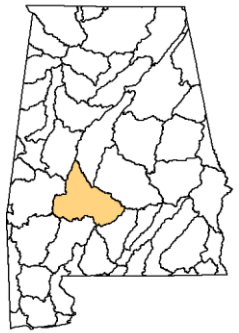
2010 FINAL DATA





03150203-Middle Alabama





Area in AL (Square Miles)	2,228.0
Estimated Population (2010)*	28,540

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.07	4.70	3.18	3.48	3.25	3.47	3.42	3.68	5.17	3.54	3.38	3.46	3.81
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Industrial/Mining	SW	18.59	19.41	19.22	18.38	18.70	18.89	18.85	19.68	18.64	15.73	17.10	18.04	18.44
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.35	0.37	0.46	0.71	0.82	1.04	1.15	0.96	0.90	0.75	0.47	0.38	0.70
Agriculture	SW	14.00	14.17	14.61	15.99	17.02	18.83	19.55	18.12	17.08	16.10	14.59	14.12	16.18
Total	**SW**	**32.60**	**33.57**	**33.83**	**34.37**	**35.72**	**37.72**	**38.40**	**37.80**	**35.73**	**31.83**	**31.69**	**32.16**	**34.62**
Total	**GW**	**5.71**	**5.37**	**3.93**	**4.48**	**4.36**	**4.80**	**4.86**	**4.93**	**6.36**	**4.58**	**4.14**	**4.12**	**4.80**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.63	0.64	0.57	0.31	0.40	0.45	0.40	0.53	0.50	0.30	0.40	0.33	0.46
Industrial/Mining		22.10	25.30	21.05	17.40	18.50	17.77	17.20	16.90	21.40	13.90	15.72	19.90	18.93
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**22.73**	**25.94**	**21.62**	**17.71**	**18.90**	**18.21**	**17.60**	**17.43**	**21.90**	**14.20**	**16.12**	**20.23**	**19.38**

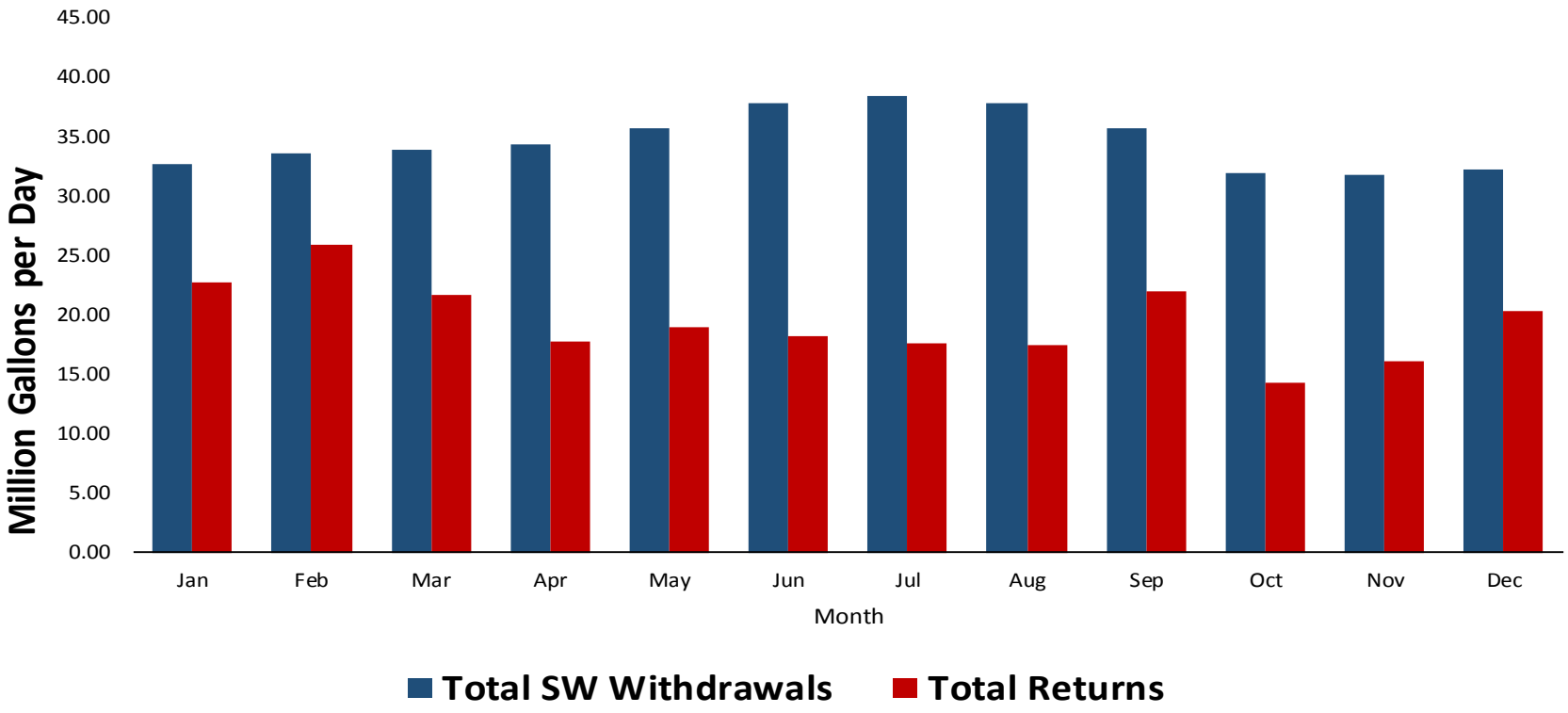
03150203-Middle Alabama

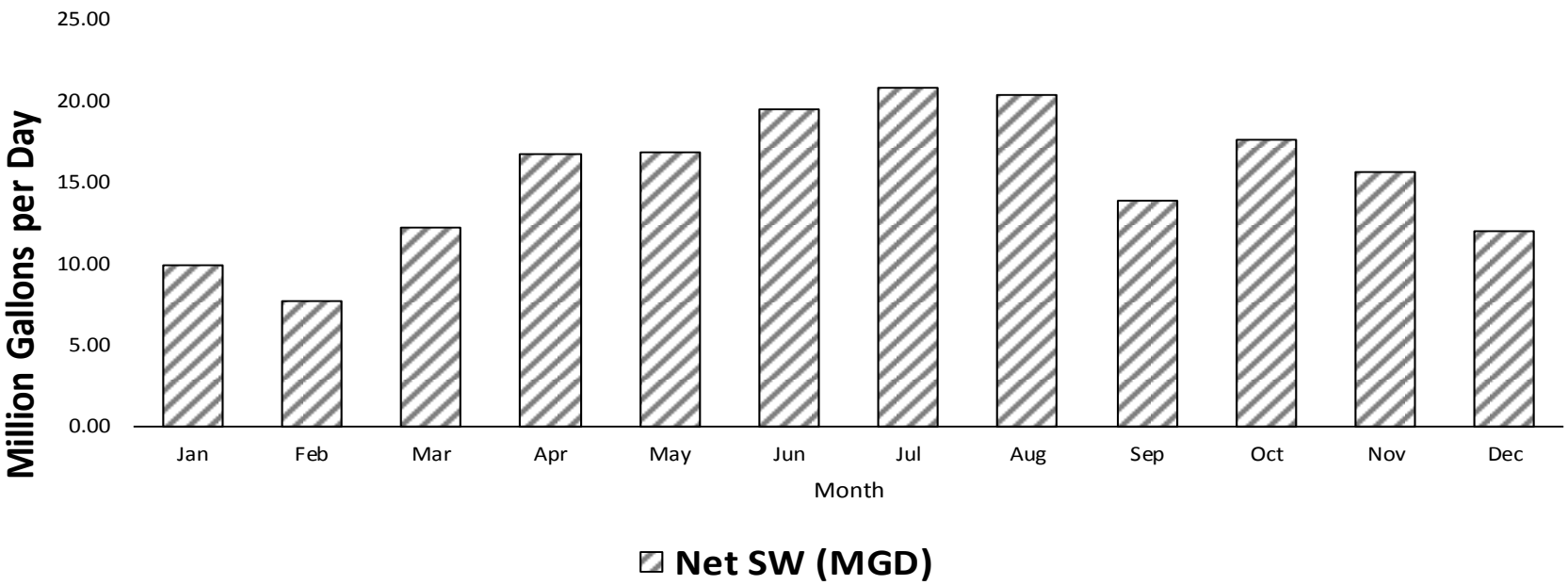
2010 FINAL DATA

Total SW Withdrawals	SW	32.60	33.57	33.83	34.37	35.72	37.72	38.40	37.80	35.73	31.83	31.69	32.16	34.62
Total GW Withdrawals	GW	5.71	5.37	3.93	4.48	4.36	4.80	4.86	4.93	6.36	4.58	4.14	4.12	4.80
Withdrawal Total		38.31	38.94	37.76	38.85	40.08	42.52	43.26	42.73	42.08	36.41	35.83	36.28	39.42
Total Returns		**22.73**	**25.94**	**21.62**	**17.71**	**18.90**	**18.21**	**17.60**	**17.43**	**21.90**	**14.20**	**16.12**	**20.23**	**19.38**
Net SW (MGD)	SW	**9.86**	**7.64**	**12.20**	**16.67**	**16.82**	**19.51**	**20.79**	**20.37**	**13.83**	**17.63**	**15.57**	**11.93**	**15.23**

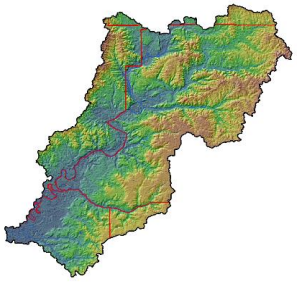
03150203-Middle Alabama

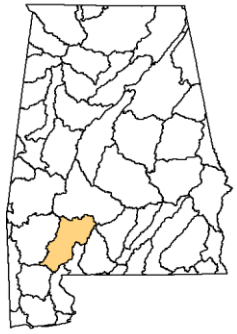
2010 FINAL DATA





03150204-Lower Alabama





Area in AL (Square Miles)	1,450.0
Estimated Population (2010)*	24,882

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Alabama

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	2.81	2.44	2.41	2.66	2.58	2.87	2.68	2.73	2.58	2.54	2.29	2.35	2.58
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.16	0.18	0.15	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16
Industrial/Mining	SW	44.57	46.67	33.47	47.19	43.89	48.59	51.22	54.42	53.42	47.52	43.92	42.32	46.43
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.72	0.85	1.61	3.67	4.07	5.11	5.87	4.85	5.11	4.10	1.80	0.95	3.23
Agriculture	SW	0.19	0.22	0.35	0.74	0.90	1.18	1.35	1.12	1.11	0.85	0.38	0.22	0.72
Total	**SW**	**44.76**	**46.89**	**33.82**	**47.93**	**44.79**	**49.77**	**52.57**	**55.55**	**54.53**	**48.36**	**44.30**	**42.54**	**47.15**
Total	**GW**	**3.69**	**3.47**	**4.17**	**6.48**	**6.81**	**8.13**	**8.70**	**7.73**	**7.84**	**6.79**	**4.24**	**3.46**	**5.96**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.20	1.40	1.29	0.98	1.27	1.10	1.11	0.96	1.17	1.07	0.87	0.57	1.08
Industrial/Mining		47.04	50.76	45.88	45.01	44.38	48.23	50.14	57.66	56.45	53.02	49.51	50.01	49.84
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**48.24**	**52.16**	**47.16**	**45.99**	**45.65**	**49.33**	**51.25**	**58.62**	**57.62**	**54.09**	**50.38**	**50.58**	**50.92**

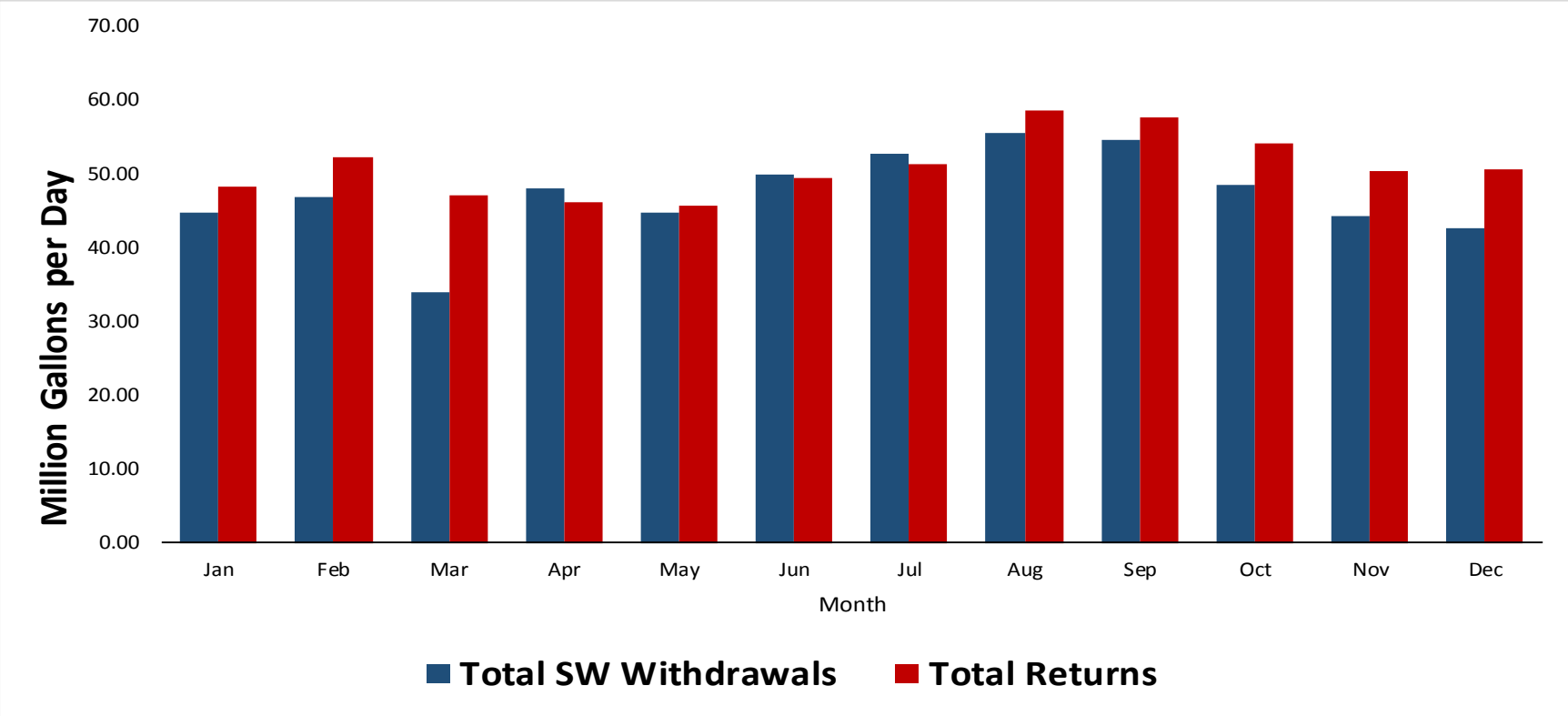
03150204-Lower Alabama

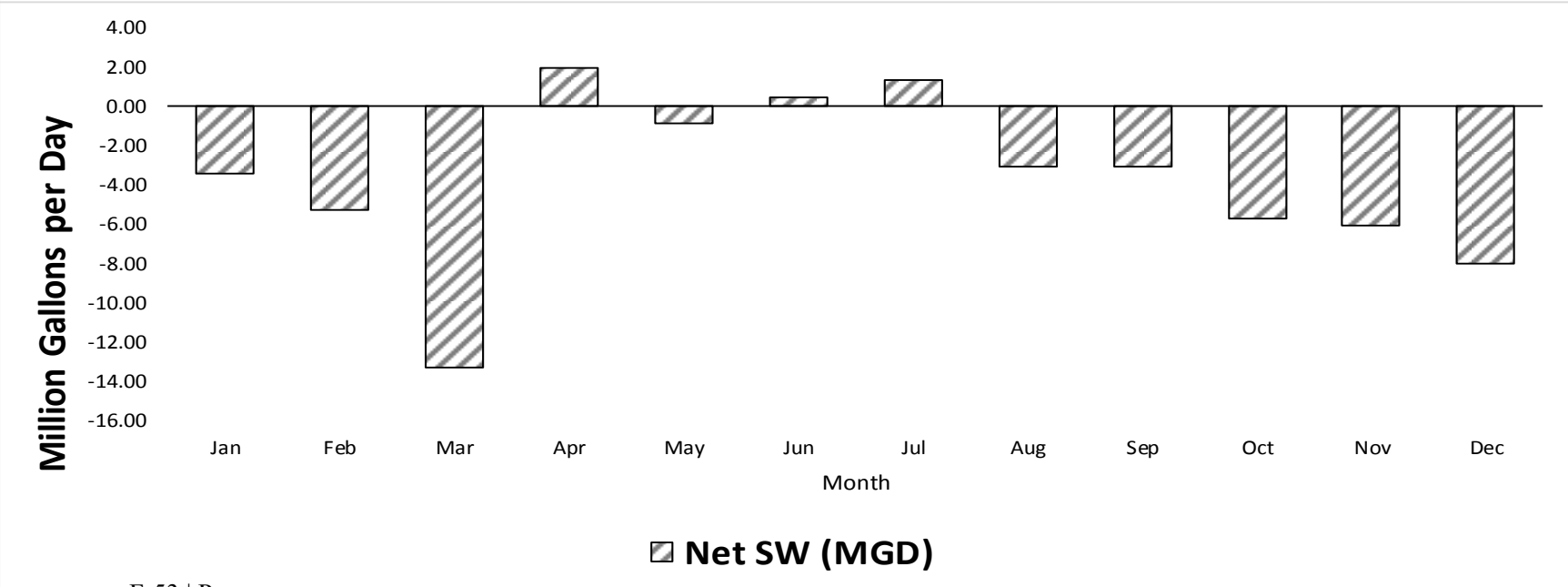
2010 FINAL DATA

Total SW Withdrawals	SW	44.76	46.89	33.82	47.93	44.79	49.77	52.57	55.55	54.53	48.36	44.30	42.54	47.15
Total GW Withdrawals	GW	3.69	3.47	4.17	6.48	6.81	8.13	8.70	7.73	7.84	6.79	4.24	3.46	5.96
Withdrawal Total		48.46	50.36	37.98	54.41	51.60	57.90	61.26	63.27	62.36	55.16	48.54	46.00	53.11
Total Returns		**48.24**	**52.16**	**47.16**	**45.99**	**45.65**	**49.33**	**51.25**	**58.62**	**57.62**	**54.09**	**50.38**	**50.58**	**50.92**
Net SW (MGD)	SW	**-3.48**	**-5.27**	**-13.35**	**1.94**	**-0.86**	**0.45**	**1.32**	**-3.08**	**-3.09**	**-5.73**	**-6.08**	**-8.04**	**-3.77**

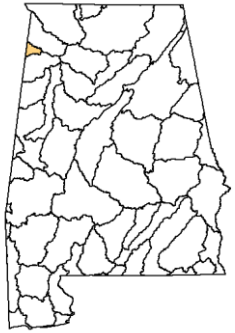
03150204-Lower Alabama

2010 FINAL DATA





03160101-Upper Tombigbee



Area in AL (Square Miles) 124.9

Estimated Population (2010)* 2,710

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining	SW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.05	0.05	0.05	0.06	0.07	0.09	0.09	0.08	0.06	0.06	0.05	0.05	0.06
Agriculture	SW	0.07	0.07	0.08	0.10	0.11	0.12	0.13	0.12	0.11	0.10	0.08	0.07	0.10
Total	**SW**	**0.09**	**0.09**	**0.09**	**0.12**	**0.12**	**0.14**	**0.15**	**0.13**	**0.13**	**0.12**	**0.10**	**0.09**	**0.11**
Total	**GW**	**0.20**	**0.20**	**0.20**	**0.21**	**0.22**	**0.23**	**0.24**	**0.23**	**0.21**	**0.20**	**0.20**	**0.20**	**0.21**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

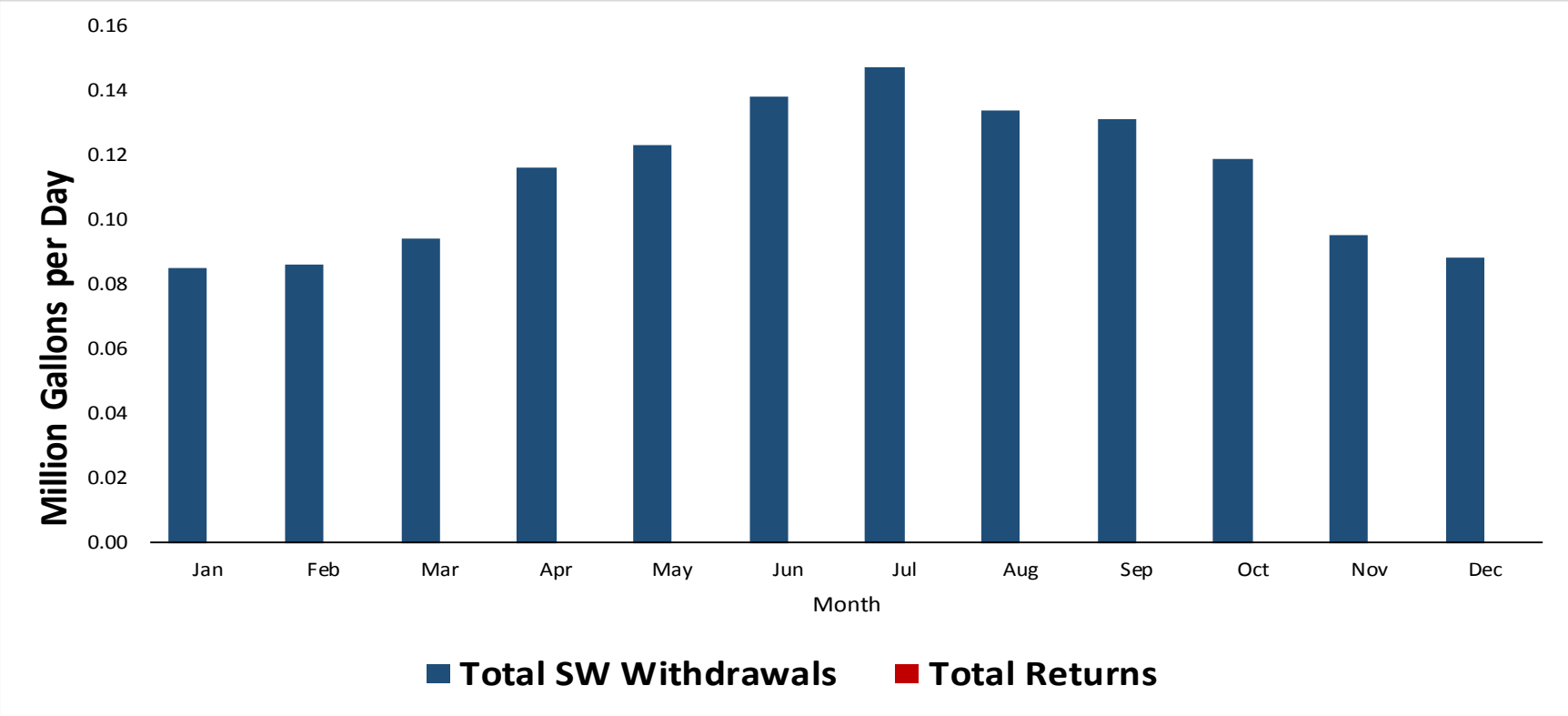
03160101-Upper Tombigbee

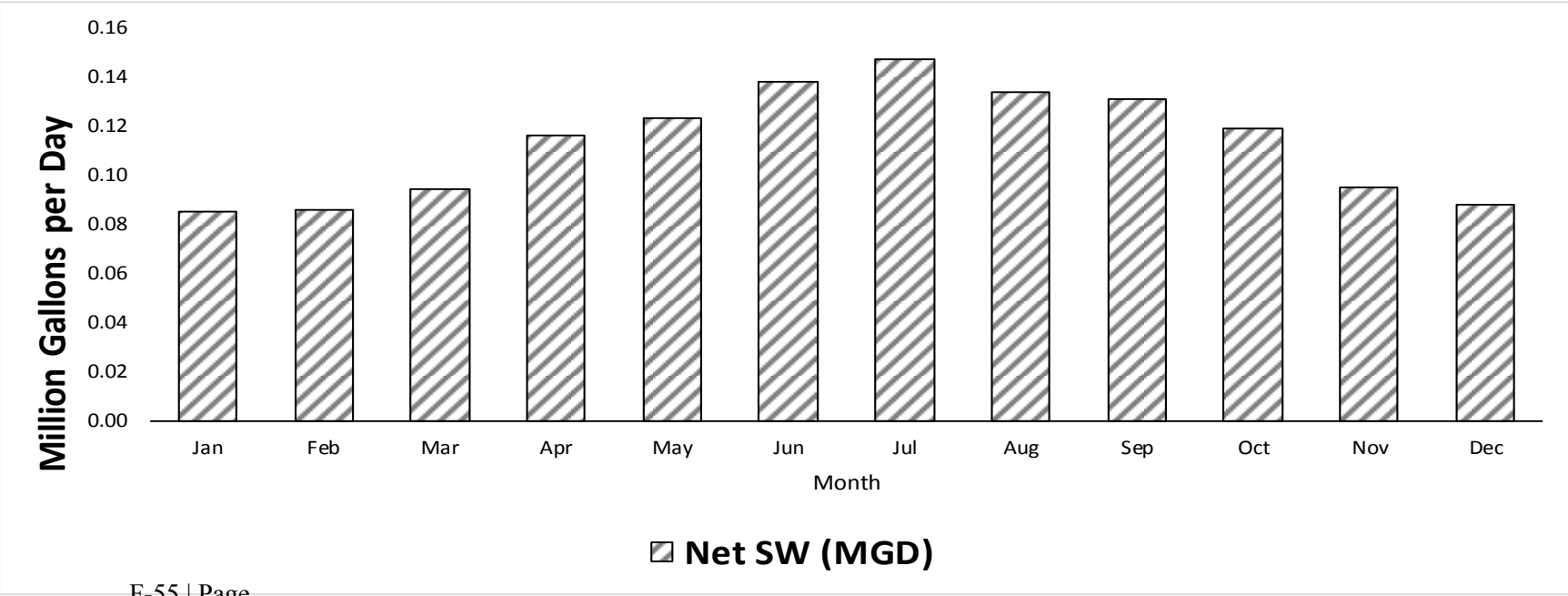
2010 FINAL DATA

Total SW Withdrawals	SW	0.09	0.09	0.09	0.12	0.12	0.14	0.15	0.13	0.13	0.12	0.10	0.09	0.11
Total GW Withdrawals	GW	0.20	0.20	0.20	0.21	0.22	0.23	0.24	0.23	0.21	0.20	0.20	0.20	0.21
Withdrawal Total		0.28	0.29	0.29	0.32	0.34	0.37	0.39	0.36	0.34	0.32	0.29	0.29	0.32
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.09**	**0.09**	**0.09**	**0.12**	**0.12**	**0.14**	**0.15**	**0.13**	**0.13**	**0.12**	**0.10**	**0.09**	**0.11**

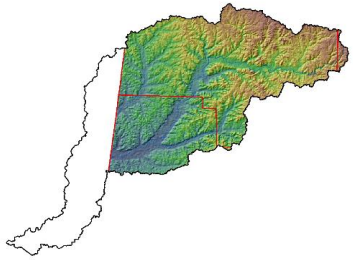
03160101-Upper Tombigbee

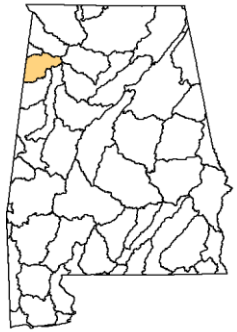
2010 FINAL DATA





03160103-Buttahatchee





Area in AL (Square Miles)	666.4
Estimated Population (2010)*	23,399

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.26	1.07	1.10	1.09	1.14	1.28	1.22	1.19	1.14	1.11	1.14	1.18	1.16
Public Supply	SW	2.25	1.97	1.85	1.75	1.78	2.01	2.07	2.02	1.98	1.96	1.87	2.09	1.97
Industrial/Mining	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining	SW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.14	0.15	0.16	0.19	0.27	0.40	0.43	0.34	0.23	0.18	0.15	0.14	0.23
Agriculture	SW	0.18	0.19	0.21	0.30	0.36	0.44	0.49	0.45	0.45	0.35	0.22	0.18	0.32
Total	**SW**	**2.48**	**2.20**	**2.10**	**2.09**	**2.19**	**2.49**	**2.59**	**2.51**	**2.46**	**2.35**	**2.13**	**2.31**	**2.32**
Total	**GW**	**1.42**	**1.24**	**1.27**	**1.31**	**1.43**	**1.69**	**1.67**	**1.55**	**1.39**	**1.32**	**1.30**	**1.33**	**1.41**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.10	2.23	1.92	1.71	1.98	1.48	0.95	1.04	1.23	1.07	0.94	1.27	1.49
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**2.10**	**2.23**	**1.92**	**1.71**	**1.98**	**1.48**	**0.95**	**1.04**	**1.23**	**1.07**	**0.94**	**1.27**	**1.49**

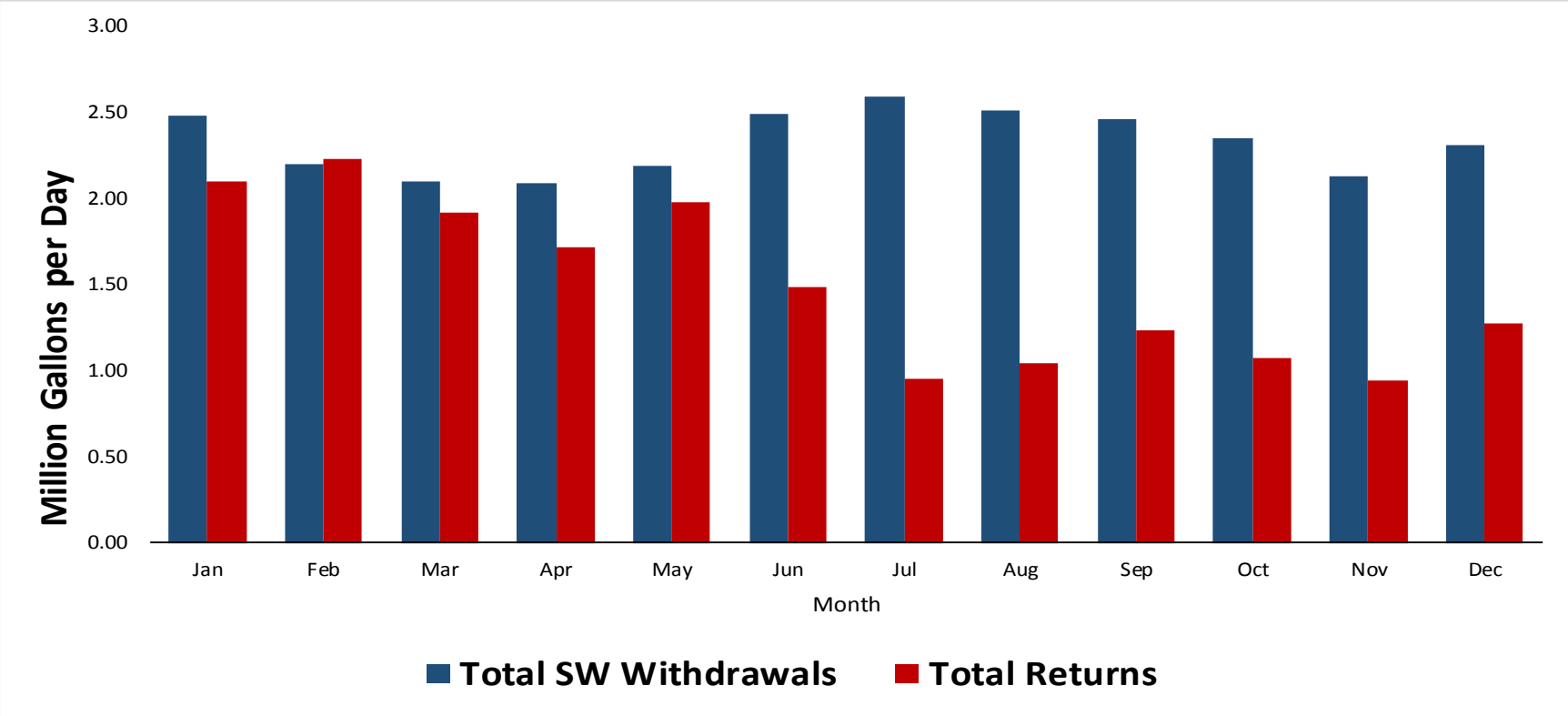
03160103-Buttahatchee

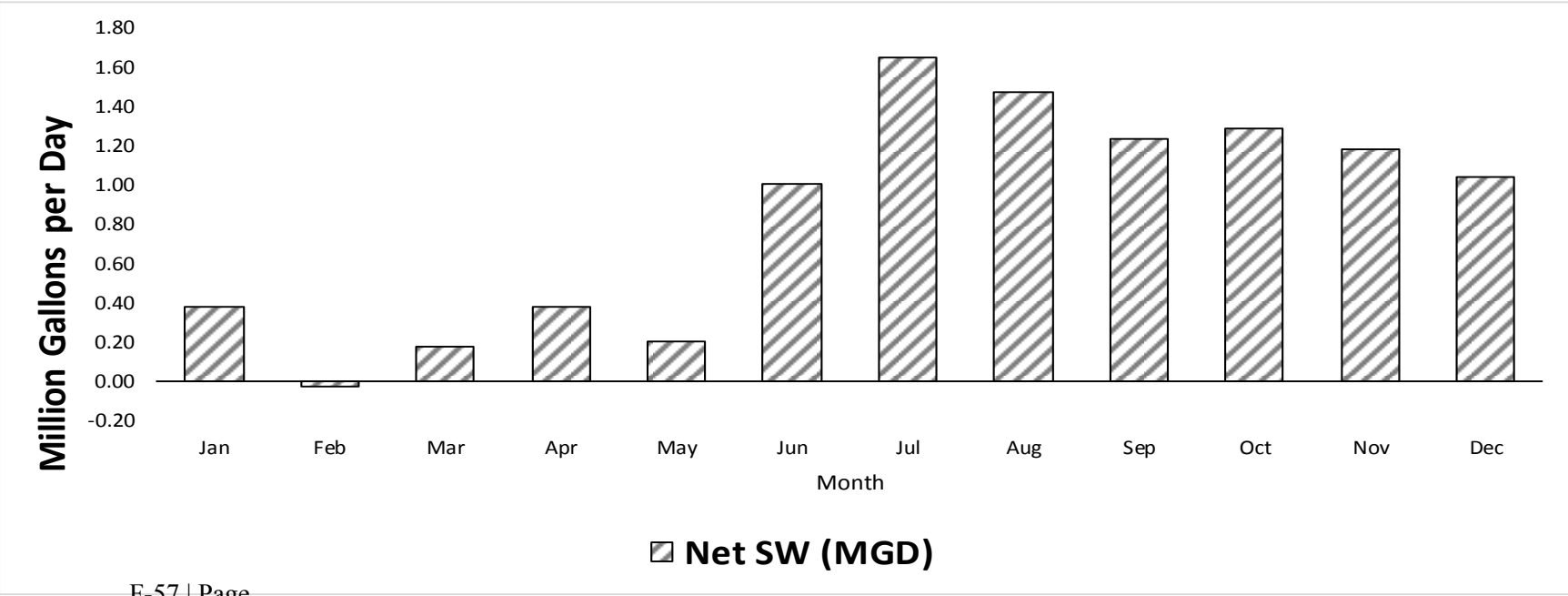
2010 FINAL DATA

Total SW Withdrawals	SW	2.48	2.20	2.10	2.09	2.19	2.49	2.59	2.51	2.46	2.35	2.13	2.31	2.32
Total GW Withdrawals	GW	1.42	1.24	1.27	1.31	1.43	1.69	1.67	1.55	1.39	1.32	1.30	1.33	1.41
Withdrawal Total		3.89	3.44	3.37	3.40	3.62	4.18	4.26	4.06	3.85	3.67	3.43	3.64	3.73
Total Returns		**2.10**	**2.23**	**1.92**	**1.71**	**1.98**	**1.48**	**0.95**	**1.04**	**1.23**	**1.07**	**0.94**	**1.27**	**1.49**
Net SW (MGD)	SW	**0.38**	**-0.03**	**0.18**	**0.38**	**0.21**	**1.01**	**1.65**	**1.47**	**1.24**	**1.29**	**1.18**	**1.04**	**0.83**

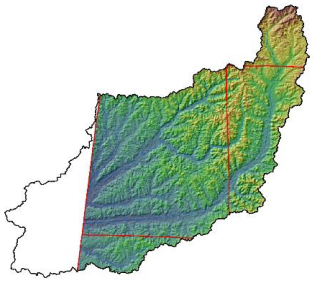
03160103-Buttahatchee

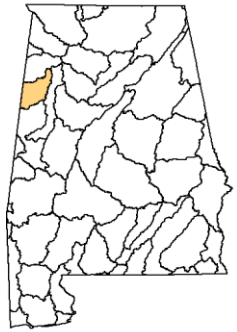
2010 FINAL DATA





03160105-Luxapallila





Area in AL (Square Miles) 661.7

Estimated Population (2010)* 21,311

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	2.13	1.94	1.87	1.87	1.94	1.95	2.10	2.24	1.97	1.90	1.83	1.94	1.97
Public Supply	SW	1.97	1.82	1.77	1.86	1.83	1.98	1.95	2.06	2.04	1.91	1.74	1.83	1.90
Industrial/Mining	GW	0.00	0.03	0.00	0.00	0.00	0.40	0.35	0.29	0.22	0.00	0.00	0.00	0.11
Industrial/Mining	SW	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.08	0.08	0.09	0.09	0.10	0.12	0.12	0.11	0.10	0.09	0.09	0.08	0.10
Agriculture	SW	0.11	0.13	0.16	0.29	0.42	0.60	0.68	0.56	0.48	0.34	0.16	0.12	0.34
Total	**SW**	**2.36**	**2.23**	**2.20**	**2.43**	**2.53**	**2.86**	**2.91**	**2.90**	**2.80**	**2.53**	**2.18**	**2.22**	**2.51**
Total	**GW**	**2.22**	**2.05**	**1.96**	**1.96**	**2.05**	**2.47**	**2.57**	**2.63**	**2.29**	**2.00**	**1.92**	**2.03**	**2.18**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		1.17	1.18	1.27	0.94	1.10	0.64	0.50	0.53	0.40	0.40	0.64	0.97	0.81
Industrial/Mining		0.05	0.21	1.27	0.53	0.77	1.75	2.05	8.74	5.68	0.04	0.73	0.23	1.84
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.23**	**1.39**	**2.54**	**1.48**	**1.87**	**2.39**	**2.55**	**9.27**	**6.09**	**0.44**	**1.37**	**1.19**	**2.65**

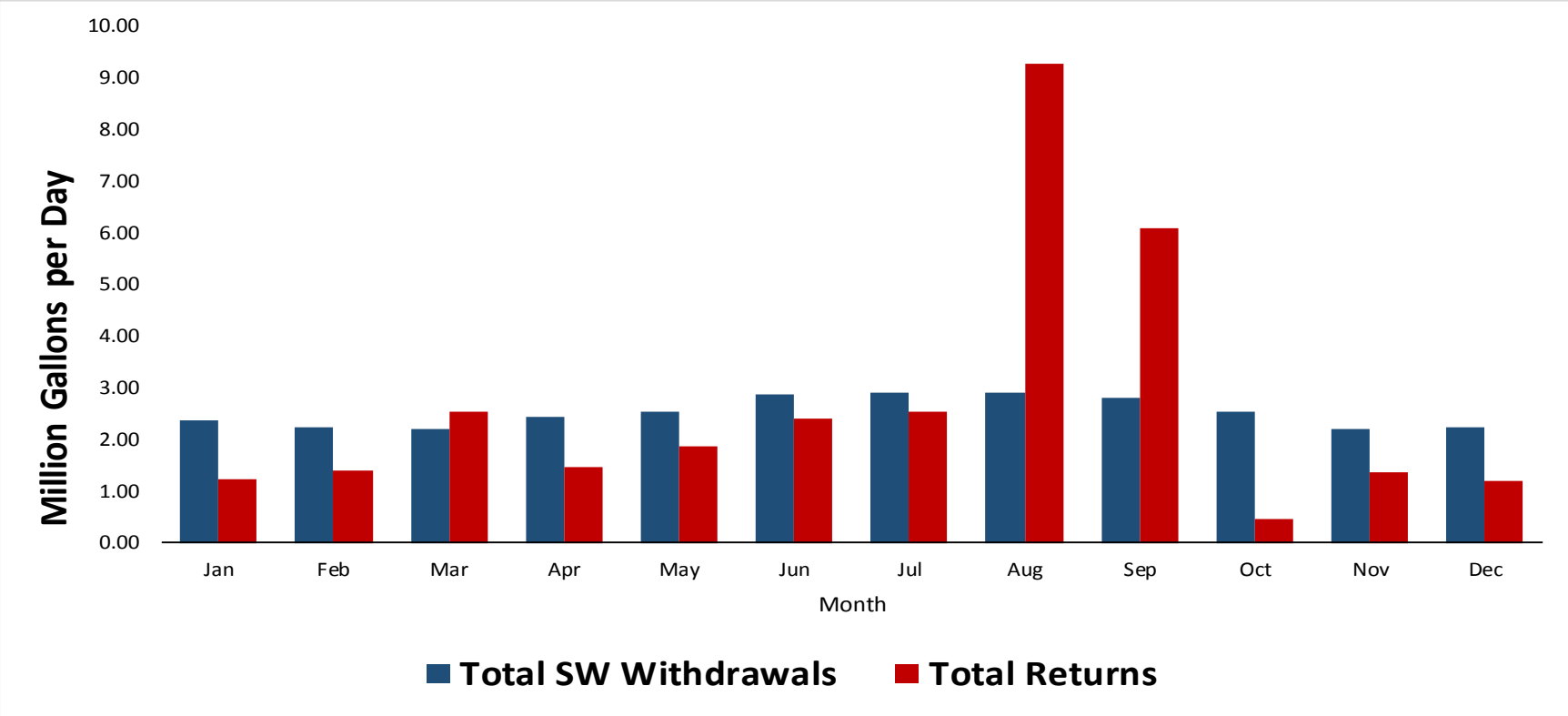
03160105-Luxapallila

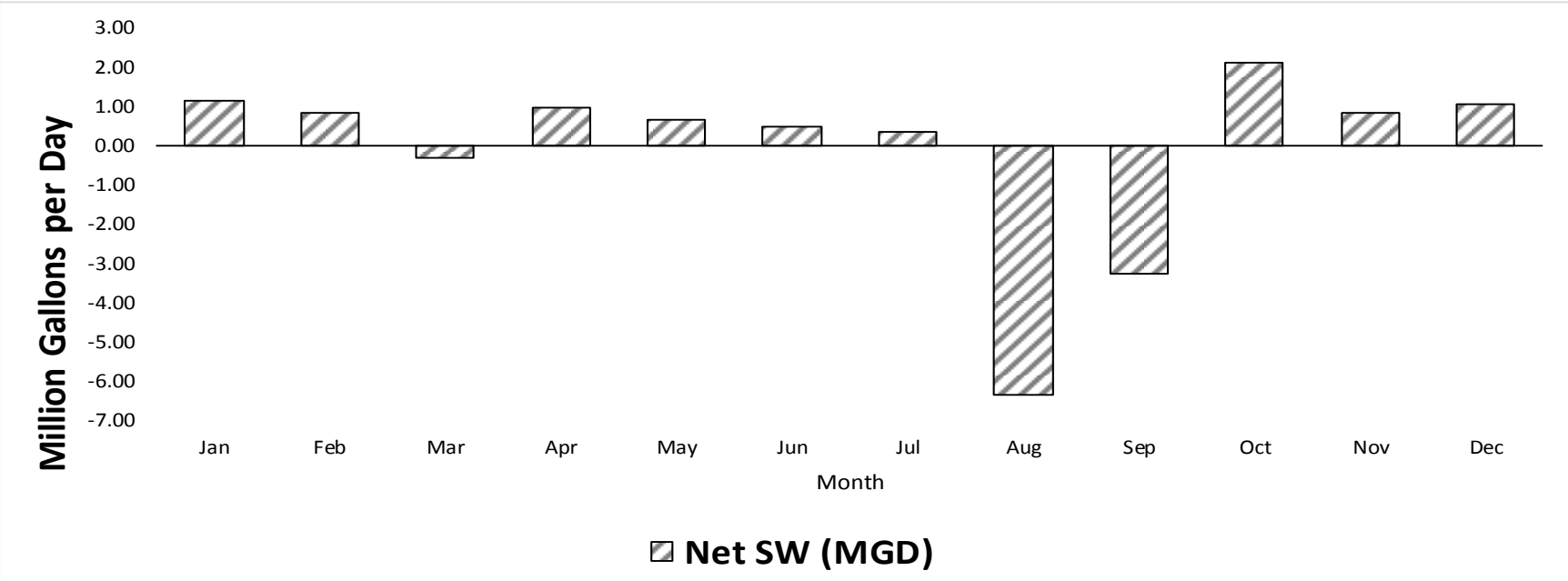
2010 FINAL DATA

Total SW Withdrawals	SW	2.36	2.23	2.20	2.43	2.53	2.86	2.91	2.90	2.80	2.53	2.18	2.22	2.51
Total GW Withdrawals	GW	2.22	2.05	1.96	1.96	2.05	2.47	2.57	2.63	2.29	2.00	1.92	2.03	2.18
Withdrawal Total		4.58	4.28	4.16	4.39	4.57	5.32	5.48	5.53	5.09	4.53	4.10	4.25	4.69
Total Returns		**1.23**	**1.39**	**2.54**	**1.48**	**1.87**	**2.39**	**2.55**	**9.27**	**6.09**	**0.44**	**1.37**	**1.19**	**2.65**
Net SW (MGD)	SW	**1.13**	**0.84**	**-0.34**	**0.95**	**0.66**	**0.47**	**0.36**	**-6.38**	**-3.29**	**2.09**	**0.81**	**1.03**	**-0.14**

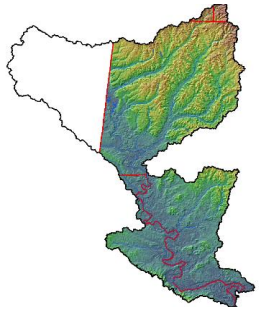
03160105-Luxapallila

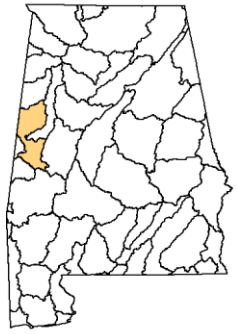
2010 FINAL DATA





03160106-Middle Tombigbee-Lubbub





Area in AL (Square Miles)	1,272.0
Estimated Population (2010)*	23,667

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.43	4.42	4.90	4.94	5.08	5.23	5.61	5.26	5.32	5.38	4.87	5.05	5.12
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Industrial/Mining	SW	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.34	0.35	0.38	0.45	0.54	0.69	0.73	0.62	0.52	0.45	0.37	0.35	0.48
Agriculture	SW	10.30	10.33	10.45	10.82	11.09	11.53	11.71	11.39	11.19	10.90	10.46	10.32	10.87
Total	**SW**	**10.39**	**10.43**	**10.54**	**10.92**	**11.18**	**11.62**	**11.81**	**11.49**	**11.29**	**10.99**	**10.55**	**10.42**	**10.97**
Total	**GW**	**5.94**	**4.94**	**5.45**	**5.56**	**5.78**	**6.08**	**6.51**	**6.05**	**6.00**	**6.00**	**5.40**	**5.56**	**5.77**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.42	1.56	1.73	1.01	0.62	0.44	0.30	0.40	0.60	0.28	0.61	0.61	0.80
Industrial/Mining		0.33	0.36	0.59	0.49	0.28	0.36	0.28	0.28	0.28	0.33	0.33	0.23	0.34
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.75**	**1.92**	**2.32**	**1.50**	**0.90**	**0.80**	**0.58**	**0.68**	**0.88**	**0.60**	**0.94**	**0.84**	**1.14**

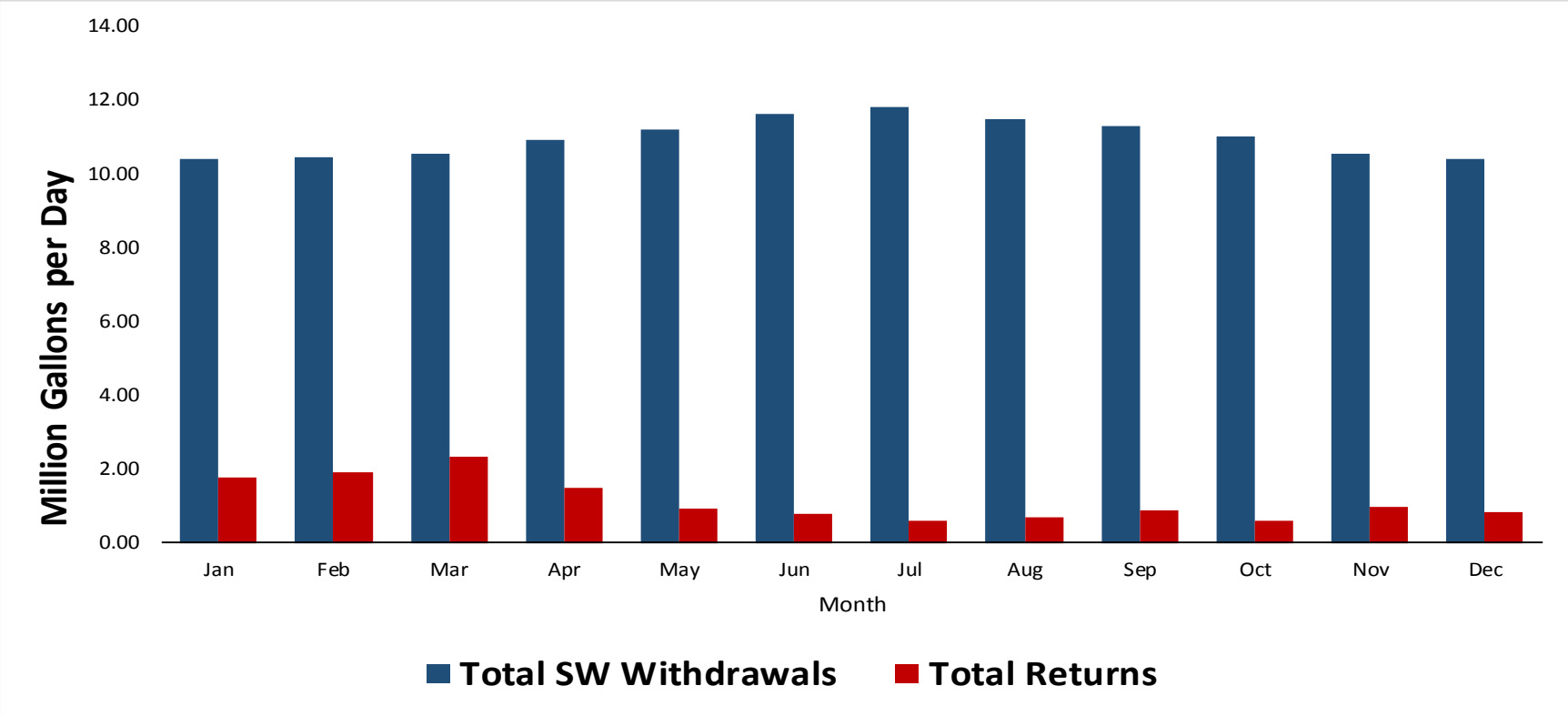
03160106-Middle Tombigbee-Lubbub

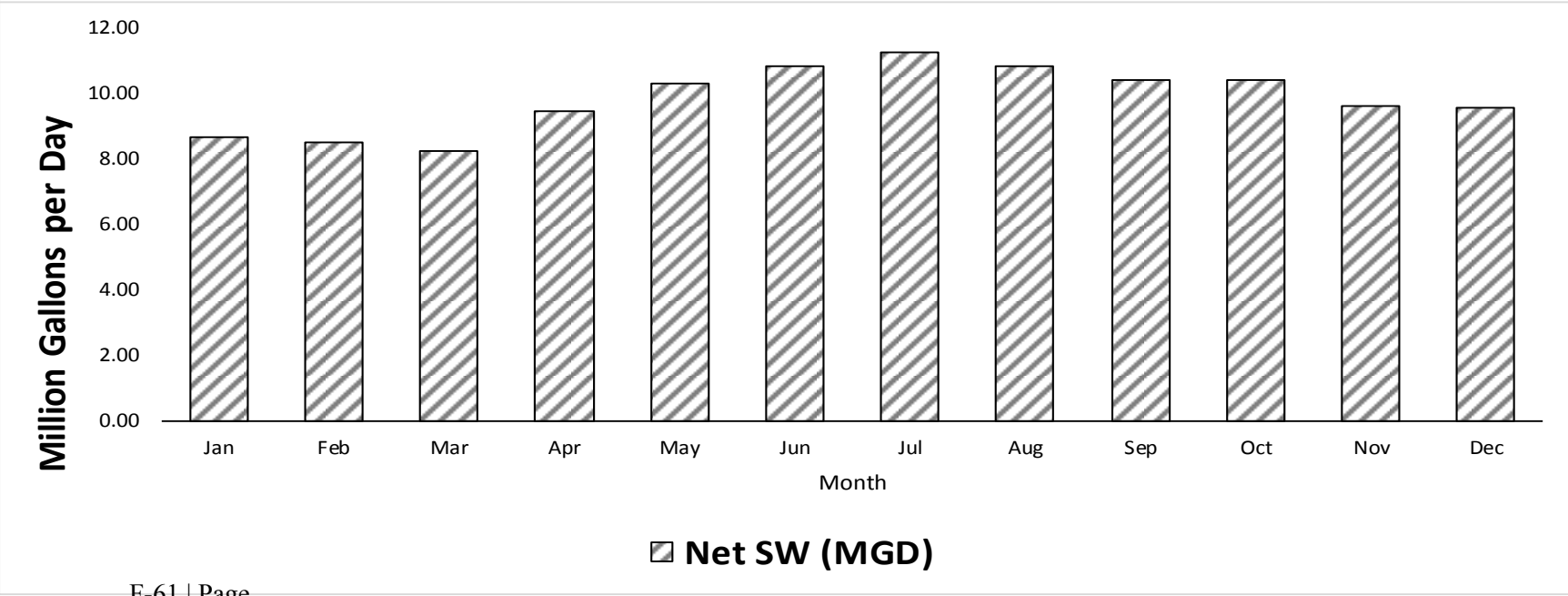
2010 FINAL DATA

Total SW Withdrawals	SW	10.39	10.43	10.54	10.92	11.18	11.62	11.81	11.49	11.29	10.99	10.55	10.42	10.97
Total GW Withdrawals	GW	5.94	4.94	5.45	5.56	5.78	6.08	6.51	6.05	6.00	6.00	5.40	5.56	5.77
Withdrawal Total		16.33	15.37	15.99	16.47	16.97	17.70	18.32	17.53	17.29	16.99	15.96	15.98	16.74
Total Returns		**1.75**	**1.92**	**2.32**	**1.50**	**0.90**	**0.80**	**0.58**	**0.68**	**0.88**	**0.60**	**0.94**	**0.84**	**1.14**
Net SW (MGD)	SW	**8.64**	**8.51**	**8.23**	**9.42**	**10.28**	**10.83**	**11.23**	**10.80**	**10.41**	**10.39**	**9.61**	**9.57**	**9.83**

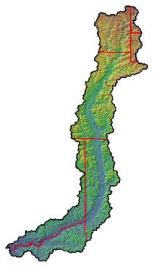
03160106-Middle Tombigbee-Lubbub

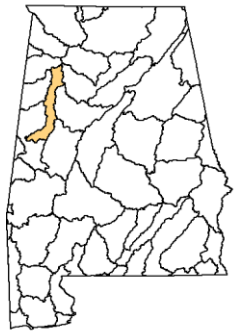
2010 FINAL DATA





03160107-Sipsey





Area in AL (Square Miles) 787.0

Estimated Population (2010)* 23,143

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	1.31	1.25	1.20	1.16	1.22	1.23	1.24	1.24	1.18	1.21	1.20	1.23	1.22
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Industrial/Mining	SW	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.16	0.17	0.21	0.33	0.41	0.54	0.60	0.49	0.42	0.34	0.21	0.17	0.34
Agriculture	SW	0.48	0.51	0.64	1.05	1.24	1.58	1.76	1.50	1.43	1.15	0.67	0.51	1.04
Total	**SW**	**1.08**	**1.11**	**1.24**	**1.65**	**1.84**	**2.18**	**2.36**	**2.10**	**2.03**	**1.75**	**1.27**	**1.11**	**1.64**
Total	**GW**	**1.47**	**1.43**	**1.42**	**1.50**	**1.63**	**1.78**	**1.85**	**1.74**	**1.61**	**1.57**	**1.42**	**1.41**	**1.57**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		1.85	1.95	1.45	1.44	2.15	1.44	1.14	1.04	1.04	1.04	1.25	1.20	1.41
Industrial/Mining		0.00	0.00	0.00	0.05	0.06	0.06	0.00	0.00	0.01	0.01	0.00	0.00	0.02
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.85**	**1.95**	**1.45**	**1.49**	**2.21**	**1.50**	**1.14**	**1.04**	**1.05**	**1.04**	**1.25**	**1.20**	**1.43**

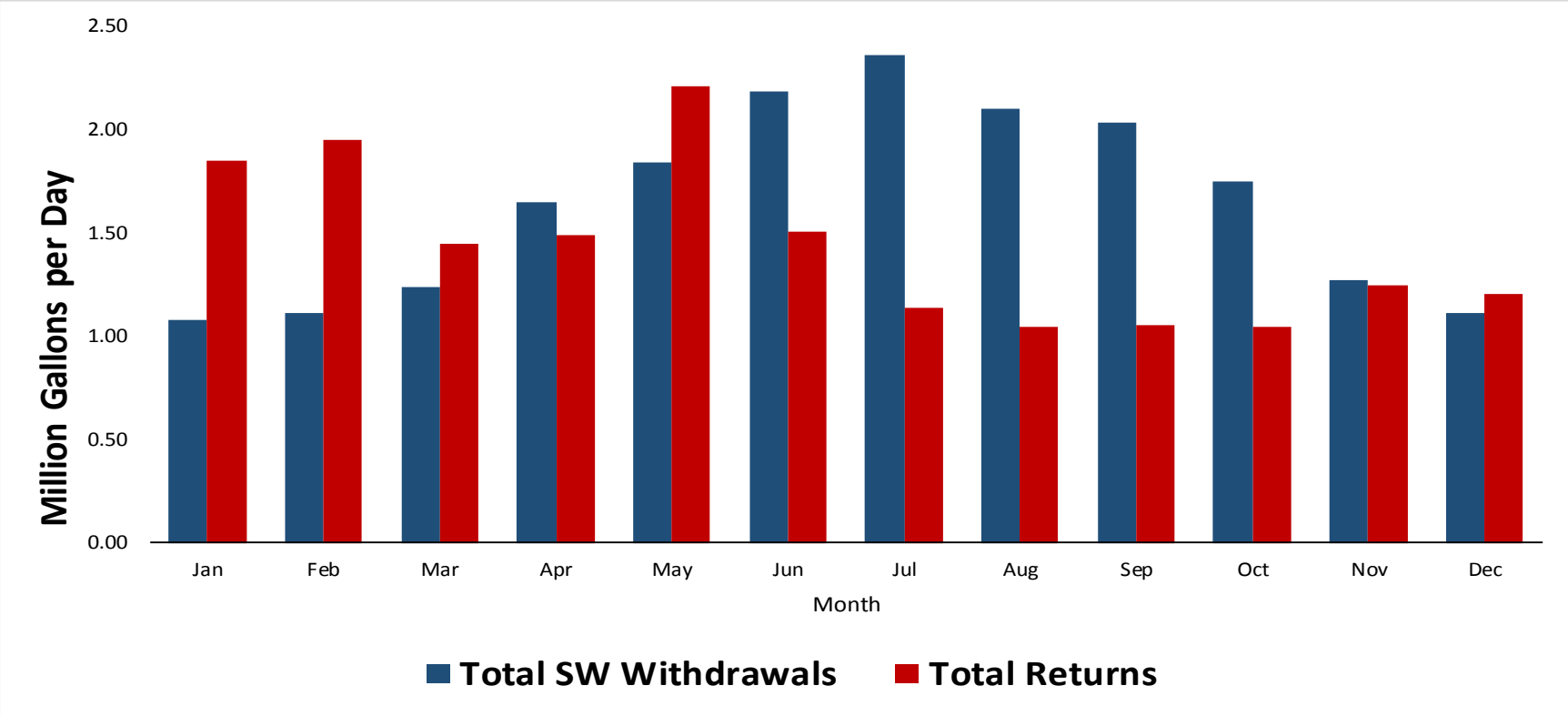
03160107-Sipsey

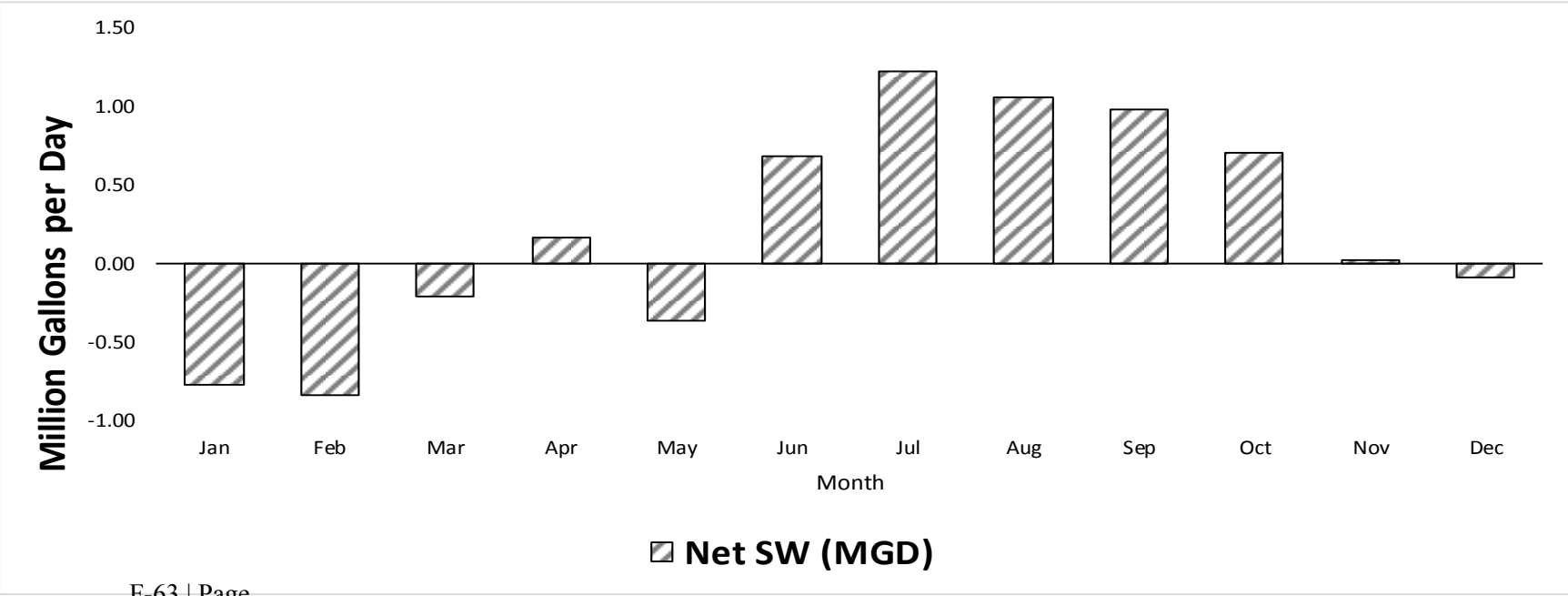
2010 FINAL DATA

Total SW Withdrawals	SW	1.08	1.11	1.24	1.65	1.84	2.18	2.36	2.10	2.03	1.75	1.27	1.11	1.64
Total GW Withdrawals	GW	1.47	1.43	1.42	1.50	1.63	1.78	1.85	1.74	1.61	1.57	1.42	1.41	1.57
Withdrawal Total		2.55	2.53	2.66	3.15	3.48	3.96	4.21	3.83	3.64	3.32	2.69	2.52	3.21
Total Returns		**1.85**	**1.95**	**1.45**	**1.49**	**2.21**	**1.50**	**1.14**	**1.04**	**1.05**	**1.04**	**1.25**	**1.20**	**1.43**
Net SW (MGD)	SW	**-0.77**	**-0.84**	**-0.21**	**0.16**	**-0.36**	**0.68**	**1.22**	**1.06**	**0.98**	**0.71**	**0.02**	**-0.09**	**0.21**

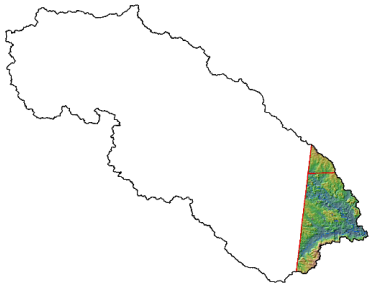
03160107-Sipsey

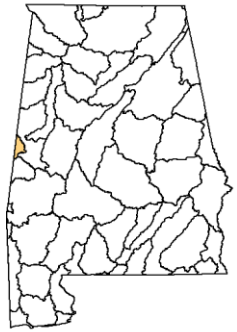
2010 FINAL DATA





03160108-Noxubee





Area in AL (Square Miles)	139.0
Estimated Population (2010)*	1,326

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Industrial/Mining	SW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.02	0.02	0.03	0.04	0.06	0.09	0.10	0.08	0.05	0.03	0.02	0.02	0.05
Agriculture	SW	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.03	1.04
Total	**SW**	**1.08**	**1.08**	**1.09**	**1.09**	**1.09**	**1.10**	**1.10**	**1.10**	**1.10**	**1.09**	**1.09**	**1.08**	**1.09**
Total	**GW**	**0.15**	**0.15**	**0.16**	**0.17**	**0.19**	**0.22**	**0.23**	**0.21**	**0.18**	**0.16**	**0.15**	**0.15**	**0.18**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		4.34	13.51	11.18	5.47	1.10	1.65	0.00	0.00	0.00	0.00	0.00	0.00	3.10
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.34**	**13.51**	**11.18**	**5.47**	**1.10**	**1.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.10**

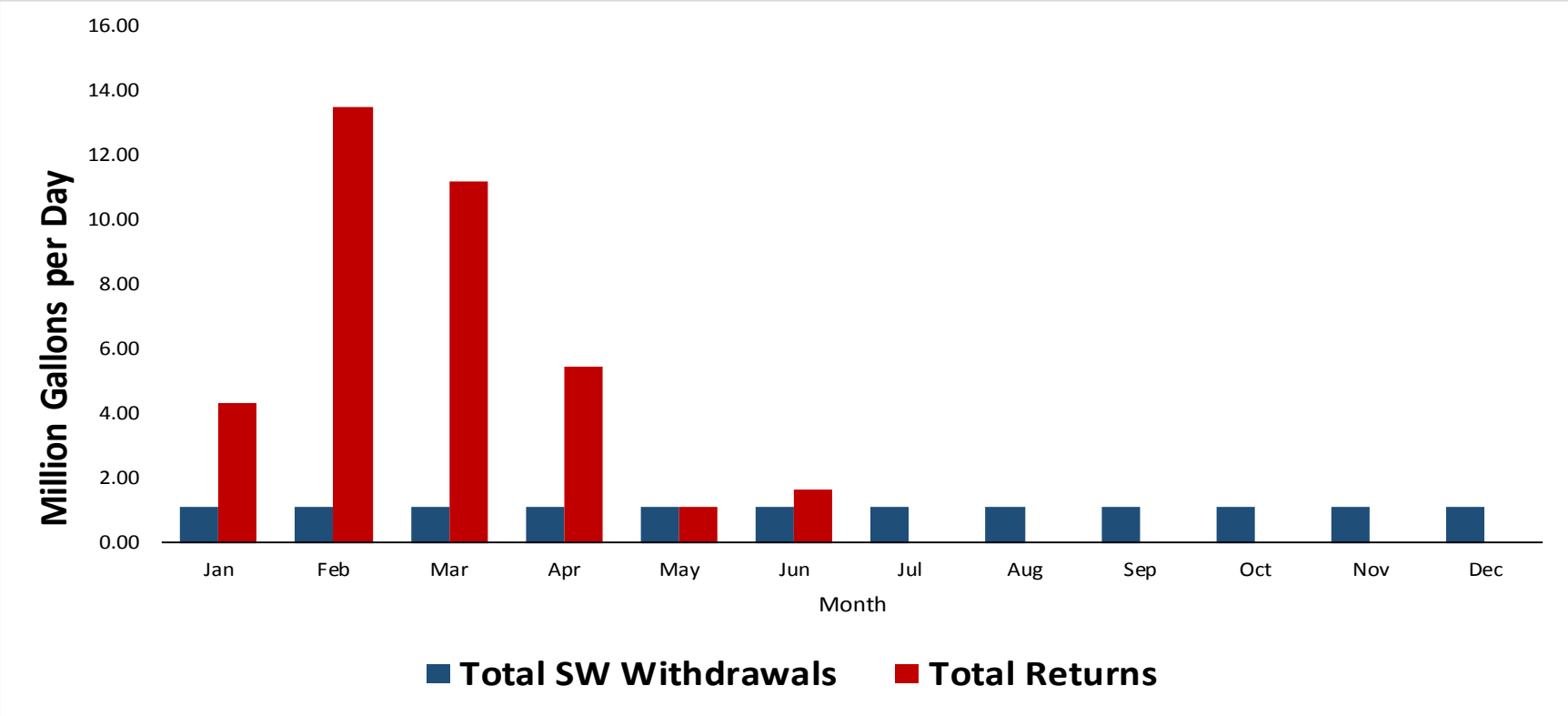
03160108-Noxubee

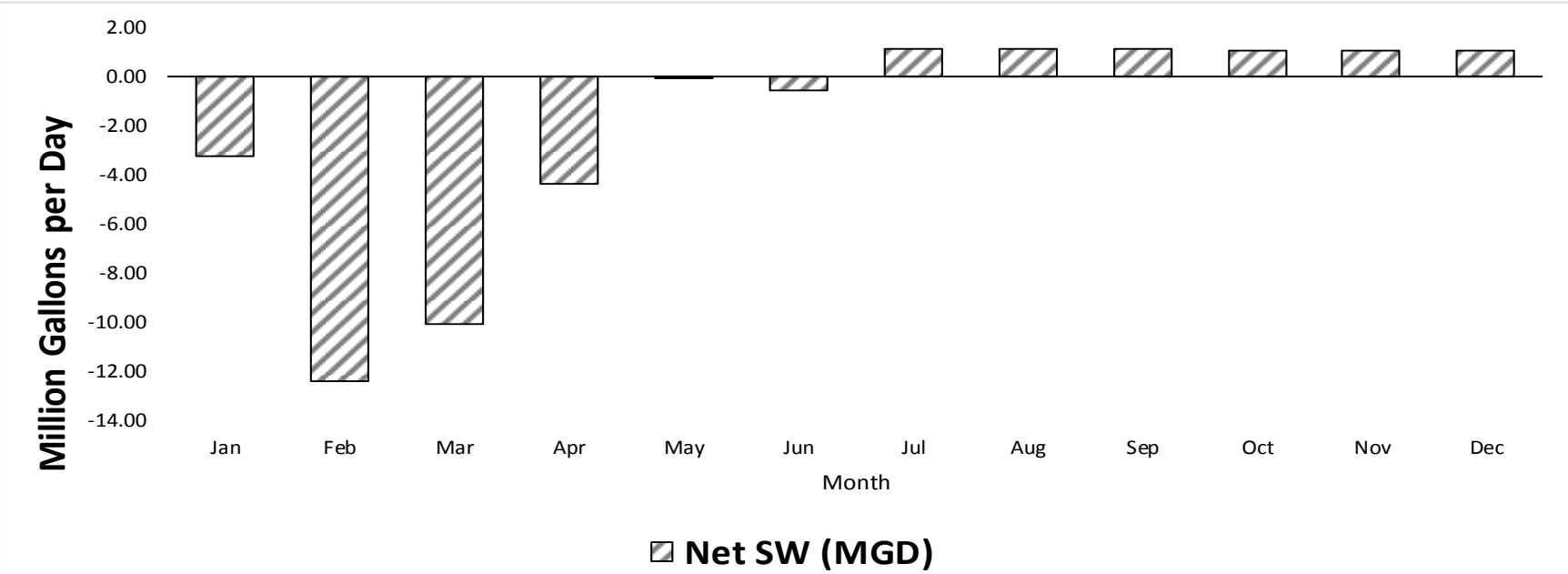
2010 FINAL DATA

Total SW Withdrawals	SW	1.08	1.08	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.09	1.09	1.08	1.09
Total GW Withdrawals	GW	0.15	0.15	0.16	0.17	0.19	0.22	0.23	0.21	0.18	0.16	0.15	0.15	0.18
Withdrawal Total		1.23	1.24	1.24	1.26	1.28	1.32	1.33	1.30	1.27	1.25	1.24	1.23	1.27
Total Returns		**4.34**	**13.51**	**11.18**	**5.47**	**1.10**	**1.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.10**
Net SW (MGD)	SW	**-3.26**	**-12.43**	**-10.09**	**-4.38**	**-0.01**	**-0.55**	**1.10**	**1.10**	**1.10**	**1.09**	**1.09**	**1.08**	**-2.01**

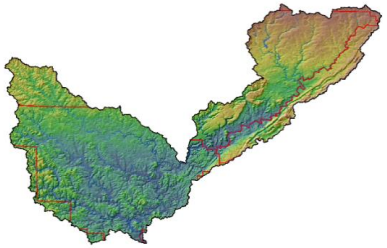
03160108-Noxubee

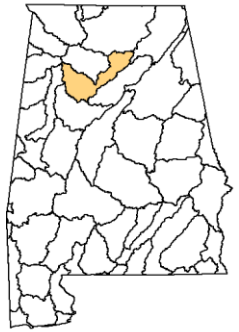
2010 FINAL DATA





03160109-Mulberry Fork





Area in AL (Square Miles)	1,371.0
Estimated Population (2010)*	125,906

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.67	1.60	1.67	1.58	1.59	1.64	1.65	1.70	1.62	1.50	1.33	1.68	1.60
Public Supply	SW	61.90	53.37	45.42	52.20	55.00	58.74	59.27	50.75	42.36	40.51	41.83	26.06	48.95
Industrial/Mining	GW	0.16	0.16	0.16	0.16	0.16	0.16	2.73	0.16	2.73	0.16	0.16	0.16	0.58
Industrial/Mining	SW	2.34	2.12	2.05	2.22	2.20	2.31	2.21	2.23	2.36	2.42	2.22	2.13	2.23
Thermoelectric	SW	905.60	1014.48	1034.37	984.20	788.61	1069.48	1054.52	1063.34	1017.50	616.77	588.77	936.18	922.82
Agriculture	GW	0.86	0.90	0.98	1.26	1.52	1.97	2.13	1.78	1.48	1.26	0.97	0.88	1.33
Agriculture	SW	0.97	1.00	1.07	1.55	1.85	2.33	2.55	2.29	2.14	1.69	1.11	0.98	1.63
Total	**SW**	**970.80**	**1070.98**	**1082.91**	**1040.17**	**847.65**	**1132.86**	**1118.55**	**1118.61**	**1064.35**	**661.40**	**633.94**	**965.35**	**975.63**
Total	**GW**	**2.68**	**2.65**	**2.80**	**3.00**	**3.26**	**3.76**	**6.51**	**3.64**	**5.82**	**2.91**	**2.45**	**2.71**	**3.52**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		14.86	17.24	17.48	11.88	14.24	9.88	7.67	7.56	6.43	6.20	7.22	8.95	10.80
Industrial/Mining		0.99	0.84	0.80	0.79	1.42	0.83	0.96	0.89	0.94	0.87	0.82	0.73	0.91
Thermoelectric		850.72	961.17	993.91	928.41	748.08	1008.12	988.97	977.13	952.30	556.58	553.87	895.13	867.87
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**866.57**	**979.26**	**1012.18**	**941.08**	**763.75**	**1018.83**	**997.59**	**985.58**	**959.68**	**563.66**	**561.91**	**904.81**	**879.57**

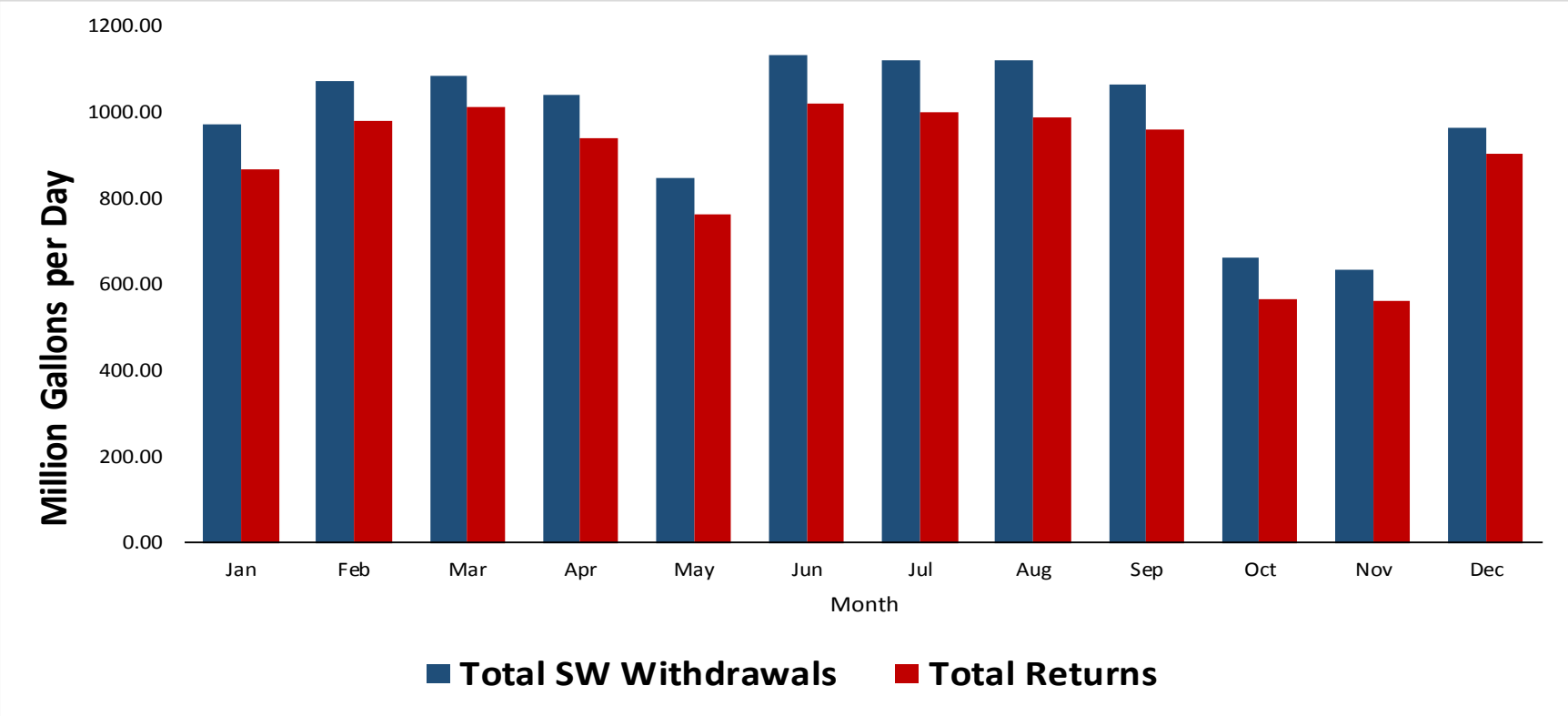
03160109-Mulberry Fork

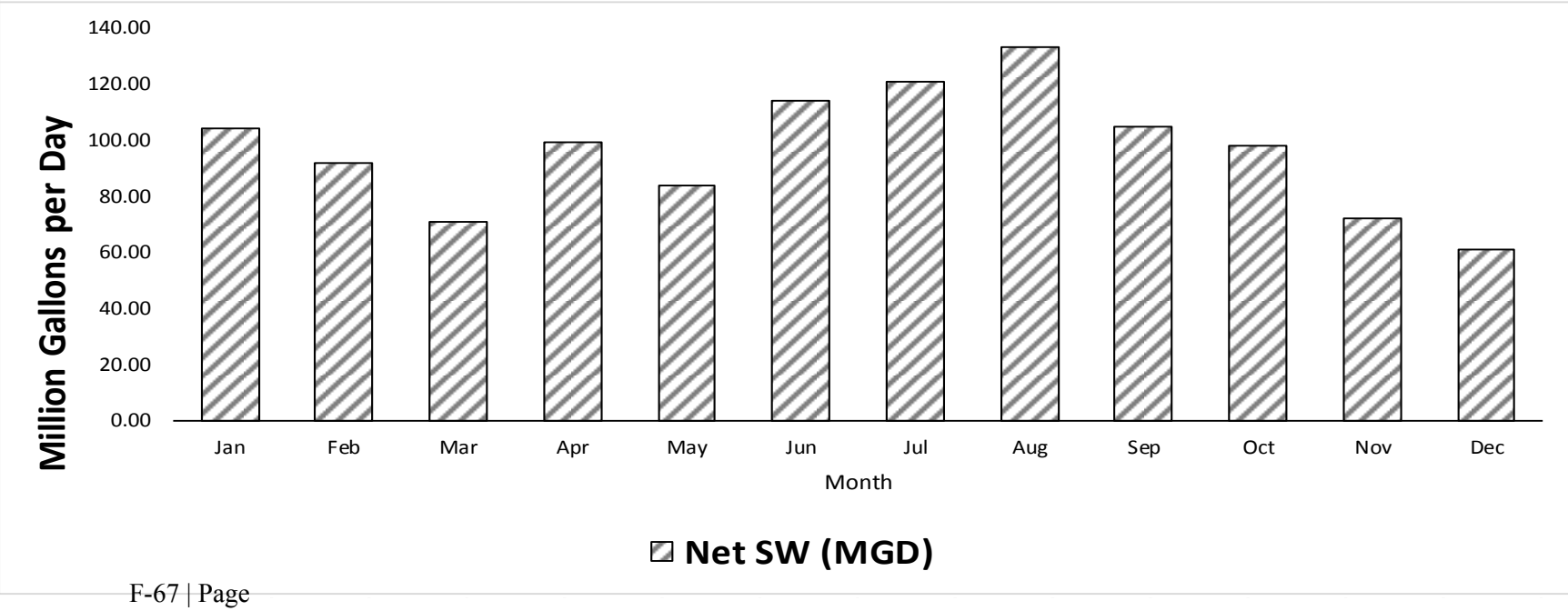
2010 FINAL DATA

Total SW Withdrawals	SW	970.80	1070.98	1082.91	1040.17	847.65	1132.86	1118.55	1118.61	1064.35	661.40	633.94	965.35	975.63
Total GW Withdrawals	GW	2.68	2.65	2.80	3.00	3.26	3.76	6.51	3.64	5.82	2.91	2.45	2.71	3.52
Withdrawal Total		973.48	1073.63	1085.71	1043.17	850.91	1136.62	1125.06	1122.25	1070.17	664.31	636.39	968.07	979.15
Total Returns		**866.57**	**979.26**	**1012.18**	**941.08**	**763.75**	**1018.83**	**997.59**	**985.58**	**959.68**	**563.66**	**561.91**	**904.81**	**879.57**
Net SW (MGD)	SW	**104.23**	**91.72**	**70.73**	**99.09**	**83.91**	**114.03**	**120.96**	**133.03**	**104.67**	**97.74**	**72.03**	**60.55**	**96.06**

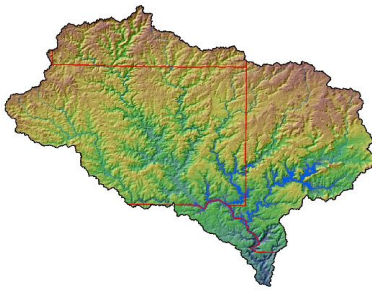
03160109-Mulberry Fork

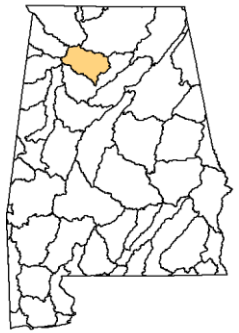
2010 FINAL DATA





03160110-Sipsey Fork





Area in AL (Square Miles) 996.0

Estimated Population (2010)* 52,585

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Public Supply	SW	6.89	6.97	11.59	6.71	6.73	11.56	19.16	27.46	35.07	35.04	24.76	38.79	19.23
Industrial/Mining	GW	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial/Mining	SW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.69	0.71	0.77	0.93	1.02	1.19	1.27	1.13	1.06	0.96	0.77	0.71	0.93
Agriculture	SW	0.79	0.85	0.97	1.44	1.93	2.68	2.96	2.44	1.99	1.53	0.97	0.81	1.61
Total	**SW**	**7.72**	**7.85**	**12.59**	**8.18**	**8.70**	**14.28**	**22.15**	**29.93**	**37.09**	**36.61**	**25.76**	**39.63**	**20.87**
Total	**GW**	**1.51**	**1.53**	**1.59**	**1.75**	**1.84**	**2.01**	**2.09**	**1.95**	**1.88**	**1.78**	**1.59**	**1.53**	**1.75**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.55	0.53	0.49	0.38	0.39	0.28	0.24	0.26	0.26	0.32	0.41	0.45	0.38
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.55**	**0.53**	**0.49**	**0.38**	**0.39**	**0.28**	**0.24**	**0.26**	**0.26**	**0.32**	**0.41**	**0.45**	**0.38**

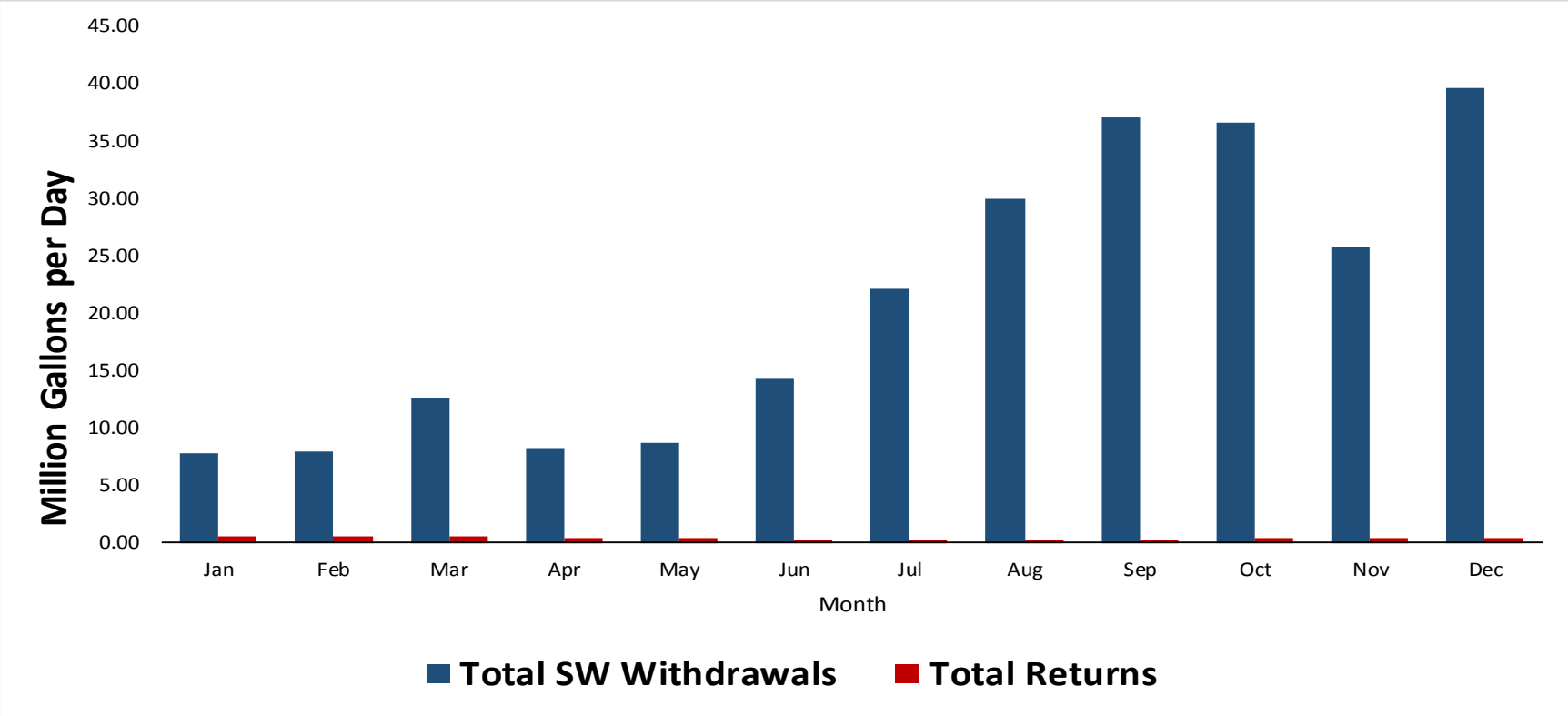
03160110-Sipsey Fork

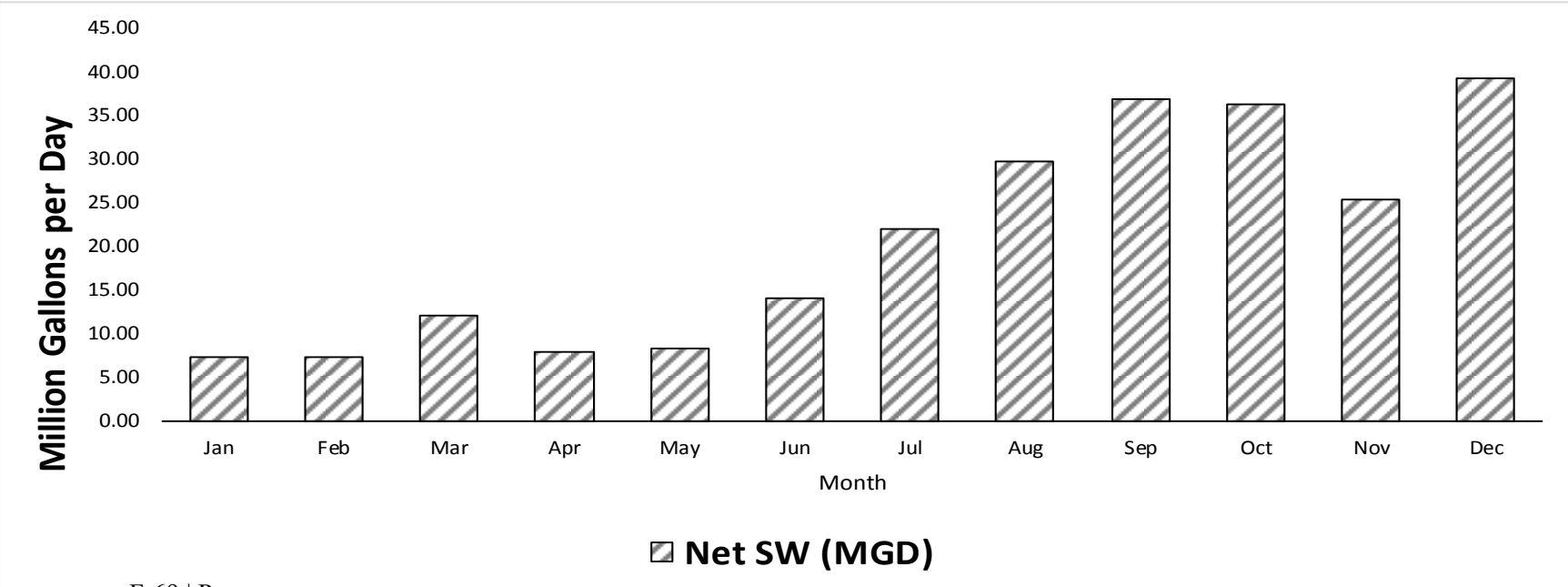
2010 FINAL DATA

Total SW Withdrawals	SW	7.72	7.85	12.59	8.18	8.70	14.28	22.15	29.93	37.09	36.61	25.76	39.63	20.87
Total GW Withdrawals	GW	1.51	1.53	1.59	1.75	1.84	2.01	2.09	1.95	1.88	1.78	1.59	1.53	1.75
Withdrawal Total		9.23	9.38	14.18	9.94	10.54	16.29	24.24	31.88	38.97	38.38	27.35	41.16	22.63
Total Returns		**0.55**	**0.53**	**0.49**	**0.38**	**0.39**	**0.28**	**0.24**	**0.26**	**0.26**	**0.32**	**0.41**	**0.45**	**0.38**
Net SW (MGD)	SW	**7.16**	**7.32**	**12.10**	**7.81**	**8.31**	**14.00**	**21.91**	**29.66**	**36.83**	**36.29**	**25.35**	**39.18**	**20.49**

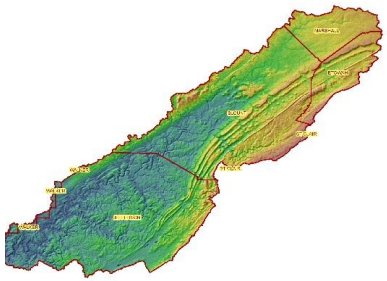
03160110-Sipsey Fork

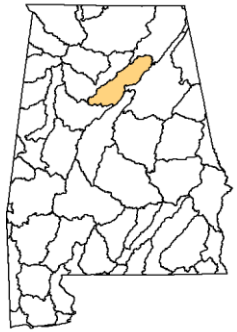
2010 FINAL DATA





03160111-Locust Fork





Area in AL (Square Miles)	1,209.0
Estimated Population (2010)*	309,901

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.56	3.51	3.51	3.41	3.39	3.61	3.64	3.49	4.12	3.92	3.88	4.05	3.67
Public Supply	SW	57.34	59.73	61.68	63.08	62.57	64.85	67.35	65.72	65.67	63.49	61.31	61.65	62.87
Industrial/Mining	GW	0.93	1.03	0.88	0.86	0.99	0.87	0.84	0.90	1.00	0.86	0.89	0.86	0.91
Industrial/Mining	SW	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.53	0.55	0.60	0.77	0.91	1.15	1.24	1.05	0.90	0.78	0.60	0.54	0.80
Agriculture	SW	0.72	0.81	1.07	2.45	3.54	4.90	5.59	4.91	4.69	3.20	1.27	0.72	2.82
Total	**SW**	**58.40**	**60.89**	**63.10**	**65.88**	**66.46**	**70.09**	**73.29**	**70.98**	**70.71**	**67.03**	**62.92**	**62.72**	**66.04**
Total	**GW**	**5.02**	**5.09**	**5.00**	**5.04**	**5.28**	**5.62**	**5.72**	**5.44**	**6.02**	**5.56**	**5.37**	**5.45**	**5.38**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		125.70	139.80	142.41	86.10	104.88	89.69	75.97	66.85	66.98	62.18	71.94	80.67	92.76
Industrial/Mining		11.74	11.74	12.87	12.09	11.79	12.10	10.90	11.10	9.73	9.23	9.78	9.10	11.01
Thermoelectric		16.16	16.16	16.16	7.11	3.15	5.63	2.85	7.11	14.59	5.30	4.51	16.16	9.57
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**153.60**	**167.70**	**171.44**	**105.30**	**119.82**	**107.41**	**89.71**	**85.06**	**91.31**	**76.71**	**86.23**	**105.92**	**113.35**

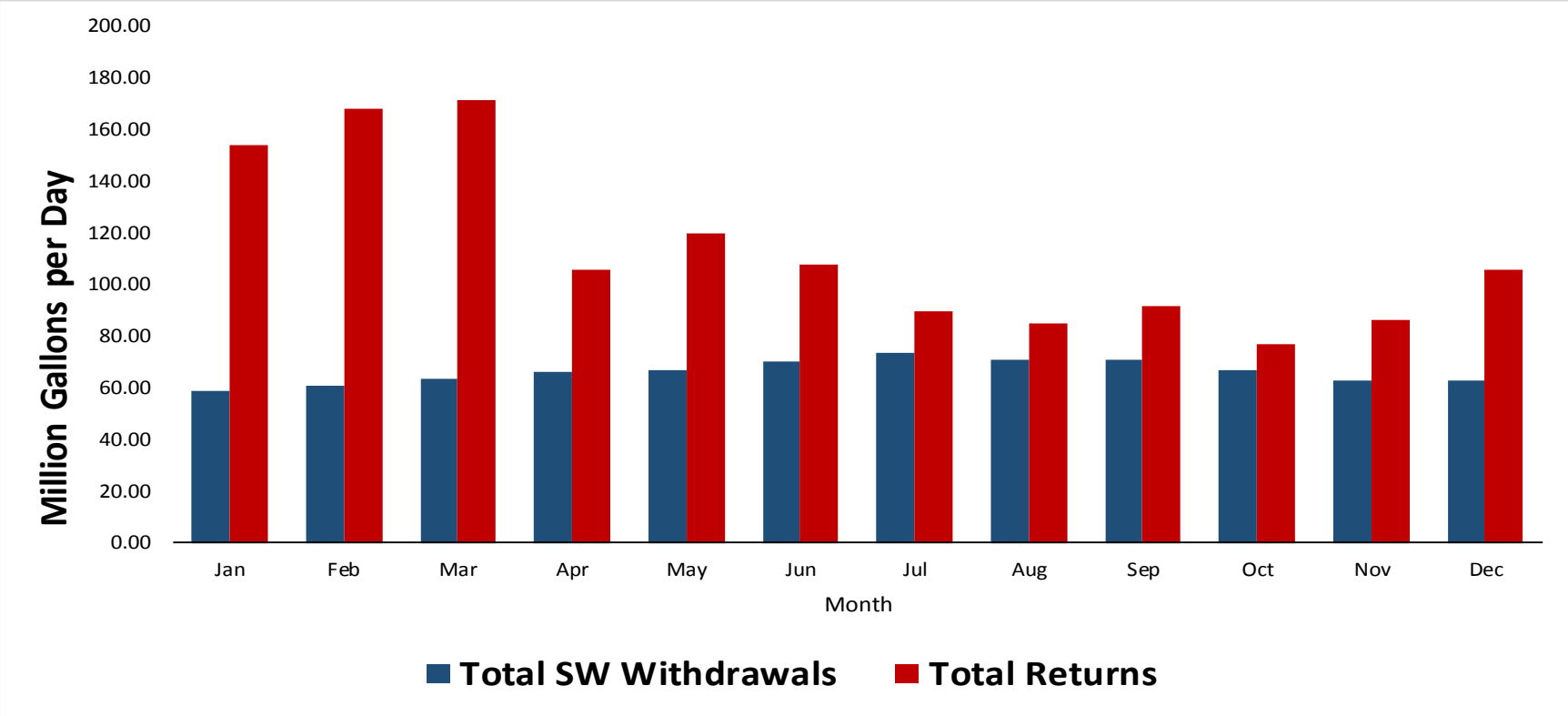
03160111-Locust Fork

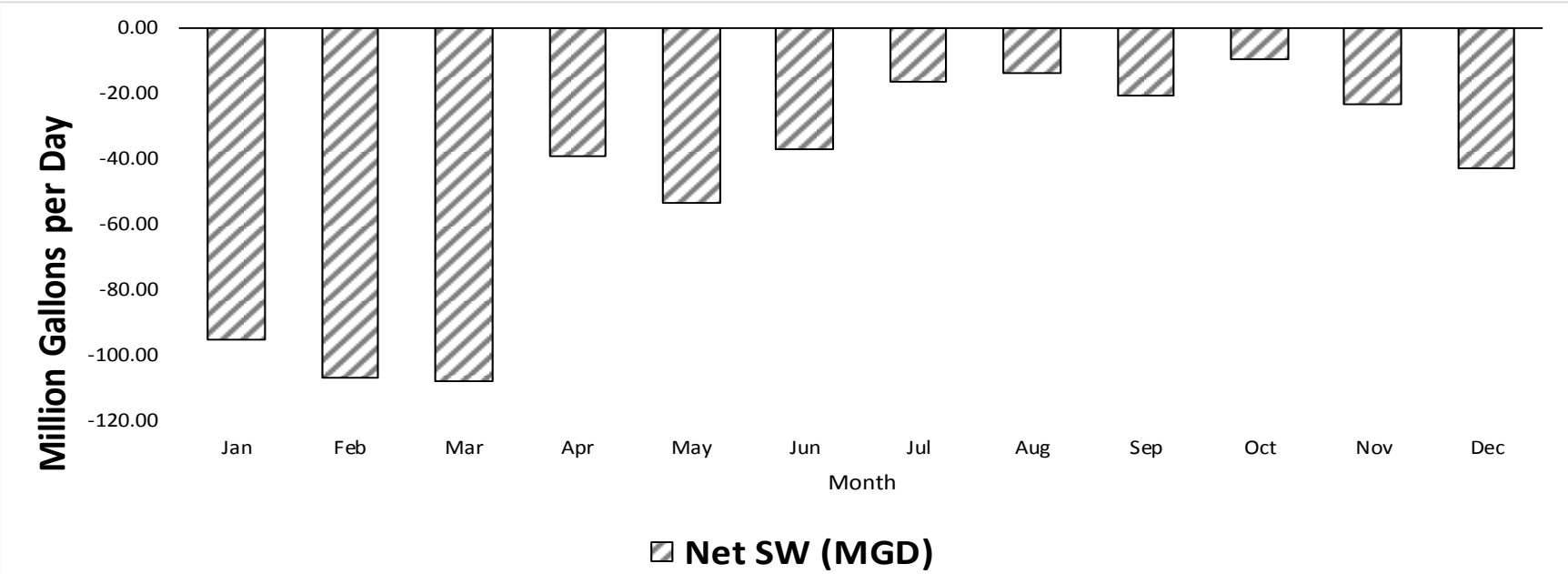
2010 FINAL DATA

Total SW Withdrawals	SW	58.40	60.89	63.10	65.88	66.46	70.09	73.29	70.98	70.71	67.03	62.92	62.72	66.04
Total GW Withdrawals	GW	5.02	5.09	5.00	5.04	5.28	5.62	5.72	5.44	6.02	5.56	5.37	5.45	5.38
Withdrawal Total		63.42	65.98	68.10	70.92	71.74	75.71	79.01	76.42	76.73	72.59	68.29	68.17	71.42
Total Returns		**153.60**	**167.70**	**171.44**	**105.30**	**119.82**	**107.41**	**89.71**	**85.06**	**91.31**	**76.71**	**86.23**	**105.92**	**113.35**
Net SW (MGD)	SW	**-95.20**	**-106.81**	**-108.35**	**-39.42**	**-53.36**	**-37.32**	**-16.43**	**-14.08**	**-20.60**	**-9.68**	**-23.31**	**-43.20**	**-47.31**

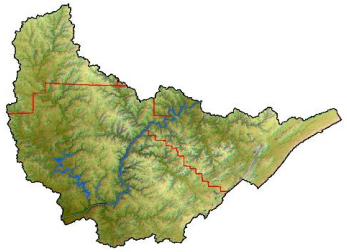
03160111-Locust Fork

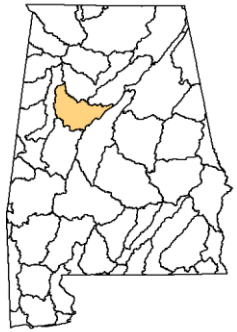
2010 FINAL DATA





03160112-Upper Black Warrior





Area in AL (Square Miles)	1,245.0
Estimated Population (2010)*	269,312

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.38	1.40	1.41	1.34	1.40	1.28	1.28	1.46	1.53	1.31	1.23	1.18	1.35
Public Supply	SW	30.24	26.68	26.56	31.24	31.61	33.16	36.85	38.42	38.38	34.70	29.88	27.92	32.14
Industrial/Mining	GW	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Industrial/Mining	SW	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.21	0.24	0.37	0.76	0.91	1.22	1.38	1.11	1.04	0.82	0.39	0.25	0.73
Agriculture	SW	0.57	0.72	1.76	4.04	4.65	5.89	7.05	6.30	6.14	4.44	2.06	0.68	3.69
Total	**SW**	**31.90**	**28.49**	**29.41**	**36.38**	**37.36**	**40.14**	**45.00**	**45.82**	**45.61**	**40.24**	**33.03**	**29.69**	**36.92**
Total	**GW**	**2.02**	**2.07**	**2.21**	**2.53**	**2.74**	**2.93**	**3.10**	**3.00**	**3.00**	**2.56**	**2.05**	**1.86**	**2.51**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		82.99	93.72	93.01	74.05	70.54	52.23	47.21	47.95	41.87	40.46	44.79	47.01	61.32
Industrial/Mining		99.63	78.55	69.84	75.60	72.62	64.19	68.06	68.53	60.40	69.13	73.02	71.55	72.59
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**182.62**	**172.27**	**162.85**	**149.65**	**143.16**	**116.41**	**115.27**	**116.48**	**102.27**	**109.59**	**117.81**	**118.56**	**133.91**

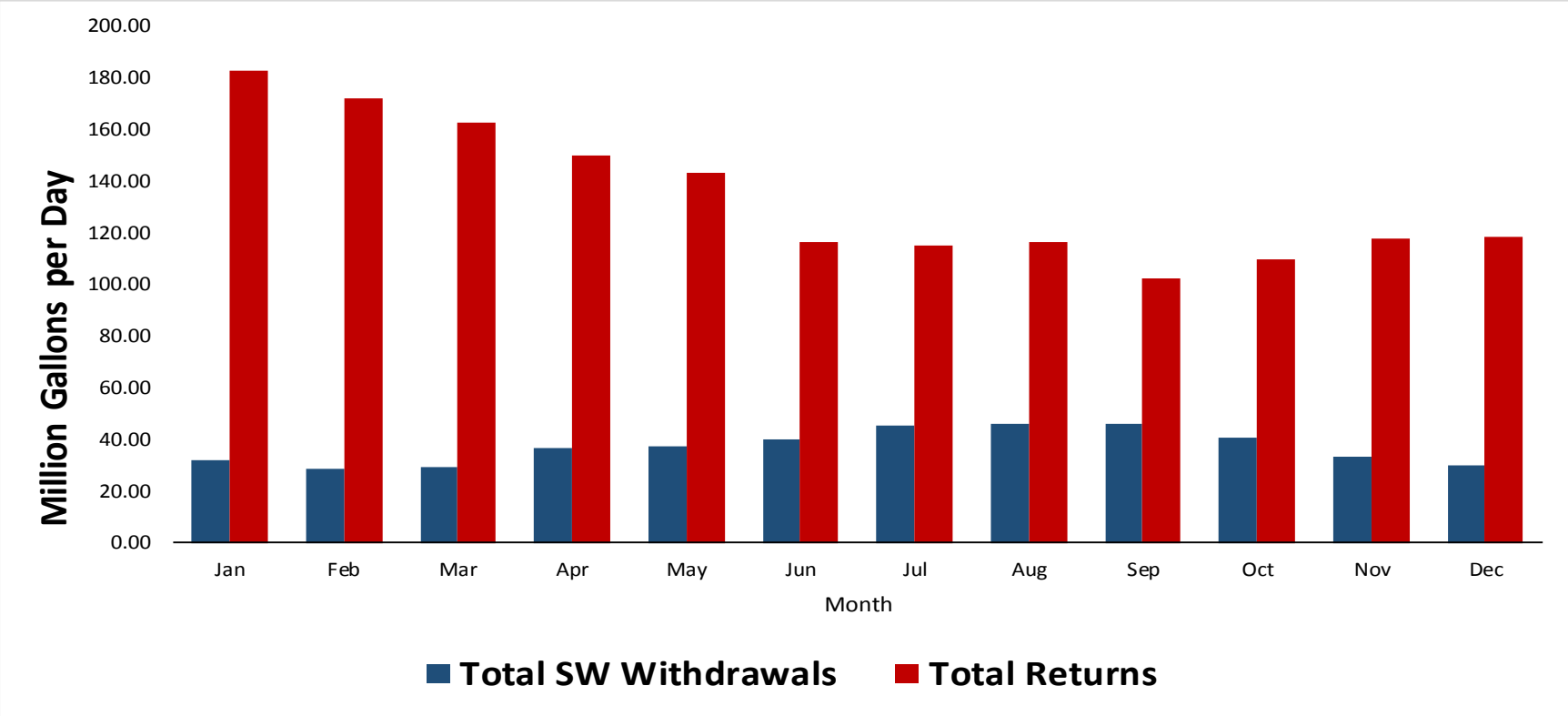
03160112-Upper Black Warrior

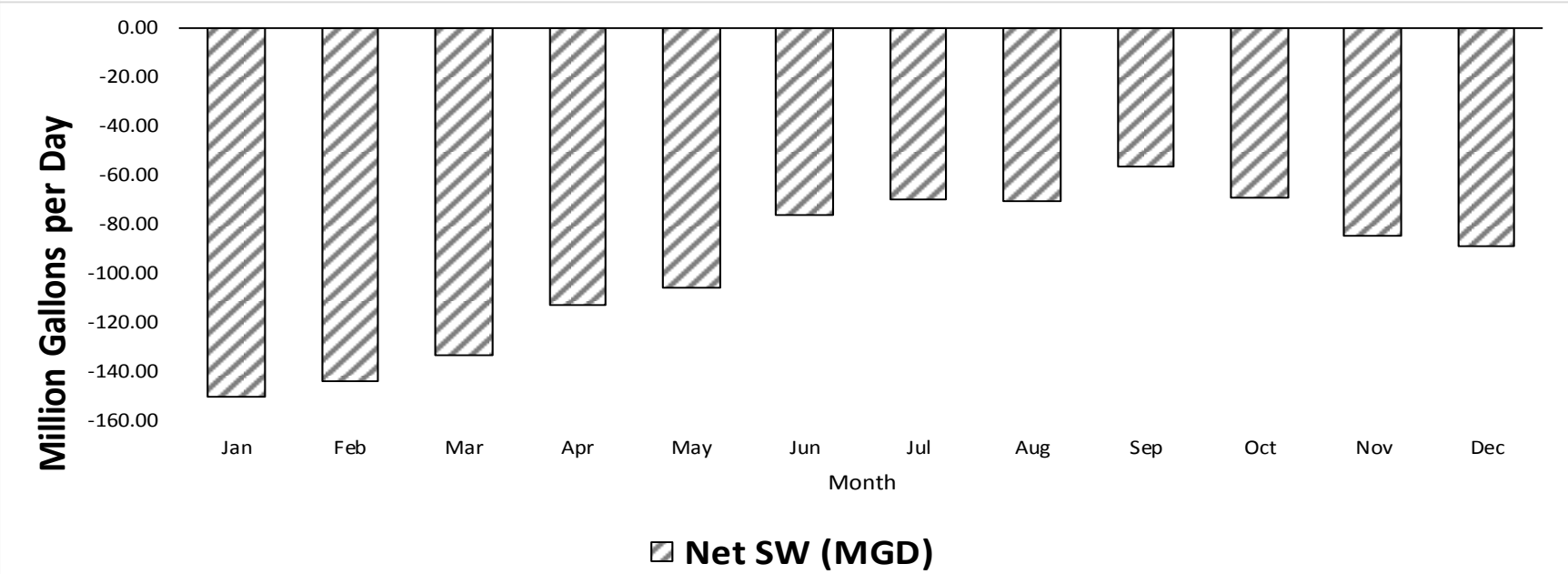
2010 FINAL DATA

Total SW Withdrawals	SW	31.90	28.49	29.41	36.38	37.36	40.14	45.00	45.82	45.61	40.24	33.03	29.69	36.92
Total GW Withdrawals	GW	2.02	2.07	2.21	2.53	2.74	2.93	3.10	3.00	3.00	2.56	2.05	1.86	2.51
Withdrawal Total		33.92	30.56	31.62	38.91	40.10	43.07	48.10	48.82	48.62	42.80	35.08	31.55	39.43
Total Returns		**182.62**	**172.27**	**162.85**	**149.65**	**143.16**	**116.41**	**115.27**	**116.48**	**102.27**	**109.59**	**117.81**	**118.56**	**133.91**
Net SW (MGD)	SW	**-150.71**	**-143.78**	**-133.44**	**-113.27**	**-105.81**	**-76.27**	**-70.27**	**-70.66**	**-56.66**	**-69.35**	**-84.78**	**-88.87**	**-96.99**

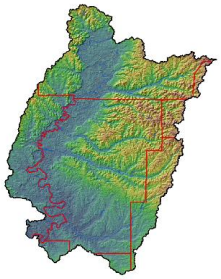
03160112-Upper Black Warrior

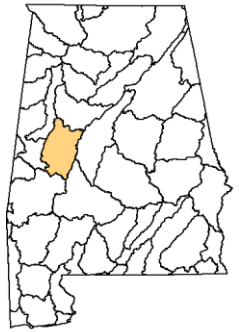
2010 FINAL DATA





03160113-Lower Black Warrior





Area in AL (Square Miles)	1,452.0
Estimated Population (2010)*	117,521

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.57	4.31	4.43	4.26	4.42	4.61	4.60	5.13	5.53	4.99	4.62	5.00	4.79
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.72	0.71	0.70	0.73	0.72	0.77	0.76	0.76	0.76	0.70	0.70	0.70	0.73
Industrial/Mining	SW	1.31	1.09	1.32	1.31	1.39	1.36	1.46	1.58	1.46	1.34	1.36	1.30	1.36
Thermoelectric	SW	412.12	406.31	364.55	263.05	414.23	408.36	409.52	410.23	283.80	296.97	206.46	377.58	354.43
Agriculture	GW	0.28	0.30	0.39	0.64	0.80	1.09	1.21	0.97	0.83	0.67	0.39	0.30	0.65
Agriculture	SW	24.05	24.10	24.33	25.11	25.39	25.86	26.17	25.84	25.93	25.39	24.43	24.11	25.06
Total	**SW**	**437.48**	**431.50**	**390.20**	**289.48**	**441.02**	**435.58**	**437.15**	**437.65**	**311.19**	**323.70**	**232.25**	**402.99**	**380.85**
Total	**GW**	**6.57**	**5.32**	**5.52**	**5.63**	**5.94**	**6.47**	**6.57**	**6.87**	**7.12**	**6.35**	**5.71**	**6.00**	**6.17**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.25	7.36	6.50	5.39	5.63	4.37	4.65	3.79	3.71	3.72	4.71	4.25	4.94
Industrial/Mining		2.72	2.30	4.06	2.49	2.43	2.36	2.39	2.69	2.08	2.55	2.89	2.87	2.65
Thermoelectric		411.85	406.41	364.17	261.48	414.23	408.40	410.86	410.30	283.86	296.98	206.48	377.54	354.38
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**419.82**	**416.07**	**374.72**	**269.36**	**422.28**	**415.13**	**417.91**	**416.78**	**289.65**	**303.25**	**214.08**	**384.65**	**361.98**

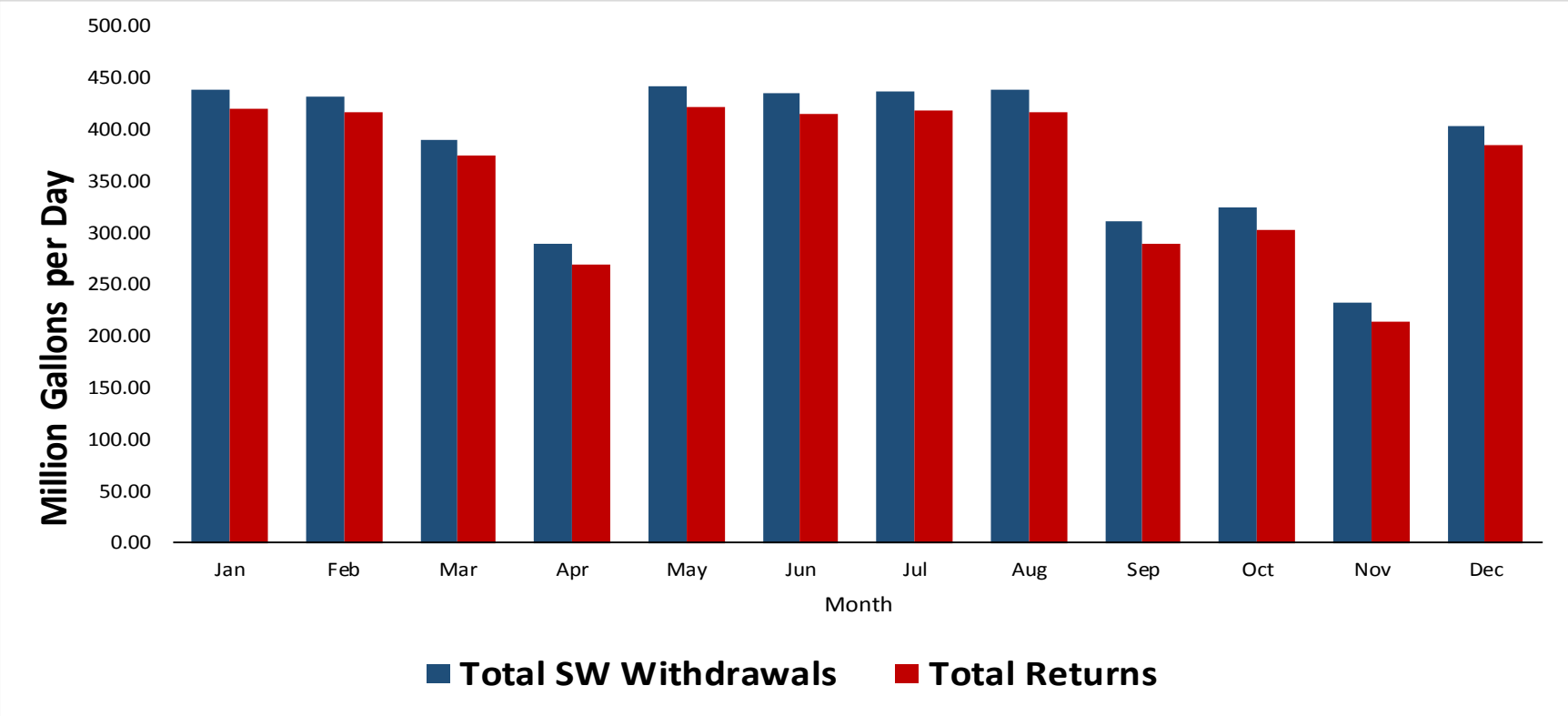
03160113-Lower Black Warrior

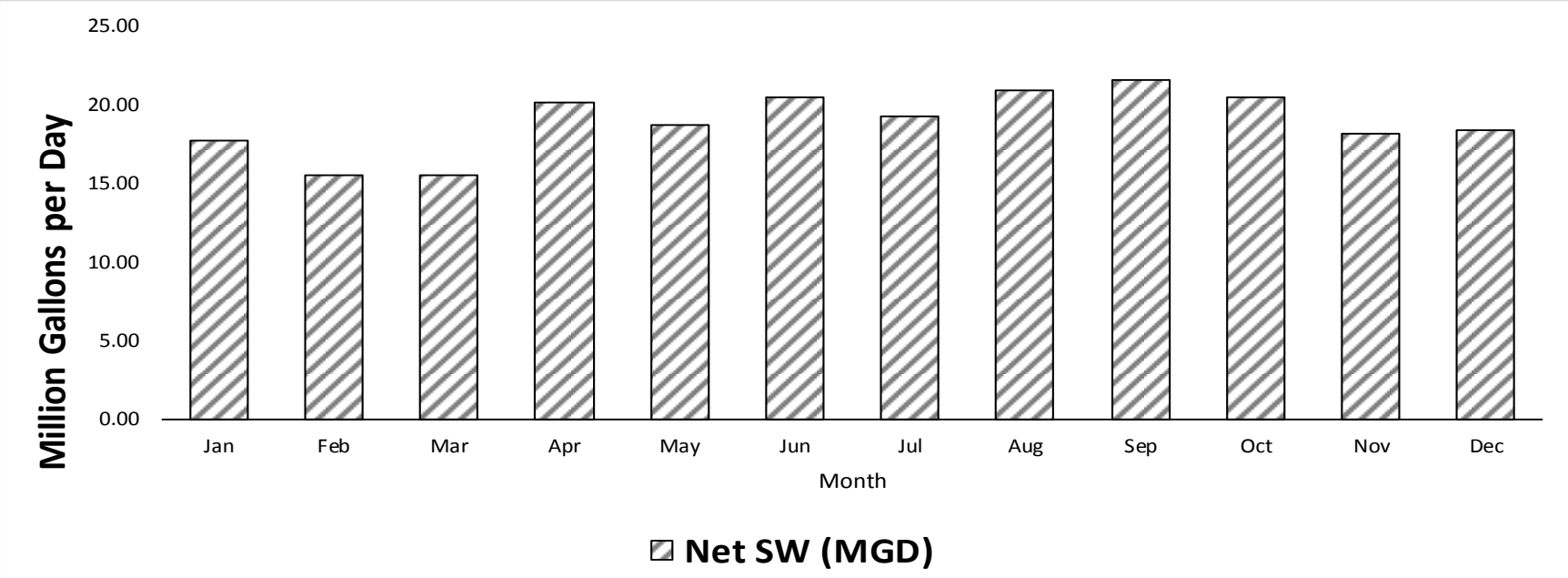
2010 FINAL DATA

Total SW Withdrawals	SW	437.48	431.50	390.20	289.48	441.02	435.58	437.15	437.65	311.19	323.70	232.25	402.99	380.85
Total GW Withdrawals	GW	6.57	5.32	5.52	5.63	5.94	6.47	6.57	6.87	7.12	6.35	5.71	6.00	6.17
Withdrawal Total		444.05	436.82	395.72	295.11	446.96	442.04	443.72	444.51	318.31	330.06	237.96	408.99	387.02
Total Returns		**419.82**	**416.07**	**374.72**	**269.36**	**422.28**	**415.13**	**417.91**	**416.78**	**289.65**	**303.25**	**214.08**	**384.65**	**361.98**
Net SW (MGD)	SW	**17.66**	**15.43**	**15.48**	**20.12**	**18.73**	**20.45**	**19.24**	**20.86**	**21.54**	**20.45**	**18.17**	**18.34**	**18.87**

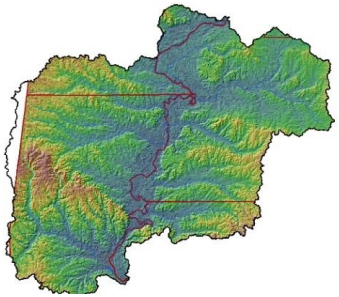
03160113-Lower Black Warrior

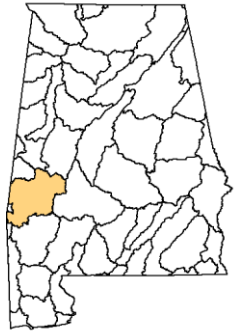
2010 FINAL DATA





03160201-Middle Tombigbee-Chickasaw





Area in AL (Square Miles)	2,042.7
Estimated Population (2010)*	34,454

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.54	5.03	5.20	4.81	4.94	5.01	4.89	4.96	4.28	4.31	4.11	4.67	4.81
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.53	0.54	0.56	0.62	0.62	0.61	0.68	0.63	0.59	0.51	0.42	0.44	0.56
Industrial/Mining	SW	62.17	62.32	53.24	60.41	64.24	63.33	58.62	55.07	58.25	61.72	62.80	62.31	60.37
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.17	0.19	0.20	0.26	0.40	0.61	0.66	0.51	0.32	0.25	0.18	0.17	0.33
Agriculture	SW	2.26	2.27	2.34	2.69	2.92	3.18	3.35	3.25	3.29	2.91	2.40	2.26	2.76
Total	**SW**	**64.43**	**64.59**	**55.58**	**63.10**	**67.16**	**66.51**	**61.97**	**58.32**	**61.54**	**64.63**	**65.20**	**64.57**	**63.13**
Total	**GW**	**6.24**	**5.76**	**5.97**	**5.69**	**5.96**	**6.22**	**6.24**	**6.10**	**5.20**	**5.07**	**4.71**	**5.28**	**5.70**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.99	4.36	3.16	1.78	2.14	1.51	1.62	1.75	1.06	1.08	3.38	1.99	2.32
Industrial/Mining		52.46	55.43	39.13	45.29	51.38	46.57	48.65	45.62	45.49	47.28	47.84	44.81	47.50
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**56.45**	**59.79**	**42.29**	**47.07**	**53.52**	**48.07**	**50.27**	**47.37**	**46.55**	**48.37**	**51.23**	**46.80**	**49.81**

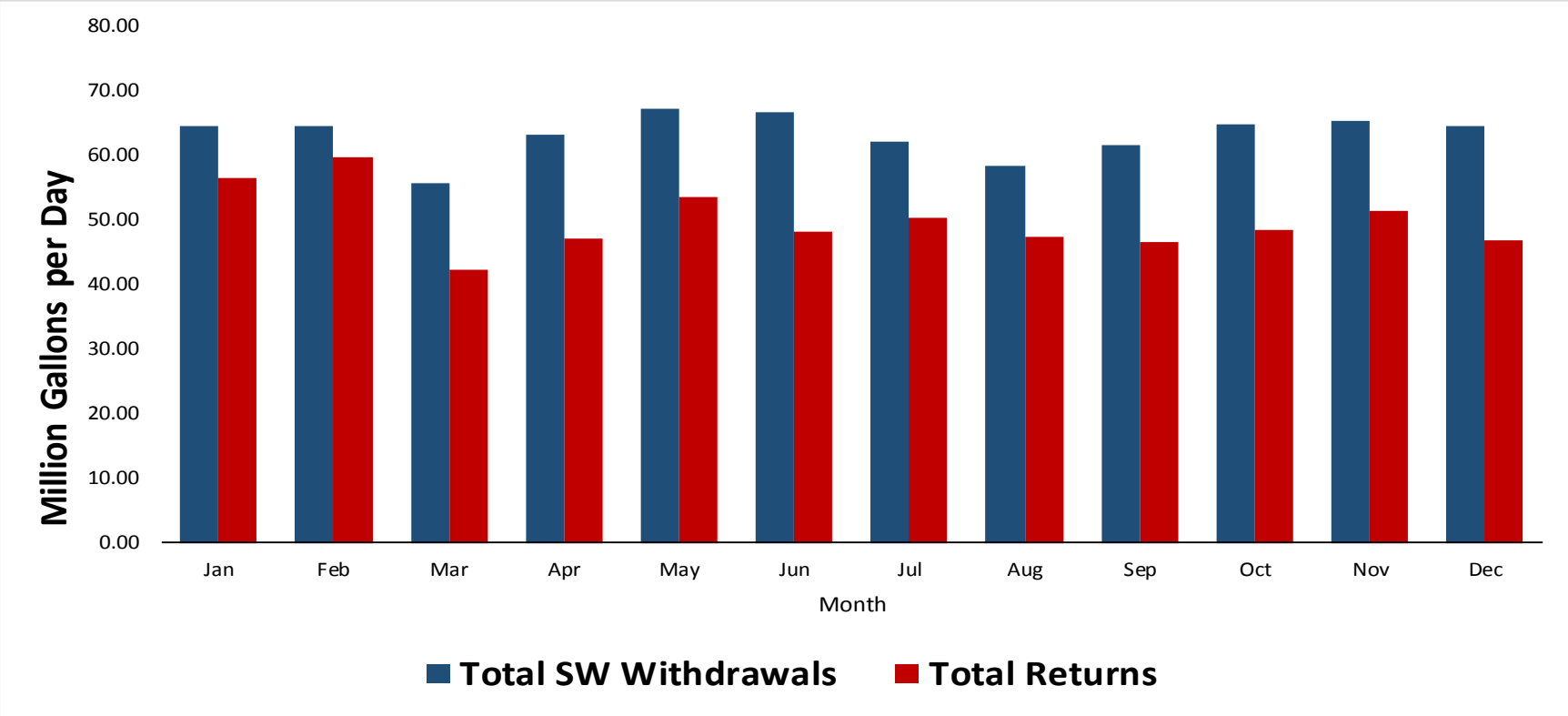
03160201-Middle Tombigbee-Chickasaw

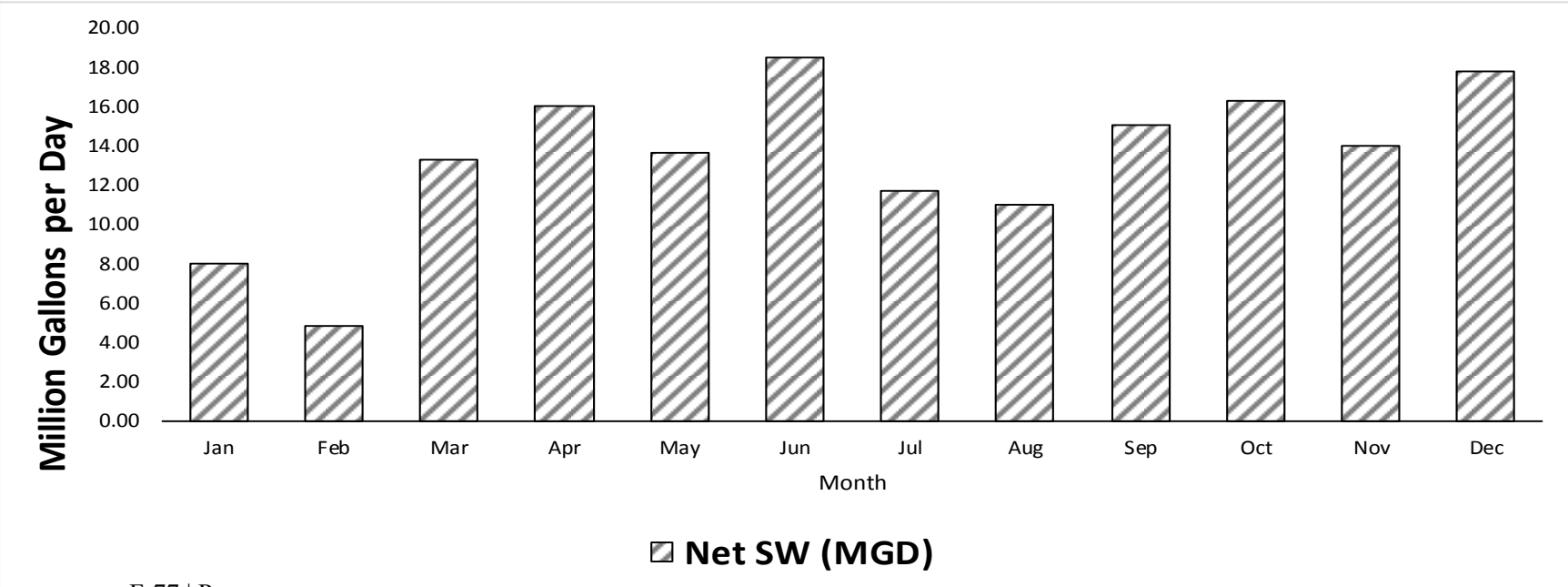
2010 FINAL DATA

Total SW Withdrawals	SW	64.43	64.59	55.58	63.10	67.16	66.51	61.97	58.32	61.54	64.63	65.20	64.57	63.13
Total GW Withdrawals	GW	6.24	5.76	5.97	5.69	5.96	6.22	6.24	6.10	5.20	5.07	4.71	5.28	5.70
Withdrawal Total		70.67	70.35	61.54	68.79	73.12	72.73	68.21	64.42	66.74	69.70	69.92	69.85	68.84
Total Returns		**56.45**	**59.79**	**42.29**	**47.07**	**53.52**	**48.07**	**50.27**	**47.37**	**46.55**	**48.37**	**51.23**	**46.80**	**49.81**
Net SW (MGD)	SW	**7.98**	**4.80**	**13.29**	**16.04**	**13.65**	**18.44**	**11.70**	**10.95**	**14.99**	**16.27**	**13.98**	**17.76**	**13.32**

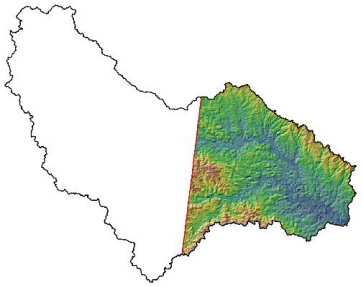
03160201-Middle Tombigbee-Chickasaw

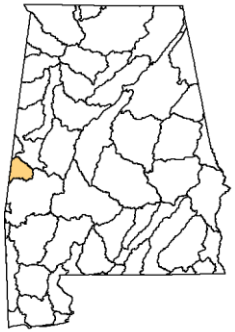
2010 FINAL DATA





03160202-Sucarnoochee





Area in AL (Square Miles)	382.5
Estimated Population (2010)*	6,518

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.10	0.11	0.13	0.10	0.09	0.09	0.10	0.10	0.10	0.09	0.09	0.09	0.10
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Industrial/Mining	SW	1.23	1.23	1.23	1.23	1.23	1.30	1.30	1.30	1.30	1.30	1.23	1.23	1.26
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.06	0.06	0.07	0.10	0.16	0.26	0.29	0.22	0.13	0.09	0.06	0.06	0.13
Agriculture	SW	0.67	0.68	0.69	0.79	0.85	0.93	0.97	0.95	0.95	0.85	0.71	0.67	0.81
Total	**SW**	**1.90**	**1.91**	**1.92**	**2.02**	**2.08**	**2.23**	**2.27**	**2.25**	**2.26**	**2.15**	**1.94**	**1.90**	**2.07**
Total	**GW**	**0.48**	**0.50**	**0.53**	**0.52**	**0.58**	**0.69**	**0.72**	**0.65**	**0.56**	**0.50**	**0.48**	**0.48**	**0.56**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.88	1.94	2.11	1.11	0.70	0.57	0.89	1.14	0.62	0.52	0.95	1.01	1.12
Industrial/Mining		0.00	0.07	0.08	0.09	0.10	0.11	0.19	0.02	0.12	0.42	0.74	0.34	0.19
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.88**	**2.01**	**2.19**	**1.20**	**0.80**	**0.69**	**1.08**	**1.16**	**0.73**	**0.94**	**1.69**	**1.35**	**1.31**

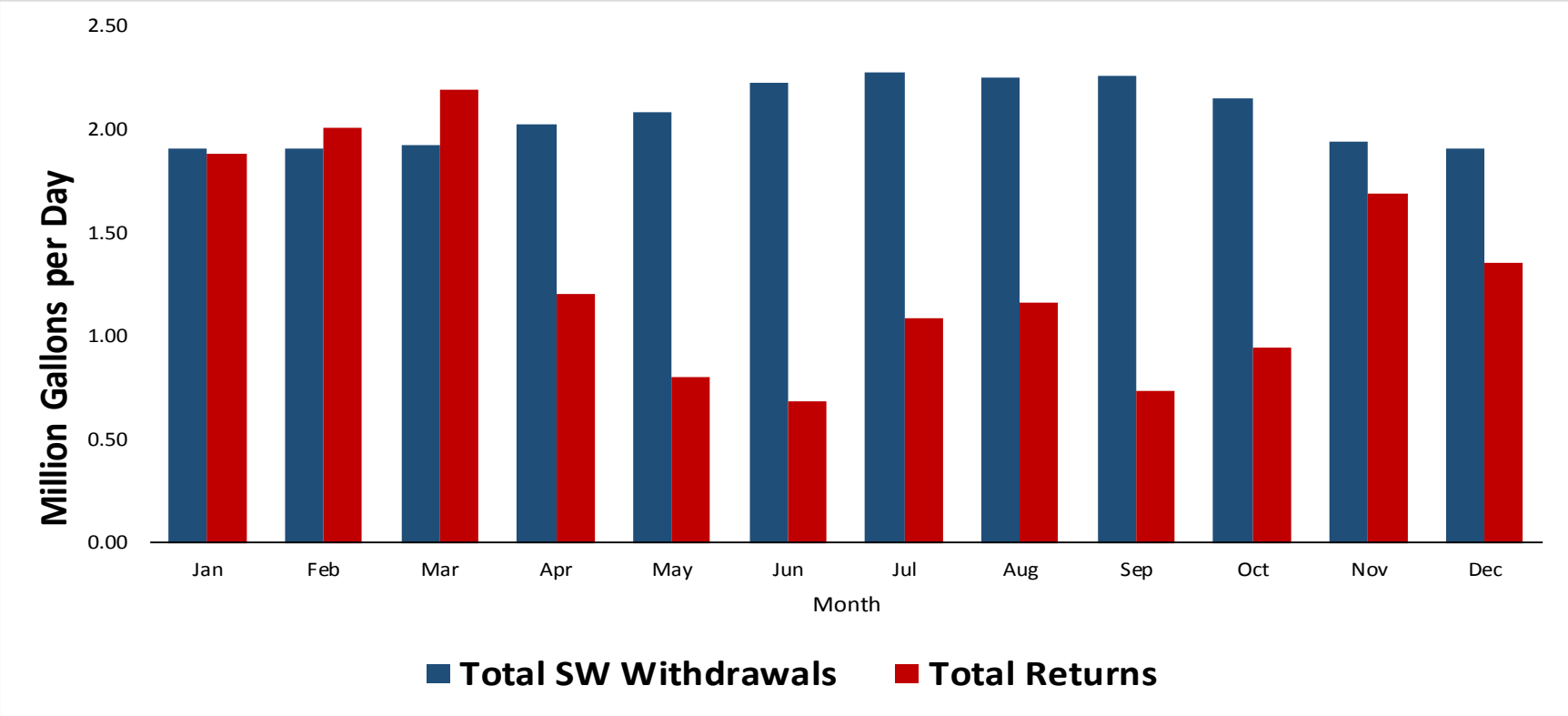
03160202-Sucarnoochee

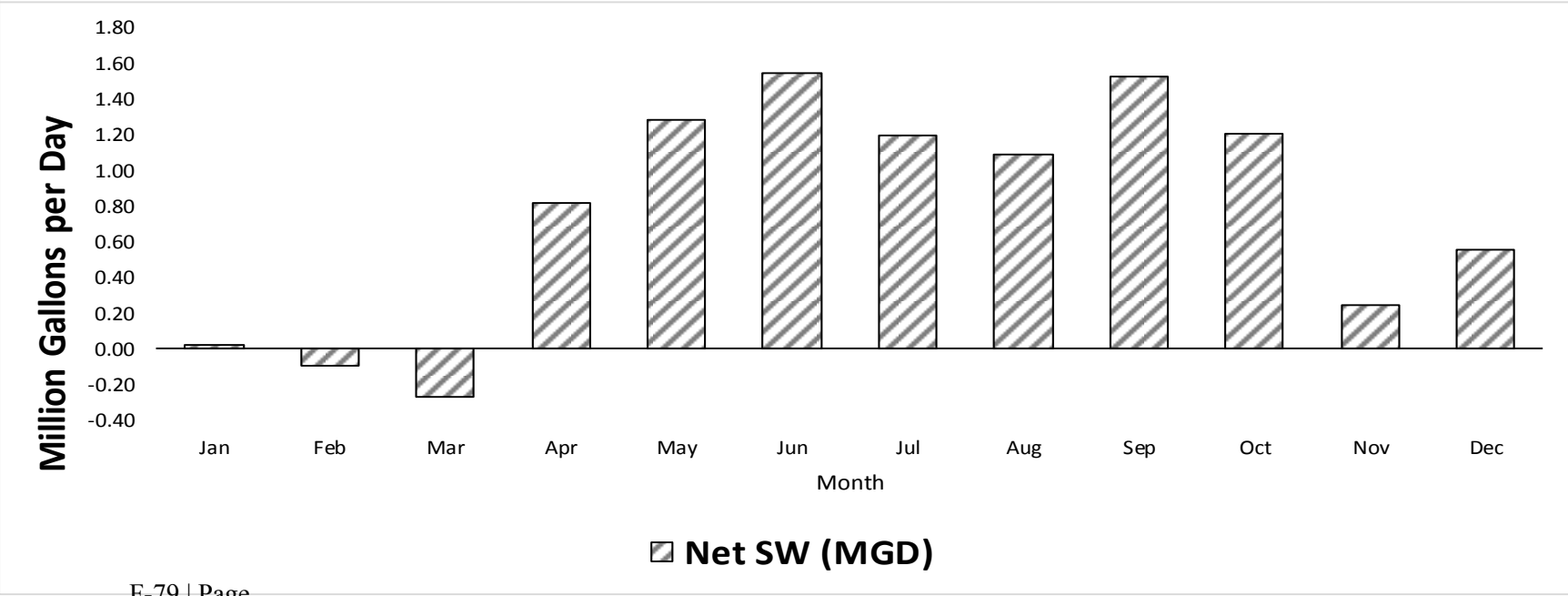
2010 FINAL DATA

Total SW Withdrawals	SW	1.90	1.91	1.92	2.02	2.08	2.23	2.27	2.25	2.26	2.15	1.94	1.90	2.07
Total GW Withdrawals	GW	0.48	0.50	0.53	0.52	0.58	0.69	0.72	0.65	0.56	0.50	0.48	0.48	0.56
Withdrawal Total		2.38	2.41	2.45	2.54	2.67	2.91	2.99	2.90	2.81	2.65	2.42	2.38	2.63
Total Returns		**1.88**	**2.01**	**2.19**	**1.20**	**0.80**	**0.69**	**1.08**	**1.16**	**0.73**	**0.94**	**1.69**	**1.35**	**1.31**
Net SW (MGD)	SW	**0.02**	**-0.10**	**-0.27**	**0.82**	**1.28**	**1.54**	**1.19**	**1.09**	**1.53**	**1.21**	**0.25**	**0.55**	**0.76**

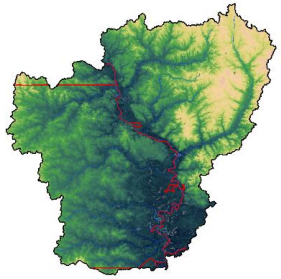
03160202-Sucarnoochee

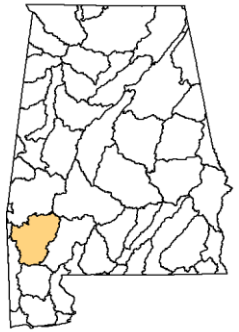
2010 FINAL DATA





03160203-Lower Tombigbee





Area in AL (Square Miles)	1,615.0
Estimated Population (2010)*	32,272

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.17	4.45	4.30	4.47	4.77	4.84	4.84	5.71	4.73	4.56	4.42	5.24	4.79
Public Supply	SW	3.42	2.81	2.46	2.50	2.62	2.95	2.81	2.67	2.76	2.60	2.32	2.79	2.72
Industrial/Mining	GW	6.91	7.68	8.33	7.95	6.62	5.90	7.90	8.07	7.73	8.13	6.67	6.61	7.38
Industrial/Mining	SW	25.14	24.04	24.67	26.37	26.12	25.73	25.50	25.06	25.32	25.54	22.41	25.03	25.08
Thermoelectric	SW	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	73.20	69.90	61.20	78.00	75.53
Agriculture	GW	0.14	0.16	0.21	0.37	0.44	0.59	0.66	0.54	0.49	0.39	0.22	0.16	0.36
Agriculture	SW	0.24	0.24	0.24	0.27	0.28	0.31	0.32	0.31	0.30	0.28	0.24	0.24	0.27
Total	**SW**	**106.80**	**105.09**	**105.37**	**107.14**	**107.03**	**106.99**	**106.62**	**106.04**	**101.58**	**98.31**	**86.17**	**106.06**	**103.60**
Total	**GW**	**12.22**	**12.28**	**12.84**	**12.79**	**11.83**	**11.32**	**13.40**	**14.32**	**12.95**	**13.09**	**11.31**	**12.01**	**12.53**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.65	1.91	2.74	1.77	1.64	2.64	1.50	1.38	1.06	0.93	1.04	0.99	1.60
Industrial/Mining		32.39	33.43	28.05	30.82	31.89	28.23	36.02	37.74	40.32	47.13	41.38	49.73	36.43
Thermoelectric		80.57	80.49	80.37	80.09	80.23	80.56	80.35	80.20	79.71	79.50	80.01	80.43	80.21
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**114.62**	**115.84**	**111.16**	**112.68**	**113.76**	**111.42**	**117.86**	**119.32**	**121.09**	**127.56**	**122.42**	**131.15**	**118.24**

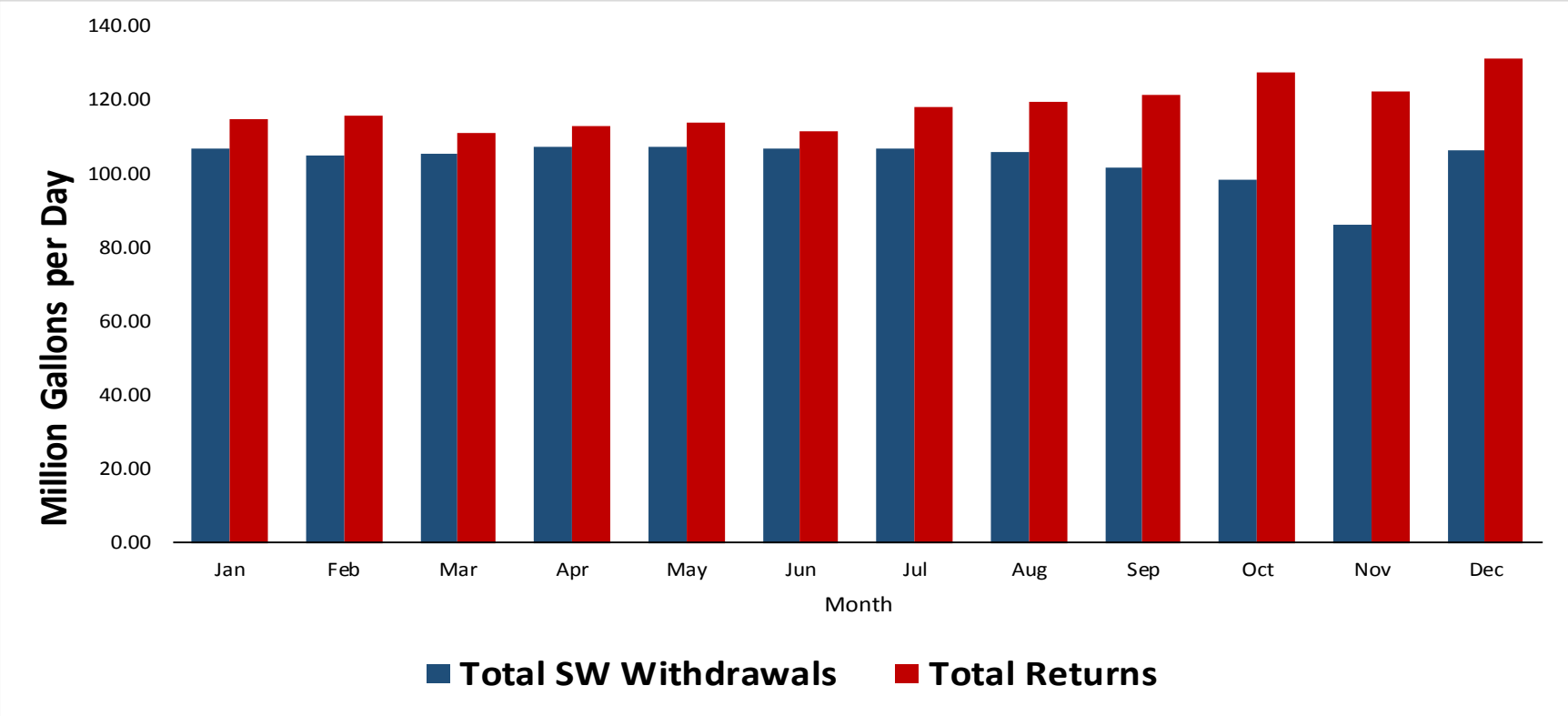
03160203-Lower Tombigbee

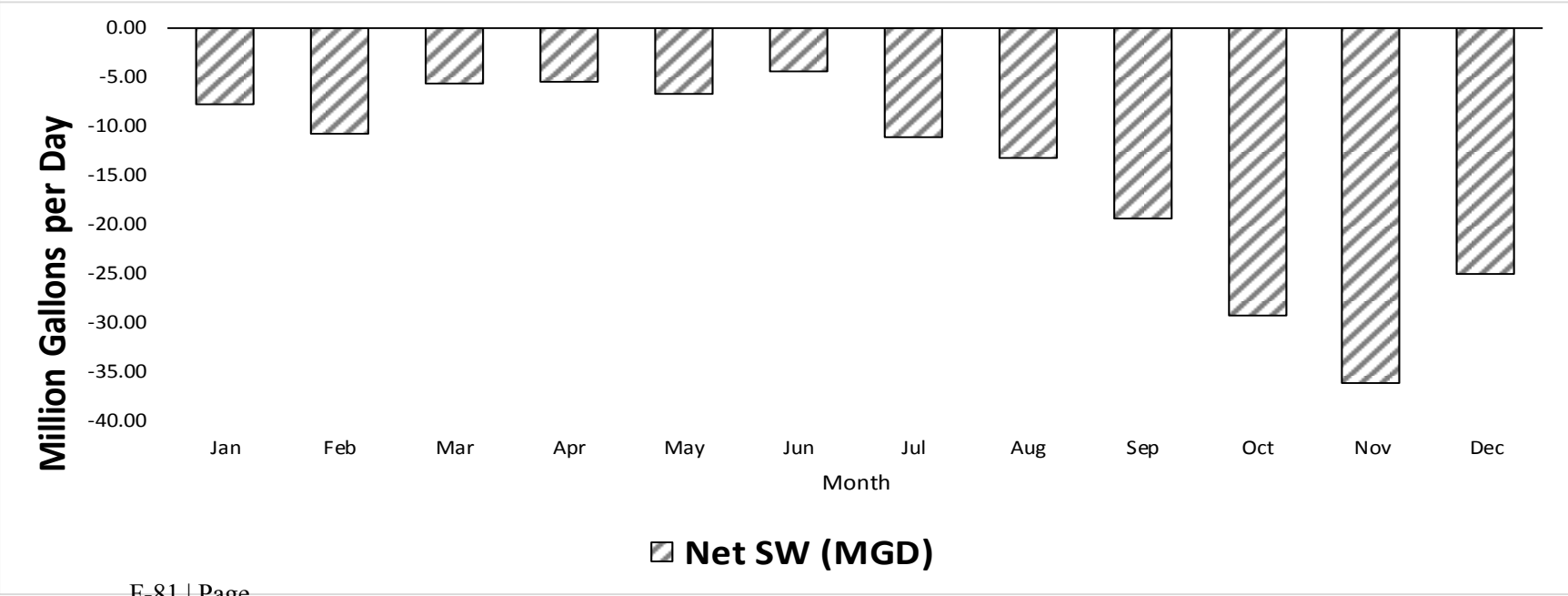
2010 FINAL DATA

Total SW Withdrawals	SW	106.80	105.09	105.37	107.14	107.03	106.99	106.62	106.04	101.58	98.31	86.17	106.06	103.60
Total GW Withdrawals	GW	12.22	12.28	12.84	12.79	11.83	11.32	13.40	14.32	12.95	13.09	11.31	12.01	12.53
Withdrawal Total		119.02	117.37	118.21	119.92	118.85	118.31	120.02	120.36	114.53	111.40	97.48	118.06	116.13
Total Returns		**114.62**	**115.84**	**111.16**	**112.68**	**113.76**	**111.42**	**117.86**	**119.32**	**121.09**	**127.56**	**122.42**	**131.15**	**118.24**
Net SW (MGD)	SW	**-7.82**	**-10.74**	**-5.79**	**-5.54**	**-6.73**	**-4.44**	**-11.24**	**-13.28**	**-19.51**	**-29.25**	**-36.25**	**-25.09**	**-14.64**

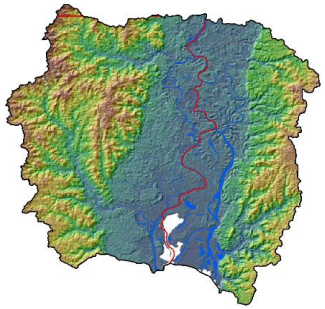
03160203-Lower Tombigbee

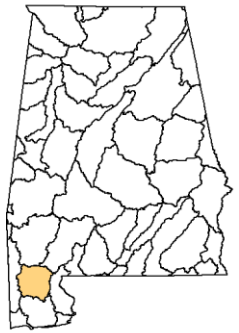
2010 FINAL DATA





03160204-Mobile-Tensaw





Area in AL (Square Miles) 912.0

Estimated Population (2010)* 146,380

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	11.25	10.23	10.04	11.45	11.82	11.88	11.62	11.22	11.60	12.32	9.68	9.92	11.09
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	4.82	5.26	5.30	5.01	5.34	4.76	5.78	4.86	4.81	4.91	4.79	4.84	5.04
Industrial/Mining	SW	0.61	0.67	0.43	0.30	0.29	0.44	0.84	0.40	0.89	1.20	1.02	1.28	0.70
Thermoelectric	SW	992.72	1152.87	1046.13	905.30	874.01	1126.89	1130.49	1167.69	900.15	650.13	973.57	965.73	990.47
Agriculture	GW	2.57	3.04	5.73	13.07	14.58	18.41	21.13	17.42	18.23	14.60	6.40	3.39	11.55
Agriculture	SW	0.66	0.79	1.51	3.21	3.84	5.04	5.91	5.12	4.78	3.50	1.69	0.74	3.07
Total	**SW**	**993.99**	**1154.33**	**1048.07**	**908.81**	**878.14**	**1132.37**	**1137.24**	**1173.21**	**905.82**	**654.82**	**976.28**	**967.75**	**994.24**
Total	**GW**	**18.64**	**18.52**	**21.07**	**29.54**	**31.74**	**35.05**	**38.53**	**33.50**	**34.63**	**31.83**	**20.86**	**18.15**	**27.67**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		63.08	63.39	52.29	38.26	47.08	43.75	37.00	47.36	37.82	33.11	40.65	38.52	45.19
Industrial/Mining		31.14	28.27	29.94	29.29	29.11	31.88	29.58	28.23	27.27	25.69	29.29	27.00	28.89
Thermoelectric		985.37	1139.75	1030.77	889.92	860.63	1107.98	1109.36	1141.68	881.31	640.51	964.09	946.72	974.84
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1079.58**	**1231.41**	**1113.00**	**957.47**	**936.82**	**1183.60**	**1175.94**	**1217.28**	**946.40**	**699.31**	**1034.03**	**1012.24**	**1048.92**

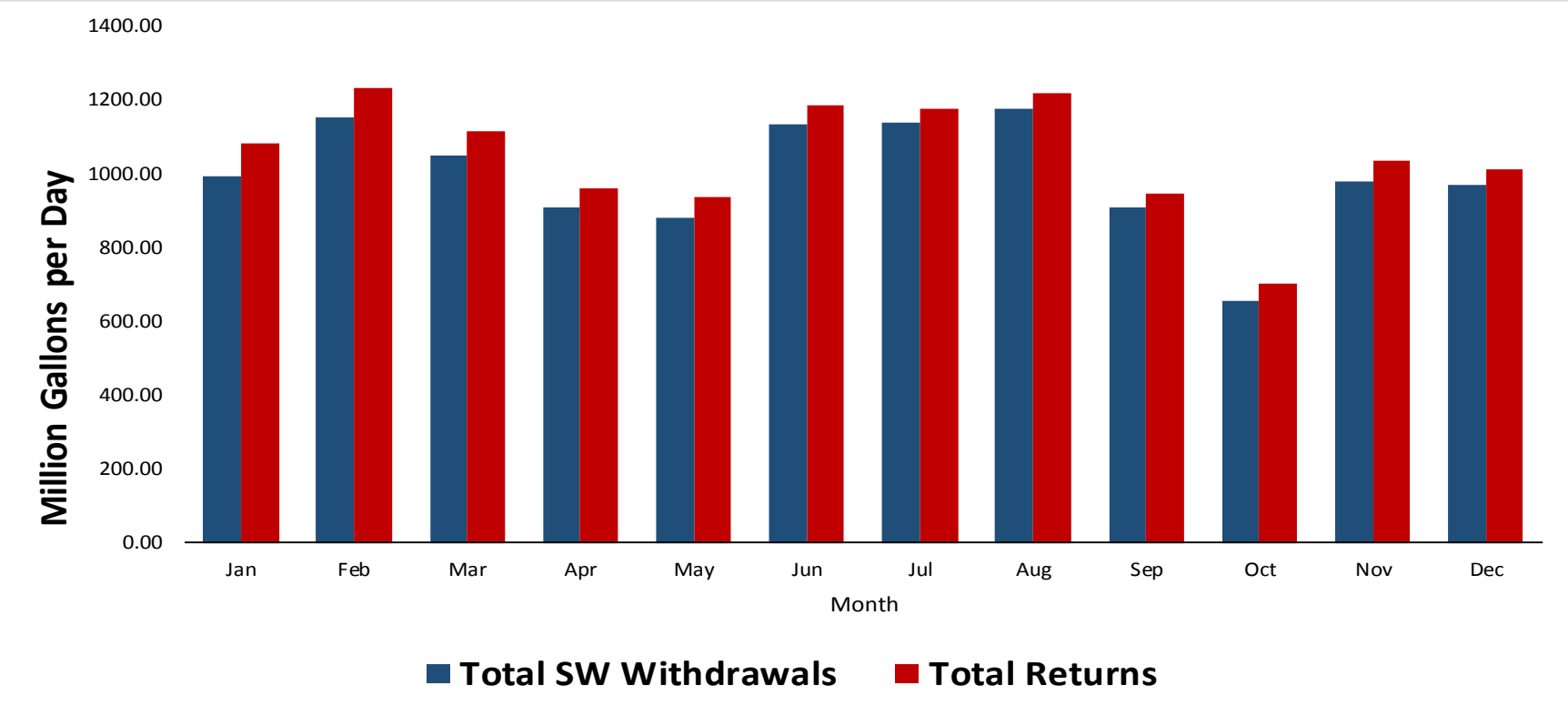
03160204-Mobile-Tensaw

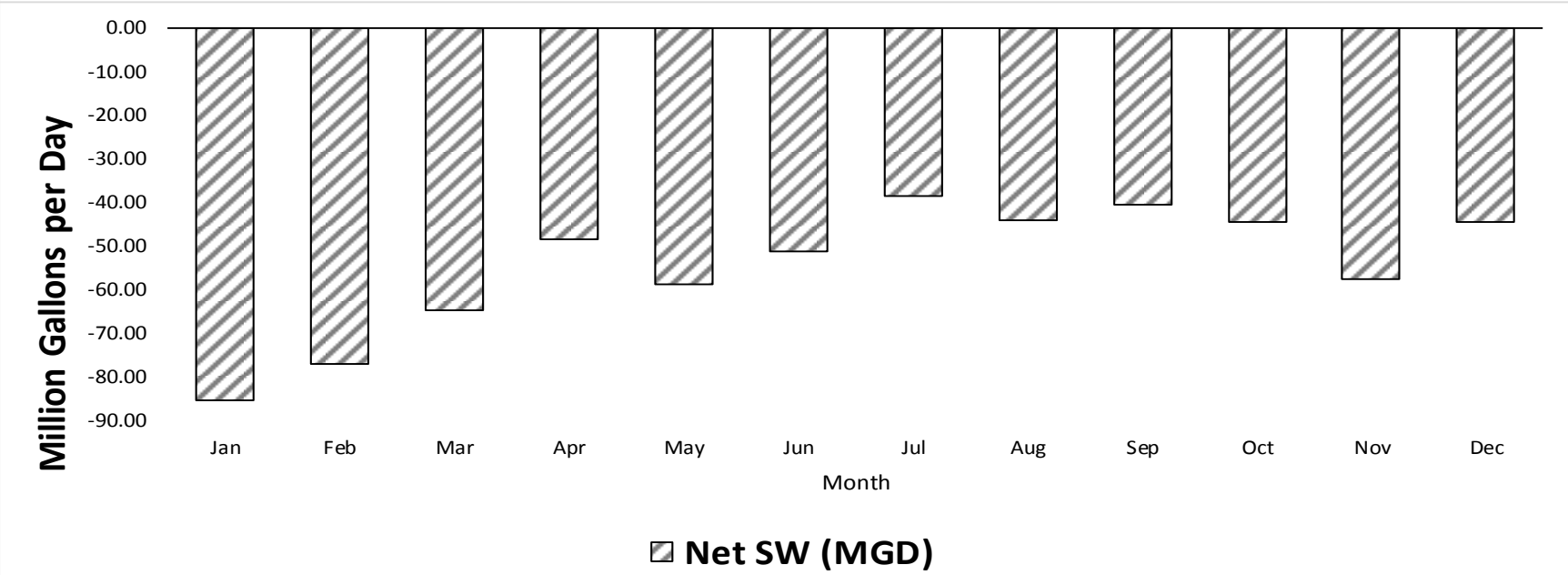
2010 FINAL DATA

Total SW Withdrawals	SW	993.99	1154.33	1048.07	908.81	878.14	1132.37	1137.24	1173.21	905.82	654.82	976.28	967.75	994.24
Total GW Withdrawals	GW	18.64	18.52	21.07	29.54	31.74	35.05	38.53	33.50	34.63	31.83	20.86	18.15	27.67
Withdrawal Total		1012.63	1172.85	1069.13	938.34	909.88	1167.42	1175.78	1206.71	940.45	686.65	997.14	985.90	1021.91
Total Returns		**1079.58**	**1231.41**	**1113.00**	**957.47**	**936.82**	**1183.60**	**1175.94**	**1217.28**	**946.40**	**699.31**	**1034.03**	**1012.24**	**1048.92**
Net SW (MGD)	SW	**-85.59**	**-77.08**	**-64.93**	**-48.66**	**-58.68**	**-51.23**	**-38.69**	**-44.06**	**-40.58**	**-44.49**	**-57.75**	**-44.49**	**-54.69**

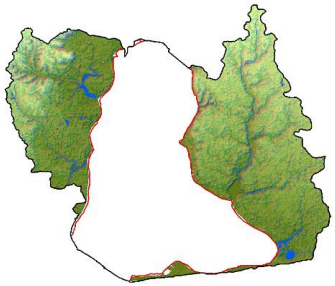
03160204-Mobile-Tensaw

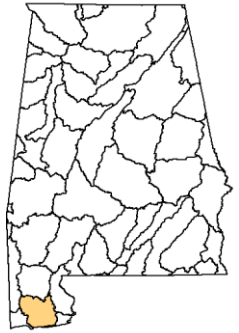
2010 FINAL DATA





03160205-Mobile Bay





Area in AL (Square Miles) 872.0

Estimated Population (2010)* 212,016

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Mobile-Tombigbee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	13.62	12.09	12.58	15.16	15.08	15.07	15.76	15.83	16.40	15.83	12.78	11.78	14.33
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.18	1.16	0.87	1.09	1.13	1.11	1.11	1.14	1.14	1.14	1.14	1.12	1.11
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	2.78	3.27	6.19	14.15	15.71	19.75	22.67	18.73	19.73	15.82	6.94	3.67	12.45
Agriculture	SW	0.65	0.88	2.36	5.58	6.63	8.56	10.31	9.24	8.78	6.16	2.79	0.76	5.22
Total	**SW**	**0.65**	**0.88**	**2.36**	**5.58**	**6.63**	**8.56**	**10.31**	**9.24**	**8.78**	**6.16**	**2.79**	**0.76**	**5.22**
Total	**GW**	**17.58**	**16.52**	**19.64**	**30.40**	**31.92**	**35.93**	**39.54**	**35.70**	**37.26**	**32.80**	**20.86**	**16.57**	**27.89**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		2.99	3.14	2.84	2.31	2.43	2.58	2.35	2.66	2.37	2.28	2.35	2.31	2.55
Industrial/Mining		4.30	4.06	3.41	2.20	3.32	2.94	2.24	2.61	2.45	2.54	2.58	3.20	2.99
Thermoelectric		0.19	0.18	0.17	0.20	0.20	0.20	0.24	0.27	0.26	0.27	0.27	0.26	0.23
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**7.47**	**7.39**	**6.42**	**4.70**	**5.95**	**5.72**	**4.83**	**5.54**	**5.08**	**5.08**	**5.20**	**5.77**	**5.76**

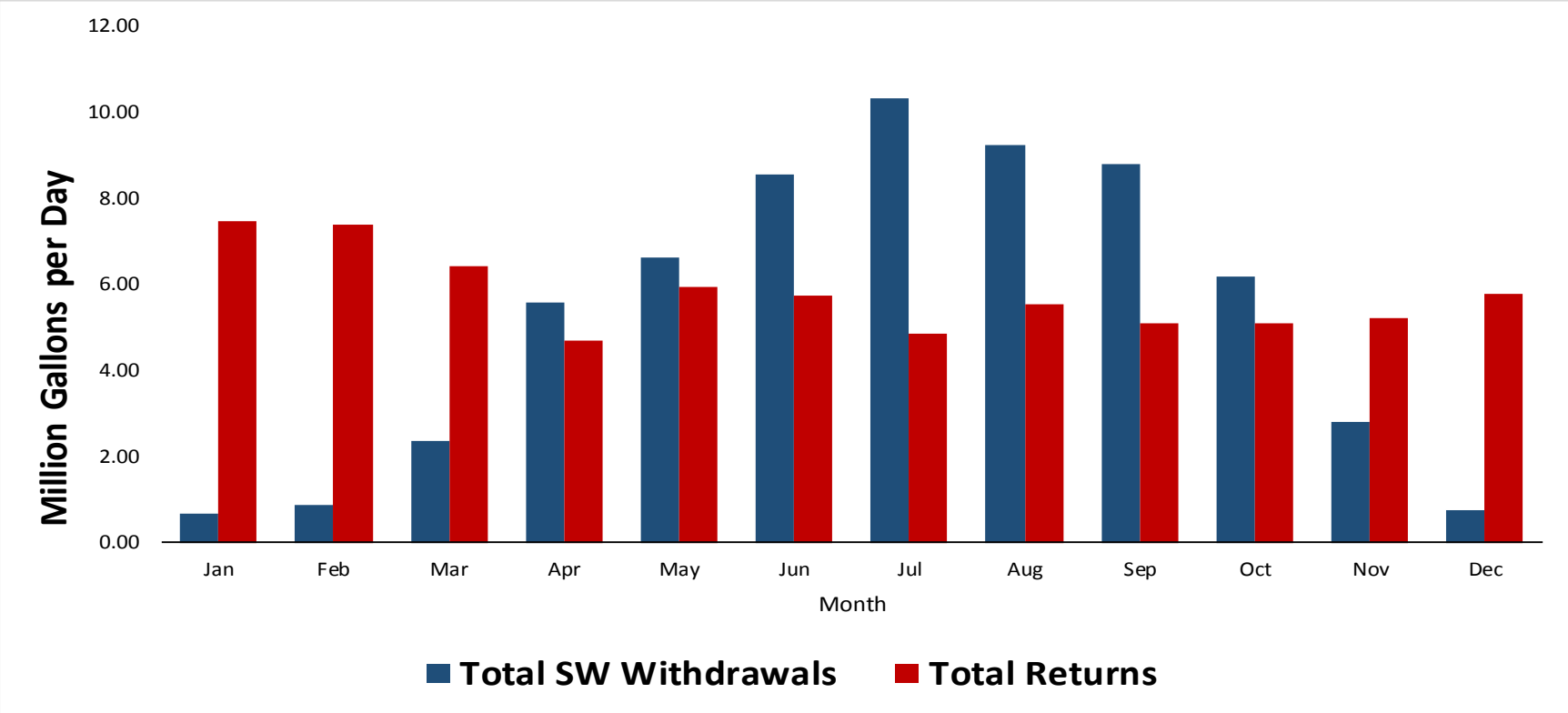
03160205-Mobile Bay

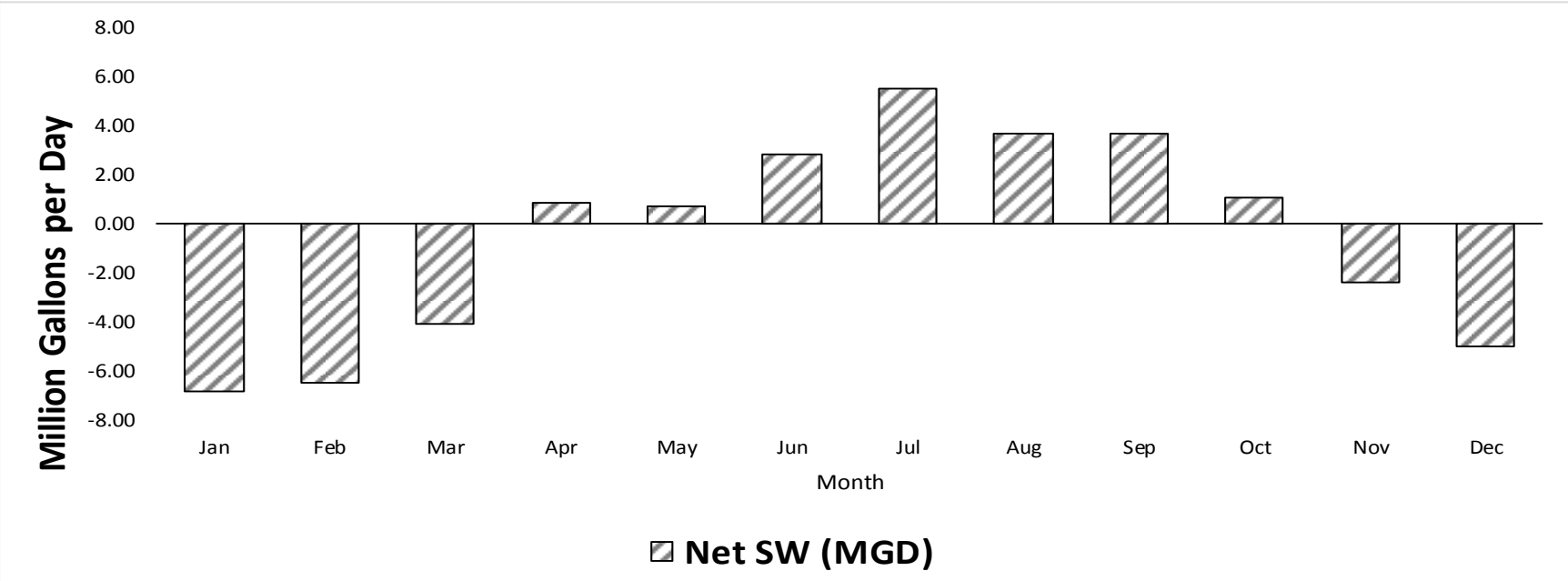
2010 FINAL DATA

Total SW Withdrawals	SW	0.65	0.88	2.36	5.58	6.63	8.56	10.31	9.24	8.78	6.16	2.79	0.76	5.22
Total GW Withdrawals	GW	17.58	16.52	19.64	30.40	31.92	35.93	39.54	35.70	37.26	32.80	20.86	16.57	27.89
Withdrawal Total		18.24	17.40	22.00	35.98	38.54	44.49	49.85	44.94	46.04	38.96	23.65	17.33	33.12
Total Returns		**7.47**	**7.39**	**6.42**	**4.70**	**5.95**	**5.72**	**4.83**	**5.54**	**5.08**	**5.08**	**5.20**	**5.77**	**5.76**
Net SW (MGD)	SW	**-6.82**	**-6.51**	**-4.06**	**0.88**	**0.68**	**2.84**	**5.48**	**3.70**	**3.69**	**1.08**	**-2.41**	**-5.01**	**-0.54**

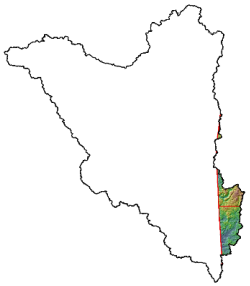
03160205-Mobile Bay

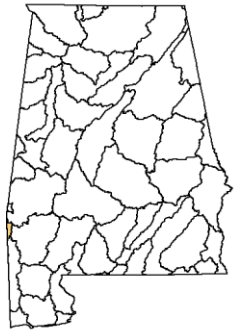
2010 FINAL DATA





03170002-Upper Chickasawhay





Area in AL (Square Miles)	65.1
Estimated Population (2010)*	1,058

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Pascagoula

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.01
Agriculture	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	**SW**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
Total	**GW**	**0.04**	**0.04**	**0.04**	**0.05**	**0.05**	**0.06**	**0.06**	**0.05**	**0.05**	**0.05**	**0.04**	**0.04**	**0.05**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

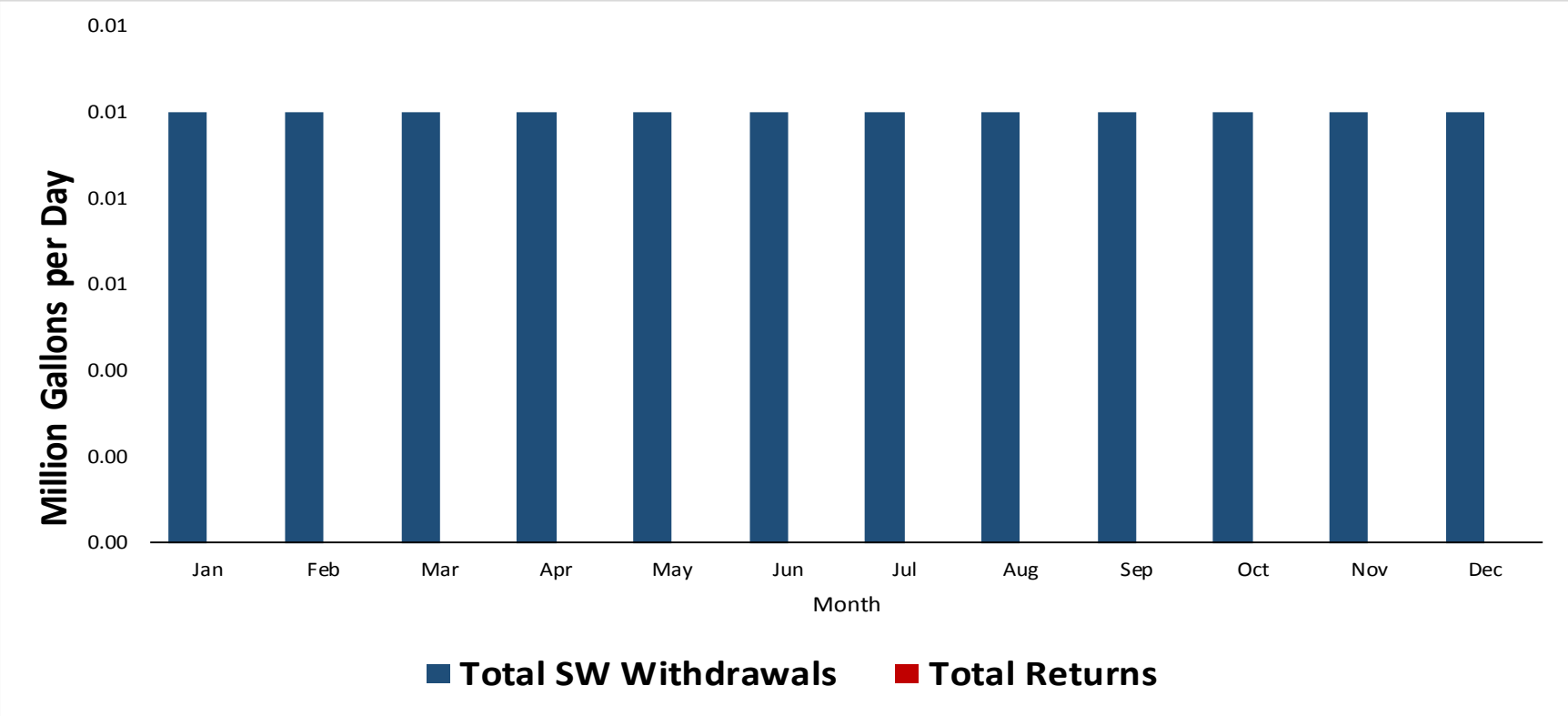
03170002-Upper Chickasawhay

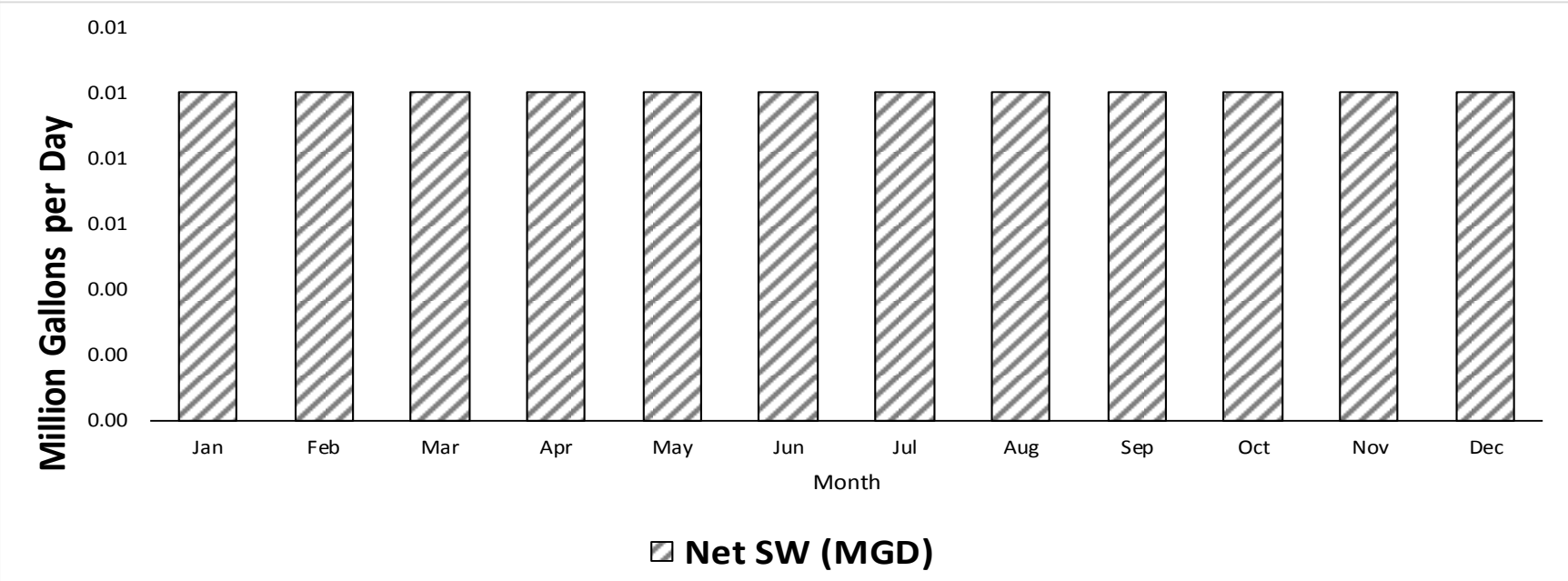
2010 FINAL DATA

Total SW Withdrawals	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total GW Withdrawals	GW	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.05
Withdrawal Total		0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.06
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**

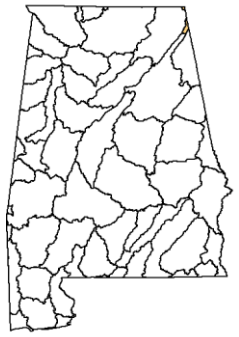
03170002-Upper Chickasawhay

2010 FINAL DATA





03170003-Lower Chickasawhay



Area in AL (Square Miles)	0.7
Estimated Population (2010)*	6

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Pascagoula

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**SW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**GW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

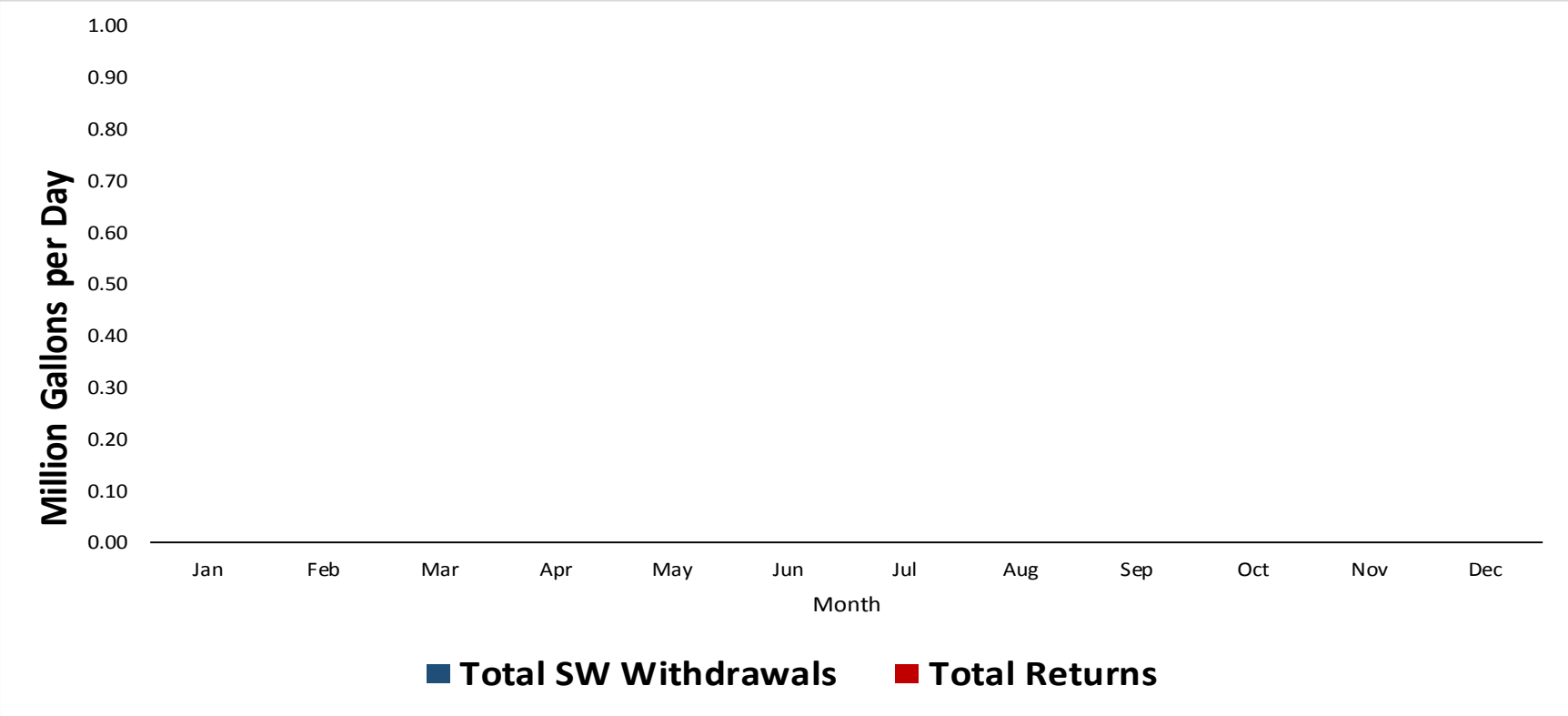
03170003-Lower Chickasawhay

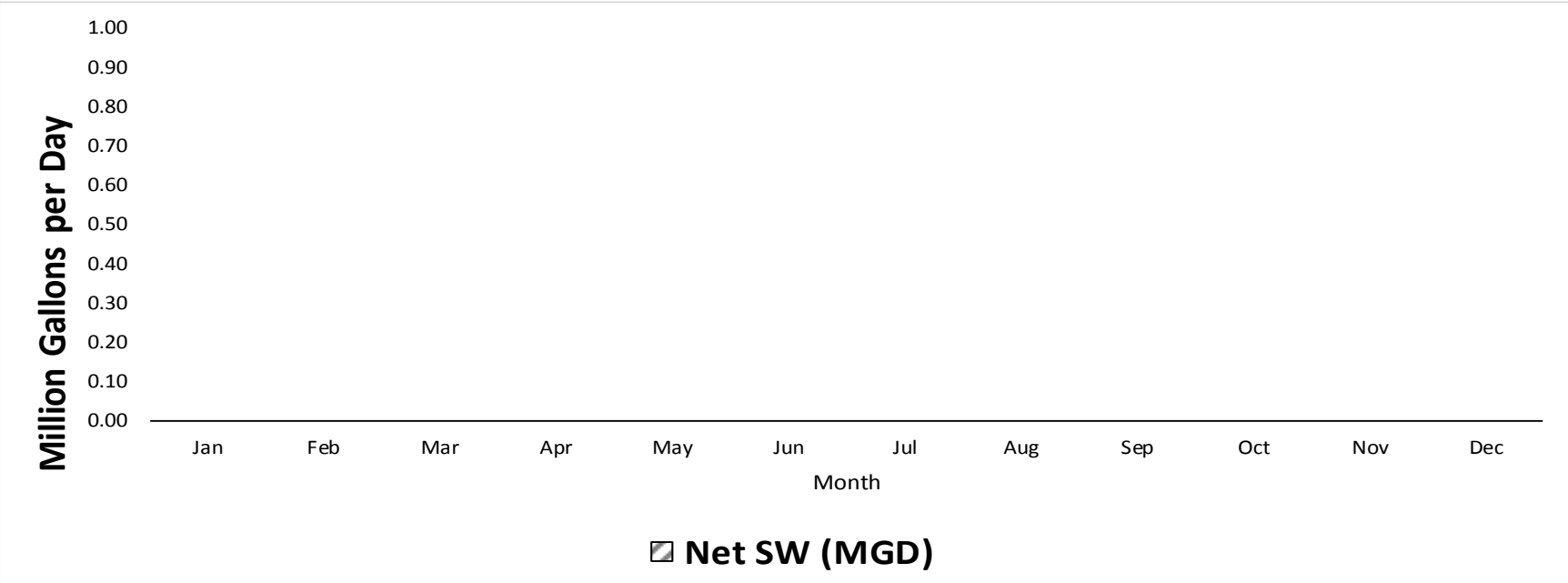
2010 FINAL DATA

Total SW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total GW Withdrawals	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Withdrawal Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

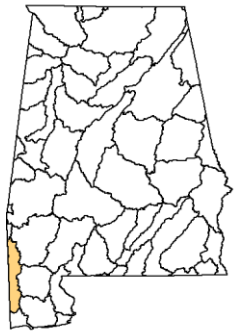
03170003-Lower Chickasawhay

2010 FINAL DATA





03170008-Escatawpa



Area in AL (Square Miles)	702.9
Estimated Population (2010)*	73,129

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Pascagoula

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	6.56	5.34	5.54	6.15	6.02	6.37	6.16	6.38	6.16	6.09	5.44	5.58	5.98
Public Supply	SW	73.24	66.94	66.45	70.17	69.53	74.59	72.00	72.87	73.20	69.67	67.32	66.80	70.23
Industrial/Mining	GW	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.59	0.70	1.27	2.85	3.28	4.27	4.89	3.98	3.97	3.15	1.39	0.76	2.59
Agriculture	SW	0.13	0.16	0.21	0.57	0.86	1.26	1.44	1.23	1.11	0.73	0.25	0.13	0.67
Total	**SW**	**73.37**	**67.10**	**66.66**	**70.74**	**70.39**	**75.85**	**73.44**	**74.10**	**74.31**	**70.40**	**67.57**	**66.93**	**70.91**
Total	**GW**	**7.22**	**6.11**	**6.88**	**9.06**	**9.38**	**10.71**	**11.12**	**10.43**	**10.20**	**9.31**	**6.90**	**6.41**	**8.64**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.62	0.67	0.36	0.22	0.45	0.24	0.23	0.32	0.36	0.20	0.48	0.29	0.37
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.62**	**0.67**	**0.36**	**0.22**	**0.45**	**0.24**	**0.23**	**0.32**	**0.36**	**0.20**	**0.48**	**0.29**	**0.37**

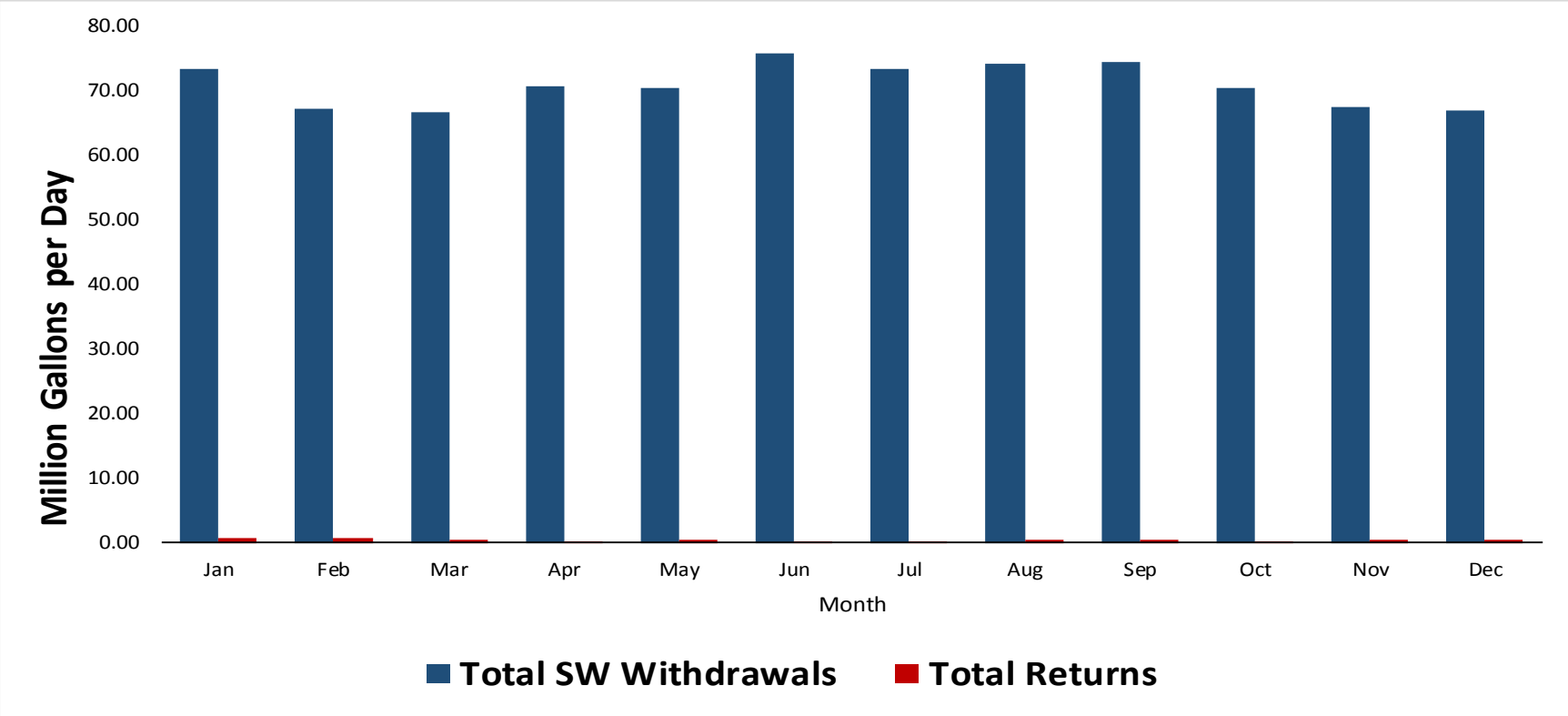
03170008-Escatawpa

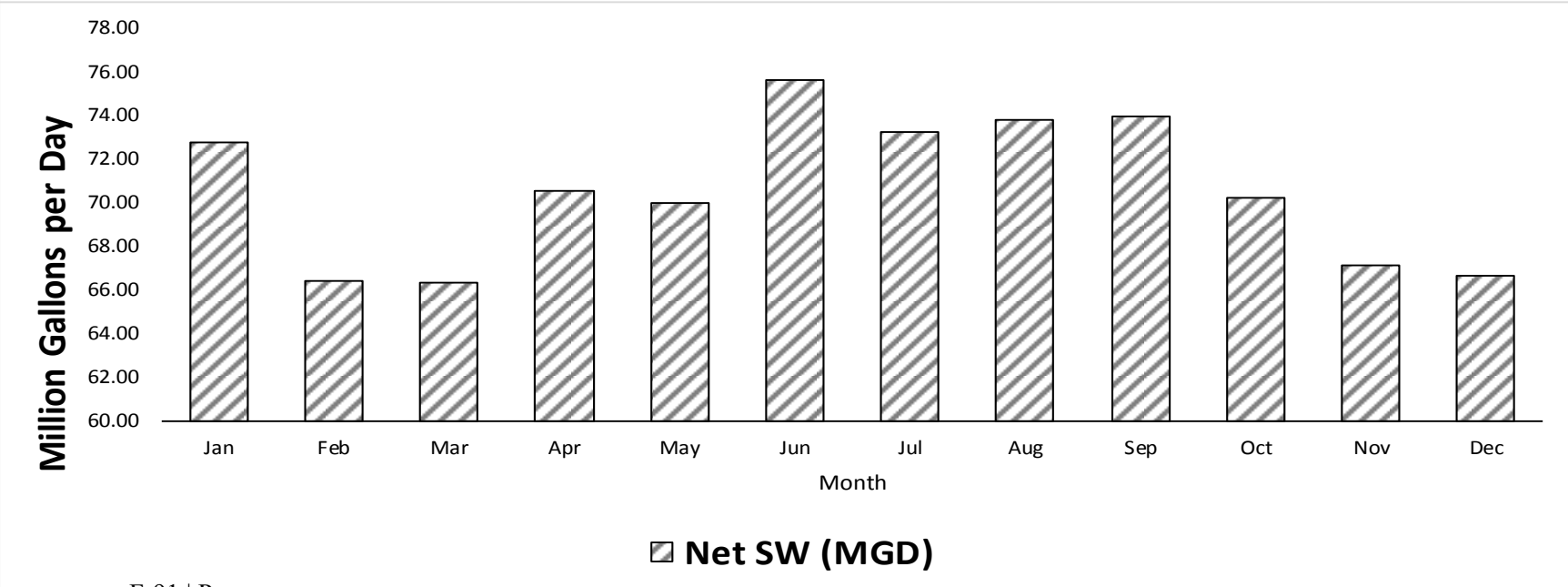
2010 FINAL DATA

Total SW Withdrawals	SW	73.37	67.10	66.66	70.74	70.39	75.85	73.44	74.10	74.31	70.40	67.57	66.93	70.91
Total GW Withdrawals	GW	7.22	6.11	6.88	9.06	9.38	10.71	11.12	10.43	10.20	9.31	6.90	6.41	8.64
Withdrawal Total		80.58	73.20	73.55	79.80	79.77	86.57	84.56	84.53	84.51	79.70	74.48	73.34	79.55
Total Returns		**0.62**	**0.67**	**0.36**	**0.22**	**0.45**	**0.24**	**0.23**	**0.32**	**0.36**	**0.20**	**0.48**	**0.29**	**0.37**
Net SW (MGD)	SW	**72.75**	**66.42**	**66.31**	**70.51**	**69.95**	**75.61**	**73.21**	**73.78**	**73.95**	**70.20**	**67.09**	**66.64**	**70.54**

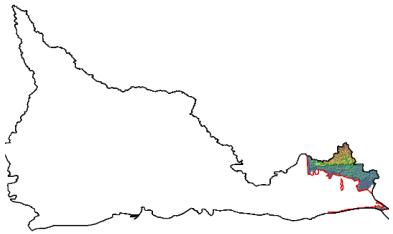
03170008-Escatawpa

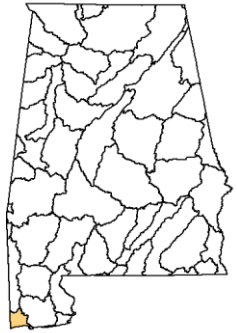
2010 FINAL DATA





03170009-Mississippi Coastal





Area in AL (Square Miles)	320.0
Estimated Population (2010)*	14,007

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Pascagoula

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.54	1.41	1.42	1.64	1.63	1.68	1.74	1.78	1.71	1.67	1.63	1.38	1.60
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.31	0.37	0.68	1.54	1.78	2.31	2.64	2.15	2.16	1.71	0.75	0.40	1.40
Agriculture	SW	0.06	0.08	0.12	0.33	0.51	0.73	0.84	0.71	0.65	0.43	0.15	0.06	0.39
Total	**SW**	**0.06**	**0.08**	**0.12**	**0.33**	**0.51**	**0.73**	**0.84**	**0.71**	**0.65**	**0.43**	**0.15**	**0.06**	**0.39**
Total	**GW**	**1.88**	**1.80**	**2.13**	**3.21**	**3.44**	**4.01**	**4.41**	**3.96**	**3.90**	**3.41**	**2.41**	**1.81**	**3.03**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.18	1.13	1.08	0.89	0.96	0.98	0.99	1.17	0.98	0.81	0.76	0.71	0.97
Industrial/Mining		0.33	1.12	0.27	0.37	0.28	0.36	0.35	0.32	0.32	0.31	0.26	0.41	0.39
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.52**	**2.25**	**1.35**	**1.26**	**1.24**	**1.34**	**1.34**	**1.50**	**1.30**	**1.11**	**1.03**	**1.11**	**1.36**

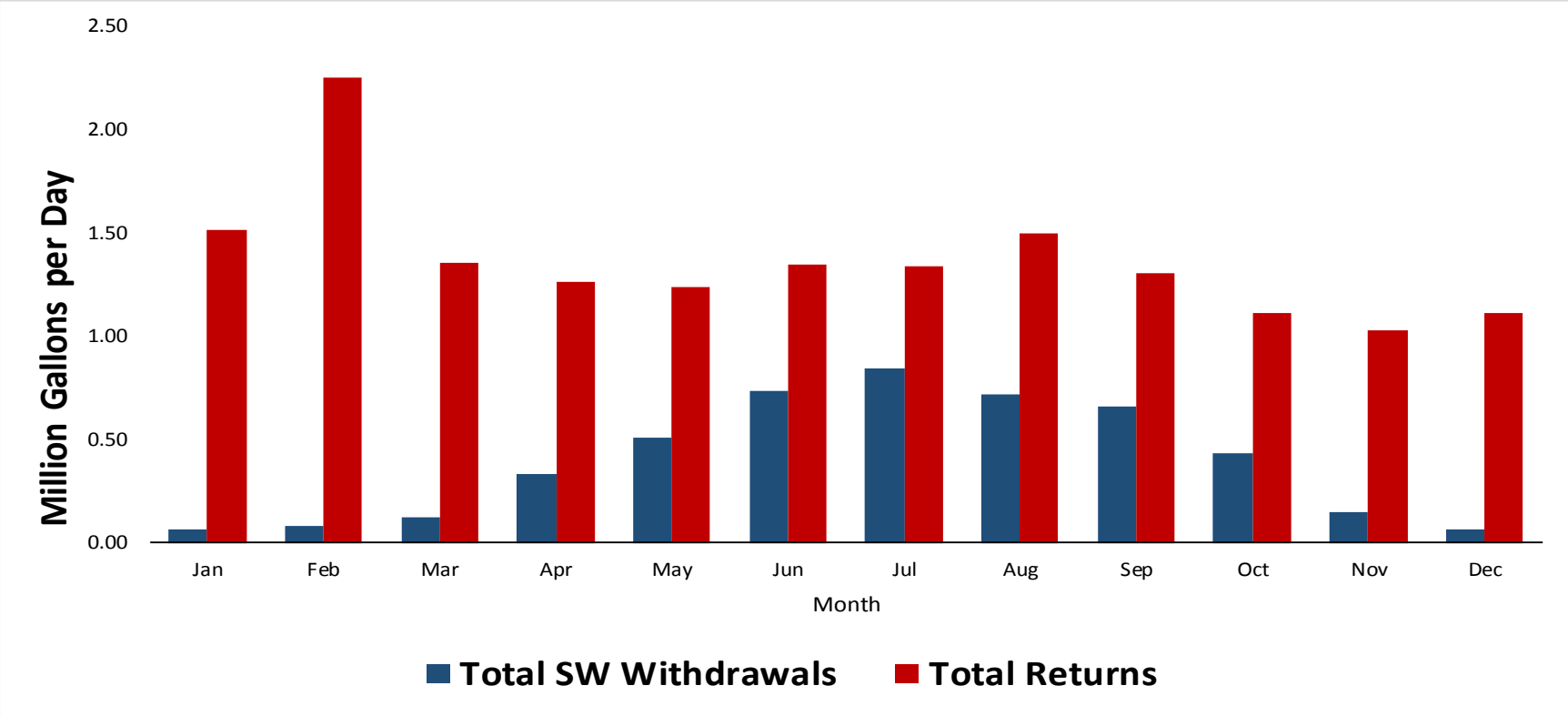
03170009-Mississippi Coastal

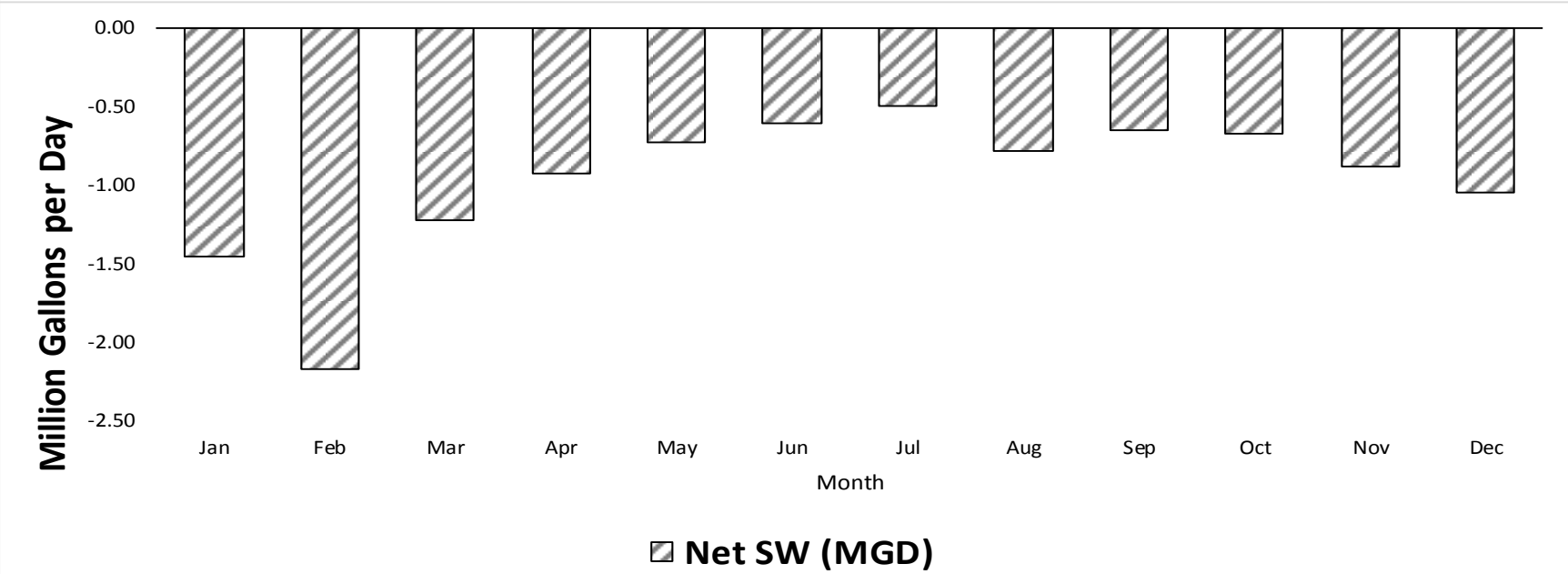
2010 FINAL DATA

Total SW Withdrawals	SW	0.06	0.08	0.12	0.33	0.51	0.73	0.84	0.71	0.65	0.43	0.15	0.06	0.39
Total GW Withdrawals	GW	1.88	1.80	2.13	3.21	3.44	4.01	4.41	3.96	3.90	3.41	2.41	1.81	3.03
Withdrawal Total		1.94	1.88	2.25	3.54	3.94	4.74	5.26	4.67	4.55	3.84	2.55	1.87	3.42
Total Returns		**1.52**	**2.25**	**1.35**	**1.26**	**1.24**	**1.34**	**1.34**	**1.50**	**1.30**	**1.11**	**1.03**	**1.11**	**1.36**
Net SW (MGD)	SW	**-1.46**	**-2.18**	**-1.23**	**-0.93**	**-0.73**	**-0.61**	**-0.50**	**-0.78**	**-0.65**	**-0.68**	**-0.88**	**-1.05**	**-0.97**

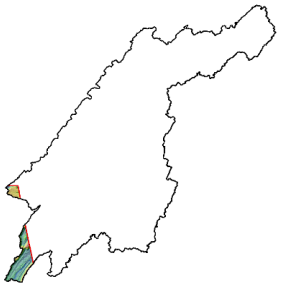
03170009-Mississippi Coastal

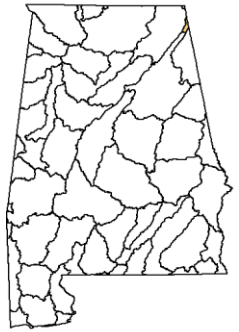
2010 FINAL DATA





06020001-Middle Tennesse-Chickamauga





Area in AL (Square Miles) 53.4

Estimated Population (2010)* 1,133

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-HiWassee

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	0.37	0.37	0.38	0.38	0.39	0.41	0.44	0.42	0.42	0.08	0.08	0.08	0.32
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.07	0.07	0.07	0.09	0.10	0.11	0.12	0.11	0.10	0.09	0.07	0.07	0.09
Agriculture	SW	0.09	0.09	0.11	0.16	0.18	0.22	0.24	0.21	0.20	0.17	0.11	0.09	0.16
Total	**SW**	**0.09**	**0.09**	**0.11**	**0.16**	**0.18**	**0.22**	**0.25**	**0.21**	**0.20**	**0.17**	**0.11**	**0.09**	**0.16**
Total	**GW**	**0.44**	**0.44**	**0.45**	**0.47**	**0.49**	**0.53**	**0.56**	**0.53**	**0.53**	**0.18**	**0.16**	**0.16**	**0.41**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

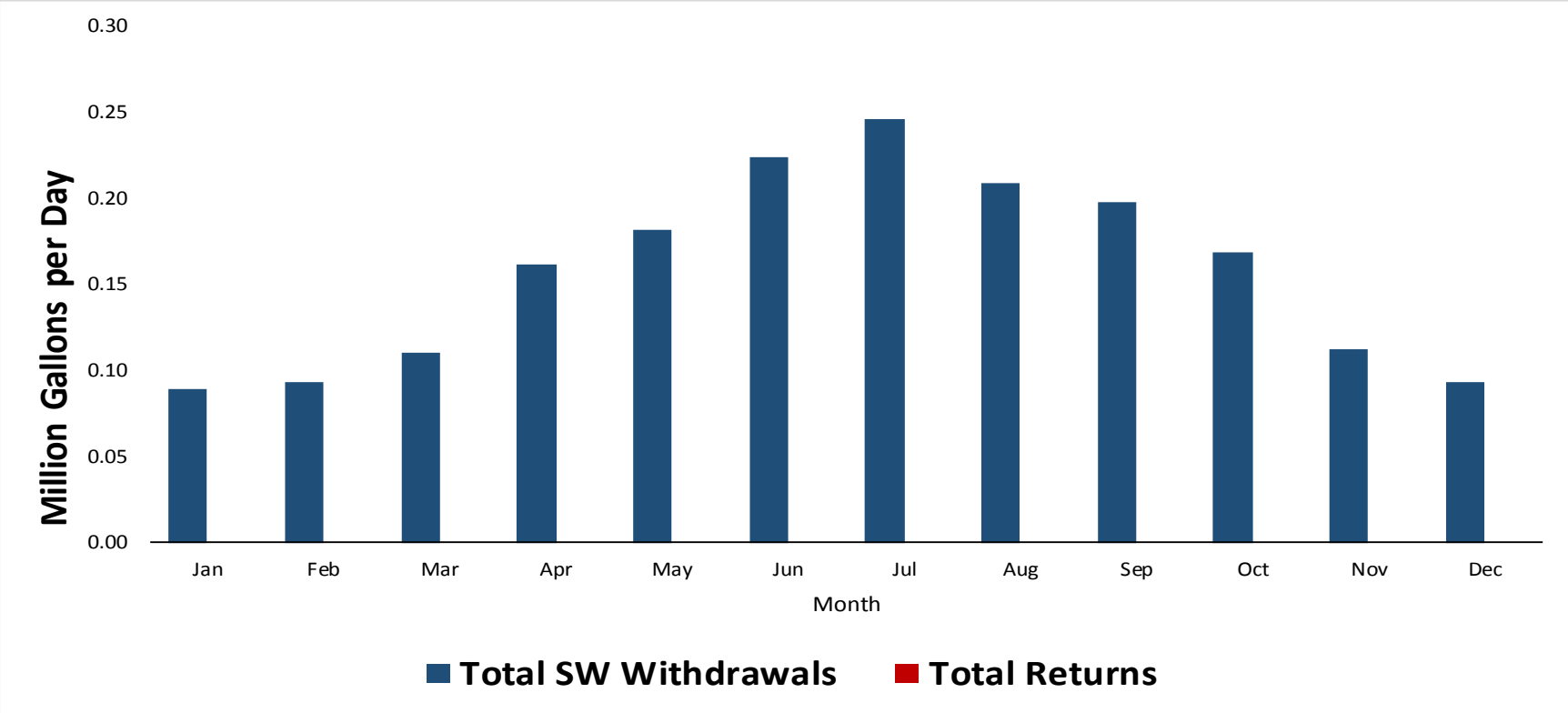
06020001-Middle Tennesse-Chickamauga

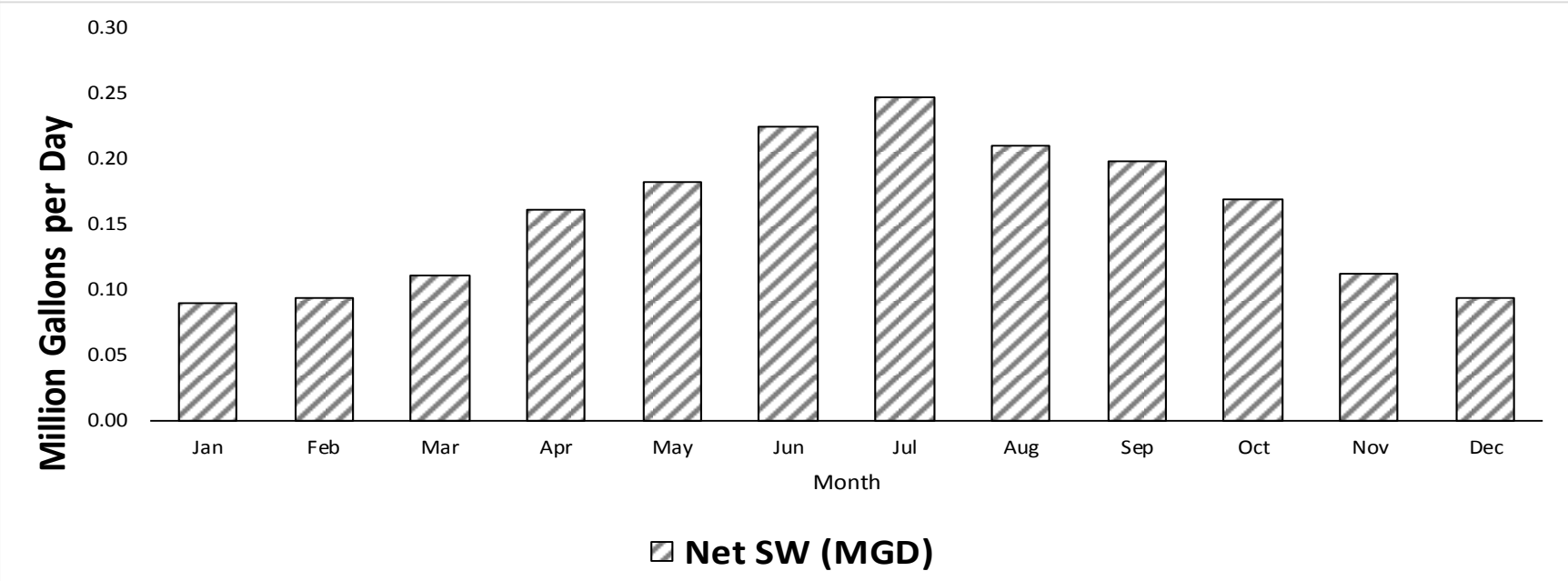
2010 FINAL DATA

Total SW Withdrawals	SW	0.09	0.09	0.11	0.16	0.18	0.22	0.25	0.21	0.20	0.17	0.11	0.09	0.16
Total GW Withdrawals	GW	0.44	0.44	0.45	0.47	0.49	0.53	0.56	0.53	0.53	0.18	0.16	0.16	0.41
Withdrawal Total		0.53	0.53	0.56	0.63	0.67	0.75	0.80	0.74	0.72	0.35	0.27	0.25	0.57
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.09**	**0.09**	**0.11**	**0.16**	**0.18**	**0.22**	**0.25**	**0.21**	**0.20**	**0.17**	**0.11**	**0.09**	**0.16**

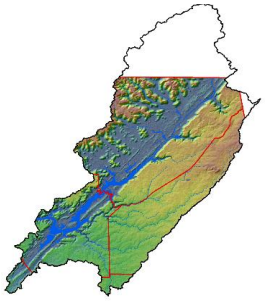
06020001-Middle Tennesse-Chickamauga

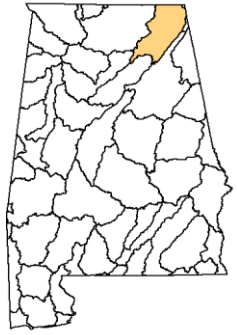
2010 FINAL DATA





06030001-Guntersville Lake





Area in AL (Square Miles) 1,647.0

Estimated Population (2010)* 147,417

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-Elk

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	6.41	6.27	7.74	6.03	7.00	5.88	5.85	8.44	6.13	7.75	5.35	7.29	6.68
Public Supply	SW	32.17	30.61	29.67	30.59	31.21	34.16	37.52	37.22	36.29	33.66	30.91	31.62	32.97
Industrial/Mining	GW	0.36	1.33	1.33	0.40	0.40	0.27	0.44	0.42	0.45	0.45	0.40	0.35	0.55
Industrial/Mining	SW	9.12	8.69	8.20	8.50	8.80	8.76	9.66	9.46	9.36	9.03	8.91	9.26	8.98
Thermoelectric	SW	1321.70	1192.80	1045.00	1030.10	902.90	1257.60	1014.20	1262.50	1066.10	992.20	676.40	781.10	1045.22
Agriculture	GW	1.25	1.28	1.42	1.80	1.88	2.08	2.22	2.03	2.07	1.88	1.45	1.29	1.72
Agriculture	SW	1.53	1.65	1.98	3.37	4.46	6.04	6.75	5.73	5.13	3.83	2.08	1.58	3.68
Total	**SW**	**1364.52**	**1233.75**	**1084.85**	**1072.56**	**947.37**	**1306.56**	**1068.13**	**1314.92**	**1116.88**	**1038.73**	**718.30**	**823.55**	**1090.84**
Total	**GW**	**8.02**	**8.88**	**10.49**	**8.23**	**9.28**	**8.22**	**8.51**	**10.89**	**8.65**	**10.08**	**7.21**	**8.94**	**8.95**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		15.89	18.20	16.87	13.46	14.52	12.65	10.17	10.24	9.55	9.63	10.48	12.13	12.81
Industrial/Mining		8.78	8.59	8.31	7.39	8.27	7.99	7.45	7.40	7.26	7.65	8.48	8.40	8.00
Thermoelectric		1351.44	1250.70	1073.33	1079.64	972.10	1292.92	1047.65	1295.60	1100.41	1024.74	697.85	801.37	1082.31
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1376.10**	**1277.48**	**1098.50**	**1100.49**	**994.88**	**1313.56**	**1065.27**	**1313.24**	**1117.21**	**1042.02**	**716.81**	**821.89**	**1103.12**

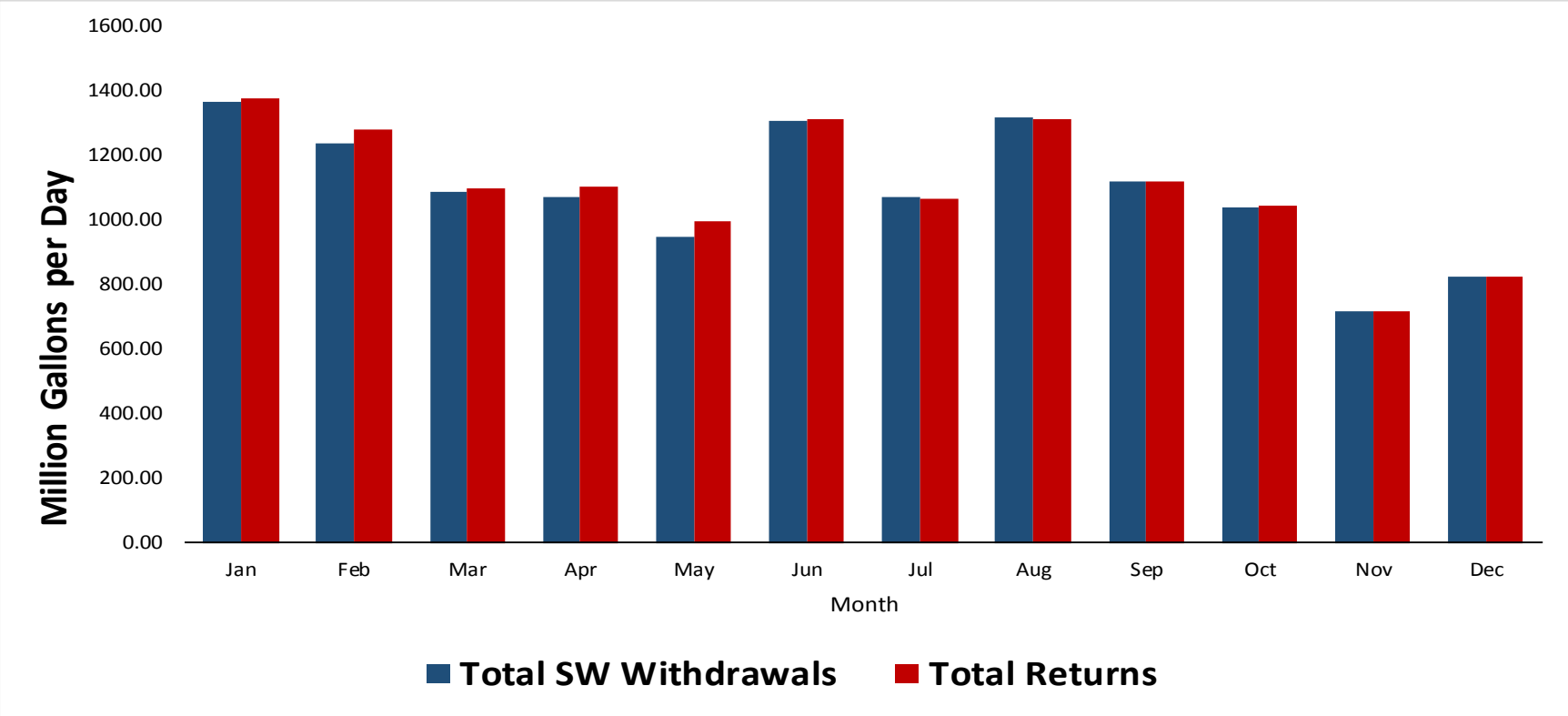
06030001-Guntersville Lake

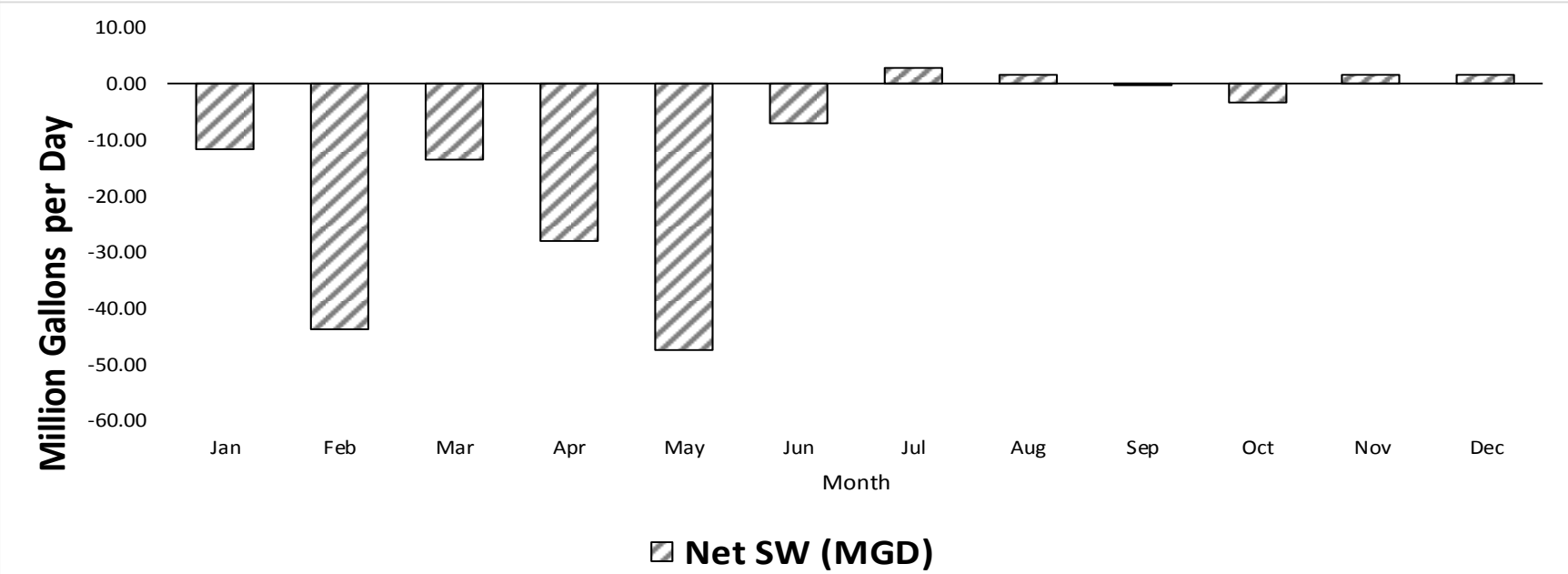
2010 FINAL DATA

Total SW Withdrawals	SW	1364.52	1233.75	1084.85	1072.56	947.37	1306.56	1068.13	1314.92	1116.88	1038.73	718.30	823.55	1090.84
Total GW Withdrawals	GW	8.02	8.88	10.49	8.23	9.28	8.22	8.51	10.89	8.65	10.08	7.21	8.94	8.95
Withdrawal Total		1372.54	1242.63	1095.34	1080.79	956.65	1314.78	1076.64	1325.81	1125.53	1048.81	725.51	832.49	1099.79
Total Returns		**1376.10**	**1277.48**	**1098.50**	**1100.49**	**994.88**	**1313.56**	**1065.27**	**1313.24**	**1117.21**	**1042.02**	**716.81**	**821.89**	**1103.12**
Net SW (MGD)	SW	**-11.58**	**-43.73**	**-13.66**	**-27.93**	**-47.51**	**-7.00**	**2.86**	**1.68**	**-0.33**	**-3.29**	**1.49**	**1.66**	**-12.28**

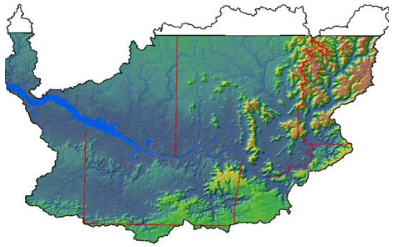
06030001-Guntersville Lake

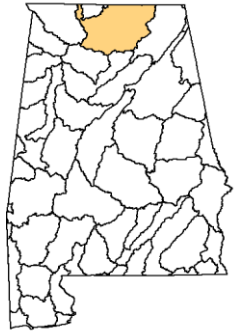
2010 FINAL DATA





06030002-Wheeler Lake





Area in AL (Square Miles) 2,663.7

Estimated Population (2010)* 574,955

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-Elk

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	30.54	30.64	31.01	33.71	35.24	36.57	41.27	39.55	35.02	33.32	30.30	31.37	34.04
Public Supply	SW	70.97	67.00	61.60	70.95	77.49	84.23	100.04	98.92	93.05	84.67	68.65	64.90	78.54
Industrial/Mining	GW	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Industrial/Mining	SW	124.33	137.30	133.23	136.21	147.59	158.33	149.50	155.64	139.82	147.94	135.71	112.84	139.87
Thermoelectric	SW	2912.83	2766.43	1867.73	2918.33	2931.83	2925.03	2833.63	2558.73	2931.83	2698.53	2507.93	2931.83	2732.06
Agriculture	GW	1.69	2.04	2.85	5.44	7.83	11.93	13.39	10.22	7.53	5.51	2.73	1.89	6.09
Agriculture	SW	2.36	2.98	4.32	9.26	14.47	22.22	25.30	20.23	15.45	10.28	4.39	2.46	11.14
Total	**SW**	**3110.49**	**2973.71**	**2066.88**	**3134.75**	**3171.38**	**3189.81**	**3108.47**	**2833.52**	**3180.15**	**2941.42**	**2716.68**	**3112.02**	**2961.61**
Total	**GW**	**32.85**	**33.31**	**34.48**	**39.77**	**43.70**	**49.12**	**55.29**	**50.39**	**43.17**	**39.46**	**33.66**	**33.89**	**40.76**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		90.70	101.91	86.94	70.89	69.04	63.62	57.30	56.20	51.80	51.19	57.82	64.33	68.48
Industrial/Mining		137.59	144.03	146.13	133.12	155.88	164.35	153.01	158.26	150.86	146.09	138.15	117.30	145.40
Thermoelectric		2908.03	2760.16	1868.48	2912.74	2926.77	2922.77	2828.16	2554.66	2926.48	2698.87	2508.68	2929.75	2728.80
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**3136.32**	**3006.10**	**2101.55**	**3116.75**	**3151.69**	**3150.74**	**3038.47**	**2769.12**	**3129.14**	**2896.15**	**2704.65**	**3111.38**	**2942.67**

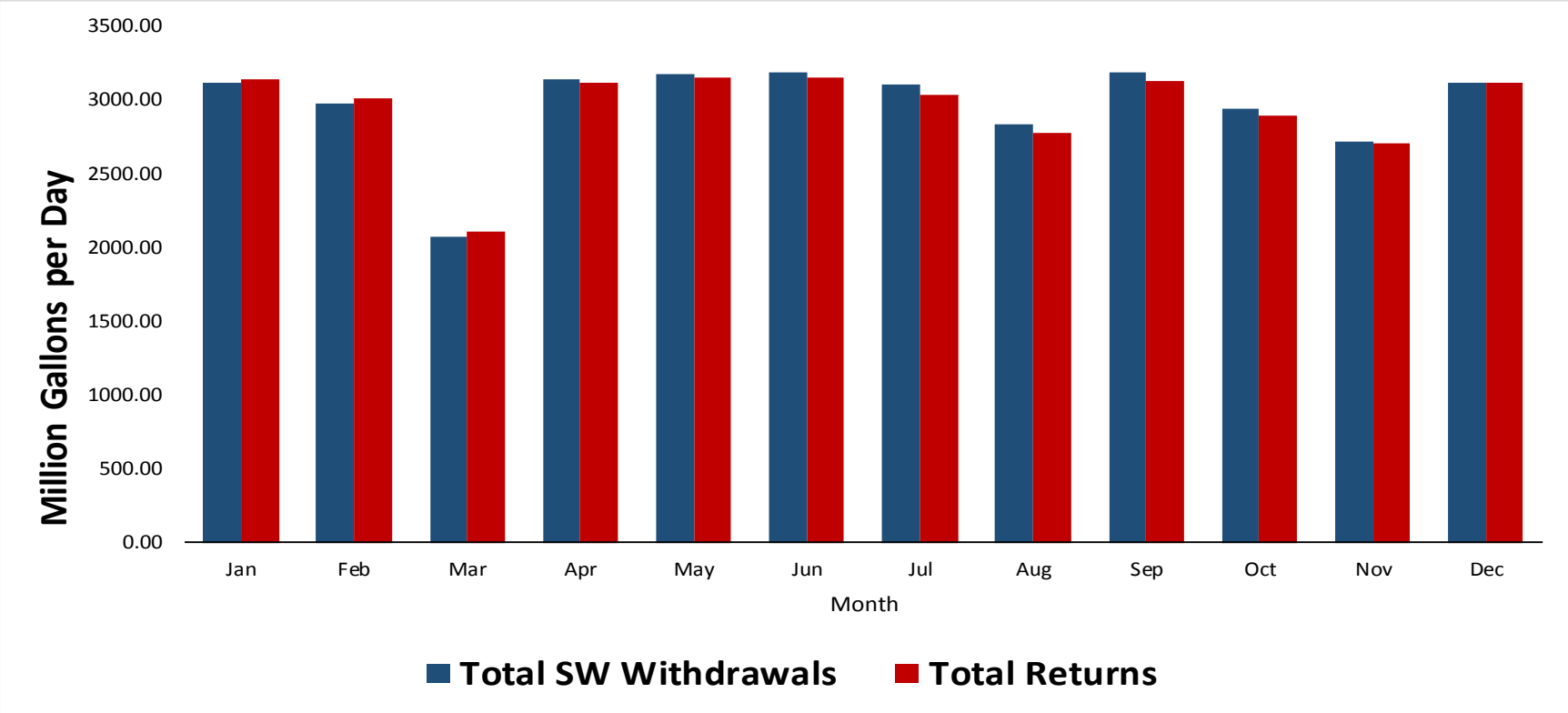
06030002-Wheeler Lake

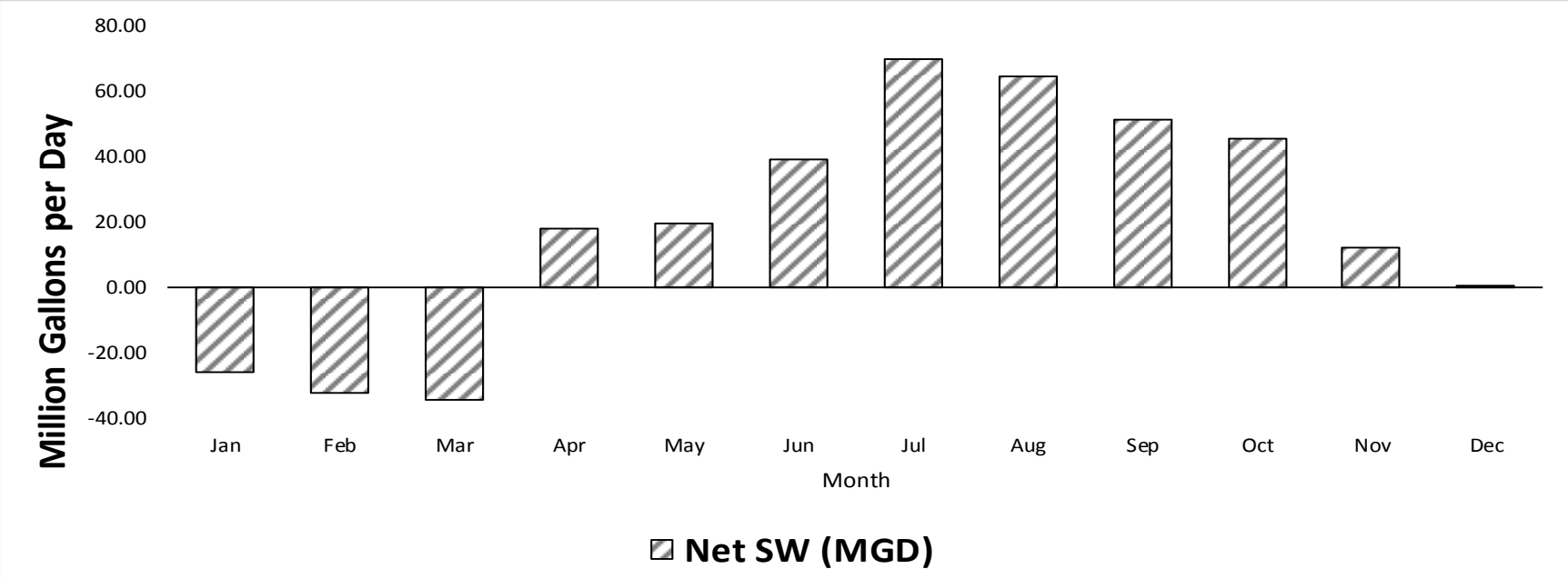
2010 FINAL DATA

Total SW Withdrawals	SW	3110.49	2973.71	2066.88	3134.75	3171.38	3189.81	3108.47	2833.52	3180.15	2941.42	2716.68	3112.02	2961.61
Total GW Withdrawals	GW	32.85	33.31	34.48	39.77	43.70	49.12	55.29	50.39	43.17	39.46	33.66	33.89	40.76
Withdrawal Total		3143.35	3007.02	2101.36	3174.52	3215.08	3238.93	3163.76	2883.92	3223.31	2980.87	2750.33	3145.91	3002.36
Total Returns		**3136.32**	**3006.10**	**2101.55**	**3116.75**	**3151.69**	**3150.74**	**3038.47**	**2769.12**	**3129.14**	**2896.15**	**2704.65**	**3111.38**	**2942.67**
Net SW (MGD)	SW	**-25.83**	**-32.39**	**-34.67**	**18.00**	**19.69**	**39.08**	**70.00**	**64.40**	**51.01**	**45.27**	**12.03**	**0.64**	**18.93**

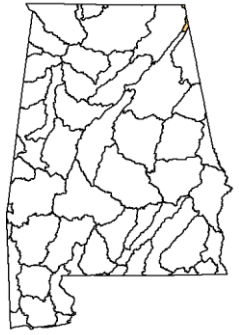
06030002-Wheeler Lake

2010 FINAL DATA





06030003-Elk



Area in AL (Square Miles) 0.4

Estimated Population (2010)* 4

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-Elk

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**SW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**GW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

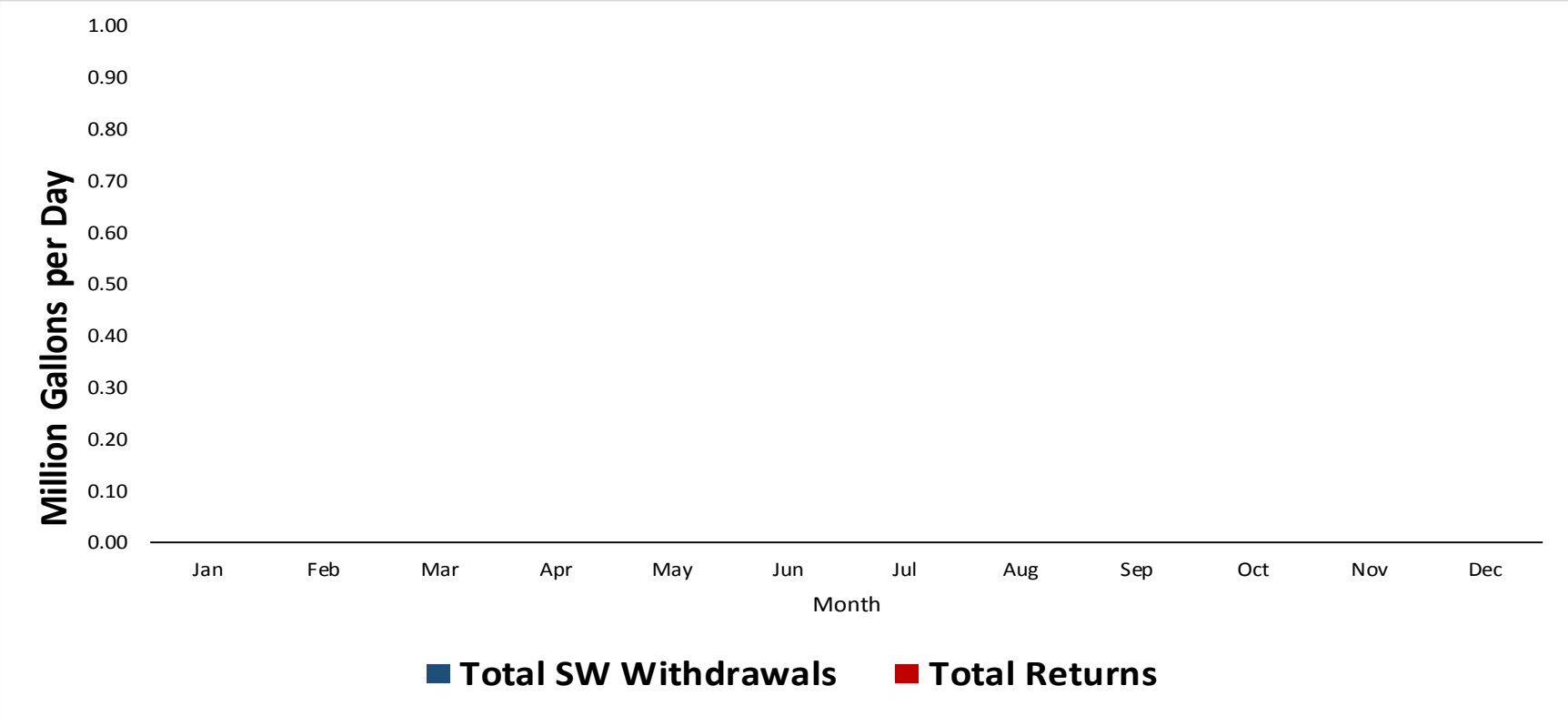
06030003-Elk

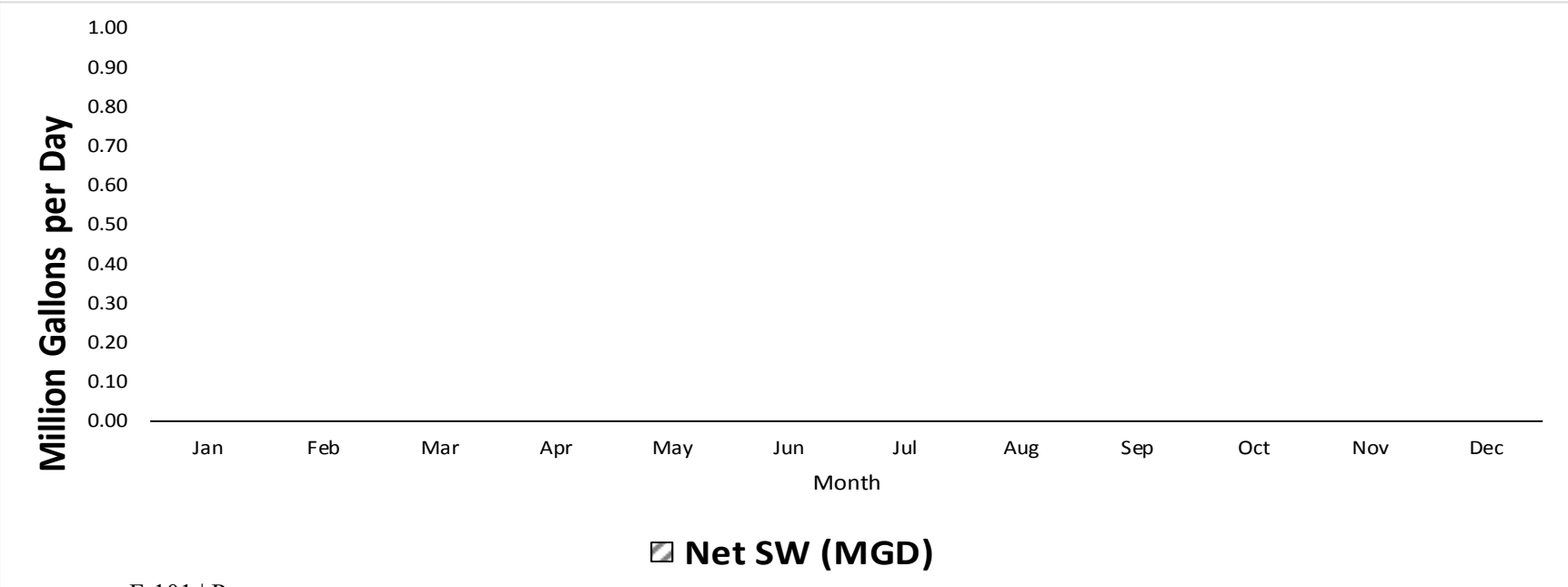
2010 FINAL DATA

Total SW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total GW Withdrawals	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Withdrawal Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	SW	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

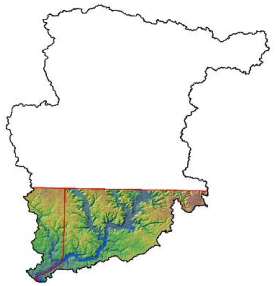
06030003-Elk

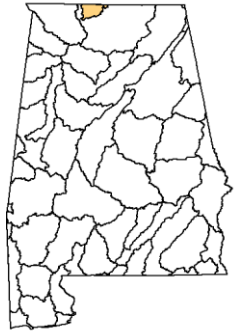
2010 FINAL DATA





06030004-Lower Elk





Area in AL (Square Miles)	249.5
Estimated Population (2010)*	16,783

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-Elk

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Public Supply	SW	7.94	7.59	7.61	7.74	7.91	8.25	9.44	9.68	8.69	7.93	7.60	6.98	8.11
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.16	0.19	0.29	0.58	0.74	1.03	1.17	0.92	0.80	0.62	0.30	0.19	0.58
Agriculture	SW	0.22	0.34	0.50	1.14	2.13	3.69	4.16	3.03	1.79	1.10	0.41	0.24	1.56
Total	**SW**	**8.49**	**8.27**	**8.44**	**9.21**	**10.37**	**12.27**	**13.94**	**13.05**	**10.81**	**9.36**	**8.34**	**7.55**	**10.01**
Total	**GW**	**0.48**	**0.50**	**0.60**	**0.89**	**1.05**	**1.35**	**1.48**	**1.24**	**1.11**	**0.93**	**0.61**	**0.50**	**0.90**

Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.14	0.22	0.19	0.15	0.13	0.16	0.46	0.49	0.51	0.52	0.51	0.52	0.33
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.14**	**0.22**	**0.19**	**0.15**	**0.13**	**0.16**	**0.47**	**0.49**	**0.51**	**0.52**	**0.51**	**0.52**	**0.33**

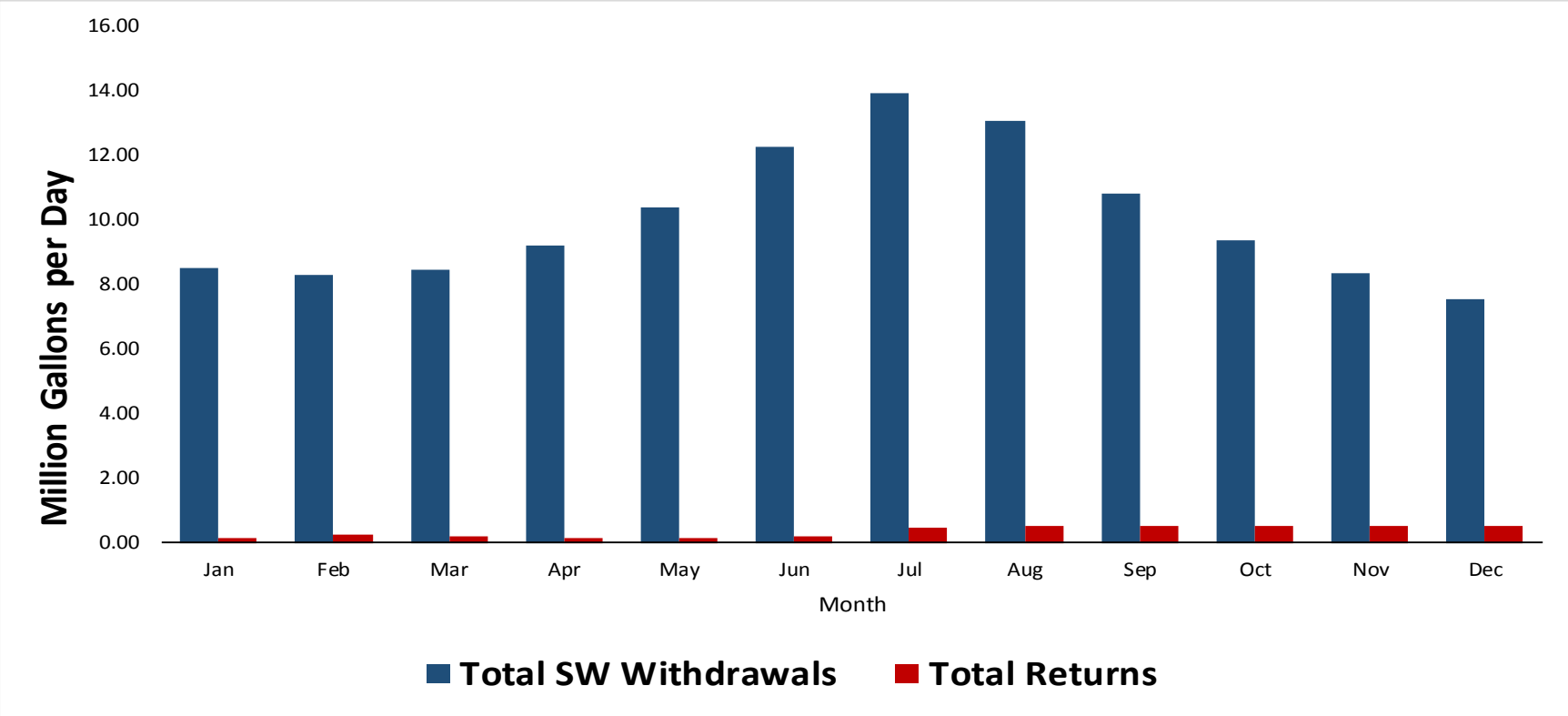
06030004-Lower Elk

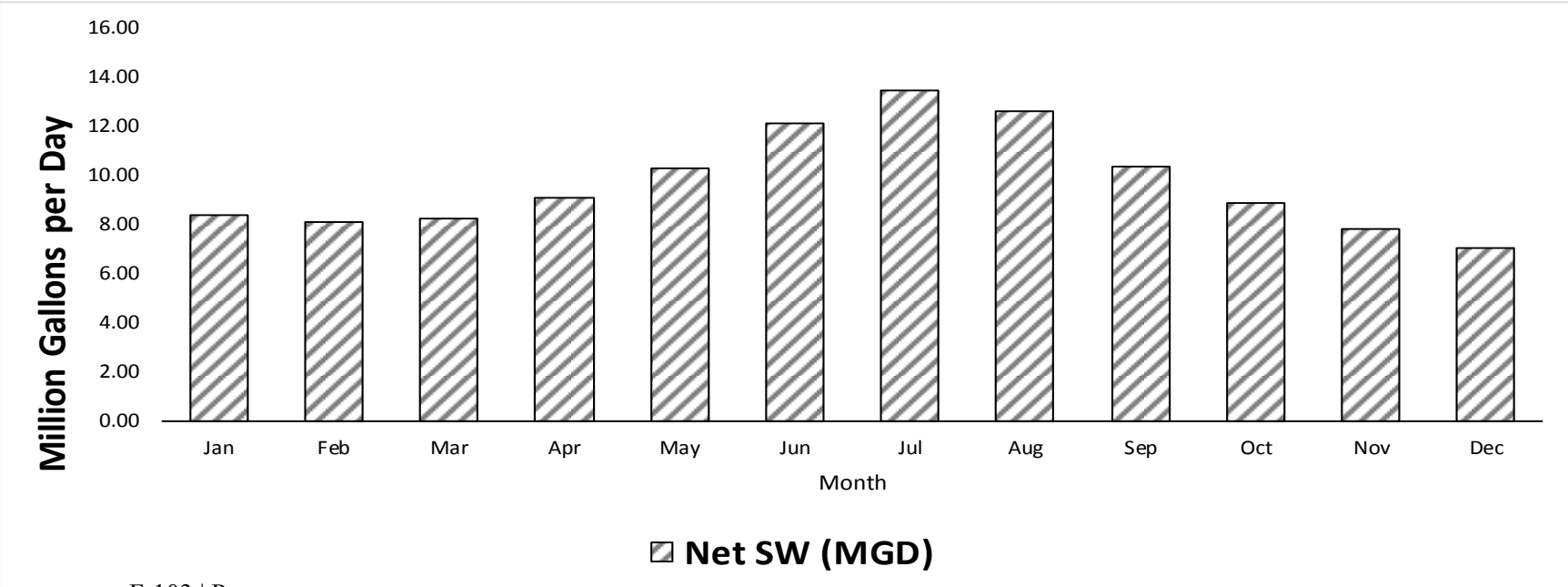
2010 FINAL DATA

Total SW Withdrawals	SW	8.49	8.27	8.44	9.21	10.37	12.27	13.94	13.05	10.81	9.36	8.34	7.55	10.01
Total GW Withdrawals	GW	0.48	0.50	0.60	0.89	1.05	1.35	1.48	1.24	1.11	0.93	0.61	0.50	0.90
Withdrawal Total		8.97	8.77	9.04	10.10	11.42	13.62	15.42	14.28	11.92	10.29	8.95	8.05	10.90
Total Returns		**0.14**	**0.22**	**0.19**	**0.15**	**0.13**	**0.16**	**0.47**	**0.49**	**0.51**	**0.52**	**0.51**	**0.52**	**0.33**
Net SW (MGD)	SW	**8.35**	**8.05**	**8.25**	**9.06**	**10.24**	**12.11**	**13.47**	**12.56**	**10.30**	**8.84**	**7.83**	**7.03**	**9.67**

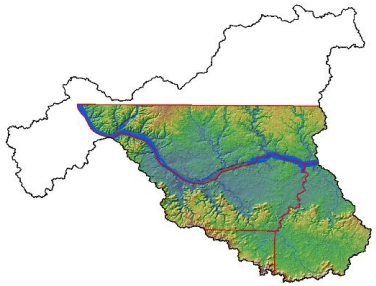
06030004-Lower Elk

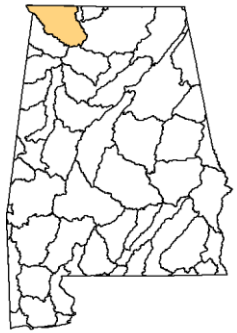
2010 FINAL DATA





06030005-Pickwick Lake





Area in AL (Square Miles) 1,411.0

Estimated Population (2010)* 157,223

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-Elk

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	2.46	2.38	2.39	3.30	2.51	2.44	2.48	2.45	2.51	2.45	2.40	2.42	2.52
Public Supply	SW	21.03	19.96	19.14	19.78	19.85	22.20	23.99	24.61	24.05	21.47	19.42	20.52	21.34
Industrial/Mining	GW	0.24	0.24	0.24	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.24	0.24	0.25
Industrial/Mining	SW	59.69	58.83	64.53	73.34	75.98	73.77	74.37	61.88	75.28	76.48	74.38	71.59	70.01
Thermoelectric	SW	1331.00	1323.00	1313.00	1306.00	1278.00	1324.00	1326.00	1327.00	1319.00	1309.00	775.00	1212.00	1261.92
Agriculture	GW	0.67	0.76	1.04	1.88	2.44	3.45	3.86	3.05	2.52	1.95	1.04	0.75	1.95
Agriculture	SW	1.03	1.27	2.11	4.28	5.90	8.63	9.97	8.21	6.45	4.44	2.19	1.09	4.63
Total	**SW**	**1412.75**	**1403.06**	**1398.77**	**1403.40**	**1379.74**	**1428.60**	**1434.33**	**1421.69**	**1424.78**	**1411.39**	**870.99**	**1305.20**	**1357.89**
Total	**GW**	**3.37**	**3.39**	**3.68**	**5.44**	**5.21**	**6.15**	**6.60**	**5.77**	**5.29**	**4.64**	**3.69**	**3.41**	**4.72**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		30.24	30.73	15.62	27.66	14.65	13.17	12.22	11.84	11.01	9.85	11.17	11.93	16.67
Industrial/Mining		55.97	51.63	55.86	64.31	69.49	61.12	59.53	45.82	60.75	62.95	61.08	57.31	58.82
Thermoelectric		1346.49	1336.88	1325.21	1314.55	1287.13	1338.55	1340.33	1345.01	1329.12	1317.29	785.43	1225.41	1274.29
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1432.70**	**1419.24**	**1396.69**	**1406.53**	**1371.27**	**1412.85**	**1412.08**	**1402.67**	**1400.89**	**1390.09**	**857.68**	**1294.65**	**1349.78**

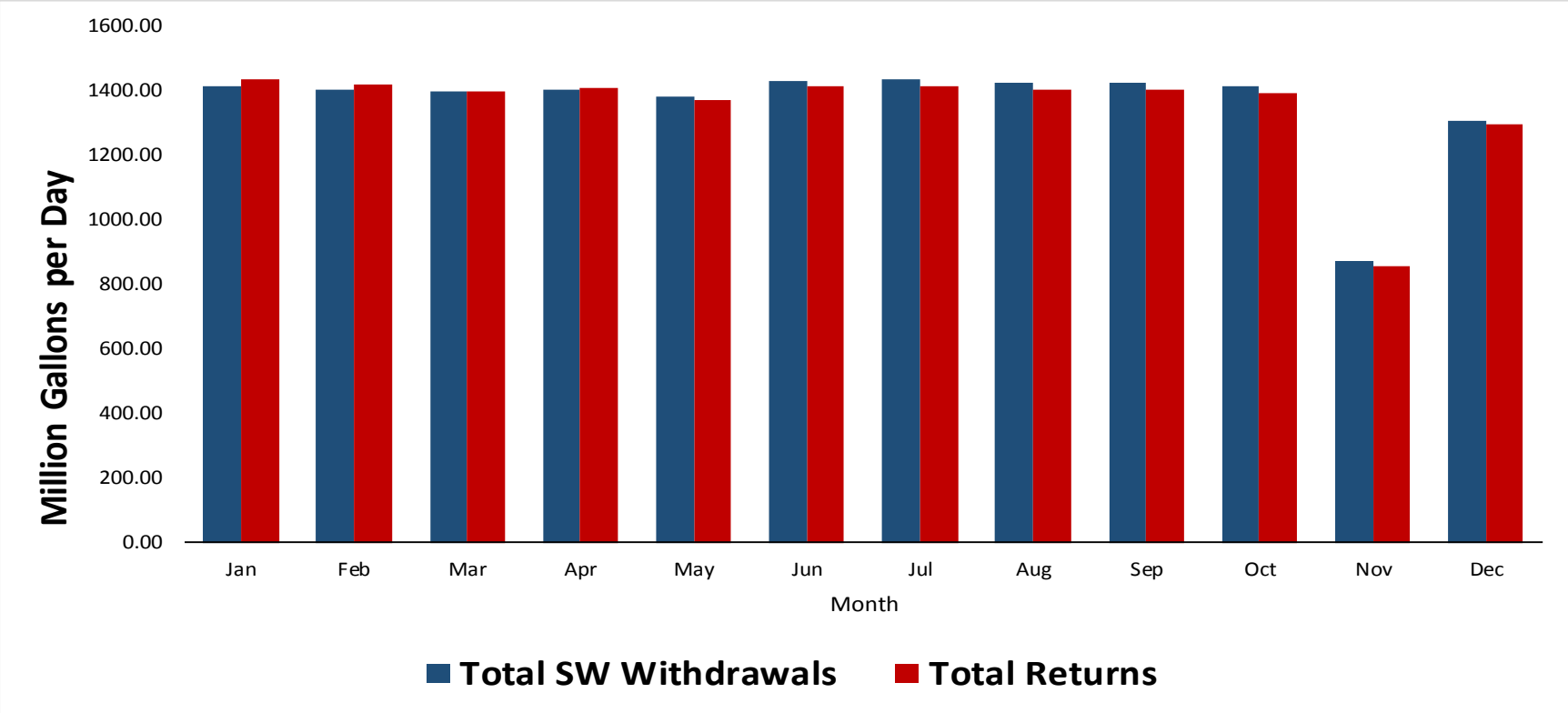
06030005-Pickwick Lake

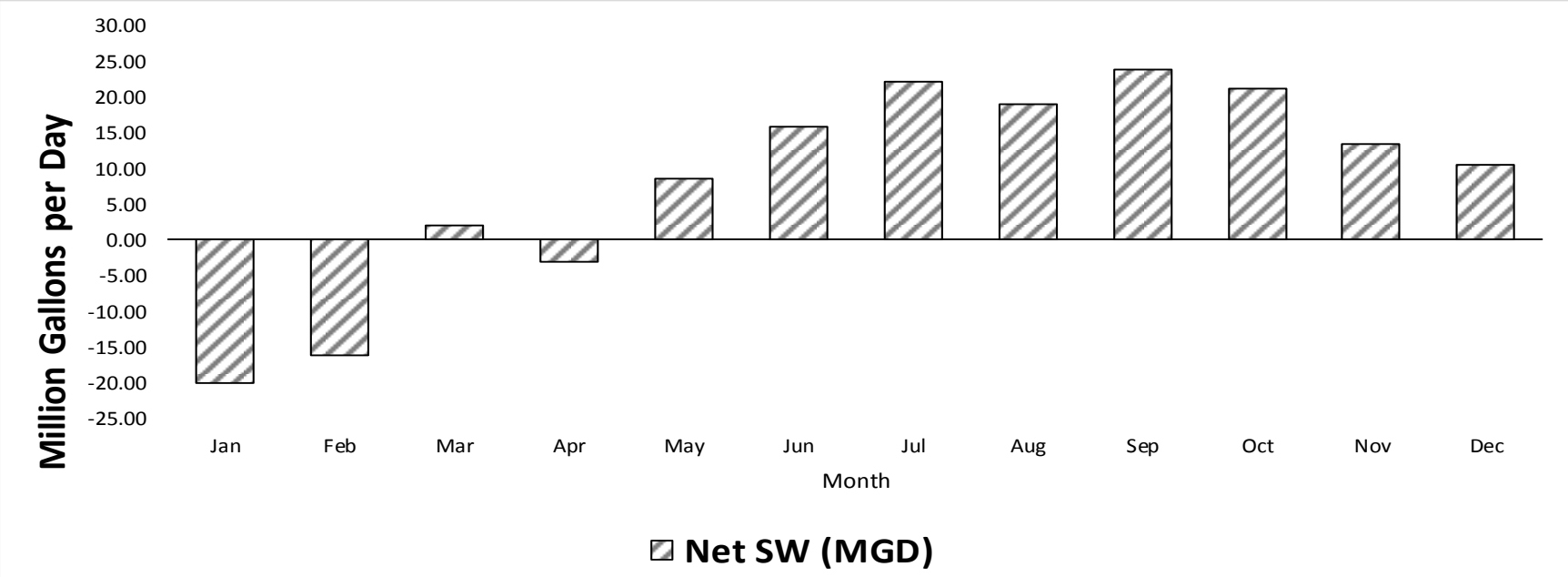
2010 FINAL DATA

Total SW Withdrawals	SW	1412.75	1403.06	1398.77	1403.40	1379.74	1428.60	1434.33	1421.69	1424.78	1411.39	870.99	1305.20	1357.89
Total GW Withdrawals	GW	3.37	3.39	3.68	5.44	5.21	6.15	6.60	5.77	5.29	4.64	3.69	3.41	4.72
Withdrawal Total		1416.12	1406.45	1402.45	1408.84	1384.94	1434.75	1440.94	1427.45	1430.07	1416.03	874.68	1308.61	1362.61
Total Returns		**1432.70**	**1419.24**	**1396.69**	**1406.53**	**1371.27**	**1412.85**	**1412.08**	**1402.67**	**1400.89**	**1390.09**	**857.68**	**1294.65**	**1349.78**
Net SW (MGD)	SW	**-19.95**	**-16.18**	**2.08**	**-3.12**	**8.47**	**15.75**	**22.25**	**19.01**	**23.89**	**21.30**	**13.32**	**10.55**	**8.11**

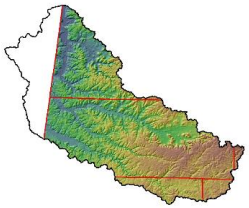
06030005-Pickwick Lake

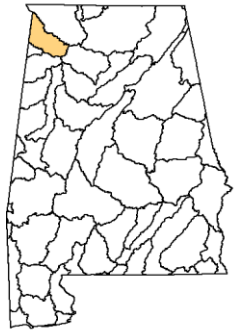
2010 FINAL DATA





06030006-Bear





Area in AL (Square Miles) 794.7

Estimated Population (2010)* 31,649

2010 population data differs from" Water Use in Alabama in 2010"

Subregion: Middle-Tennessee-Elk

2010 Demands

2010 FINAL DATA

Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	1.68	1.59	1.57	1.57	1.62	1.71	1.73	2.08	1.63	1.58	1.54	1.59	1.66
Public Supply	SW	8.06	7.24	6.71	6.89	7.14	7.57	7.85	8.25	8.21	7.37	7.48	7.65	7.54
Industrial/Mining	GW	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Industrial/Mining	SW	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.34	0.36	0.37	0.45	0.62	0.89	0.96	0.76	0.53	0.43	0.35	0.34	0.53
Agriculture	SW	0.50	0.54	0.64	0.98	1.27	1.74	1.92	1.58	1.34	1.05	0.64	0.52	1.06
Total	**SW**	**8.92**	**8.13**	**7.70**	**8.22**	**8.77**	**9.66**	**10.11**	**10.18**	**9.89**	**8.77**	**8.47**	**8.52**	**8.94**
Total	**GW**	**2.27**	**2.19**	**2.20**	**2.28**	**2.49**	**2.84**	**2.93**	**3.09**	**2.41**	**2.26**	**2.14**	**2.17**	**2.44**

Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		5.11	5.67	4.56	3.81	4.59	4.01	2.81	2.46	1.69	1.97	2.73	3.46	3.57
Industrial/Mining		3.89	3.06	3.05	3.55	3.48	3.19	4.13	3.65	2.58	2.93	4.52	3.53	3.46
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**8.99**	**8.72**	**7.61**	**7.36**	**8.07**	**7.19**	**6.94**	**6.11**	**4.27**	**4.89**	**7.25**	**6.99**	**7.03**

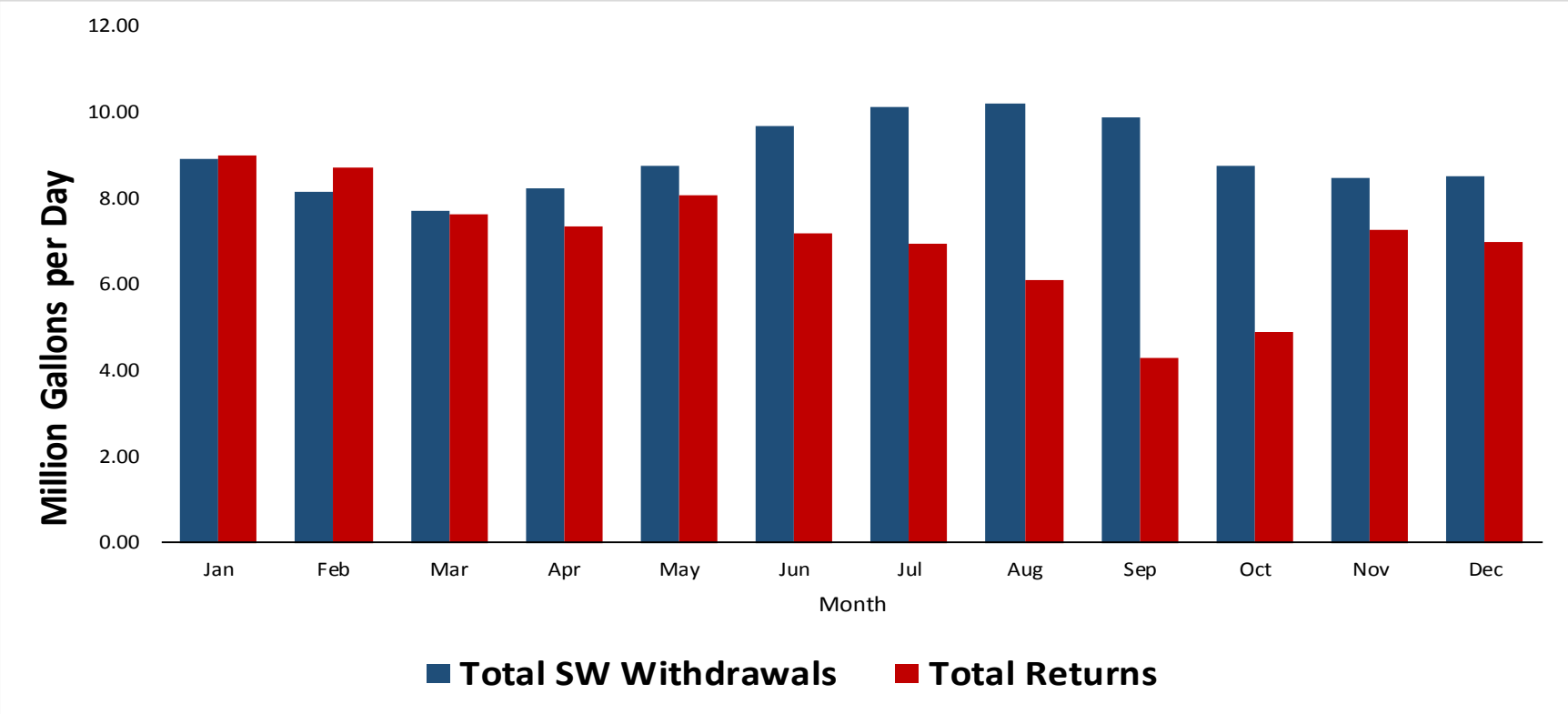
06030006-Bear

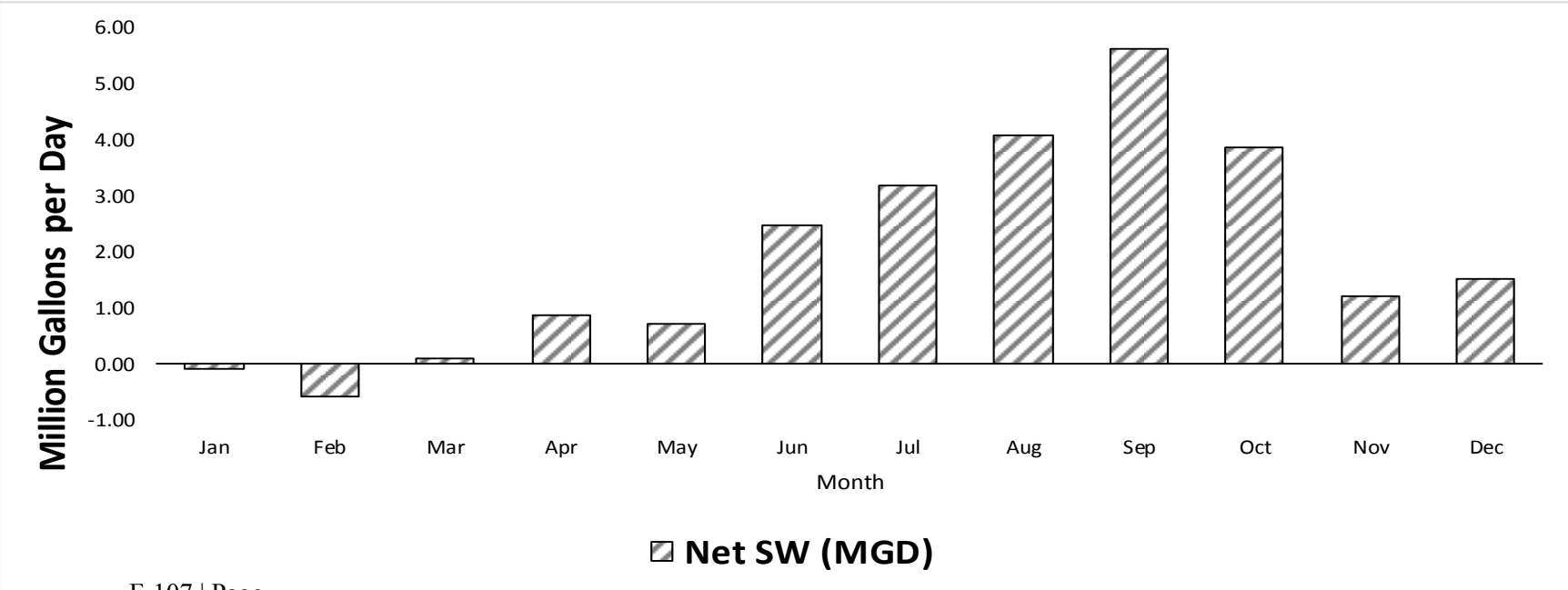
2010 FINAL DATA

Total SW Withdrawals	SW	8.92	8.13	7.70	8.22	8.77	9.66	10.11	10.18	9.89	8.77	8.47	8.52	8.94
Total GW Withdrawals	GW	2.27	2.19	2.20	2.28	2.49	2.84	2.93	3.09	2.41	2.26	2.14	2.17	2.44
Withdrawal Total		11.18	10.33	9.90	10.49	11.25	12.50	13.05	13.27	12.30	11.02	10.62	10.69	11.38
Total Returns		**8.99**	**8.72**	**7.61**	**7.36**	**8.07**	**7.19**	**6.94**	**6.11**	**4.27**	**4.89**	**7.25**	**6.99**	**7.03**
Net SW (MGD)	SW	**-0.08**	**-0.59**	**0.09**	**0.86**	**0.70**	**2.46**	**3.17**	**4.07**	**5.62**	**3.88**	**1.22**	**1.53**	**1.91**

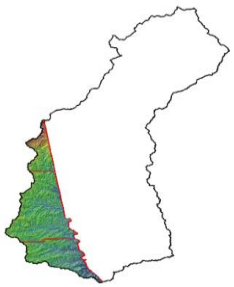
06030006-Bear

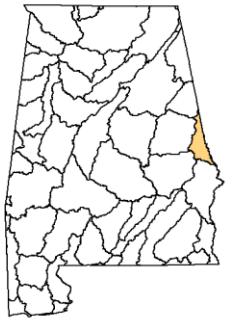
2010 FINAL DATA





03130002-Middle Chattahoochee-Lake Harding





Area in AL (Square Miles)	559.1
Estimated Population (2040)	66,447
Subregion:	Apalachicola

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	14.36	12.46	12.18	14.06	14.72	15.10	16.30	17.21	18.34	13.87	12.97	13.07	14.55
Industrial/Mining/ Thermoelectric	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Industrial/Mining/ Thermoelectric	SW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Agriculture	GW	0.06	0.07	0.08	0.12	0.16	0.22	0.24	0.19	0.15	0.12	0.08	0.07	0.13
Agriculture	SW	0.11	0.12	0.17	0.31	0.40	0.54	0.62	0.53	0.46	0.34	0.18	0.12	0.32
Total	**SW**	**14.49**	**12.60**	**12.37**	**14.40**	**15.14**	**15.65**	**16.94**	**17.76**	**18.83**	**14.23**	**13.18**	**13.21**	**14.90**
Total	**GW**	**0.12**	**0.12**	**0.13**	**0.17**	**0.21**	**0.27**	**0.30**	**0.25**	**0.20**	**0.17**	**0.13**	**0.12**	**0.18**

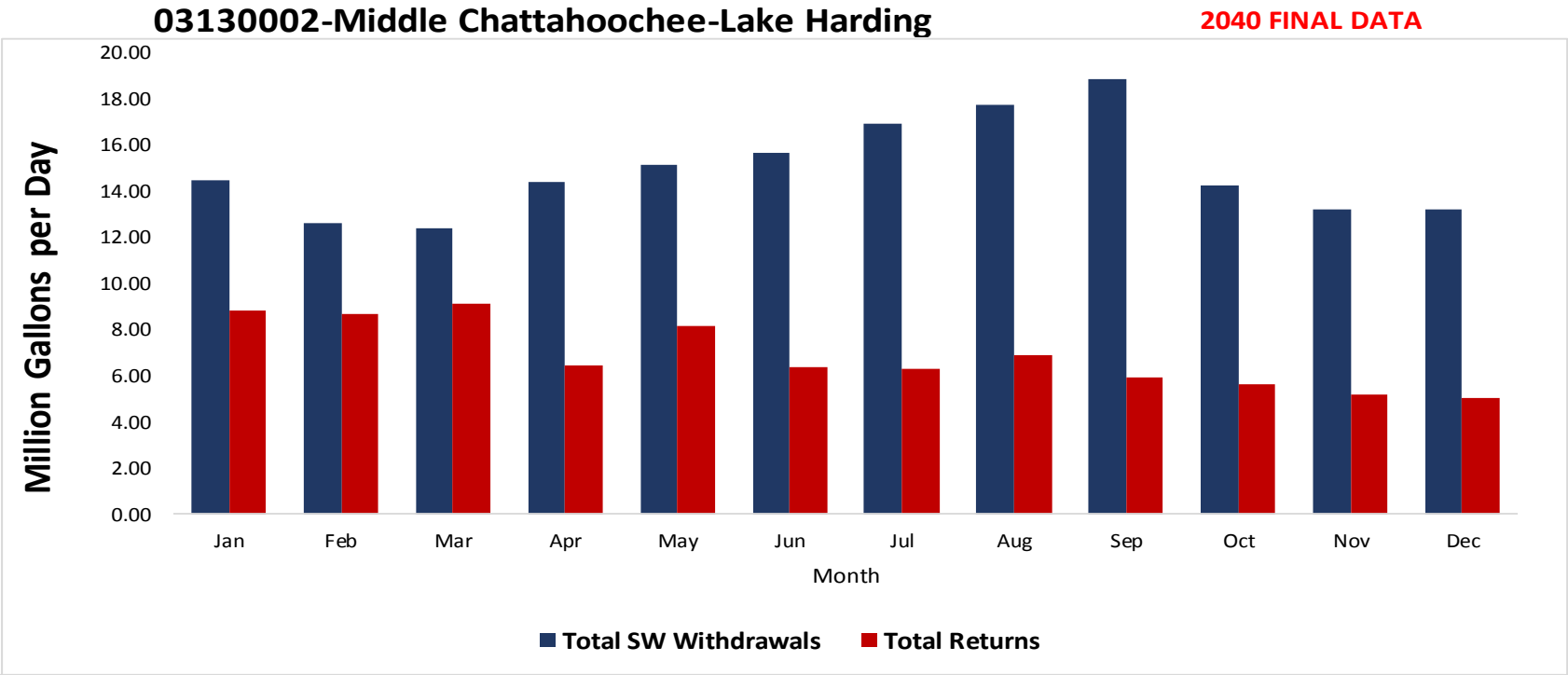
Returns (MGD)

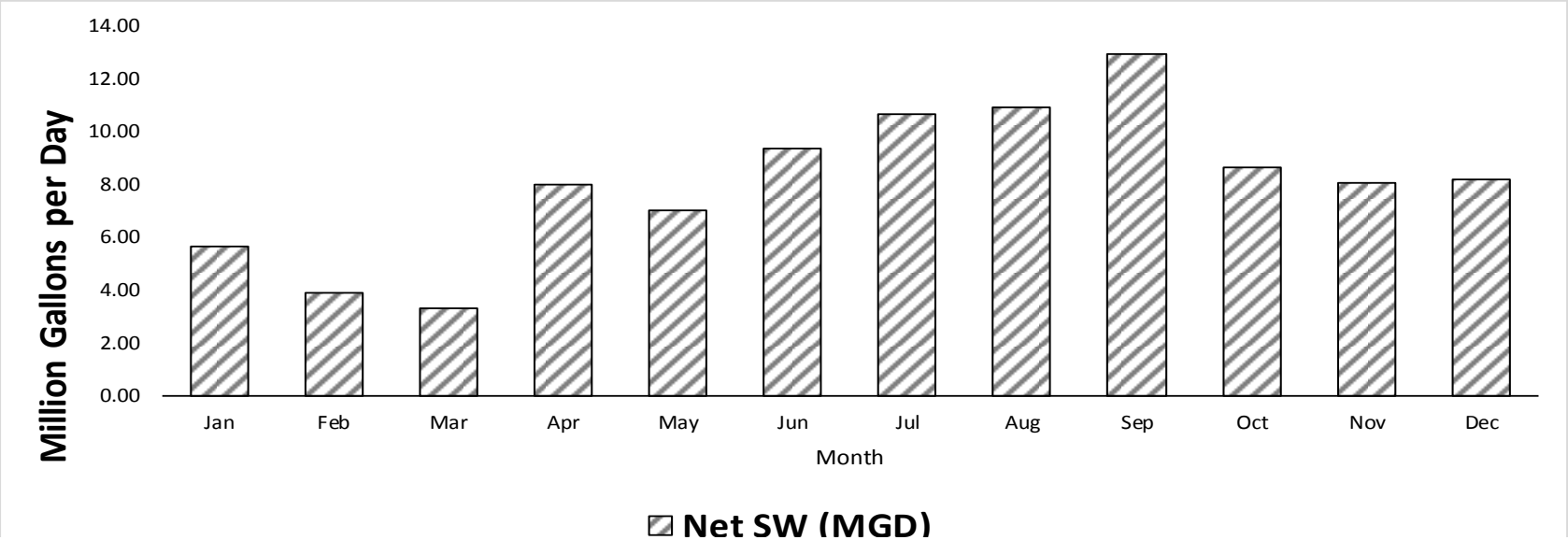
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		6.94	6.74	6.97	4.66	5.55	4.45	3.86	4.14	3.64	3.31	3.05	3.36	4.72
Industrial/Mining/ Thermoelectric		1.91	1.97	2.14	1.77	2.59	1.90	2.43	2.76	2.26	2.31	2.12	1.68	2.15
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**8.86**	**8.71**	**9.10**	**6.44**	**8.14**	**6.35**	**6.29**	**6.90**	**5.90**	**5.62**	**5.17**	**5.04**	**6.88**

03130002-Middle Chattahoochee-Lake Harding

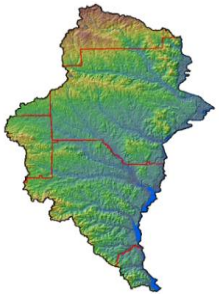
2040 FINAL DATA

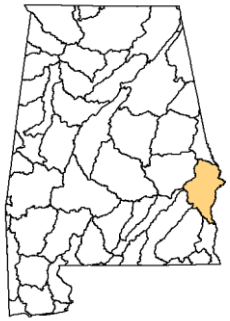
Total SW Withdrawals	SW	14.49	12.60	12.37	14.40	15.14	15.65	16.94	17.76	18.83	14.23	13.18	13.21	14.90
Total GW Withdrawals	SW	0.12	0.12	0.13	0.17	0.21	0.27	0.30	0.25	0.20	0.17	0.13	0.12	0.18
Withdrawal Total		14.61	12.72	12.51	14.57	15.34	15.93	17.24	18.01	19.03	14.40	13.31	13.33	15.08
Total Returns		**8.86**	**8.71**	**9.10**	**6.44**	**8.14**	**6.35**	**6.29**	**6.90**	**5.90**	**5.62**	**5.17**	**5.04**	6.88
Net SW (MGD)	SW	**5.63**	**3.89**	**3.27**	**7.96**	**6.99**	**9.30**	**10.66**	**10.86**	**12.92**	**8.61**	**8.01**	**8.16**	**8.02**


03130002-Middle Chattahoochee-Lake Harding
2040 FINAL DATA
Million Gallons per Day
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03130003-Middle Chattahoochee-W.F. George Res.





Area in AL (Square Miles)	1,426.7
Estimated Population (2040)	146,420
Subregion:	Apalachicola

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.28	4.41	4.33	5.30	5.60	5.53	5.61	5.39	5.81	5.12	4.30	4.25	5.08
Public Supply	SW	8.99	8.29	8.33	9.42	8.33	11.03	12.69	11.86	11.72	10.15	9.16	8.68	9.89
Industrial/Mining/ Thermoelectric	GW	3.08	3.19	3.22	3.21	3.13	3.21	3.17	3.20	3.41	3.30	3.01	3.06	3.18
Industrial/Mining/ Thermoelectric	SW	30.28	31.29	31.05	29.40	28.84	30.29	29.11	28.15	28.68	30.28	30.29	29.54	29.77
Agriculture	GW	0.42	0.56	0.84	1.76	2.74	4.39	4.94	3.68	2.53	1.76	0.77	0.48	2.07
Agriculture	SW	2.83	4.27	7.34	17.33	27.46	44.40	50.39	37.59	25.93	17.52	6.79	3.53	20.45
Total	**SW**	**42.10**	**43.84**	**46.72**	**56.15**	**64.63**	**85.73**	**92.18**	**77.60**	**66.33**	**57.95**	**46.24**	**41.75**	**60.10**
Total	**GW**	**8.77**	**8.16**	**8.38**	**10.27**	**11.47**	**13.12**	**13.72**	**12.27**	**11.75**	**10.18**	**8.07**	**7.79**	**10.33**

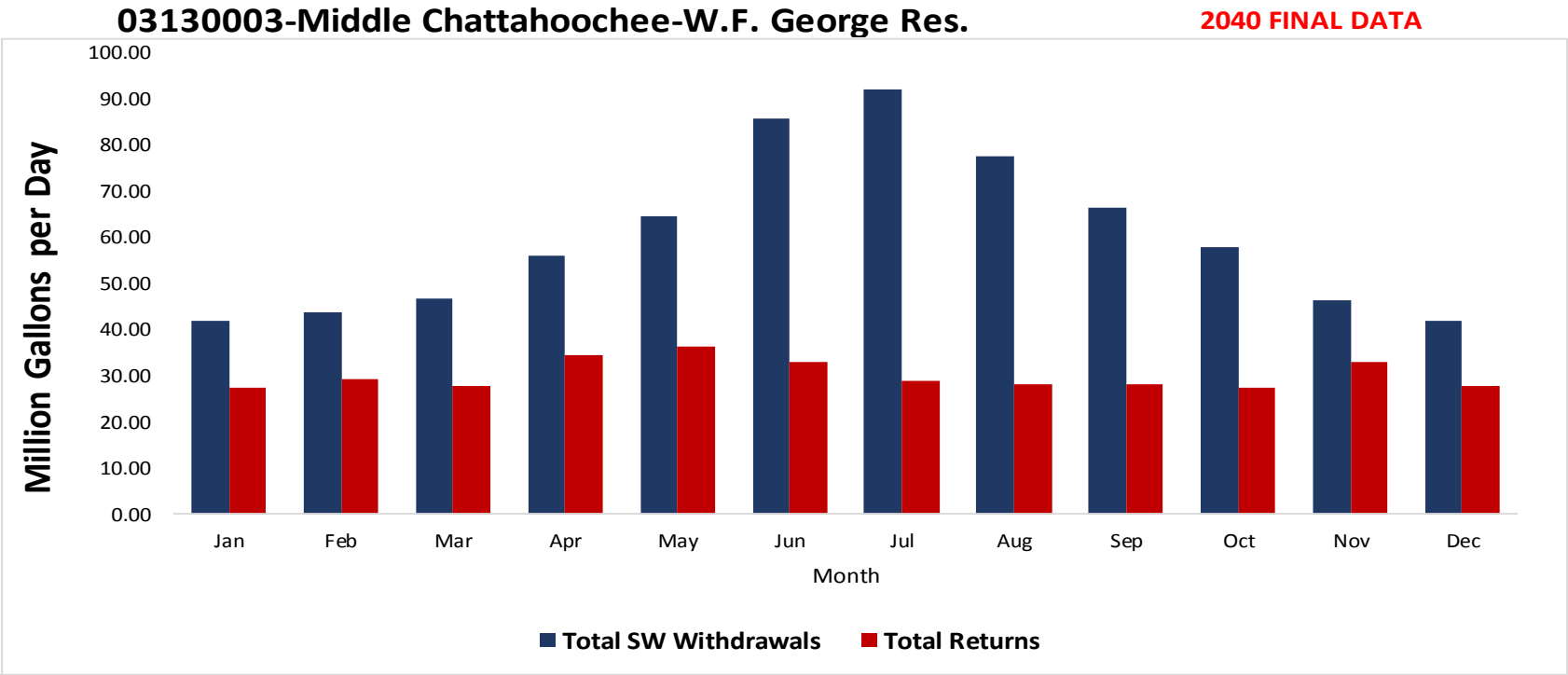
Returns (MGD)

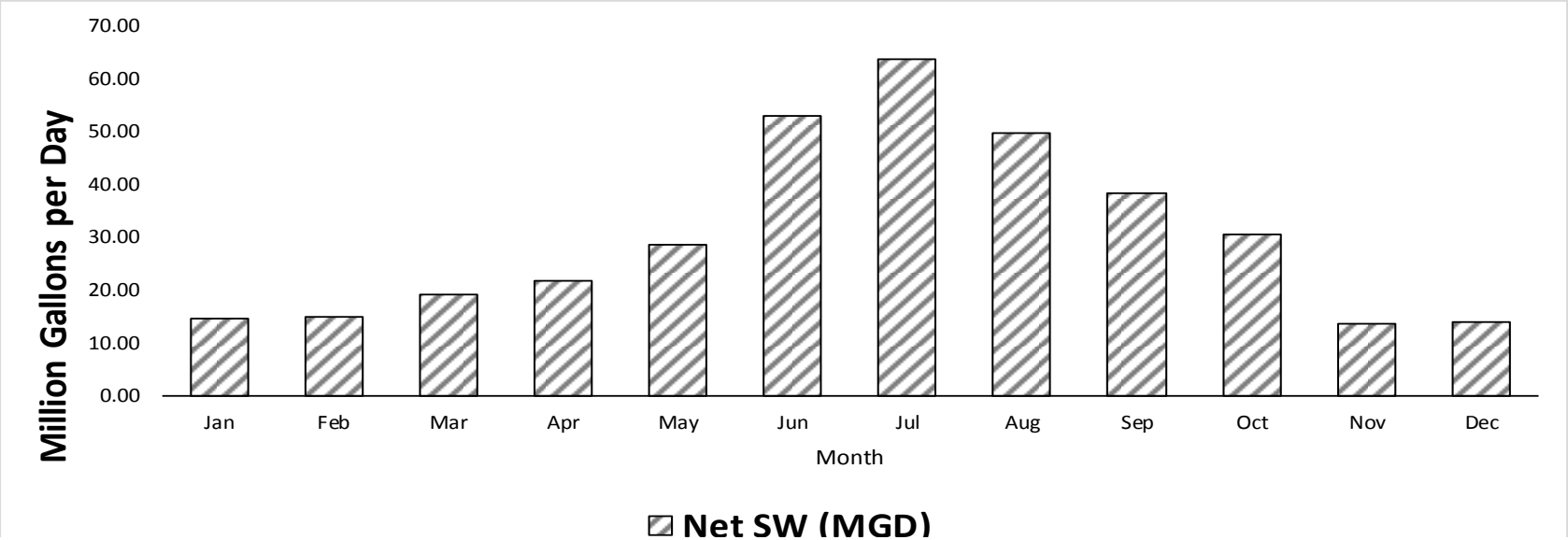
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		11.42	11.72	10.76	8.57	9.78	7.17	5.96	5.69	5.34	4.71	4.40	4.08	7.47
Industrial/Mining/ Thermoelectric		16.06	17.46	16.98	25.86	26.44	25.78	22.80	22.40	22.82	22.74	28.46	23.88	22.64
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**27.48**	**29.17**	**27.74**	**34.43**	**36.22**	**32.95**	**28.77**	**28.09**	**28.16**	**27.45**	**32.87**	**27.96**	**30.11**

03130003-Middle Chattahoochee-W.F. George Res.

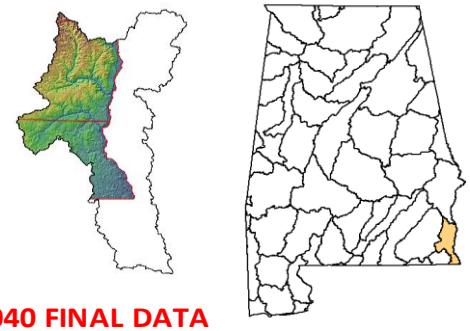
2040 FINAL DATA

Total SW Withdrawals	SW	42.10	43.84	46.72	56.15	64.63	85.73	92.18	77.60	66.33	57.95	46.24	41.75	60.10
Total GW Withdrawals	SW	8.77	8.16	8.38	10.27	11.47	13.12	13.72	12.27	11.75	10.18	8.07	7.79	10.33
Withdrawal Total		50.87	52.00	55.09	66.42	76.10	98.85	105.90	89.87	78.07	68.13	54.31	49.55	70.43
Total Returns		**27.48**	**29.17**	**27.74**	**34.43**	**36.22**	**32.95**	**28.77**	**28.09**	**28.16**	**27.45**	**32.87**	**27.96**	30.11
Net SW (MGD)	SW	**14.62**	**14.67**	**18.98**	**21.73**	**28.41**	**52.78**	**63.42**	**49.51**	**38.17**	**30.49**	**13.37**	**13.79**	**29.99**


03130003-Middle Chattahoochee-W.F. George Res.
2040 FINAL DATA
Million Gallons per Day
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03130004-Lower Chattahoochee



Area in AL (Square Miles)	578.3
Estimated Population (2040)	41,517
Subregion:	Apalachicola

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	10.29	10.70	10.13	12.09	12.79	12.45	11.76	12.71	13.16	12.11	12.75	11.97	11.91
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.46	0.42	0.47	0.41	0.42	0.44	0.45	0.44	0.40	0.40	0.41	0.41	0.43
Industrial/Mining/ Thermoelectric	SW	67.63	69.73	61.90	60.27	74.11	104.82	114.98	122.09	116.01	90.09	78.71	79.34	86.64
Agriculture	GW	1.07	1.58	2.61	6.06	9.71	15.84	17.91	13.23	8.91	6.05	2.37	1.31	7.22
Agriculture	SW	0.88	1.24	1.99	4.47	7.04	11.34	12.83	9.56	6.56	4.49	1.84	1.05	5.28
Total	**SW**	**68.51**	**70.97**	**63.90**	**64.74**	**81.15**	**116.16**	**127.81**	**131.65**	**122.57**	**94.58**	**80.54**	**80.39**	**91.91**
Total	**GW**	**11.81**	**12.70**	**13.21**	**18.56**	**22.92**	**28.73**	**30.12**	**26.39**	**22.47**	**18.55**	**15.52**	**13.69**	**19.56**

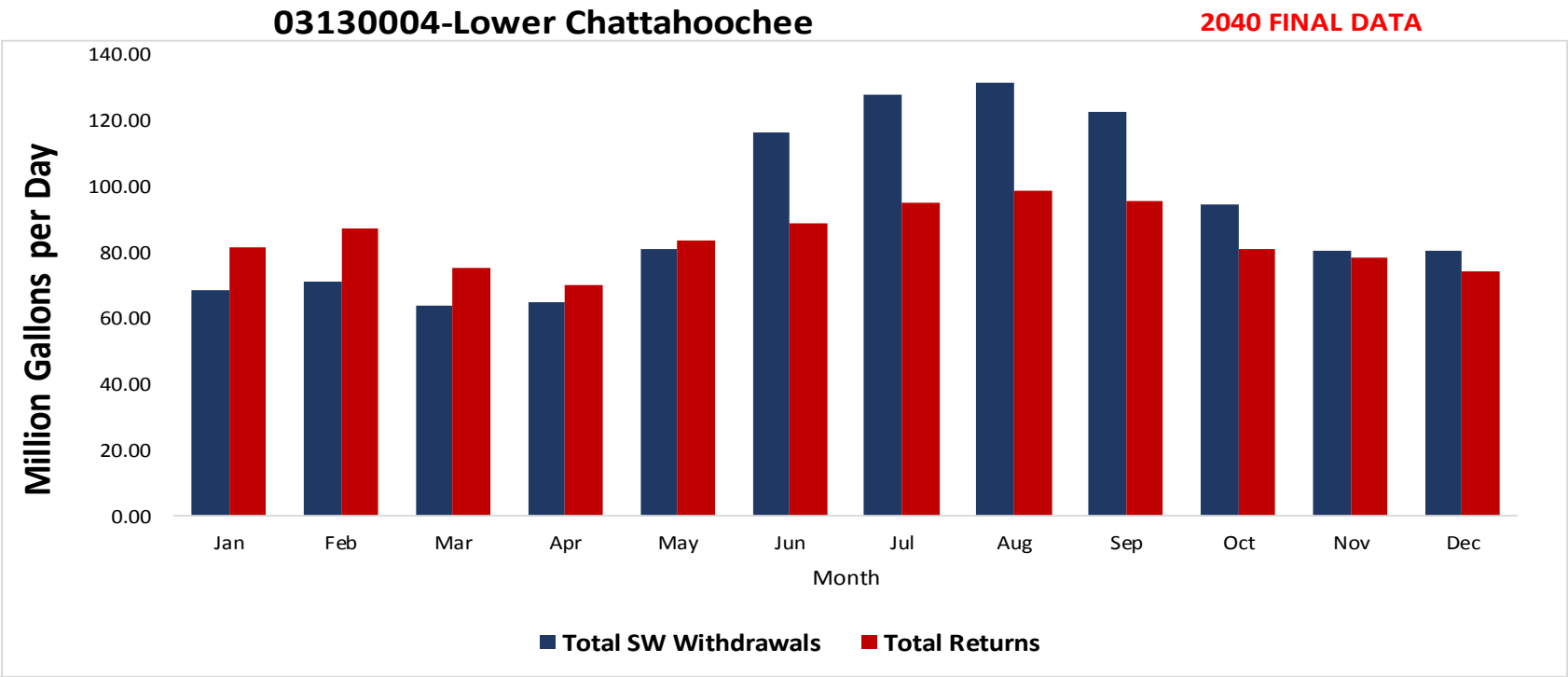
Returns (MGD)

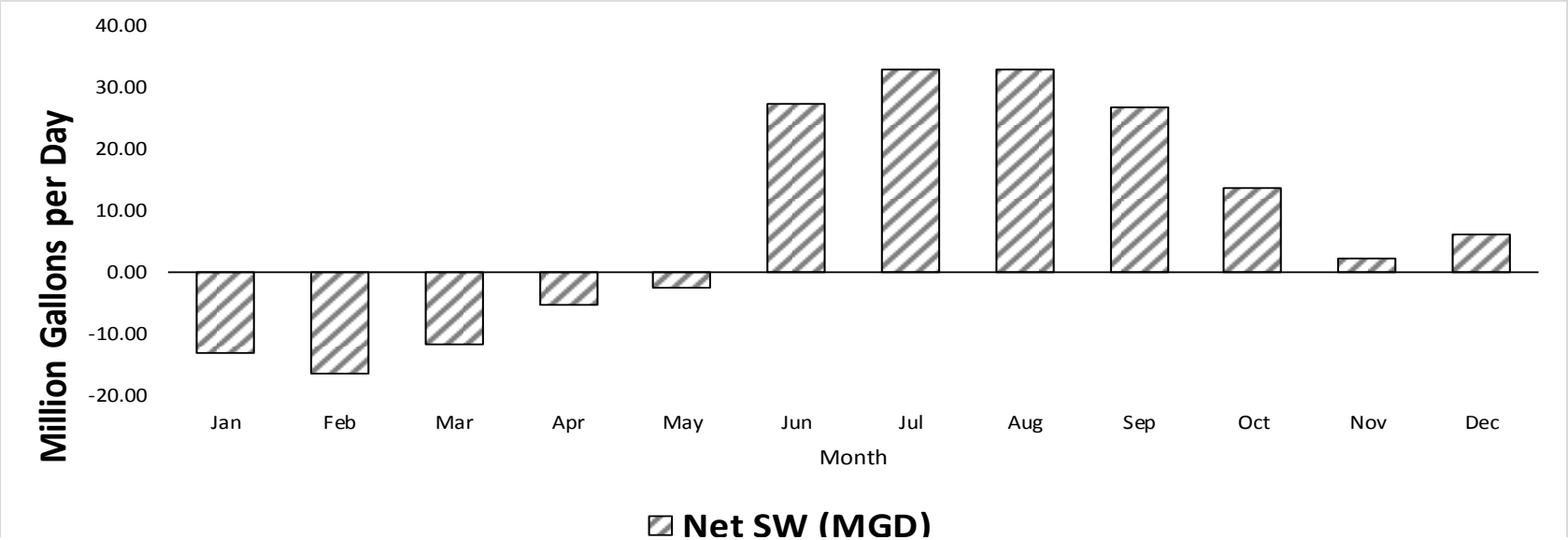
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		8.17	8.93	6.41	5.27	4.63	4.11	4.03	4.00	3.89	3.69	3.66	3.51	5.02
Industrial/Mining/ Thermoelectric		73.39	78.46	69.20	64.75	78.98	84.95	90.94	94.96	91.88	77.35	74.68	70.88	79.20
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**81.56**	**87.39**	**75.60**	**70.02**	**83.61**	**89.06**	**94.97**	**98.96**	**95.77**	**81.03**	**78.34**	**74.38**	**84.22**

03130004-Lower Chattahoochee

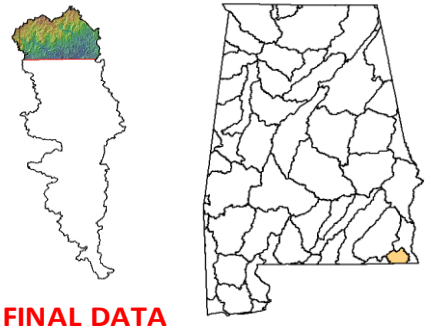
2040 FINAL DATA

Total SW Withdrawals	SW	68.51	70.97	63.90	64.74	81.15	116.16	127.81	131.65	122.57	94.58	80.54	80.39	91.91
Total GW Withdrawals	SW	11.81	12.70	13.21	18.56	22.92	28.73	30.12	26.39	22.47	18.55	15.52	13.69	19.56
Withdrawal Total		80.32	83.67	77.11	83.30	104.07	144.89	157.92	158.03	145.04	113.13	96.07	94.08	111.47
Total Returns		**81.56**	**87.39**	**75.60**	**70.02**	**83.61**	**89.06**	**94.97**	**98.96**	**95.77**	**81.03**	**78.34**	**74.38**	84.22
Net SW (MGD)	SW	**-13.05**	**-16.42**	**-11.70**	**-5.28**	**-2.46**	**27.10**	**32.84**	**32.69**	**26.80**	**13.55**	**2.20**	**6.01**	**7.69**


03130004-Lower Chattahoochee
2040 FINAL DATA
Million Gallons per Day
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03130012-Chipola



Area in AL (Square Miles)	265.1
Estimated Population (2040)	43,138
Subregion:	Apalachicola

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	4.21	2.87	2.80	3.42	3.37	3.74	3.95	3.57	3.90	3.79	2.79	2.83	3.44
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.85	1.29	2.18	5.12	8.25	13.49	15.26	11.25	7.56	5.11	1.96	1.06	6.11
Agriculture	SW	0.34	0.48	0.87	2.05	3.01	4.58	5.27	4.16	3.22	2.18	0.89	0.42	2.29
Total	**SW**	**0.34**	**0.48**	**0.87**	**2.05**	**3.01**	**4.58**	**5.27**	**4.16**	**3.22**	**2.18**	**0.89**	**0.42**	**2.29**
Total	**GW**	**5.06**	**4.16**	**4.98**	**8.55**	**11.62**	**17.22**	**19.21**	**14.82**	**11.46**	**8.90**	**4.76**	**3.88**	**9.55**

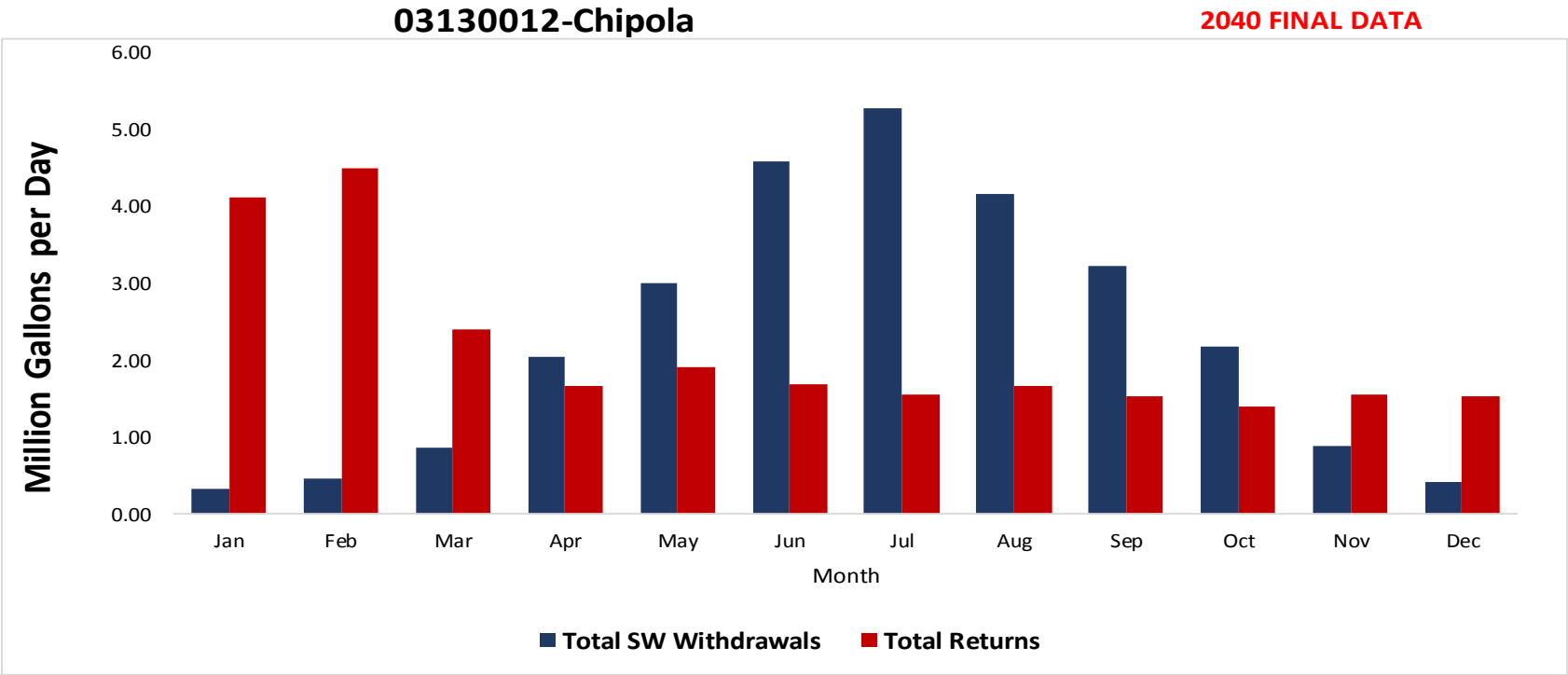
Returns (MGD)

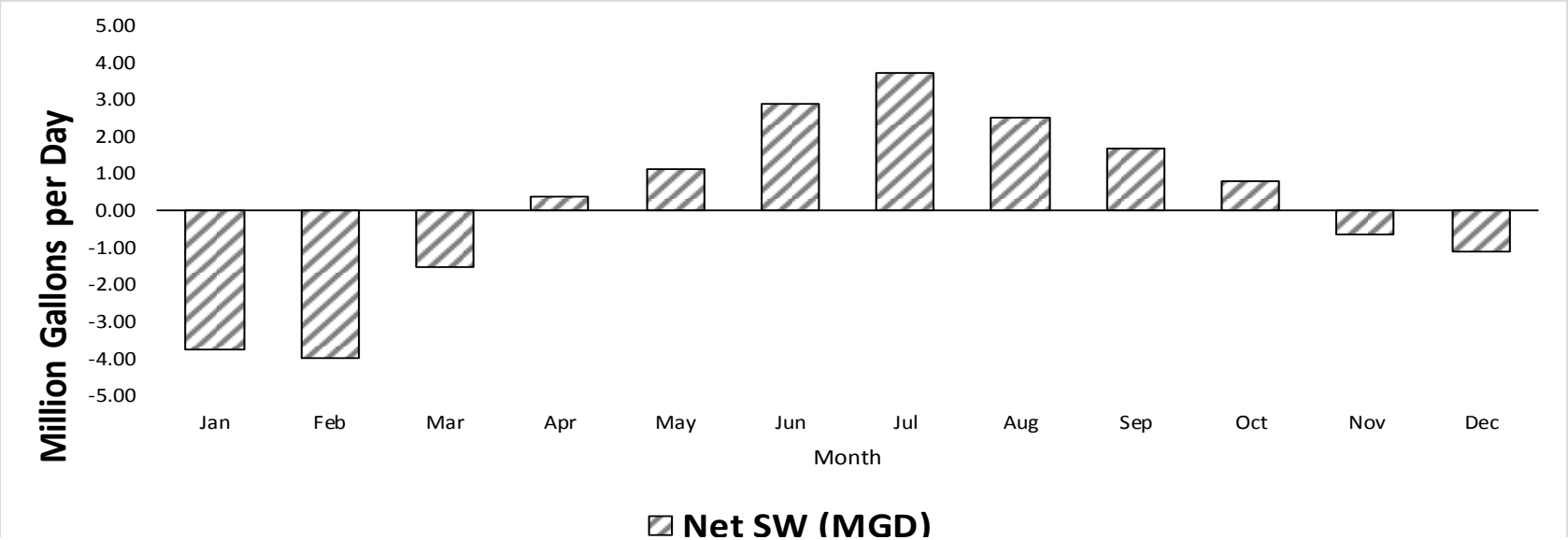
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.11	4.49	2.42	1.67	1.91	1.70	1.56	1.68	1.55	1.41	1.57	1.54	2.13
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.11**	**4.49**	**2.42**	**1.67**	**1.91**	**1.70**	**1.56**	**1.68**	**1.55**	**1.41**	**1.57**	**1.54**	**2.13**

03130012-Chipola

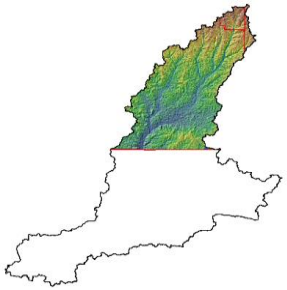
2040 FINAL DATA

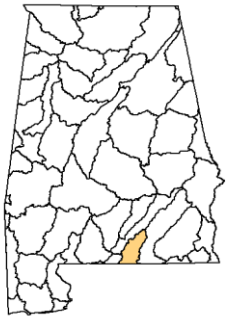
Total SW Withdrawals	SW	0.34	0.48	0.87	2.05	3.01	4.58	5.27	4.16	3.22	2.18	0.89	0.42	2.29
Total GW Withdrawals	SW	5.06	4.16	4.98	8.55	11.62	17.22	19.21	14.82	11.46	8.90	4.76	3.88	9.55
Withdrawal Total		5.40	4.64	5.85	10.59	14.63	21.80	24.48	18.99	14.68	11.09	5.65	4.31	11.84
Total Returns		**4.11**	**4.49**	**2.42**	**1.67**	**1.91**	**1.70**	**1.56**	**1.68**	**1.55**	**1.41**	**1.57**	**1.54**	2.13
Net SW (MGD)	SW	**-3.77**	**-4.01**	**-1.54**	**0.38**	**1.10**	**2.88**	**3.71**	**2.48**	**1.67**	**0.78**	**-0.67**	**-1.11**	**0.16**


03130012-Chipola
2040 FINAL DATA
Million Gallons per Day
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140103-Yellow





Area in AL (Square Miles)	514.7
Estimated Population (2040)	21,588
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.63	1.21	1.15	1.41	1.63	1.75	1.86	1.58	1.47	1.51	1.12	1.31	1.47
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.25	0.34	0.50	1.05	1.63	2.60	2.93	2.19	1.50	1.05	0.46	0.29	1.23
Agriculture	SW	0.46	0.58	0.84	1.69	2.53	3.94	4.44	3.39	2.43	1.72	0.80	0.52	1.95
Total	**SW**	**0.46**	**0.58**	**0.84**	**1.69**	**2.53**	**3.94**	**4.44**	**3.39**	**2.43**	**1.72**	**0.80**	**0.52**	**1.95**
Total	**GW**	**1.91**	**1.57**	**1.68**	**2.48**	**3.28**	**4.37**	**4.82**	**3.79**	**2.99**	**2.58**	**1.60**	**1.63**	**2.72**

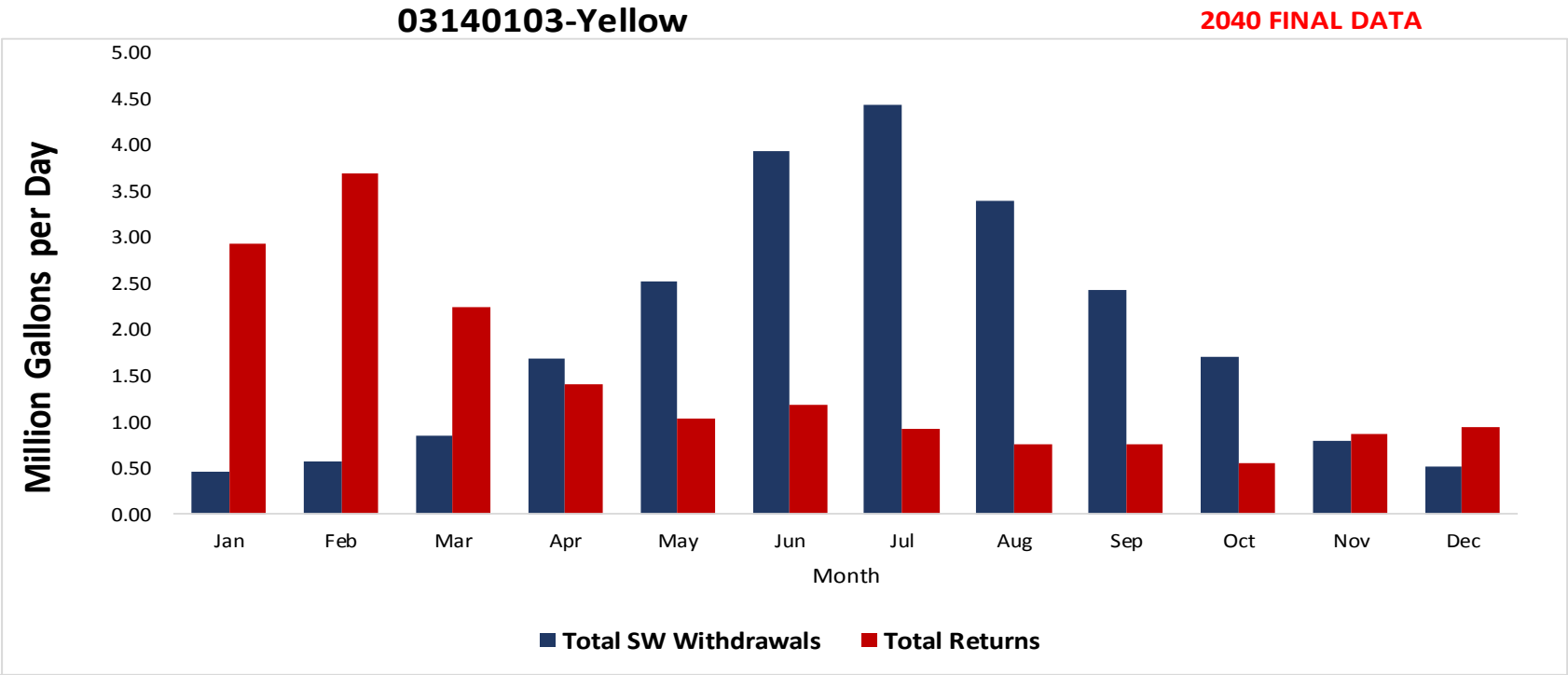
Returns (MGD)

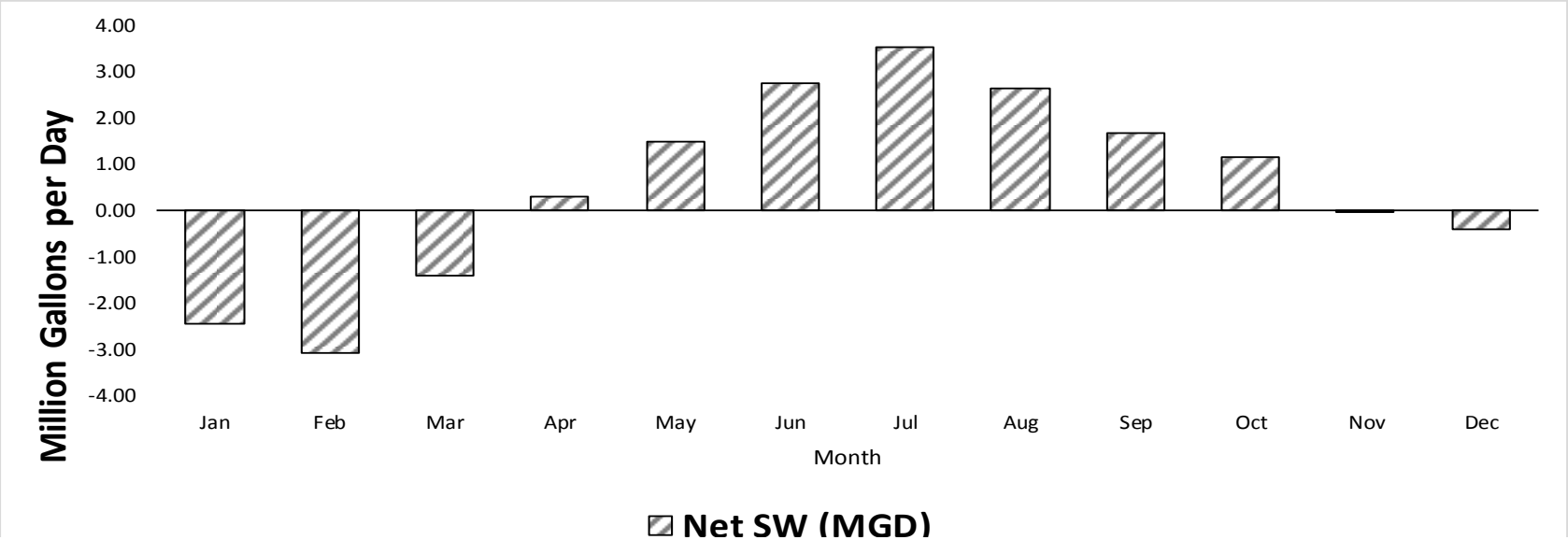
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.89	3.65	2.19	1.36	1.00	1.15	0.87	0.70	0.69	0.49	0.79	0.87	1.39
Industrial/Mining/ Thermoelectric		0.05	0.04	0.05	0.05	0.05	0.04	0.06	0.06	0.08	0.06	0.08	0.08	0.06
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**2.94**	**3.69**	**2.25**	**1.41**	**1.05**	**1.19**	**0.93**	**0.75**	**0.76**	**0.56**	**0.87**	**0.94**	**1.44**

03140103-Yellow

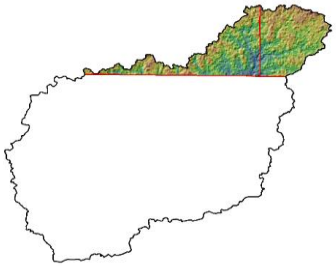
2040 FINAL DATA

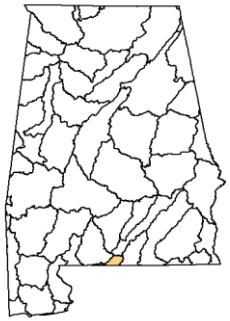
Total SW Withdrawals	SW	0.46	0.58	0.84	1.69	2.53	3.94	4.44	3.39	2.43	1.72	0.80	0.52	1.95
Total GW Withdrawals	SW	1.91	1.57	1.68	2.48	3.28	4.37	4.82	3.79	2.99	2.58	1.60	1.63	2.72
Withdrawal Total		2.37	2.15	2.52	4.17	5.81	8.31	9.26	7.17	5.42	4.29	2.40	2.15	4.67
Total Returns		**2.94**	**3.69**	**2.25**	**1.41**	**1.05**	**1.19**	**0.93**	**0.75**	**0.76**	**0.56**	**0.87**	**0.94**	1.44
Net SW (MGD)	SW	**-2.48**	**-3.10**	**-1.40**	**0.28**	**1.49**	**2.75**	**3.51**	**2.63**	**1.67**	**1.16**	**-0.06**	**-0.42**	**0.50**


03140103-Yellow
2040 FINAL DATA
Million Gallons per Day
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140104-Blackwater





Area in AL (Square Miles)	145.7
Estimated Population (2040)	1,864
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

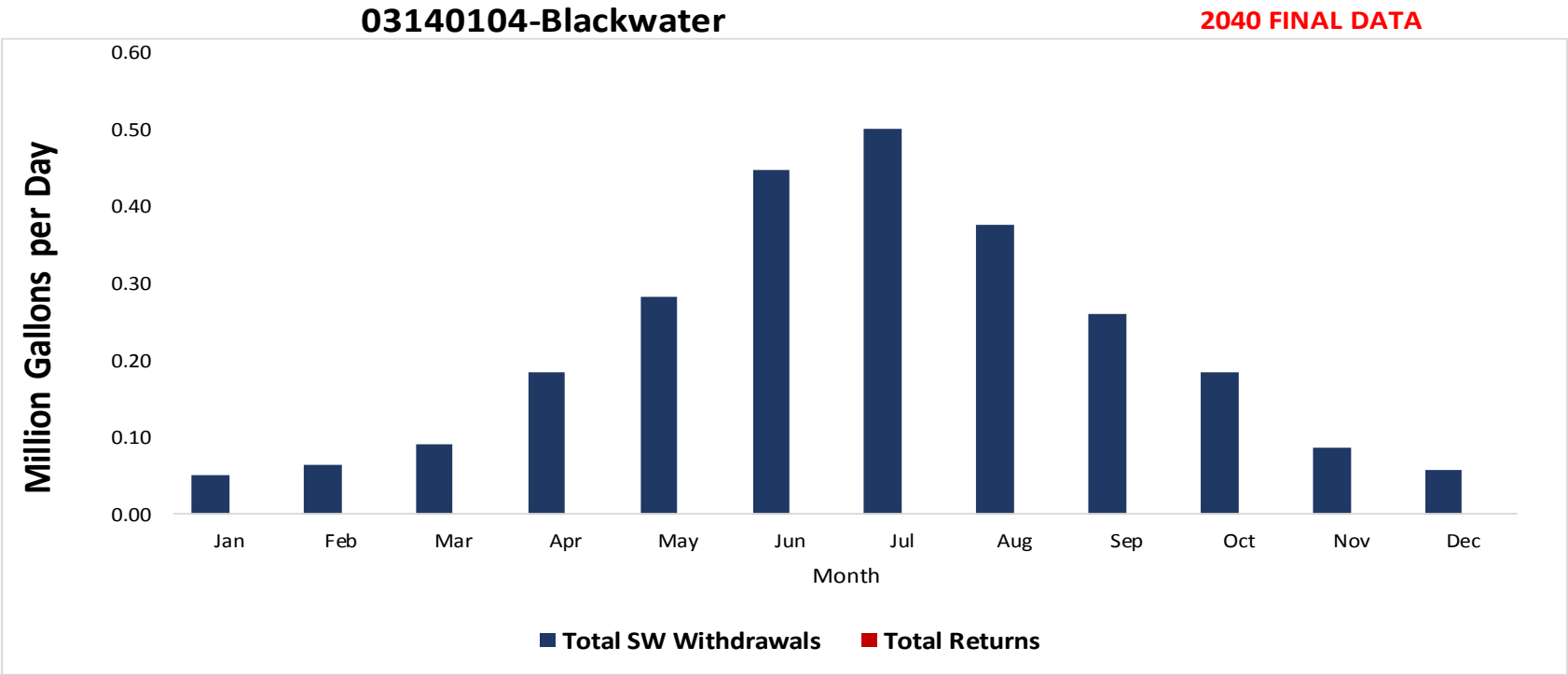
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	0.13	0.06	0.05	0.06	0.07	0.07	0.09	0.08	0.08	0.06	0.06	0.05	0.07
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.05	0.07	0.11	0.23	0.36	0.57	0.65	0.48	0.33	0.23	0.10	0.06	0.27
Agriculture	SW	0.05	0.06	0.09	0.18	0.28	0.45	0.50	0.38	0.26	0.18	0.09	0.06	0.22
Total	**SW**	**0.05**	**0.06**	**0.09**	**0.18**	**0.28**	**0.45**	**0.50**	**0.38**	**0.26**	**0.18**	**0.09**	**0.06**	**0.22**
Total	**GW**	**0.22**	**0.17**	**0.19**	**0.32**	**0.46**	**0.68**	**0.77**	**0.59**	**0.44**	**0.33**	**0.19**	**0.15**	**0.37**

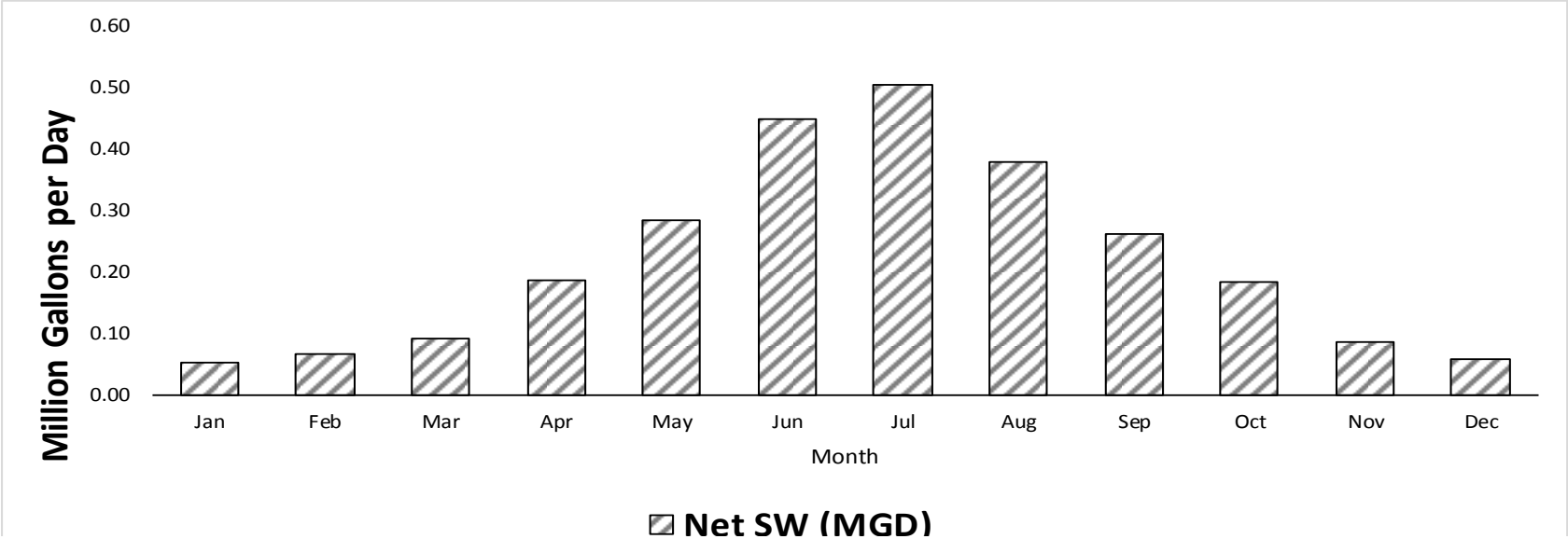
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

03140104-Blackwater

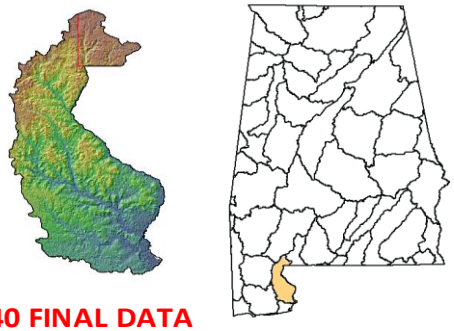
2040 FINAL DATA

Total SW Withdrawals	SW	0.05	0.06	0.09	0.18	0.28	0.45	0.50	0.38	0.26	0.18	0.09	0.06	0.22
Total GW Withdrawals	SW	0.22	0.17	0.19	0.32	0.46	0.68	0.77	0.59	0.44	0.33	0.19	0.15	0.37
Withdrawal Total		0.27	0.23	0.28	0.50	0.74	1.12	1.27	0.97	0.70	0.51	0.27	0.20	0.59
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.05**	**0.06**	**0.09**	**0.18**	**0.28**	**0.45**	**0.50**	**0.38**	**0.26**	**0.18**	**0.09**	**0.06**	**0.22**


03140104-Blackwater
2040 FINAL DATA
Million Gallons per Day
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140106-Perdido



Area in AL (Square Miles)	679.6
Estimated Population (2040)	10,125
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	4.96	4.68	4.92	5.61	5.11	5.06	4.79	5.01	4.62	4.42	3.91	5.03	4.84
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	4.14	6.45	11.06	26.43	42.73	70.07	79.32	58.42	39.16	26.37	9.95	5.22	31.61
Agriculture	SW	0.70	1.07	1.87	4.45	7.06	11.40	12.95	9.67	6.69	4.51	1.73	0.88	5.25
Total	**SW**	**0.70**	**1.07**	**1.87**	**4.45**	**7.06**	**11.40**	**12.95**	**9.67**	**6.69**	**4.51**	**1.73**	**0.88**	**5.25**
Total	**GW**	**9.19**	**11.22**	**16.07**	**32.13**	**47.93**	**75.22**	**84.21**	**63.52**	**43.87**	**30.89**	**13.96**	**10.34**	**36.55**

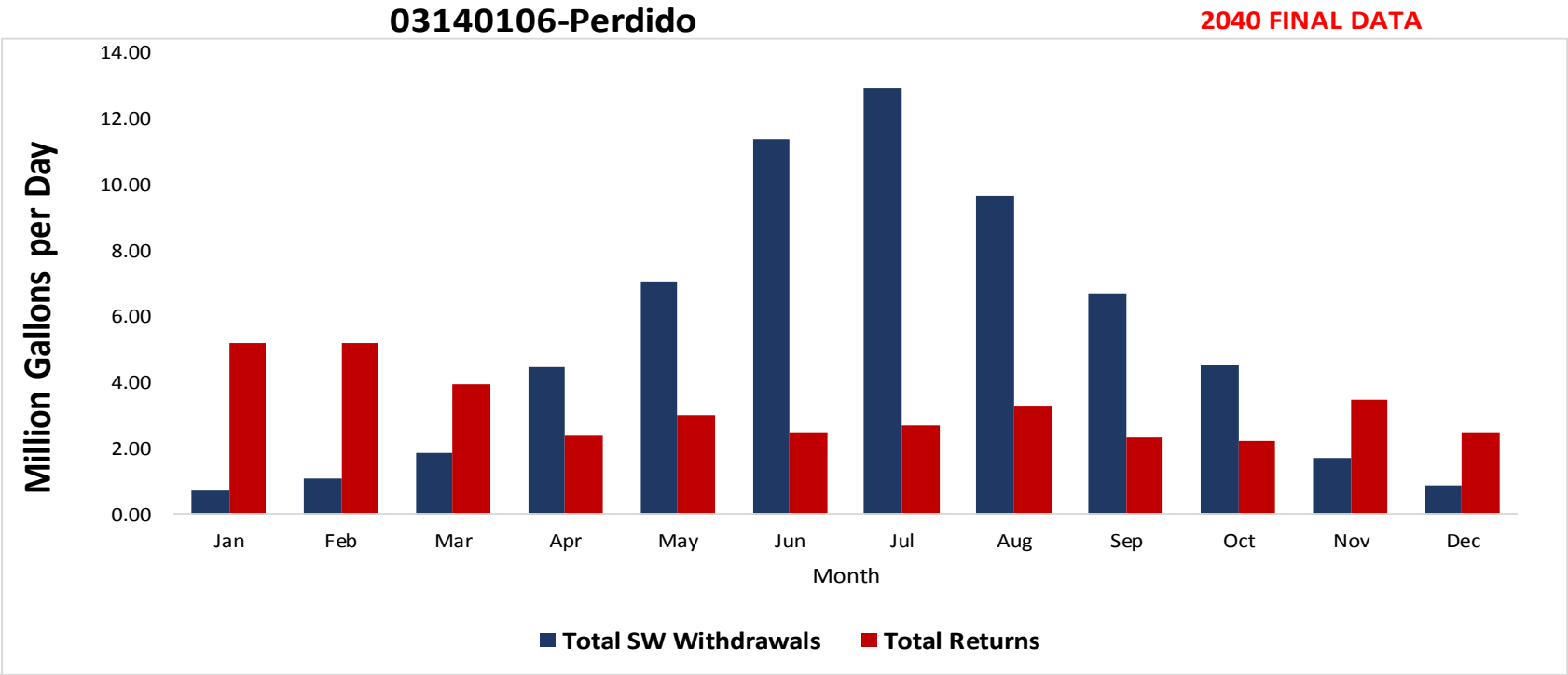
Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.86	4.87	3.61	1.98	2.60	2.04	2.30	2.80	1.95	1.90	3.05	2.21	2.85
Industrial/Mining/ Thermoelectric		0.35	0.33	0.35	0.41	0.39	0.46	0.42	0.46	0.42	0.32	0.42	0.28	0.38
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**5.21**	**5.20**	**3.97**	**2.38**	**2.99**	**2.51**	**2.71**	**3.26**	**2.36**	**2.23**	**3.46**	**2.49**	**3.23**

03140106-Perdido

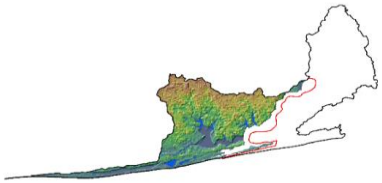
2040 FINAL DATA

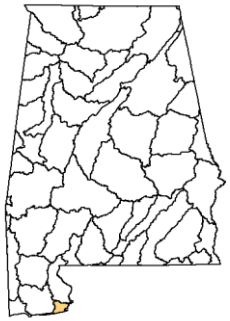
Total SW Withdrawals	SW	0.70	1.07	1.87	4.45	7.06	11.40	12.95	9.67	6.69	4.51	1.73	0.88	5.25
Total GW Withdrawals	SW	9.19	11.22	16.07	32.13	47.93	75.22	84.21	63.52	43.87	30.89	13.96	10.34	36.55
Withdrawal Total		9.90	12.29	17.94	36.59	54.99	86.63	97.16	73.20	50.57	35.40	15.69	11.23	41.80
Total Returns		**5.21**	**5.20**	**3.97**	**2.38**	**2.99**	**2.51**	**2.71**	**3.26**	**2.36**	**2.23**	**3.46**	**2.49**	3.23
Net SW (MGD)	SW	**-4.50**	**-4.13**	**-2.10**	**2.07**	**4.07**	**8.90**	**10.24**	**6.41**	**4.33**	**2.29**	**-1.73**	**-1.61**	**2.02**


03140106-Perdido
2040 FINAL DATA
Million Gallons per Day
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns

Million Gallons per Day
12.00
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140107-Perdido Bay





Area in AL (Square Miles)	165.4
Estimated Population (2040)	47,790
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	10.11	9.36	9.47	11.52	11.84	11.61	12.88	11.11	11.83	10.58	8.56	6.56	10.45
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	1.00	1.55	2.67	6.38	10.31	16.92	19.15	14.10	9.45	6.37	2.40	1.26	7.63
Agriculture	SW	0.25	0.38	0.86	2.20	3.11	4.57	5.34	4.40	3.66	2.45	0.95	0.35	2.38
Total	**SW**	**0.25**	**0.38**	**0.86**	**2.20**	**3.11**	**4.57**	**5.34**	**4.40**	**3.66**	**2.45**	**0.95**	**0.35**	**2.38**
Total	**GW**	**11.12**	**10.93**	**12.15**	**17.92**	**22.17**	**28.54**	**32.05**	**25.23**	**21.30**	**16.97**	**10.98**	**7.83**	**18.10**

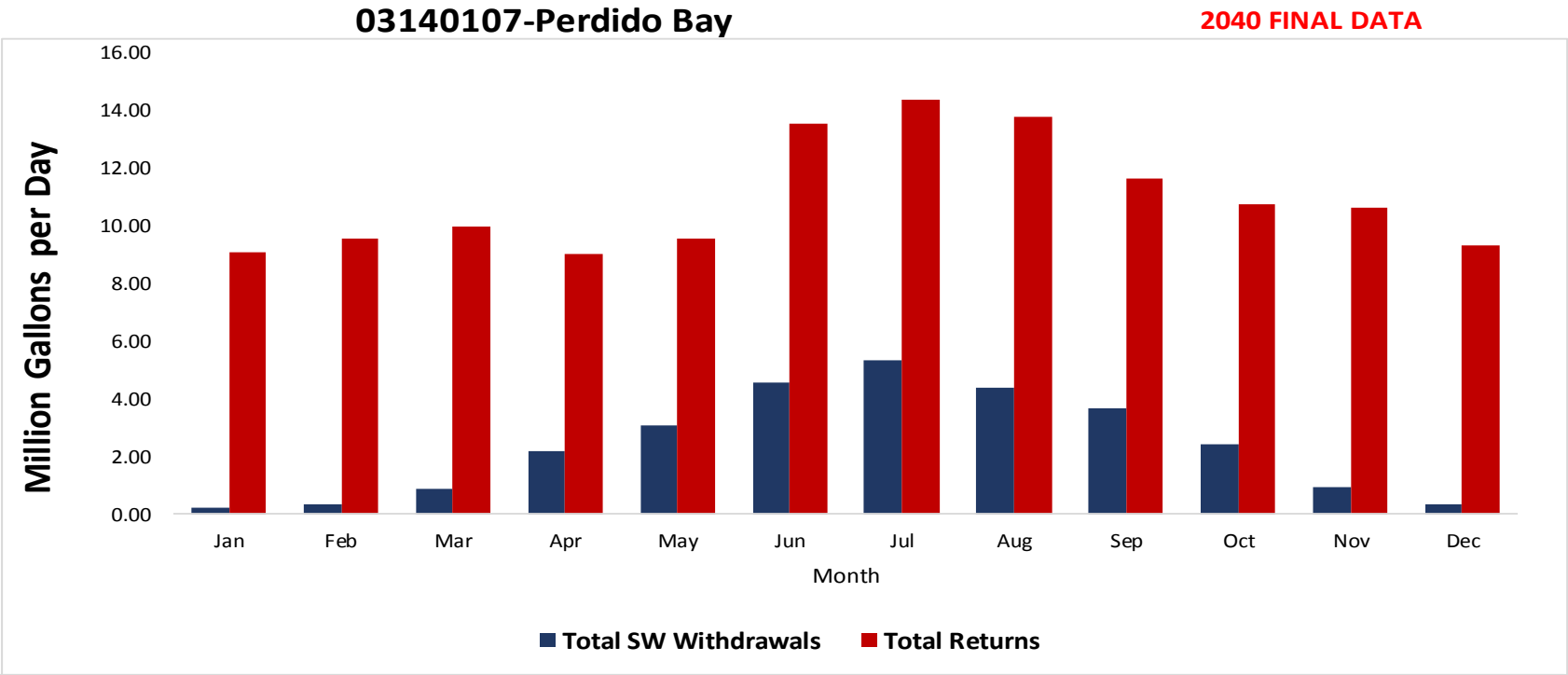
Returns (MGD)

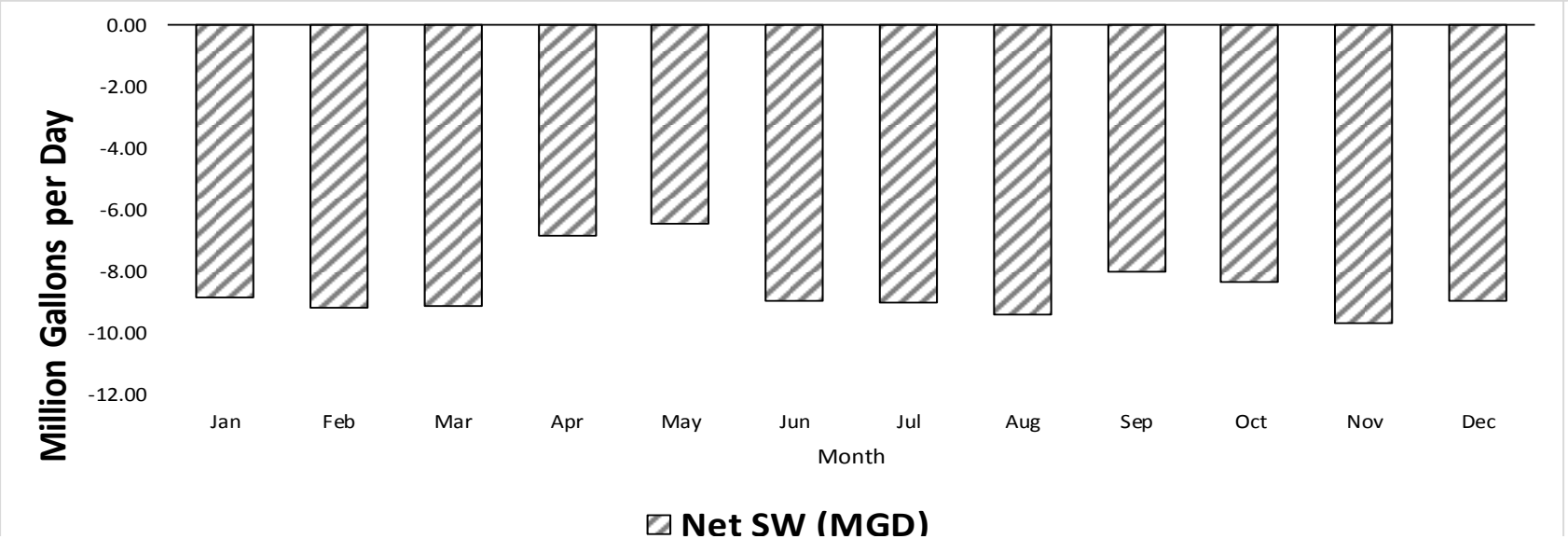
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		9.10	9.58	10.00	9.05	9.55	13.52	14.37	13.80	11.66	10.77	10.62	9.30	10.94
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**9.10**	**9.58**	**10.00**	**9.05**	**9.55**	**13.52**	**14.37**	**13.80**	**11.66**	**10.77**	**10.62**	**9.30**	**10.94**

03140107-Perdido Bay

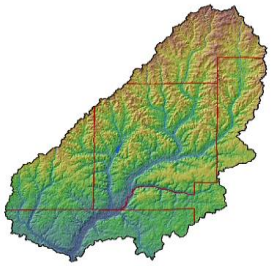
2040 FINAL DATA

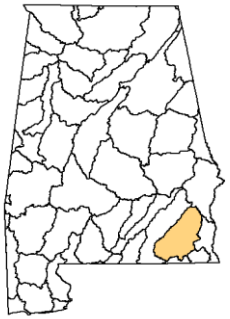
Total SW Withdrawals	SW	0.25	0.38	0.86	2.20	3.11	4.57	5.34	4.40	3.66	2.45	0.95	0.35	2.38
Total GW Withdrawals	SW	11.12	10.93	12.15	17.92	22.17	28.54	32.05	25.23	21.30	16.97	10.98	7.83	18.10
Withdrawal Total		11.37	11.31	13.02	20.12	25.28	33.11	37.39	29.63	24.97	19.41	11.93	8.18	20.48
Total Returns		**9.10**	**9.58**	**10.00**	**9.05**	**9.55**	**13.52**	**14.37**	**13.80**	**11.66**	**10.77**	**10.62**	**9.30**	10.94
Net SW (MGD)	SW	**-8.85**	**-9.20**	**-9.13**	**-6.85**	**-6.43**	**-8.96**	**-9.03**	**-9.40**	**-8.00**	**-8.33**	**-9.66**	**-8.95**	**-8.57**


03140107-Perdido Bay
2040 FINAL DATA
Million Gallons per Day
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140201-Upper Choctawhatchee





Area in AL (Square Miles)	1,543.0
Estimated Population (2040)	186,349
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

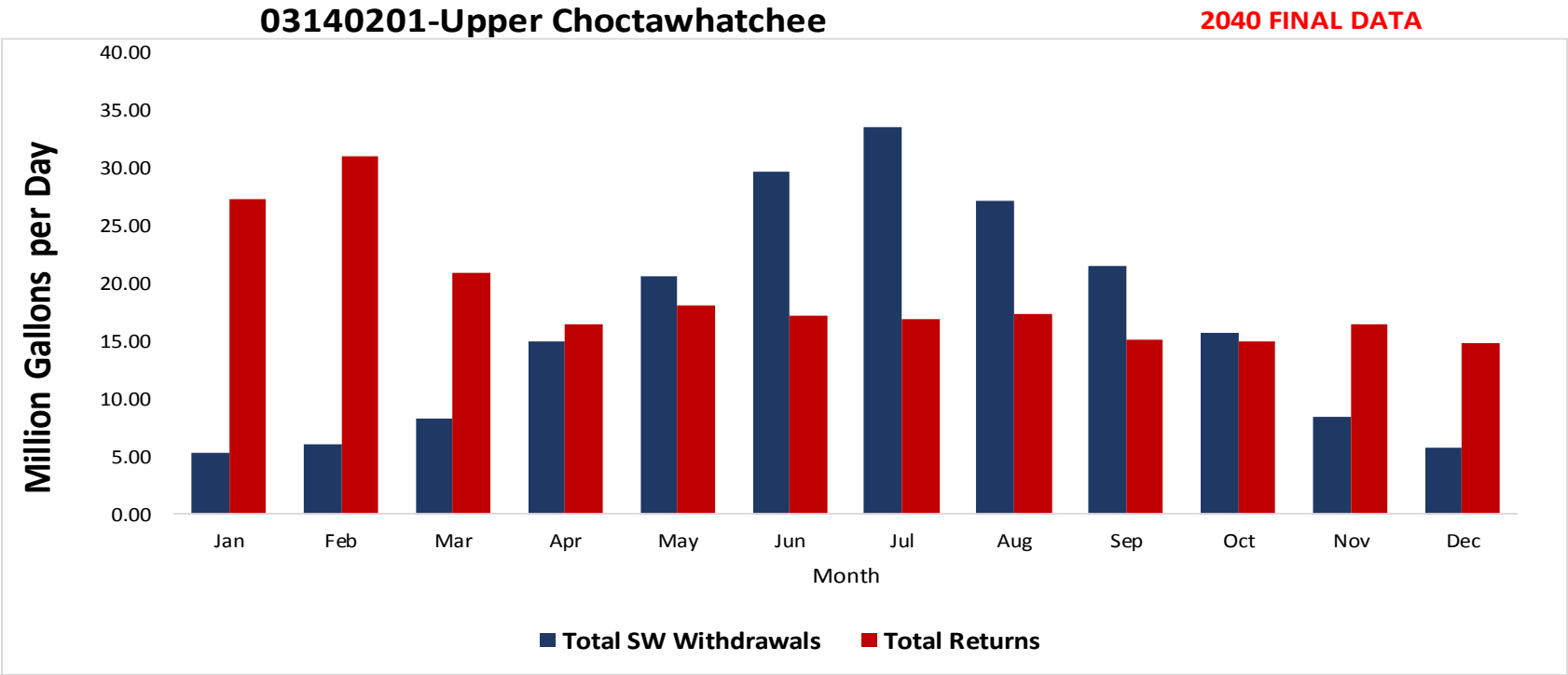
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	20.18	20.29	25.07	23.85	27.82	28.89	28.05	29.18	31.19	25.91	21.85	21.37	25.30
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	1.86	1.51	1.44	1.66	1.45	1.45	1.66	1.52	1.87	1.52	1.66	1.74	1.61
Industrial/Mining/ Thermoelectric	SW	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Agriculture	GW	1.41	1.87	2.80	5.90	9.18	14.69	16.56	12.35	8.46	5.89	2.58	1.62	6.94
Agriculture	SW	5.27	6.07	8.30	14.94	20.51	29.63	33.53	27.07	21.49	15.66	8.37	5.76	16.38
Total	**SW**	**5.33**	**6.13**	**8.36**	**15.00**	**20.57**	**29.68**	**33.59**	**27.13**	**21.55**	**15.72**	**8.43**	**5.82**	**16.44**
Total	**GW**	**23.45**	**23.67**	**29.31**	**31.41**	**38.46**	**45.04**	**46.27**	**43.04**	**41.52**	**33.32**	**26.10**	**24.74**	**33.86**

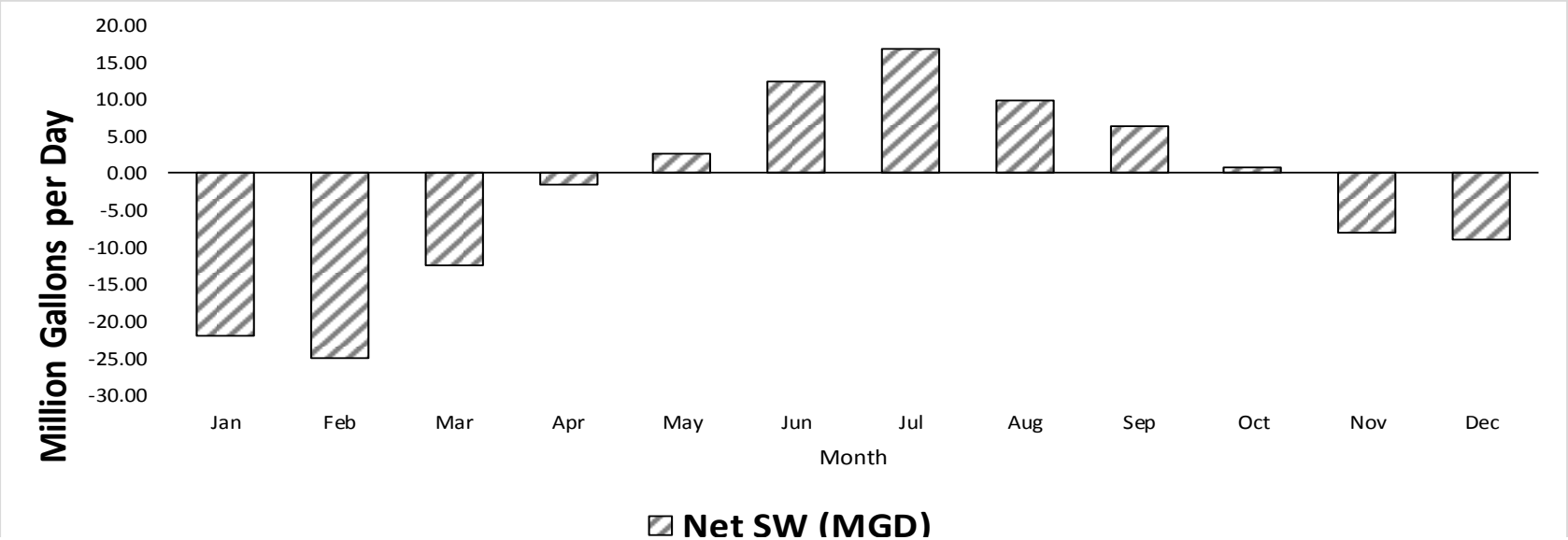
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		24.10	27.69	17.85	13.07	13.51	12.73	12.28	13.00	10.76	10.72	11.77	10.66	14.84
Industrial/Mining/ Thermoelectric		3.18	3.39	3.08	3.42	4.54	4.50	4.62	4.41	4.35	4.27	4.65	4.17	4.05
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**27.28**	**31.08**	**20.93**	**16.49**	**18.05**	**17.23**	**16.89**	**17.40**	**15.11**	**14.99**	**16.42**	**14.83**	**18.89**

03140201-Upper Choctawhatchee

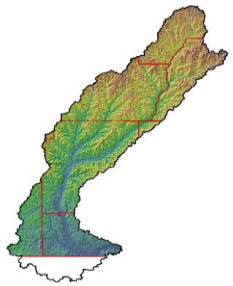
2040 FINAL DATA

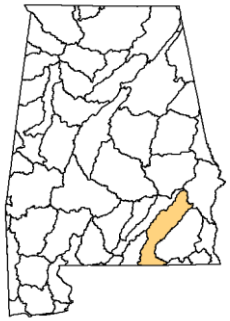
Total SW Withdrawals	SW	5.33	6.13	8.36	15.00	20.57	29.68	33.59	27.13	21.55	15.72	8.43	5.82	16.44
Total GW Withdrawals	SW	23.45	23.67	29.31	31.41	38.46	45.04	46.27	43.04	41.52	33.32	26.10	24.74	33.86
Withdrawal Total		28.78	29.80	37.67	46.41	59.03	74.72	79.86	70.17	63.07	49.04	34.53	30.56	50.30
Total Returns		**27.28**	**31.08**	**20.93**	**16.49**	**18.05**	**17.23**	**16.89**	**17.40**	**15.11**	**14.99**	**16.42**	**14.83**	18.89
Net SW (MGD)	SW	**-21.95**	**-24.95**	**-12.57**	**-1.49**	**2.52**	**12.46**	**16.70**	**9.72**	**6.44**	**0.73**	**-7.99**	**-9.02**	**-2.45**


03140201-Upper Choctawhatchee
2040 FINAL DATA
Million Gallons per Day
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140202-Pea





Area in AL (Square Miles)	1,444.7
Estimated Population (2040)	58,117
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

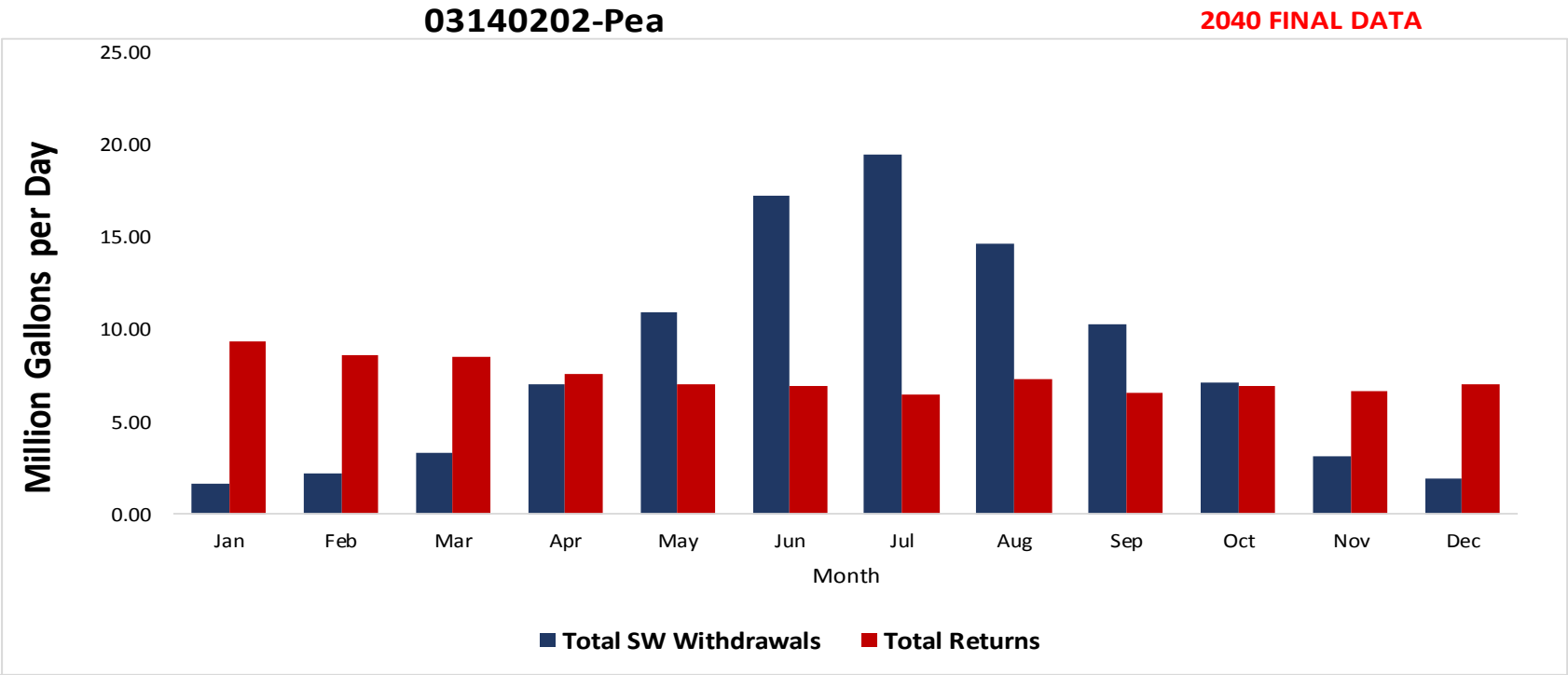
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	7.16	6.81	6.73	7.52	7.97	7.80	8.11	8.48	8.71	7.68	6.86	6.82	7.55
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.84	1.01	1.05	1.04	0.97	1.06	1.03	1.10	1.07	1.04	1.11	0.98	1.02
Industrial/Mining/ Thermoelectric	SW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Agriculture	GW	1.02	1.31	1.88	3.78	5.79	9.17	10.31	7.73	5.35	3.77	1.74	1.15	4.42
Agriculture	SW	1.67	2.21	3.34	7.06	10.88	17.25	19.48	14.65	10.23	7.11	3.12	1.93	8.25
Total	**SW**	**1.70**	**2.24**	**3.37**	**7.09**	**10.90**	**17.28**	**19.51**	**14.68**	**10.26**	**7.14**	**3.15**	**1.96**	**8.27**
Total	**GW**	**9.02**	**9.12**	**9.66**	**12.34**	**14.72**	**18.03**	**19.45**	**17.31**	**15.12**	**12.48**	**9.71**	**8.96**	**12.99**

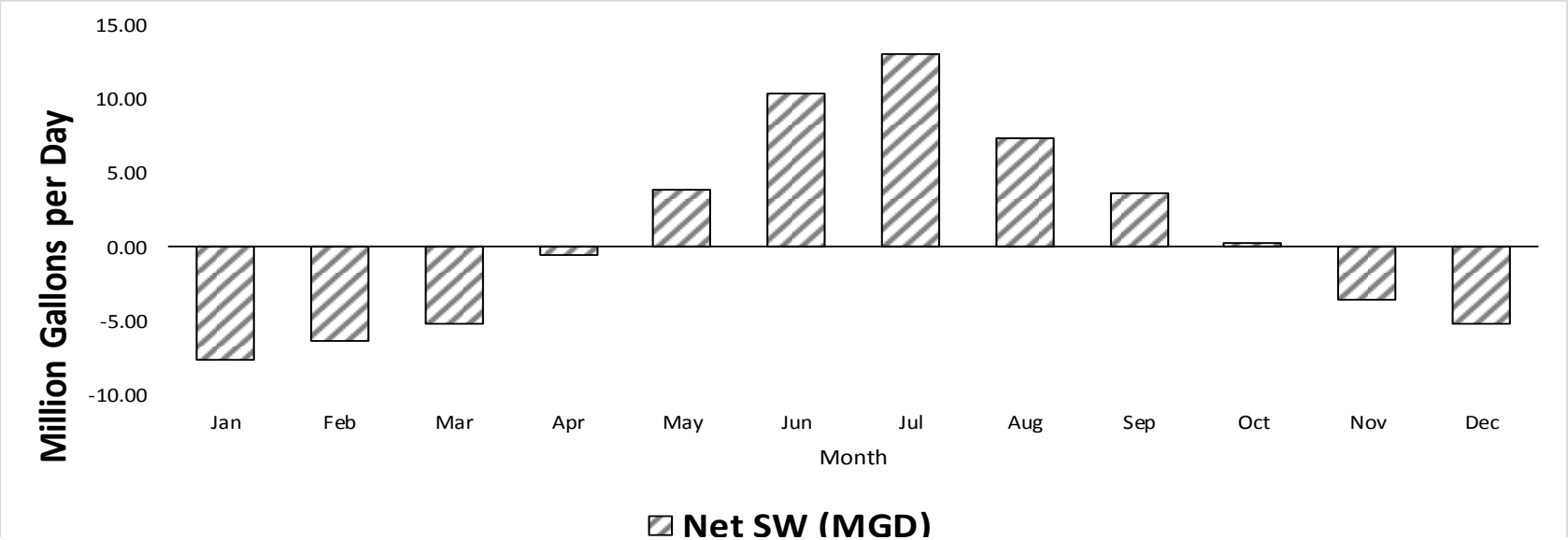
Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		8.48	7.72	7.76	6.80	6.19	6.11	5.85	6.51	5.94	5.95	5.93	6.16	6.62
Industrial/Mining/ Thermoelectric		0.86	0.91	0.81	0.82	0.82	0.83	0.67	0.86	0.63	0.97	0.78	0.92	0.82
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**9.34**	**8.63**	**8.57**	**7.62**	**7.01**	**6.94**	**6.52**	**7.36**	**6.57**	**6.91**	**6.71**	**7.08**	**7.44**

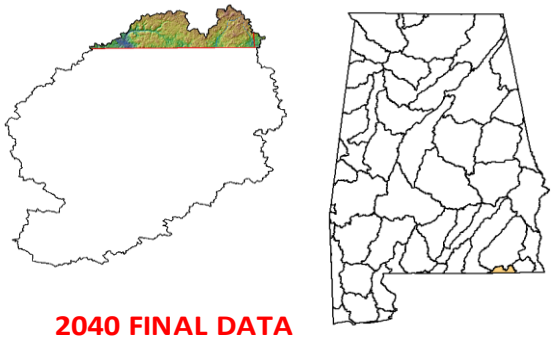
03140202-Pea 2040 FINAL DATA

Total SW Withdrawals	SW	1.70	2.24	3.37	7.09	10.90	17.28	19.51	14.68	10.26	7.14	3.15	1.96	8.27
Total GW Withdrawals	SW	9.02	9.12	9.66	12.34	14.72	18.03	19.45	17.31	15.12	12.48	9.71	8.96	12.99
Withdrawal Total		10.71	11.36	13.03	19.43	25.63	35.31	38.96	31.99	25.38	19.62	12.86	10.91	21.27
Total Returns		**9.34**	**8.63**	**8.57**	**7.62**	**7.01**	**6.94**	**6.52**	**7.36**	**6.57**	**6.91**	**6.71**	**7.08**	7.44
Net SW (MGD)	SW	**-7.64**	**-6.39**	**-5.20**	**-0.53**	**3.90**	**10.35**	**12.99**	**7.32**	**3.69**	**0.22**	**-3.56**	**-5.12**	**0.83**


03140202-Pea
2040 FINAL DATA
Million Gallons per Day
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
15.00
10.00
5.00
0.00
-5.00
-10.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140203-Lower Choctawhatchee



Area in AL (Square Miles)	134.7
Estimated Population (2040)	7,905
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.60	0.51	0.54	0.60	0.68	0.78	0.73	0.69	0.73	0.58	0.57	0.58	0.63
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining/ Thermoelectric	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Agriculture	GW	0.21	0.29	0.45	0.99	1.56	2.52	2.84	2.11	1.44	0.99	0.42	0.25	1.17
Agriculture	SW	0.23	0.32	0.48	1.04	1.62	2.61	2.94	2.19	1.50	1.04	0.44	0.27	1.22
Total	**SW**	**0.24**	**0.32**	**0.49**	**1.04**	**1.63**	**2.62**	**2.95**	**2.20**	**1.50**	**1.04**	**0.45**	**0.28**	**1.23**
Total	**GW**	**0.83**	**0.82**	**1.01**	**1.60**	**2.26**	**3.31**	**3.59**	**2.82**	**2.18**	**1.58**	**1.01**	**0.84**	**1.82**

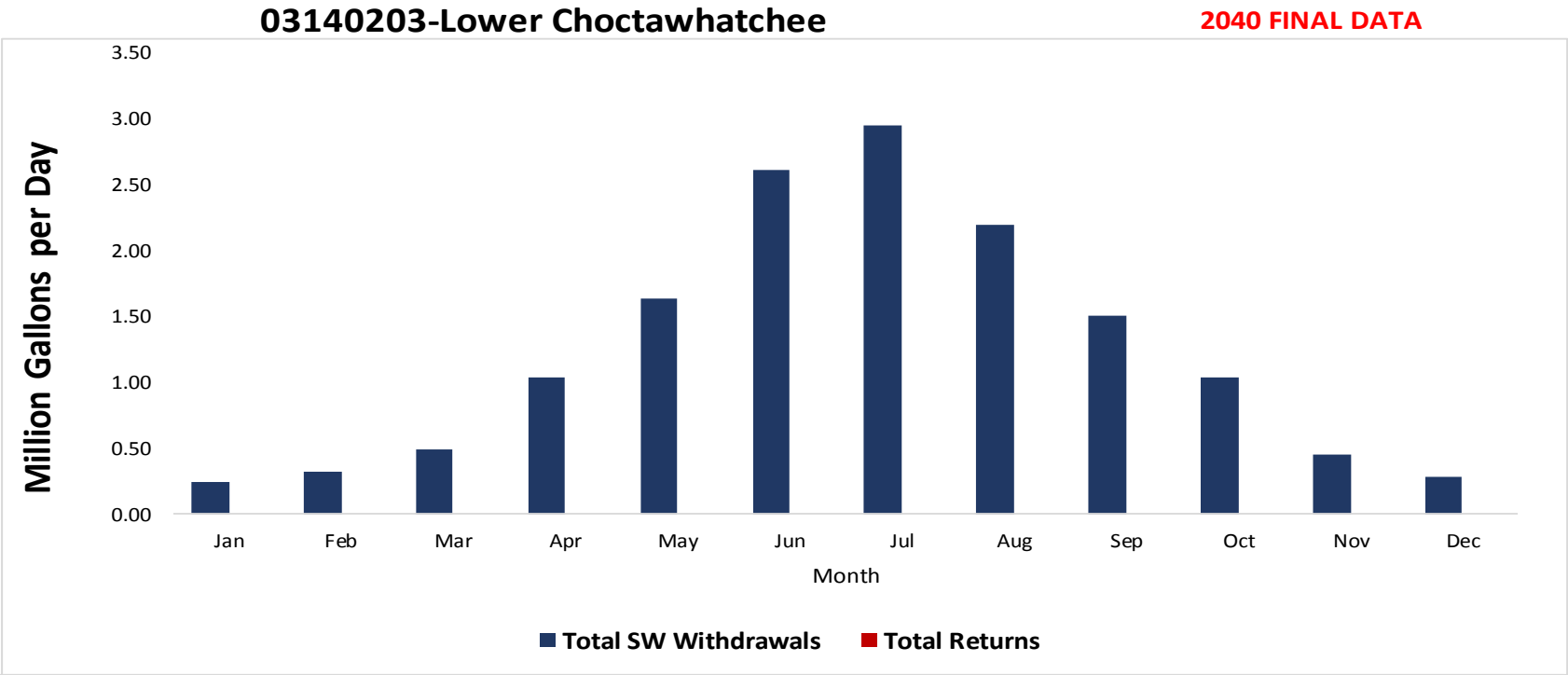
Returns (MGD)

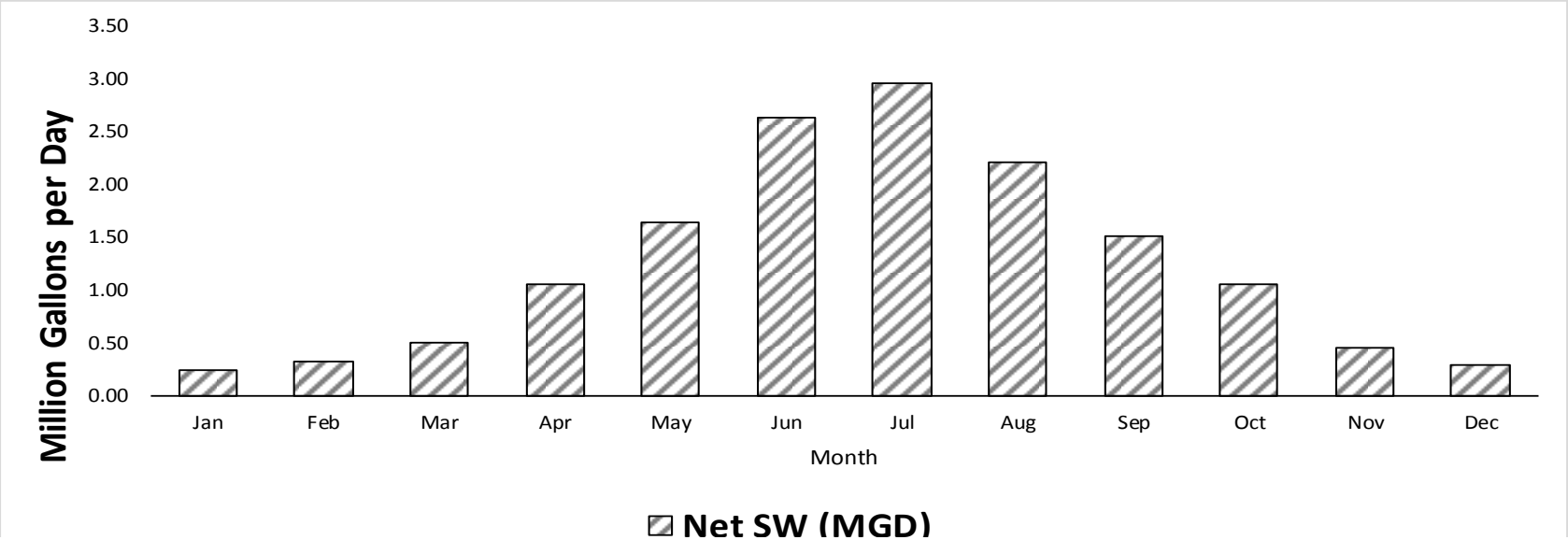
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

03140203-Lower Choctawhatchee

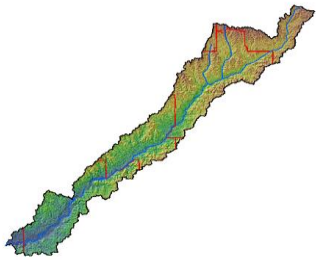
2040 FINAL DATA

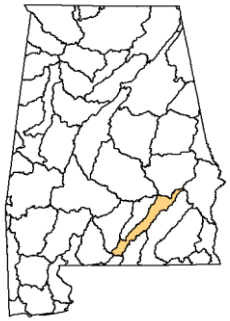
Total SW Withdrawals	SW	0.24	0.32	0.49	1.04	1.63	2.62	2.95	2.20	1.50	1.04	0.45	0.28	1.23
Total GW Withdrawals	SW	0.83	0.82	1.01	1.60	2.26	3.31	3.59	2.82	2.18	1.58	1.01	0.84	1.82
Withdrawal Total		1.07	1.14	1.50	2.65	3.89	5.93	6.54	5.01	3.68	2.62	1.46	1.12	3.05
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.24**	**0.32**	**0.49**	**1.04**	**1.63**	**2.62**	**2.95**	**2.20**	**1.50**	**1.04**	**0.45**	**0.28**	**1.23**


03140203-Lower Choctawhatchee
2040 FINAL DATA
Million Gallons per Day
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140301-Upper Conecuh





Area in AL (Square Miles)	822.0
Estimated Population (2040)	30,561
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

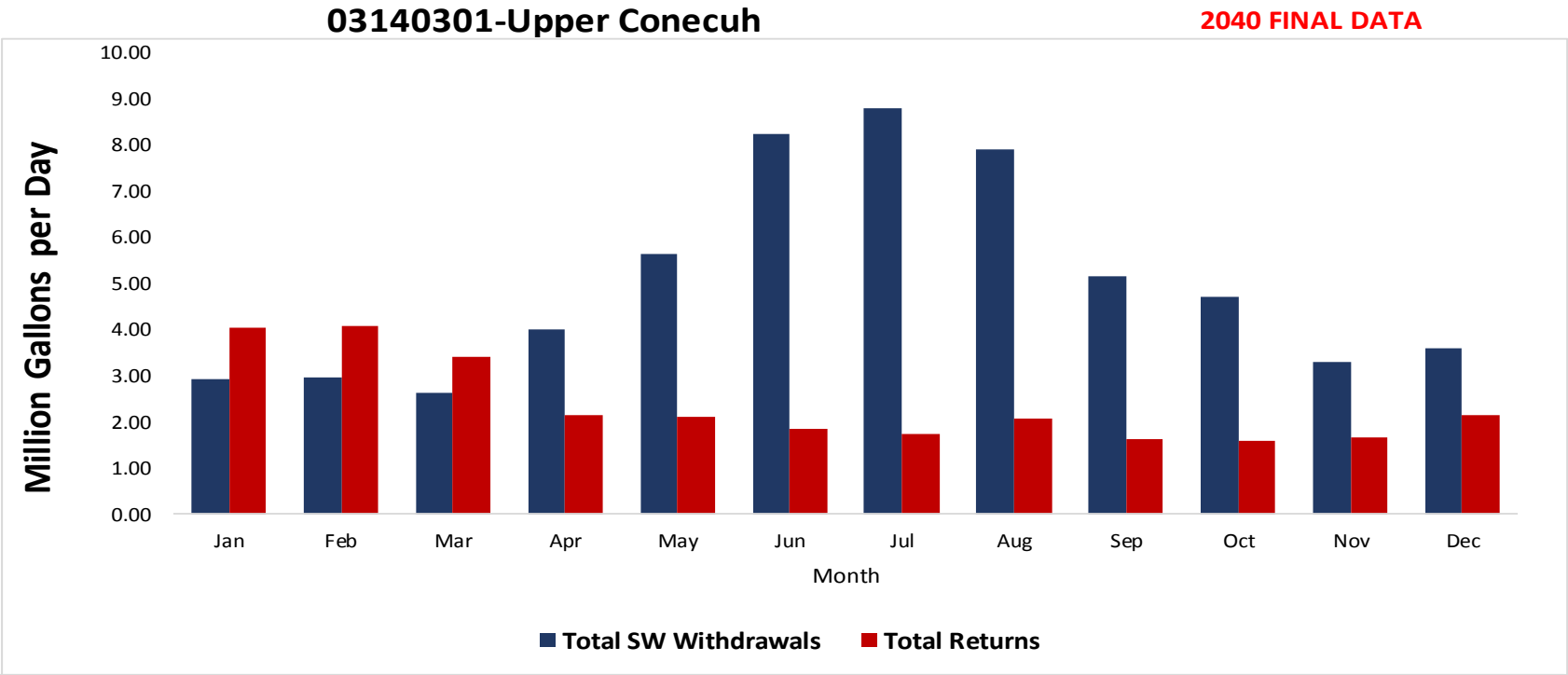
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	9.04	7.20	7.12	7.60	7.98	8.48	8.47	8.33	8.71	8.89	6.92	6.99	7.98
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Industrial/Mining/ Thermoelectric	SW	2.33	2.25	1.56	1.93	2.70	3.84	3.81	3.94	2.15	2.56	2.24	2.92	2.69
Agriculture	GW	0.42	0.50	0.66	1.21	1.78	2.75	3.07	2.33	1.65	1.20	0.62	0.46	1.39
Agriculture	SW	0.61	0.73	1.06	2.07	2.95	4.41	5.01	3.95	3.02	2.15	1.06	0.68	2.31
Total	**SW**	**2.94**	**2.99**	**2.62**	**4.00**	**5.65**	**8.25**	**8.81**	**7.89**	**5.18**	**4.71**	**3.29**	**3.60**	**5.00**
Total	**GW**	**9.49**	**7.73**	**7.82**	**8.84**	**9.79**	**11.26**	**11.58**	**10.70**	**10.40**	**10.13**	**7.58**	**7.48**	**9.40**

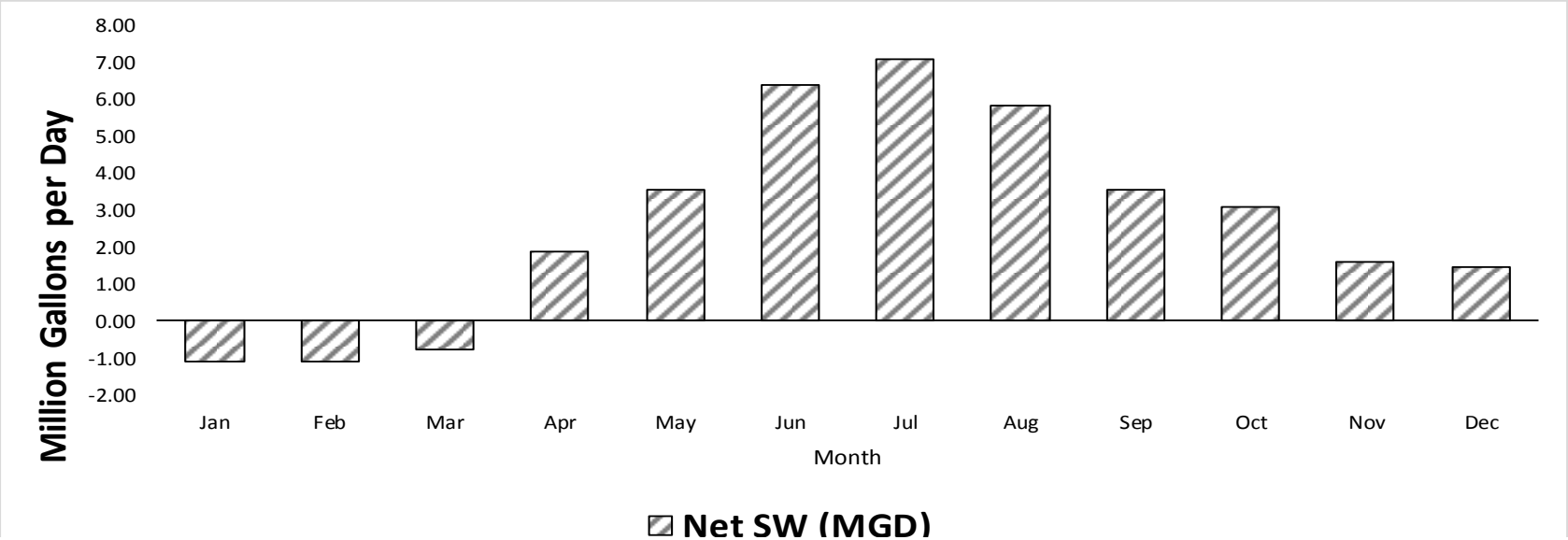
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		3.88	3.87	3.24	1.98	1.98	1.58	1.45	1.63	1.38	1.22	1.31	1.79	2.11
Industrial/Mining/ Thermoelectric		0.17	0.19	0.17	0.16	0.14	0.28	0.30	0.43	0.26	0.39	0.37	0.36	0.27
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.05**	**4.07**	**3.41**	**2.14**	**2.12**	**1.86**	**1.75**	**2.06**	**1.64**	**1.61**	**1.68**	**2.14**	**2.38**

03140301-Upper Conecuh

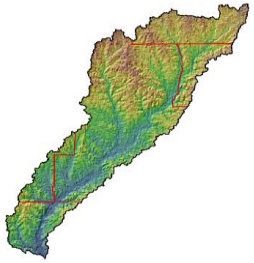
2040 FINAL DATA

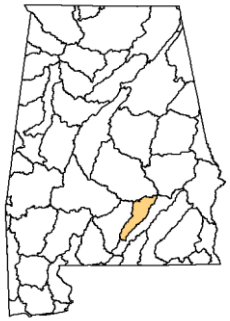
Total SW Withdrawals	SW	2.94	2.99	2.62	4.00	5.65	8.25	8.81	7.89	5.18	4.71	3.29	3.60	5.00
Total GW Withdrawals	SW	9.49	7.73	7.82	8.84	9.79	11.26	11.58	10.70	10.40	10.13	7.58	7.48	9.40
Withdrawal Total		12.43	10.72	10.44	12.84	15.44	19.52	20.39	18.58	15.57	14.84	10.87	11.09	14.40
Total Returns		**4.05**	**4.07**	**3.41**	**2.14**	**2.12**	**1.86**	**1.75**	**2.06**	**1.64**	**1.61**	**1.68**	**2.14**	2.38
Net SW (MGD)	SW	**-1.11**	**-1.08**	**-0.78**	**1.86**	**3.54**	**6.39**	**7.06**	**5.83**	**3.54**	**3.10**	**1.61**	**1.46**	**2.62**


03140301-Upper Conecuh
2040 FINAL DATA
Million Gallons per Day
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140302-Patsaliga





Area in AL (Square Miles)	600.0
Estimated Population (2040)	13,333
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.52	1.36	1.21	1.47	1.59	1.73	1.71	1.44	1.48	1.23	1.18	1.18	1.43
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Industrial/Mining/ Thermoelectric	SW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Agriculture	GW	0.30	0.33	0.39	0.57	0.77	1.09	1.20	0.95	0.72	0.57	0.37	0.32	0.63
Agriculture	SW	0.43	0.46	0.52	0.75	0.98	1.37	1.50	1.20	0.93	0.74	0.51	0.44	0.82
Total	**SW**	**0.47**	**0.51**	**0.57**	**0.79**	**1.03**	**1.42**	**1.55**	**1.25**	**0.98**	**0.79**	**0.56**	**0.49**	**0.87**
Total	**GW**	**1.93**	**1.80**	**1.71**	**2.14**	**2.47**	**2.93**	**3.02**	**2.50**	**2.31**	**1.91**	**1.66**	**1.61**	**2.16**

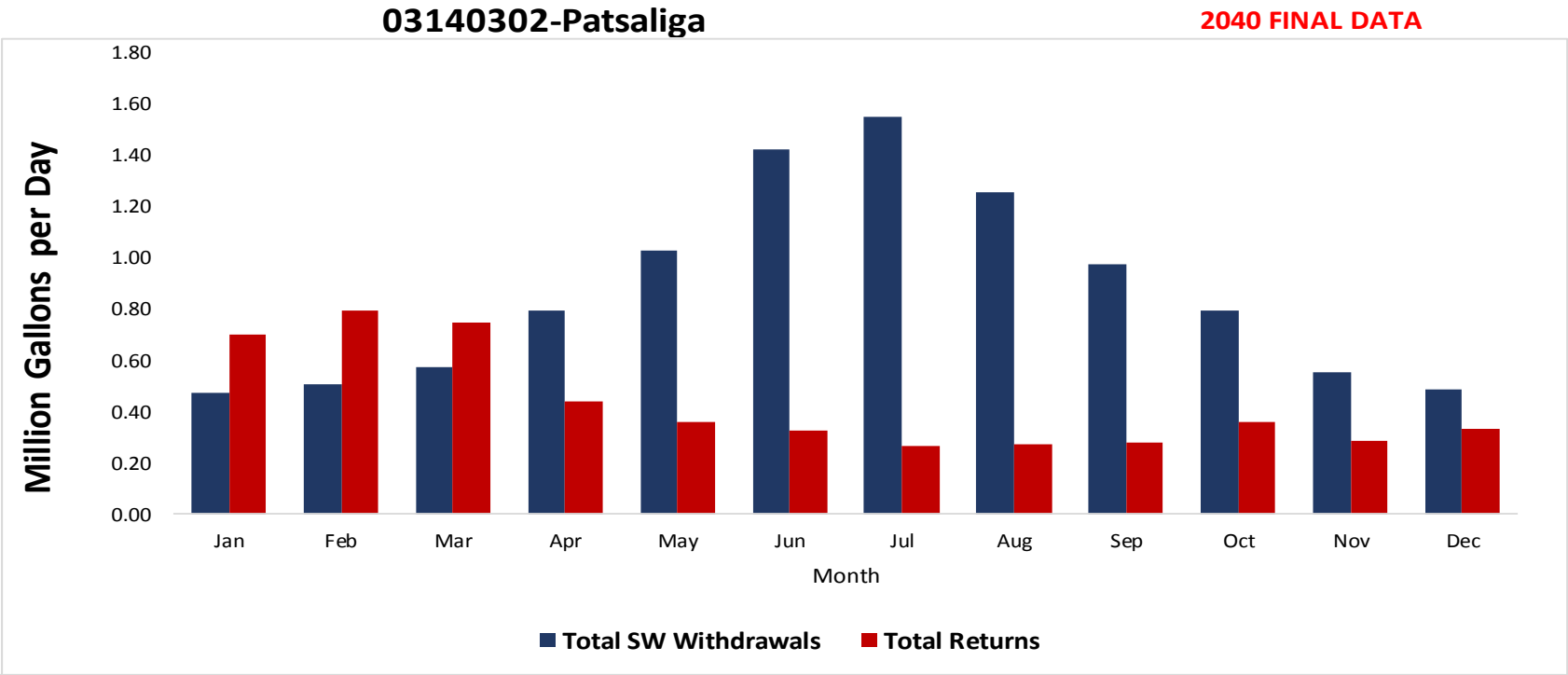
Returns (MGD)

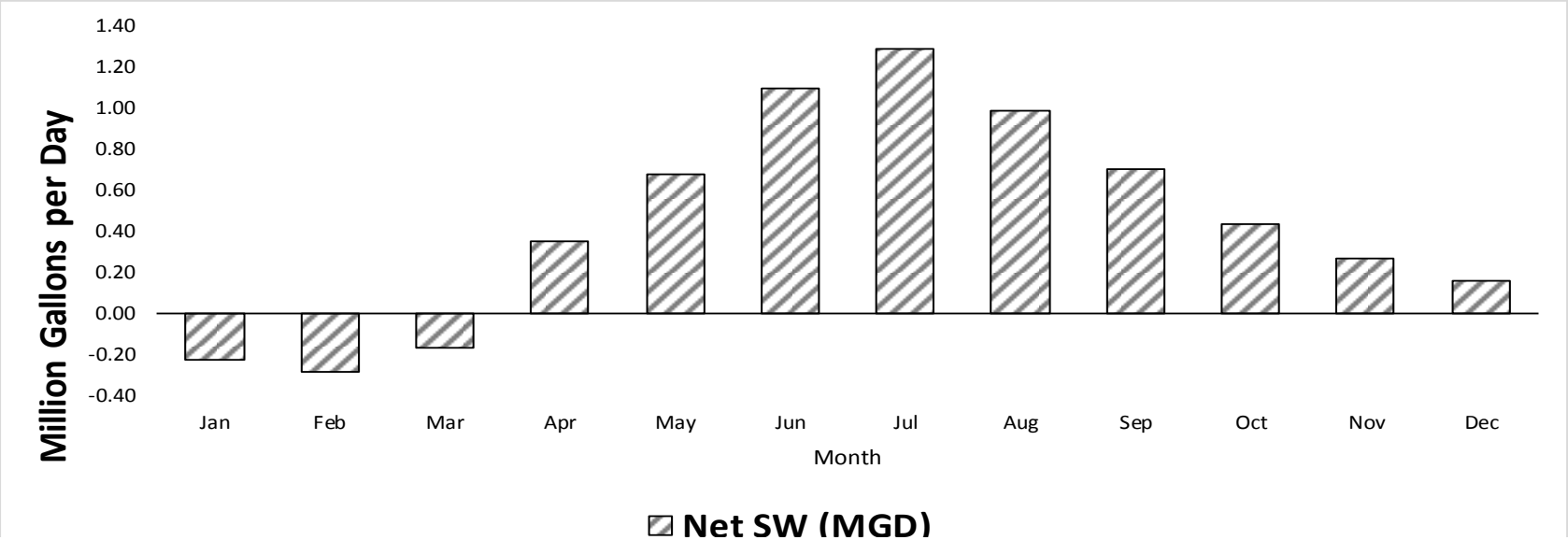
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.70	0.79	0.75	0.44	0.36	0.33	0.27	0.27	0.28	0.36	0.29	0.34	0.43
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.70**	**0.79**	**0.75**	**0.44**	**0.36**	**0.33**	**0.27**	**0.27**	**0.28**	**0.36**	**0.29**	**0.34**	**0.43**

03140302-Patsaliga

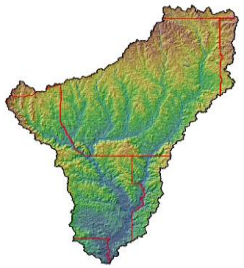
2040 FINAL DATA

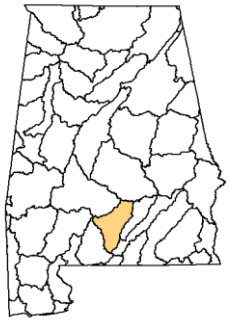
Total SW Withdrawals	SW	0.47	0.51	0.57	0.79	1.03	1.42	1.55	1.25	0.98	0.79	0.56	0.49	0.87
Total GW Withdrawals	SW	1.93	1.80	1.71	2.14	2.47	2.93	3.02	2.50	2.31	1.91	1.66	1.61	2.16
Withdrawal Total		2.41	2.31	2.28	2.94	3.49	4.35	4.57	3.75	3.29	2.70	2.22	2.09	3.03
Total Returns		**0.70**	**0.79**	**0.75**	**0.44**	**0.36**	**0.33**	**0.27**	**0.27**	**0.28**	**0.36**	**0.29**	**0.34**	0.43
Net SW (MGD)	SW	**-0.23**	**-0.28**	**-0.17**	**0.35**	**0.67**	**1.10**	**1.29**	**0.98**	**0.70**	**0.43**	**0.27**	**0.15**	**0.44**


03140302-Patsaliga
2040 FINAL DATA
Million Gallons per Day
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140303-Sepulga





Area in AL (Square Miles)	1,049.0
Estimated Population (2040)	24,523
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.08	2.69	2.65	2.65	2.75	2.96	3.00	2.77	2.58	2.56	2.55	2.62	2.74
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.18	0.19	0.21	0.22	0.21	0.20	0.27	0.23	0.25	0.24	0.28	0.26	0.23
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.24	0.25	0.27	0.36	0.44	0.59	0.64	0.53	0.42	0.36	0.27	0.24	0.38
Agriculture	SW	0.96	1.06	1.60	2.97	3.61	4.55	5.33	4.88	4.69	3.38	1.80	1.07	2.99
Total	**SW**	**0.96**	**1.06**	**1.60**	**2.97**	**3.61**	**4.56**	**5.33**	**4.89**	**4.69**	**3.38**	**1.81**	**1.07**	**2.99**
Total	**GW**	**3.50**	**3.14**	**3.13**	**3.22**	**3.41**	**3.74**	**3.91**	**3.53**	**3.25**	**3.15**	**3.10**	**3.12**	**3.35**

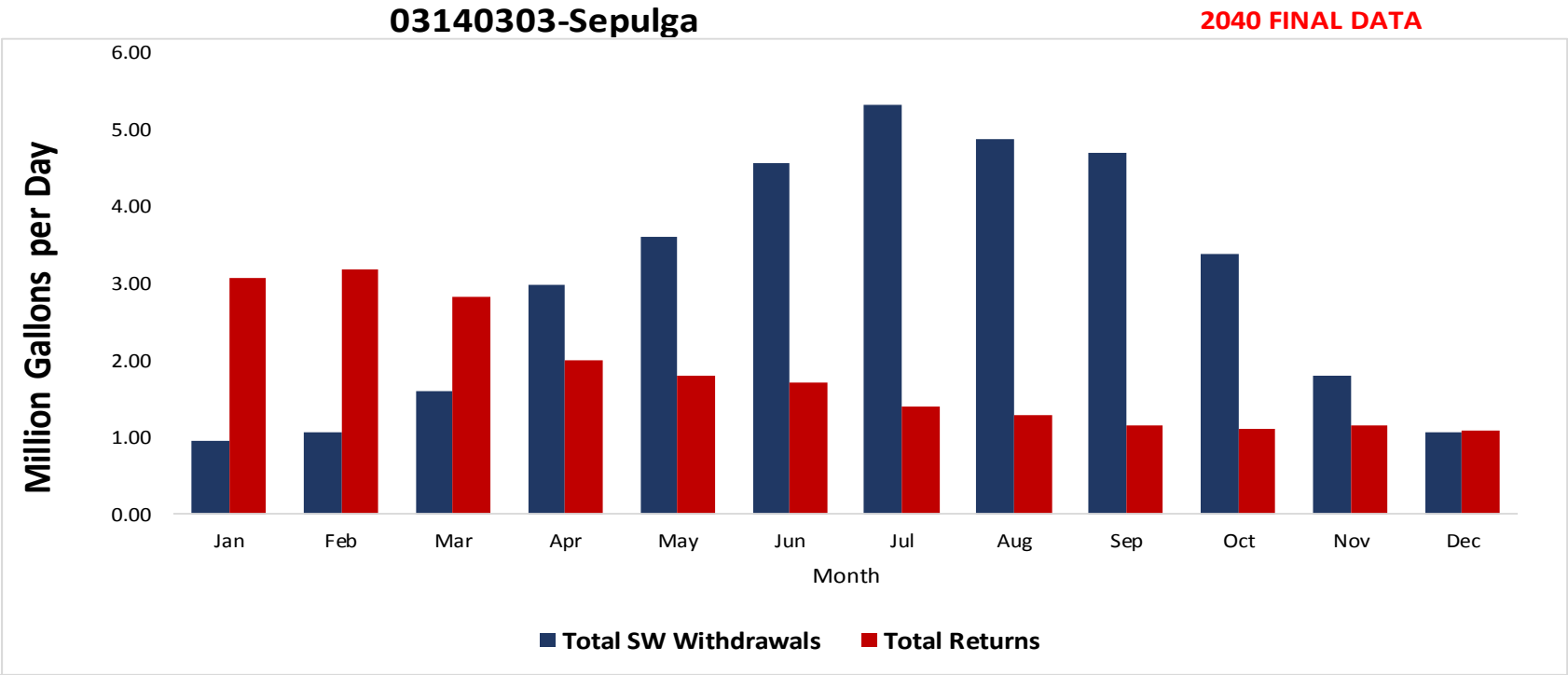
Returns (MGD)

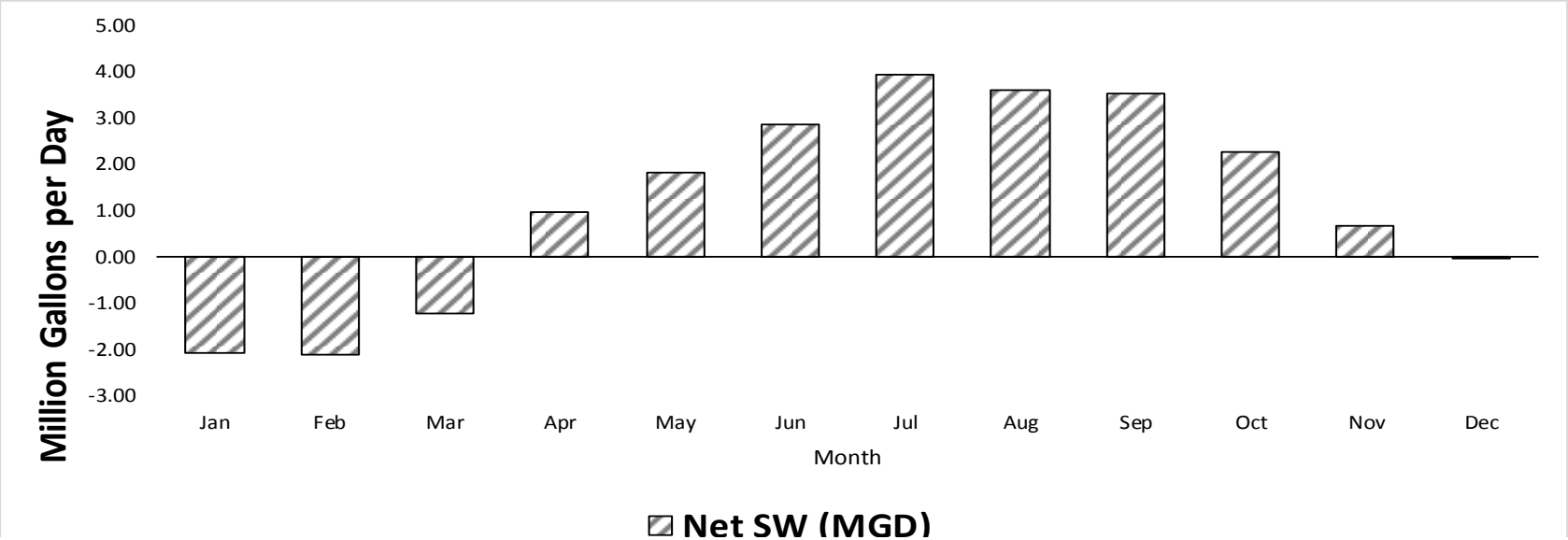
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.03	3.16	2.79	1.97	1.77	1.68	1.37	1.27	1.13	1.09	1.12	1.07	1.79
Industrial/Mining/ Thermoelectric		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**3.06**	**3.19**	**2.82**	**2.00**	**1.80**	**1.71**	**1.40**	**1.30**	**1.15**	**1.11**	**1.15**	**1.10**	**1.82**

03140303-Sepulga

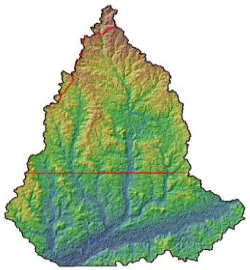
2040 FINAL DATA

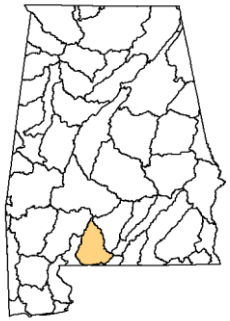
Total SW Withdrawals	SW	0.96	1.06	1.60	2.97	3.61	4.56	5.33	4.89	4.69	3.38	1.81	1.07	2.99
Total GW Withdrawals	SW	3.50	3.14	3.13	3.22	3.41	3.74	3.91	3.53	3.25	3.15	3.10	3.12	3.35
Withdrawal Total		4.47	4.20	4.74	6.20	7.02	8.30	9.24	8.42	7.94	6.53	4.90	4.19	6.35
Total Returns		**3.06**	**3.19**	**2.82**	**2.00**	**1.80**	**1.71**	**1.40**	**1.30**	**1.15**	**1.11**	**1.15**	**1.10**	1.82
Net SW (MGD)	SW	**-2.10**	**-2.13**	**-1.22**	**0.97**	**1.82**	**2.85**	**3.93**	**3.59**	**3.54**	**2.27**	**0.66**	**-0.03**	**1.18**


03140303-Sepulga
2040 FINAL DATA
Million Gallons per Day
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140304-Lower Conecuh





Area in AL (Square Miles)	999.7
Estimated Population (2040)	23,295
Subregion:	Choctawhatchee-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.82	2.95	2.96	3.30	3.39	3.80	4.54	3.57	3.65	3.76	2.96	3.20	3.49
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	2.54	2.54	2.54	2.54	2.54	2.76	2.54	2.57	2.69	2.62	2.56	2.62	2.59
Industrial/Mining/ Thermoelectric	SW	46.80	59.76	59.59	60.45	61.83	61.66	61.48	56.99	57.17	57.86	56.99	58.13	58.23
Agriculture	GW	0.14	0.18	0.26	0.52	0.80	1.26	1.42	1.06	0.74	0.52	0.24	0.16	0.61
Agriculture	SW	0.27	0.29	0.39	0.64	0.80	1.04	1.19	1.04	0.93	0.70	0.41	0.29	0.67
Total	**SW**	**47.08**	**60.05**	**59.97**	**61.09**	**62.63**	**62.70**	**62.67**	**58.03**	**58.10**	**58.56**	**57.41**	**58.42**	**58.89**
Total	**GW**	**6.50**	**5.67**	**5.75**	**6.36**	**6.72**	**7.82**	**8.49**	**7.20**	**7.08**	**6.90**	**5.76**	**5.98**	**6.69**

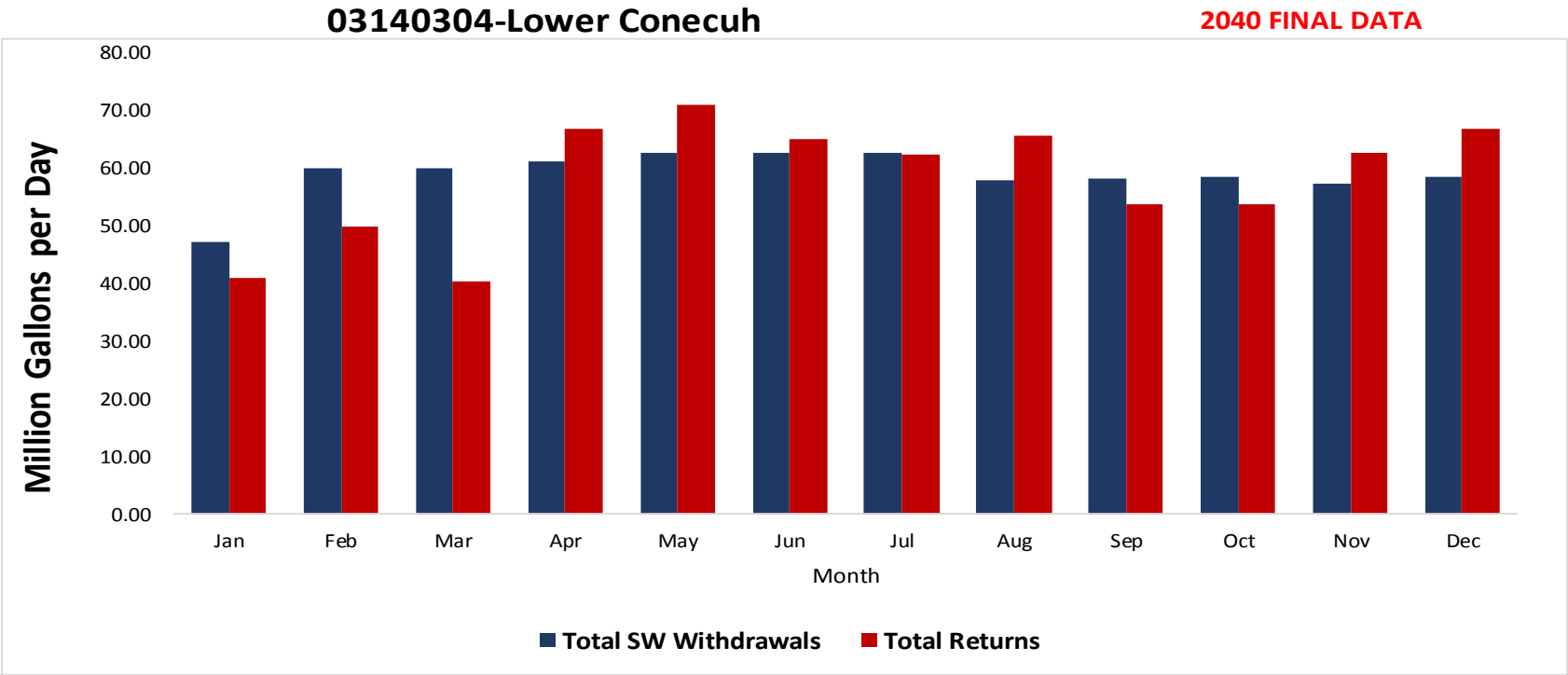
Returns (MGD)

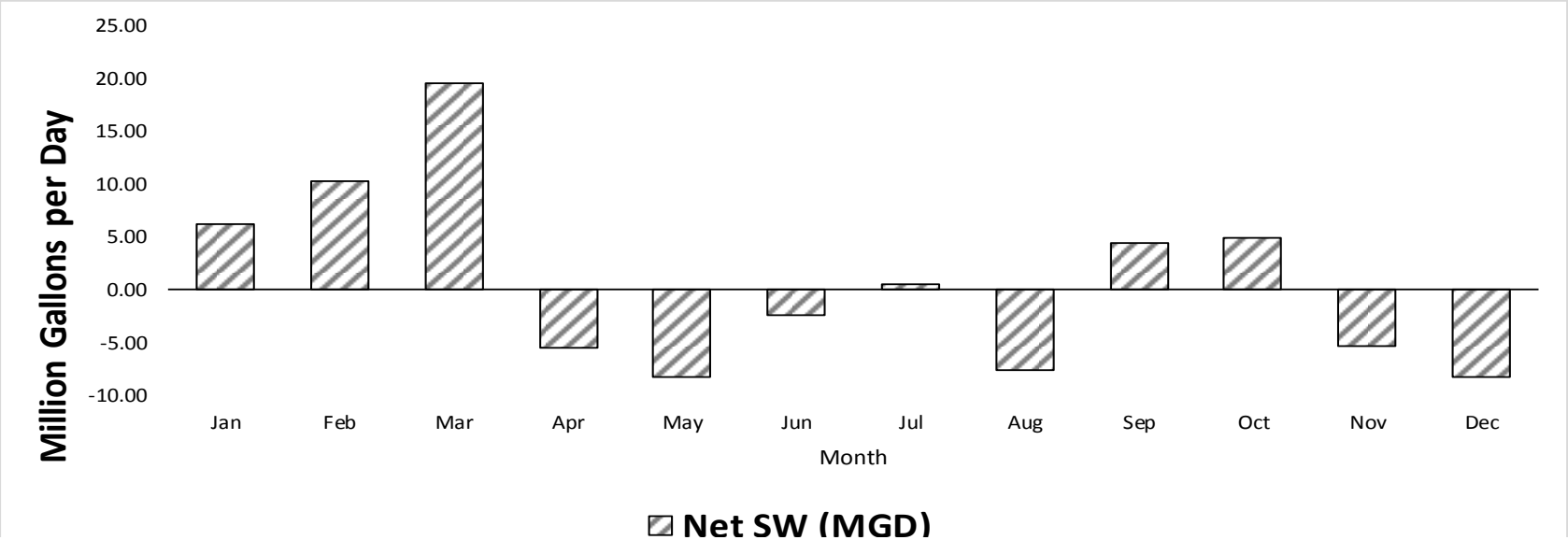
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.13	3.80	2.73	1.37	2.84	1.35	1.60	3.17	1.02	1.28	2.09	1.38	2.15
Industrial/Mining/ Thermoelectric		37.76	45.98	37.69	65.29	68.13	63.71	60.62	62.49	52.64	52.38	60.62	65.38	56.06
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**40.89**	**49.77**	**40.42**	**66.66**	**70.97**	**65.06**	**62.21**	**65.66**	**53.66**	**53.66**	**62.70**	**66.76**	**58.20**

03140304-Lower Conecuh

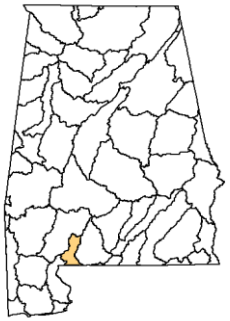
2040 FINAL DATA

Total SW Withdrawals	SW	47.08	60.05	59.97	61.09	62.63	62.70	62.67	58.03	58.10	58.56	57.41	58.42	58.89
Total GW Withdrawals	SW	6.50	5.67	5.75	6.36	6.72	7.82	8.49	7.20	7.08	6.90	5.76	5.98	6.69
Withdrawal Total		53.58	65.72	65.73	67.45	69.35	70.52	71.17	65.23	65.18	65.46	63.17	64.40	65.58
Total Returns		**40.89**	**49.77**	**40.42**	**66.66**	**70.97**	**65.06**	**62.21**	**65.66**	**53.66**	**53.66**	**62.70**	**66.76**	58.20
Net SW (MGD)	SW	**6.19**	**10.28**	**19.56**	**-5.57**	**-8.34**	**-2.36**	**0.46**	**-7.62**	**4.44**	**4.89**	**-5.30**	**-8.33**	**0.69**


03140304-Lower Conecuh
2040 FINAL DATA
Million Gallons per Day
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
25.00
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03140305-Escambia



Area in AL (Square Miles)	365.8
Estimated Population (2040)	17,207
Subregion:	Perdido-Escambia

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	2.29	1.96	1.96	2.00	2.86	2.30	2.29	2.04	2.07	2.05	1.90	1.75	2.12
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.29	0.44	0.75	1.75	2.82	4.61	5.22	3.85	2.59	1.75	0.67	0.36	2.09
Agriculture	SW	0.12	0.17	0.30	0.68	1.02	1.59	1.82	1.40	1.03	0.70	0.29	0.15	0.77
Total	**SW**	**0.12**	**0.17**	**0.30**	**0.68**	**1.02**	**1.59**	**1.82**	**1.40**	**1.03**	**0.70**	**0.29**	**0.15**	**0.77**
Total	**GW**	**2.84**	**2.66**	**2.96**	**4.01**	**5.94**	**7.17**	**7.77**	**6.14**	**4.91**	**4.05**	**2.83**	**2.37**	**4.47**

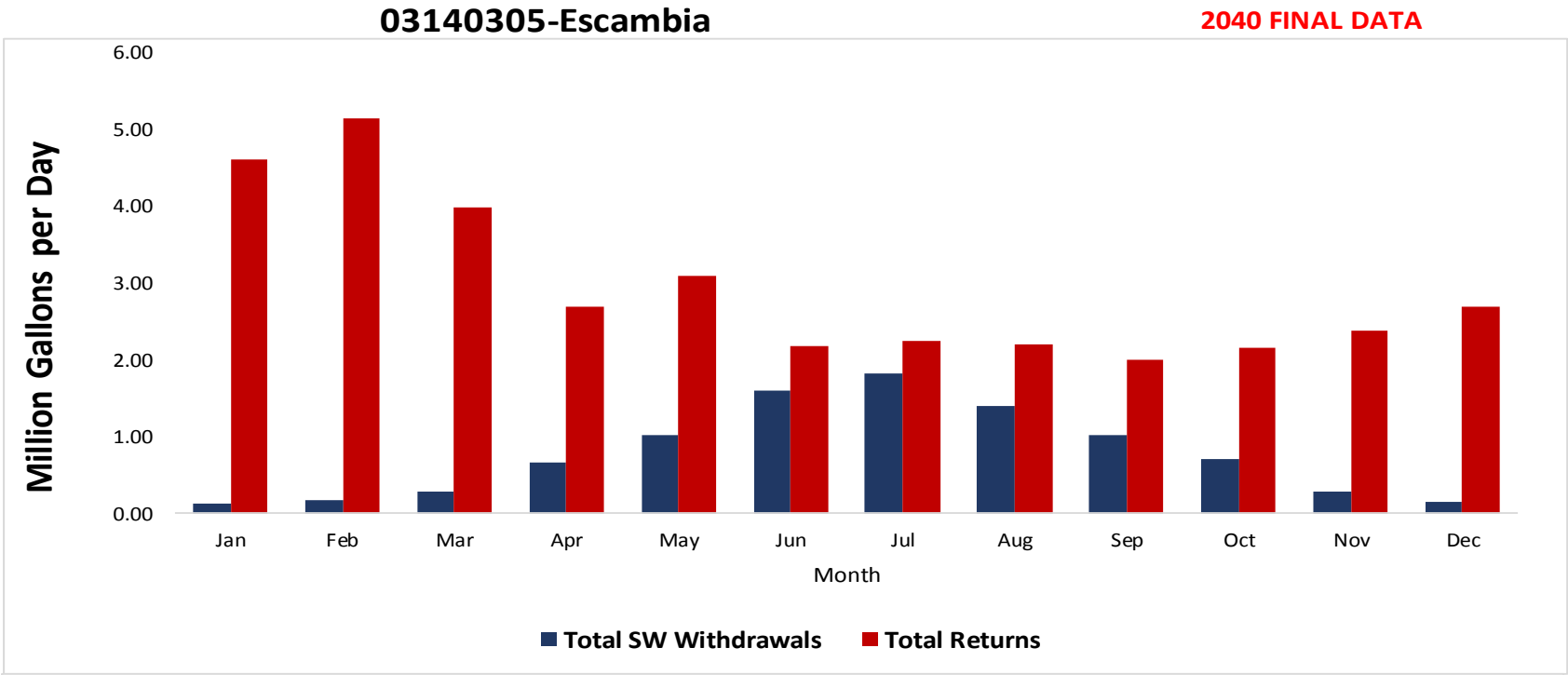
Returns (MGD)

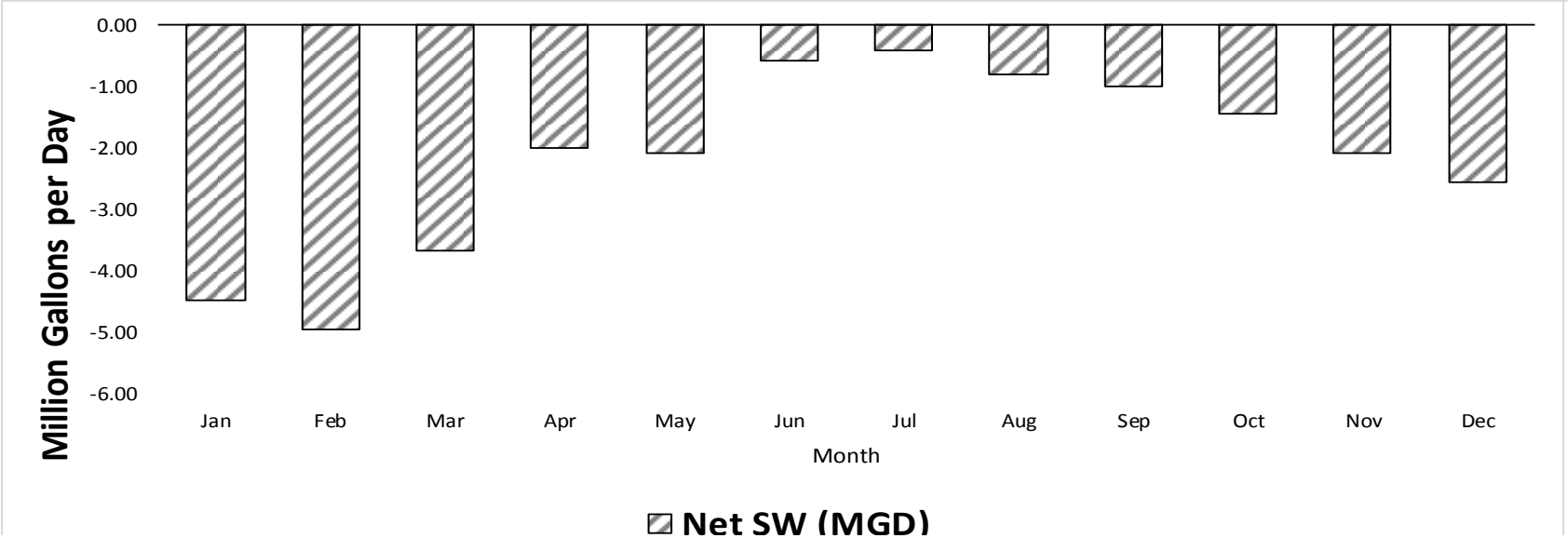
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.41	4.89	3.75	2.45	2.88	1.98	2.04	1.98	1.74	1.90	2.18	2.43	2.72
Industrial/Mining/ Thermoelectric		0.20	0.24	0.23	0.24	0.21	0.20	0.20	0.22	0.28	0.26	0.21	0.27	0.23
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.62**	**5.13**	**3.98**	**2.68**	**3.10**	**2.18**	**2.24**	**2.21**	**2.02**	**2.16**	**2.39**	**2.70**	**2.95**

03140305-Escambia

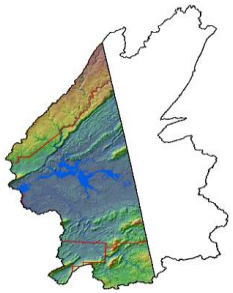
2040 FINAL DATA

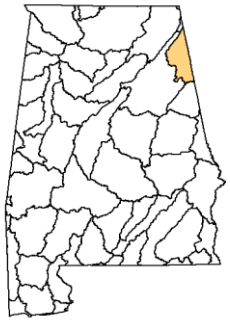
Total SW Withdrawals	SW	0.12	0.17	0.30	0.68	1.02	1.59	1.82	1.40	1.03	0.70	0.29	0.15	0.77
Total GW Withdrawals	SW	2.84	2.66	2.96	4.01	5.94	7.17	7.77	6.14	4.91	4.05	2.83	2.37	4.47
Withdrawal Total		2.97	2.84	3.26	4.69	6.96	8.76	9.59	7.55	5.94	4.76	3.12	2.52	5.25
Total Returns		**4.62**	**5.13**	**3.98**	**2.68**	**3.10**	**2.18**	**2.24**	**2.21**	**2.02**	**2.16**	**2.39**	**2.70**	2.95
Net SW (MGD)	SW	**-4.49**	**-4.96**	**-3.69**	**-2.01**	**-2.07**	**-0.59**	**-0.42**	**-0.81**	**-0.98**	**-1.45**	**-2.10**	**-2.55**	**-2.18**


03140305-Escambia
2040 FINAL DATA
Million Gallons per Day
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150105-Upper Coosa





Area in AL (Square Miles)	850.9
Estimated Population (2040)	48,440
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	2.92	2.56	2.44	2.68	2.95	3.19	3.35	3.06	2.92	2.57	2.42	2.53	2.80
Public Supply	SW	2.27	2.09	2.01	2.27	2.24	2.47	2.57	2.35	2.16	1.88	1.80	1.88	2.17
Industrial/Mining/ Thermoelectric	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining/ Thermoelectric	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Agriculture	GW	0.33	0.34	0.36	0.44	0.52	0.66	0.71	0.60	0.50	0.44	0.36	0.33	0.46
Agriculture	SW	1.51	1.91	2.80	5.67	8.54	13.32	15.04	11.44	8.18	5.75	2.66	1.71	6.55
Total	**SW**	**3.79**	**4.01**	**4.82**	**7.96**	**10.78**	**15.80**	**17.62**	**13.81**	**10.34**	**7.64**	**4.47**	**3.59**	**8.72**
Total	**GW**	**3.28**	**2.93**	**2.83**	**3.15**	**3.50**	**3.88**	**4.08**	**3.69**	**3.45**	**3.04**	**2.81**	**2.89**	**3.29**

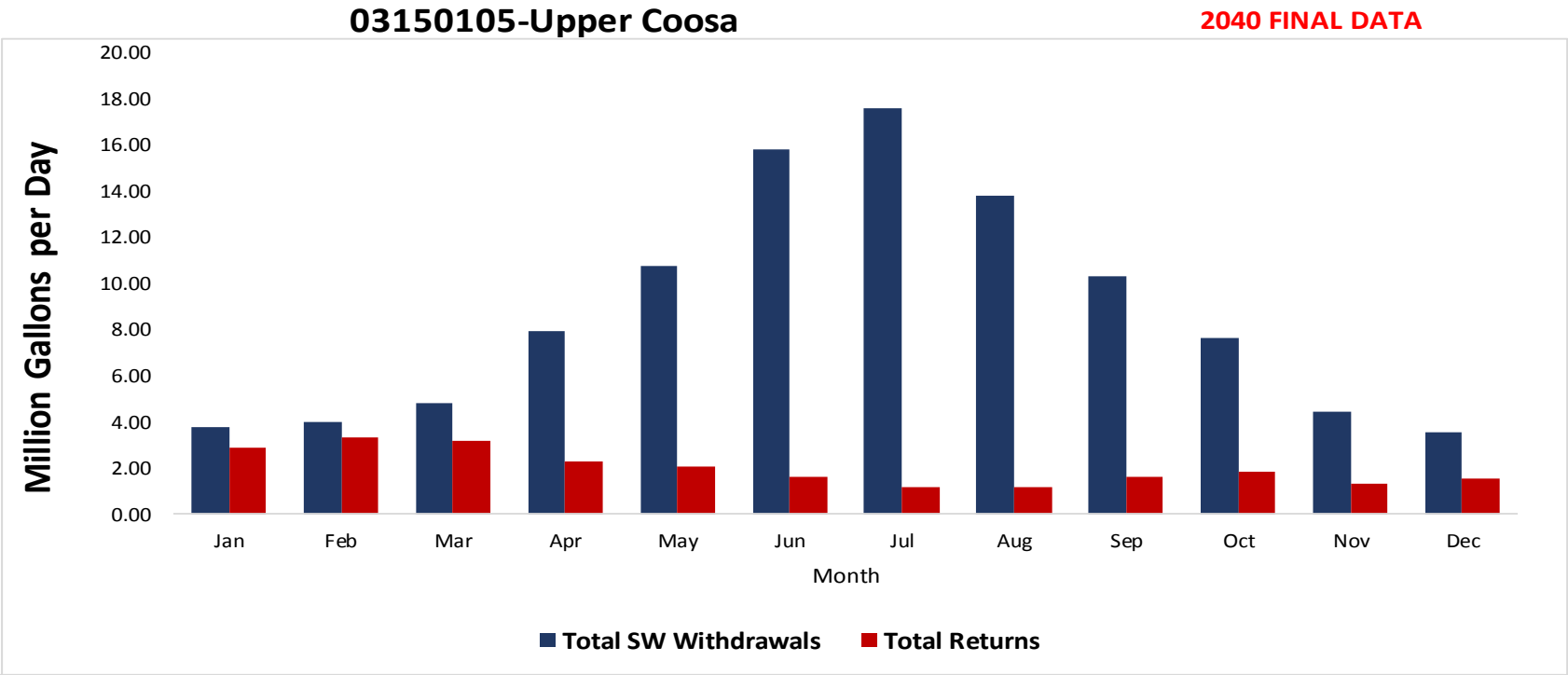
Returns (MGD)

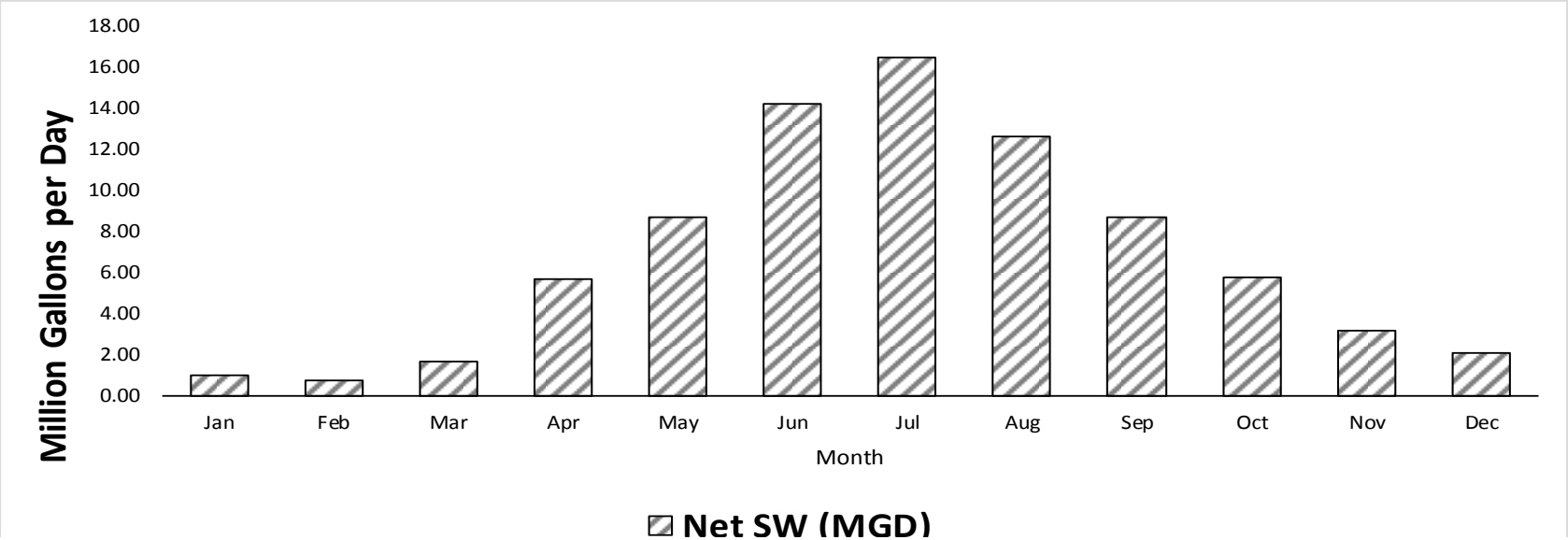
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.86	3.31	3.22	2.30	2.11	1.65	1.19	1.19	1.67	1.88	1.36	1.55	2.02
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**2.86**	**3.31**	**3.22**	**2.30**	**2.11**	**1.65**	**1.19**	**1.19**	**1.67**	**1.88**	**1.36**	**1.55**	**2.02**

03150105-Upper Coosa

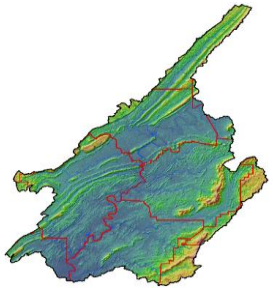
2040 FINAL DATA

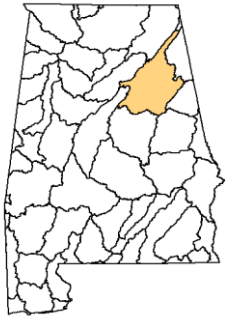
Total SW Withdrawals	SW	3.79	4.01	4.82	7.96	10.78	15.80	17.62	13.81	10.34	7.64	4.47	3.59	8.72
Total GW Withdrawals	SW	3.28	2.93	2.83	3.15	3.50	3.88	4.08	3.69	3.45	3.04	2.81	2.89	3.29
Withdrawal Total		7.07	6.94	7.66	11.10	14.28	19.68	21.70	17.49	13.79	10.68	7.27	6.49	12.01
Total Returns		**2.86**	**3.31**	**3.22**	**2.30**	**2.11**	**1.65**	**1.19**	**1.19**	**1.67**	**1.88**	**1.36**	**1.55**	2.02
Net SW (MGD)	SW	**0.93**	**0.70**	**1.61**	**5.66**	**8.68**	**14.15**	**16.43**	**12.62**	**8.68**	**5.76**	**3.10**	**2.05**	**6.70**


03150105-Upper Coosa
2040 FINAL DATA
Million Gallons per Day
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150106-Middle Coosa





Area in AL (Square Miles)	2,582.0
Estimated Population (2040)	401,354
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	45.51	41.84	40.19	41.44	42.30	44.73	47.13	47.34	46.66	43.11	40.18	41.56	43.50
Public Supply	SW	33.30	30.57	28.77	31.09	31.91	36.54	40.14	40.55	42.13	38.16	32.96	32.18	34.86
Industrial/Mining/ Thermoelectric	GW	4.77	4.56	4.75	4.85	4.63	4.52	4.06	4.37	4.40	4.23	4.15	4.18	4.45
Industrial/Mining/ Thermoelectric	SW	165.36	215.62	198.98	196.18	206.11	250.72	285.47	306.48	193.13	199.47	203.17	222.41	220.26
Agriculture	GW	0.79	0.86	1.00	1.46	1.94	2.76	3.03	2.41	1.84	1.45	0.97	0.82	1.61
Agriculture	SW	4.44	6.22	10.46	23.77	36.29	57.06	64.97	49.63	35.91	24.52	10.10	5.38	27.40
Total	**SW**	**203.09**	**252.41**	**238.22**	**251.04**	**274.30**	**344.32**	**390.58**	**396.65**	**271.17**	**262.15**	**246.22**	**259.97**	**282.51**
Total	**GW**	**51.08**	**47.26**	**45.93**	**47.75**	**48.86**	**52.00**	**54.22**	**54.12**	**52.90**	**48.79**	**45.29**	**46.56**	**49.56**

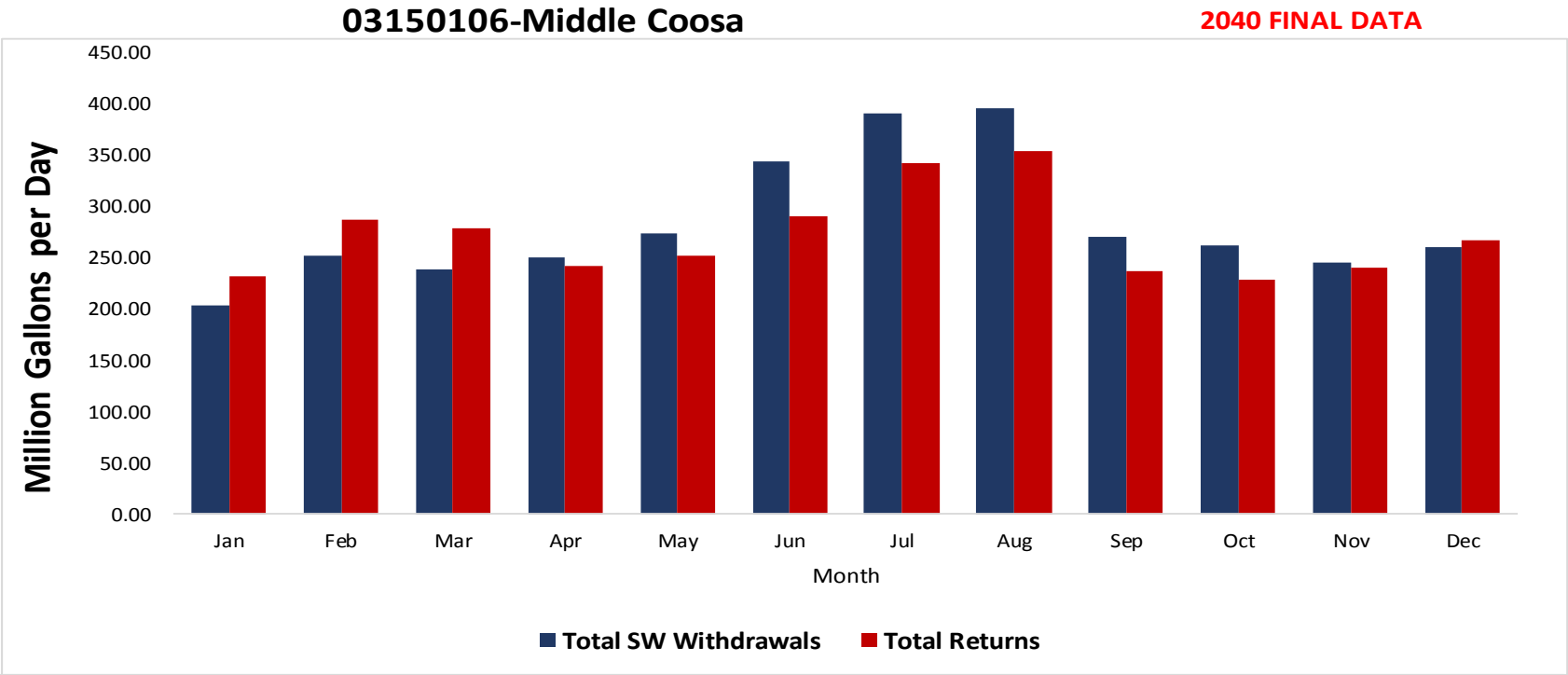
Returns (MGD)

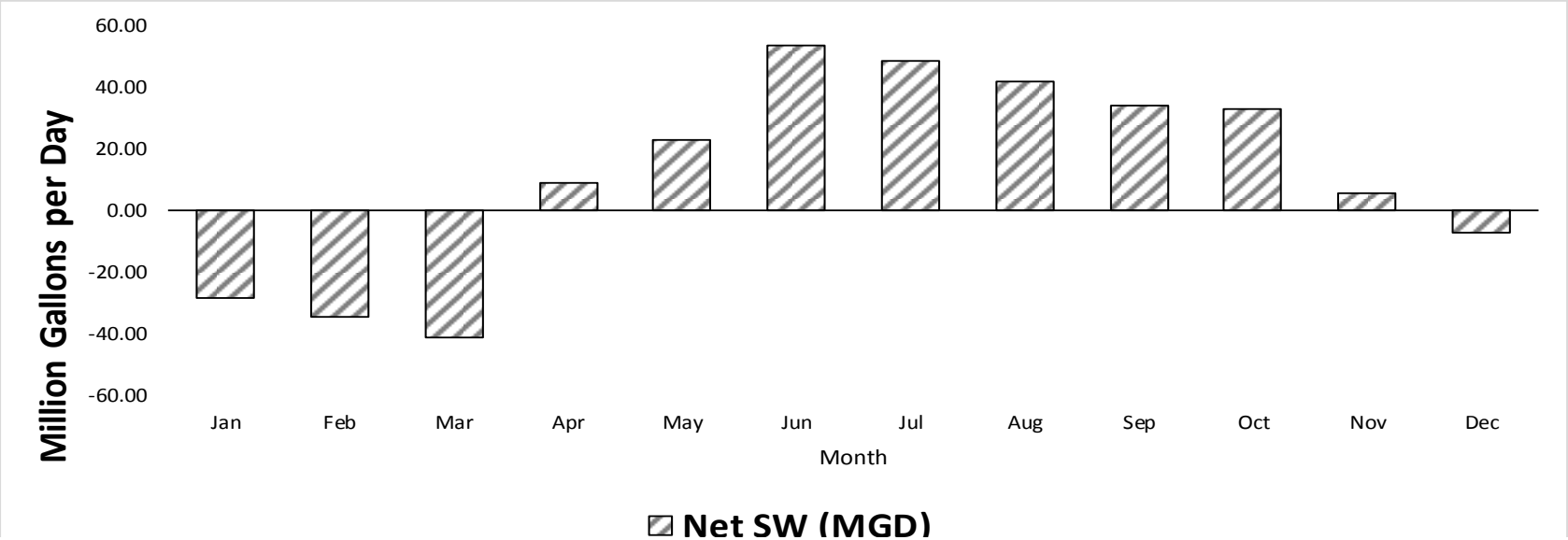
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		61.43	71.33	71.62	47.01	49.47	41.22	34.38	31.93	28.76	28.93	30.75	32.54	44.11
Industrial/Mining/ Thermoelectric		170.27	215.75	207.82	195.21	201.97	249.69	307.95	322.87	208.37	200.37	209.88	234.75	227.08
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**231.71**	**287.08**	**279.44**	**242.22**	**251.44**	**290.91**	**342.33**	**354.80**	**237.13**	**229.29**	**240.63**	**267.29**	**271.19**

03150106-Middle Coosa

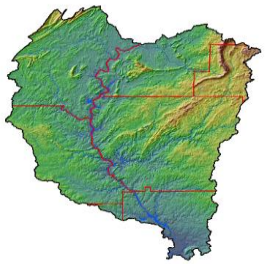
2040 FINAL DATA

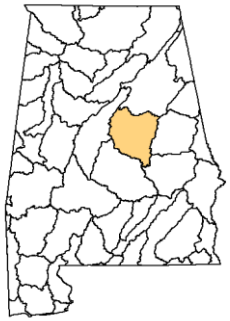
Total SW Withdrawals	SW	203.09	252.41	238.22	251.04	274.30	344.32	390.58	396.65	271.17	262.15	246.22	259.97	282.51
Total GW Withdrawals	SW	51.08	47.26	45.93	47.75	48.86	52.00	54.22	54.12	52.90	48.79	45.29	46.56	49.56
Withdrawal Total		254.17	299.67	284.15	298.78	323.17	396.32	444.80	450.77	324.07	310.94	291.51	306.53	332.07
Total Returns		**231.71**	**287.08**	**279.44**	**242.22**	**251.44**	**290.91**	**342.33**	**354.80**	**237.13**	**229.29**	**240.63**	**267.29**	271.19
Net SW (MGD)	SW	**-28.62**	**-34.67**	**-41.22**	**8.82**	**22.86**	**53.41**	**48.24**	**41.85**	**34.04**	**32.86**	**5.59**	**-7.32**	**11.32**


03150106-Middle Coosa
2040 FINAL DATA
Million Gallons per Day
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
60.00
40.00
20.00
0.00
-20.00
-40.00
-60.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150107-Lower Coosa





Area in AL (Square Miles)	1,961.0
Estimated Population (2040)	189,621
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	9.87	6.90	6.91	6.82	7.45	7.99	8.19	9.80	9.66	9.20	8.89	6.94	8.22
Public Supply	SW	12.97	10.61	10.71	11.55	12.03	13.04	15.29	14.47	14.78	12.87	11.13	11.70	12.59
Industrial/Mining/ Thermoelectric	GW	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Industrial/Mining/ Thermoelectric	SW	1085.99	842.47	875.47	785.32	980.04	1364.43	1353.64	860.85	1017.20	800.46	1062.48	1321.34	1029.14
Agriculture	GW	0.35	0.48	0.74	1.61	2.53	4.07	4.59	3.41	2.33	1.61	0.68	0.42	1.90
Agriculture	SW	0.73	1.03	1.92	4.54	6.63	10.03	11.57	9.20	7.19	4.87	1.99	0.92	5.05
Total	**SW**	**1099.68**	**854.11**	**888.10**	**801.40**	**998.69**	**1387.49**	**1380.49**	**884.52**	**1039.18**	**818.20**	**1075.59**	**1333.95**	**1046.78**
Total	**GW**	**10.77**	**7.93**	**8.20**	**8.98**	**10.52**	**12.61**	**13.32**	**13.76**	**12.54**	**11.35**	**10.11**	**7.90**	**10.67**

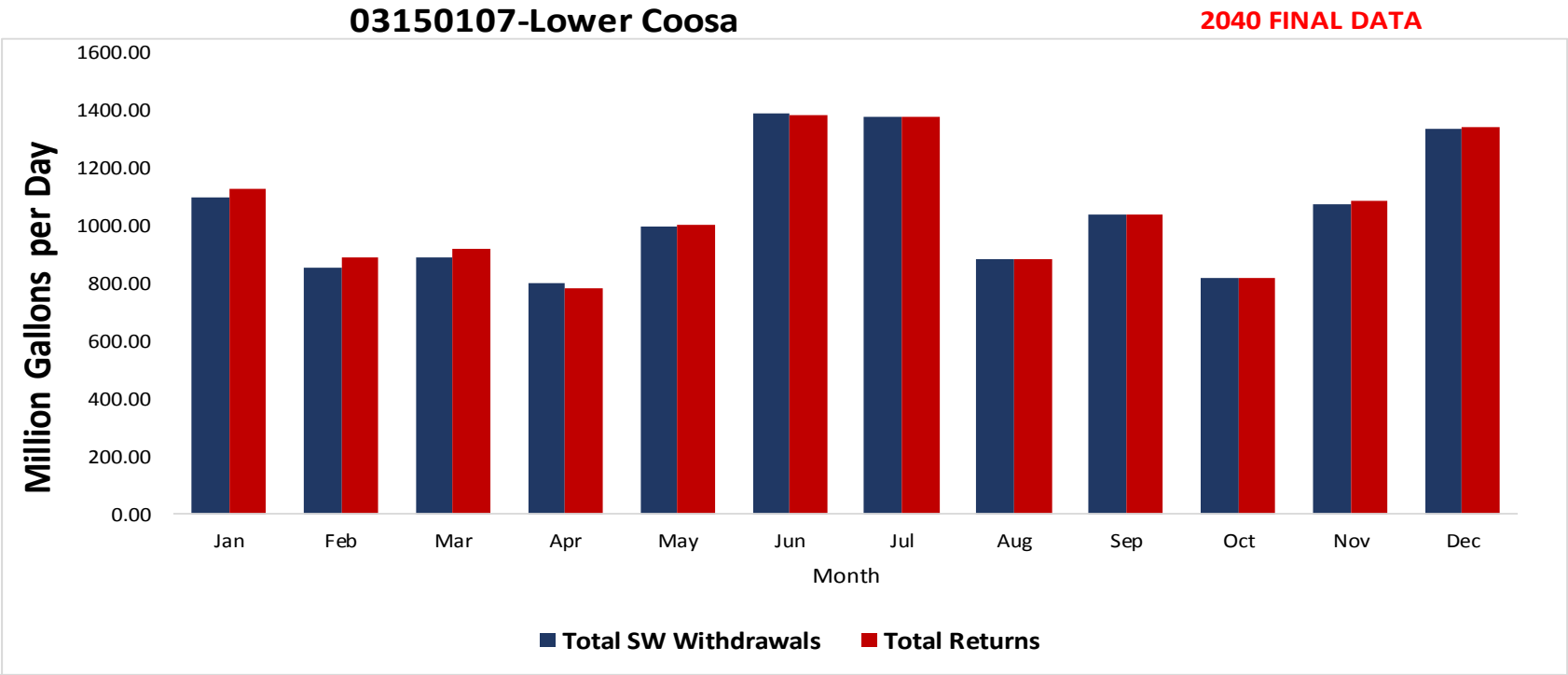
Returns (MGD)

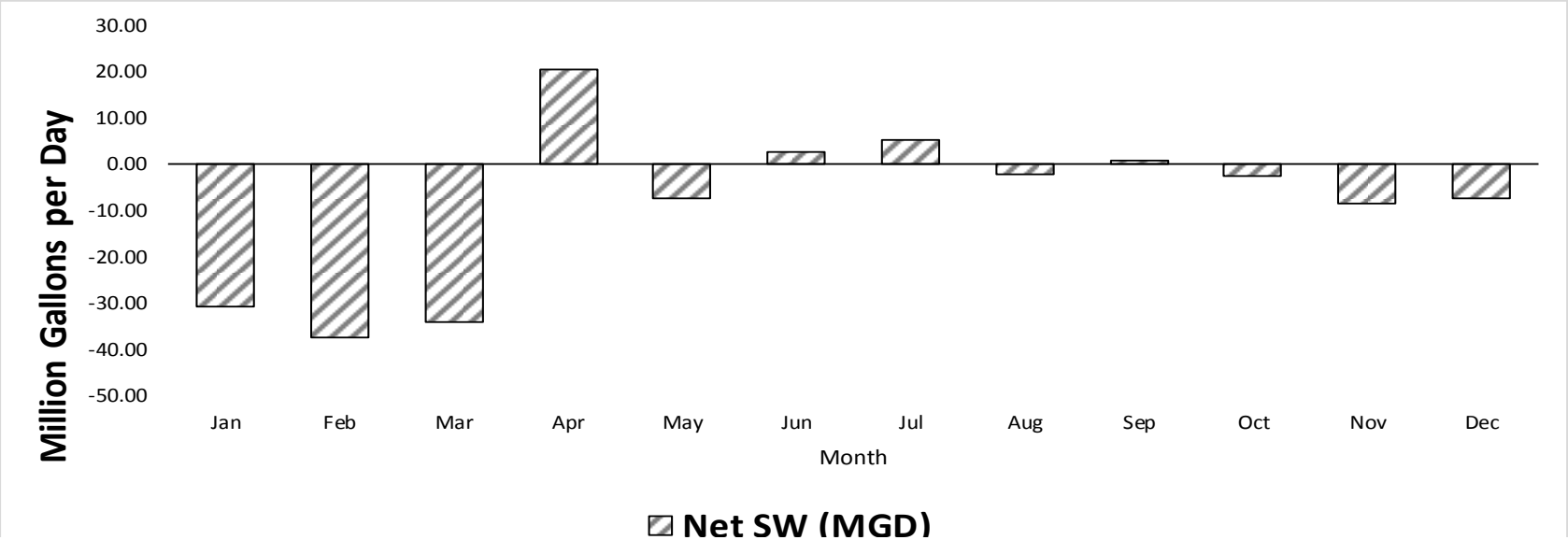
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		19.47	22.66	22.25	13.54	13.41	12.00	10.15	9.81	8.83	8.29	10.09	11.16	13.47
Industrial/Mining/ Thermoelectric		1110.91	868.92	899.96	767.50	992.69	1372.78	1365.14	877.13	1029.74	812.37	1074.12	1330.32	1041.80
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1130.37**	**891.58**	**922.21**	**781.05**	**1006.10**	**1384.78**	**1375.29**	**886.94**	**1038.56**	**820.66**	**1084.21**	**1341.48**	**1055.27**

03150107-Lower Coosa

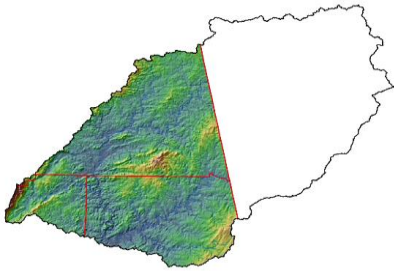
2040 FINAL DATA

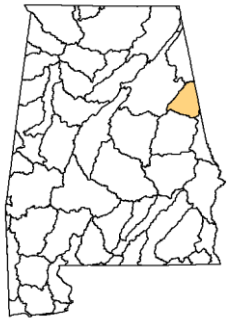
Total SW Withdrawals	SW	1099.68	854.11	888.10	801.40	998.69	1387.49	1380.49	884.52	1039.18	818.20	1075.59	1333.95	1046.78
Total GW Withdrawals	SW	10.77	7.93	8.20	8.98	10.52	12.61	13.32	13.76	12.54	11.35	10.11	7.90	10.67
Withdrawal Total		1110.45	862.04	896.30	810.38	1009.22	1400.10	1393.81	898.28	1051.71	829.55	1085.70	1341.86	1057.45
Total Returns		**1130.37**	**891.58**	**922.21**	**781.05**	**1006.10**	**1384.78**	**1375.29**	**886.94**	**1038.56**	**820.66**	**1084.21**	**1341.48**	1055.27
Net SW (MGD)	SW	**-30.69**	**-37.47**	**-34.11**	**20.35**	**-7.40**	**2.72**	**5.20**	**-2.42**	**0.61**	**-2.46**	**-8.62**	**-7.52**	**-8.48**


03150107-Lower Coosa
2040 FINAL DATA
Million Gallons per Day
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150108-Upper Tallapoosa





Area in AL (Square Miles)	743.5
Estimated Population (2040)	22,642
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	1.12	0.97	0.93	0.97	1.08	1.12	1.10	1.18	1.14	1.09	1.05	1.05	1.07
Industrial/Mining/ Thermoelectric	GW	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Industrial/Mining/ Thermoelectric	SW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Agriculture	GW	0.21	0.24	0.30	0.50	0.71	1.07	1.19	0.92	0.67	0.50	0.28	0.22	0.57
Agriculture	SW	0.23	0.25	0.29	0.42	0.56	0.80	0.88	0.70	0.53	0.42	0.28	0.24	0.47
Total	**SW**	**1.36**	**1.23**	**1.23**	**1.41**	**1.66**	**1.94**	**2.00**	**1.90**	**1.68**	**1.52**	**1.34**	**1.30**	**1.55**
Total	**GW**	**0.56**	**0.59**	**0.65**	**0.86**	**1.07**	**1.43**	**1.55**	**1.27**	**1.02**	**0.85**	**0.64**	**0.58**	**0.92**

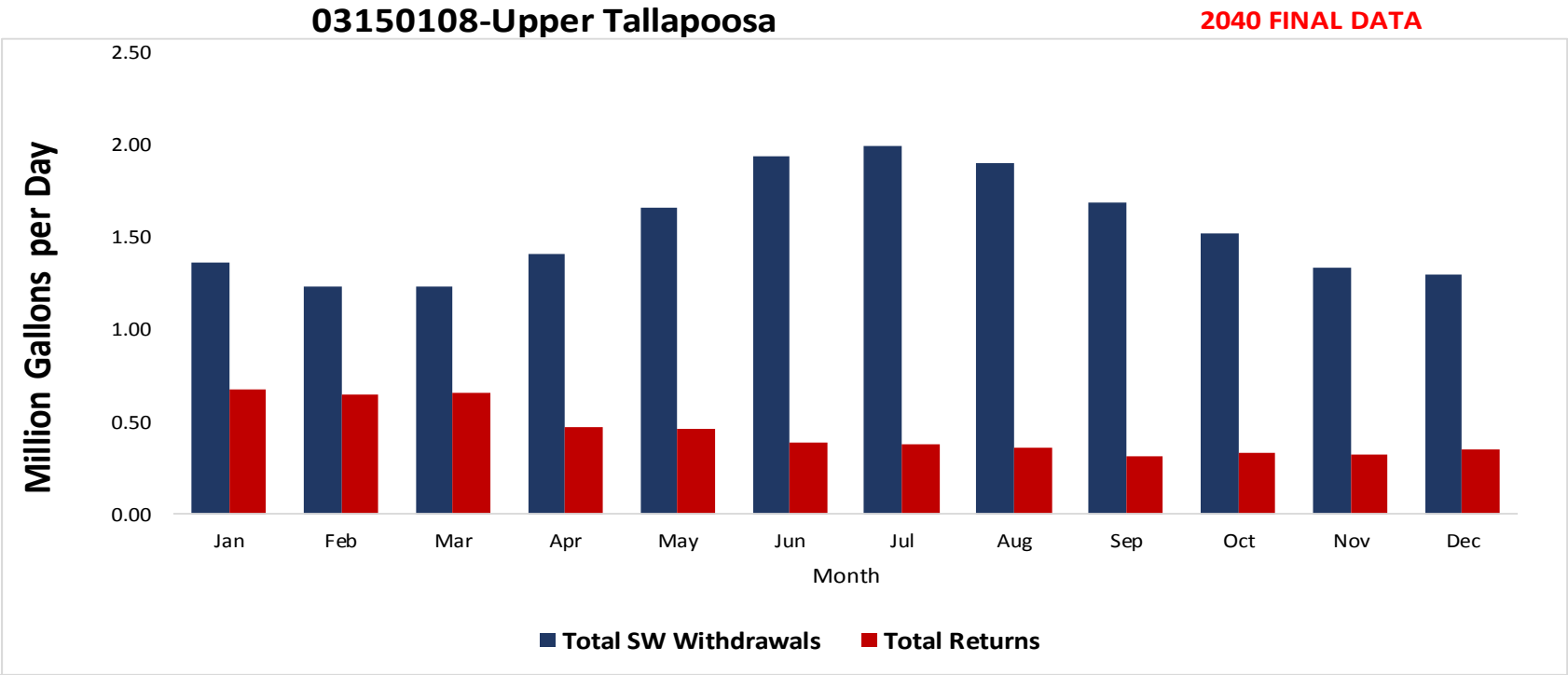
Returns (MGD)

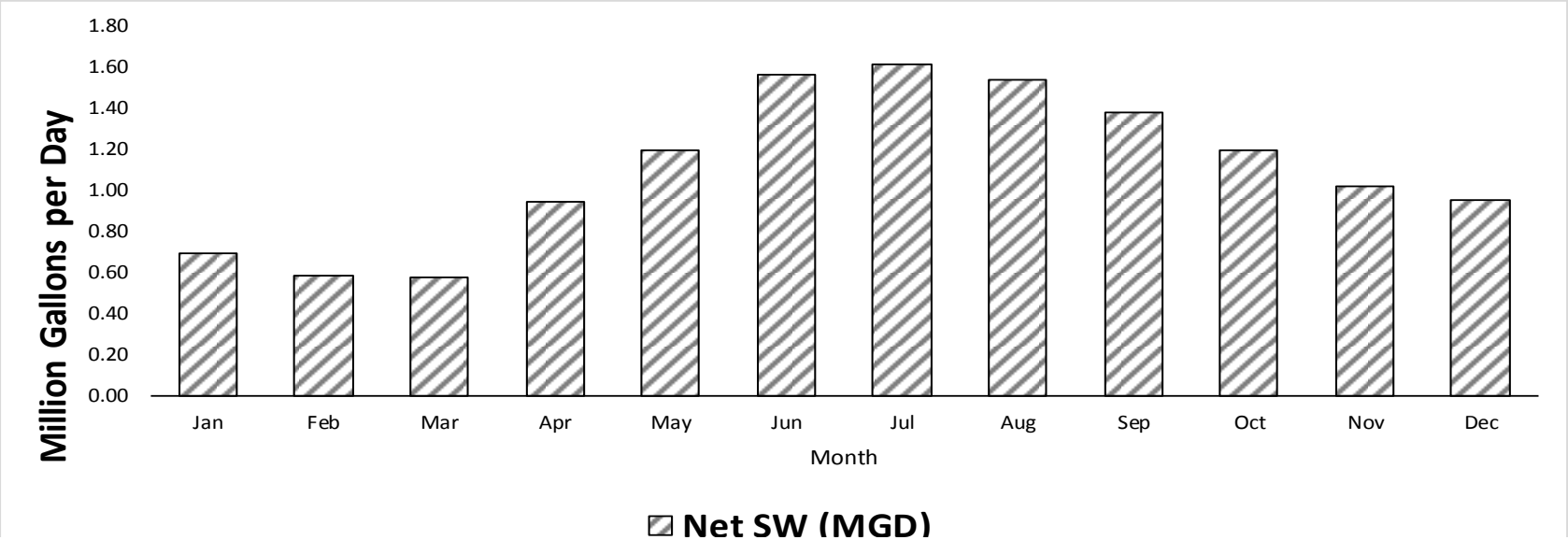
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.68	0.65	0.66	0.47	0.47	0.39	0.38	0.37	0.31	0.33	0.32	0.35	0.45
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.68**	**0.65**	**0.66**	**0.47**	**0.47**	**0.39**	**0.38**	**0.37**	**0.31**	**0.33**	**0.32**	**0.35**	**0.45**

03150108-Upper Tallapoosa

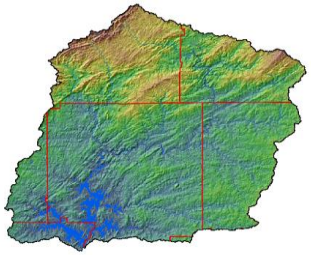
2040 FINAL DATA

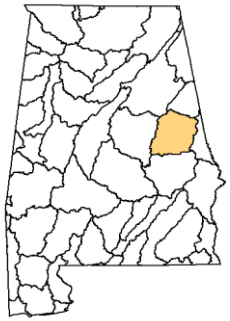
Total SW Withdrawals	SW	1.36	1.23	1.23	1.41	1.66	1.94	2.00	1.90	1.68	1.52	1.34	1.30	1.55
Total GW Withdrawals	SW	0.56	0.59	0.65	0.86	1.07	1.43	1.55	1.27	1.02	0.85	0.64	0.58	0.92
Withdrawal Total		1.92	1.82	1.89	2.26	2.73	3.37	3.54	3.17	2.71	2.38	1.98	1.88	2.47
Total Returns		**0.68**	**0.65**	**0.66**	**0.47**	**0.47**	**0.39**	**0.38**	**0.37**	**0.31**	**0.33**	**0.32**	**0.35**	0.45
Net SW (MGD)	SW	**0.69**	**0.58**	**0.57**	**0.94**	**1.19**	**1.56**	**1.61**	**1.53**	**1.37**	**1.19**	**1.01**	**0.95**	**1.10**


03150108-Upper Tallapoosa
2040 FINAL DATA
Million Gallons per Day
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150109-Middle Tallapoosa





Area in AL (Square Miles)	1,589.0
Estimated Population (2040)	59,677
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	16.88	15.10	13.55	15.35	15.34	18.15	20.26	19.76	20.08	16.61	14.05	17.35	16.87
Industrial/Mining/ Thermoelectric	GW	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Industrial/Mining/ Thermoelectric	SW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Agriculture	GW	0.20	0.20	0.21	0.22	0.23	0.25	0.26	0.24	0.23	0.22	0.21	0.20	0.22
Agriculture	SW	1.03	1.06	1.21	1.59	1.75	1.99	2.20	2.10	2.08	1.71	1.27	1.06	1.59
Total	**SW**	**17.94**	**16.19**	**14.79**	**16.97**	**17.12**	**20.16**	**22.49**	**21.90**	**22.19**	**18.35**	**15.35**	**18.44**	**18.49**
Total	**GW**	**0.26**	**0.26**	**0.27**	**0.28**	**0.29**	**0.31**	**0.32**	**0.30**	**0.29**	**0.28**	**0.27**	**0.26**	**0.28**

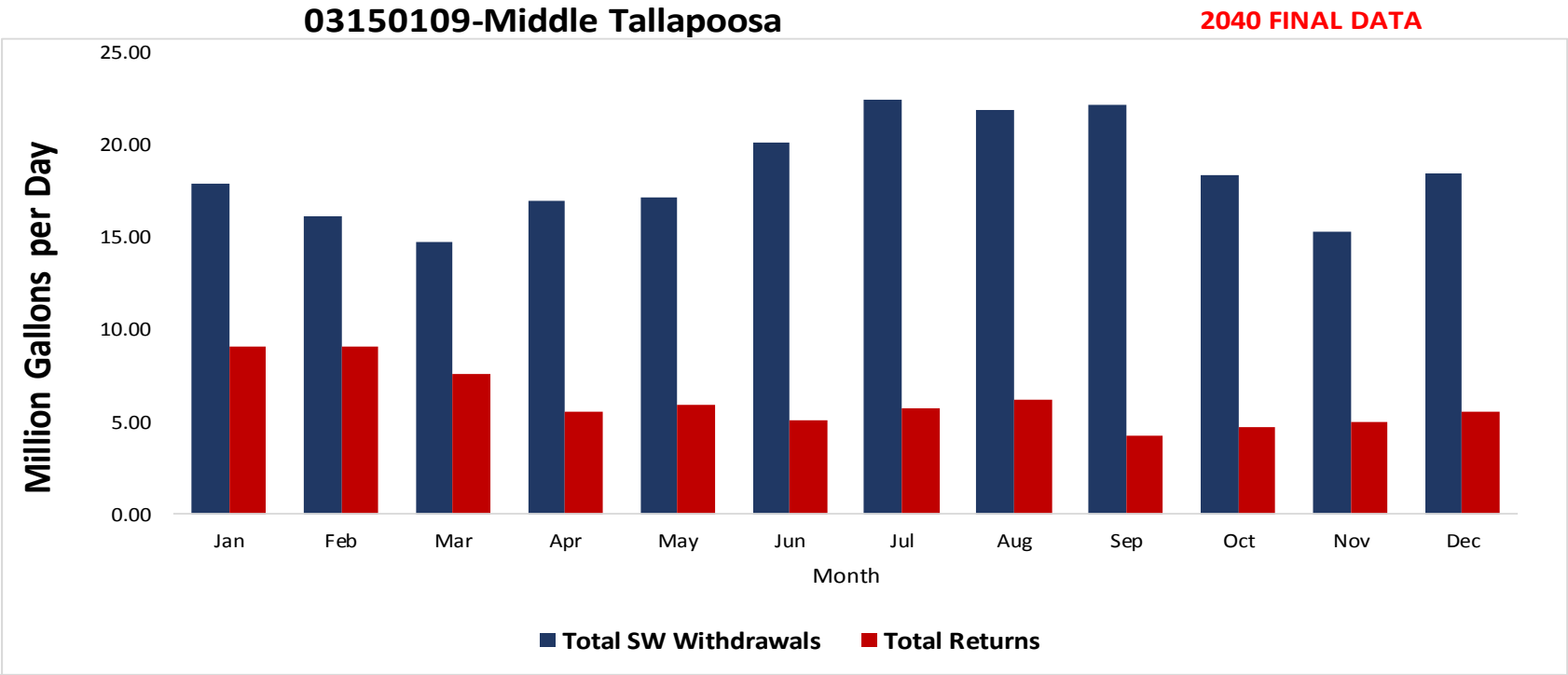
Returns (MGD)

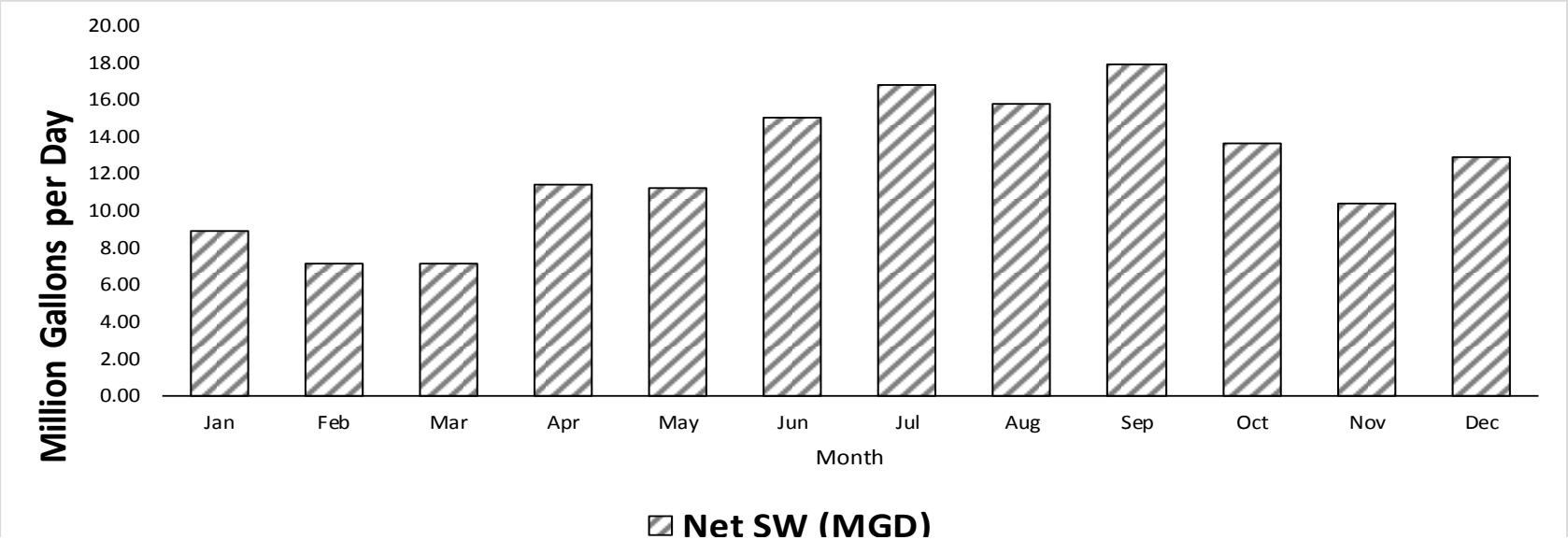
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		8.62	8.74	7.46	5.22	5.74	4.75	5.41	5.95	4.15	4.58	4.98	5.45	5.92
Industrial/Mining/ Thermoelectric		0.44	0.35	0.19	0.35	0.23	0.39	0.30	0.23	0.16	0.18	0.03	0.14	0.25
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**9.06**	**9.09**	**7.65**	**5.57**	**5.97**	**5.14**	**5.71**	**6.18**	**4.31**	**4.76**	**5.01**	**5.59**	**6.17**

03150109-Middle Tallapoosa

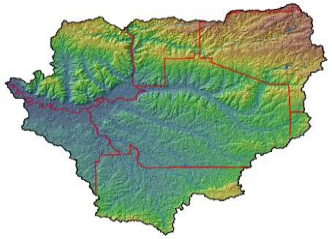
2040 FINAL DATA

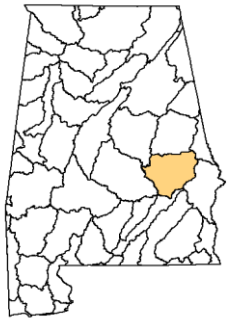
Total SW Withdrawals	SW	17.94	16.19	14.79	16.97	17.12	20.16	22.49	21.90	22.19	18.35	15.35	18.44	18.49
Total GW Withdrawals	SW	0.26	0.26	0.27	0.28	0.29	0.31	0.32	0.30	0.29	0.28	0.27	0.26	0.28
Withdrawal Total		18.20	16.45	15.06	17.25	17.41	20.47	22.81	22.20	22.47	18.62	15.62	18.70	18.77
Total Returns		**9.06**	**9.09**	**7.65**	**5.57**	**5.97**	**5.14**	**5.71**	**6.18**	**4.31**	**4.76**	**5.01**	**5.59**	6.17
Net SW (MGD)	SW	**8.88**	**7.10**	**7.14**	**11.39**	**11.15**	**15.03**	**16.78**	**15.71**	**17.88**	**13.59**	**10.34**	**12.86**	**12.32**


03150109-Middle Tallapoosa
2040 FINAL DATA
Million Gallons per Day
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150110-Lower Tallapoosa





Area in AL (Square Miles)	1,702.0
Estimated Population (2040)	233,810
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

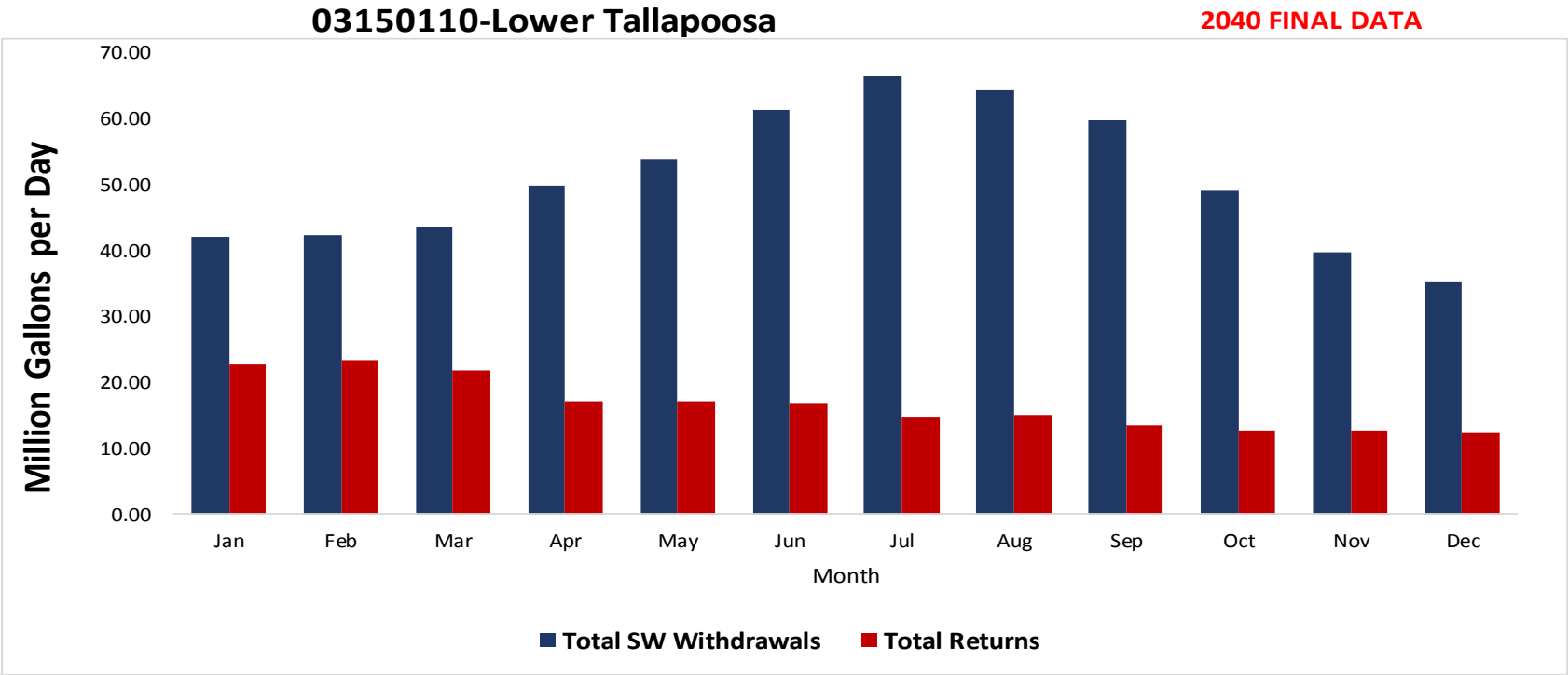
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	3.86	2.72	3.71	3.17	2.99	3.18	4.44	4.30	4.24	3.64	3.37	3.34	3.58
Public Supply	SW	40.11	39.72	39.28	40.22	39.42	39.30	41.35	44.85	44.99	39.06	35.53	32.98	39.73
Industrial/Mining/ Thermoelectric	GW	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Industrial/Mining/ Thermoelectric	SW	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Agriculture	GW	0.84	1.23	2.02	4.65	7.43	12.10	13.68	10.11	6.82	4.64	1.83	1.02	5.53
Agriculture	SW	1.58	2.25	3.99	9.28	13.99	21.76	24.89	19.26	14.31	9.72	3.94	1.96	10.58
Total	**SW**	**42.07**	**42.35**	**43.65**	**49.88**	**53.79**	**61.44**	**66.62**	**64.49**	**59.68**	**49.16**	**39.85**	**35.32**	**50.69**
Total	**GW**	**5.49**	**4.74**	**6.52**	**8.61**	**11.21**	**16.07**	**18.91**	**15.20**	**11.85**	**9.07**	**5.99**	**5.15**	**9.90**

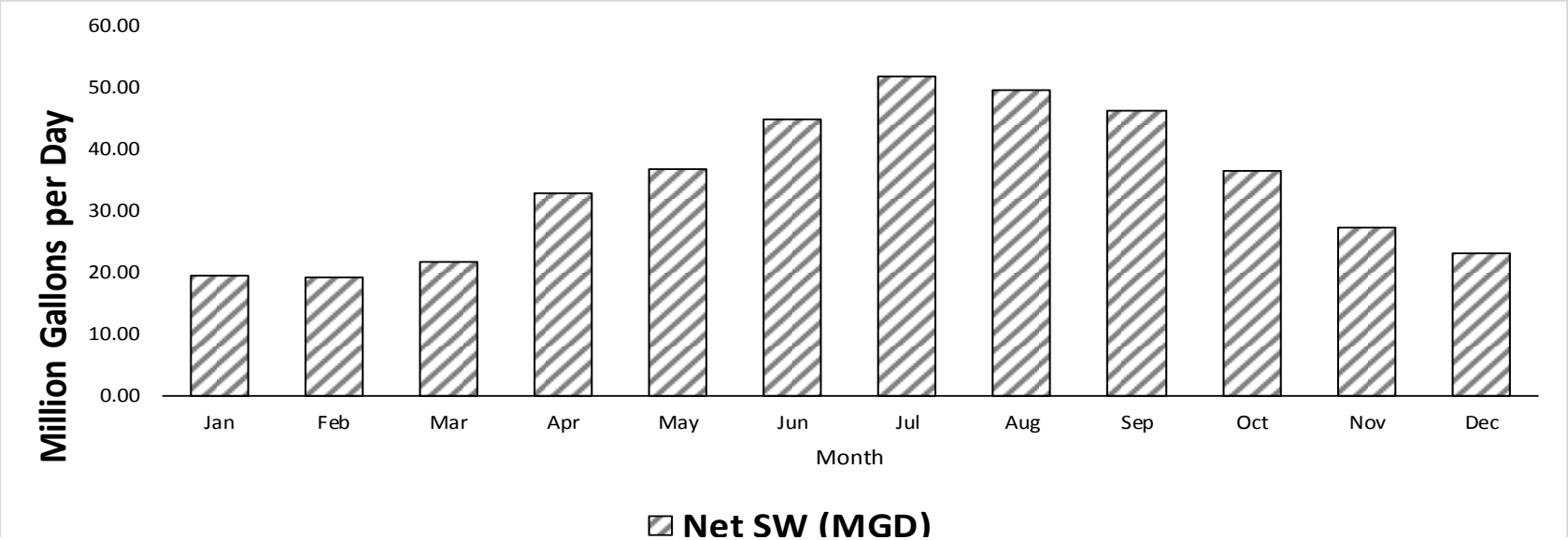
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		22.81	23.32	21.94	17.26	17.26	16.77	14.88	15.01	13.54	12.70	12.76	12.44	16.72
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**22.81**	**23.32**	**21.94**	**17.26**	**17.26**	**16.77**	**14.88**	**15.01**	**13.54**	**12.70**	**12.76**	**12.44**	**16.72**

03150110-Lower Tallapoosa

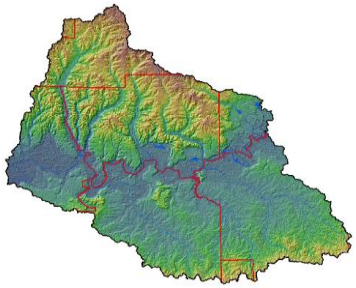
2040 FINAL DATA

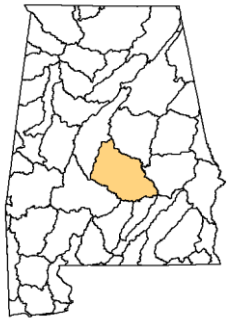
Total SW Withdrawals	SW	42.07	42.35	43.65	49.88	53.79	61.44	66.62	64.49	59.68	49.16	39.85	35.32	50.69
Total GW Withdrawals	SW	5.49	4.74	6.52	8.61	11.21	16.07	18.91	15.20	11.85	9.07	5.99	5.15	9.90
Withdrawal Total		47.56	47.09	50.16	58.49	65.00	77.50	85.53	79.68	71.53	58.23	45.84	40.47	60.59
Total Returns		**22.81**	**23.32**	**21.94**	**17.26**	**17.26**	**16.77**	**14.88**	**15.01**	**13.54**	**12.70**	**12.76**	**12.44**	16.72
Net SW (MGD)	SW	**19.26**	**19.03**	**21.70**	**32.62**	**36.53**	**44.67**	**51.74**	**49.48**	**46.14**	**36.46**	**27.09**	**22.88**	**33.97**


03150110-Lower Tallapoosa
2040 FINAL DATA
Million Gallons per Day
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150201-Upper Alabama





Area in AL (Square Miles)	2,389.0
Estimated Population (2040)	365,550
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

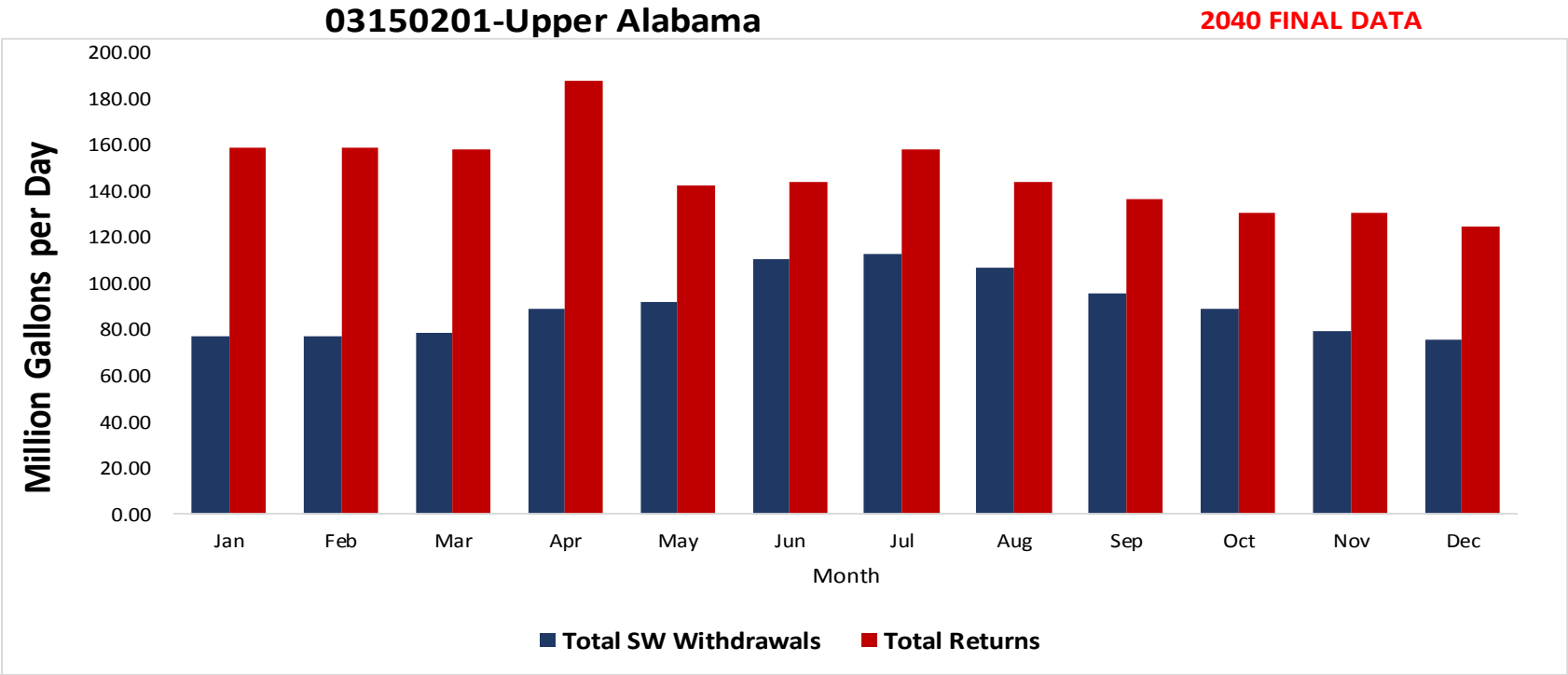
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	33.76	27.32	25.77	32.83	38.59	41.36	39.95	40.72	39.81	38.14	32.19	31.76	35.18
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	4.03	3.86	3.78	3.79	4.06	3.95	3.97	4.02	4.22	4.14	4.20	4.34	4.03
Industrial/Mining/ Thermoelectric	SW	74.33	73.33	73.21	77.07	74.87	84.12	82.44	83.46	77.91	76.20	73.83	72.30	76.92
Agriculture	GW	1.62	2.33	3.73	8.43	13.40	21.75	24.58	18.19	12.31	8.41	3.40	1.95	10.01
Agriculture	SW	3.00	3.78	5.82	12.02	17.47	26.44	30.10	23.62	17.94	12.56	5.79	3.45	13.50
Total	**SW**	**77.33**	**77.11**	**79.03**	**89.09**	**92.34**	**110.56**	**112.54**	**107.08**	**95.85**	**88.75**	**79.62**	**75.75**	**90.42**
Total	**GW**	**39.40**	**33.51**	**33.28**	**45.05**	**56.06**	**67.06**	**68.50**	**62.93**	**56.33**	**50.69**	**39.78**	**38.05**	**49.22**

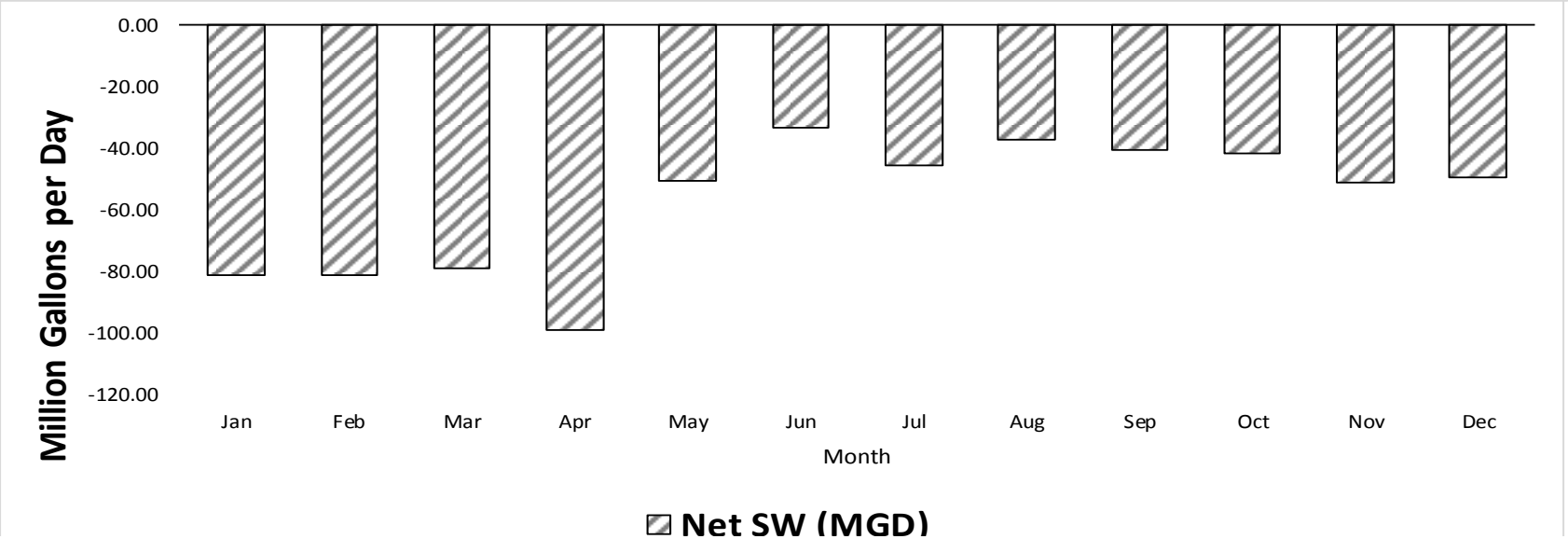
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		58.58	57.15	52.24	42.17	44.79	42.19	41.39	41.29	38.89	38.11	41.26	40.42	44.87
Industrial/Mining/ Thermoelectric		100.03	101.35	105.99	145.76	98.02	101.78	116.65	102.98	97.60	92.25	89.47	84.64	103.04
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**158.61**	**158.49**	**158.22**	**187.93**	**142.81**	**143.97**	**158.04**	**144.27**	**136.49**	**130.36**	**130.74**	**125.06**	**147.92**

03150201-Upper Alabama

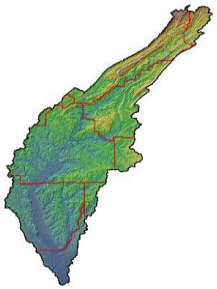
2040 FINAL DATA

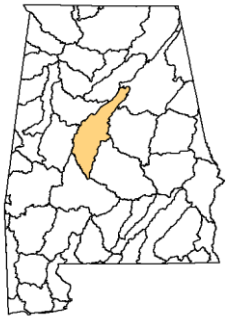
Total SW Withdrawals	SW	77.33	77.11	79.03	89.09	92.34	110.56	112.54	107.08	95.85	88.75	79.62	75.75	90.42
Total GW Withdrawals	SW	39.40	33.51	33.28	45.05	56.06	67.06	68.50	62.93	56.33	50.69	39.78	38.05	49.22
Withdrawal Total		116.73	110.61	112.31	134.13	148.39	177.63	181.03	170.02	152.18	139.45	119.40	113.80	139.64
Total Returns		**158.61**	**158.49**	**158.22**	**187.93**	**142.81**	**143.97**	**158.04**	**144.27**	**136.49**	**130.36**	**130.74**	**125.06**	147.92
Net SW (MGD)	SW	**-81.28**	**-81.39**	**-79.19**	**-98.84**	**-50.47**	**-33.41**	**-45.51**	**-37.19**	**-40.64**	**-41.60**	**-51.12**	**-49.31**	**-57.50**


03150201-Upper Alabama
2040 FINAL DATA
Million Gallons per Day
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-20.00
-40.00
-60.00
-80.00
-100.00
-120.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150202-Cahaba





Area in AL (Square Miles)	1,822.0
Estimated Population (2040)	536,243
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

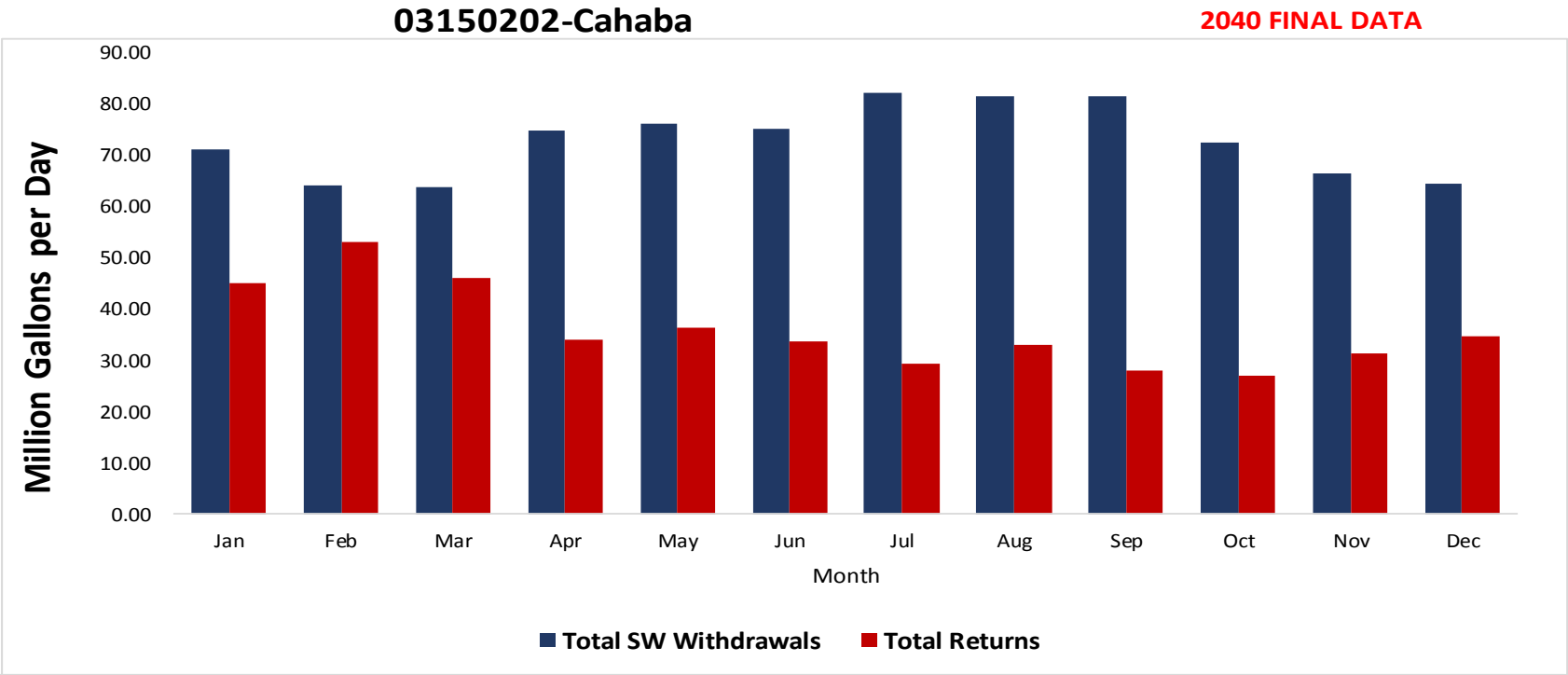
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	33.36	30.06	31.24	32.75	34.21	35.68	37.50	37.79	37.46	35.67	31.45	30.98	34.01
Public Supply	SW	68.17	61.09	59.21	66.81	66.69	63.56	68.56	68.84	69.24	63.38	61.46	61.24	64.85
Industrial/Mining/ Thermoelectric	GW	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
Industrial/Mining/ Thermoelectric	SW	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Agriculture	GW	0.15	0.16	0.19	0.29	0.40	0.58	0.64	0.50	0.38	0.29	0.19	0.16	0.33
Agriculture	SW	2.56	2.80	4.18	7.66	9.20	11.45	13.41	12.42	12.06	8.73	4.73	2.83	7.67
Total	**SW**	**70.99**	**64.14**	**63.65**	**74.72**	**76.14**	**75.27**	**82.23**	**81.51**	**81.56**	**72.36**	**66.45**	**64.33**	**72.78**
Total	**GW**	**34.84**	**31.56**	**32.77**	**34.38**	**35.94**	**37.59**	**39.47**	**39.63**	**39.17**	**37.30**	**32.97**	**32.47**	**35.67**

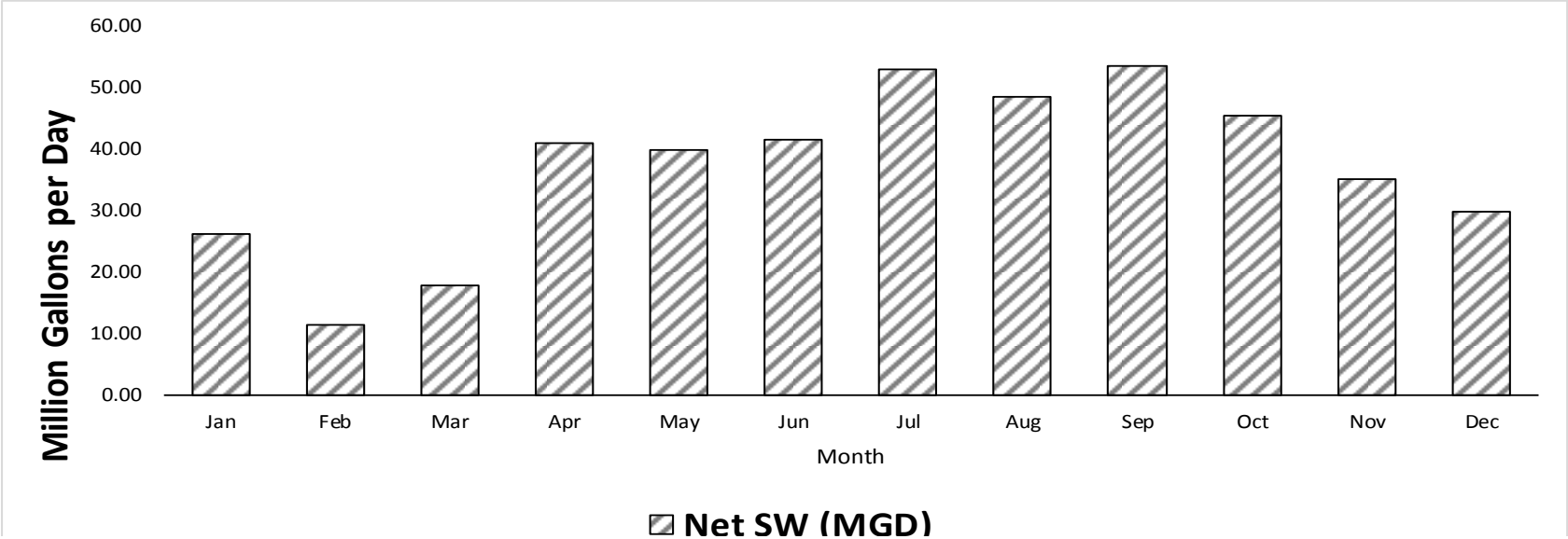
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		44.76	52.07	44.18	34.01	34.03	33.75	28.28	30.86	28.15	26.96	30.43	32.84	35.03
Industrial/Mining/ Thermoelectric		0.24	0.92	1.83	0.02	2.33	0.03	1.07	2.33	0.03	0.18	1.12	1.94	1.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**44.99**	**52.98**	**46.01**	**34.03**	**36.36**	**33.78**	**29.35**	**33.20**	**28.18**	**27.14**	**31.55**	**34.78**	**36.03**

03150202-Cahaba

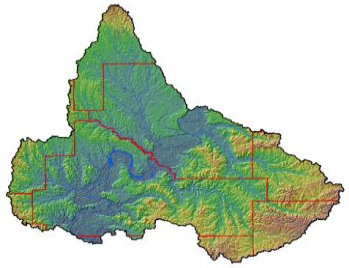
2040 FINAL DATA

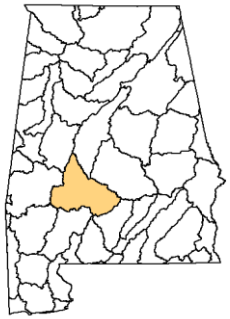
Total SW Withdrawals	SW	70.99	64.14	63.65	74.72	76.14	75.27	82.23	81.51	81.56	72.36	66.45	64.33	72.78
Total GW Withdrawals	SW	34.84	31.56	32.77	34.38	35.94	37.59	39.47	39.63	39.17	37.30	32.97	32.47	35.67
Withdrawal Total		105.84	95.70	96.42	109.10	112.08	112.86	121.70	121.14	120.73	109.66	99.42	96.80	108.45
Total Returns		**44.99**	**52.98**	**46.01**	**34.03**	**36.36**	**33.78**	**29.35**	**33.20**	**28.18**	**27.14**	**31.55**	**34.78**	36.03
Net SW (MGD)	SW	**26.00**	**11.16**	**17.64**	**40.69**	**39.79**	**41.49**	**52.88**	**48.32**	**53.38**	**45.23**	**34.89**	**29.55**	**36.75**


03150202-Cahaba
2040 FINAL DATA
Million Gallons per Day
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150203-Middle Alabama





Area in AL (Square Miles)	2,228.0
Estimated Population (2040)	23,782
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.44	3.14	1.88	2.13	1.94	2.12	2.08	2.30	3.52	2.18	2.05	2.11	2.41
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Industrial/Mining/ Thermoelectric	SW	13.70	14.30	14.16	13.54	13.78	13.92	13.89	14.50	13.74	11.60	12.60	13.29	13.58
Agriculture	GW	0.42	0.52	0.74	1.46	2.23	3.52	3.95	2.97	2.06	1.46	0.69	0.47	1.71
Agriculture	SW	13.54	14.20	15.51	19.88	24.49	32.24	34.86	28.95	23.50	19.86	15.20	13.85	21.34
Total	**SW**	**27.24**	**28.49**	**29.67**	**33.42**	**38.27**	**46.15**	**48.75**	**43.45**	**37.23**	**31.46**	**27.80**	**27.14**	**34.92**
Total	**GW**	**4.15**	**3.96**	**2.92**	**3.89**	**4.47**	**5.94**	**6.33**	**5.56**	**5.88**	**3.93**	**3.03**	**2.87**	**4.41**

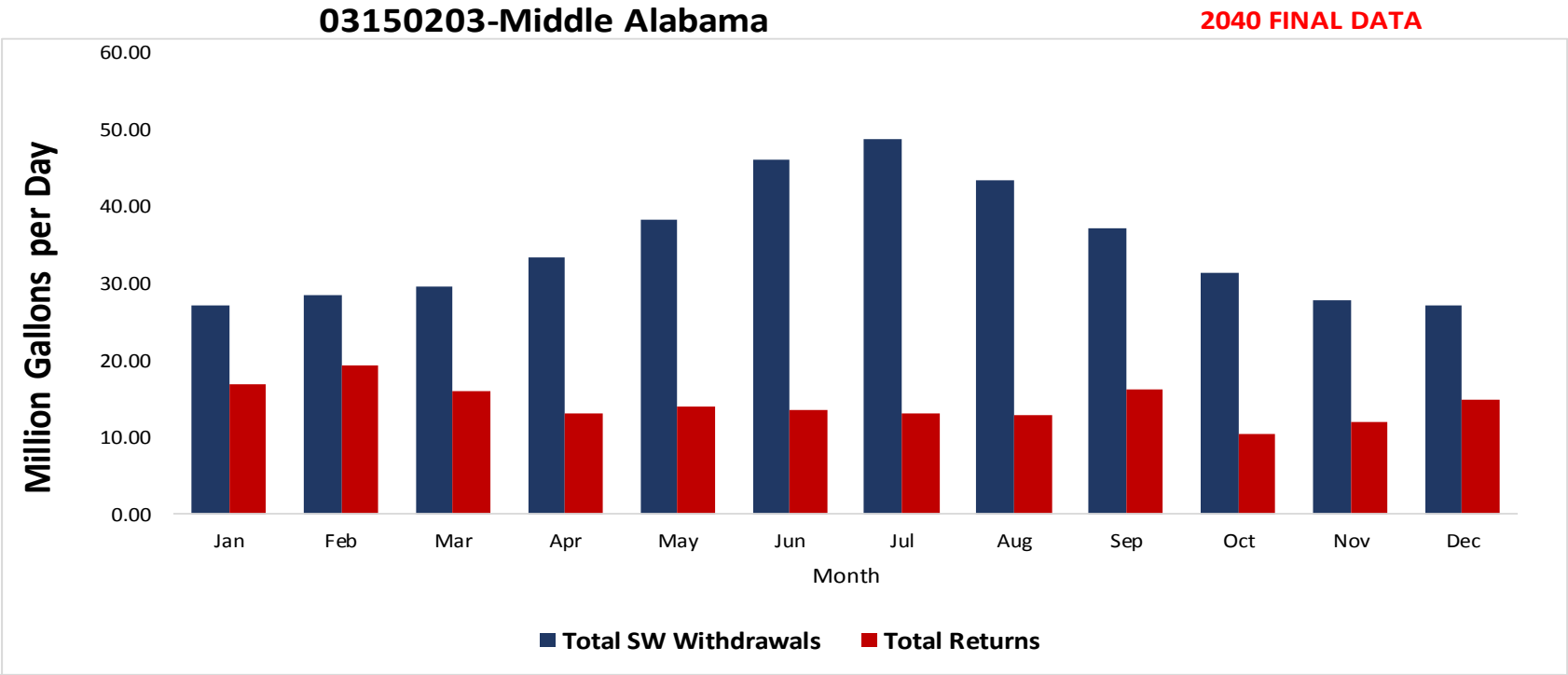
Returns (MGD)

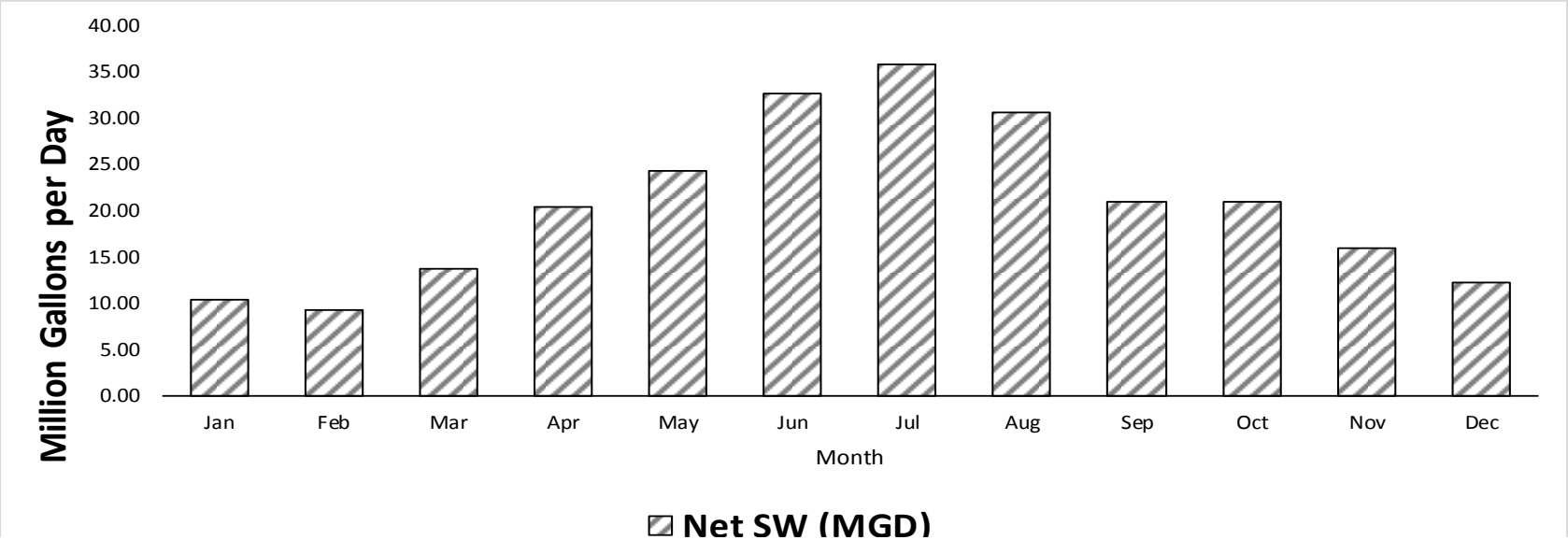
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.52	0.52	0.47	0.25	0.33	0.37	0.33	0.44	0.41	0.25	0.33	0.28	0.37
Industrial/Mining/ Thermoelectric		16.37	18.74	15.59	12.89	13.71	13.16	12.74	12.52	15.85	10.31	11.66	14.75	14.02
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**16.89**	**19.26**	**16.06**	**13.15**	**14.04**	**13.53**	**13.07**	**12.95**	**16.26**	**10.56**	**11.98**	**15.02**	**14.40**

03150203-Middle Alabama

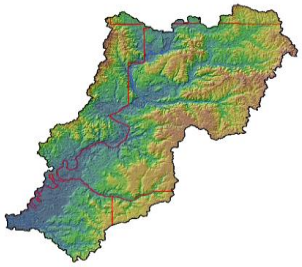
2040 FINAL DATA

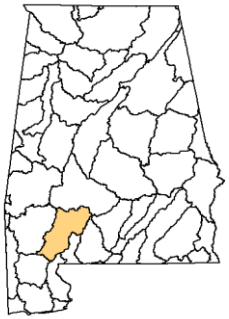
Total SW Withdrawals	SW	27.24	28.49	29.67	33.42	38.27	46.15	48.75	43.45	37.23	31.46	27.80	27.14	34.92
Total GW Withdrawals	SW	4.15	3.96	2.92	3.89	4.47	5.94	6.33	5.56	5.88	3.93	3.03	2.87	4.41
Withdrawal Total		31.39	32.45	32.58	37.31	42.74	52.09	55.08	49.01	43.11	35.39	30.83	30.01	39.33
Total Returns		**16.89**	**19.26**	**16.06**	**13.15**	**14.04**	**13.53**	**13.07**	**12.95**	**16.26**	**10.56**	**11.98**	**15.02**	14.40
Net SW (MGD)	SW	**10.35**	**9.23**	**13.61**	**20.27**	**24.23**	**32.62**	**35.68**	**30.50**	**20.97**	**20.90**	**15.82**	**12.12**	**20.52**


03150203-Middle Alabama
2040 FINAL DATA
Million Gallons per Day
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03150204-Lower Alabama





Area in AL (Square Miles)	1,450.0
Estimated Population (2040)	20,988
Subregion:	Alabama

2040 Demands

2040 FINAL DATA

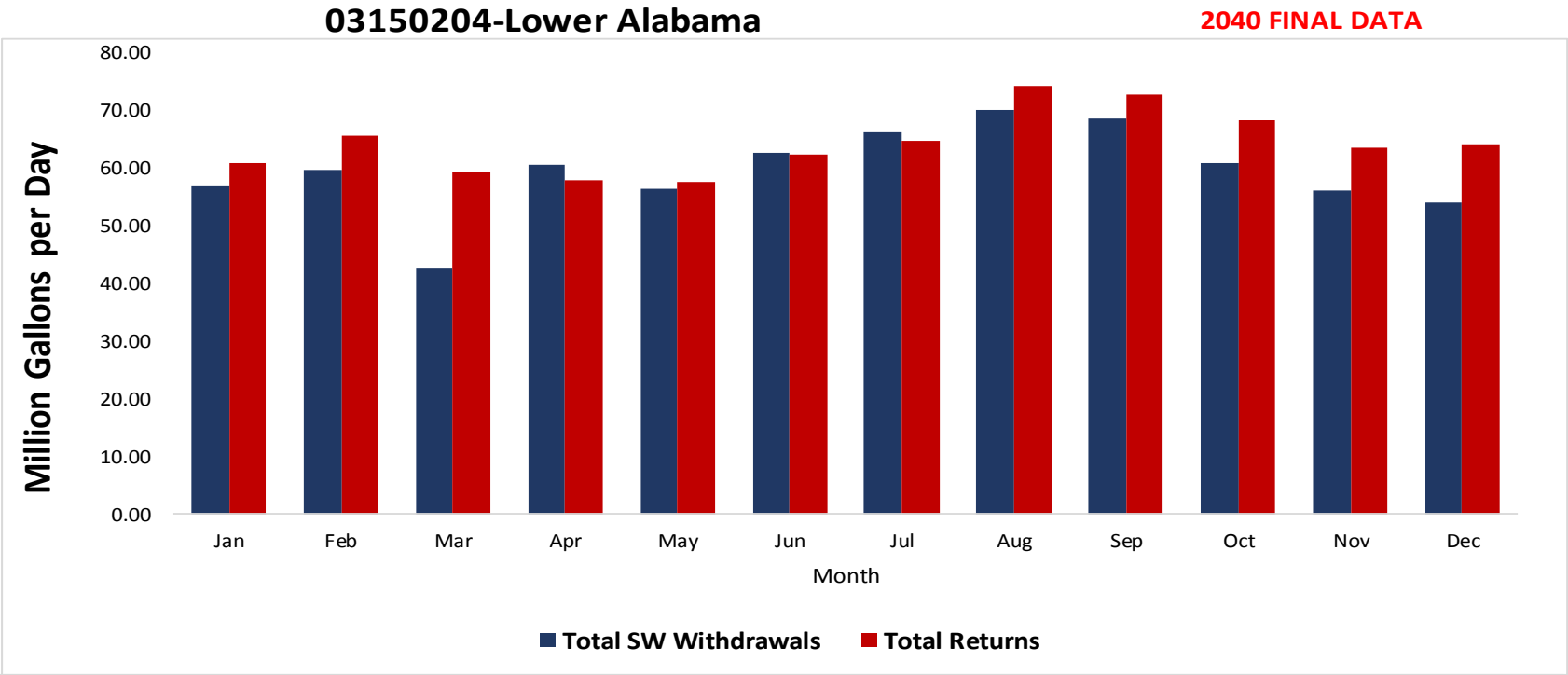
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	2.23	1.92	1.89	2.10	2.04	2.28	2.12	2.16	2.03	2.00	1.79	1.84	2.03
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.22	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.20	0.19
Industrial/Mining/ Thermoelectric	SW	56.66	59.33	42.55	59.99	55.79	61.77	65.11	69.18	67.91	60.40	55.83	53.79	59.02
Agriculture	GW	0.31	0.42	0.64	1.38	2.17	3.49	3.94	2.93	2.00	1.38	0.59	0.36	1.63
Agriculture	SW	0.21	0.23	0.30	0.50	0.66	0.92	1.04	0.86	0.71	0.53	0.31	0.22	0.54
Total	**SW**	**56.86**	**59.56**	**42.85**	**60.49**	**56.46**	**62.68**	**66.15**	**70.04**	**68.62**	**60.93**	**56.13**	**54.02**	**59.57**
Total	**GW**	**2.76**	**2.53**	**2.71**	**3.67**	**4.39**	**5.95**	**6.23**	**5.27**	**4.21**	**3.56**	**2.56**	**2.40**	**3.85**

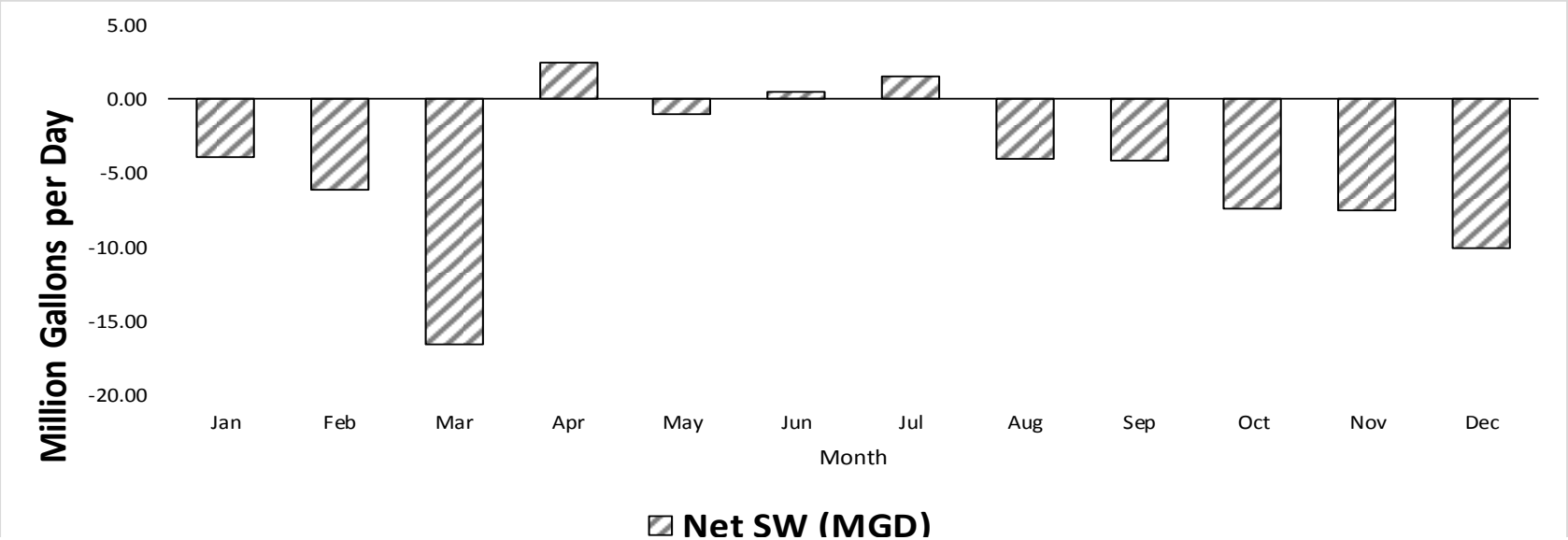
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		1.02	1.19	1.09	0.83	1.07	0.93	0.94	0.81	0.99	0.90	0.74	0.48	0.92
Industrial/Mining/ Thermoelectric		59.81	64.49	58.30	57.20	56.41	61.30	63.72	73.29	71.74	67.39	62.92	63.57	63.34
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**60.83**	**65.67**	**59.39**	**58.03**	**57.48**	**62.23**	**64.66**	**74.10**	**72.74**	**68.29**	**63.66**	**64.05**	**64.26**

03150204-Lower Alabama

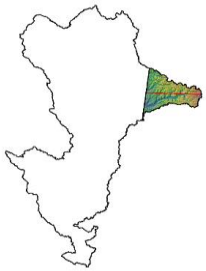
2040 FINAL DATA

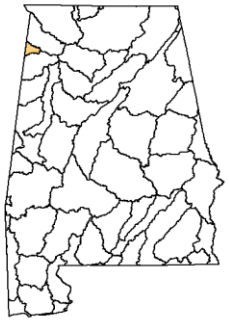
Total SW Withdrawals	SW	56.86	59.56	42.85	60.49	56.46	62.68	66.15	70.04	68.62	60.93	56.13	54.02	59.57
Total GW Withdrawals	SW	2.76	2.53	2.71	3.67	4.39	5.95	6.23	5.27	4.21	3.56	2.56	2.40	3.85
Withdrawal Total		59.62	62.09	45.56	64.16	60.85	68.63	72.38	75.30	72.83	64.50	58.70	56.41	63.42
Total Returns		**60.83**	**65.67**	**59.39**	**58.03**	**57.48**	**62.23**	**64.66**	**74.10**	**72.74**	**68.29**	**63.66**	**64.05**	64.26
Net SW (MGD)	SW	**-3.96**	**-6.12**	**-16.54**	**2.46**	**-1.02**	**0.46**	**1.49**	**-4.06**	**-4.12**	**-7.36**	**-7.52**	**-10.04**	**-4.69**


03150204-Lower Alabama
2040 FINAL DATA
Million Gallons per Day
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
5.00
0.00
-5.00
-10.00
-15.00
-20.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160101-Upper Tombigbee





Area in AL (Square Miles)	124.9
Estimated Population (2040)	2,572
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining/ Thermoelectric	SW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Agriculture	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Agriculture	SW	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Total	**SW**	**0.07**	**0.07**	**0.07**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.07**	**0.07**	**0.08**
Total	**GW**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**

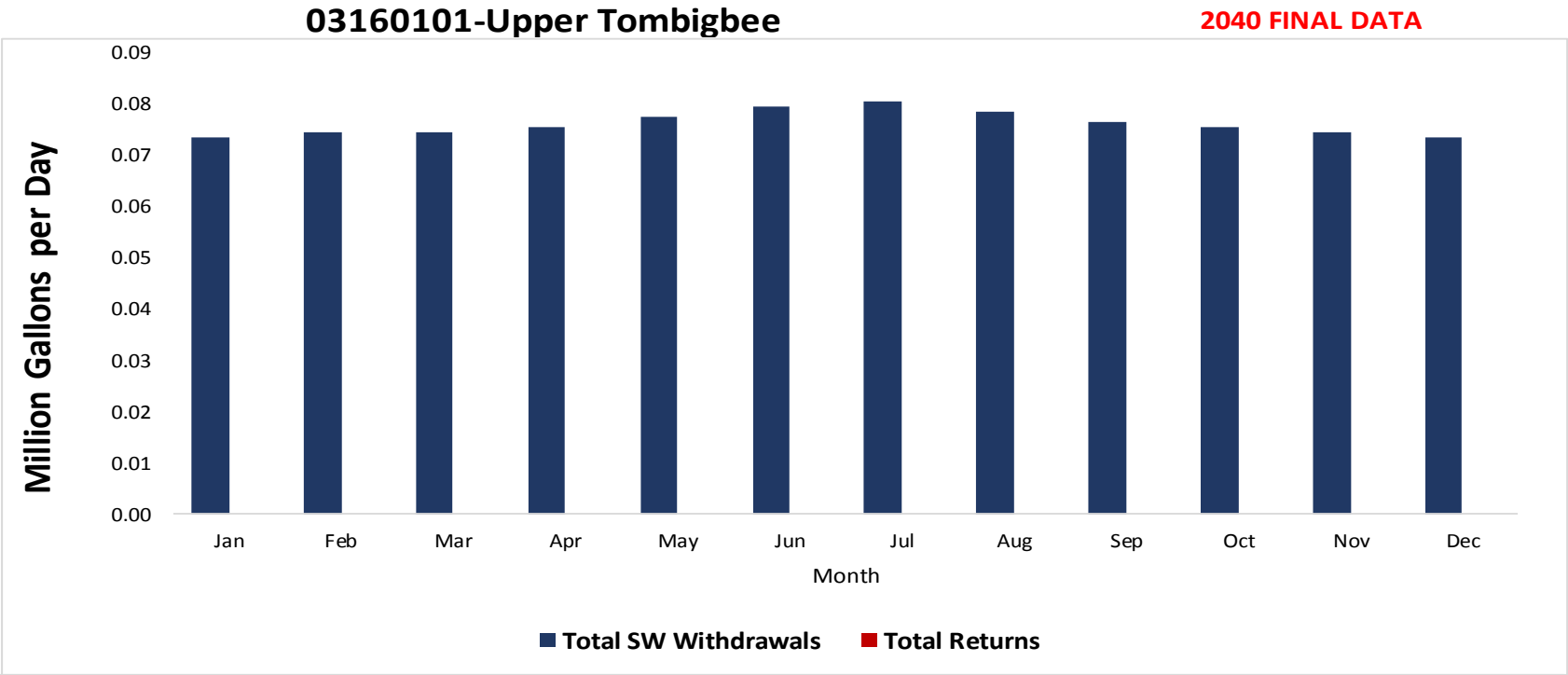
Returns (MGD)

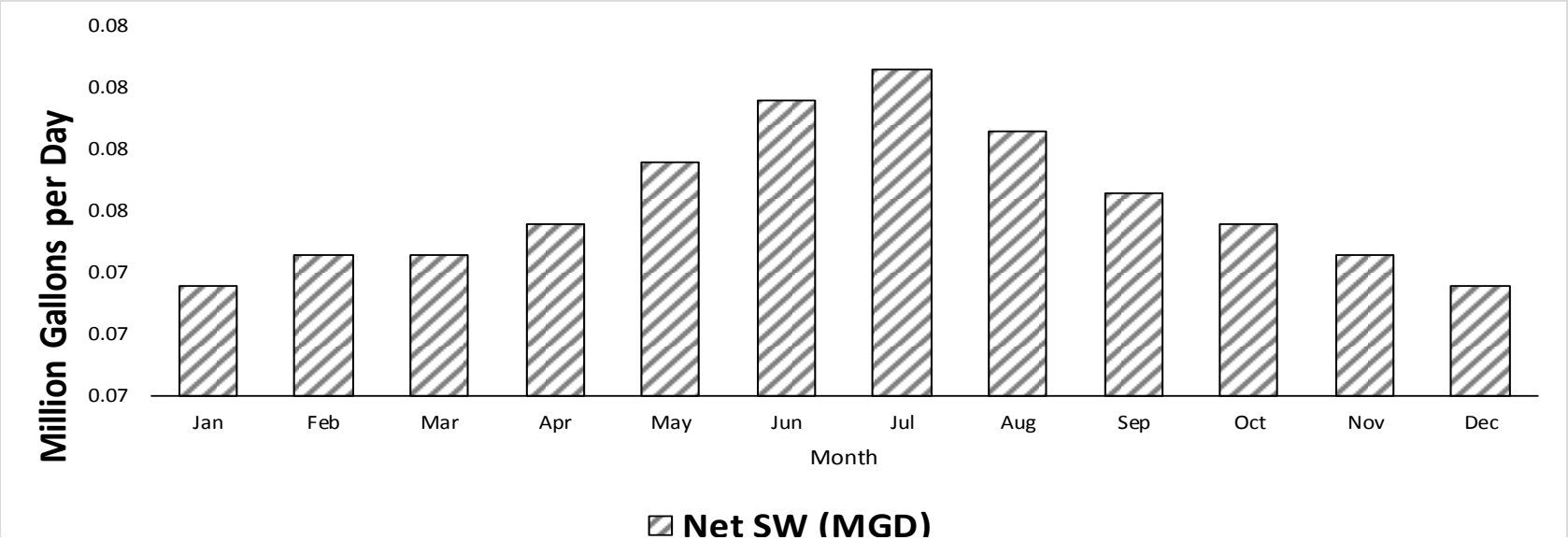
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

03160101-Upper Tombigbee

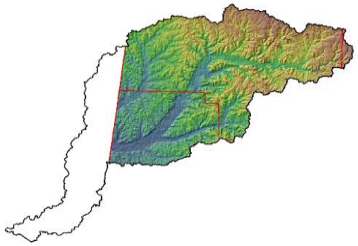
2040 FINAL DATA

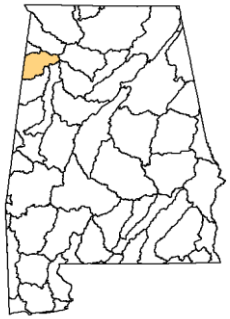
Total SW Withdrawals	SW	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.08
Total GW Withdrawals	SW	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Withdrawal Total		0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.16
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.07**	**0.07**	**0.07**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.07**	**0.07**	**0.08**


03160101-Upper Tombigbee
2040 FINAL DATA
Million Gallons per Day
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.08
0.08
0.08
0.08
0.07
0.07
0.07
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160103-Buttahatchee





Area in AL (Square Miles)	666.4
Estimated Population (2040)	20,809
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.61	0.45	0.47	0.47	0.51	0.63	0.58	0.55	0.50	0.48	0.50	0.54	0.52
Public Supply	SW	2.00	1.75	1.64	1.56	1.58	1.78	1.83	1.79	1.75	1.74	1.66	1.85	1.74
Industrial/Mining/ Thermoelectric	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining/ Thermoelectric	SW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Agriculture	GW	0.36	0.49	0.76	1.64	2.58	4.16	4.69	3.49	2.38	1.64	0.69	0.42	1.94
Agriculture	SW	0.20	0.22	0.30	0.51	0.67	0.94	1.07	0.88	0.72	0.53	0.30	0.22	0.55
Total	**SW**	**2.24**	**2.01**	**1.98**	**2.10**	**2.29**	**2.76**	**2.94**	**2.71**	**2.51**	**2.32**	**2.00**	**2.11**	**2.33**
Total	**GW**	**0.99**	**0.96**	**1.24**	**2.13**	**3.11**	**4.81**	**5.29**	**4.06**	**2.90**	**2.14**	**1.22**	**0.98**	**2.49**

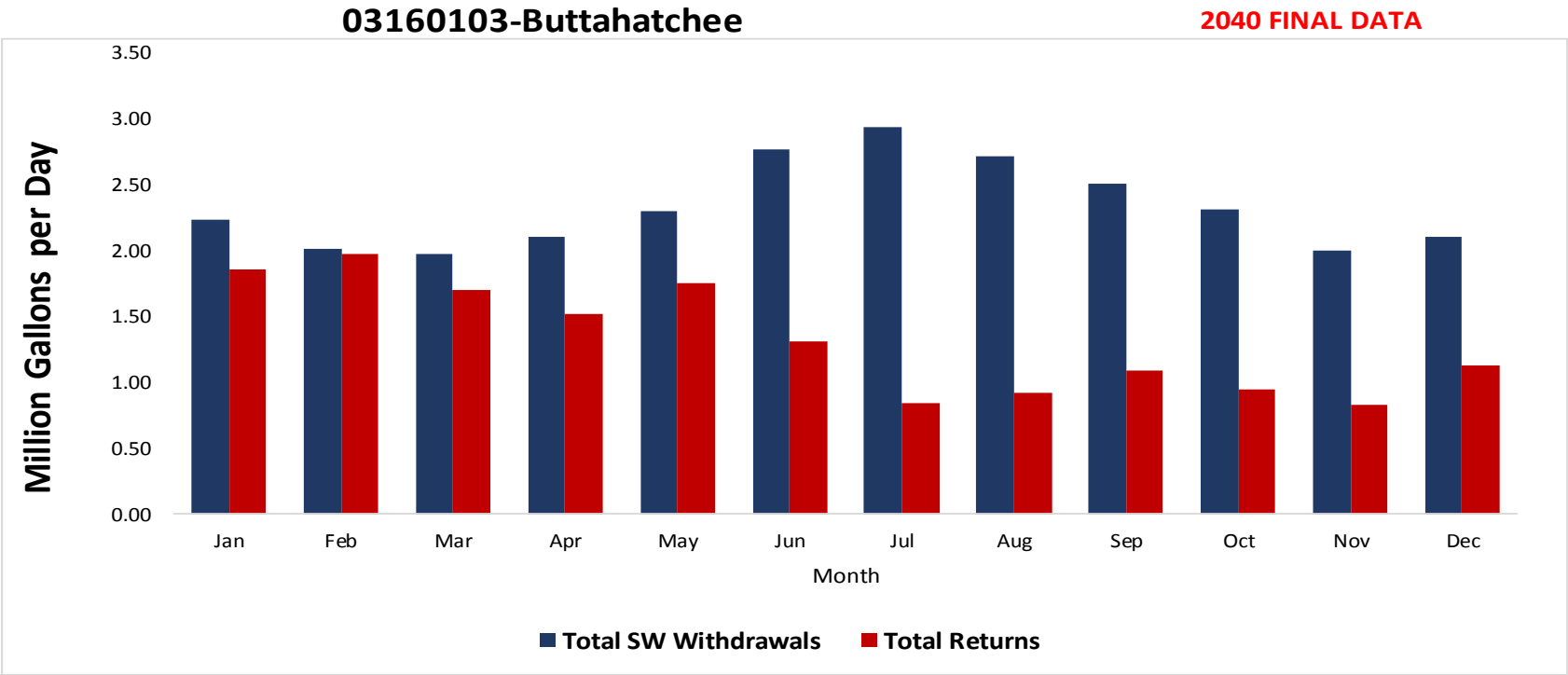
Returns (MGD)

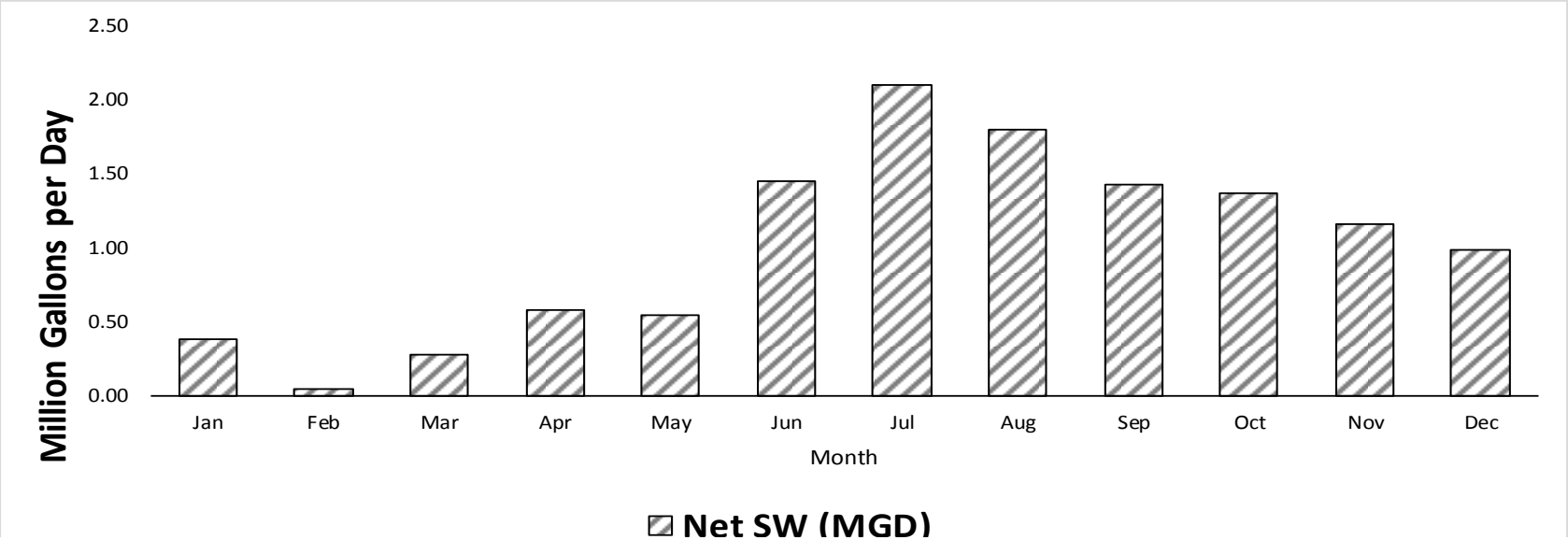
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.86	1.98	1.70	1.52	1.76	1.32	0.84	0.92	1.09	0.95	0.84	1.13	1.32
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.86**	**1.98**	**1.70**	**1.52**	**1.76**	**1.32**	**0.84**	**0.92**	**1.09**	**0.95**	**0.84**	**1.13**	**1.32**

03160103-Buttahatchee

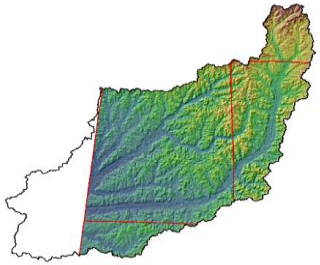
2040 FINAL DATA

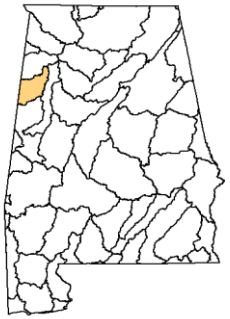
Total SW Withdrawals	SW	2.24	2.01	1.98	2.10	2.29	2.76	2.94	2.71	2.51	2.32	2.00	2.11	2.33
Total GW Withdrawals	SW	0.99	0.96	1.24	2.13	3.11	4.81	5.29	4.06	2.90	2.14	1.22	0.98	2.49
Withdrawal Total		3.23	2.97	3.22	4.23	5.40	7.57	8.23	6.77	5.41	4.45	3.21	3.09	4.82
Total Returns		**1.86**	**1.98**	**1.70**	**1.52**	**1.76**	**1.32**	**0.84**	**0.92**	**1.09**	**0.95**	**0.84**	**1.13**	1.32
Net SW (MGD)	SW	**0.38**	**0.04**	**0.28**	**0.58**	**0.54**	**1.45**	**2.10**	**1.79**	**1.42**	**1.37**	**1.16**	**0.98**	**1.01**


03160103-Buttahatchee
2040 FINAL DATA
Million Gallons per Day
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160105-Luxapallila





Area in AL (Square Miles)	661.7
Estimated Population (2040)	18,415
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.51	1.34	1.29	1.28	1.35	1.35	1.48	1.60	1.37	1.31	1.25	1.35	1.37
Public Supply	SW	1.71	1.58	1.53	1.61	1.58	1.71	1.69	1.78	1.77	1.66	1.51	1.58	1.64
Industrial/Mining/ Thermoelectric	GW	0.00	0.05	0.01	0.01	0.01	0.60	0.52	0.43	0.33	0.00	0.00	0.01	0.16
Industrial/Mining/ Thermoelectric	SW	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Agriculture	GW	0.06	0.06	0.07	0.09	0.12	0.17	0.18	0.15	0.12	0.09	0.07	0.06	0.10
Agriculture	SW	0.11	0.15	0.24	0.51	0.75	1.13	1.29	1.02	0.78	0.54	0.24	0.13	0.57
Total	**SW**	**2.10**	**2.00**	**2.05**	**2.40**	**2.61**	**3.12**	**3.26**	**3.07**	**2.82**	**2.47**	**2.03**	**1.99**	**2.49**
Total	**GW**	**1.57**	**1.45**	**1.36**	**1.38**	**1.47**	**2.12**	**2.19**	**2.17**	**1.82**	**1.41**	**1.32**	**1.41**	**1.64**

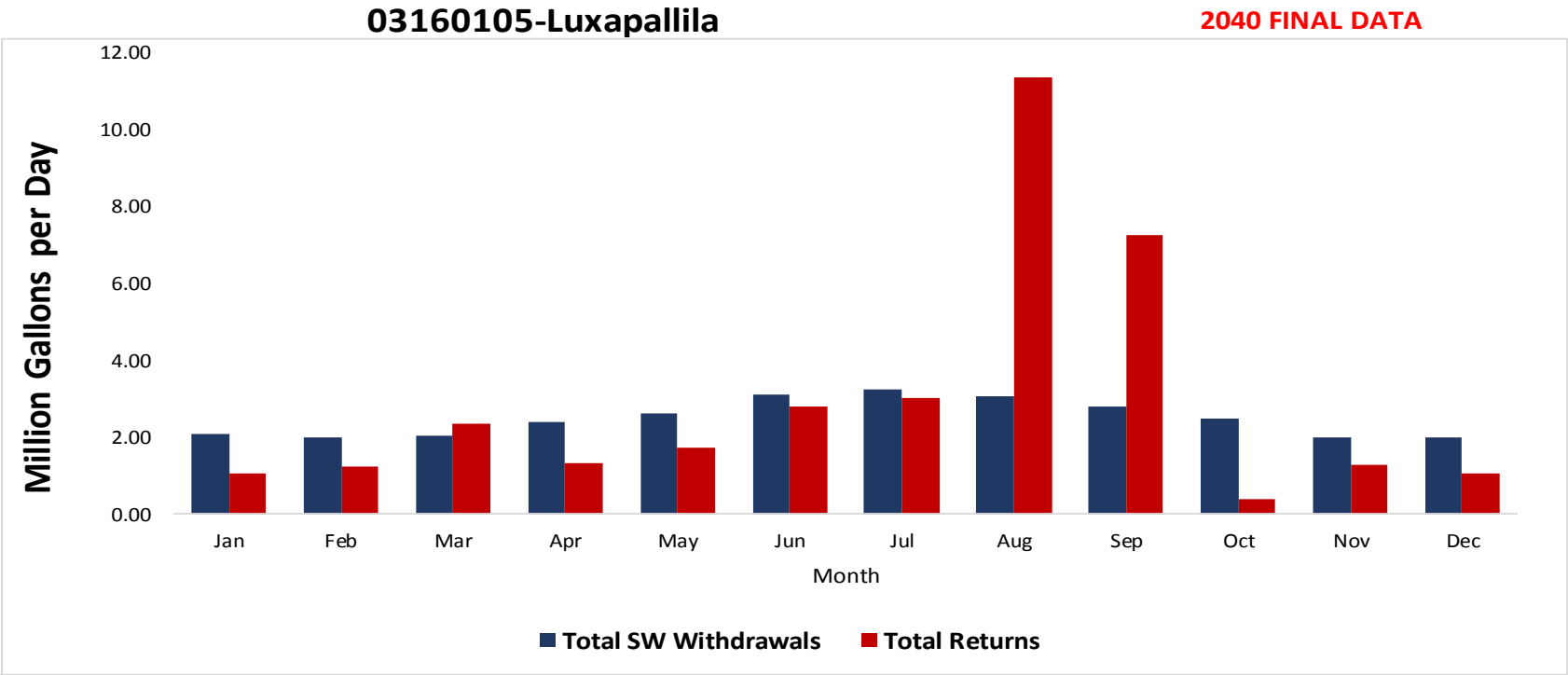
Returns (MGD)

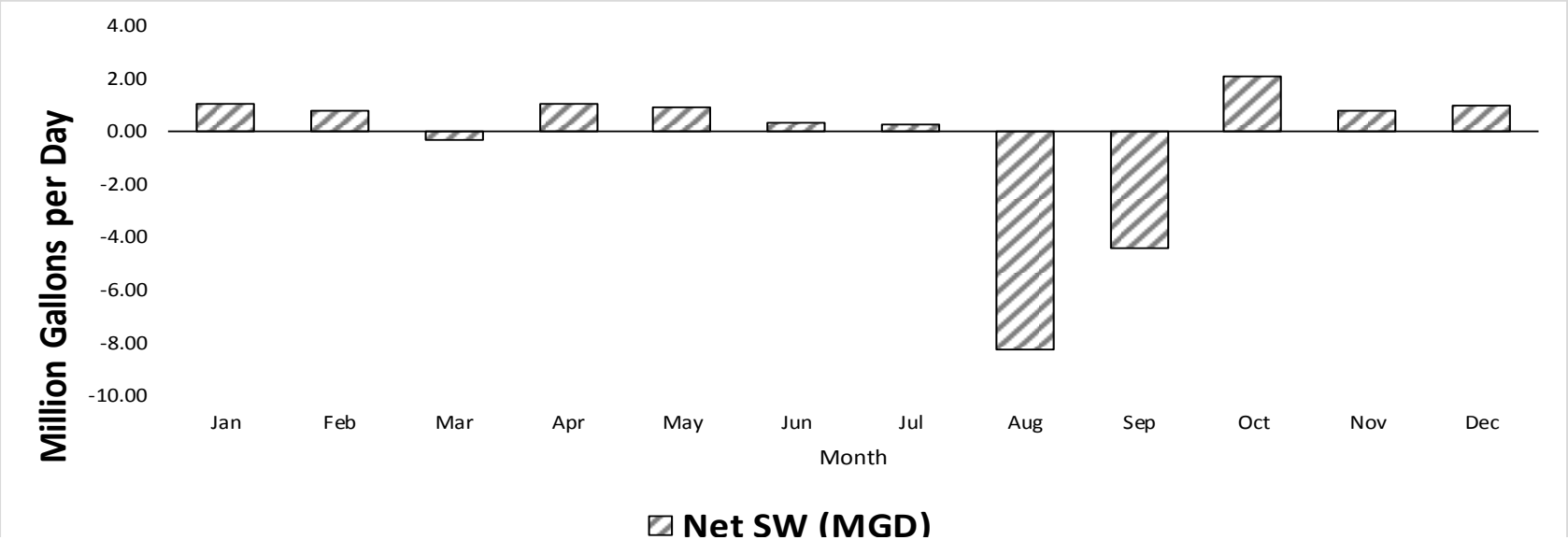
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.02	1.02	1.10	0.81	0.95	0.55	0.43	0.46	0.35	0.35	0.55	0.84	0.70
Industrial/Mining/ Thermoelectric		0.05	0.22	1.28	0.54	0.78	2.25	2.60	10.90	6.92	0.04	0.73	0.23	2.21
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.07**	**1.24**	**2.37**	**1.35**	**1.72**	**2.81**	**3.03**	**11.36**	**7.27**	**0.39**	**1.28**	**1.06**	**2.91**

03160105-Luxapallila

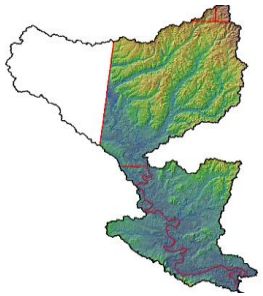
2040 FINAL DATA

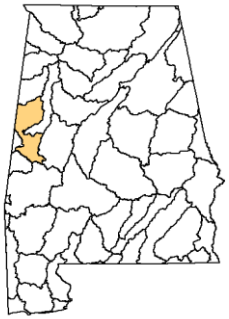
Total SW Withdrawals	SW	2.10	2.00	2.05	2.40	2.61	3.12	3.26	3.07	2.82	2.47	2.03	1.99	2.49
Total GW Withdrawals	SW	1.57	1.45	1.36	1.38	1.47	2.12	2.19	2.17	1.82	1.41	1.32	1.41	1.64
Withdrawal Total		3.67	3.45	3.41	3.78	4.08	5.24	5.44	5.25	4.64	3.88	3.34	3.41	4.13
Total Returns		**1.07**	**1.24**	**2.37**	**1.35**	**1.72**	**2.81**	**3.03**	**11.36**	**7.27**	**0.39**	**1.28**	**1.06**	2.91
Net SW (MGD)	SW	**1.03**	**0.76**	**-0.33**	**1.05**	**0.88**	**0.31**	**0.22**	**-8.29**	**-4.45**	**2.09**	**0.74**	**0.93**	**-0.42**


03160105-Luxapallila
2040 FINAL DATA
Million Gallons per Day
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
4.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160106-Middle Tombigbee-Lubbub





Area in AL (Square Miles)	1,272.0
Estimated Population (2040)	22,527
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	4.63	3.67	4.13	4.16	4.29	4.44	4.80	4.47	4.52	4.59	4.10	4.27	4.34
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Industrial/Mining/ Thermoelectric	SW	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Agriculture	GW	0.33	0.35	0.39	0.53	0.67	0.91	0.99	0.81	0.64	0.53	0.38	0.34	0.58
Agriculture	SW	9.49	9.56	9.73	10.27	10.78	11.64	11.96	11.32	10.75	10.29	9.71	9.52	10.42
Total	**SW**	**9.58**	**9.65**	**9.82**	**10.36**	**10.88**	**11.73**	**12.05**	**11.42**	**10.85**	**10.39**	**9.81**	**9.62**	**10.51**
Total	**GW**	**5.14**	**4.20**	**4.70**	**4.86**	**5.14**	**5.52**	**5.97**	**5.45**	**5.33**	**5.28**	**4.65**	**4.78**	**5.08**

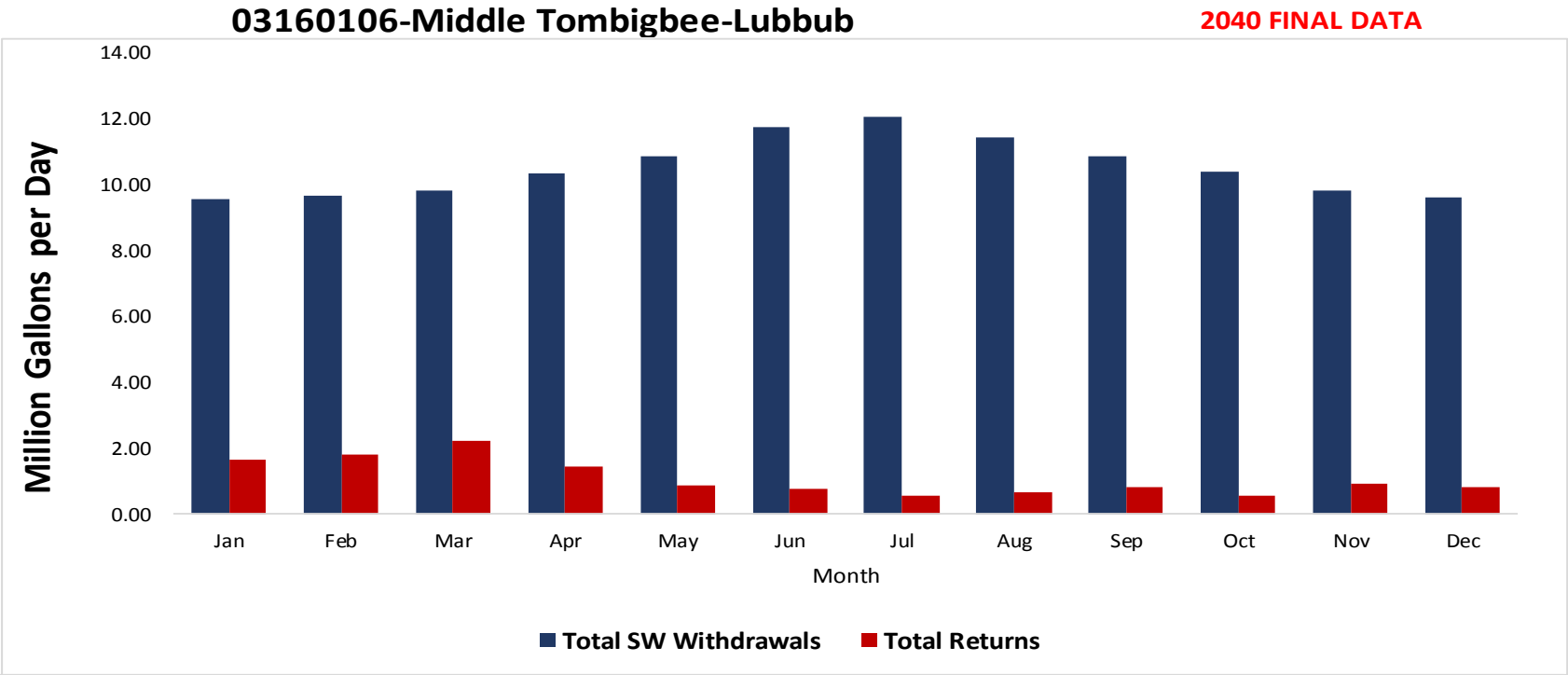
Returns (MGD)

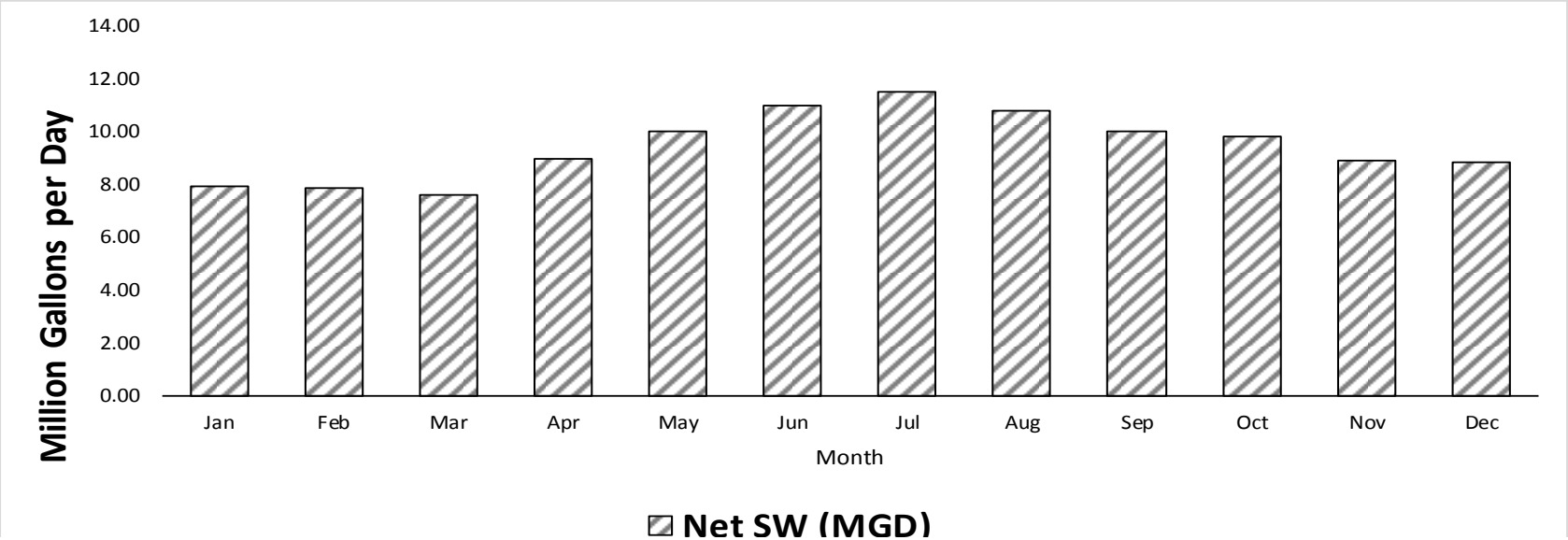
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.35	1.48	1.64	0.96	0.59	0.41	0.29	0.38	0.57	0.26	0.58	0.58	0.76
Industrial/Mining/ Thermoelectric		0.34	0.36	0.59	0.49	0.29	0.36	0.28	0.28	0.28	0.33	0.33	0.23	0.35
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.68**	**1.84**	**2.23**	**1.45**	**0.87**	**0.77**	**0.57**	**0.67**	**0.85**	**0.59**	**0.91**	**0.81**	**1.10**

03160106-Middle Tombigbee-Lubbub

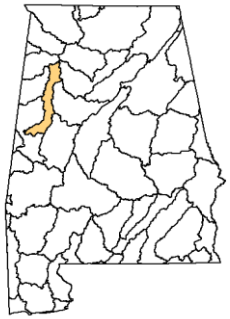
2040 FINAL DATA

Total SW Withdrawals	SW	9.58	9.65	9.82	10.36	10.88	11.73	12.05	11.42	10.85	10.39	9.81	9.62	10.51
Total GW Withdrawals	SW	5.14	4.20	4.70	4.86	5.14	5.52	5.97	5.45	5.33	5.28	4.65	4.78	5.08
Withdrawal Total		14.72	13.85	14.52	15.22	16.01	17.25	18.02	16.87	16.18	15.67	14.46	14.40	15.60
Total Returns		**1.68**	**1.84**	**2.23**	**1.45**	**0.87**	**0.77**	**0.57**	**0.67**	**0.85**	**0.59**	**0.91**	**0.81**	1.10
Net SW (MGD)	SW	**7.90**	**7.82**	**7.59**	**8.91**	**10.01**	**10.96**	**11.49**	**10.75**	**10.00**	**9.80**	**8.89**	**8.81**	**9.41**


03160106-Middle Tombigbee-Lubbub
2040 FINAL DATA
Million Gallons per Day
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160107-Sipsey



Area in AL (Square Miles)	787.0
Estimated Population (2040)	22,890
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.75	0.69	0.64	0.60	0.66	0.67	0.68	0.68	0.62	0.65	0.64	0.67	0.66
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Industrial/Mining/ Thermoelectric	SW	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Agriculture	GW	0.12	0.14	0.17	0.26	0.37	0.54	0.60	0.47	0.34	0.26	0.16	0.13	0.30
Agriculture	SW	0.42	0.47	0.57	0.90	1.20	1.68	1.88	1.52	1.22	0.93	0.57	0.45	0.98
Total	**SW**	**1.02**	**1.07**	**1.17**	**1.50**	**1.80**	**2.28**	**2.48**	**2.13**	**1.82**	**1.53**	**1.17**	**1.05**	**1.58**
Total	**GW**	**0.88**	**0.83**	**0.81**	**0.88**	**1.04**	**1.22**	**1.29**	**1.15**	**0.98**	**0.93**	**0.81**	**0.81**	**0.97**

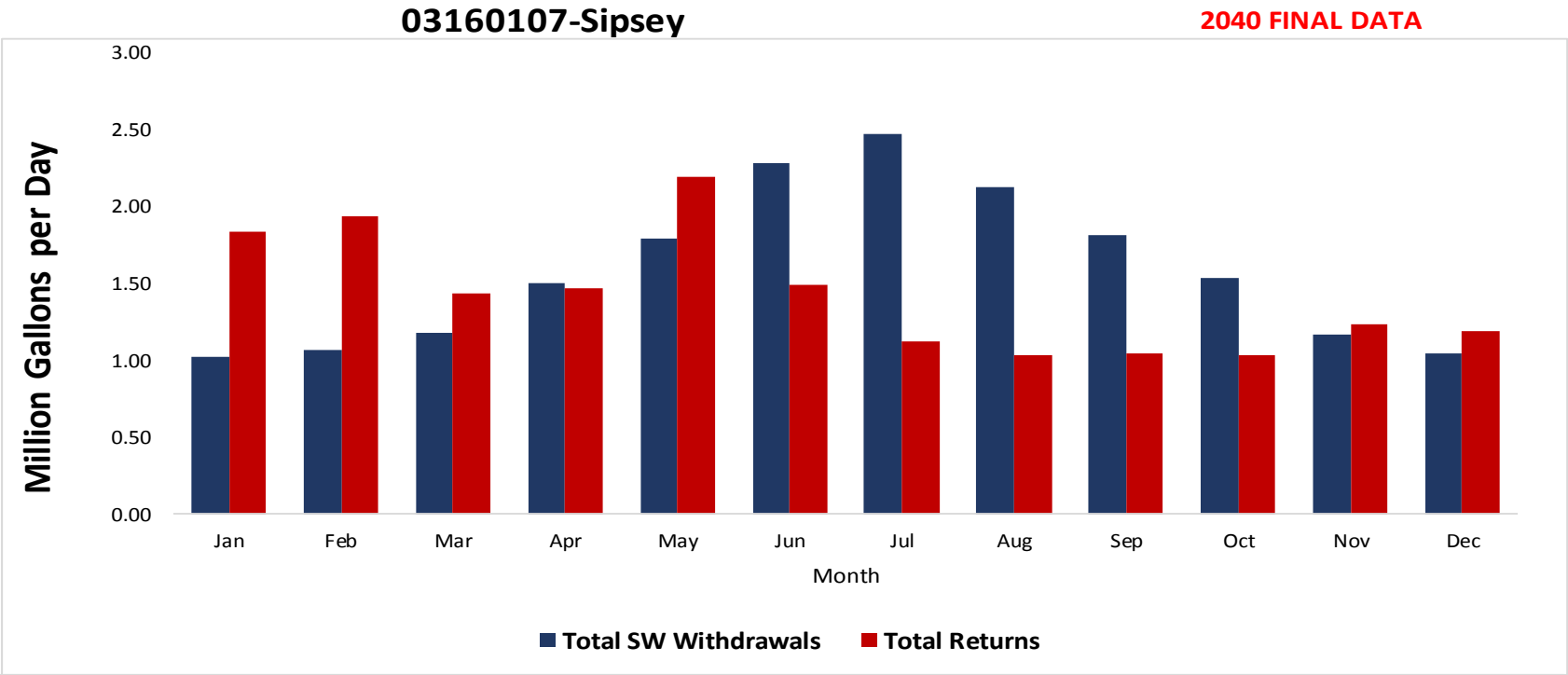
Returns (MGD)

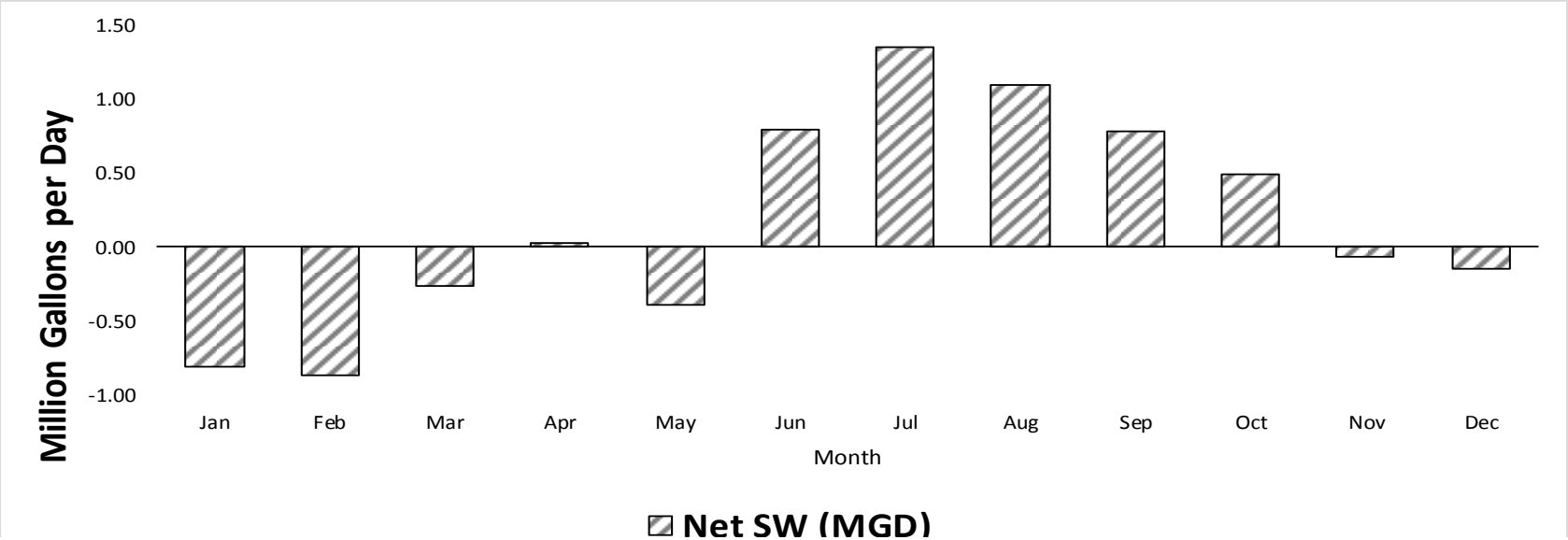
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.84	1.93	1.44	1.43	2.13	1.43	1.13	1.03	1.03	1.03	1.24	1.19	1.40
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.05	0.06	0.06	0.00	0.00	0.01	0.01	0.00	0.00	0.02
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.84**	**1.93**	**1.44**	**1.48**	**2.19**	**1.49**	**1.13**	**1.03**	**1.04**	**1.04**	**1.24**	**1.19**	**1.42**

03160107-Sipsey

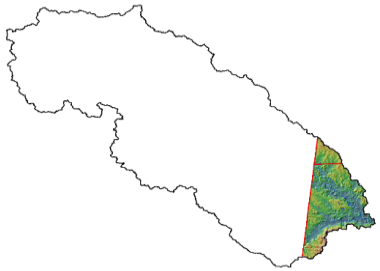
2040 FINAL DATA

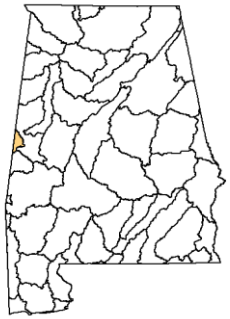
Total SW Withdrawals	SW	1.02	1.07	1.17	1.50	1.80	2.28	2.48	2.13	1.82	1.53	1.17	1.05	1.58
Total GW Withdrawals	SW	0.88	0.83	0.81	0.88	1.04	1.22	1.29	1.15	0.98	0.93	0.81	0.81	0.97
Withdrawal Total		1.90	1.90	1.99	2.38	2.83	3.50	3.77	3.28	2.79	2.46	1.98	1.86	2.55
Total Returns		**1.84**	**1.93**	**1.44**	**1.48**	**2.19**	**1.49**	**1.13**	**1.03**	**1.04**	**1.04**	**1.24**	**1.19**	1.42
Net SW (MGD)	SW	**-0.81**	**-0.87**	**-0.26**	**0.03**	**-0.39**	**0.79**	**1.35**	**1.09**	**0.78**	**0.50**	**-0.07**	**-0.14**	**0.17**


03160107-Sipsey
2040 FINAL DATA
Million Gallons per Day
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
1.50
1.00
0.50
0.00
-0.50
-1.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160108-Noxubee





Area in AL (Square Miles)	139.0
Estimated Population (2040)	1,163
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Industrial/Mining/ Thermoelectric	SW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Agriculture	GW	0.04	0.06	0.09	0.19	0.29	0.47	0.53	0.39	0.27	0.19	0.08	0.05	0.22
Agriculture	SW	1.00	1.01	1.02	1.05	1.09	1.16	1.18	1.13	1.09	1.05	1.02	1.00	1.07
Total	**SW**	**1.05**	**1.06**	**1.07**	**1.10**	**1.14**	**1.21**	**1.23**	**1.18**	**1.14**	**1.10**	**1.07**	**1.05**	**1.12**
Total	**GW**	**0.15**	**0.17**	**0.20**	**0.30**	**0.40**	**0.58**	**0.64**	**0.50**	**0.38**	**0.30**	**0.19**	**0.16**	**0.33**

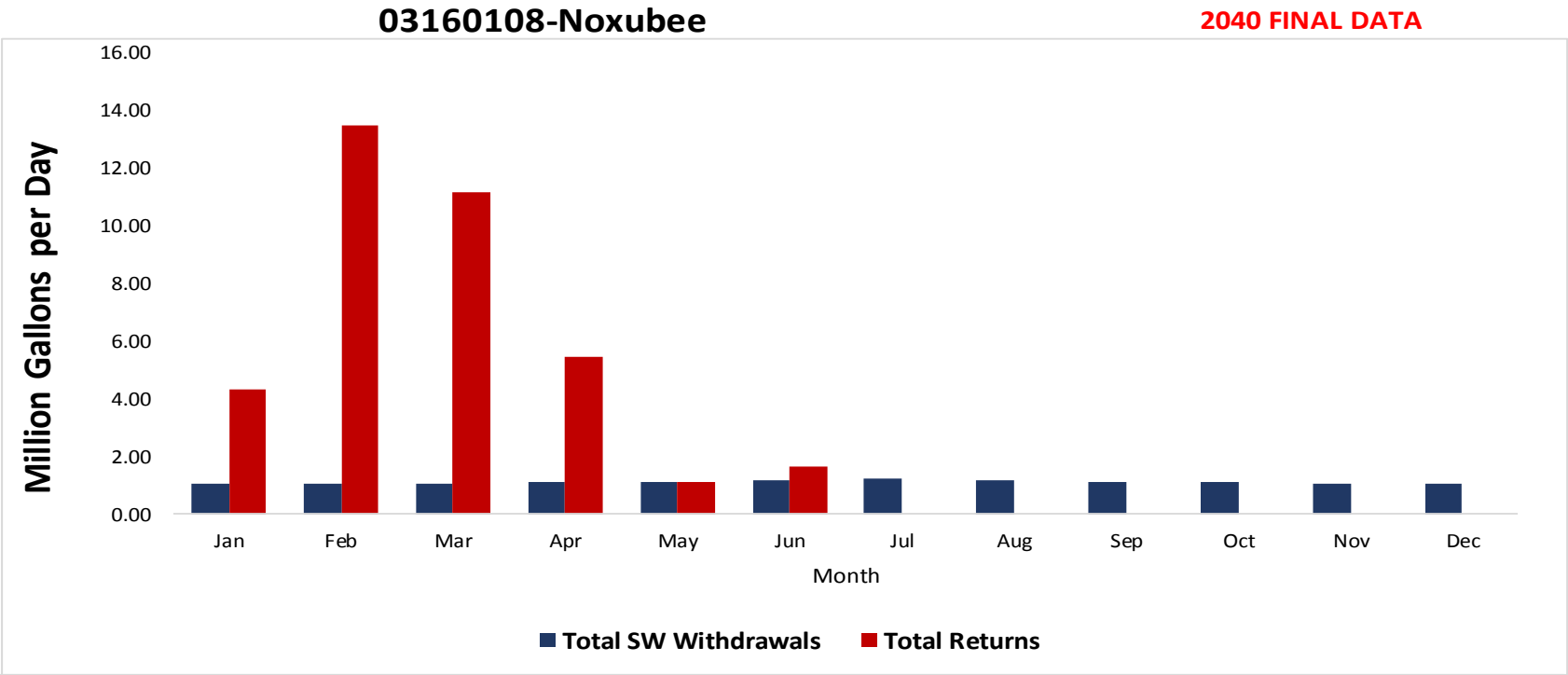
Returns (MGD)

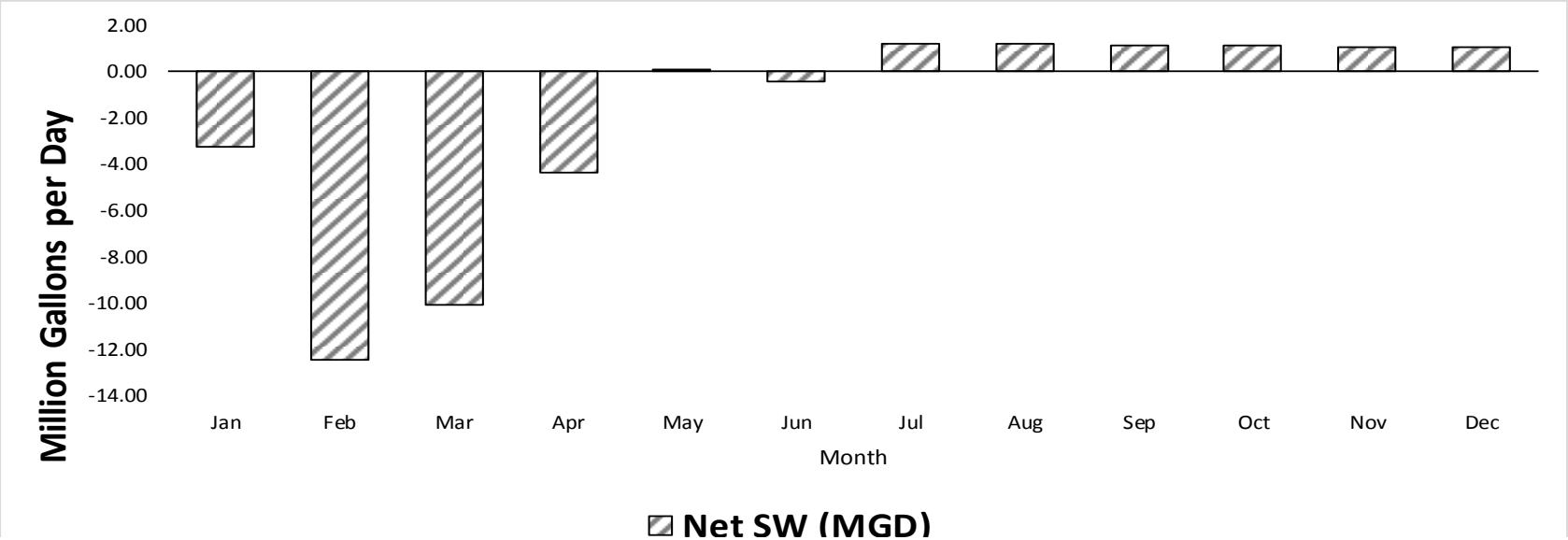
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		4.34	13.51	11.18	5.47	1.10	1.65	0.00	0.00	0.00	0.00	0.00	0.00	3.10
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**4.34**	**13.51**	**11.18**	**5.47**	**1.10**	**1.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.10**

03160108-Noxubee

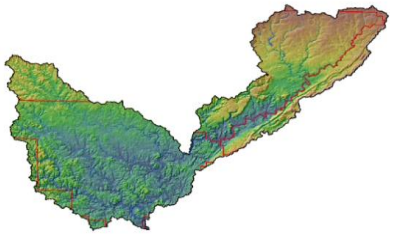
2040 FINAL DATA

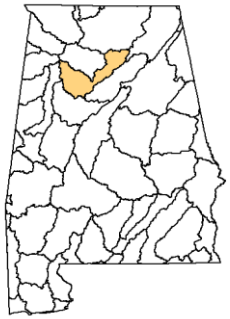
Total SW Withdrawals	SW	1.05	1.06	1.07	1.10	1.14	1.21	1.23	1.18	1.14	1.10	1.07	1.05	1.12
Total GW Withdrawals	SW	0.15	0.17	0.20	0.30	0.40	0.58	0.64	0.50	0.38	0.30	0.19	0.16	0.33
Withdrawal Total		1.20	1.22	1.27	1.40	1.55	1.79	1.87	1.69	1.51	1.40	1.26	1.21	1.45
Total Returns		**4.34**	**13.51**	**11.18**	**5.47**	**1.10**	**1.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	3.10
Net SW (MGD)	SW	**-3.29**	**-12.45**	**-10.11**	**-4.37**	**0.04**	**-0.44**	**1.23**	**1.18**	**1.14**	**1.10**	**1.07**	**1.05**	**-1.99**


03160108-Noxubee
2040 FINAL DATA
Million Gallons per Day
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
-14.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160109-Mulberry Fork





Area in AL (Square Miles)	1,371.0
Estimated Population (2040)	133,598
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.89	0.81	0.89	0.80	0.80	0.85	0.87	0.92	0.83	0.70	0.52	0.90	0.82
Public Supply	SW	65.63	56.59	48.15	55.35	58.31	62.28	62.84	53.81	44.91	42.96	44.35	27.63	51.90
Industrial/Mining/ Thermoelectric	GW	0.16	0.16	0.16	0.16	0.16	0.16	4.14	0.16	4.14	0.16	0.16	0.16	0.82
Industrial/Mining/ Thermoelectric	SW	1407.62	1576.44	1607.50	1529.65	1226.35	1662.18	1638.84	1652.52	1581.54	959.88	916.31	1455.16	1434.50
Agriculture	GW	0.86	0.93	1.09	1.61	2.15	3.07	3.38	2.68	2.03	1.60	1.05	0.89	1.78
Agriculture	SW	0.91	0.98	1.19	1.81	2.30	3.08	3.44	2.90	2.44	1.89	1.21	0.95	1.93
Total	**SW**	**1474.16**	**1634.01**	**1656.84**	**1586.80**	**1286.95**	**1727.54**	**1705.13**	**1709.23**	**1628.90**	**1004.73**	**961.88**	**1483.75**	**1488.33**
Total	**GW**	**1.90**	**1.90**	**2.13**	**2.56**	**3.11**	**4.08**	**8.39**	**3.76**	**7.01**	**2.46**	**1.73**	**1.95**	**3.41**

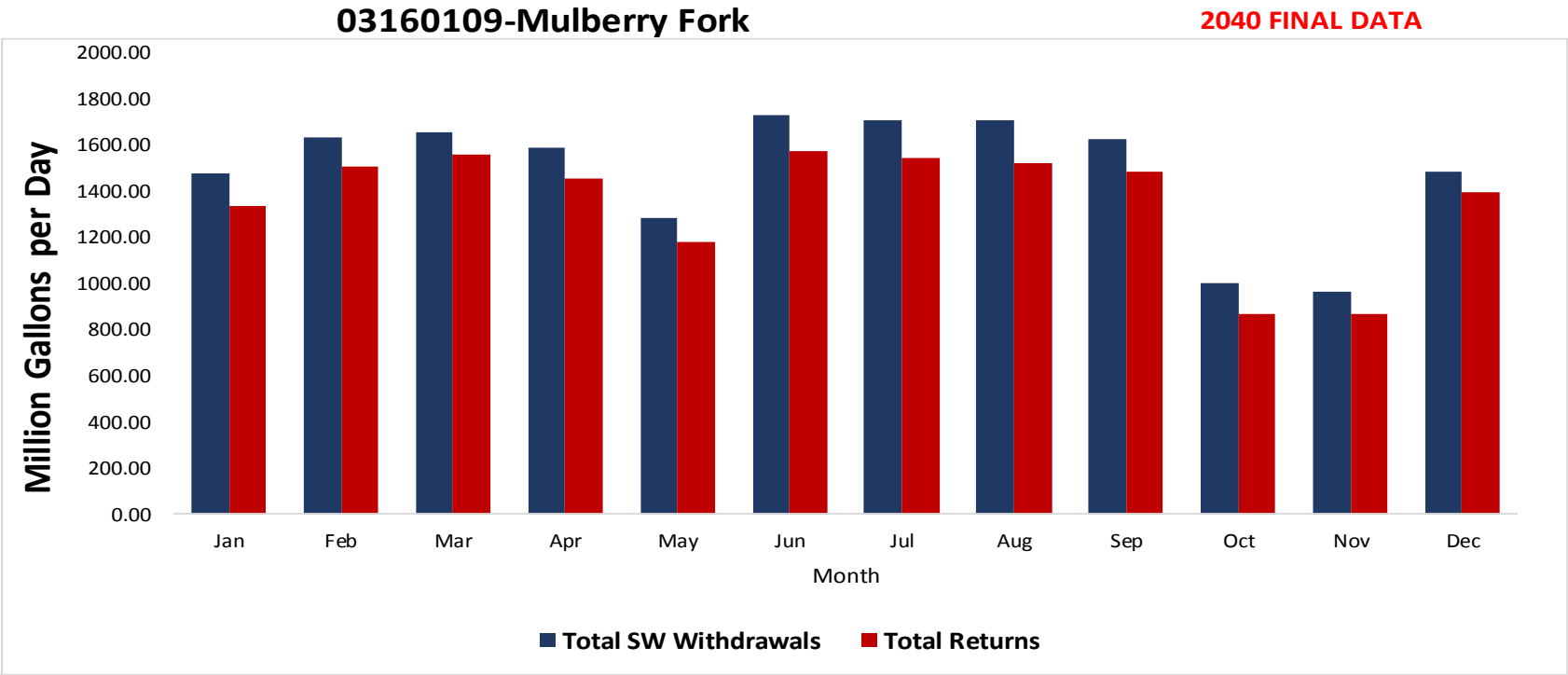
Returns (MGD)

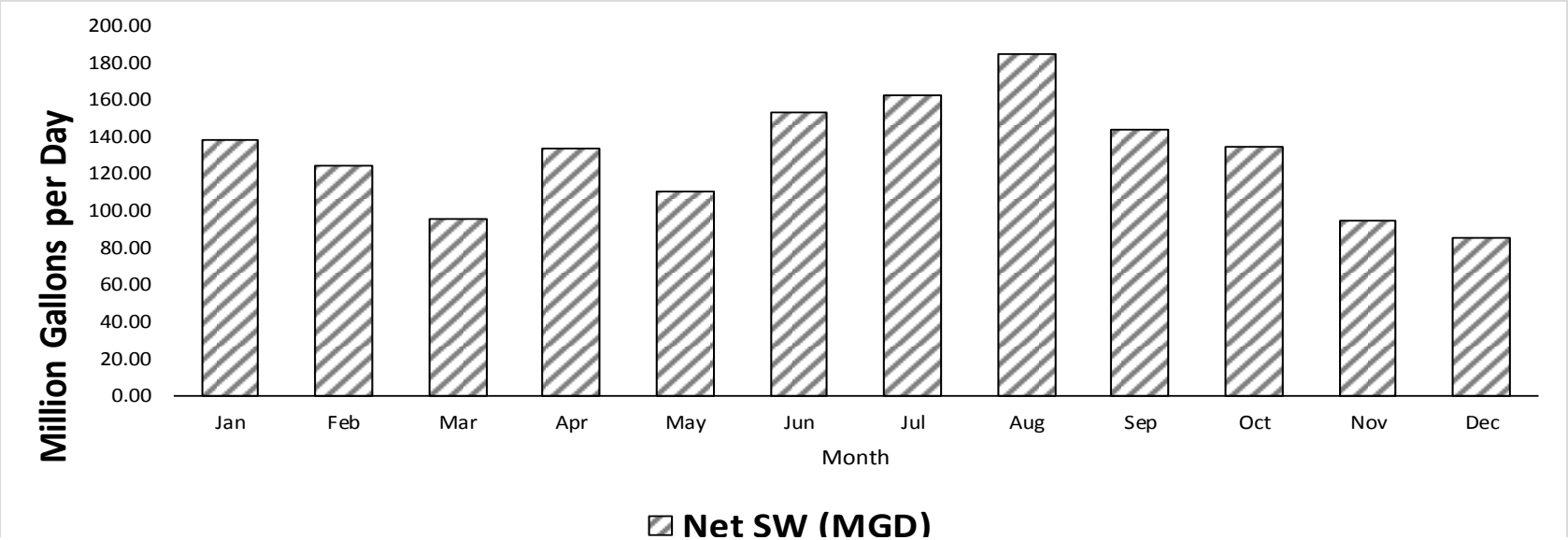
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		15.75	18.28	18.53	12.59	15.10	10.48	8.13	8.01	6.82	6.58	7.65	9.49	11.45
Industrial/Mining/ Thermoelectric		1320.37	1491.71	1542.72	1440.83	1162.21	1564.65	1535.16	1516.68	1478.16	864.10	859.95	1389.24	1347.15
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1336.12**	**1509.99**	**1561.25**	**1453.43**	**1177.31**	**1575.13**	**1543.29**	**1524.69**	**1484.99**	**870.67**	**867.61**	**1398.73**	**1358.60**

03160109-Mulberry Fork

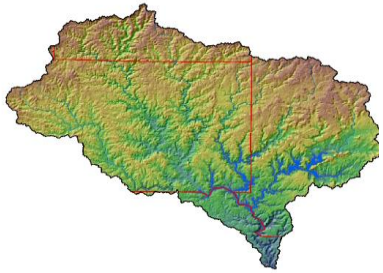
2040 FINAL DATA

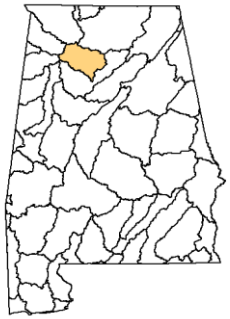
Total SW Withdrawals	SW	1474.16	1634.01	1656.84	1586.80	1286.95	1727.54	1705.13	1709.23	1628.90	1004.73	961.88	1483.75	1488.33
Total GW Withdrawals	SW	1.90	1.90	2.13	2.56	3.11	4.08	8.39	3.76	7.01	2.46	1.73	1.95	3.41
Withdrawal Total		1476.06	1635.91	1658.97	1589.36	1290.06	1731.62	1713.52	1712.99	1635.90	1007.19	963.61	1485.69	1491.74
Total Returns		**1336.12**	**1509.99**	**1561.25**	**1453.43**	**1177.31**	**1575.13**	**1543.29**	**1524.69**	**1484.99**	**870.67**	**867.61**	**1398.73**	1358.60
Net SW (MGD)	SW	**138.04**	**124.02**	**95.59**	**133.38**	**109.64**	**152.42**	**161.83**	**184.55**	**143.91**	**134.06**	**94.27**	**85.02**	**129.73**


03160109-Mulberry Fork
2040 FINAL DATA
Million Gallons per Day
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160110-Sipsey Fork





Area in AL (Square Miles)	996.0
Estimated Population (2040)	52,665
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	6.94	7.02	11.67	6.76	6.78	11.64	19.29	27.65	35.31	35.28	24.93	39.05	19.36
Industrial/Mining/ Thermoelectric	GW	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial/Mining/ Thermoelectric	SW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Agriculture	GW	0.56	0.57	0.58	0.61	0.65	0.72	0.74	0.69	0.64	0.61	0.58	0.57	0.63
Agriculture	SW	0.64	0.66	0.76	1.01	1.16	1.40	1.55	1.40	1.30	1.06	0.78	0.66	1.03
Total	**SW**	**7.62**	**7.72**	**12.46**	**7.80**	**7.98**	**13.08**	**20.87**	**29.08**	**36.64**	**36.38**	**25.74**	**39.75**	**20.43**
Total	**GW**	**0.66**	**0.67**	**0.68**	**0.72**	**0.75**	**0.82**	**0.84**	**0.79**	**0.75**	**0.72**	**0.68**	**0.67**	**0.73**

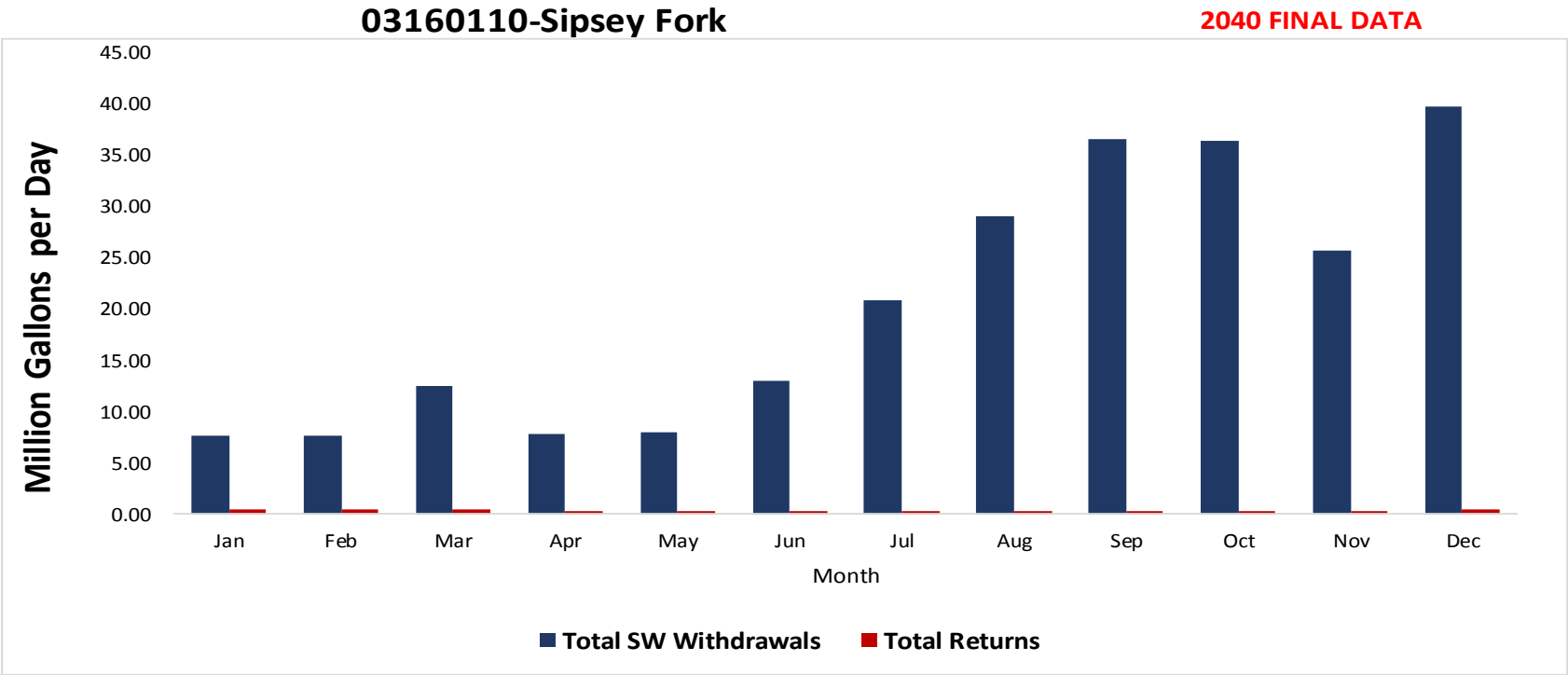
Returns (MGD)

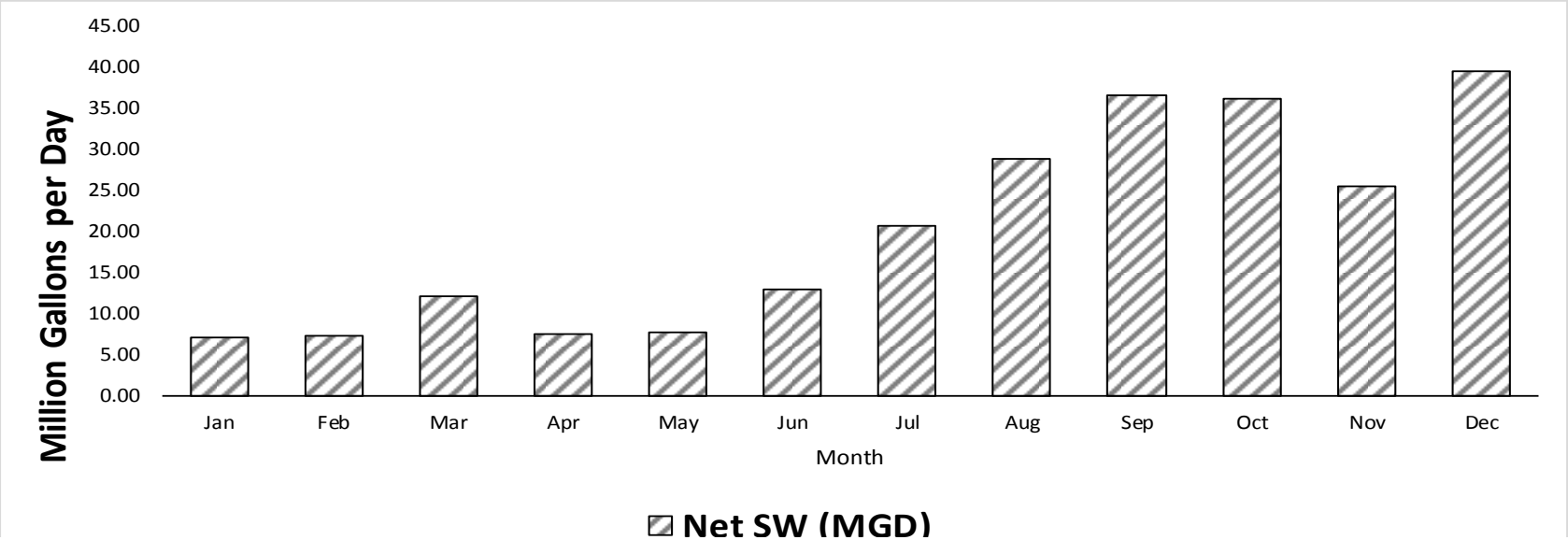
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.56	0.54	0.50	0.38	0.39	0.28	0.25	0.27	0.27	0.32	0.41	0.45	0.38
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.56**	**0.54**	**0.50**	**0.38**	**0.39**	**0.28**	**0.25**	**0.27**	**0.27**	**0.32**	**0.41**	**0.45**	**0.38**

03160110-Sipsey Fork

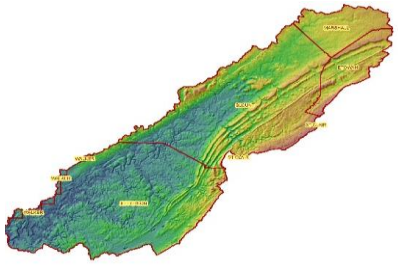
2040 FINAL DATA

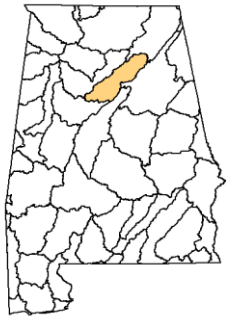
Total SW Withdrawals	SW	7.62	7.72	12.46	7.80	7.98	13.08	20.87	29.08	36.64	36.38	25.74	39.75	20.43
Total GW Withdrawals	SW	0.66	0.67	0.68	0.72	0.75	0.82	0.84	0.79	0.75	0.72	0.68	0.67	0.73
Withdrawal Total		8.28	8.39	13.14	8.51	8.73	13.90	21.71	29.87	37.38	37.10	26.42	40.41	21.15
Total Returns		**0.56**	**0.54**	**0.50**	**0.38**	**0.39**	**0.28**	**0.25**	**0.27**	**0.27**	**0.32**	**0.41**	**0.45**	0.38
Net SW (MGD)	SW	**7.06**	**7.18**	**11.96**	**7.42**	**7.58**	**12.80**	**20.63**	**28.82**	**36.37**	**36.06**	**25.33**	**39.29**	**20.04**


03160110-Sipsey Fork
2040 FINAL DATA
Million Gallons per Day
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160111-Locust Fork





Area in AL (Square Miles)	1,209.0
Estimated Population (2040)	321,240
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	2.65	2.59	2.60	2.49	2.47	2.70	2.73	2.58	3.23	3.02	2.98	3.16	2.77
Public Supply	SW	59.45	61.93	63.95	65.40	64.87	67.23	69.83	68.14	68.09	65.82	63.56	63.92	65.18
Industrial/Mining/ Thermoelectric	GW	0.99	1.11	0.93	0.91	1.05	0.91	0.89	0.95	1.07	0.91	0.95	0.90	0.96
Industrial/Mining/ Thermoelectric	SW	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Agriculture	GW	0.51	0.53	0.58	0.74	0.92	1.20	1.30	1.08	0.88	0.74	0.57	0.52	0.80
Agriculture	SW	0.70	0.82	1.43	2.99	3.74	4.87	5.76	5.20	4.91	3.43	1.65	0.82	3.03
Total	**SW**	**60.50**	**63.09**	**65.72**	**68.73**	**68.96**	**72.45**	**75.93**	**73.68**	**73.35**	**69.60**	**65.56**	**65.09**	**68.55**
Total	**GW**	**4.14**	**4.24**	**4.12**	**4.14**	**4.44**	**4.81**	**4.92**	**4.61**	**5.17**	**4.67**	**4.50**	**4.58**	**4.53**

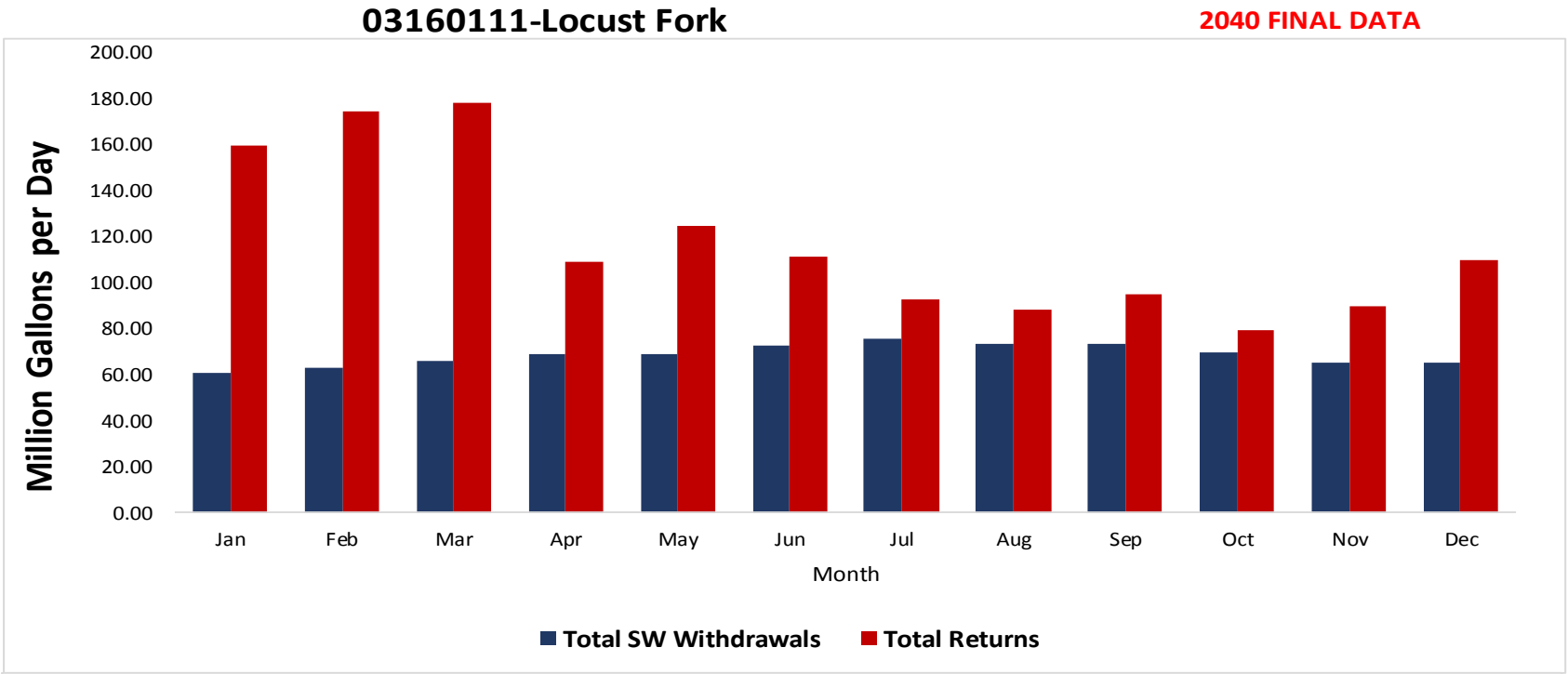
Returns (MGD)

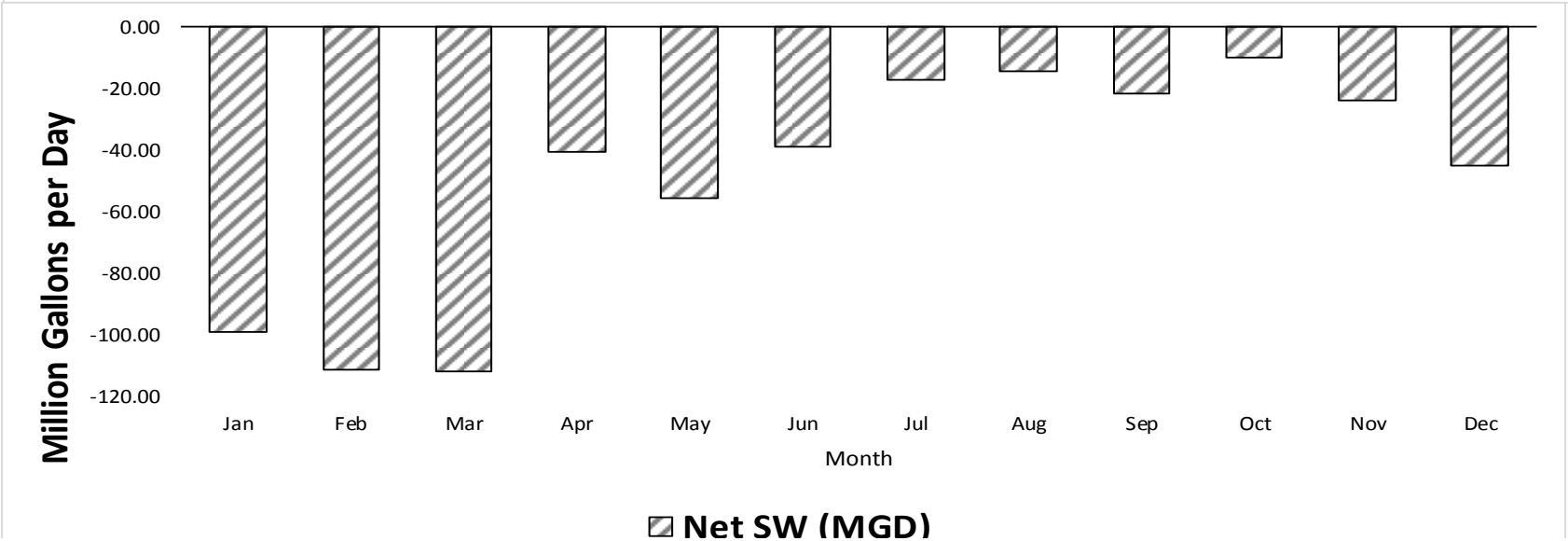
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		130.32	144.94	147.64	89.26	108.74	92.98	78.76	69.30	69.45	64.46	74.59	83.63	96.17
Industrial/Mining/ Thermoelectric		29.19	29.43	30.24	19.97	15.70	18.45	14.27	19.00	25.59	15.10	14.90	26.25	21.51
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**159.51**	**174.37**	**177.88**	**109.22**	**124.44**	**111.43**	**93.03**	**88.30**	**95.04**	**79.56**	**89.48**	**109.88**	**117.68**

03160111-Locust Fork

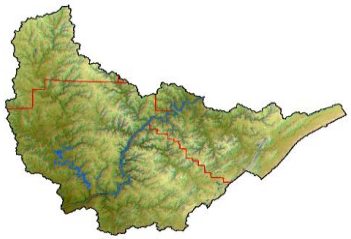
2040 FINAL DATA

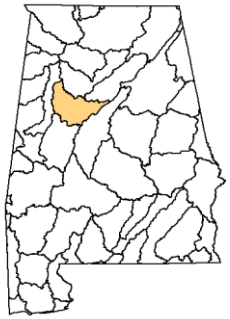
Total SW Withdrawals	SW	60.50	63.09	65.72	68.73	68.96	72.45	75.93	73.68	73.35	69.60	65.56	65.09	68.55
Total GW Withdrawals	SW	4.14	4.24	4.12	4.14	4.44	4.81	4.92	4.61	5.17	4.67	4.50	4.58	4.53
Withdrawal Total		64.64	67.33	69.84	72.87	73.40	77.26	80.85	78.29	78.52	74.27	70.06	69.67	73.08
Total Returns		**159.51**	**174.37**	**177.88**	**109.22**	**124.44**	**111.43**	**93.03**	**88.30**	**95.04**	**79.56**	**89.48**	**109.88**	117.68
Net SW (MGD)	SW	**-99.01**	**-111.28**	**-112.16**	**-40.49**	**-55.48**	**-38.98**	**-17.10**	**-14.62**	**-21.69**	**-9.96**	**-23.93**	**-44.78**	**-49.12**


03160111-Locust Fork
2040 FINAL DATA
Million Gallons per Day
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-20.00
-40.00
-60.00
-80.00
-100.00
-120.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160112-Upper Black Warrior





Area in AL (Square Miles)	1,245.0
Estimated Population (2040)	293,958
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.71	0.73	0.74	0.66	0.72	0.60	0.60	0.79	0.87	0.63	0.54	0.49	0.67
Public Supply	SW	33.05	29.15	29.02	34.14	34.55	36.23	40.27	41.99	41.94	37.92	32.65	30.51	35.12
Industrial/Mining/ Thermoelectric	GW	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72
Industrial/Mining/ Thermoelectric	SW	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Agriculture	GW	0.09	0.10	0.13	0.22	0.31	0.46	0.51	0.39	0.29	0.21	0.12	0.10	0.24
Agriculture	SW	0.29	0.41	1.04	2.63	3.41	4.58	5.49	4.90	4.60	3.08	1.26	0.42	2.68
Total	**SW**	**34.44**	**30.66**	**31.15**	**37.87**	**39.05**	**41.91**	**46.86**	**47.98**	**47.63**	**42.10**	**35.00**	**32.02**	**38.89**
Total	**GW**	**3.52**	**3.56**	**3.59**	**3.60**	**3.75**	**3.78**	**3.83**	**3.90**	**3.88**	**3.56**	**3.38**	**3.31**	**3.64**

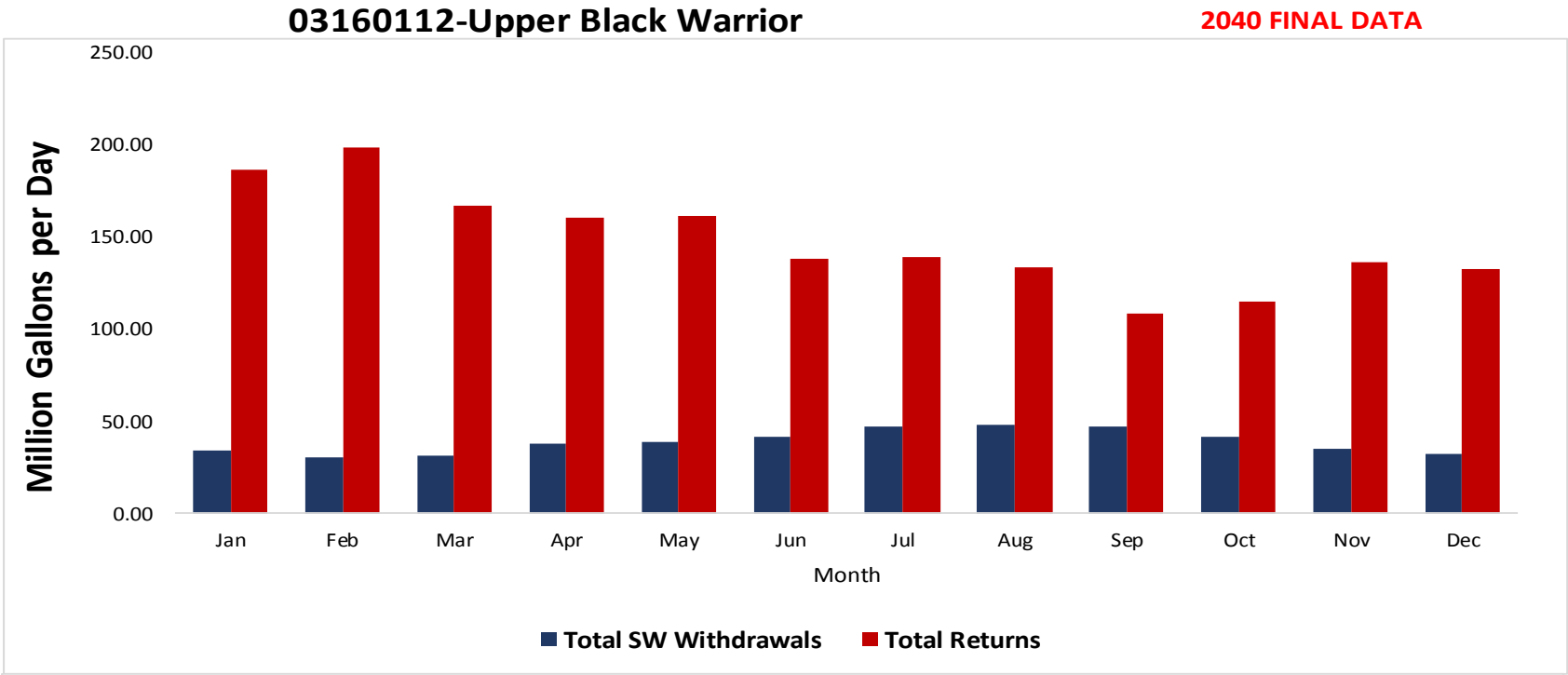
Returns (MGD)

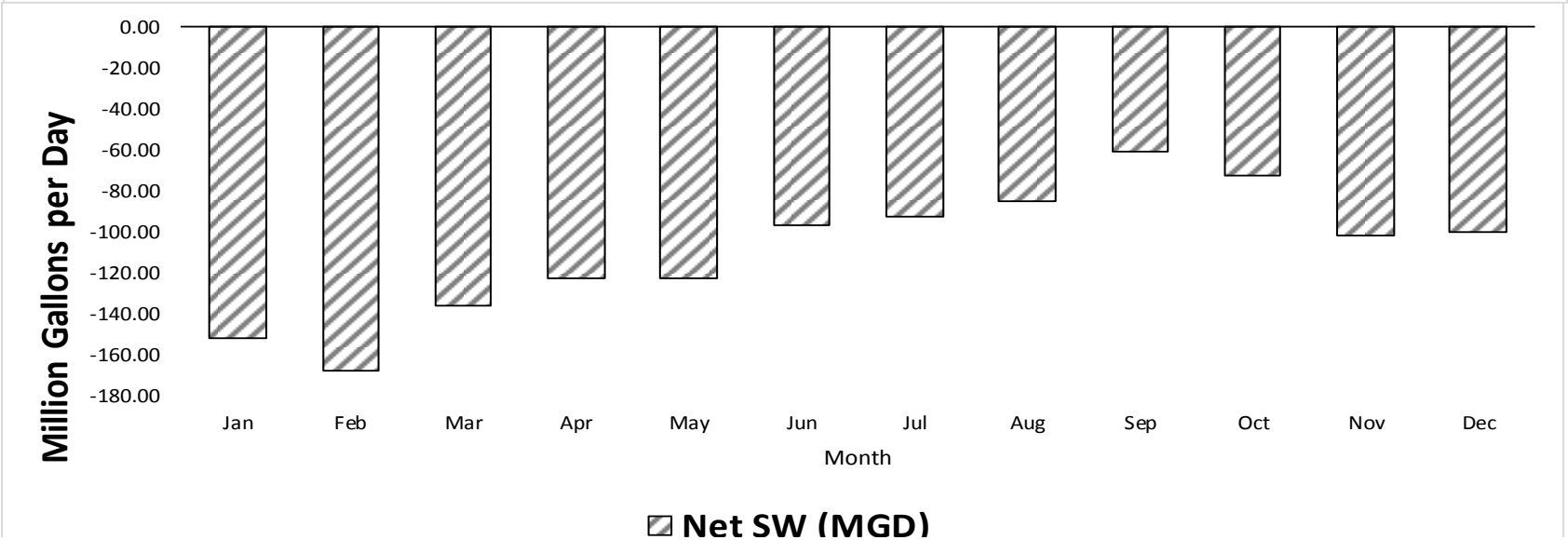
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		90.69	102.41	101.65	80.92	77.09	57.08	51.59	52.40	45.76	44.21	48.95	51.38	67.01
Industrial/Mining/ Thermoelectric		95.48	95.73	65.37	79.44	84.82	81.47	87.76	80.82	62.87	70.37	87.72	81.21	81.09
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**186.17**	**198.15**	**167.02**	**160.36**	**161.91**	**138.55**	**139.35**	**133.22**	**108.64**	**114.59**	**136.67**	**132.58**	**148.10**

03160112-Upper Black Warrior

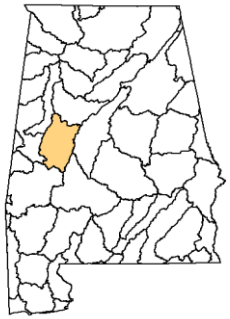
2040 FINAL DATA

Total SW Withdrawals	SW	34.44	30.66	31.15	37.87	39.05	41.91	46.86	47.98	47.63	42.10	35.00	32.02	38.89
Total GW Withdrawals	SW	3.52	3.56	3.59	3.60	3.75	3.78	3.83	3.90	3.88	3.56	3.38	3.31	3.64
Withdrawal Total		37.96	34.22	34.74	41.46	42.81	45.69	50.69	51.89	51.51	45.66	38.39	35.33	42.53
Total Returns		**186.17**	**198.15**	**167.02**	**160.36**	**161.91**	**138.55**	**139.35**	**133.22**	**108.64**	**114.59**	**136.67**	**132.58**	148.10
Net SW (MGD)	SW	**-151.73**	**-167.49**	**-135.86**	**-122.49**	**-122.86**	**-96.64**	**-92.49**	**-85.23**	**-61.01**	**-72.49**	**-101.67**	**-100.56**	**-109.21**


03160112-Upper Black Warrior
2040 FINAL DATA
Million Gallons per Day
250.00
200.00
150.00
100.00
50.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-20.00
-40.00
-60.00
-80.00
-100.00
-120.00
-140.00
-160.00
-180.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160113-Lower Black Warrior



Area in AL (Square Miles)	1,452.0
Estimated Population (2040)	136,929
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	5.77	4.29	4.44	4.25	4.43	4.65	4.64	5.26	5.72	5.09	4.66	5.10	4.86
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	1.04	1.02	1.00	1.05	1.04	1.12	1.10	1.10	1.10	1.00	1.00	1.01	1.05
Industrial/Mining/ Thermoelectric	SW	639.61	631.22	566.40	409.12	643.49	634.46	636.35	637.46	441.45	461.91	321.59	586.57	550.80
Agriculture	GW	0.52	0.72	1.11	2.43	3.83	6.18	6.97	5.18	3.52	2.43	1.02	0.61	2.88
Agriculture	SW	22.44	22.81	23.61	26.19	28.76	33.03	34.58	31.37	28.46	26.27	23.49	22.62	26.97
Total	**SW**	**662.05**	**654.03**	**590.01**	**435.31**	**672.25**	**667.49**	**670.92**	**668.83**	**469.91**	**488.18**	**345.08**	**609.19**	**577.77**
Total	**GW**	**7.32**	**6.03**	**6.56**	**7.73**	**9.30**	**11.94**	**12.71**	**11.54**	**10.35**	**8.52**	**6.68**	**6.72**	**8.78**

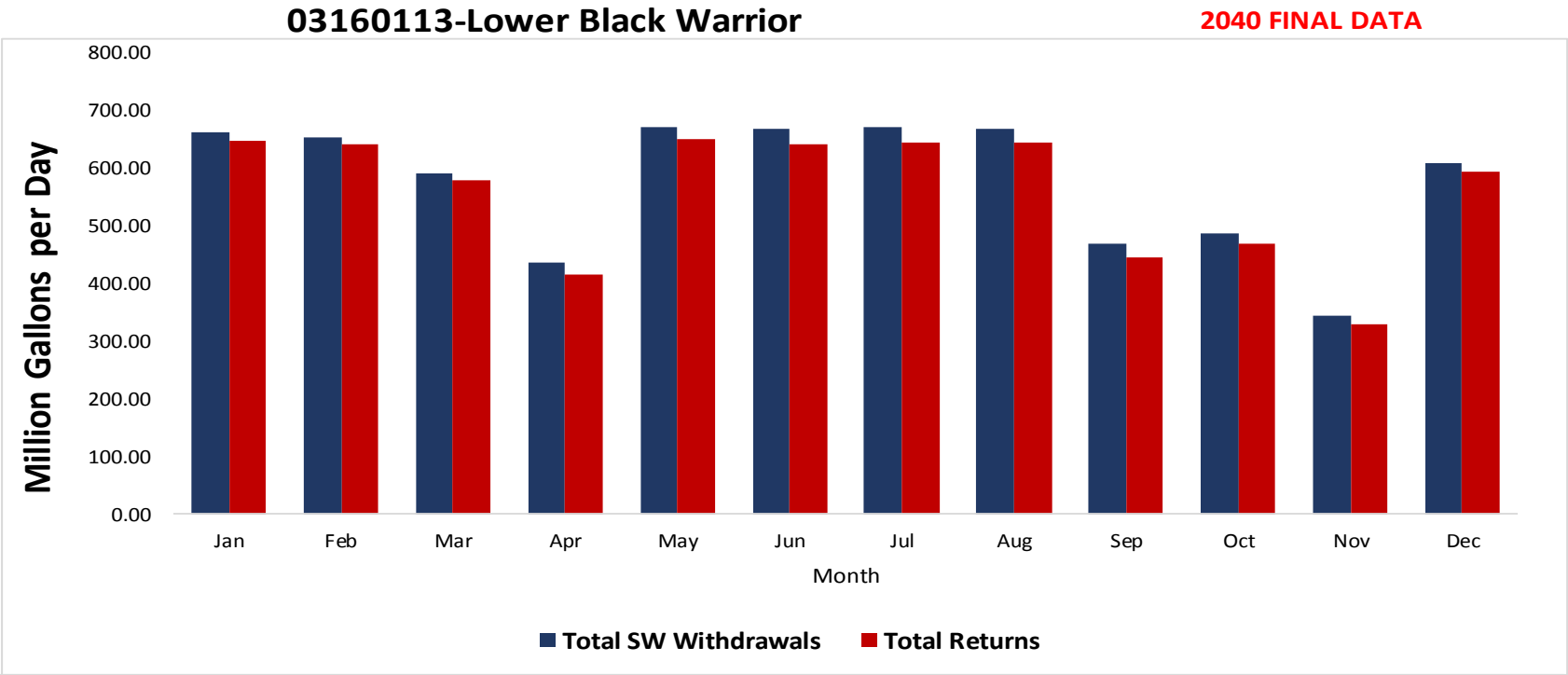
Returns (MGD)

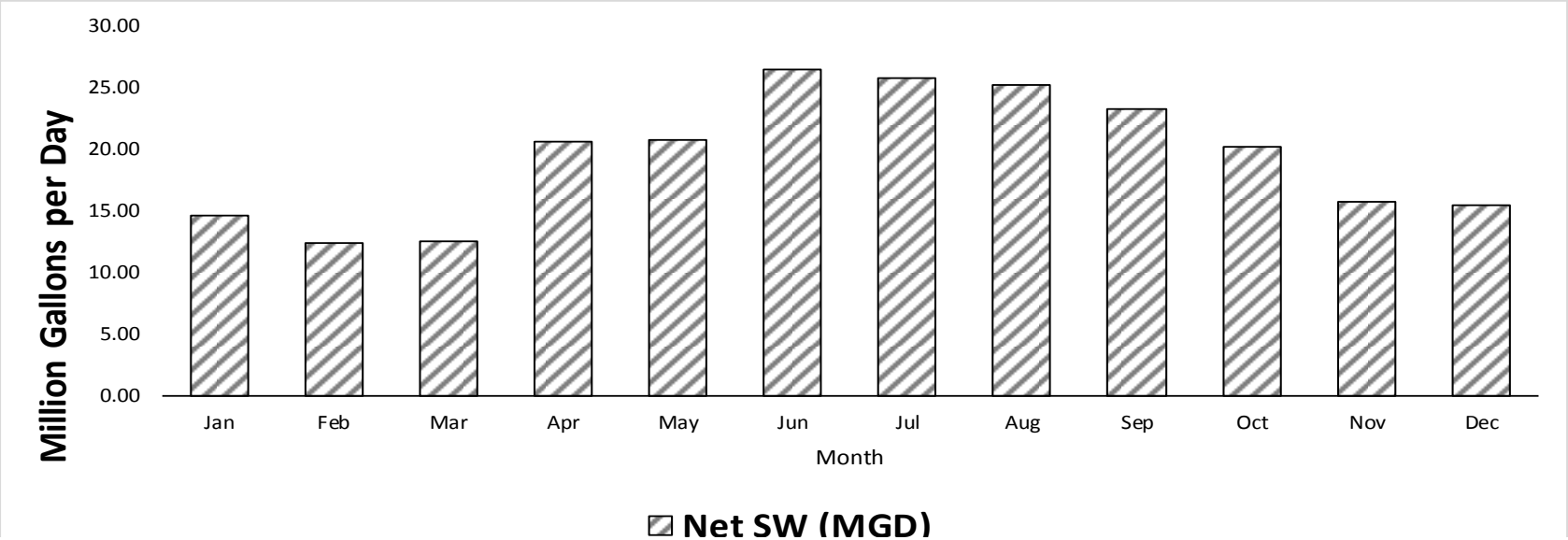
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		6.13	8.59	7.58	6.29	6.57	5.10	5.43	4.43	4.33	4.34	5.50	4.96	5.77
Industrial/Mining/ Thermoelectric		641.29	633.17	569.97	408.43	645.02	635.98	639.79	639.21	442.44	463.71	323.91	588.86	552.65
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**647.43**	**641.76**	**577.55**	**414.72**	**651.58**	**641.08**	**645.22**	**643.64**	**446.76**	**468.05**	**329.41**	**593.82**	**558.42**

03160113-Lower Black Warrior

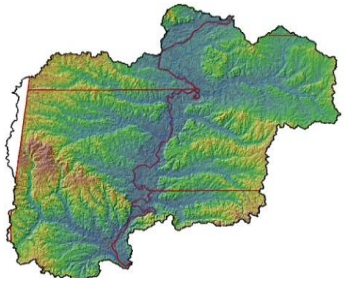
2040 FINAL DATA

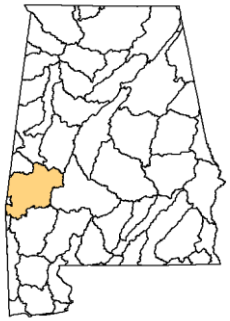
Total SW Withdrawals	SW	662.05	654.03	590.01	435.31	672.25	667.49	670.92	668.83	469.91	488.18	345.08	609.19	577.77
Total GW Withdrawals	SW	7.32	6.03	6.56	7.73	9.30	11.94	12.71	11.54	10.35	8.52	6.68	6.72	8.78
Withdrawal Total		669.37	660.06	596.56	443.04	681.55	679.43	683.63	680.37	480.26	496.70	351.76	615.92	586.55
Total Returns		**647.43**	**641.76**	**577.55**	**414.72**	**651.58**	**641.08**	**645.22**	**643.64**	**446.76**	**468.05**	**329.41**	**593.82**	558.42
Net SW (MGD)	SW	**14.62**	**12.27**	**12.46**	**20.59**	**20.67**	**26.41**	**25.70**	**25.19**	**23.14**	**20.13**	**15.67**	**15.38**	**19.35**


03160113-Lower Black Warrior
2040 FINAL DATA
Million Gallons per Day
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160201-Middle Tombigbee-Chickasaw





Area in AL (Square Miles)	2,042.7
Estimated Population (2040)	28,168
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.65	3.24	3.38	3.05	3.16	3.22	3.12	3.18	2.63	2.65	2.48	2.94	3.06
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Industrial/Mining/ Thermoelectric	SW	49.78	39.27	48.65	51.60	49.02	47.71	44.29	45.70	46.51	48.63	50.41	50.91	47.71
Agriculture	GW	0.20	0.24	0.32	0.58	0.85	1.30	1.45	1.11	0.79	0.57	0.30	0.22	0.66
Agriculture	SW	2.17	2.19	2.37	2.81	2.99	3.25	3.50	3.40	3.38	2.96	2.45	2.20	2.81
Total	**SW**	**51.94**	**41.46**	**51.03**	**54.41**	**52.02**	**50.96**	**47.79**	**49.09**	**49.89**	**51.59**	**52.86**	**53.11**	**50.51**
Total	**GW**	**4.22**	**3.84**	**4.06**	**3.99**	**4.37**	**4.88**	**4.94**	**4.65**	**3.77**	**3.58**	**3.14**	**3.52**	**4.08**

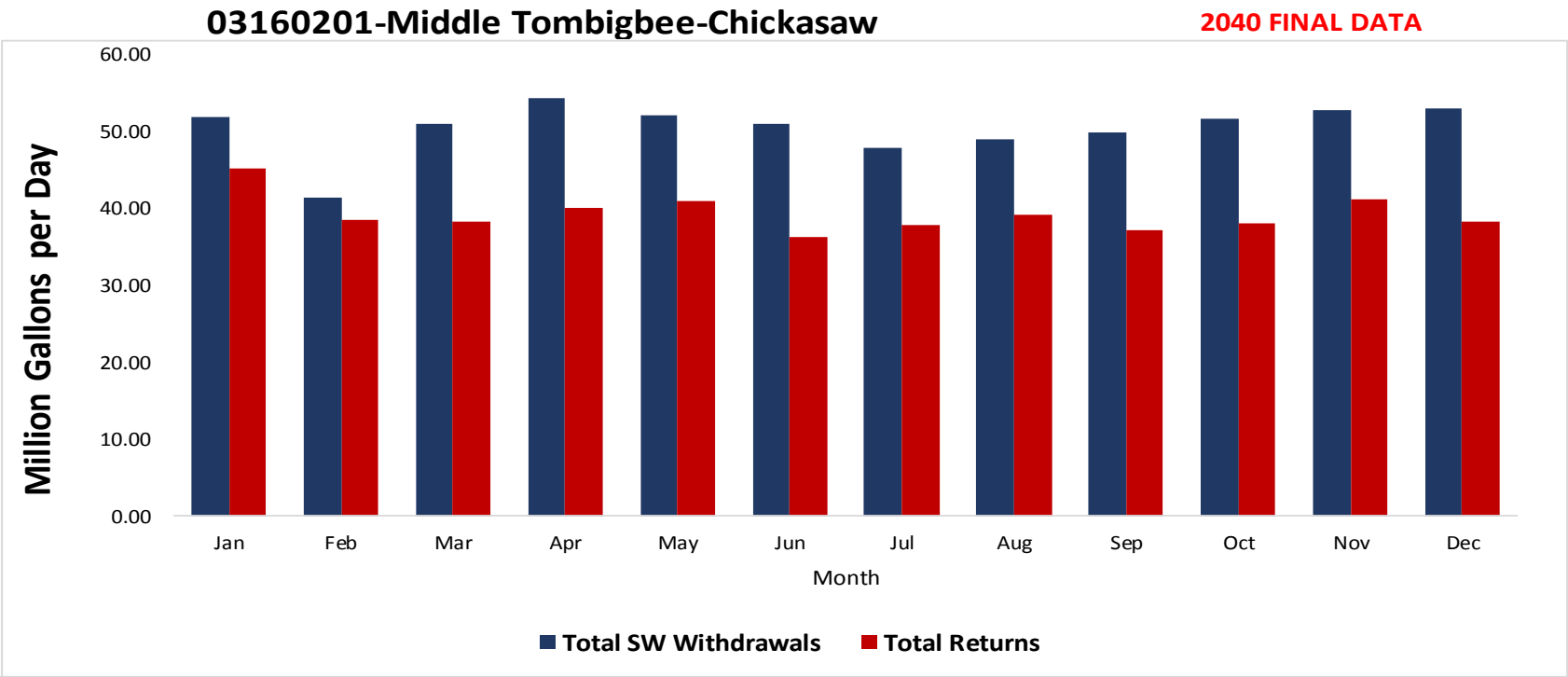
Returns (MGD)

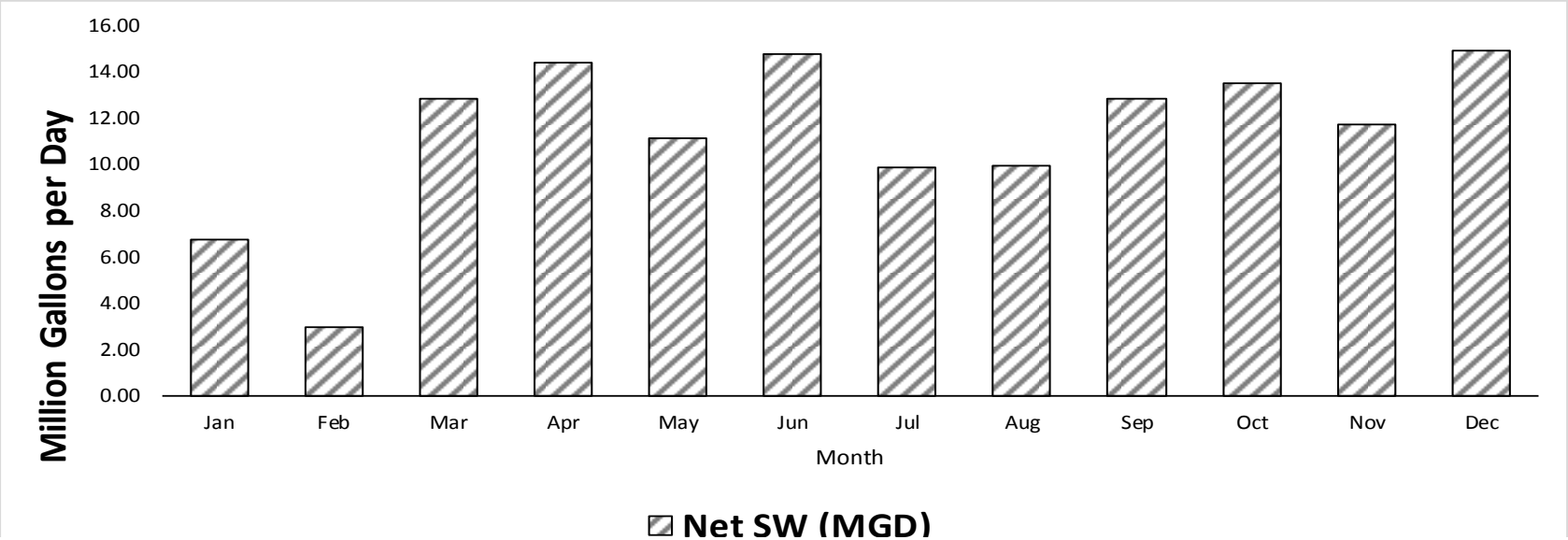
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.26	3.56	2.59	1.45	1.75	1.23	1.33	1.43	0.87	0.88	2.77	1.63	1.89
Industrial/Mining/ Thermoelectric		41.95	34.95	35.64	38.56	39.12	35.02	36.63	37.72	36.24	37.23	38.42	36.62	37.34
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**45.21**	**38.51**	**38.23**	**40.01**	**40.87**	**36.25**	**37.95**	**39.15**	**37.10**	**38.11**	**41.19**	**38.25**	**39.24**

03160201-Middle Tombigbee-Chickasaw

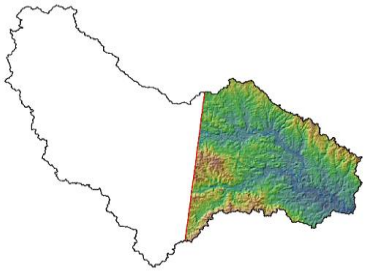
2040 FINAL DATA

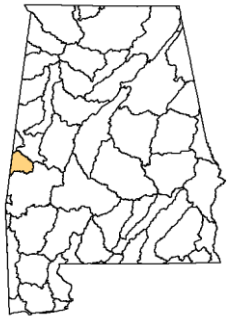
Total SW Withdrawals	SW	51.94	41.46	51.03	54.41	52.02	50.96	47.79	49.09	49.89	51.59	52.86	53.11	50.51
Total GW Withdrawals	SW	4.22	3.84	4.06	3.99	4.37	4.88	4.94	4.65	3.77	3.58	3.14	3.52	4.08
Withdrawal Total		56.16	45.30	55.08	58.40	56.39	55.84	52.72	53.74	53.66	55.17	56.01	56.63	54.59
Total Returns		**45.21**	**38.51**	**38.23**	**40.01**	**40.87**	**36.25**	**37.95**	**39.15**	**37.10**	**38.11**	**41.19**	**38.25**	39.24
Net SW (MGD)	SW	**6.73**	**2.95**	**12.80**	**14.40**	**11.15**	**14.71**	**9.84**	**9.95**	**12.79**	**13.48**	**11.67**	**14.87**	**11.28**


03160201-Middle Tombigbee-Chickasaw
2040 FINAL DATA
Million Gallons per Day
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160202-Sucarnoochee





Area in AL (Square Miles)	382.5
Estimated Population (2040)	5,656
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.05	0.06	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.05
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Industrial/Mining/ Thermoelectric	SW	2.52	2.52	2.52	2.52	2.52	2.68	2.68	2.68	2.68	2.68	2.68	2.52	2.60
Agriculture	GW	0.05	0.05	0.06	0.10	0.14	0.20	0.22	0.18	0.13	0.10	0.06	0.05	0.11
Agriculture	SW	0.60	0.61	0.64	0.74	0.78	0.84	0.89	0.87	0.87	0.77	0.66	0.61	0.74
Total	**SW**	**3.12**	**3.13**	**3.17**	**3.26**	**3.30**	**3.52**	**3.57**	**3.55**	**3.55**	**3.45**	**3.34**	**3.13**	**3.34**
Total	**GW**	**0.43**	**0.44**	**0.47**	**0.48**	**0.51**	**0.58**	**0.61**	**0.56**	**0.51**	**0.47**	**0.43**	**0.43**	**0.49**

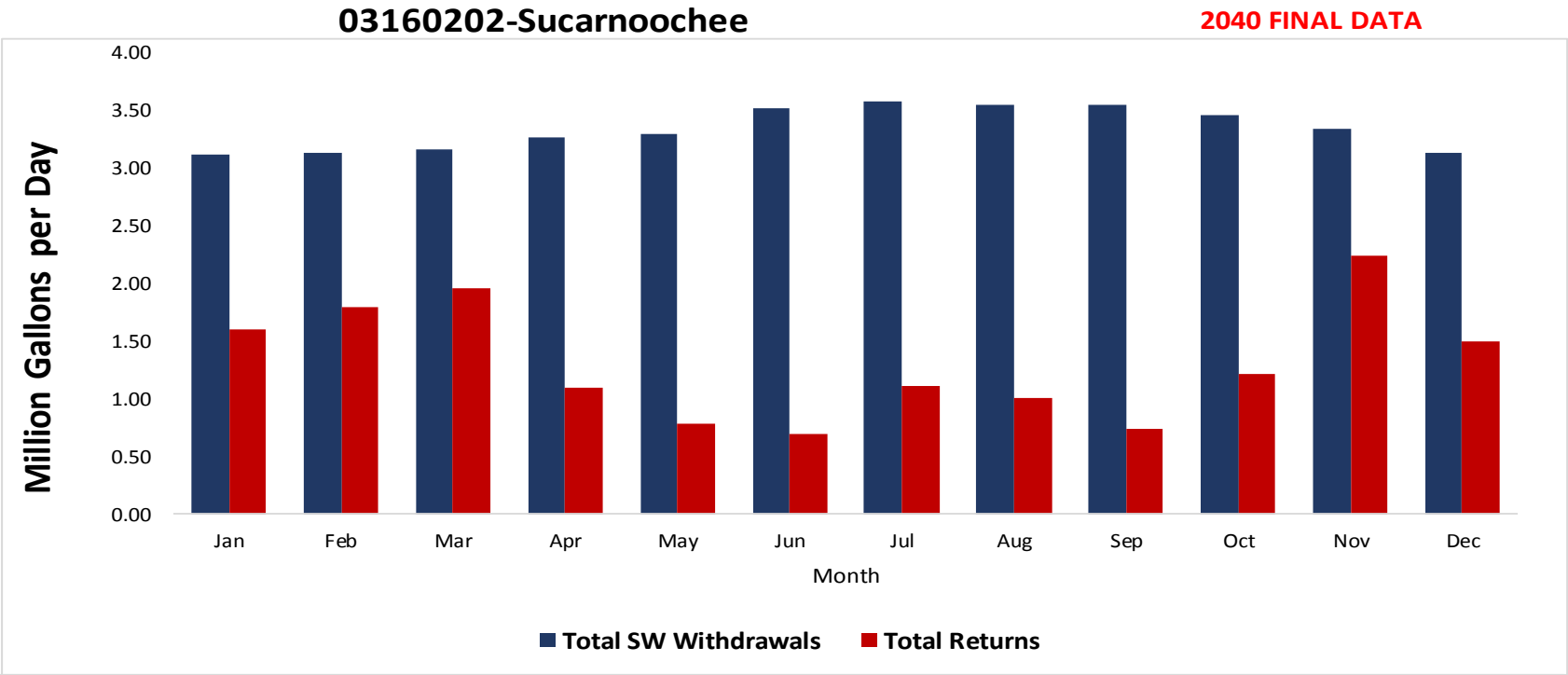
Returns (MGD)

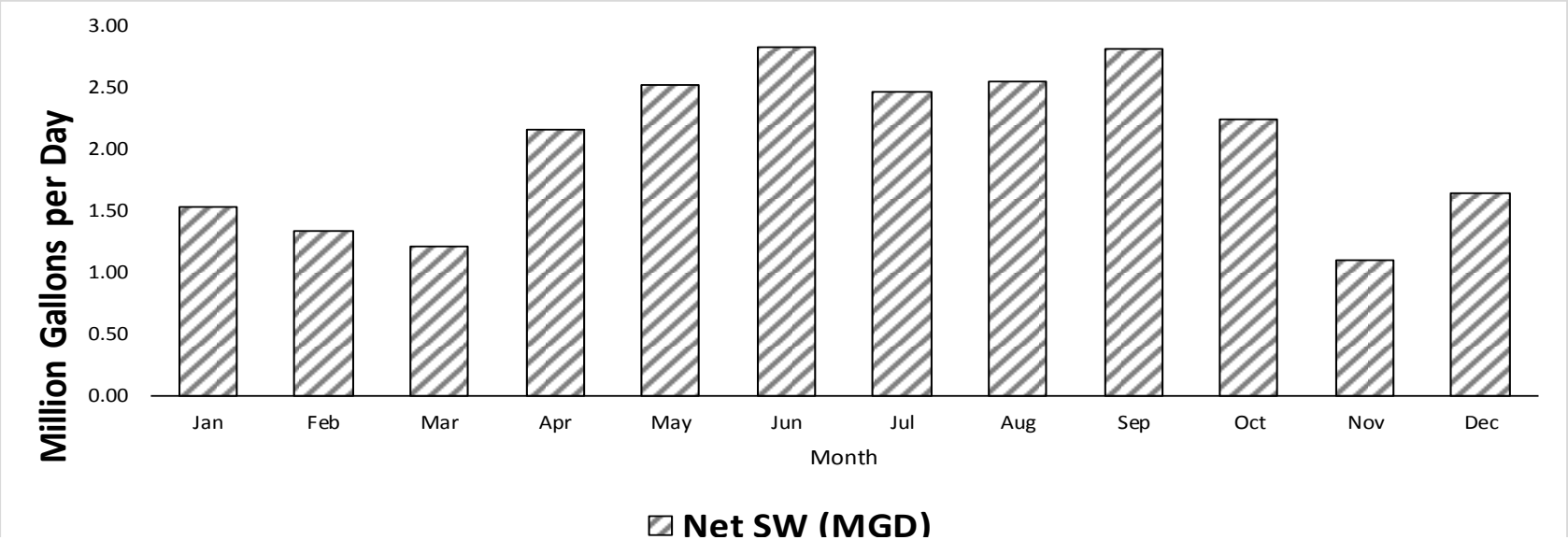
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.60	1.67	1.81	0.94	0.60	0.49	0.76	0.97	0.53	0.44	0.82	0.87	0.96
Industrial/Mining/ Thermoelectric		0.00	0.13	0.15	0.16	0.18	0.21	0.35	0.04	0.21	0.78	1.43	0.63	0.36
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.60**	**1.79**	**1.96**	**1.10**	**0.78**	**0.70**	**1.11**	**1.01**	**0.74**	**1.22**	**2.25**	**1.49**	**1.31**

03160202-Sucarnoochee

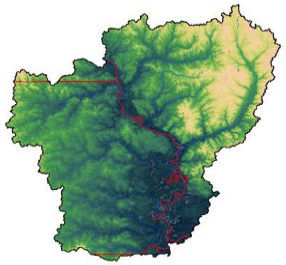
2040 FINAL DATA

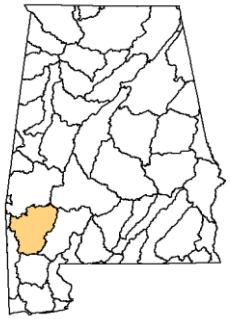
Total SW Withdrawals	SW	3.12	3.13	3.17	3.26	3.30	3.52	3.57	3.55	3.55	3.45	3.34	3.13	3.34
Total GW Withdrawals	SW	0.43	0.44	0.47	0.48	0.51	0.58	0.61	0.56	0.51	0.47	0.43	0.43	0.49
Withdrawal Total		3.55	3.57	3.64	3.74	3.82	4.10	4.18	4.11	4.06	3.92	3.77	3.55	3.83
Total Returns		**1.60**	**1.79**	**1.96**	**1.10**	**0.78**	**0.70**	**1.11**	**1.01**	**0.74**	**1.22**	**2.25**	**1.49**	1.31
Net SW (MGD)	SW	**1.52**	**1.34**	**1.20**	**2.16**	**2.52**	**2.82**	**2.46**	**2.54**	**2.81**	**2.23**	**1.09**	**1.63**	**2.03**


03160202-Sucarnoochee
2040 FINAL DATA
Million Gallons per Day
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160203-Lower Tombigbee





Area in AL (Square Miles)	1,615.0
Estimated Population (2040)	27,855
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	3.87	3.25	3.12	3.26	3.52	3.58	3.58	4.33	3.49	3.35	3.22	3.93	3.54
Public Supply	SW	2.95	2.43	2.12	2.16	2.26	2.54	2.42	2.31	2.39	2.24	2.01	2.41	2.35
Industrial/Mining/ Thermoelectric	GW	9.61	10.69	11.61	11.08	9.20	8.19	11.01	11.25	10.77	11.33	9.28	9.19	10.27
Industrial/Mining/ Thermoelectric	SW	145.32	143.77	144.66	147.05	146.70	146.15	145.82	145.21	138.81	134.46	117.80	145.16	141.74
Agriculture	GW	0.15	0.18	0.25	0.48	0.72	1.13	1.27	0.96	0.67	0.48	0.23	0.16	0.56
Agriculture	SW	0.23	0.23	0.24	0.27	0.30	0.35	0.37	0.33	0.31	0.28	0.24	0.23	0.28
Total	**SW**	**148.50**	**146.43**	**147.03**	**149.48**	**149.27**	**149.04**	**148.61**	**147.85**	**141.50**	**136.99**	**120.05**	**147.80**	**144.38**
Total	**GW**	**13.63**	**14.12**	**14.98**	**14.82**	**13.45**	**12.91**	**15.86**	**16.55**	**14.93**	**15.16**	**12.73**	**13.28**	**14.37**

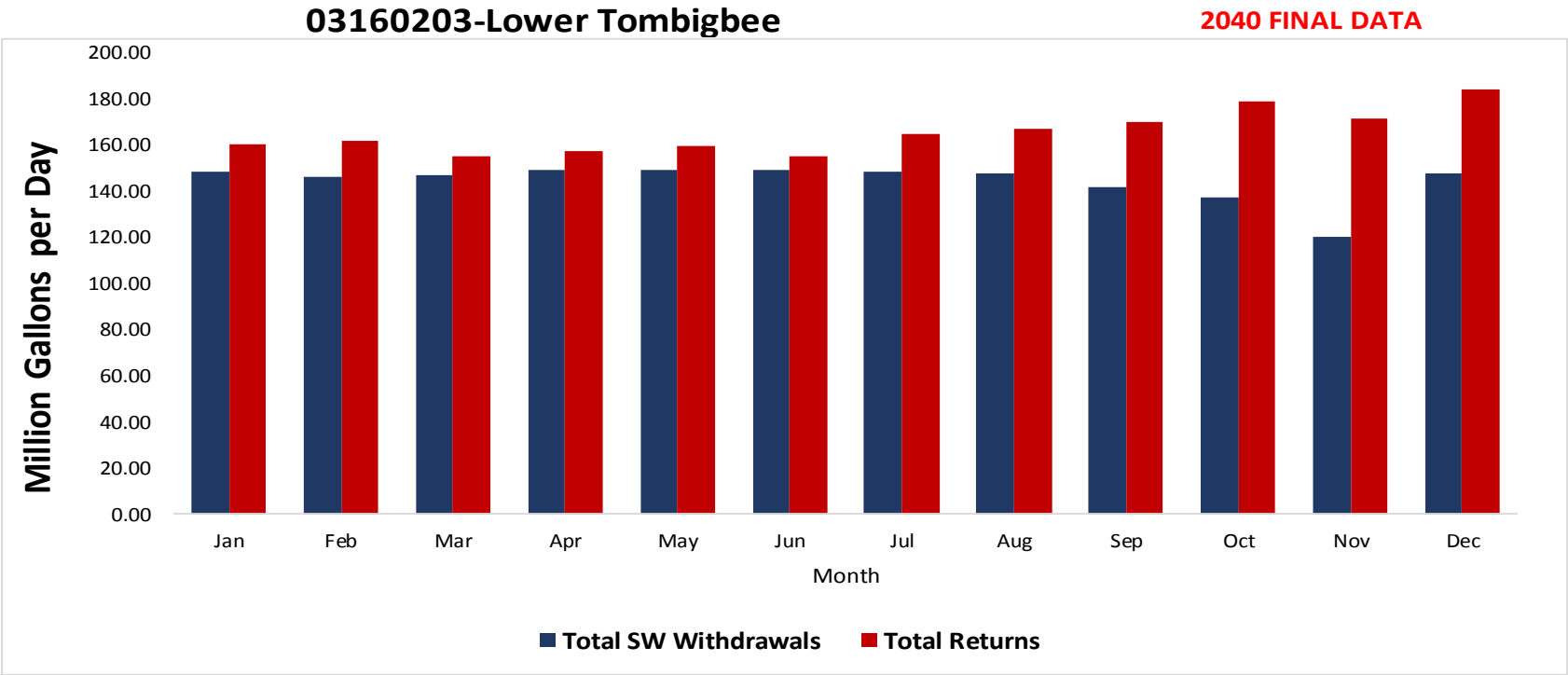
Returns (MGD)

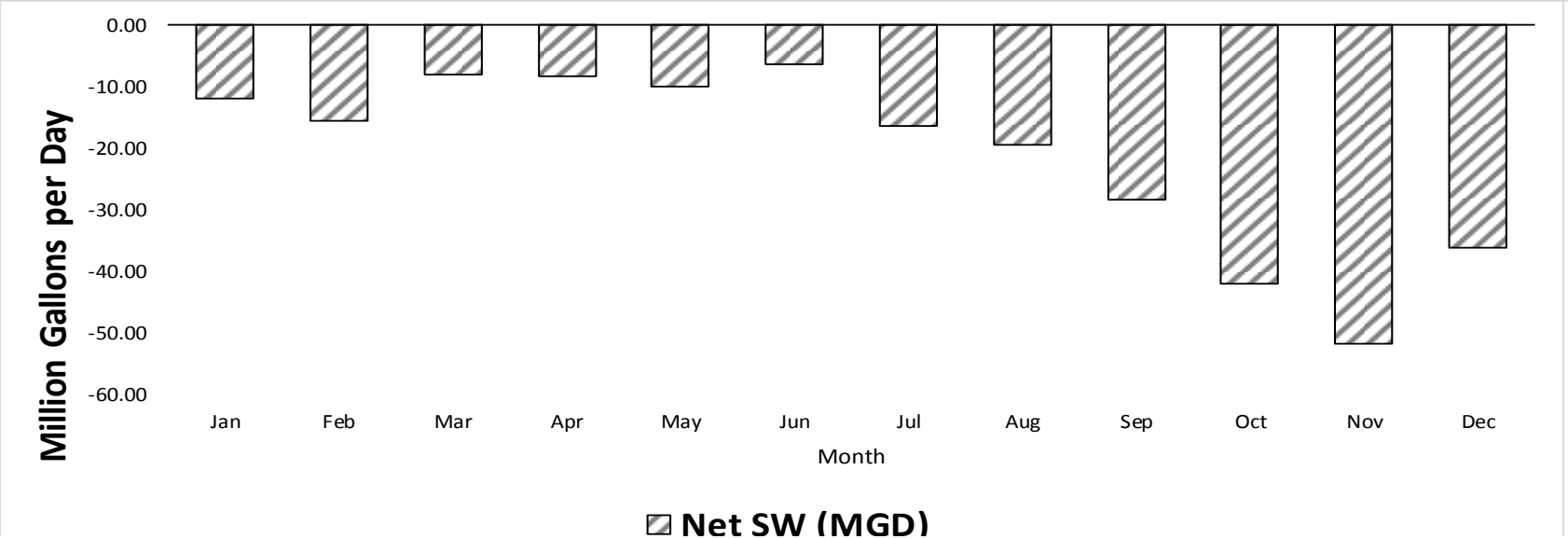
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.43	1.65	2.36	1.53	1.42	2.28	1.29	1.19	0.92	0.80	0.90	0.85	1.38
Industrial/Mining/ Thermoelectric		159.04	160.38	152.64	156.14	157.85	153.15	163.82	166.04	168.98	178.27	170.86	183.25	164.20
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**160.47**	**162.04**	**155.01**	**157.67**	**159.26**	**155.43**	**165.12**	**167.23**	**169.89**	**179.07**	**171.76**	**184.10**	**165.59**

03160203-Lower Tombigbee

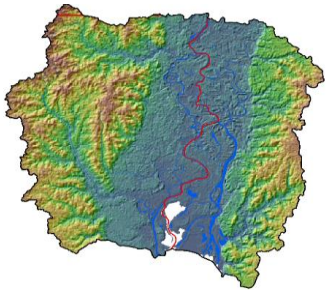
2040 FINAL DATA

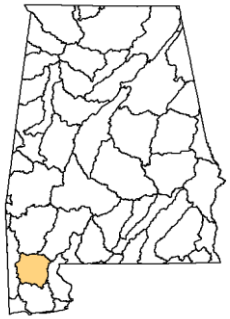
Total SW Withdrawals	SW	148.50	146.43	147.03	149.48	149.27	149.04	148.61	147.85	141.50	136.99	120.05	147.80	144.38
Total GW Withdrawals	SW	13.63	14.12	14.98	14.82	13.45	12.91	15.86	16.55	14.93	15.16	12.73	13.28	14.37
Withdrawal Total		162.13	160.55	162.01	164.31	162.72	161.95	164.47	164.40	156.43	152.14	132.78	161.08	158.75
Total Returns		**160.47**	**162.04**	**155.01**	**157.67**	**159.26**	**155.43**	**165.12**	**167.23**	**169.89**	**179.07**	**171.76**	**184.10**	165.59
Net SW (MGD)	SW	**-11.97**	**-15.60**	**-7.98**	**-8.19**	**-10.00**	**-6.39**	**-16.51**	**-19.38**	**-28.39**	**-42.09**	**-51.71**	**-36.30**	**-21.21**


03160203-Lower Tombigbee
2040 FINAL DATA
Million Gallons per Day
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160204-Mobile-Tensaw





Area in AL (Square Miles)	912.0
Estimated Population (2040)	147,986
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	10.05	9.02	8.84	10.26	10.63	10.69	10.43	10.02	10.40	11.13	8.46	8.71	9.89
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	7.43	8.11	8.17	7.73	8.24	7.34	8.93	7.50	7.41	7.57	7.39	7.46	7.77
Industrial/Mining/ Thermoelectric	SW	1543.30	1792.21	1625.99	1406.99	1358.36	1751.49	1757.71	1814.81	1399.91	1011.94	1514.18	1502.40	1539.94
Agriculture	GW	0.20	0.27	0.42	0.93	1.46	2.35	2.66	1.97	1.34	0.92	0.39	0.23	1.10
Agriculture	SW	0.38	0.45	0.84	1.82	2.26	2.91	3.46	3.17	3.06	2.12	0.99	0.46	1.83
Total	**SW**	**1543.68**	**1792.66**	**1626.83**	**1408.81**	**1360.62**	**1754.40**	**1761.17**	**1817.98**	**1402.97**	**1014.06**	**1515.17**	**1502.86**	**1541.77**
Total	**GW**	**17.68**	**17.41**	**17.43**	**18.92**	**20.33**	**20.38**	**22.01**	**19.49**	**19.16**	**19.63**	**16.24**	**16.41**	**18.76**

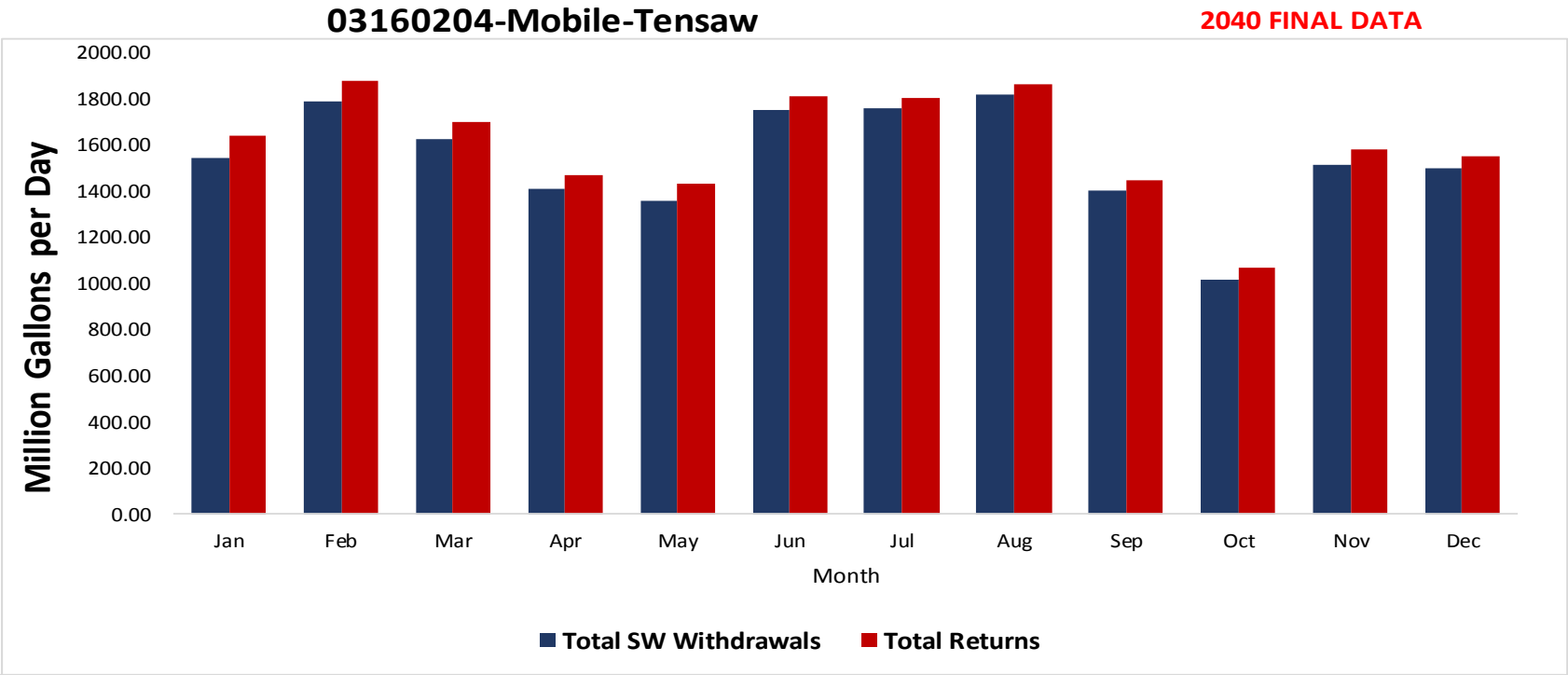
Returns (MGD)

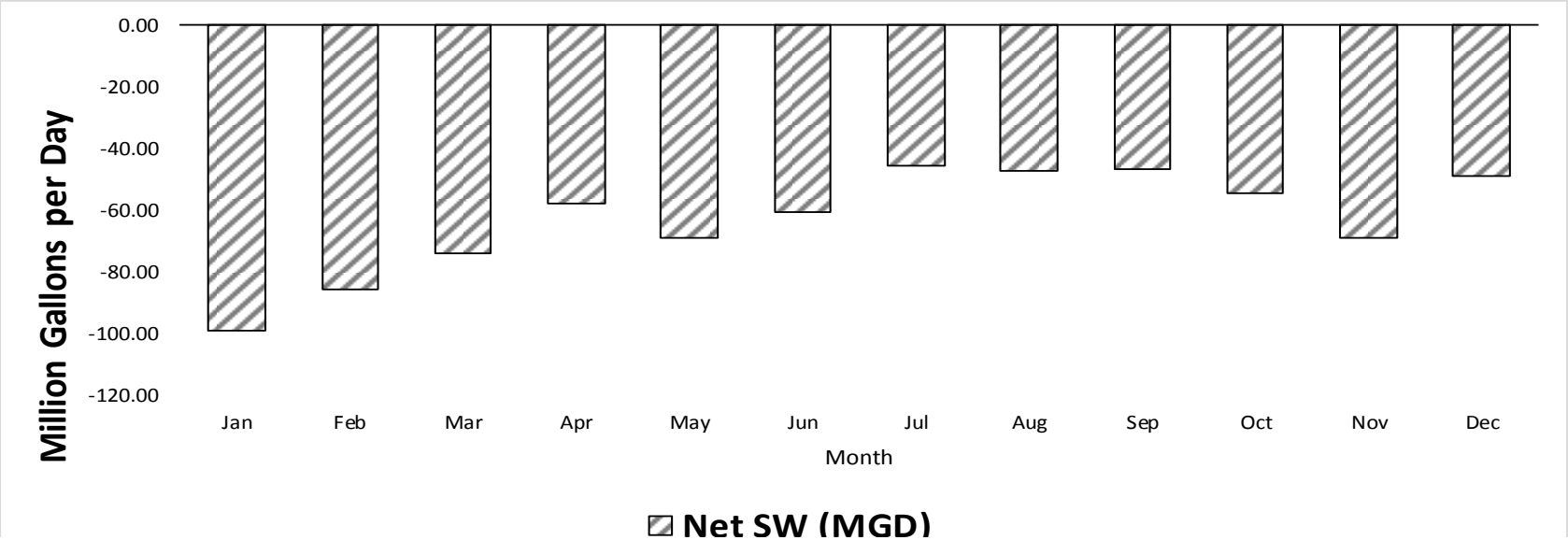
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		63.59	63.92	52.72	38.58	47.47	44.11	37.30	47.76	38.13	33.38	40.98	38.84	45.56
Industrial/Mining/ Thermoelectric		1579.25	1814.64	1647.92	1428.08	1382.30	1770.90	1769.47	1817.59	1411.57	1035.00	1543.31	1512.77	1559.40
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1642.84**	**1878.55**	**1700.64**	**1466.66**	**1429.77**	**1815.00**	**1806.77**	**1865.34**	**1449.70**	**1068.38**	**1584.29**	**1551.61**	**1604.96**

03160204-Mobile-Tensaw

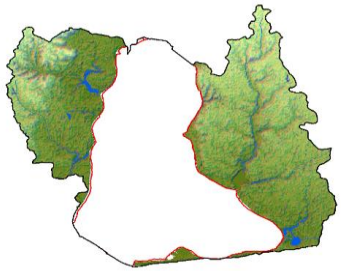
2040 FINAL DATA

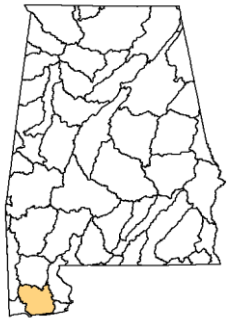
Total SW Withdrawals	SW	1543.68	1792.66	1626.83	1408.81	1360.62	1754.40	1761.17	1817.98	1402.97	1014.06	1515.17	1502.86	1541.77
Total GW Withdrawals	SW	17.68	17.41	17.43	18.92	20.33	20.38	22.01	19.49	19.16	19.63	16.24	16.41	18.76
Withdrawal Total		1561.36	1810.07	1644.26	1427.73	1380.95	1774.78	1783.18	1837.48	1422.13	1033.69	1531.41	1519.26	1560.52
Total Returns		**1642.84**	**1878.55**	**1700.64**	**1466.66**	**1429.77**	**1815.00**	**1806.77**	**1865.34**	**1449.70**	**1068.38**	**1584.29**	**1551.61**	1604.96
Net SW (MGD)	SW	**-99.16**	**-85.89**	**-73.81**	**-57.85**	**-69.15**	**-60.60**	**-45.60**	**-47.36**	**-46.72**	**-54.32**	**-69.12**	**-48.75**	**-63.19**


03160204-Mobile-Tensaw
2040 FINAL DATA
Million Gallons per Day
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-20.00
-40.00
-60.00
-80.00
-100.00
-120.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03160205-Mobile Bay





Area in AL (Square Miles)	872.0
Estimated Population (2040)	245,682
Subregion:	Mobile-Tombigbee

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	14.60	12.83	13.39	16.39	16.29	16.28	17.09	17.16	17.82	17.16	13.62	12.46	15.42
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	5.33	4.42	3.35	4.18	4.51	4.40	4.21	4.31	4.59	4.46	4.28	4.44	4.37
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	5.24	8.15	13.96	33.38	53.94	88.46	100.14	73.75	49.44	33.30	12.57	6.59	39.91
Agriculture	SW	1.06	1.63	3.45	8.64	12.52	18.78	21.81	17.58	14.10	9.44	3.68	1.45	9.51
Total	**SW**	**1.06**	**1.63**	**3.45**	**8.64**	**12.52**	**18.78**	**21.81**	**17.58**	**14.10**	**9.44**	**3.68**	**1.45**	**9.51**
Total	**GW**	**25.16**	**25.39**	**30.70**	**53.94**	**74.74**	**109.14**	**121.44**	**95.23**	**71.85**	**54.92**	**30.47**	**23.49**	**59.71**

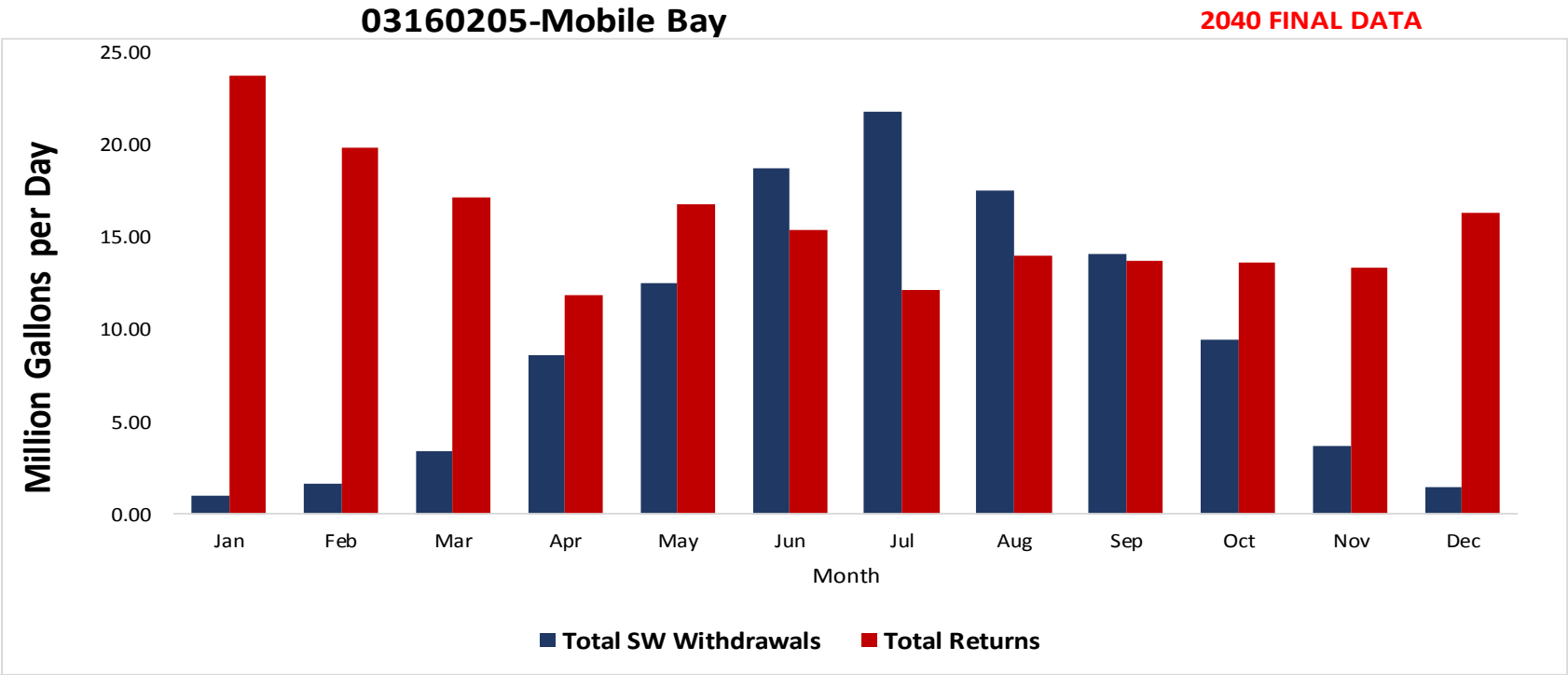
Returns (MGD)

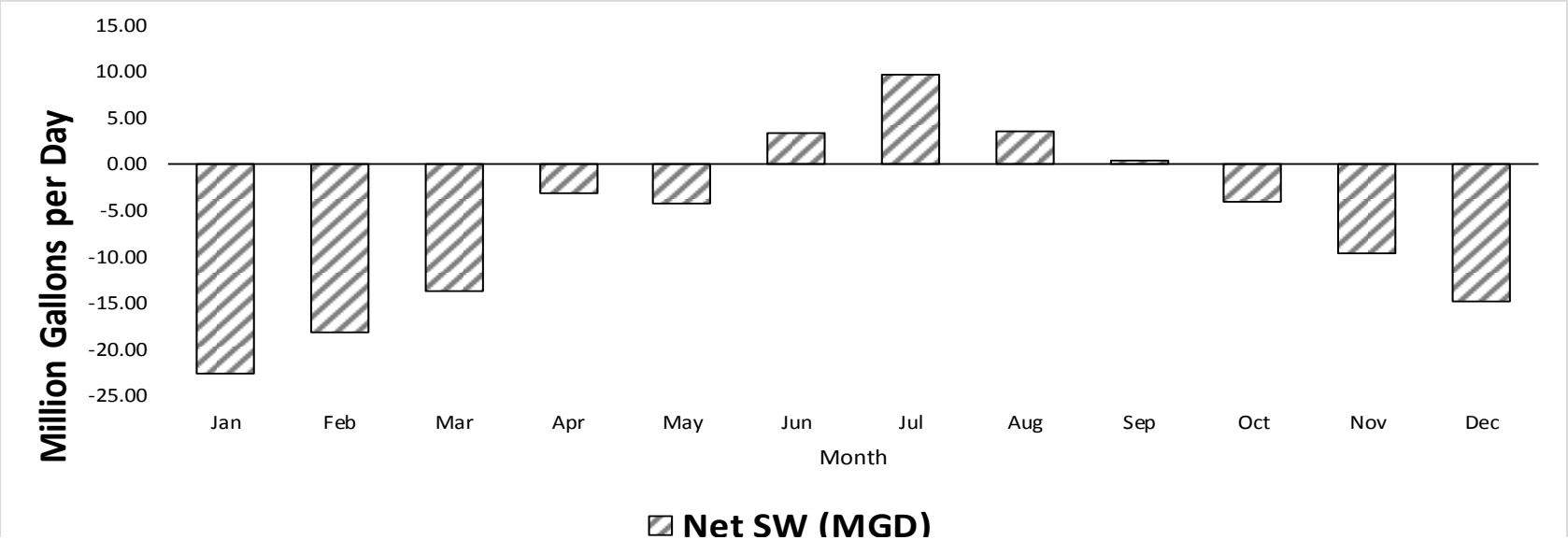
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.47	3.65	3.30	2.68	2.82	2.99	2.73	3.09	2.75	2.64	2.73	2.68	2.96
Industrial/Mining/ Thermoelectric		20.27	16.23	13.84	9.19	14.01	12.44	9.45	10.94	10.96	10.95	10.66	13.66	12.72
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**23.74**	**19.88**	**17.14**	**11.86**	**16.84**	**15.43**	**12.18**	**14.02**	**13.71**	**13.60**	**13.38**	**16.34**	**15.68**

03160205-Mobile Bay

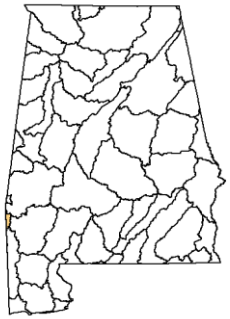
2040 FINAL DATA

Total SW Withdrawals	SW	1.06	1.63	3.45	8.64	12.52	18.78	21.81	17.58	14.10	9.44	3.68	1.45	9.51
Total GW Withdrawals	SW	25.16	25.39	30.70	53.94	74.74	109.14	121.44	95.23	71.85	54.92	30.47	23.49	59.71
Withdrawal Total		26.23	27.02	34.15	62.58	87.26	127.92	143.25	112.81	85.95	64.36	34.15	24.93	69.22
Total Returns		**23.74**	**19.88**	**17.14**	**11.86**	**16.84**	**15.43**	**12.18**	**14.02**	**13.71**	**13.60**	**13.38**	**16.34**	15.68
Net SW (MGD)	SW	**-22.67**	**-18.26**	**-13.69**	**-3.22**	**-4.31**	**3.35**	**9.63**	**3.55**	**0.39**	**-4.15**	**-9.70**	**-14.89**	**-6.17**


03160205-Mobile Bay
2040 FINAL DATA
Million Gallons per Day
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03170002-Upper Chickasawhay



Area in AL (Square Miles)	65.1
Estimated Population (2040)	873
Subregion:	Pascagoula

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	**SW**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
Total	**GW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

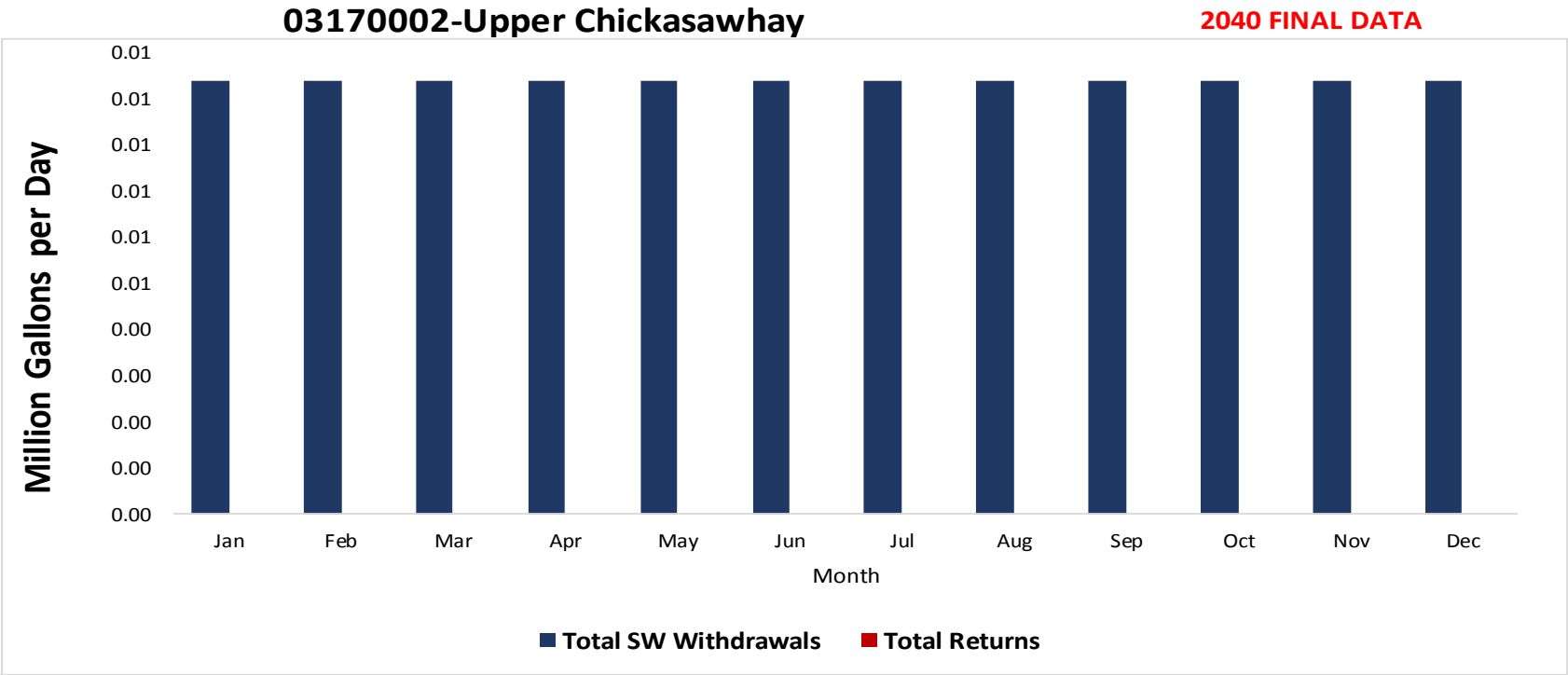
Returns (MGD)

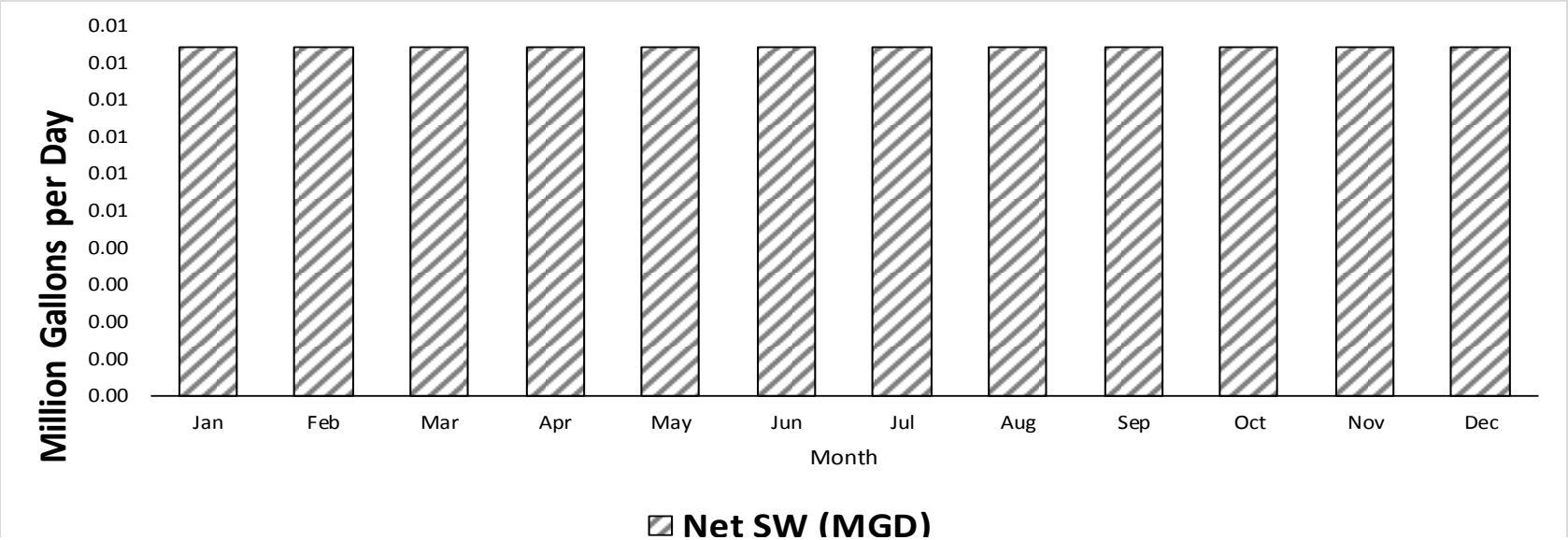
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

03170002-Upper Chickasawhay

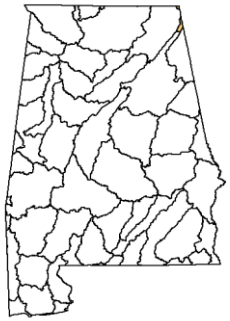
2040 FINAL DATA

Total SW Withdrawals	SW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total GW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Withdrawal Total		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**


03170002-Upper Chickasawhay
2040 FINAL DATA
Million Gallons per Day
0.01
0.01
0.01
0.01
0.01
0.01
0.00
0.00
0.00
0.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.01
0.01
0.01
0.01
0.01
0.01
0.00
0.00
0.00
0.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03170003-Lower Chickasawhay



Area in AL (Square Miles)	0.7
Estimated Population (2040)	5
Subregion:	Pascagoula

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**SW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**GW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

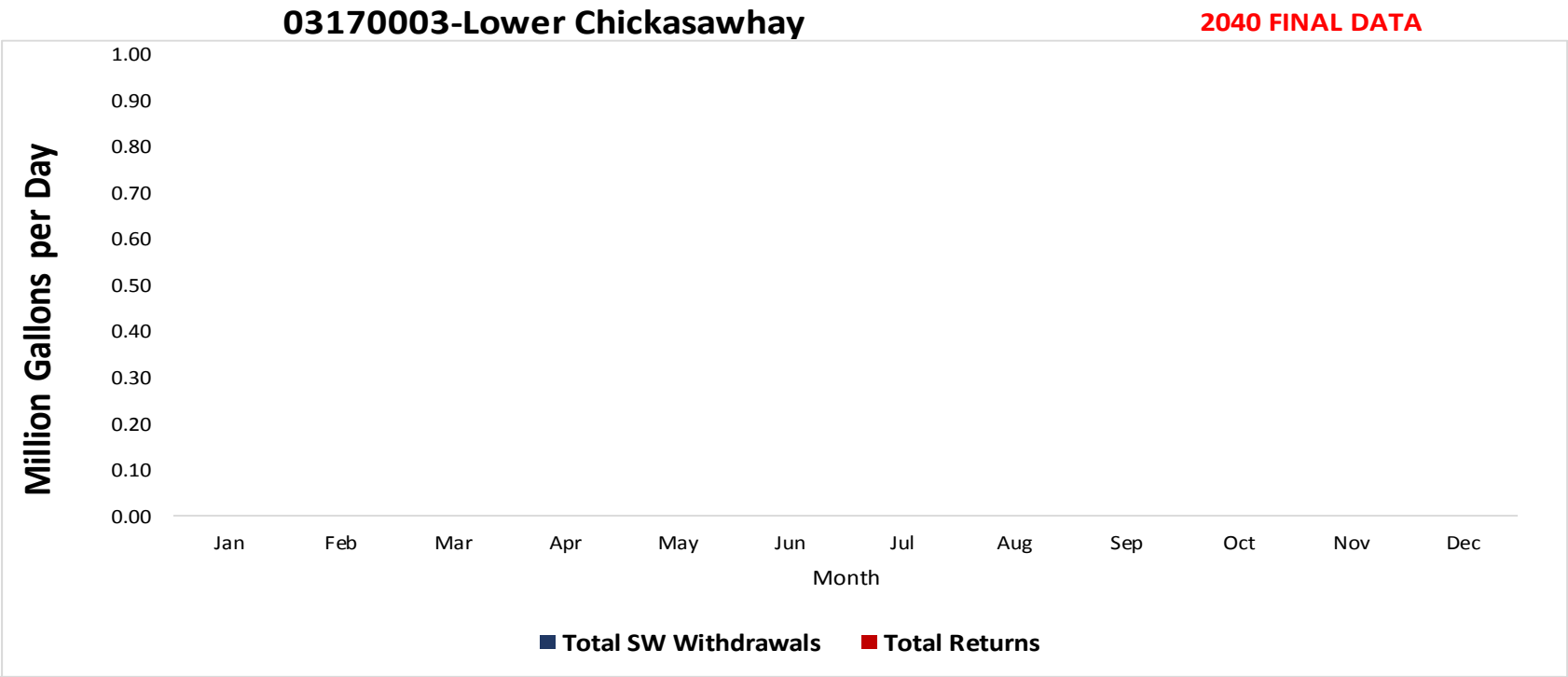
Returns (MGD)

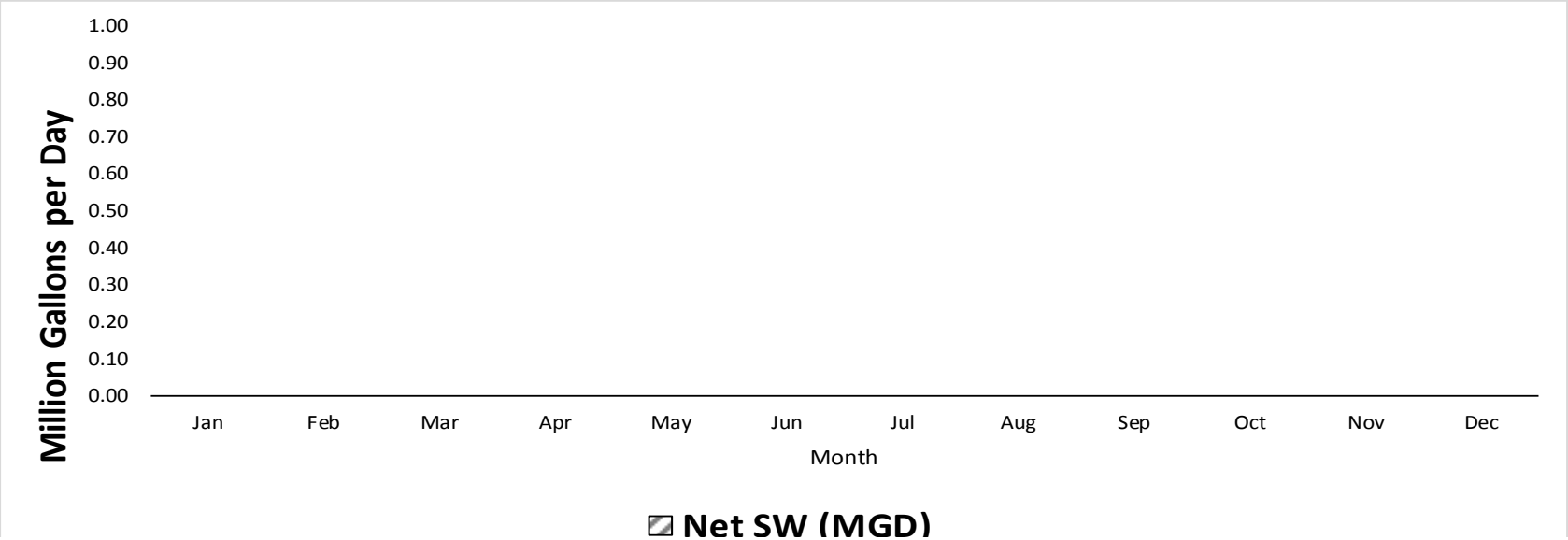
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

03170003-Lower Chickasawhay

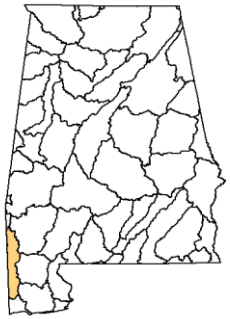
2040 FINAL DATA

Total SW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total GW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Withdrawal Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**


03170003-Lower Chickasawhay
2040 FINAL DATA
Million Gallons per Day
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03170008-Escatawpa



Area in AL (Square Miles)	702.9
Estimated Population (2040)	86,608
Subregion:	Pascagoula

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	6.74	5.29	5.54	6.25	6.10	6.52	6.27	6.53	6.27	6.18	5.41	5.57	6.05
Public Supply	SW	86.76	79.30	78.72	83.12	82.36	88.36	85.29	86.32	86.71	82.53	79.75	79.13	83.20
Industrial/Mining/ Thermoelectric	GW	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	1.25	1.92	3.25	7.71	12.44	20.37	23.05	16.99	11.40	7.69	2.93	1.56	9.21
Agriculture	SW	0.18	0.24	0.45	1.03	1.45	2.14	2.48	2.02	1.64	1.12	0.47	0.22	1.12
Total	**SW**	**86.94**	**79.54**	**79.16**	**84.15**	**83.82**	**90.50**	**87.77**	**88.34**	**88.36**	**83.65**	**80.22**	**79.35**	**84.32**
Total	**GW**	**8.05**	**7.28**	**8.86**	**14.03**	**18.61**	**26.95**	**29.39**	**23.58**	**17.74**	**13.95**	**8.42**	**7.20**	**15.34**

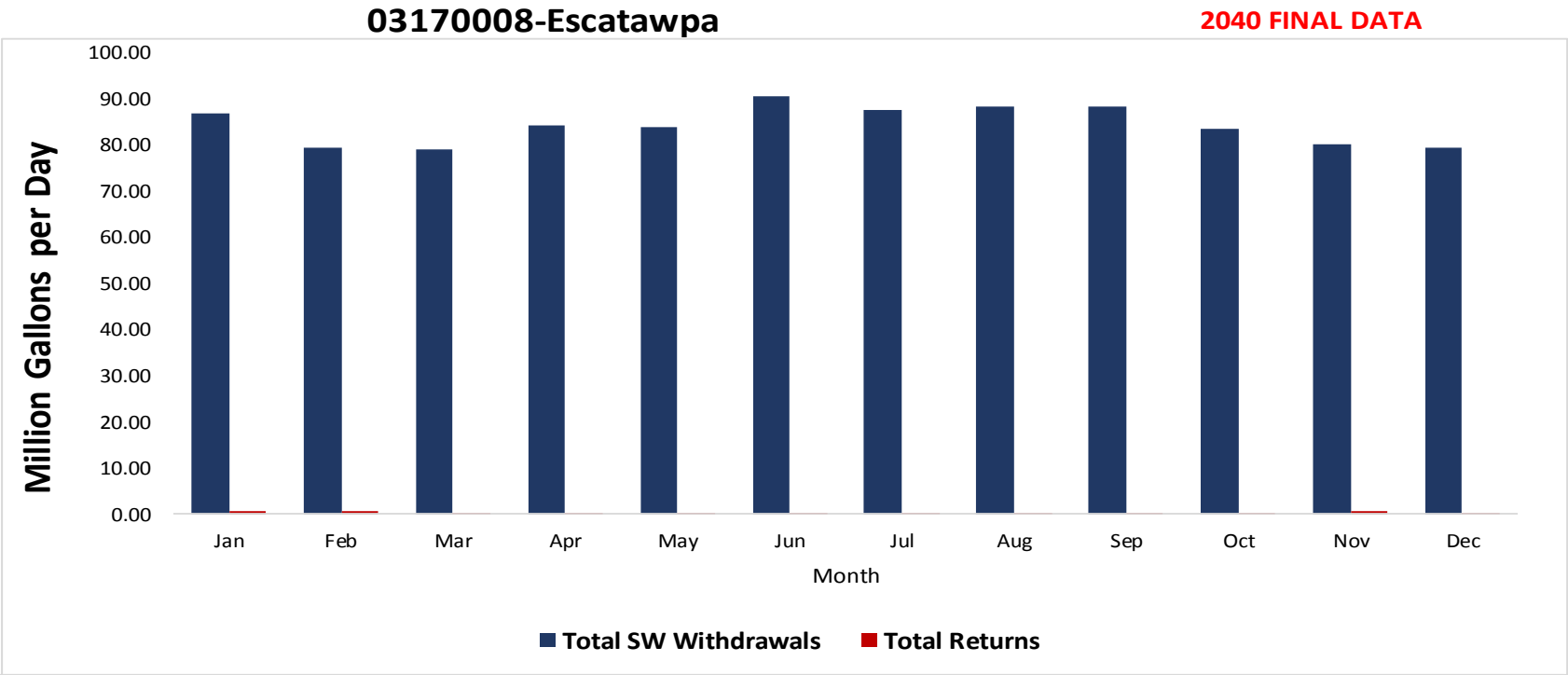
Returns (MGD)

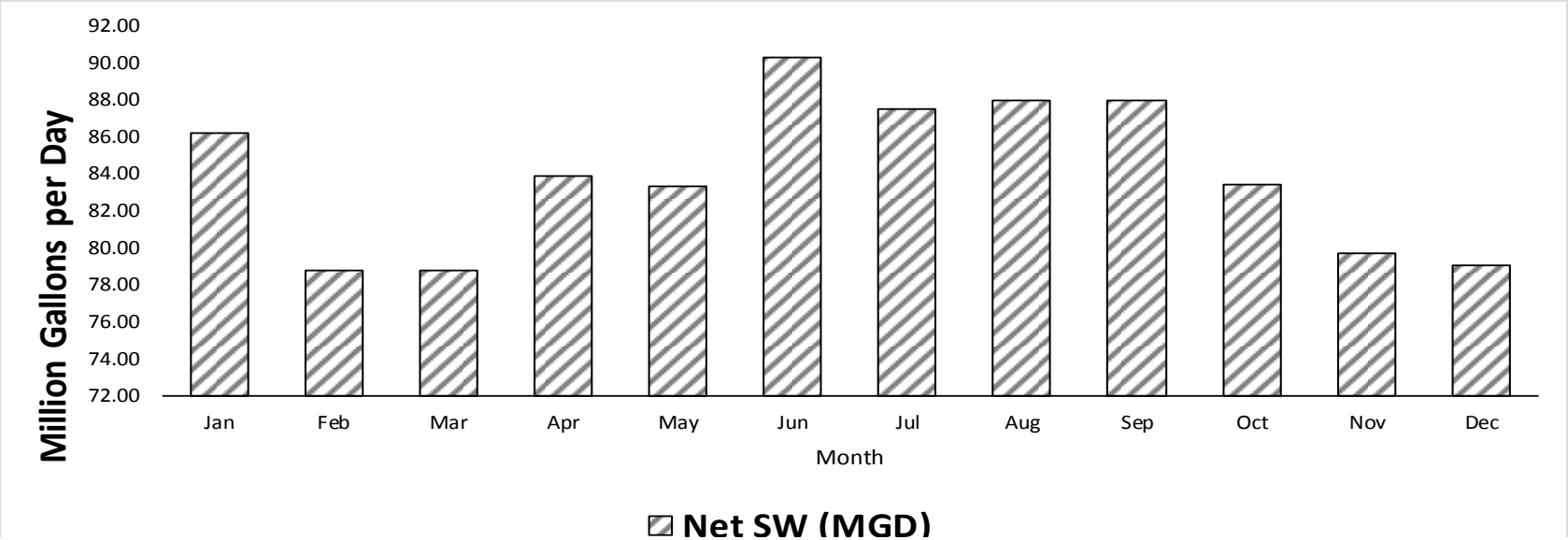
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.73	0.80	0.42	0.26	0.53	0.28	0.28	0.38	0.42	0.24	0.57	0.35	0.44
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.73**	**0.80**	**0.42**	**0.26**	**0.53**	**0.28**	**0.28**	**0.38**	**0.42**	**0.24**	**0.57**	**0.35**	**0.44**

03170008-Escatawpa

2040 FINAL DATA

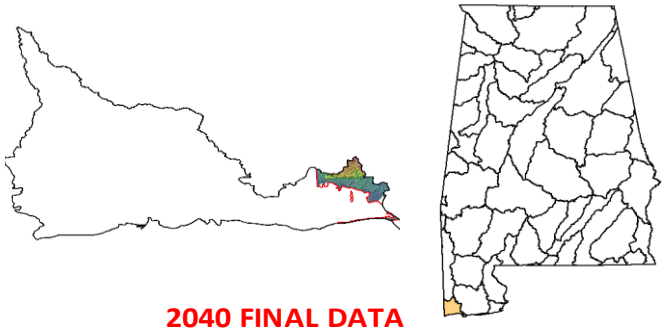
Total SW Withdrawals	SW	86.94	79.54	79.16	84.15	83.82	90.50	87.77	88.34	88.36	83.65	80.22	79.35	84.32
Total GW Withdrawals	SW	8.05	7.28	8.86	14.03	18.61	26.95	29.39	23.58	17.74	13.95	8.42	7.20	15.34
Withdrawal Total		94.99	86.81	88.02	98.18	102.43	117.46	117.16	111.93	106.10	97.60	88.64	86.56	99.66
Total Returns		**0.73**	**0.80**	**0.42**	**0.26**	**0.53**	**0.28**	**0.28**	**0.38**	**0.42**	**0.24**	**0.57**	**0.35**	0.44
Net SW (MGD)	SW	**86.21**	**78.74**	**78.74**	**83.89**	**83.29**	**90.22**	**87.50**	**87.96**	**87.93**	**83.42**	**79.65**	**79.00**	**83.88**


03170008-Escatawpa
2040 FINAL DATA
Million Gallons per Day
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
92.00
90.00
88.00
86.00
84.00
82.00
80.00
78.00
76.00
74.00
72.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

03170009-Mississippi Coastal

Area in AL (Square Miles)	320.0
Estimated Population (2040)	14,819
Subregion:	Pascagoula



2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.19	1.04	1.06	1.29	1.28	1.32	1.39	1.43	1.36	1.32	1.28	1.02	1.25
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.33	0.50	0.84	1.99	3.21	5.26	5.95	4.39	2.95	1.99	0.76	0.41	2.38
Agriculture	SW	0.07	0.09	0.18	0.44	0.59	0.83	0.98	0.83	0.73	0.50	0.21	0.09	0.46
Total	**SW**	**0.07**	**0.09**	**0.18**	**0.44**	**0.59**	**0.83**	**0.98**	**0.83**	**0.73**	**0.50**	**0.21**	**0.09**	**0.46**
Total	**GW**	**1.54**	**1.57**	**1.92**	**3.31**	**4.52**	**6.61**	**7.37**	**5.84**	**4.33**	**3.33**	**2.06**	**1.45**	**3.66**

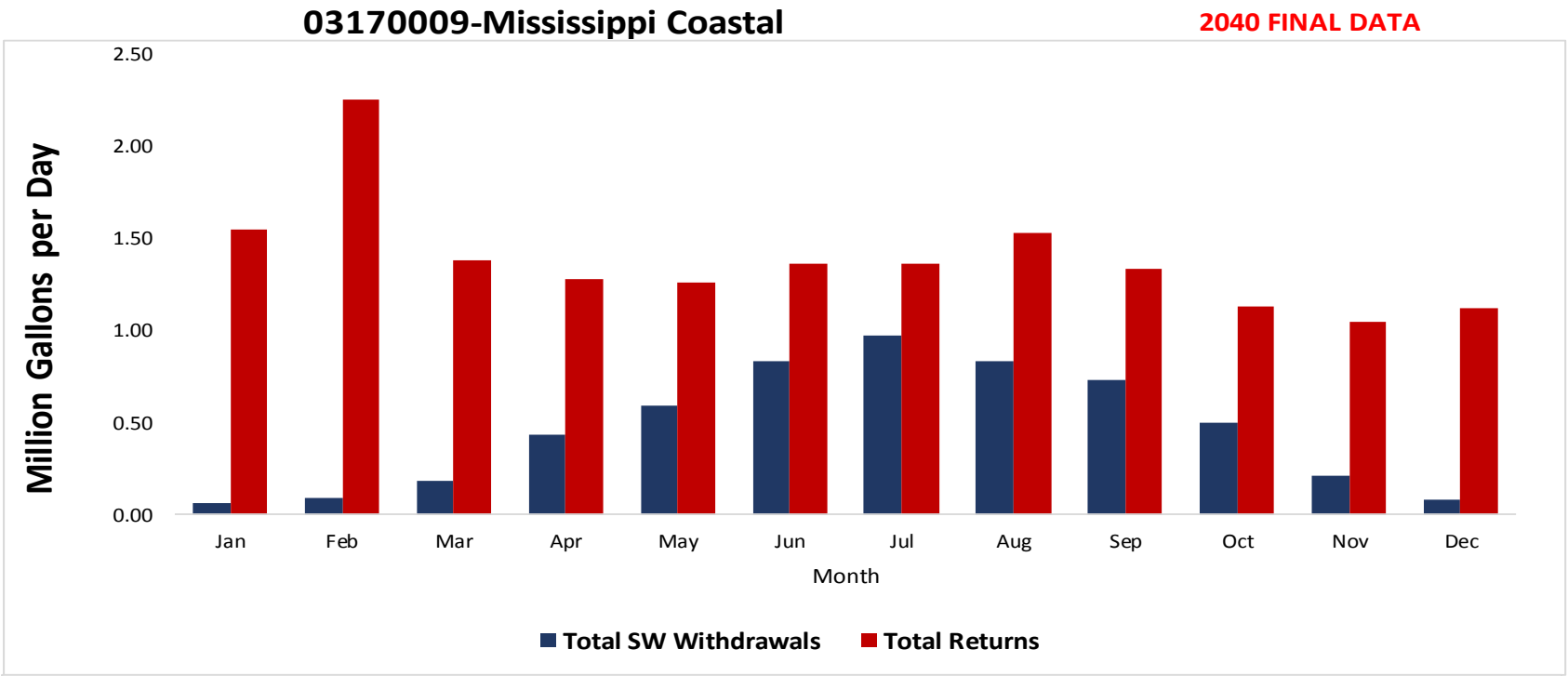
Returns (MGD)

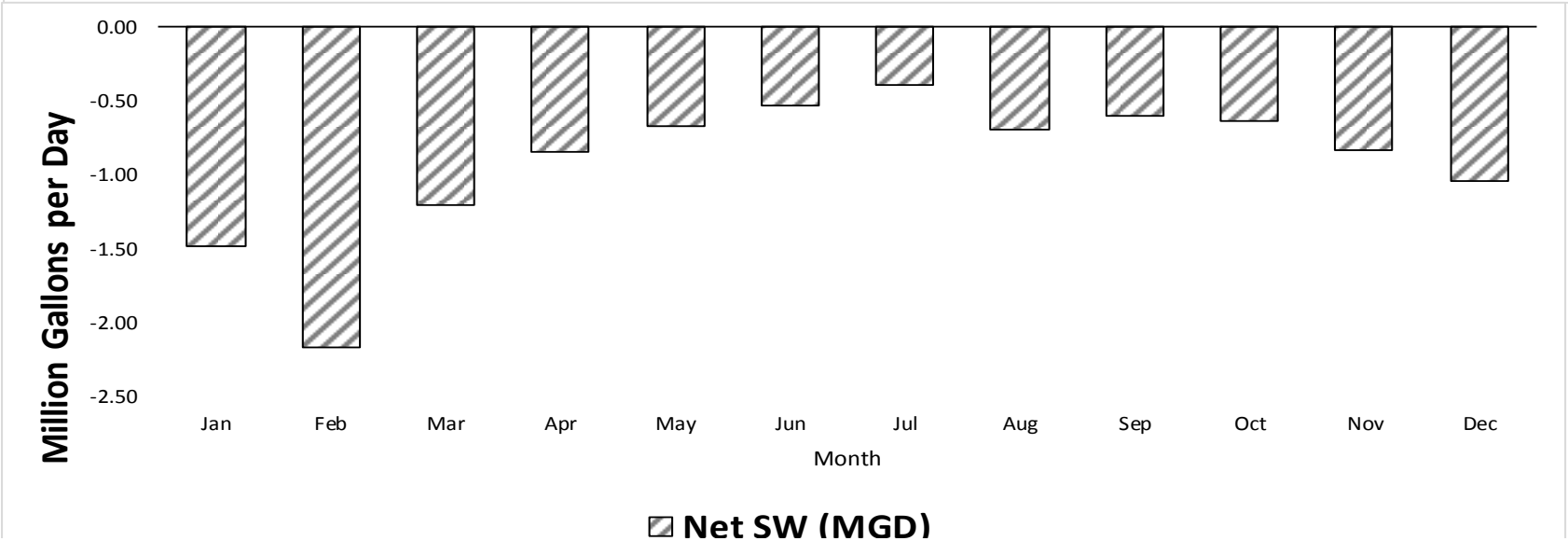
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.23	1.18	1.13	0.93	1.00	1.02	1.03	1.22	1.02	0.84	0.80	0.74	1.01
Industrial/Mining/ Thermoelectric		0.32	1.08	0.26	0.36	0.27	0.35	0.34	0.31	0.31	0.29	0.25	0.39	0.38
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**1.55**	**2.25**	**1.39**	**1.28**	**1.27**	**1.37**	**1.37**	**1.53**	**1.33**	**1.13**	**1.05**	**1.12**	**1.39**

03170009-Mississippi Coastal

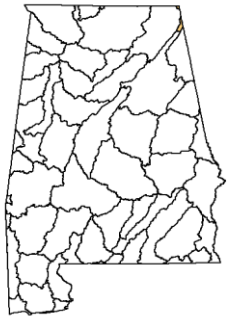
2040 FINAL DATA

Total SW Withdrawals	SW	0.07	0.09	0.18	0.44	0.59	0.83	0.98	0.83	0.73	0.50	0.21	0.09	0.46
Total GW Withdrawals	SW	1.54	1.57	1.92	3.31	4.52	6.61	7.37	5.84	4.33	3.33	2.06	1.45	3.66
Withdrawal Total		1.60	1.66	2.11	3.75	5.11	7.44	8.35	6.68	5.07	3.83	2.27	1.54	4.12
Total Returns		**1.55**	**2.25**	**1.39**	**1.28**	**1.27**	**1.37**	**1.37**	**1.53**	**1.33**	**1.13**	**1.05**	**1.12**	1.39
Net SW (MGD)	SW	**-1.48**	**-2.16**	**-1.20**	**-0.84**	**-0.67**	**-0.54**	**-0.39**	**-0.70**	**-0.60**	**-0.64**	**-0.84**	**-1.04**	**-0.92**


03170009-Mississippi Coastal
2040 FINAL DATA
Million Gallons per Day
2.50
2.00
1.50
1.00
0.50
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06020001-Middle Tennesse-Chickamauga



Area in AL (Square Miles)	53.4
Estimated Population (2040)	1,150
Subregion:	Middle-Tennessee-HiWassee

2040 Demands

2040 FINAL DATA

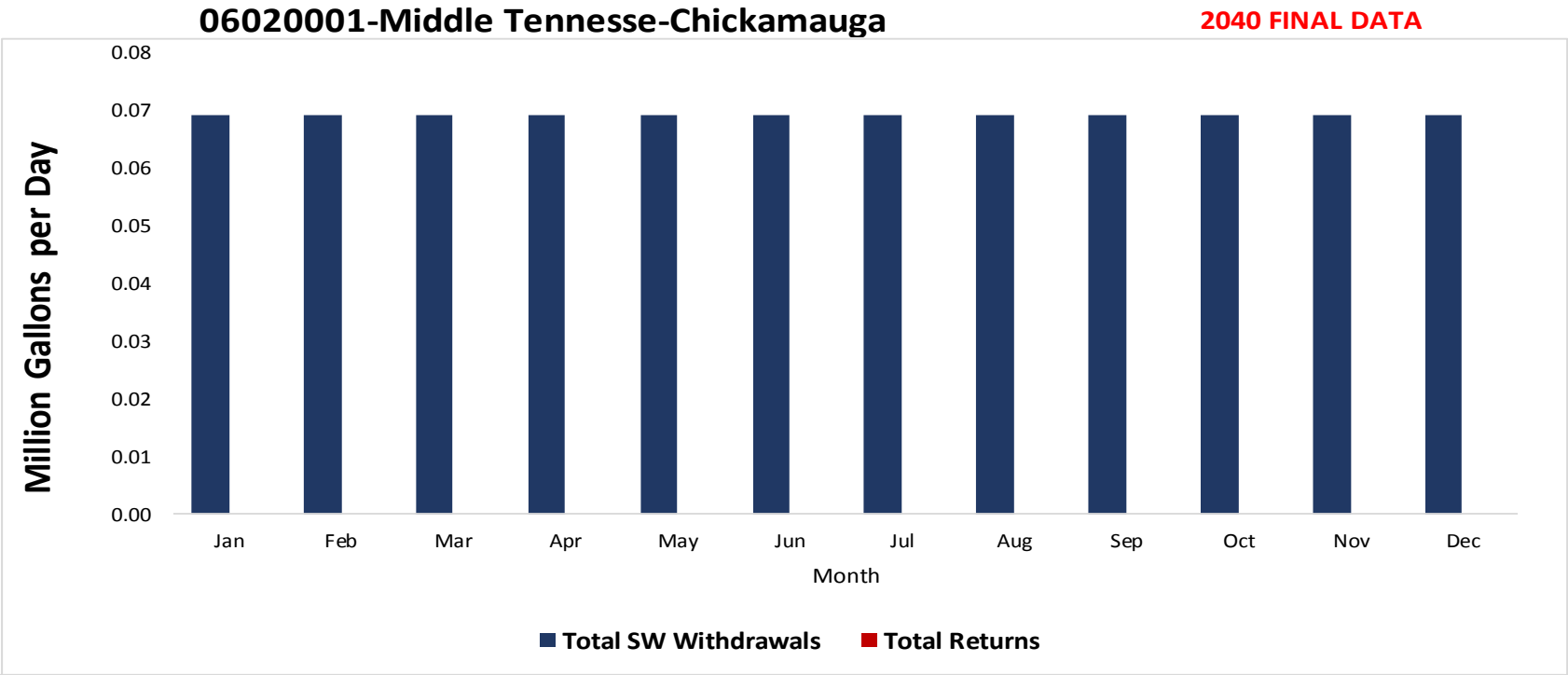
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	0.29	0.28	0.29	0.29	0.30	0.33	0.35	0.34	0.33	0.00	0.00	0.00	0.23
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Agriculture	SW	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total	**SW**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**
Total	**GW**	**0.35**	**0.35**	**0.35**	**0.35**	**0.36**	**0.39**	**0.41**	**0.40**	**0.40**	**0.06**	**0.06**	**0.06**	**0.29**

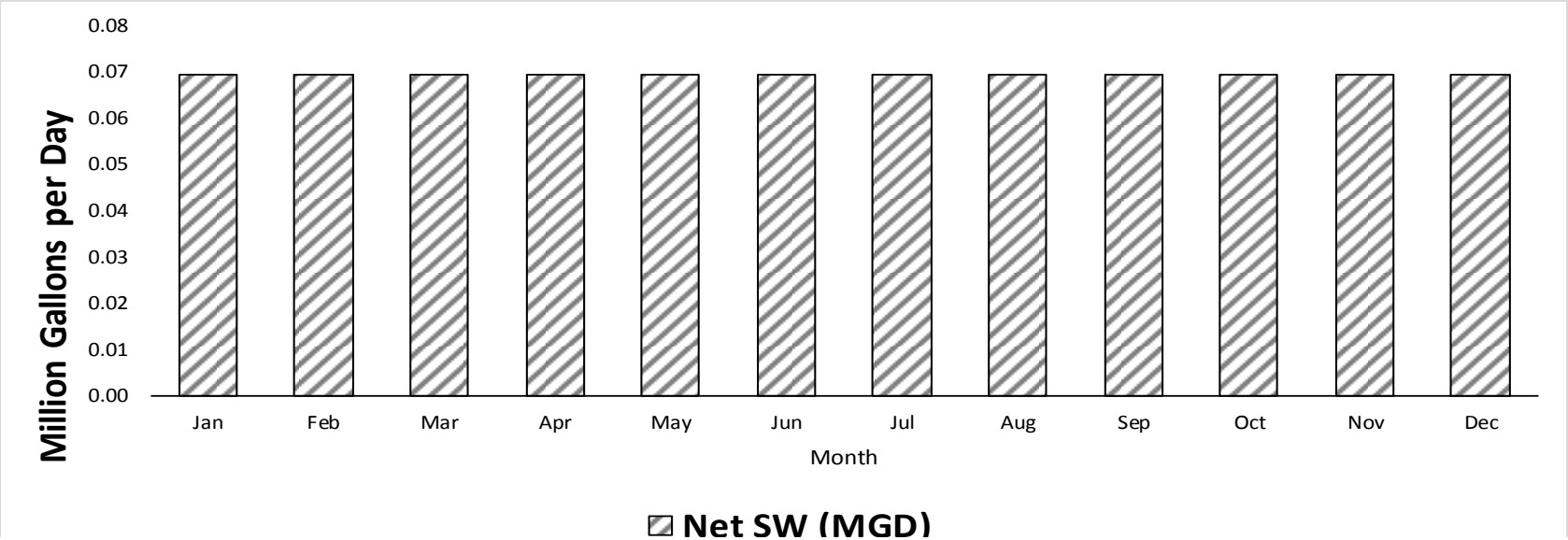
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

06020001-Middle Tennesse-Chickamauga

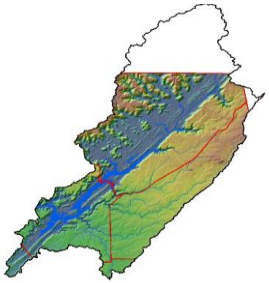
2040 FINAL DATA

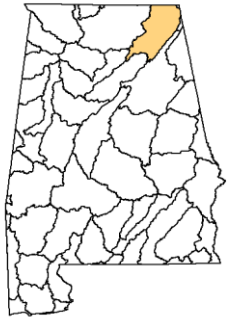
Total SW Withdrawals	SW	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Total GW Withdrawals	SW	0.35	0.35	0.35	0.35	0.36	0.39	0.41	0.40	0.40	0.06	0.06	0.06	0.29
Withdrawal Total		0.42	0.41	0.42	0.42	0.43	0.46	0.48	0.47	0.46	0.13	0.13	0.13	0.36
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**


06020001-Middle Tennesse-Chickamauga
2040 FINAL DATA
Million Gallons per Day
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06030001-Guntersville Lake





Area in AL (Square Miles)	1,647.0
Estimated Population (2040)	172,909
Subregion:	Middle-Tennessee-Elk

2040 Demands

2040 FINAL DATA

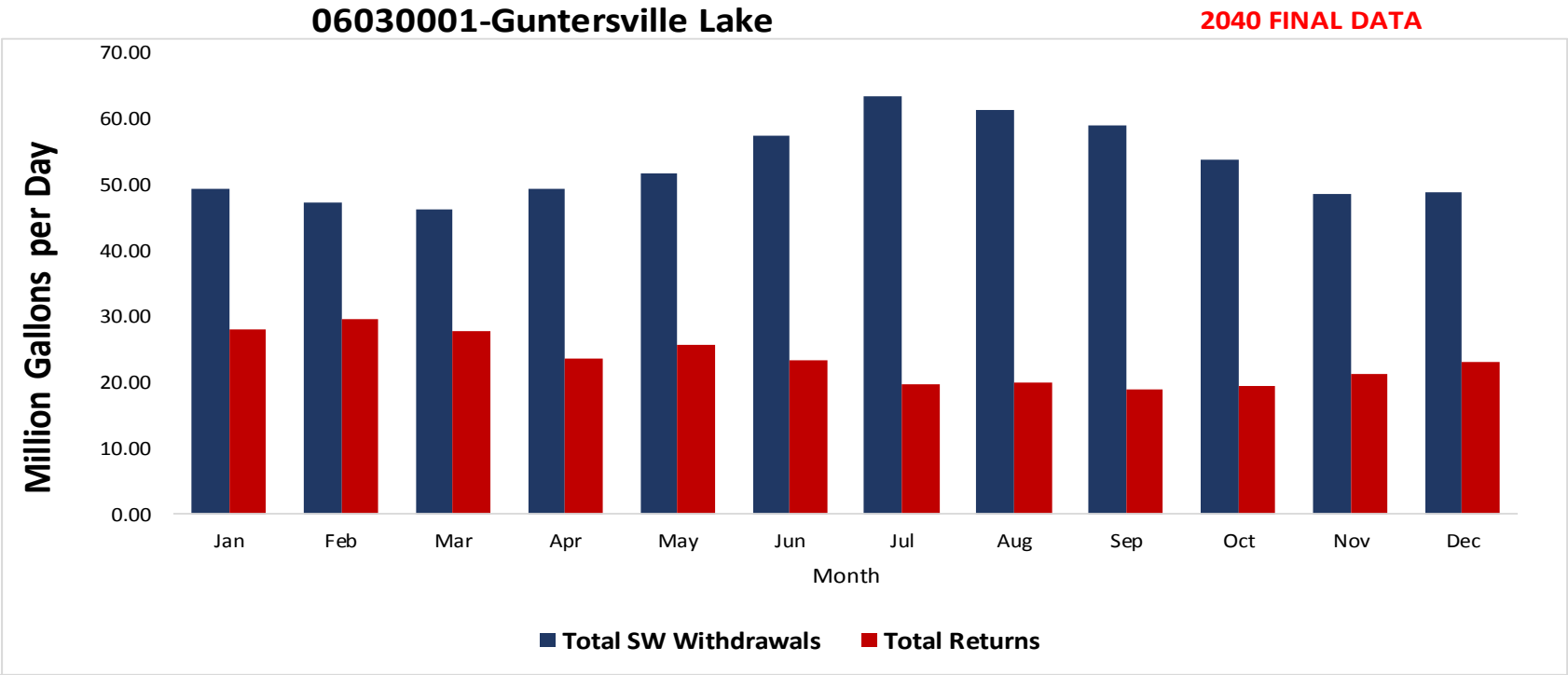
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	5.60	5.44	7.16	5.15	6.29	4.97	4.94	7.98	5.27	7.17	4.36	6.63	5.91
Public Supply	SW	37.77	35.94	34.83	35.91	36.64	40.10	44.04	43.70	42.60	39.51	36.29	37.12	38.70
Industrial/Mining/ Thermoelectric	GW	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Industrial/Mining/ Thermoelectric	SW	9.98	9.51	8.97	9.30	9.63	9.59	10.57	10.35	10.25	9.89	9.75	10.13	9.83
Agriculture	GW	1.21	1.27	1.40	1.82	2.27	3.02	3.27	2.70	2.17	1.82	1.37	1.24	1.96
Agriculture	SW	1.55	1.75	2.37	4.16	5.48	7.63	8.67	7.22	6.03	4.43	2.45	1.69	4.45
Total	**SW**	**49.30**	**47.19**	**46.17**	**49.37**	**51.76**	**57.31**	**63.28**	**61.27**	**58.88**	**53.83**	**48.49**	**48.93**	**52.98**
Total	**GW**	**6.97**	**6.88**	**8.73**	**7.14**	**8.73**	**8.16**	**8.38**	**10.85**	**7.61**	**9.16**	**5.89**	**8.04**	**8.04**

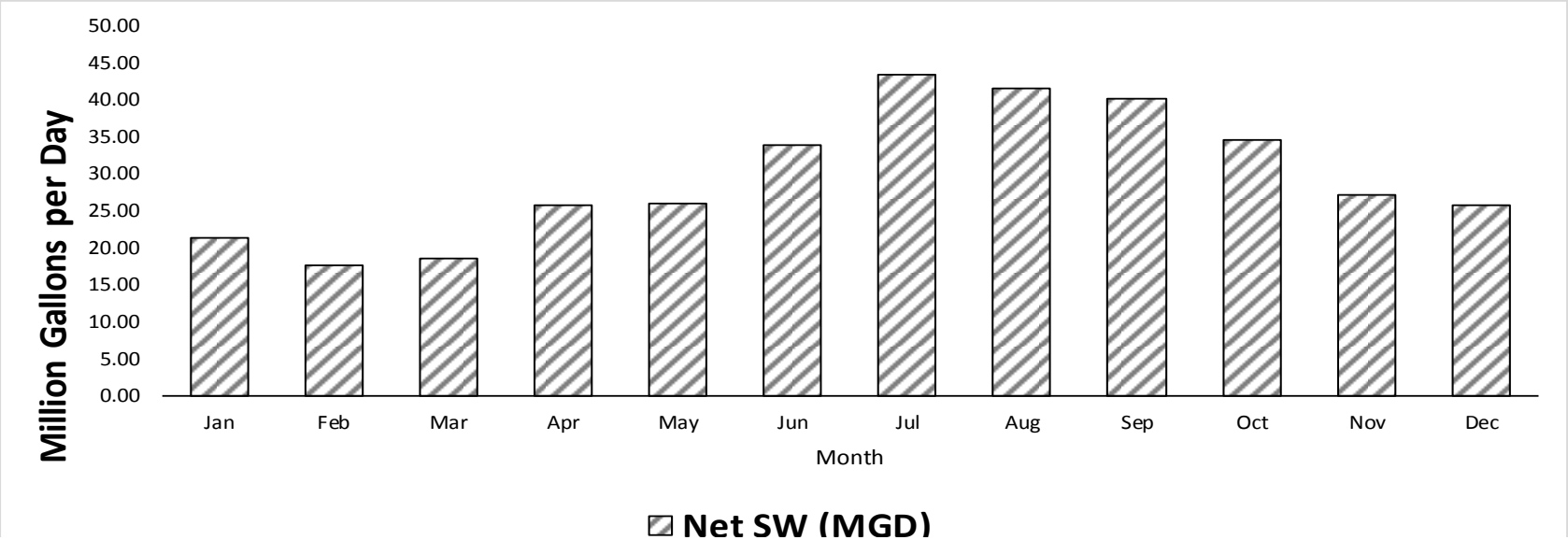
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		18.65	21.36	19.80	15.80	17.04	14.85	11.94	12.02	11.21	11.30	12.31	14.23	15.04
Industrial/Mining/ Thermoelectric		9.39	8.29	7.97	7.86	8.80	8.64	7.92	7.88	7.70	8.11	9.03	9.00	8.38
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**28.04**	**29.65**	**27.77**	**23.66**	**25.85**	**23.49**	**19.86**	**19.89**	**18.91**	**19.42**	**21.33**	**23.23**	**23.42**

06030001-Guntersville Lake

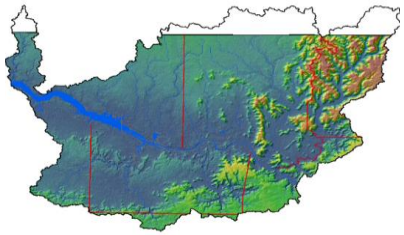
2040 FINAL DATA

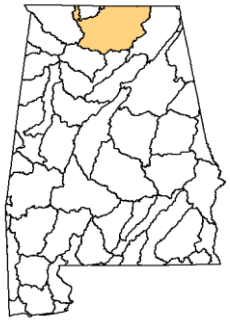
Total SW Withdrawals	SW	49.30	47.19	46.17	49.37	51.76	57.31	63.28	61.27	58.88	53.83	48.49	48.93	52.98
Total GW Withdrawals	SW	6.97	6.88	8.73	7.14	8.73	8.16	8.38	10.85	7.61	9.16	5.89	8.04	8.04
Withdrawal Total		56.27	54.06	54.90	56.51	60.48	65.47	71.66	72.12	66.49	62.99	54.38	56.97	61.03
Total Returns		**28.04**	**29.65**	**27.77**	**23.66**	**25.85**	**23.49**	**19.86**	**19.89**	**18.91**	**19.42**	**21.33**	**23.23**	23.42
Net SW (MGD)	SW	**21.26**	**17.54**	**18.41**	**25.71**	**25.91**	**33.83**	**43.42**	**41.38**	**39.97**	**34.42**	**27.16**	**25.70**	**29.56**


06030001-Guntersville Lake
2040 FINAL DATA
Million Gallons per Day
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06030002-Wheeler Lake





Area in AL (Square Miles)	2,663.7
Estimated Population (2040)	771,919
Subregion:	Middle-Tennessee-Elk

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	38.15	38.29	38.78	42.41	44.47	46.25	52.57	50.26	44.17	41.89	37.83	39.26	42.86
Public Supply	SW	95.39	90.05	82.80	95.36	104.15	113.21	134.46	132.95	125.07	113.80	92.26	87.23	105.56
Industrial/Mining/ Thermoelectric	GW	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Industrial/Mining/ Thermoelectric	SW	3573.01	3415.02	2351.41	3590.70	3621.81	3628.65	3510.62	3194.38	3614.52	3348.57	3109.48	3583.05	3378.43
Agriculture	GW	3.03	4.26	6.72	14.93	23.63	38.24	43.18	32.01	21.73	14.90	6.13	3.60	17.70
Agriculture	SW	3.92	5.38	9.12	20.56	30.80	47.69	54.46	42.19	31.37	21.46	8.99	4.74	23.39
Total	**SW**	**3672.31**	**3510.45**	**2443.32**	**3706.61**	**3756.76**	**3789.56**	**3699.54**	**3369.52**	**3770.96**	**3483.83**	**3210.74**	**3675.02**	**3507.39**
Total	**GW**	**41.80**	**43.17**	**46.12**	**57.97**	**68.72**	**85.11**	**96.38**	**82.90**	**66.52**	**57.41**	**44.58**	**43.49**	**61.18**

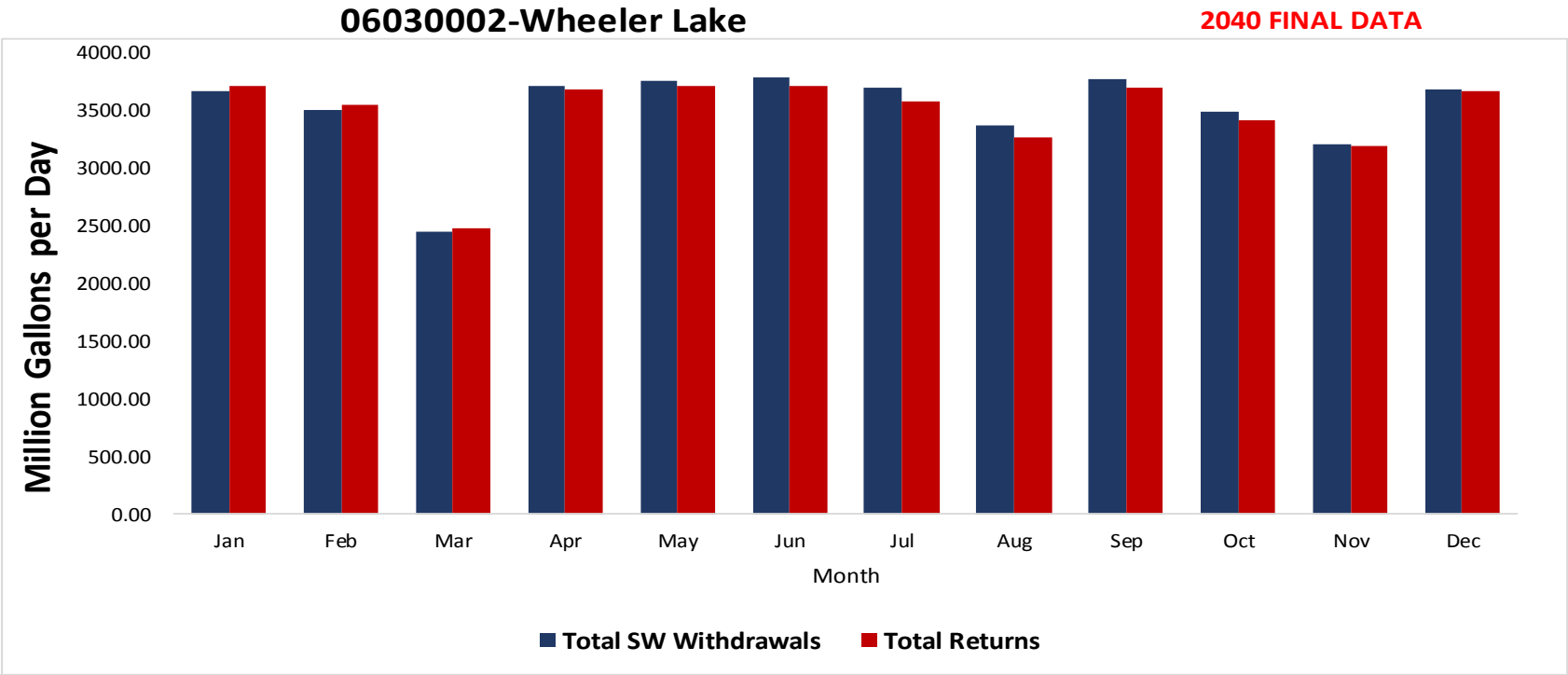
Returns (MGD)

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		121.91	136.97	116.85	95.27	92.79	85.51	77.02	75.54	69.61	68.81	77.71	86.46	92.04
Industrial/Mining/ Thermoelectric		3582.85	3415.45	2367.34	3580.39	3625.50	3632.96	3508.20	3192.56	3621.11	3346.68	3113.12	3585.75	3380.99
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**3704.76**	**3552.42**	**2484.18**	**3675.67**	**3718.29**	**3718.47**	**3585.22**	**3268.10**	**3690.72**	**3415.48**	**3190.83**	**3672.21**	**3473.03**

06030002-Wheeler Lake

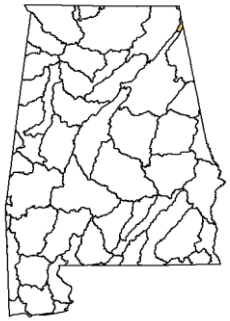
2040 FINAL DATA

Total SW Withdrawals	SW	3672.31	3510.45	2443.32	3706.61	3756.76	3789.56	3699.54	3369.52	3770.96	3483.83	3210.74	3675.02	3507.39
Total GW Withdrawals	SW	41.80	43.17	46.12	57.97	68.72	85.11	96.38	82.90	66.52	57.41	44.58	43.49	61.18
Withdrawal Total		3714.11	3553.62	2489.44	3764.58	3825.49	3874.67	3795.92	3452.42	3837.48	3541.24	3255.32	3718.51	3568.57
Total Returns		**3704.76**	**3552.42**	**2484.18**	**3675.67**	**3718.29**	**3718.47**	**3585.22**	**3268.10**	**3690.72**	**3415.48**	**3190.83**	**3672.21**	3473.03
Net SW (MGD)	SW	**-32.45**	**-41.97**	**-40.87**	**30.95**	**38.47**	**71.09**	**114.32**	**101.42**	**80.24**	**68.35**	**19.91**	**2.82**	**34.36**


06030002-Wheeler Lake
2040 FINAL DATA
Million Gallons per Day
4000.00
3500.00
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns

Million Gallons per Day
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
-20.00
-40.00
-60.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06030003-Elk



Area in AL (Square Miles)	0.4
Estimated Population (2040)	4
Subregion:	Middle-Tennessee-Elk

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**SW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**GW**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

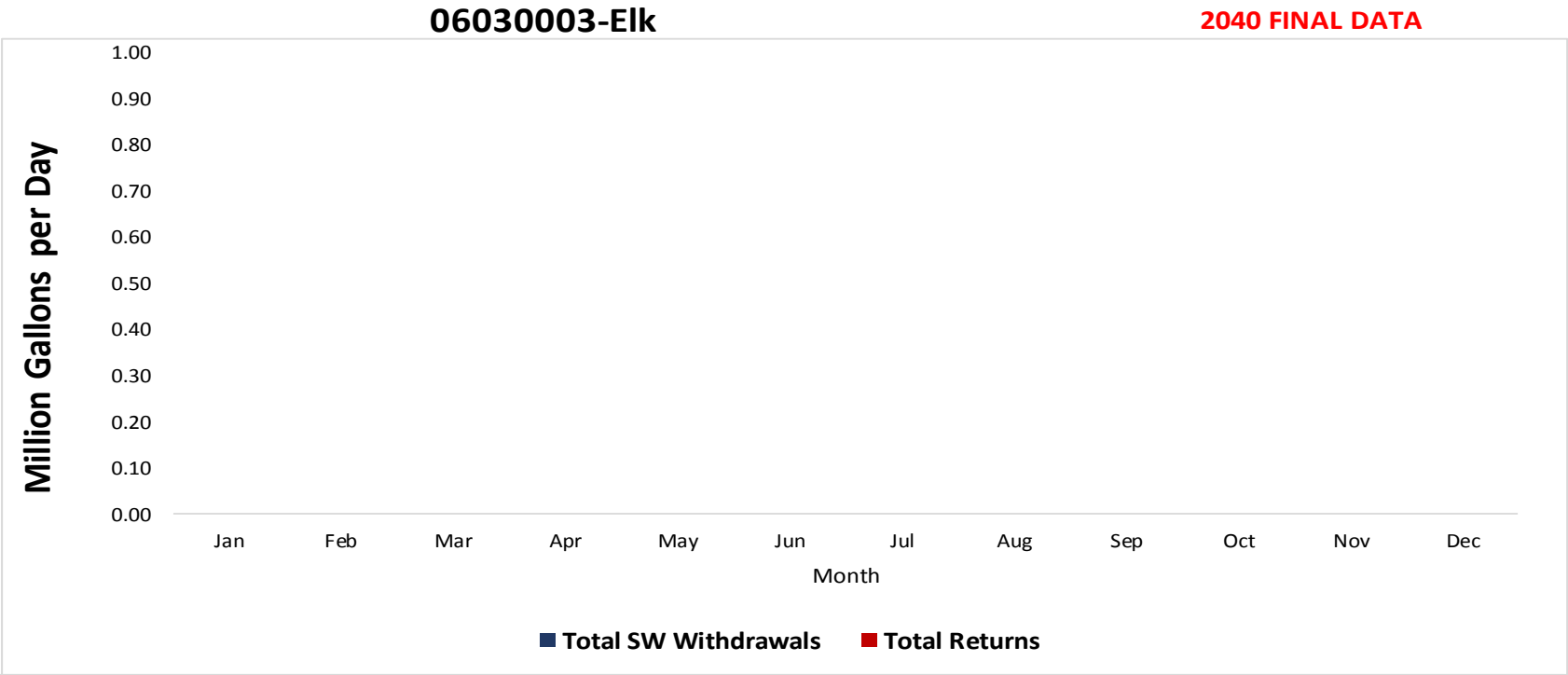
Returns (MGD)

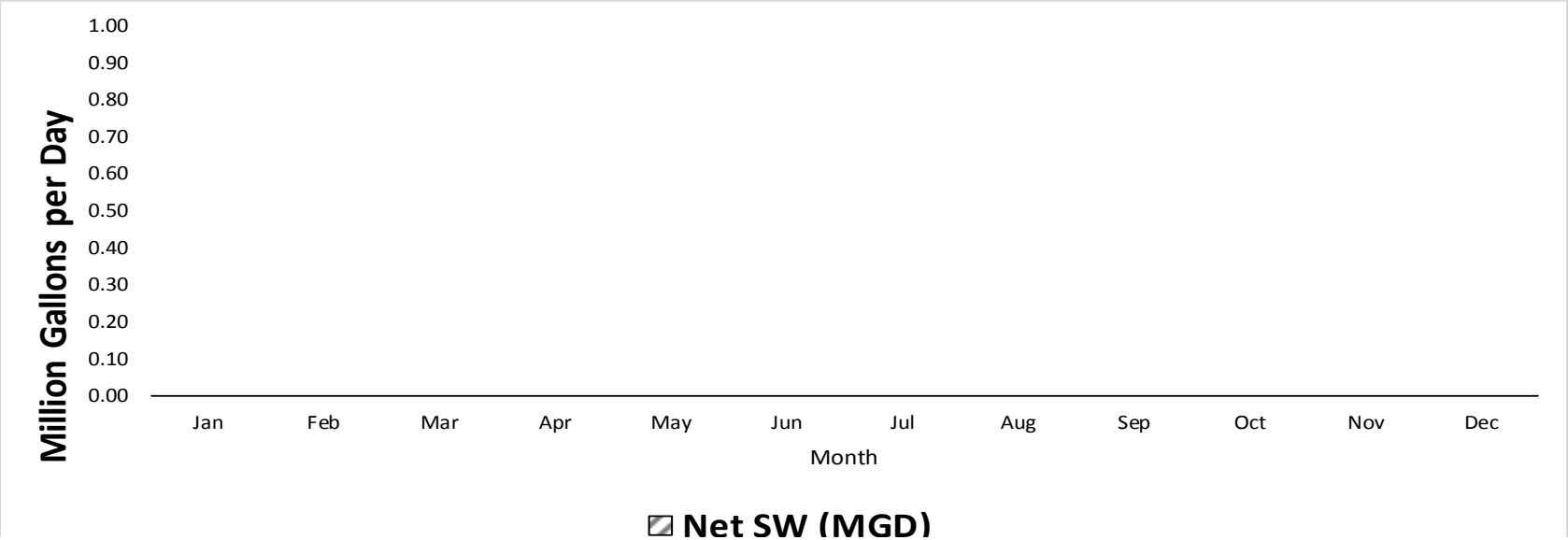
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

06030003-Elk

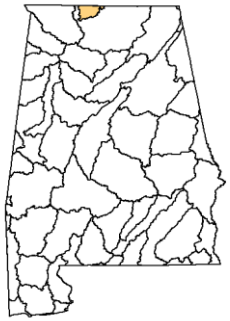
2040 FINAL DATA

Total SW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total GW Withdrawals	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Withdrawal Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00
Net SW (MGD)	SW	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**


06030003-Elk
2040 FINAL DATA
Million Gallons per Day
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06030004-Lower Elk



Area in AL (Square Miles)	249.5
Estimated Population (2040)	22,119
Subregion:	Middle-Tennessee-Elk

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	10.47	10.01	10.04	10.21	10.43	10.88	12.46	12.77	11.46	10.46	10.03	9.21	10.70
Industrial/Mining/ Thermoelectric	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining/ Thermoelectric	SW	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Agriculture	GW	0.14	0.19	0.29	0.61	0.94	1.51	1.70	1.27	0.87	0.60	0.26	0.17	0.71
Agriculture	SW	0.31	0.44	0.73	1.65	2.57	4.11	4.66	3.51	2.46	1.68	0.68	0.37	1.93
Total	**SW**	**11.11**	**10.78**	**11.09**	**12.19**	**13.33**	**15.32**	**17.45**	**16.61**	**14.25**	**12.46**	**11.04**	**9.91**	**12.96**
Total	**GW**	**0.14**	**0.19**	**0.29**	**0.61**	**0.94**	**1.51**	**1.70**	**1.27**	**0.87**	**0.60**	**0.26**	**0.17**	**0.71**

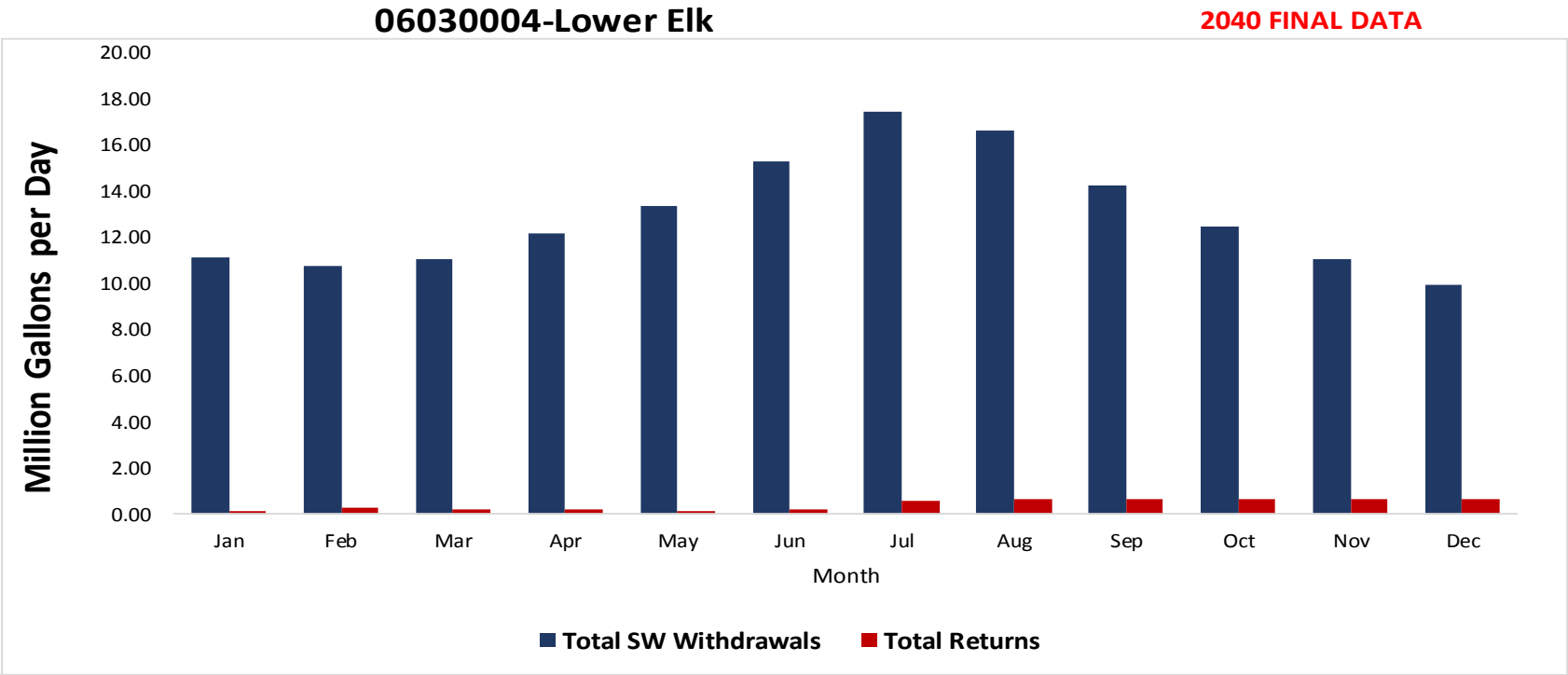
Returns (MGD)

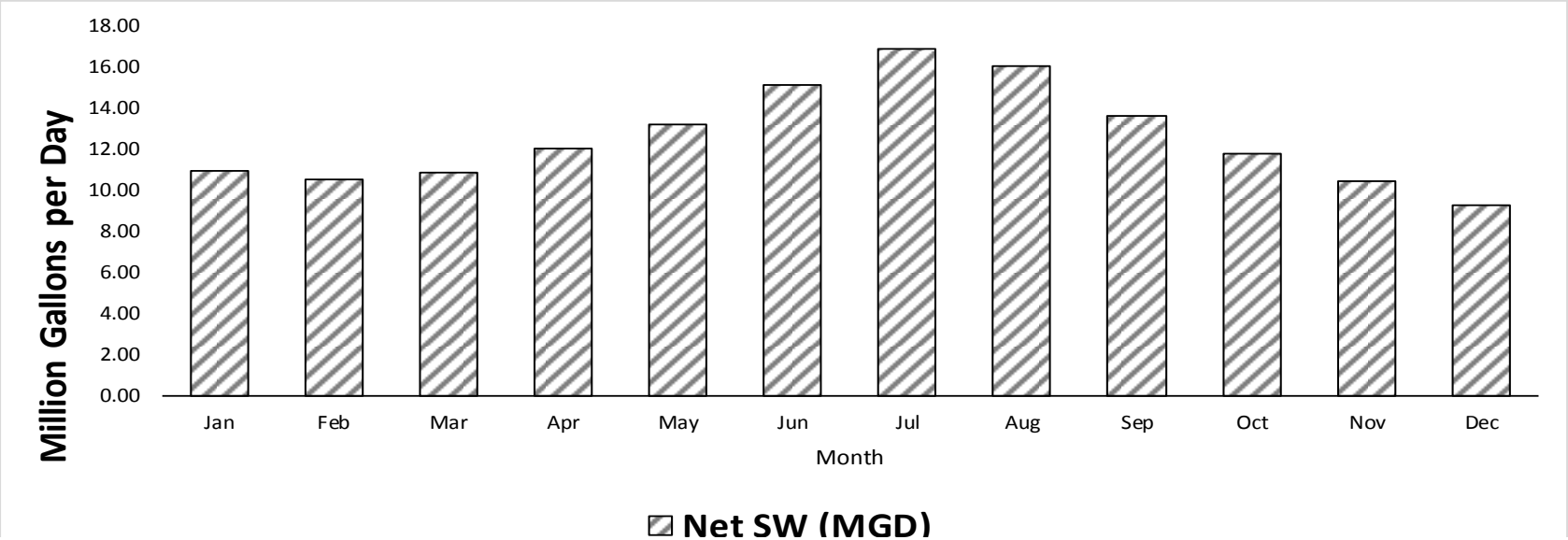
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.18	0.29	0.25	0.20	0.17	0.21	0.61	0.64	0.67	0.69	0.67	0.69	0.44
Industrial/Mining/ Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**0.18**	**0.29**	**0.26**	**0.20**	**0.17**	**0.22**	**0.61**	**0.64**	**0.67**	**0.69**	**0.67**	**0.69**	**0.44**

06030004-Lower Elk

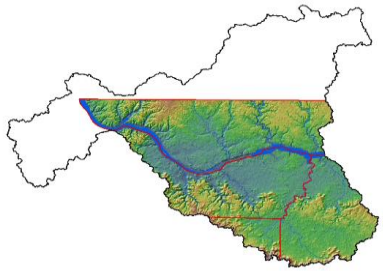
2040 FINAL DATA

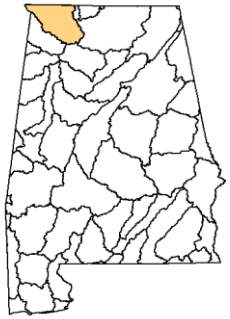
Total SW Withdrawals	SW	11.11	10.78	11.09	12.19	13.33	15.32	17.45	16.61	14.25	12.46	11.04	9.91	12.96
Total GW Withdrawals	SW	0.14	0.19	0.29	0.61	0.94	1.51	1.70	1.27	0.87	0.60	0.26	0.17	0.71
Withdrawal Total		11.26	10.98	11.38	12.80	14.27	16.83	19.14	17.88	15.12	13.07	11.31	10.08	13.67
Total Returns		**0.18**	**0.29**	**0.26**	**0.20**	**0.17**	**0.22**	**0.61**	**0.64**	**0.67**	**0.69**	**0.67**	**0.69**	0.44
Net SW (MGD)	SW	**10.93**	**10.50**	**10.84**	**11.99**	**13.16**	**15.10**	**16.83**	**15.97**	**13.58**	**11.77**	**10.37**	**9.22**	**12.52**


06030004-Lower Elk
2040 FINAL DATA
Million Gallons per Day
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06030005-Pickwick Lake





Area in AL (Square Miles)	1,411.0
Estimated Population (2040)	159,781
Subregion:	Middle-Tennessee-Elk

2040 Demands

2040 FINAL DATA

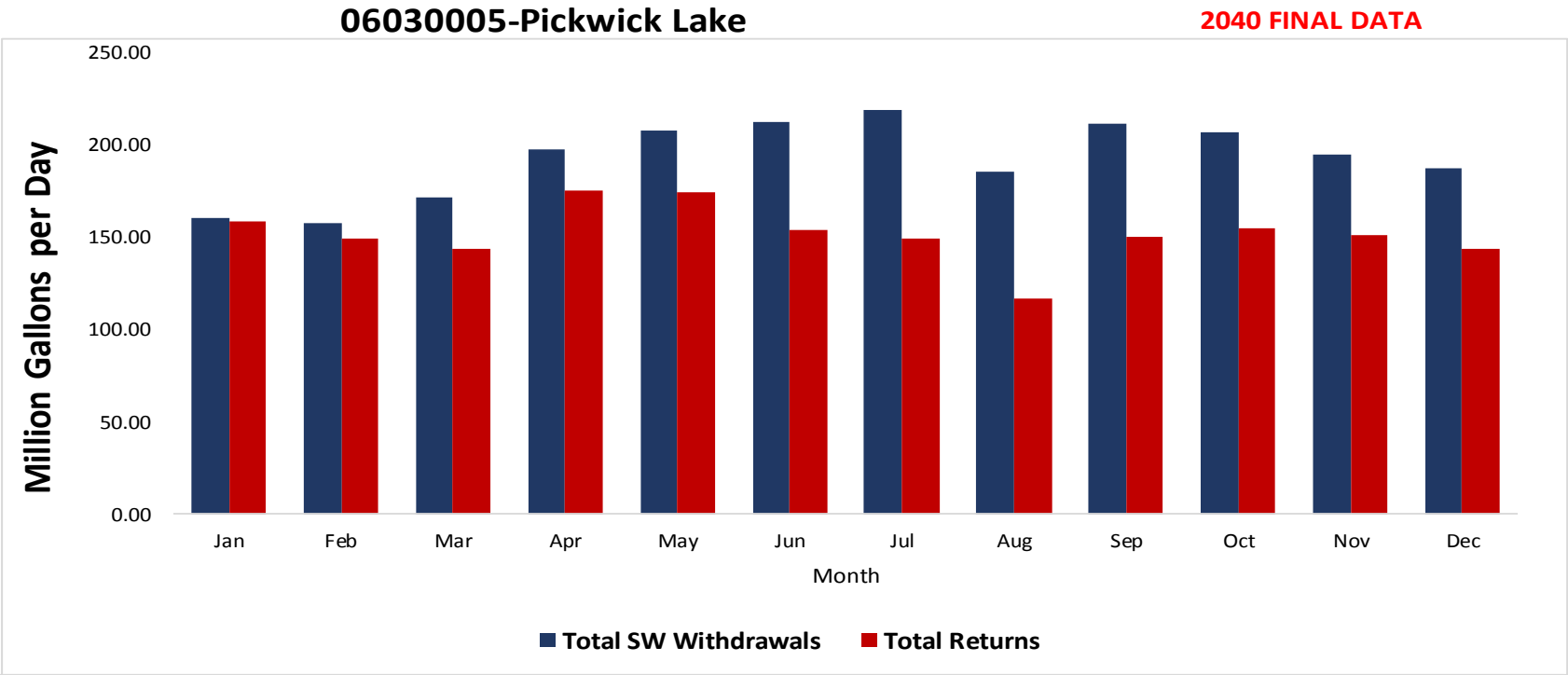
Withdrawals (MGD)														
Category	**Source**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply	GW	1.10	1.02	1.03	1.95	1.14	1.08	1.11	1.09	1.14	1.09	1.04	1.06	1.15
Public Supply	SW	21.38	20.30	19.46	20.11	20.18	22.58	24.40	25.02	24.45	21.83	19.75	20.86	21.69
Industrial/Mining/ Thermoelectric	GW	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Industrial/Mining/ Thermoelectric	SW	137.38	135.38	148.56	168.95	175.05	169.94	171.32	142.42	173.43	176.19	171.35	164.90	161.24
Agriculture	GW	1.06	1.43	2.17	4.65	7.28	11.70	13.19	9.82	6.71	4.64	1.99	1.23	5.49
Agriculture	SW	1.70	2.32	3.90	8.74	13.05	20.16	23.02	17.86	13.32	9.13	3.85	2.05	9.92
Total	**SW**	**160.46**	**157.99**	**171.91**	**197.79**	**208.28**	**212.67**	**218.74**	**185.31**	**211.20**	**207.15**	**194.96**	**187.81**	**192.86**
Total	**GW**	**2.22**	**2.51**	**3.27**	**6.67**	**8.50**	**12.85**	**14.38**	**10.98**	**7.92**	**5.80**	**3.10**	**2.35**	**6.71**

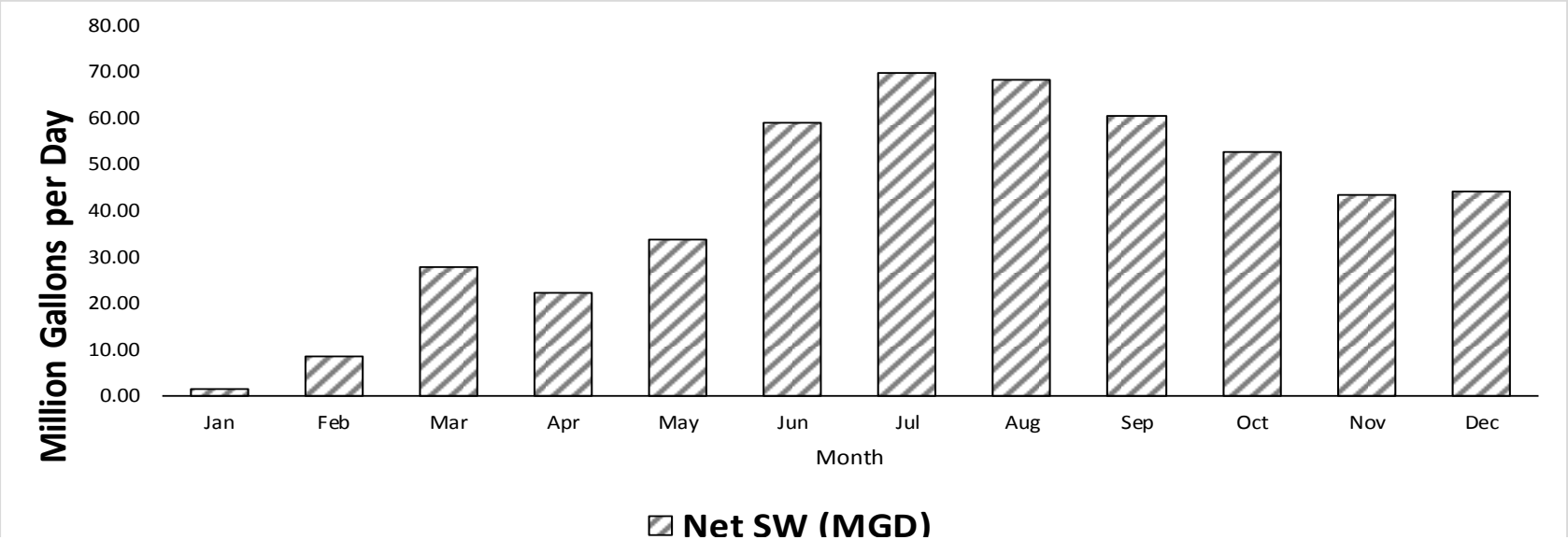
Returns (MGD)														
Category		**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**AVG**
Public Supply		30.75	31.25	15.88	28.13	14.89	13.39	12.43	12.04	11.20	10.01	11.36	12.13	16.95
Industrial/Mining/ Thermoelectric		128.34	118.38	128.17	147.67	159.60	140.35	136.70	105.07	139.53	144.62	140.29	131.61	135.03
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**159.09**	**149.63**	**144.05**	**175.79**	**174.49**	**153.75**	**149.13**	**117.11**	**150.72**	**154.63**	**151.65**	**143.73**	**151.98**

06030005-Pickwick Lake

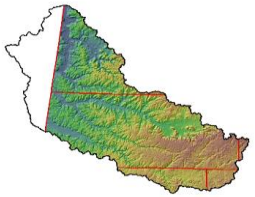
2040 FINAL DATA

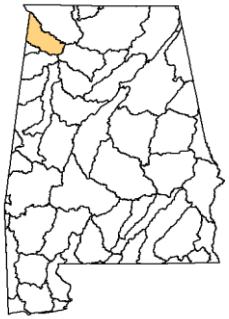
Total SW Withdrawals	SW	160.46	157.99	171.91	197.79	208.28	212.67	218.74	185.31	211.20	207.15	194.96	187.81	192.86
Total GW Withdrawals	SW	2.22	2.51	3.27	6.67	8.50	12.85	14.38	10.98	7.92	5.80	3.10	2.35	6.71
Withdrawal Total		162.68	160.50	175.18	204.47	216.78	225.52	233.11	196.28	219.13	212.95	198.06	190.16	199.57
Total Returns		**159.09**	**149.63**	**144.05**	**175.79**	**174.49**	**153.75**	**149.13**	**117.11**	**150.72**	**154.63**	**151.65**	**143.73**	151.98
Net SW (MGD)	SW	**1.37**	**8.36**	**27.86**	**22.00**	**33.79**	**58.92**	**69.61**	**68.19**	**60.48**	**52.52**	**43.31**	**44.07**	**40.87**


06030005-Pickwick Lake
2040 FINAL DATA
Million Gallons per Day
250.00
200.00
150.00
100.00
50.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

06030006-Bear





Area in AL (Square Miles)	794.7
Estimated Population (2040)	32,331
Subregion:	Middle-Tennessee-Elk

2040 Demands

2040 FINAL DATA

Withdrawals (MGD)

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply	GW	1.13	1.03	1.02	1.02	1.06	1.16	1.18	1.54	1.08	1.02	0.99	1.04	1.11
Public Supply	SW	8.24	7.40	6.86	7.04	7.30	7.74	8.02	8.43	8.39	7.54	7.65	7.81	7.70
Industrial/Mining/ Thermoelectric	GW	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Industrial/Mining/ Thermoelectric	SW	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Agriculture	GW	0.42	0.49	0.62	1.09	1.57	2.39	2.67	2.04	1.47	1.08	0.59	0.45	1.24
Agriculture	SW	0.69	0.86	1.22	2.40	3.60	5.60	6.31	4.80	3.42	2.43	1.16	0.77	2.77
Total	**SW**	**9.28**	**8.61**	**8.43**	**9.79**	**11.25**	**13.69**	**14.68**	**13.58**	**12.16**	**10.31**	**9.15**	**8.93**	**10.82**
Total	**GW**	**1.80**	**1.77**	**1.89**	**2.36**	**2.89**	**3.80**	**4.10**	**3.83**	**2.79**	**2.35**	**1.83**	**1.73**	**2.59**

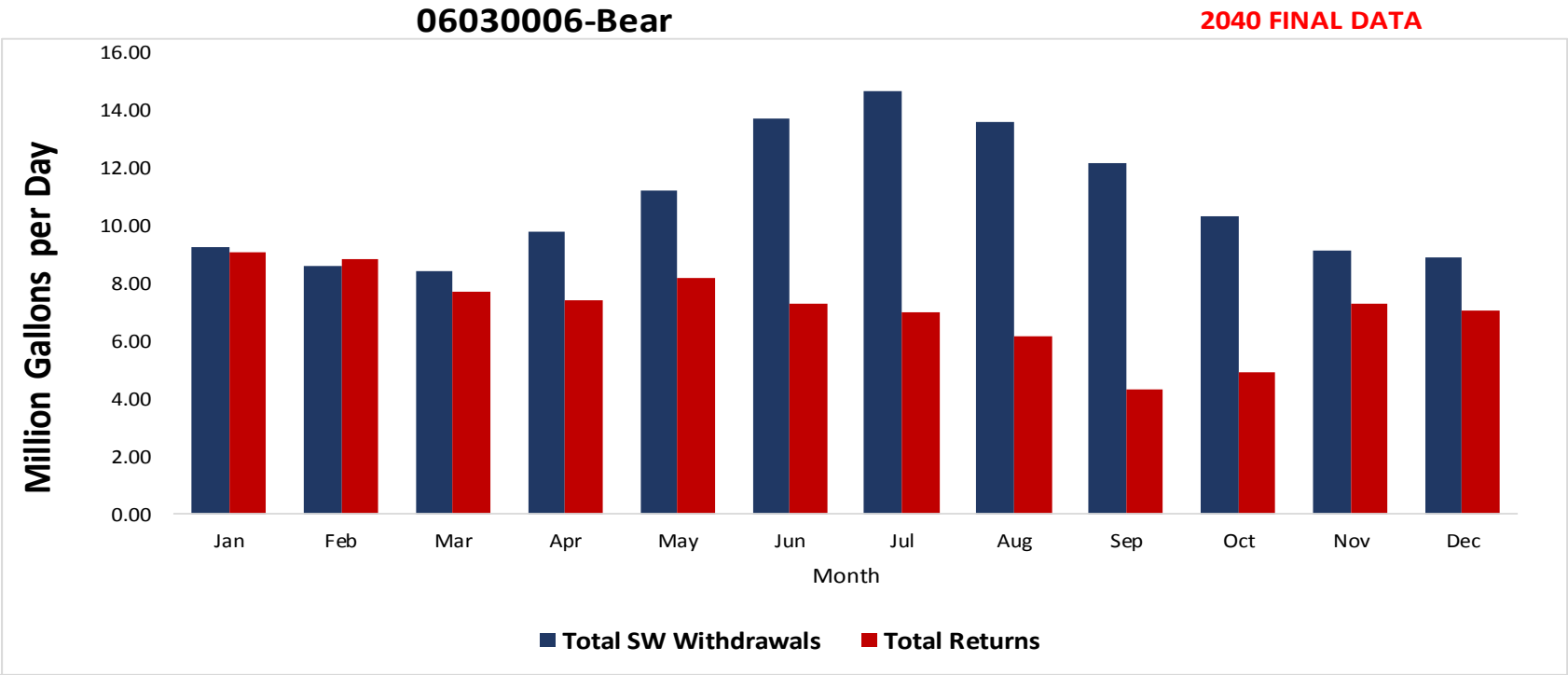
Returns (MGD)

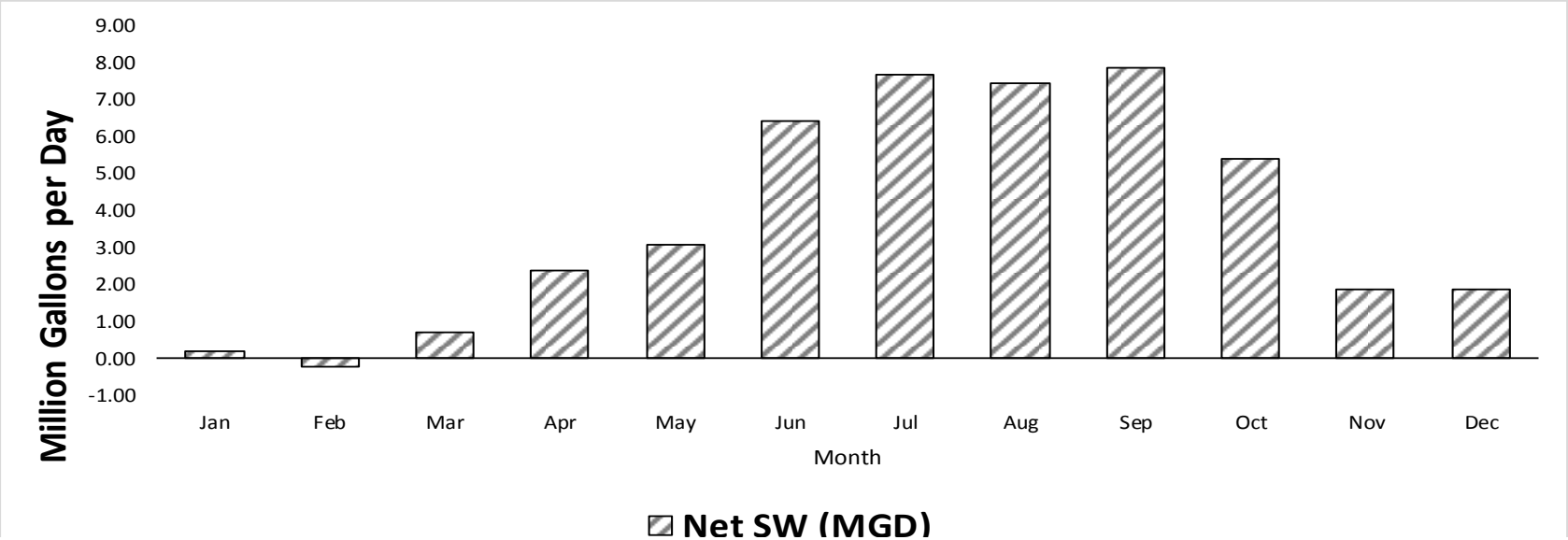
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.22	5.80	4.66	3.89	4.69	4.09	2.87	2.52	1.73	2.01	2.79	3.54	3.65
Industrial/Mining/ Thermoelectric		3.89	3.06	3.05	3.55	3.48	3.19	4.13	3.65	2.58	2.93	4.52	3.53	3.46
Agriculture		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns		**9.11**	**8.85**	**7.72**	**7.44**	**8.17**	**7.28**	**7.01**	**6.17**	**4.31**	**4.94**	**7.31**	**7.06**	**7.11**

06030006-Bear

2040 FINAL DATA

Total SW Withdrawals	SW	9.28	8.61	8.43	9.79	11.25	13.69	14.68	13.58	12.16	10.31	9.15	8.93	10.82
Total GW Withdrawals	SW	1.80	1.77	1.89	2.36	2.89	3.80	4.10	3.83	2.79	2.35	1.83	1.73	2.59
Withdrawal Total		11.08	10.38	10.32	12.15	14.14	17.48	18.77	17.41	14.95	12.67	10.98	10.67	13.42
Total Returns		**9.11**	**8.85**	**7.72**	**7.44**	**8.17**	**7.28**	**7.01**	**6.17**	**4.31**	**4.94**	**7.31**	**7.06**	7.11
Net SW (MGD)	SW	**0.17**	**-0.24**	**0.72**	**2.35**	**3.08**	**6.41**	**7.67**	**7.41**	**7.85**	**5.38**	**1.84**	**1.87**	**3.71**


06030006-Bear
2040 FINAL DATA
Million Gallons per Day
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


Million Gallons per Day
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Appendix G

Monthly and Annual Flow Assessment Site Tables

The tables for the following 186 monthly and 15 annual flow assessment sites include location information and summaries of the estimated flow methods where applicable. The root mean square error (RMSE) values are in units of cubic feet per second or in log units, depending on whether the monthly streamflow data had to be logarithmically transformed as part of the estimated flow analysis. As a result, the RMSE values for untransformed streamflow sites can only be compared with other untransformed streamflow sites; similarly, the RMSE values for logarithmically transformed streamflow sites can only be compared with other logarithmically transformed streamflow sites.

Table G-1. Monthly flow assessment sites.
(mi^2, square miles)

Map number	Subbasin	Subbasin name	Station number	Station name	Drainage area (mi^2)
1	03130002	Middle Chattahoochee - Lake Harding	02339225	Wehadkee Creek near Rock Mills, Ala.	60.2
2	03130002	Middle Chattahoochee - Lake Harding	02339495	Oseligee Creek near Lanett, Ala.	86.4
3	03130002	Middle Chattahoochee - Lake Harding	02339500	Chattahoochee River at West Point, Ga. (represents streamflow for the 03130002 - Middle Chattahoochee-Lake Harding subbasin)	3,550
4	03130003	Middle Chattahoochee - Walter F. George Res.	02341460	Chattahoochee River at 14th St at Columbus, Ga.	4,630
5	03130003	Middle Chattahoochee - Walter F. George Res.	02342500	Uchee Creek near Fort Mitchell, Ala.	322
6	03130003	Middle Chattahoochee - Walter F. George Res.	02342933	South Fork Cowikee Creek near Batesville, Ala.	112
8	03130003	Middle Chattahoochee - Walter F. George Res.	023432415	Chattahoochee River 0.36 mile downstream from W.F. George Dam near Ft. Gaines, Ga. (represents streamflow for 03130003 - Middle Chattahoochee-Walter F. George subbasin)	7,460
9	03130004	Lower Chattahoochee	02343300	Abbie Creek near Haleburg, Ala.	146
10	03130004	Lower Chattahoochee	02343801	Chattahoochee River at Columbia, Ala.	8,210
11	03130004	Lower Chattahoochee	02344040	Chattahoochee River near Steam Mill, Ga. (represents streamflow for the 03130004 - Lower Chattahoochee subbasin)	8,510
12	03130012	Chipola	03130012	Chipola River Basin subbasin in Alabama	200.6
13	03130012	Chipola	02358789	Chipola River at Marianna, Fla.	464
14	03140201	Upper Choctawhatchee	02360000	West Fork Choctawhatchee River at Blue Springs, Ala.	86.8
16	03140201	Upper Choctawhatchee	02360500	East Fork Choctawhatchee River near Midland City, Ala.	291
17	03140201	Upper Choctawhatchee	02361000	Choctawhatchee River near Newton, Ala.	686
18	03140201	Upper Choctawhatchee	02361500	Choctawhatchee River near Bellwood, Ala.	1,280
19	03140201	Upper Choctawhatchee	02362000	Choctawhatchee River near Geneva, Ala.	1,346
20	03140201	Upper Choctawhatchee	03140201	Mouth of Upper Choctawhatchee River subbasin	1,560
21	03140202	Pea	02363000	Pea River near Ariton, Ala.	498
22	03140202	Pea	02364500	Pea River near Samson, Ala.	1,182
23	03140202	Pea	02365000	Pea River near Geneva, Ala. (represents streamflow for the 03140202 - Pea River Subbasin)	1,552
24	03140203	Lower Choctawhatchee	03140203	Lower Choctawhatchee River subbasin in Alabama	3,159
25	03140203	Lower Choctawhatchee	02365200	Choctawhatchee River near Pittman, Fla.	3,209
26	03140103	Yellow	02367800	Yellow River near Wing, Ala. (represents streamflow for 03140103 - Yellow River subbasin in Alabama)	461
27	03140104	Blackwater	02369800	Blackwater River near Bradley, Ala. (represents streamflow for 03140104 - Blackwater River subbasin in Alabama)	87.7
28	03140301	Upper Conecuh	02371000	Conecuh River near Troy, Ala.	257
29	03140301	Upper Conecuh	02371500	Conecuh River at Brantley, Ala.	500
30	03140302	Patsaliga Creek	02372250	Patsaliga Creek near Brantley, Ala.	442
31	03140302	Patsaliga Creek	03140302	Mouth of Patsaliga Creek subbasin	593
32	03140301	Upper Conecuh	02372422	Conecuh River below Point A Dam at River Falls, Ala.	1,273
33	03140301	Upper Conecuh	03140301	Mouth of Upper Conecuh River subbasin	1446
34	03140303	Sepulga	02373000	Sepulga River near McKenzie, Ala.	470
35	03140303	Sepulga	02373500	Pigeon Creek near Thad, Ala.	307
36	03140303	Sepulga	02373800	Sepulga River at Brooklyn, Ala. (represents streamflow for 03140303 - Sepulga River Subbasin)	1,017
37	03140304	Lower Conecuh	02374000	Conecuh River near Brooklyn, Ala.	2,495
38	03140304	Lower Conecuh	02374250	Conecuh River at State Highway 41 near Brewton, Ala.	2,661
39	03140304	Lower Conecuh	02374500	Murder Creek near Evergreen, Ala.	176
40	03140304	Lower Conecuh	02374700	Murder Creek at Brewton, Ala.	435
41	03140304	Lower Conecuh	02374745	Burnt Corn Creek at State Highway 41 near Brewton, Ala.	182
42	03140304	Lower Conecuh	02374760	Conecuh River near Pollard, Alabama (represents streamflow for the 03140304 - Lower Conecuh River Subbasin in Alabama)	3,335
43	03140305	Escambia	02374950	Big Escambia Creek near Stanley Crossroads, Ala.	193
44	03140305	Escambia	02375000	Big Escambia Creek at Flomaton, Ala. (represents streamflow for 03140305 - Big Escambia Creek Subbasin in Alabama)	330
45	03140306	Escambia	02375500	Escambia River near Century, Fla.	3817
46	03140106	Perdido	02376500	Perdido River at Barrineau Park, Fla.	394
47	03140106	Perdido	02377570	Styx River near Elsanor, Ala.	192
49	03140106	Perdido	03140106	Mouth of Perdido River subbasin	920
51	03150105	Upper Coosa	02397000	Coosa River near Rome, Ga.	4,040
52	03150105	Upper Coosa	02398300	Chattooga River above Gaylesville, Ala.	366

Table G-1. (continued) Monthly flow assessment sites.
(mi2, square miles)

Map number	Subbasin	Subbasin name	Station number	Station name	Drainage area (mi^2)
53	03150105	Upper Coosa	02399200	Little River near Blue Pond, Ala.	199
54	03150105	Upper Coosa	02399500	Coosa River at Leesburg, Ala.	5,270
55	03150105	Upper Coosa	02400100	Terrapin Creek at Ellisville, Ala.	252
56	03150105	Upper Coosa	03150105	Mouth of Upper Coosa River subbasin	5,588
57	03150106	Upper Coosa	02400500	Coosa River at Gadsden, Ala.	5,805
58	03150106	Middle Coosa	02401000	Big Wills Creek near Reece City, Ala.	182
59	03150106	Middle Coosa	02401390	Big Canoe Creek at Ashville, Ala.	141
60	03150106	Middle Coosa	02401460	Gulf Creek near Ashville, Ala.	14.3
61	03150106	Middle Coosa	02401470	Little Canoe Creek near Steele, Ala.	22.3
65	03150106	Middle Coosa	02404400	Choccolocco Creek at Jackson Shoals near Lincoln, Ala.	481
67	03150106	Middle Coosa	02405500	Kelly Creek near Vincent, Ala.	193
68	03150106	Middle Coosa	02406500	Talladega Creek at Alpine, Ala.	150
69	03150106	Middle Coosa	02407000	Coosa River at Childersburg, Ala. (represents streamflow for 03150106 - Middle Coosa River Subbasin)	8,392
70	03150107	Lower Coosa	02407514	Yellowleaf Creek near Westover	142
71	03150107	Lower Coosa	02408540	Hatchet Creek below Rockford, Ala.	263
72	03150107	Lower Coosa	02409000	Weogufka Creek near Weogufka, Ala.	73.4
73	03150107	Lower Coosa	02411000	Coosa River at Jordan Dam near Wetumpka, Ala. (represents streamflow for 03150107 Lower Coosa River Subbasin)	10,102
74	03150108	Upper Tallapoosa	02411930	Tallapoosa River below Tallapoosa, Ga.	272
75	03150108	Upper Tallapoosa	02412000	Tallapoosa River near Heflin, Ala.	448
76	03150108	Upper Tallapoosa	02413210	Little Tallapoosa River at St. Hwy 10 near Bowdon, Ga.	245
77	03150108	Upper Tallapoosa	02413300	Little Tallapoosa River near Newell, Ala.	406
78	03150108	Upper Tallapoosa	02414000	Tallapoosa River near Cragford, Ala. (represents streamflow for the 03150108 - Upper Tallapoosa River Subbasin)	1,454
79	03150109	Middle Tallapoosa	02414500	Tallapoosa River at Wadley, Ala.	1,675
80	03150109	Middle Tallapoosa	02414715	Tallapoosa River near New Site, Ala.	2,058
81	03150109	Middle Tallapoosa	02415000	Hillabee Creek near Hackneyville, Ala.	190
82	03150109	Middle Tallapoosa	02417500	Lake Martin near Tallassee, Ala. (represents streamflow for the 03150109 - Middle Tallapoosa Subbasin)	2,984
83	03150110	Lower Tallapoosa	02418230	Sougahatchee Creek near Loachapoka, Ala.	71.3
84	03150110	Lower Tallapoosa	02418500	Tallapoosa River below Tallassee, Ala.	3,328
85	03150110	Lower Tallapoosa	02419000	Uphapee Creek near Tuskegee, Ala.	333
86	03150110	Lower Tallapoosa	02419890	Tallapoosa River near Montgomery, Ala. (represents streamflow for the 03150110 - Lower Tallapoosa River Subbasin)	4,646
87	03150201	Upper Alabama	02420000	Alabama River near Montgomery, Ala.	15,087
88	03150201	Upper Alabama	02421000	Catoma Creek near Montgomery, Ala.	290
89	03150201	Upper Alabama	02421115	Pintlalla Creek near Pintlalla, Ala.	59.3
90	03150201	Upper Alabama	02422000	Big Swamp Creek near Lowndesboro, Ala.	244
91	03150201	Upper Alabama	02422500	Mulberry Creek at Jones, Ala.	203
92	03150201	Upper Alabama	02423000	Alabama River at Selma, Ala. (represents streamflow for the 03150201 - Upper Alabama River Subbasin)	17,095
93	03150202	Cahaba	02423555	Cahaba River near Helena, Ala.	335
94	03150202	Cahaba	02423647	Cahaba River near West Blocton, Ala.	593
95	03150202	Cahaba	02423800	Little Cahaba River near Brierfield, Ala.	147
96	03150202	Cahaba	02424000	Cahaba River at Centreville, Ala.	1,027
97	03150202	Cahaba	02424500	Cahaba River at Sprott, Ala.	1,370
98	03150202	Cahaba	02424940	Oakmulgee Creek near Augustin, Ala.	220
99	03150202	Cahaba	02425000	Cahaba River near Marion Junction, Ala. (represents streamflow for the 03150202 - Cahaba River Basin Subbasin)	1,766
100	03150203	Middle Alabama	02425500	Cedar Creek at Minter, Ala.	211
101	03150203	Middle Alabama	02426000	Bogue Chitto Creek near Browns, Ala.	95.4
102	03150203	Middle Alabama	02427000	Bogue Chitto Creek near Orrville, Ala.	293
103	03150203	Middle Alabama	02427250	Pine Barren Creek near Snow Hill, Ala.	261
104	03150203	Middle Alabama	02427700	Turkey Creek at Kimbrough, Ala.	97.5
105	03150203	Middle Alabama	02428000	Alabama River near Coy, Ala. (represents streamflow for the 03150203 - Middle Alabama River Subbasin)	21,140
106	03150204	Lower Alabama	02428400	Alabama River at Claiborne Lock and Dam near Monroeville, Ala.	21,473
107	03150204	Lower Alabama	02428500	Big Flat Creek near Fountain, Ala.	247

Table G-1. (continued) Monthly flow assessment sites.
(mi^2, square miles)

Map number	Subbasin	Subbasin name	Station number	Station name	Drainage area (mi^2)
108	03150204	Lower Alabama	02429000	Limestone Creek near Monroeville, Ala.	121
109	03150204	Lower Alabama	02429595	Little River near Uriah, Ala.	95.2
110	03150204	Lower Alabama	03150204	Mouth of Alabama River subbasin	22,750
111	03160103	Buttahatchee	02438000	Buttahatchee River below Hamilton, Ala.	277
113	03160103	Buttahatchee	02439400	Buttahatchee River near Aberdeen, Miss. (represents streamflow for the 03160103 - Buttahatchee River Subbasin in Alabama)	798
115	03160105	Luxapallila	02442500	Luxapallila Creek at Millport, Ala.	247
116	03160105	Luxapallila	02443000	Luxapallila Creek at Steens, Miss. (represents streamflow for the 03160105 - Luxapallila Creek Subbasin in Alabama)	309
117	03160105	Luxapallila	02443500	Luxapallila Creek near Columbus, Miss.	715
118	03160106	Middle Tombigbee	02444000	Coal Fire Creek near Pickensville, Ala.	126
119	03160106	Middle Tombigbee	02444160	Tombigbee River at Bevill Lock and Dam near Pickensville, Ala.	5,750
120	03160106	Middle Tombigbee	02445000	Lubbub Creek near Carrollton, Ala.	112
121	03160107	Sipsey	02445500	Sipsey River at Fayette, Ala.	282
122	03160107	Sipsey	02446500	Sipsey River near Elrod, Ala.	528
123	03160107	Sipsey	02447000	Sipsey River near Pleasant Ridge, Ala. (represents streamflow for the 03160107 - Sipsey River Subbasin)	769
124	03160106	Middle Tombigbee	02447025	Tombigbee River at Heflin Lock and Dam near Gainesville, Ala.	7,230
125	03160108	Noxubee	02448500	Noxubee River near Geiger, Ala.	1,097
126	03160108	Noxubee	02448900	Bodka Creek near Geiger, Ala.	158
127	03160108	Noxubee	03160108	Mouth of Noxubee River subbasin	1,460
128	03160106	Middle Tombigbee	02449245	Brush Creek near Eutaw, Ala.	43.2
129	03160106	Middle Tombigbee	03160106	Mouth of Upper Tombigbee River subbasin	9078
130	03160109	Mulberry Fork	02450000	Mulberry Fork near Garden City, Ala.	358
131	03160109	Mulberry Fork	02450180	Mulberry Fork near Arkadelphia, Ala.	487
132	03160110	Sipsey Fork	02450250	Sipsey Fork near Grayson, Ala.	92.1
133	03160110	Sipsey Fork	02450825	Clear Creek at New Hope Church near Poplar Springs, Ala.	101
134	03160110	Sipsey Fork	03160110	Mouth of Sipsey Fork subbasin	945
135	03160109	Mulberry Fork	02453000	Blackwater Creek near Manchester, Ala.	181
136	03160109	Mulberry Fork	02453500	Mulberry Fork at Cordova, Ala.	1,916
137	03160109	Mulberry Fork	02454055	Lost Creek above Parrish, Ala.	143
139	03160109	Mulberry Fork	03160109	Mouth of Mulberry Fork subbasin	2390
140	03160111	Locust Fork	02455000	Locust Fork near Cleveland, Ala.	303
141	03160111	Locust Fork	02455280	Little Warrior River near Locust Fork, Ala.	186
142	03160111	Locust Fork	02455500	Locust Fork at Trafford, Ala.	624
143	03160111	Locust Fork	02456000	Turkey Creek at Morris, Ala.	80.9
144	03160111	Locust Fork	02456500	Locust Fork at Sayre, Ala.	885
145	03160111	Locust Fork	02457670	Fivemile Creek near Graysville, Ala.	91.7
146	03160111	Locust Fork	02460500	Village Creek near Adamsville, Ala.	83.5
147	03160111	Locust Fork	03160111	Mouth of Locust Fork subbasin	1210
148	03160112	Upper Black Warrior	02462000	Valley Creek near Oak Grove, Ala.	148
149	03160112	Upper Black Warrior	02462500	Black Warrior River at Bankhead Lock and Dam near Bessemer, Ala.	3,981
151	03160112	Upper Black Warrior	02462951	Black Warrior River at Holt Lock and Dam near Holt, Ala.	4,219
152	03160112	Upper Black Warrior	02463500	Hurricane Creek near Holt, Ala.	108
153	03160112	Upper Black Warrior	02464000	North River near Samantha, Ala.	223
154	03160112	Upper Black Warrior	02465000	Black Warrior River at Oliver Lock and Dam at Northport, Ala. (represents streamflow for the 03160112 - Upper Black Warrior River subbasin)	4,820
155	03160113	Lower Black Warrior	02465400	Big Sandy Creek at Duncanville, Ala.	55.9
156	03160113	Lower Black Warrior	02465493	Elliotts Creek at Moundville, Ala.	32.3
158	03160113	Lower Black Warrior	02466030	Black Warrior River at Selden Lock and Dam near Eutaw, Ala.	5,810
160	03160113	Lower Black Warrior	03160113	Mouth of Lower Black Warrior River subbasin	6300
161	03160201	Middle Tombigbee-Chickasaw	02467000	Tombigbee River at Demopolis Lock and Dam near Coatopa, Ala.	15,385
162	03160202	Sucarnoochee	02467500	Sucarnoochee River at Livingston, Ala.	607
163	03160202	Sucarnoochee	02468000	Alamuchee Creek near Cuba, Ala.	62.3
164	03160202	Sucarnoochee	03160202	Mouth of Sucarnoochee River subbasin	956
166	03160201	Middle Tombigbee-Chickasaw	02469000	Kinterbish Creek near York, Ala.	90.9
167	03160201	Middle Tombigbee-Chickasaw	02469500	Tuckabum Creek near Butler, Ala.	115
168	03160201	Middle Tombigbee-Chickasaw	02469550	Horse Creek near Sweetwater, Ala.	60.4

Table G-1. (continued) Monthly flow assessment sites.
(mi^2, square miles)

Map number	Subbasin	Subbasin name	Station number	Station name	Drainage area (mi^2)
169	03160201	Middle Tombigbee-Chickasaw	02469600	Bashi Creek near Campbell, Ala.	76.6
170	03160201	Middle Tombigbee-Chickasaw	02469700	Okatuppa Creek at Gilbertown, Ala.	148
171	03160201	Middle Tombigbee-Chickasaw	02469761	Tombigbee River at Coffeeville Lock and Dam near Coffeeville, Ala. (represents streamflow for the 03160201 - Middle Tombigbee-Chickasaw River subbasin)	18,417
172	03160203	Lower Tombigbee	02469800	Satilpa Creek near Coffeeville, Ala.	164
173	03160203	Lower Tombigbee	02470100	Bassett Creek at Walker Springs, Ala.	195
174	03160203	Lower Tombigbee	03160203	Mouth of Lower Tombigbee River HUC	20,057
175	03160204	Mobile-Tensaw	02470629	Mobile River at River Mile 31 at Bucks, Ala. (Streamflow for 02470629 combined with streamflow for 02471019, Tensaw River near Mt. Vernon, to represent streamflow for the 03160204 - Mobile-Tensaw River Subbasin)	43,000
176	03160204	Mobile-Tensaw	02471001	Chickasaw Creek near Kushla, Ala.	125
177	03170008	Escatawpa	02479431	Pond Creek near Deer Park, Ala.	20.4
178	03170008	Escatawpa	02479560	Escatawpa River near Agricola, Miss.	562
179	03170008	Escatawpa	03170008	Escatawpa River subbasin in Alabama	767
180	06030001	Guntersville Lake	03571850	Tennessee River at South Pittsburg, Tenn.	22,640
181	06030001	Guntersville Lake	03572110	Crow Creek at Bass, Ala.	131
182	06030001	Guntersville Lake	03572900	Town Creek near Geraldine, Ala.	141
183	06030001	Guntersville Lake	03573000	Short Creek near Albertville, Ala.	91.6
184	06030001	Guntersville Lake	03573182	Scarham Creek near McVille, Ala.	50
185	06030001	Guntersville Lake	03574000	Guntersville Lake near Guntersville, Ala. (represents streamflow for the 06030001 - Guntersville Lake Subbasin)	24,450
186	06030002	Wheeler Lake	03574500	Paint Rock River near Woodville, Ala.	320
187	06030002	Wheeler Lake	03575000	Flint River near Chase, Ala.	342
188	06030002	Wheeler Lake	03575100	Flint River near Brownsboro, Ala.	375
189	06030002	Wheeler Lake	03576148	Cotaco Creek at Florette, Ala.	136
190	06030002	Wheeler Lake	03576250	Limestone Creek near Athens, Ala.	119
191	06030002	Wheeler Lake	03576400	Piney Creek near Athens, Ala.	55.8
192	06030002	Wheeler Lake	03576500	Flint Creek near Falkville, Ala.	86.3
193	06030002	Wheeler Lake	03577000	West Flint Creek near Oakville, Ala.	87.6
194	06030004	Lower Elk	03584600	Elk River at Prospect, Tenn. (represents streamflow for the 06030004 - Lower Elk River Subbasin)	1,805
195	06030002	Wheeler Lake	03586000	Wheeler Lake near Decautur, Ala. (represents streamflow for the 06030002 - Wheeler Lake Subbasin)	29,590
196	06030005	Pickwick Lake	03586500	Big Nance Creek at Courtland, Ala.	166
197	06030005	Pickwick Lake	03588500	Shoal Creek at Iron City, Tenn.	348
198	06030005	Pickwick Lake	03589000	Wilson Lake near Florence, Ala.	30,750
199	06030005	Pickwick Lake	03590000	Cypress Creek near Florence, Ala.	209
200	06030006	Bear	03592500	Bear Creek at Bishop, Ala. (represents streamflow for 06030006 - Bear Creek Subbasin)	667
201	06030005	Pickwick Lake	06030005	Pickwick Lake subbasin in Alabama	32,790

Table G-2. Annual flow assessment sites.
(mi^2, square miles)

Map number	Subbasin	Subbasin name	Station number	Station name	Drainage area (mi^2)
7	03130003	Middle Chattahoochee - Walter F. George Res.	02343000	Barbour Creek near Eufaula, Ala.	95.4
15	03140201	Upper Choctawhatchee	02360290	West Fork Choctawhatchee River near Ozark, Ala.	340
48	03140106	Perdido	02377960	Blackwater River near Robertsdale, Ala.	56.6
50	03160205	Mobile Bay	02378500	Fish River near Silver Hill, Ala.	55.3
62	03150106	Middle Coosa	02401700	Ohatchee Creek at Reads, Ala.	39.7
63	03150106	Middle Coosa	02401800	Tallasseehatchee Creek near Wellington, Ala.	92.2
64	03150106	Middle Coosa	02404000	Choccolocco Creek near Jenifer, Ala.	277
66	03150106	Middle Coosa	02404500	Choccolocco Creek near Lincoln, Ala.	496
112	03160103	Buttahatchee	02439000	Buttahatchee River near Sulligent, Ala.	472
114	03160105	Luxapallila	02442000	Luxapallila Creek near Fayette, Ala.	130
138	03160109	Mulberry Fork	02454200	Wolf Creek near Oakman, Ala.	85
150	03160112	Upper Black Warrior	02462800	Davis Creek below Abernant, Ala.	45.3
157	03160113	Lower Black Warrior	02465500	Fivemile Creek near Greensboro, Ala.	73.6
159	03160113	Lower Black Warrior	02466500	Big Prairie Creek near Gallion, Ala.	171
165	03160201	Middle Tombigbee-Chickasaw	02468500	Chickasaw Bogue near Linden, Ala.	257

Table G-3. Monthly flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable)

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE	Estimated period
02339225	Wehadkee Creek near Rock Mills, Ala.	Log MOVE.1	02413300	136	0.85	0.157	0.84	1975-78, 1990-2014
02339495	Oseligee Creek near Lanett, Ala.	Log 2nd order polynomial	02342500	98	0.78	0.341	0.77	1975-2006
02339500	Chattahoochee River at West Point, Ga. (represents streamflow for the 03130002 - Middle Chattahoochee-Lake Harding subbasin)	Gaged record	--	--	--	--	--	--
02341460	Chattahoochee River at 14th St at Columbus, Ga.	Gaged record	--	--	--	--	--	--
02342500	Uchee Creek near Fort Mitchell, Ala.	Gaged record	--	--	--	--	--	--
02342933	South Fork Cowikee Creek near Batesville, Ala.	Log MOVE.1	02363000	372	0.89	0.216	0.89	2011-2014
023432415	Chattahoochee River 0.36 mile downstream from W.F. George Dam near Ft. Gaines, Ga. (represents streamflow for 03130003 - Middle Chattahoochee-Walter F. George subbasin)	Log MOVE.1	02343801	74	0.99	0.029	0.99	1975-2009
02343300	Abbie Creek near Haleburg, Ala.	Log MOVE.1	02361000	382	0.93	0.083	0.93	1993-2014
02343801	Chattahoochee River at Columbia, Ala.	Gaged record	--	--	--	--	--	--
02344040	Chattahoochee River near Steam Mill, Ga. (represents streamflow for the 03130004 - Lower Chattahoochee subbasin)	Drainage area ratio	02343801	--	--	--	--	1975-2014
03130012	Chipola River Basin subbasin in Alabama	Drainage area ratio	02358789	--	--	--	--	1975-2014
02358789	Chipola River at Marianna, Fla.	Log 2nd order polynomial	02359000	180	0.96	0.073	0.96	1975-99
02360000	West Fork Choctawhatchee River at Blue Springs, Ala.	Log MOVE.1	02361000	120	0.89	0.098	0.88	1975-2014
02360500	East Fork Choctawhatchee River near Midland City, Ala.	2nd order polynomial	02361000	136	0.97	40.04	0.97	1975-2014
02361000	Choctawhatchee River near Newton, Ala.	Gaged record	--	--	--	--	--	--
02361500	Choctawhatchee River near Bellwood, Ala.	2nd order polynomial	02361000	212	0.95	294.63	0.95	1975-2000
02362000	Choctawhatchee River near Geneva, Ala.	2nd order polynomial	02361000	38	0.97	226.29	0.97	1975-2014
03140201	Mouth of Upper Choctawhatchee River subbasin	Drainage area ratio	02362000	--	--	--	--	1975-2014
02363000	Pea River near Ariton, Ala.	Log 2nd order polynomial	02361000	708	0.9	0.161	0.89	1975-87
02364500	Pea River near Samson, Ala.	Log 2nd order polynomial	02363000	528	0.95	0.087	0.94	1987-2002
		Log 2nd order polynomial	02365500	144	0.94	0.097	0.94	1975-87
02365000	Pea River near Geneva, Ala. (represents streamflow for the 03140202 - Pea River Subbasin)	Drainage area ratio	02365200	--	--	--	--	1975-2014
03140203	Lower Choctawhatchee River Subbasin in Alabama	Drainage area ratio	02365200	--	--	--	--	1975-2014
02365200	Choctawhatchee River near Pittman, Fla.	MOVE.1	02365500	231	0.98	487.9	0.98	1975-76, 1981-84
		Log 2nd order polynomial	02366500	255	0.95	0.085	0.95	1994-98
02367800	Yellow River near Wing, Ala. (represents streamflow for 03140103 - Yellow River subbasin in Alabama)	MOVE.1	02368000	108	0.98	75.22	0.98	1975-93, 1996-2014
		Log MOVE.1	02371500	108	0.85	0.124	0.85	1993-96
02369800	Blackwater River near Bradley, Ala. (represents streamflow for 03140104 - Blackwater River subbasin in Alabama)	Gaged record	--	--	--	--	--	--
02371000	Conecuh River near Troy, Ala.	Log 2nd order polynomial	02371500	120	0.96	0.122	0.96	1975-2014
02371500	Conecuh River at Brantley, Ala.	Gaged record	--	--	--	--	--	--
02372250	Patsaliga Creek near Brantley, Ala.	Gaged record	--	--	--	--	--	--
03140302	Mouth of Patsaliga Creek Subbasin	Drainage area ratio	02372250	--	--	--	--	1975-2014
02372422	Conecuh River below Point A Dam at River Falls, Ala.	MOVE.1	02371500 and 02372250	165	0.99	181.22	0.99	1975-99, 2013-2014
03140301	Mouth of Upper Conecuh River Subbasin	Drainage area ratio	02372422	--	--	--	--	1975-2014
02373000	Sepulga River near McKenzie, Ala.	Gaged record	--	--	--	--	--	--
02373500	Pigeon Creek near Thad, Ala.	Log 3rd order polynomial	02373000	360	0.94	0.115	0.94	1975-2014

Table G-3. (continued) Monthly flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable)

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE	Estimated period
02373800	Sepulga River at Brooklyn, Ala. (represents streamflow for 03140303 - Sepulga River Subbasin)	Log MOVE.1	02373000	99	0.98	0.068	0.98	1983-2014
02374000	Conecuh River near Brooklyn, Ala.	2nd order polynomial	02375500	271	0.98	511.65	0.98	1975-2014
02374250	Conecuh River at State Highway 41 near Brewton, Ala.	Log MOVE.1	02375500	185	0.98	0.065	0.98	1975-99
02374500	Murder Creek near Evergreen, Ala.	Gaged record	--	--	--	--	--	--
02374700	Murder Creek at Brewton, Ala.	Log 2nd order polynomial	02374500	186	0.91	0.099	0.91	1975-99
02374745	Burnt Corn Creek at State Highway 41 near Brewton, Ala.	Log 3rd order polynomial	02374500	186	0.84	0.162	0.84	1975-99
02374760	Conecuh River near Pollard, Alabama (represents streamflow for the 03140304 - Lower Conecuh River Subbasin in Alabama)	Sum of inflows	02374250, 02374700, and 02374745	--	--	--	--	1975-2014
02374950	Big Escambia Creek near Stanley Crossroads, Ala.	Log 2nd order polynomial	02374500	172	0.82	0.132	0.82	1975-99
02375000	Big Escambia Creek at Flomaton, Ala. (represents streamflow for 03140305 - Big Escambia Creek Subbasin in Alabama)	Log 2nd order polynomial	02374500	156	0.84	0.099	0.83	1975-2014
02375500	Escambia River near Century, Fla.	Gaged record	--	--	--	--	--	--
02376500	Perdido River at Barrineau Park, Fla.	Gaged record	--	--	--	--	--	--
02377570	Styx River near Elsanor, Ala.	Log MOVE.1	02376500	300	0.91	0.092	0.9	1975-87, 2012-13
03140106	Mouth of Perdido River Subbasin	Drainage area ratio	02376500 and 02377570	--	--	--	--	1975-2014
02397000	Coosa River near Rome, Ga.	Gaged record	--	--	--	--	--	--
02398300	Chattooga River above Gaylesville, Ala.	2nd order polynomial	02398000	360	0.98	78.04	0.98	1975-84
02399200	Little River near Blue Pond, Ala.	Gaged record	--	--	--	--	--	--
02399500	Coosa River at Leesburg, Ala.	MOVE.1	02400500	252	0.99	475.95	0.99	1975-2014
02400100	Terrapin Creek at Ellisville, Ala.	Log 4th order polynomial	02412000	456	0.89	0.117	0.99	1975-80
03150105	Mouth of Upper Coosa River Subbasin	Sum of inflows	02399500 and 02400100	--	--	--	--	1975-2014
02400500	Coosa River at Gadsden, Ala.	Log MOVE.1	02407000	468	0.98	0.043	0.98	1975-2014
02401000	Big Wills Creek near Reece City, Ala.	Log 3rd order polynomial	02399200	444	0.87	0.14	0.87	1975-86
02401390	Big Canoe Creek at Ashville, Ala.	Gaged record	--	--	--	--	--	--
02401460	Gulf Creek near Ashville, Ala.	MOVE.1	02401390	84	0.9	10.9	0.9	1975-78, 1985-2014
02401470	Little Canoe Creek near Steele, Ala.	MOVE.1	02401390	157	0.9	11.04	0.9	1975-82, 1995-2014
02404400	Choccolocco Creek at Jackson Shoals near Lincoln, Ala.	Log 4th order polynomial	02412000	444	0.89	0.119	0.89	1975-84
02405500	Kelly Creek near Vincent, Ala.	Log 2nd order polynomial	02401390	396	0.91	0.214	0.91	1975-86
02406500	Talladega Creek at Alpine, Ala.	Log 2nd order polynomial	02408540	324	0.89	0.111	0.89	1975-87
02407000	Coosa River at Childersburg, Ala. (represents streamflow for 03150106 - Middle Coosa River Subbasin)	MOVE.1	02411000	624	0.99	1344.02	0.99	1978-2014
02407514	Yellowleaf Creek near Westover	Log 2nd order polynomial	02424000	108	0.89	0.248	0.89	1975-2005
02408540	Hatchet Creek below Rockford, Ala.	Gaged record	--	--	--	--	--	--
02409000	Weogufka Creek near Weogufka, Ala.	Log 3rd order polynomial	02408540	93	0.95	0.134	0.95	1975-2014
02411000	Coosa River at Jordan Dam near Wetumpka, Ala. (represents streamflow for 03150107 Lower Coosa River Subbasin)	Log 2nd order polynomial	02419890 and 0242000	144	0.99	0.037	0.99	2013-14
02411930	Tallapoosa River below Tallapoosa, Ga.	2nd order polynomial	02412000	154	0.99	23.38	0.99	1975-99, 2004-05

Table G-3. (continued) Monthly flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable)

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE	Estimated period
02412000	Tallapoosa River near Heflin, Ala.	Gaged record	--	--	--	--	--	--
02413210	Little Tallapoosa River at St. Hwy 10 near Bowdon, Ga.	Log MOVE.1	02413300	77	0.98	0.073	0.98	1975-2008
02413300	Little Tallapoosa River near Newell, Ala.	Log 2nd order polynomial	02412000 and 02414500	84	0.97	0.073	0.97	1975
02414000	Tallapoosa River near Cragford, Ala. (represents streamflow for the 03150108 - Upper Tallapoosa River Subbasin)	MOVE.1	02414500	72	0.99	99.85	0.99	1975-2014
02414500	Tallapoosa River at Wadley, Ala.	Gaged record	--	--	--	--	--	--
02414715	Tallapoosa River near New Site, Ala.	Log MOVE.1	02414500	346	0.96	0.076	0.96	1975-85
02415000	Hillabee Creek near Hackneyville, Ala.	Log MOVE.1	02408540	348	0.95	0.106	0.95	1975-85
02417500	Lake Martin near Tallassee, Ala. (represents streamflow for the 03150109 - Middle Tallapoosa Subbasin)	Drainage area ratio	02418500 and 02418230	--	--	--	--	1975-2014
02418230	Sougahatchee Creek near Loachapoka, Ala.	Log 2nd order polynomial	02419000	178	0.88	0.145	0.88	1975-99
02418500	Tallapoosa River below Tallassee, Ala.	Log MOVE.1	02419000 and 02419890	216	0.91	0.103	0.91	2013-14
02419000	Uphapee Creek near Tuskegee, Ala.	Gaged record	--	--	--	--	--	--
02419890	Tallapoosa River near Montgomery, Ala. (represents streamflow for the 03150110 - Lower Tallapoosa River Subbasin)	Log MOVE.1	02418500 and 02419000	216	0.94	0.091	0.94	1975-95
02420000	Alabama River near Montgomery, Ala.	MOVE.1	02411000	273	0.98	2925.34	0.98	1990 - 2001
02421000	Catoma Creek near Montgomery, Ala.	Gaged record	--	--	--	--	--	--
02421115	Pintlalla Creek near Pintlalla, Ala.	Log 2nd order polynomial	02421000	36	0.86	0.384	0.85	1975-98, 2001-14
02422000	Big Swamp Creek near Lowndesboro, Ala.	Log 2nd order polynomial	02421000	231	0.84	0.478	0.84	1975-2014
02422500	Mulberry Creek at Jones, Ala.	Gaged record	--	--	--	--	--	--
02423000	Alabama River at Selma, Ala. (represents streamflow for the 03150201 - Upper Alabama River Subbasin)	MOVE.1	02420000	504	0.99	2084.49	0.99	1975-2014
02423555	Cahaba River near Helena, Ala.	Log 2nd order polynomial	02424000	234	0.95	0.101	0.95	1975-95
02423647	Cahaba River near West Blocton, Ala.	Log 2nd order polynomial	02424000	108	0.98	0.078	0.98	1984-2014
02423800	Little Cahaba River near Brierfield, Ala.	3rd order polynomial	02424000	154	0.97	34.36	0.97	1975-2014
02424000	Cahaba River at Centreville, Ala.	Gaged record	--	--	--	--	--	--
02424500	Cahaba River at Sprott, Ala.	MOVE.1	02424000	372	0.98	300.57	0.98	1975-2014
02424940	Oakmulgee Creek near Augustin, Ala.	Log 3rd order polynomial	02425000	144	0.93	0.118	0.93	1987-2014
02425000	Cahaba River near Marion Junction, Ala. (represents streamflow for the 03150202 - Cahaba River Basin Subbasin)	Gaged record	--	--	--	--	--	--
02425500	Cedar Creek at Minter, Ala.	Log 3rd order polynomial	02373000	315	0.74	0.331	0.74	1982-2014
02426000	Bogue Chitto Creek near Browns, Ala.	Log 3rd order polynomial	02425000	161	0.81	0.402	0.81	1975-2014
02427000	Bogue Chitto Creek near Orrville, Ala.	Log 3rd order polynomial	02425000	68	0.88	0.279	0.88	1975-2014
02427250	Pine Barren Creek near Snow Hill, Ala.	Log MOVE.1	02373000	300	0.88	0.183	0.87	1975-89
02427700	Turkey Creek at Kimbrough, Ala.	Log MOVE.1	02427250	84	0.84	0.276	0.83	1996-2014
02428000	Alabama River near Coy, Ala. (represents streamflow for the 03150203 - Middle Alabama River Subbasin)	MOVE.1	02429500	54	0.99	1081.41	0.99	1975-2014
02428400	Alabama River at Claiborne Lock and Dam near Monroeville, Ala.	Gaged record	--	--	--	--	--	--
02428500	Big Flat Creek near Fountain, Ala.	Log 2nd order polynomial	02374500	324	0.84	0.273	0.84	1975-2014
02429000	Limestone Creek near Monroeville, Ala.	Log MOVE.1	02374500	225	0.92	0.113	0.91	1975-2014
02429595	Little River near Uriah, Ala.	Log MOVE.1	02374500	132	0.77	0.107	0.76	1979-2014

Table G-3. (continued) Monthly flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable)

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE	Estimated period
03150204	Mouth of Alabama River Subbasin	Drainage area ratio	02428400, 02469761, and 02470629	--	--	--	--	1975-2014
02438000	Buttahatchee River below Hamilton, Ala.	2nd order polynomial	02439400	341	0.96	93.25	0.97	1975-90
02439400	Buttahatchee River near Aberdeen, Miss. (represents streamflow for the 03160103 - Buttahatchee River Subbasin in Alabama)	Gaged record	--	--	--	--	--	--
02442500	Luxapallila Creek at Millport, Ala.	2nd order polynomial	02443500	190	0.95	82.02	0.95	1975-80, 1986-2001, 2011-14
02443000	Luxapallila Creek at Steens, Miss. (represents streamflow for the 03160105 - Luxapallila Creek Subbasin in Alabama)	2nd order polynomial	02443500	36	0.98	64.45	0.98	1977-2014
02443500	Luxapallila Creek near Columbus, Miss.	Gaged record	--	--	--	--	--	--
02444000	Coal Fire Creek near Pickensville, Ala.	Log MOVE.1	02443500	72	0.95	0.104	0.95	1980-2014
02444160	Tombigbee River at Bevill Lock and Dam near Pickensville, Ala.	Log MOVE.1	02441390	396	0.98	0.064	0.99	1975-80
02445000	Lubbub Creek near Carrollton, Ala.	Log 2nd order polynomial	02444000	120	0.97	0.114	0.97	1975-80
		Log MOVE.1	02446500	120	0.92	0.174	0.92	1980-2014
02445500	Sipsey River at Fayette, Ala.	2nd order polynomial	02446500	240	0.94	124.39	0.94	1975-2014
02446500	Sipsey River near Elrod, Ala.	Log 2nd order polynomial	02464000	648	0.93	0.132	0.93	1975-78
02447000	Sipsey River near Pleasant Ridge, Ala. (represents streamflow for the 03160107 - Sipsey River Subbasin)	Log 2nd order polynomial	02446500	240	0.99	0.066	0.99	1975-2014
02447025	Tombigbee River at Heflin Lock and Dam near Gainesville, Ala.	Sum of inflows	02449000 and 03160108	--	--	--	--	1975-78
02448500	Noxubee River near Geiger, Ala.	Gaged record	--	--	--	--	--	--
02448900	Bodka Creek near Geiger, Ala.	Log 3rd order polynomial	02448500	292	0.83	0.497	0.83	1975-90
03160108	Mouth of Noxubee River Subbasin	Drainage area ratio	02448500 and 02448900	--	--	--	--	1975-2014
02449245	Brush Creek near Eutaw, Ala.	MOVE.1	02465493	252	0.88	29.71	0.87	1997-2014
03160106	Mouth of Upper Tombigbee River Subbasin	Drainage area ratio	02447025, 02466030, and 02467000	--	--	--	--	1975-2014
02450000	Mulberry Fork near Garden City, Ala.	Gaged record	--	--	--	--	--	--
02450180	Mulberry Fork near Arkadelphia, Ala.	MOVE.1	02450000	420	0.98	132.51	0.98	1975-76, 1986-88
02450250	Sipsey Fork near Grayson, Ala.	Gaged record	--	--	--	--	--	--
02450825	Clear Creek at New Hope Church near Poplar Springs, Ala.	log 2nd order polynomial	02450250	269	0.92	0.113	0.92	1975-80, 1981-93
03160110	Mouth of Sipsey Fork Subbasin	Drainage area ratio	02450180, 02453000, and 02453500	--	--	--	--	1975-2014
02453000	Blackwater Creek near Manchester, Ala.	Log 3rd order polynomial	02450250	396	0.88	0.194	0.88	1975-79, 1982-88
02453500	Mulberry Fork at Cordova, Ala.	MOVE.1	02456500 and 02462500	46	0.98	480.47	0.98	1975-2009
02454055	Lost Creek above Parrish, Ala.	Log 2nd order polynomial	02464000	252	0.94	0.132	0.94	1975-92
03160109	Mouth of Mulberry Fork Subbasin	Drainage area ratio	02453500 and 02454055	--	--	--	--	1975-2014
02455000	Locust Fork near Cleveland, Ala.	Log 2nd order polynomial	02456500	792	0.96	0.132	0.96	1986-92
02455280	Little Warrior River near Locust Fork, Ala.	Log 3rd order polynomial	02456500	60	0.97	0.084	0.97	1975-92, 1997-2014

Table G-3. (continued) Monthly flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable)

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE	Estimated period
02455500	Locust Fork at Trafford, Ala.	2nd order polynomial	02456500	396	0.99	134.41	0.99	1975-92, 1997-2014
02456000	Turkey Creek at Morris, Ala.	Log 3rd order	02456500	105	0.91	0.123	0.91	1979-88
		Log 2nd order polynomial	02455980	105	0.93	0.107	0.93	1988-2002, 2007, 2011-2014
02456500	Locust Fork at Sayre, Ala.	Gaged record	--	--	--	--	--	--
02457670	Fivemile Creek near Graysville, Ala.	Log 3rd order polynomial	02456500	128	0.9	0.12	0.9	1975-88
		3rd order polynomial	02457595	128	0.97	35.37	0.97	1988-97
02460500	Village Creek near Adamsville, Ala.	MOVE.1	02462000	112	0.88	56.46	0.88	1981-2014
03160111	Mouth of Locust Fork Subbasin	Sum of inflows	02456500, 02457670, and 02460500	--	--	--	--	1975-2014
02462000	Valley Creek near Oak Grove, Ala.	Log 2nd order polynomial	02461500	320	0.88	0.096	0.88	1975-78
02462500	Black Warrior River at Bankhead Lock and Dam near Bessemer, Ala.	Log 2nd order polynomial	02465000	456	0.95	0.113	0.95	1975-76
02462951	Black Warrior River at Holt Lock and Dam near Holt, Ala.	Log 2nd order polynomial	02465000	456	0.96	0.1	0.96	1975-76
02463500	Hurricane Creek near Holt, Ala.	Log 3rd order polynomial	02424000	206	0.91	0.168	0.91	1975-2014
02464000	North River near Samantha, Ala.	Gaged record	--	--	--	--	--	--
02465000	Black Warrior River at Oliver Lock and Dam at Northport, Ala. (represents streamflow for the 03160112 - Upper Black Warrior River Subbasin)	Gaged record	--	--	--	--	--	--
02465400	Big Sandy Creek at Duncanville, Ala.	Log 2nd order polynomial	02424000	50	0.91	0.079	0.91	1975-2014
02465493	Elliotts Creek at Moundville, Ala.	Gaged record	--	--	--	--	--	--
02466030	Black Warrior River at Selden Lock and Dam near Eutaw, Ala.	Log 2nd order polynomial	02465000	459	0.97	0.068	0.97	1975-76
03160113	Mouth of Lower Black Warrior River Subbasin	Drainage area ratio	02447025, 02466030, and 02467000	--	--	--	--	1975-2014
02467000	Tombigbee River at Demopolis Lock and Dam near Coatopa, Ala.	Gaged record	--	--	--	--	--	--
02467500	Sucarnoochee River at Livingston, Ala.	Gaged record	--	--	--	--	--	--
02468000	Alamuchee Creek near Cuba, Ala.	Log MOVE.1	02467500	158	0.89	0.183	0.89	1975-2014
03160202	Mouth of Sucarnoochee River Subbasin	Drainage area ratio	02467500 and 02468000	--	--	--	--	1975-2014
02469000	Kinterbish Creek near York, Ala.	Log 3rd order polynomial	02467500	158	0.85	0.19	0.85	1975-2014
02469500	Tuckabum Creek near Butler, Ala.	Log 3rd order polynomial	02467500	192	0.77	0.292	0.77	1975-2014
02469550	Horse Creek near Sweetwater, Ala.	Log MOVE.1	02469800	132	0.86	0.24	0.86	1975-2014
02469600	Bashi Creek near Campbell, Ala.	Log 2nd order polynomial	02469800	60	0.94	0.197	0.94	1975-2014
02469700	Okatuppa Creek at Gilbertown, Ala.	Log MOVE.1	02469800	156	0.82	0.247	0.81	1975-2014
02469761	Tombigbee River at Coffeeville Lock and Dam near Coffeeville, Ala. (represents streamflow for the 03160201 - Middle Tombigbee-Chickasaw River Subbasin)	Gaged record	--	--	--	--	--	--
02469800	Satilpa Creek near Coffeeville, Ala.	Gaged record	--	--	--	--	--	--
02470100	Bassett Creek at Walker Springs, Ala.	Log MOVE.1	02469800	168	0.9	0.131	0.9	1975-2014
03160203	Mouth of Lower Tombigbee River Subbasin	Drainage area ratio	02428400, 02469761, and 02470629	--	--	--	--	1975-2014
02470629	Mobile River at River Mile 31 at Bucks, Ala. (Streamflow for 02470629 combined with streamflow for 02471019, Tensaw River near Mt. Vernon, to represent streamflow for the 03160204 - Mobile-Tensaw River Subbasin)	Log 2nd order polynomial	02428400 and 02469761	87	0.97	0.064	0.97	1975-2005, 2011-2013

Table G-3. (continued) Monthly flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE	Estimated period
02471001	Chickasaw Creek near Kushla, Ala.	Gaged record	--	--	--	--	--	--
02479431	Pond Creek near Deer Park, Ala.	Log 3rd order polynomial	02479560	276	0.83	0.251	0.83	1975-76, 1999-2014
02479560	Escatawpa River near Agricola, Miss.	Gaged record	--	--	--	--	--	--
03170008	Escatawpa River Subbasin in Alabama	Drainage area ratio	02479560	--	--	--	--	1975-2014
03571850	Tennessee River at South Pittsburg, Tenn.	3rd order polynomial	Nickajack Dam outlfows	333	0.98	2837.67	0.98	1987-2014
03572110	Crow Creek at Bass, Ala.	Log MOVE.1	03574500	256	0.91	0.195	0.91	1975, 1996-2014
03572900	Town Creek near Geraldine, Ala.	Log 3rd order polynomial	03574500	276	0.8	0.376	0.8	1980-2014
03573000	Short Creek near Albertville, Ala.	MOVE.1	02455000	100	0.97	40.68	0.97	1975-86, 1992-2014
		2nd order polynomial	2455000	96	0.9	29.75	0.9	1986-92
03573182	Scarham Creek near McVille, Ala.	2nd order polynomial	02455000	96	0.9	29.75	0.9	1975-86, 1992-98, 2006-14
		Log 3rd order polynomial	03574500	96	0.84	0.465	0.84	1986-92
03574000	Guntersville Lake near Guntersville, Ala. (represents streamflow for the 06030001 - Guntersville Lake Subbasin)	Gaged record	Guntersville Dam outflows	--	--	--	--	--
03574500	Paint Rock River near Woodville, Ala.	Gaged record	--	--	--	--	--	--
03575000	Flint River near Chase, Ala.	Log 3rd order polynomial	03574500	696	0.91	0.124	0.91	1981-82, 1995-2014
03575100	Flint River near Brownsboro, Ala.	log 2nd order polynomial	03574500	195	0.92	0.117	0.92	1975-98
03576148	Cotaco Creek at Florette, Ala.	2nd order polynomial	02450000	177	0.92	85.18	0.92	1980-2014
03576250	Limestone Creek near Athens, Ala.	Log 3rd order polynomial	03574500	96	0.9	29.75	0.9	1975-86, 1992-98, 2006-14
03576400	Piney Creek near Athens, Ala.	2nd order polynomial	03574500	108	0.9	33.65	0.9	1975-94
		2nd order polynomial	03576250	108	0.94	26.55	0.94	1994-2014
03576500	Flint Creek near Falkville, Ala.	Log 3rd order polynomial	02450000	340	0.84	0.357	0.84	1975-92, 1999-2011
03577000	West Flint Creek near Oakville, Ala.	2nd order polynomial	02450000	155	0.89	60.19	0.89	1975-92, 1999-2014
03584600	Elk River at Prospect, Tenn.(represents streamflow for the 06030004 - Lower Elk River Subbasin)	Log MOVE.1	03582000	191	0.9	0.134	0.9	1994-2003
03586000	Wheeler Lake near Decautur, Ala. (represents streamflow for the 06030002 - Wheeler Lake Subbasin)	Gaged record	Wheeler Dam outflows	--	--	--	--	--
03586500	Big Nance Creek at Courtland, Ala.	Log 3rd order polynomial	02450250	502	0.89	0.239	0.89	1981-88
03588500	Shoal Creek at Iron City, Tenn.	Log 3rd order polynomial	03586500	331	0.8	0.159	0.8	1994-2000
03589000	Wilson Lake near Florence, Ala.	Gaged record	Wheeler Dam outflows	--	--	--	--	--
03590000	Cypress Creek near Florence, Ala.	log 2nd order polynomial	03586500	163	0.81	0.173	0.81	1994-2000
		log 2nd order polynomial	03588500	232	0.94	0.094	0.94	1975-94, 2000-14
03592500	Bear Creek at Bishop, Ala. (represents streamflow for 06030006 - Bear Creek Subbasin)	MOVE.1	Sum of outflows from Bear Creek, Cedar and Little Bear Creek	103	0.99	148.84	0.99	1979-2014
06030005	Pickwick Lake Subbasin in Alabama	Drainage area ratio	03586000 and 03592500	--	--	--	--	1975-2014

Table G-4. Annual flow assessment site statistics.
(N, number of monthly values for analysis; R^2, coefficient of determination; RMSE, root mean square error; NSE, Nash-Sutcliffe efficiency coefficient; --, not applicable)

Station number	Station name	Flow estimation method	Index site(s)	N	R^2	RMSE	NSE
02343000	Barbour Creek near Eufaula, Ala.	Log MOVE.1	02361000	60	0.92	0.137	0.92
02360290	West Fork Choctawhatchee River near Ozark, Ala.	Drainage area ratio	02361000	--	--	--	--
02377960	Blackwater River near Robertsdale, Ala.	Log MOVE.1	02377570	48	0.87	0.117	0.86
02378500	Fish River near Silver Hill, Ala.	Log MOVE.1	02377570	312	0.85	0.085	0.85
02401700	Ohatchee Creek at Reads, Ala.	Log 2nd order polynomial	02404000	48	0.84	0.147	0.84
02401800	Tallasseehatchee Creek near Wellington, Ala.	Log 2nd order polynomial	02404000	48	0.91	0.084	0.91
02404000	Choccolocco Creek near Jenifer, Ala.	MOVE.1	02404400	84	0.99	48.1	0.99
02404500	Choccolocco Creek near Lincoln, Ala.	MOVE.1	02404000	180	0.99	73.72	0.99
02439000	Buttahatchee River near Sulligent, Ala.	2nd order polynomial	02438000	105	0.97	132.17	0.97
02442000	Luxapallila Creek near Fayette, Ala.	Log MOVE.1	02442500	62	0.98	0.047	0.98
02454200	Wolf Creek near Oakman, Ala.	Log MOVE.1	02454200	84	0.95	0.235	0.95
02462800	Davis Creek below Abernant, Ala.	Log 2nd order polynomial	02462000	36	0.82	0.239	0.82
02465500	Fivemile Creek near Greensboro, Ala.	Log MOVE.1	02424500	180	0.87	0.197	0.87
02466500	Big Prairie Creek near Gallion, Ala.	Log 2nd order polynomial	02468500	33	0.87	0.26	0.87
02468500	Chickasaw Bogue near Linden, Ala.	Log 2nd order polynomial	02427700	276	0.83	0.369	0.83

Appendix H

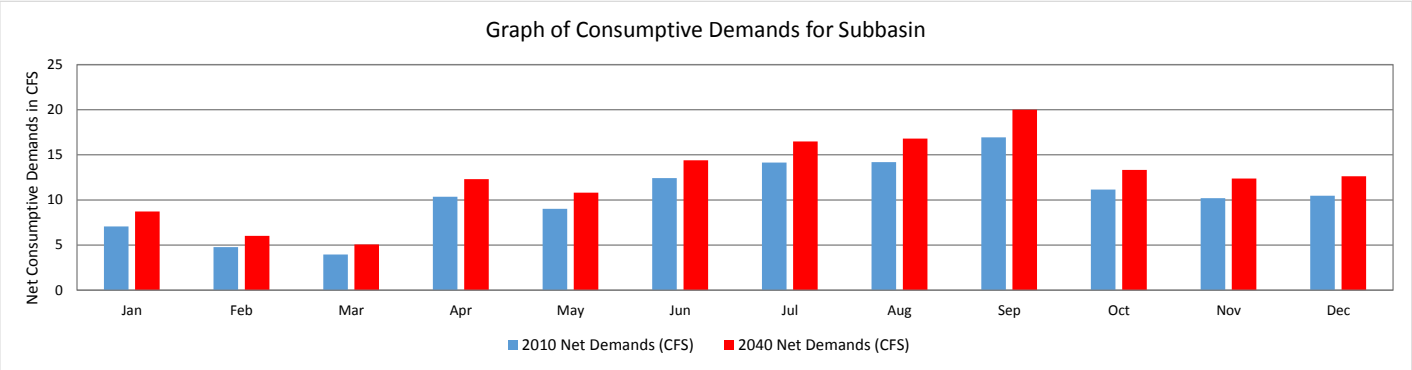
Subbasin Flow and Demand Summaries

This appendix includes a 2-page summary of the monthly consumptive demands, streamflow statistics, and relative net demand ratios for each of the 45 subbasins as described in the text of the report. All consumptive demand and streamflow numbers are in units of cubic feet per second (CFS).

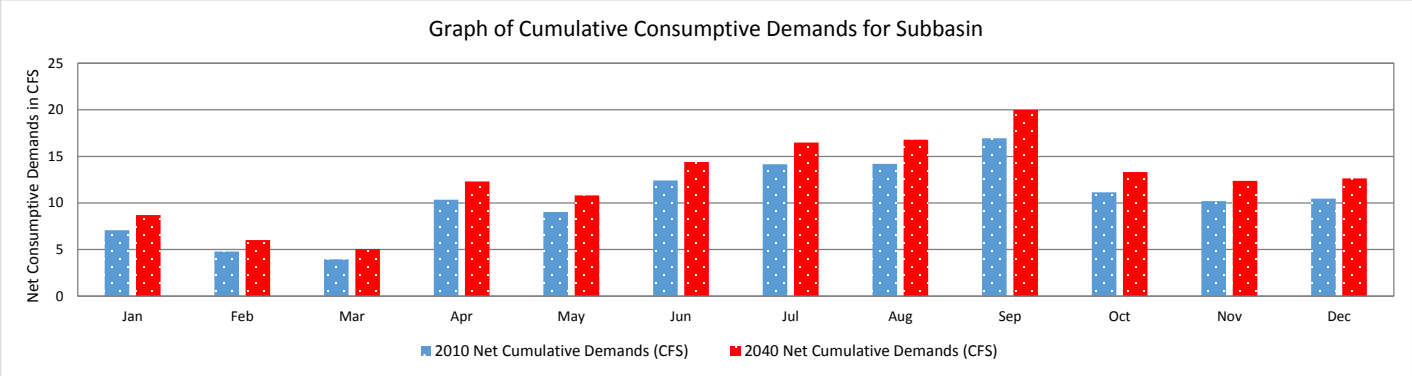
Subbasin Flows and Consumptive Demands

Subbasin #: 03130002 Name: Middle Chattahoochee - Lake Harding Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,550 square miles

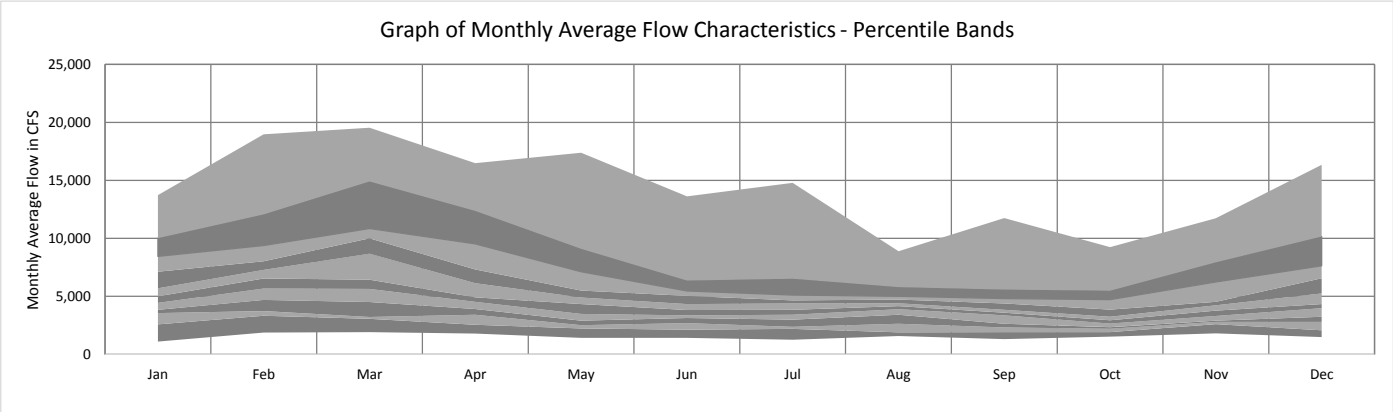
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	7.07	4.78	3.95	10.35	9.03	12.43	14.15	14.19	16.95	11.14	10.19	10.46	10.39
2040 Net Demands (CFS)	8.71	6.02	5.06	12.31	10.82	14.39	16.49	16.80	19.99	13.32	12.38	12.63	12.41



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	7.07	4.78	3.95	10.35	9.03	12.43	14.15	14.19	16.95	11.14	10.19	10.46	10.39
2040 Net Cumulative Demands (CFS)	8.71	6.02	5.06	12.31	10.82	14.39	16.49	16.80	19.99	13.32	12.38	12.63	12.41



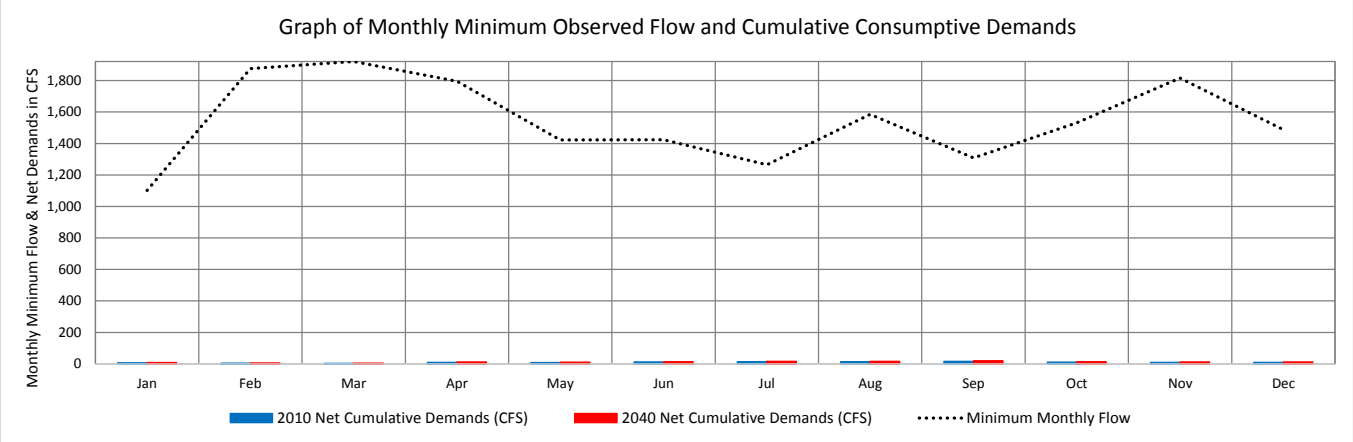
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571	5,182
Median (CFS)	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341	5,529
10th Percentile (CFS)	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072	2,771
Minimum (CFS)	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488	2,280

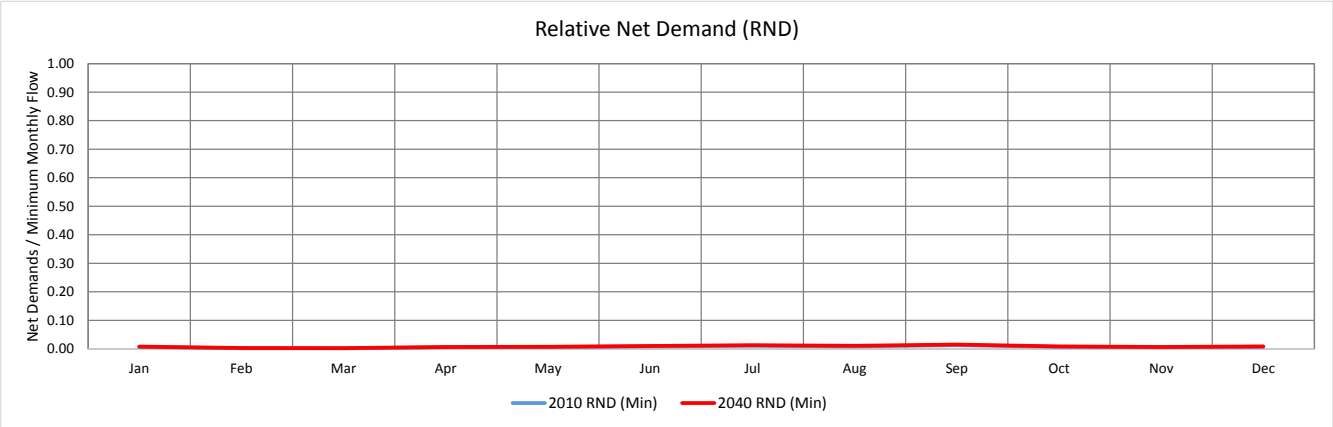
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03130002 Name: Middle Chattahoochee - Lake Harding Subbasin

Drainage Area: 3,550 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	7.07	4.78	3.95	10.35	9.03	12.43	14.15	14.19	16.95	11.14	10.19	10.46	10.39
2040 Net Cumulative Demands (CFS)	8.71	6.02	5.06	12.31	10.82	14.39	16.49	16.80	19.99	13.32	12.38	12.63	12.41

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571	5,182
Median (CFS)	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341	5,529
10th Percentile (CFS)	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072	2,771
Minimum (CFS)	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488	2,280

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
2040 RND (Min)	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

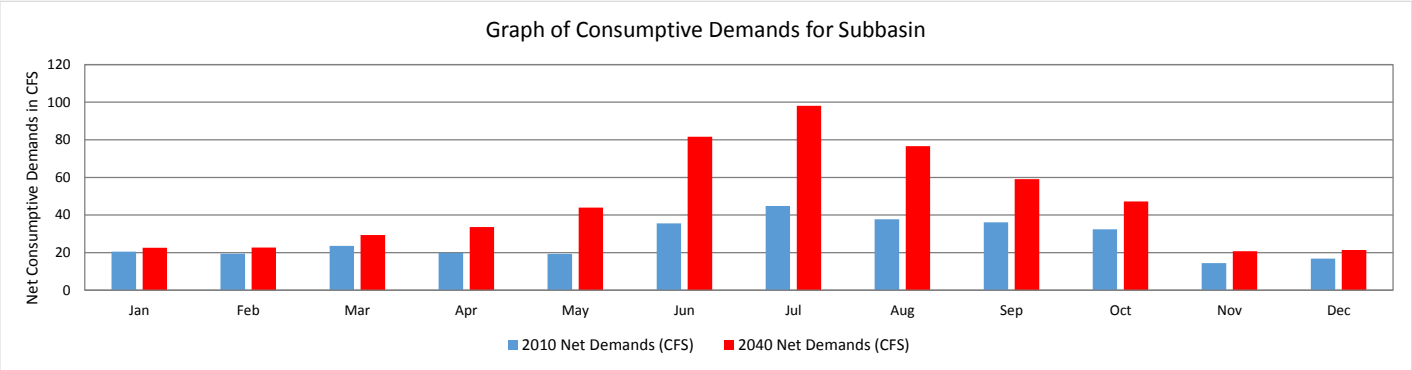
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

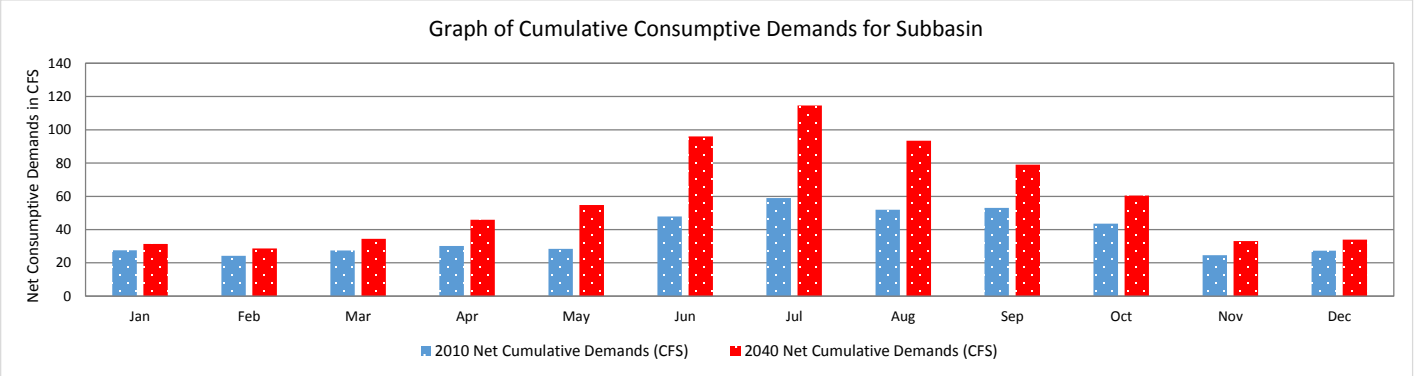
Subbasin Flows and Consumptive Demands

Subbasin #: 03130003 Name: Middle Chattahoochee-Walter F. George Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 7,460 square miles

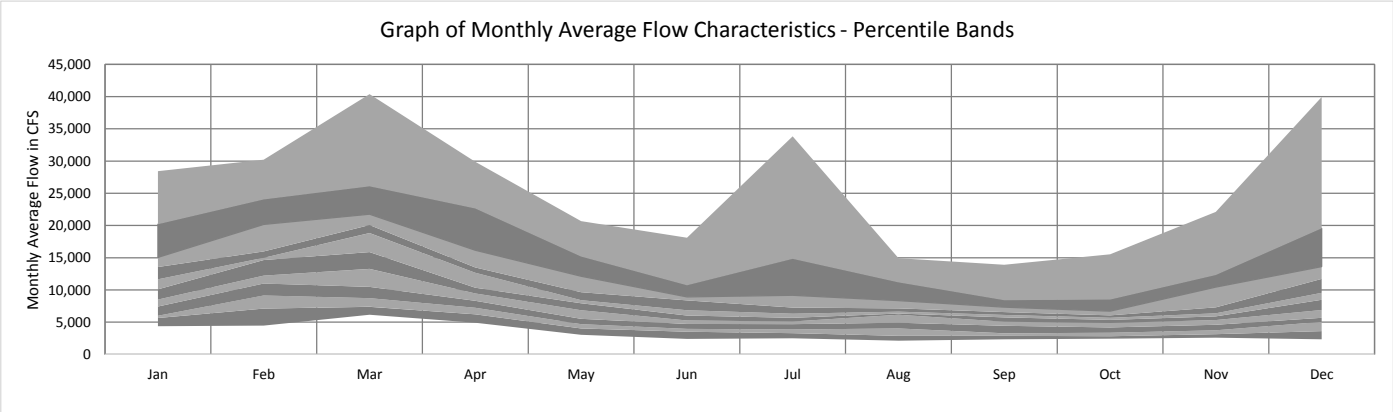
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	20.48	19.45	23.51	19.84	19.37	35.50	44.85	37.77	36.11	32.40	14.43	16.80	26.71
2040 Net Demands (CFS)	22.61	22.70	29.36	33.61	43.95	81.65	98.11	76.59	59.04	47.17	20.69	21.34	46.40



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	27.55	24.23	27.47	30.19	28.40	47.93	58.99	51.96	53.06	43.54	24.62	27.27	37.10
2040 Net Cumulative Demands (CFS)	31.33	28.71	34.42	45.92	54.77	96.04	114.59	93.38	79.04	60.50	33.07	33.97	58.81



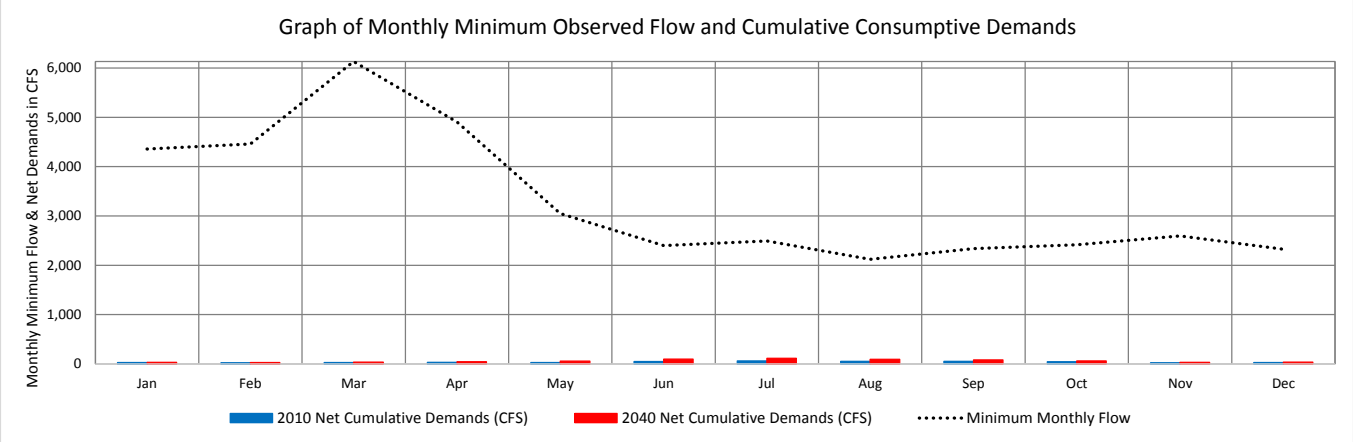
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238	9,426
Median (CFS)	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479	10,295
10th Percentile (CFS)	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615	5,537
Minimum (CFS)	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326	4,622

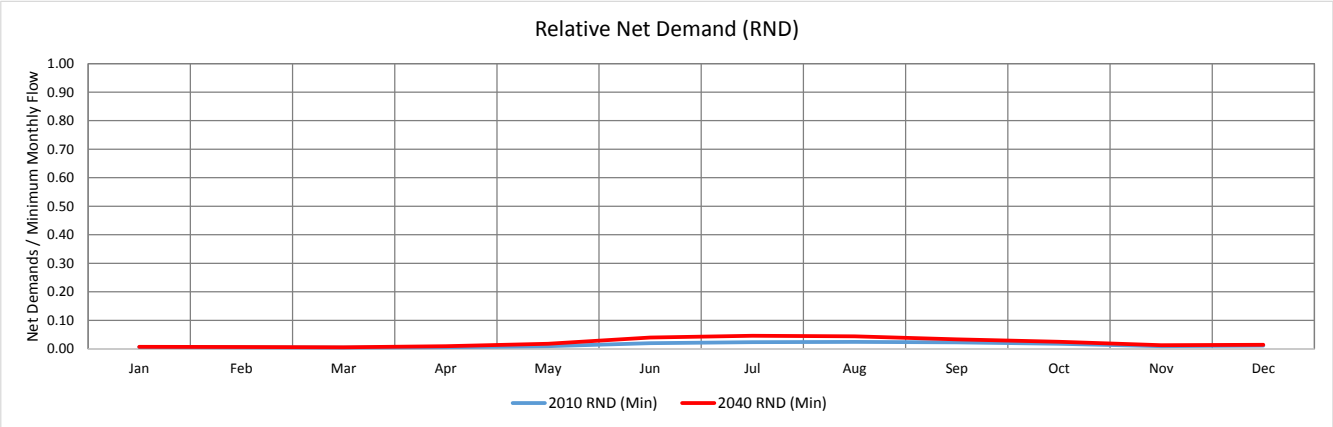
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03130003 Name: Middle Chattahoochee-Walter F. George Subbasin

Drainage Area: 7,460 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	27.55	24.23	27.47	30.19	28.40	47.93	58.99	51.96	53.06	43.54	24.62	27.27	37.10
2040 Net Cumulative Demands (CFS)	31.33	28.71	34.42	45.92	54.77	96.04	114.59	93.38	79.04	60.50	33.07	33.97	58.81

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238	9,426
Median (CFS)	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479	10,295
10th Percentile (CFS)	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615	5,537
Minimum (CFS)	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326	4,622

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.01	0.01	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
2040 RND (Min)	0.01	0.01	0.01	0.01	0.02	0.04	0.05	0.04	0.03	0.03	0.01	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

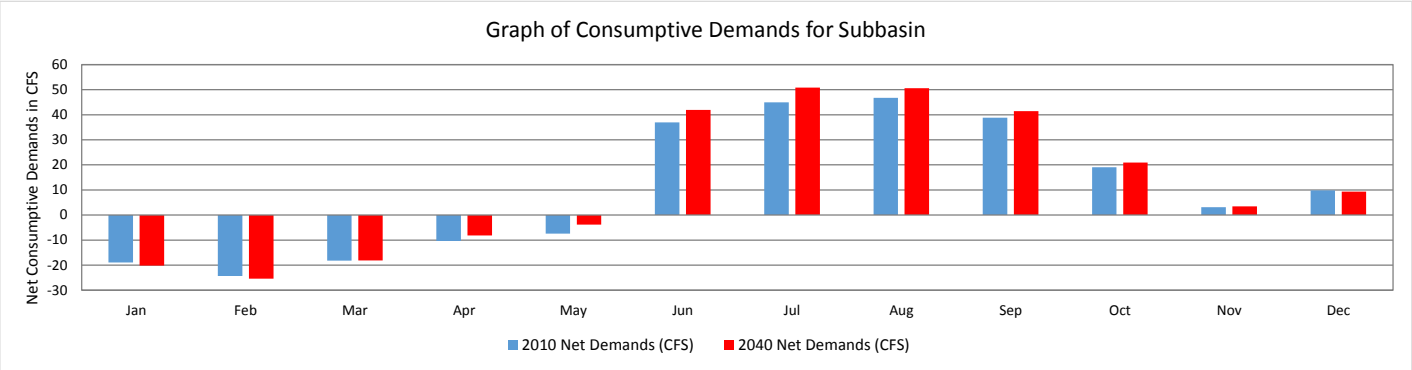
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00	0.01

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

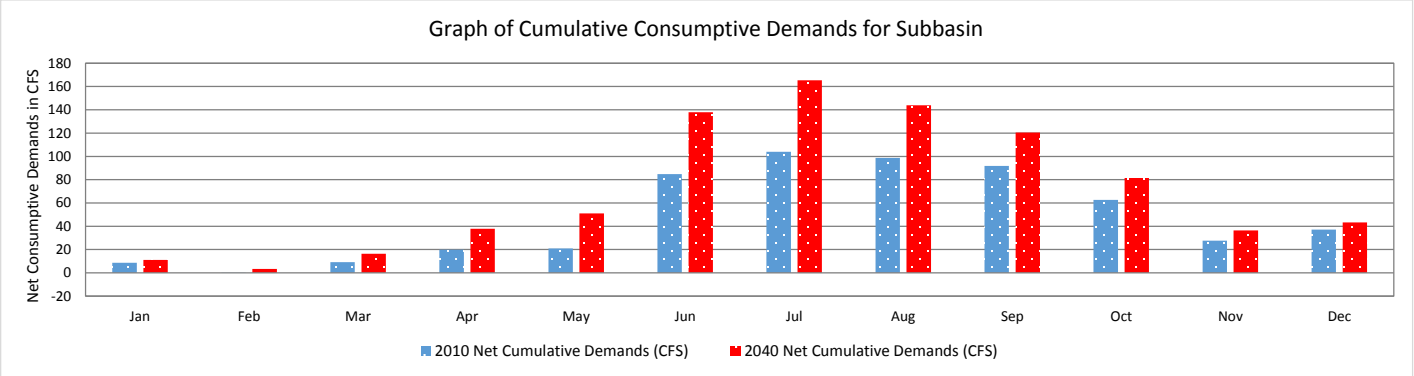
Subbasin Flows and Consumptive Demands

Subbasin #: 03130004 Name: Lower Chattahoochee Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,510 square miles

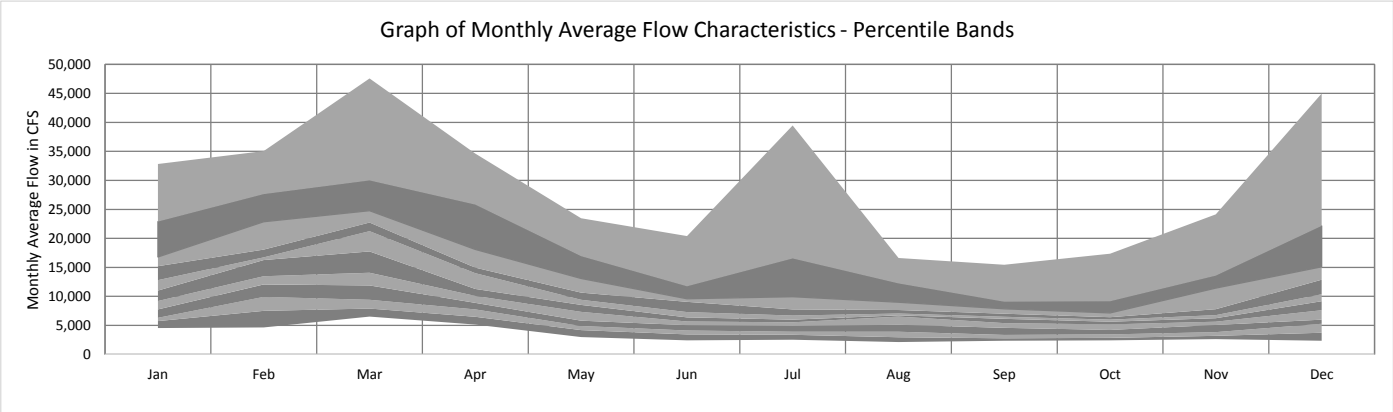
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-18.93	-24.30	-18.24	-10.35	-7.46	36.91	44.98	46.77	38.82	19.03	3.08	9.80	10.01
2040 Net Demands (CFS)	-20.19	-25.40	-18.11	-8.17	-3.80	41.93	50.80	50.57	41.46	20.96	3.41	9.29	11.90



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	8.62	-0.07	9.22	19.85	20.93	84.83	103.97	98.73	91.88	62.58	27.69	37.07	47.11
2040 Net Cumulative Demands (CFS)	11.14	3.31	16.31	37.76	50.97	137.97	165.39	143.95	120.50	81.45	36.48	43.26	70.71



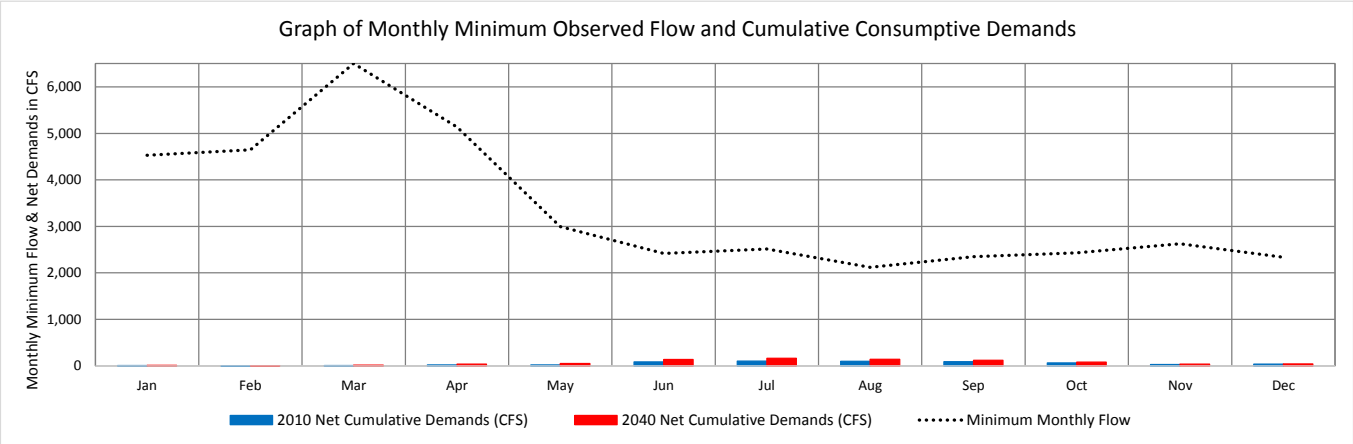
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276	10,345
Median (CFS)	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155	11,326
10th Percentile (CFS)	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722	5,866
Minimum (CFS)	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336	4,535

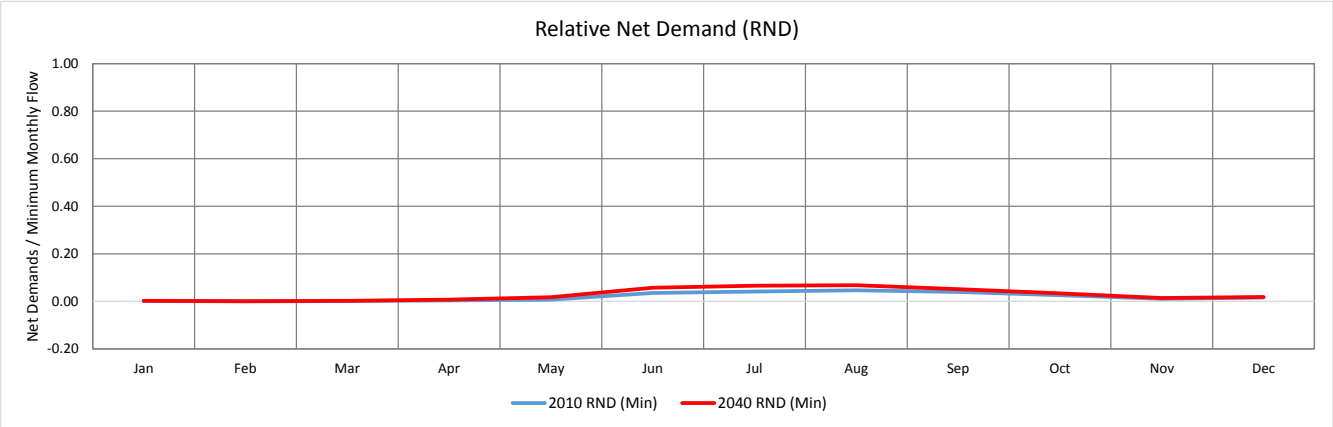
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03130004 Name: Lower Chattahoochee Subbasin

Drainage Area: 8,510 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	8.62	-0.07	9.22	19.85	20.93	84.83	103.97	98.73	91.88	62.58	27.69	37.07	47.11
2040 Net Cumulative Demands (CFS)	11.14	3.31	16.31	37.76	50.97	137.97	165.39	143.95	120.50	81.45	36.48	43.26	70.71

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276	10,345
Median (CFS)	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155	11,326
10th Percentile (CFS)	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722	5,866
Minimum (CFS)	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336	4,535

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.04	0.04	0.05	0.04	0.03	0.01	0.02	0.01
2040 RND (Min)	0.00	0.00	0.00	0.01	0.02	0.06	0.07	0.07	0.05	0.03	0.01	0.02	0.02

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

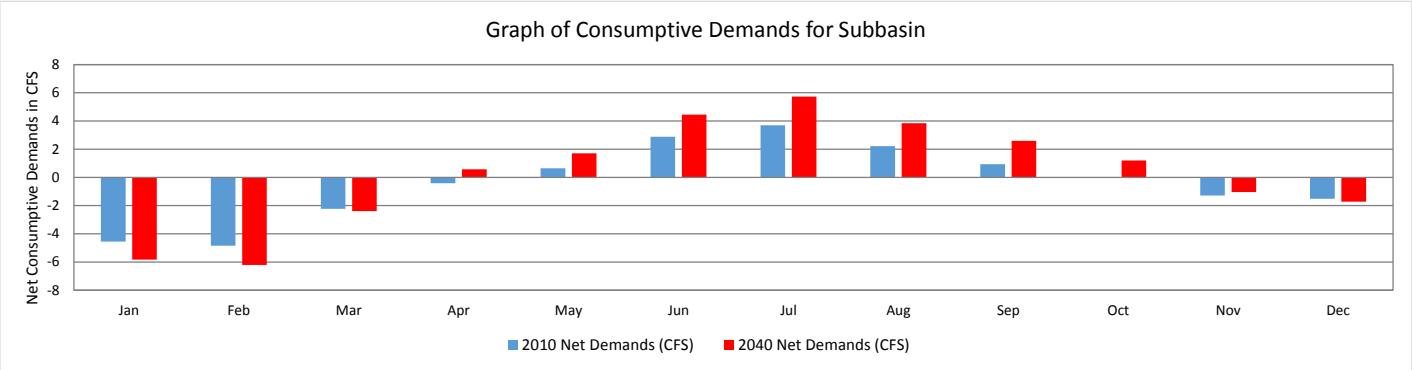
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.01

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

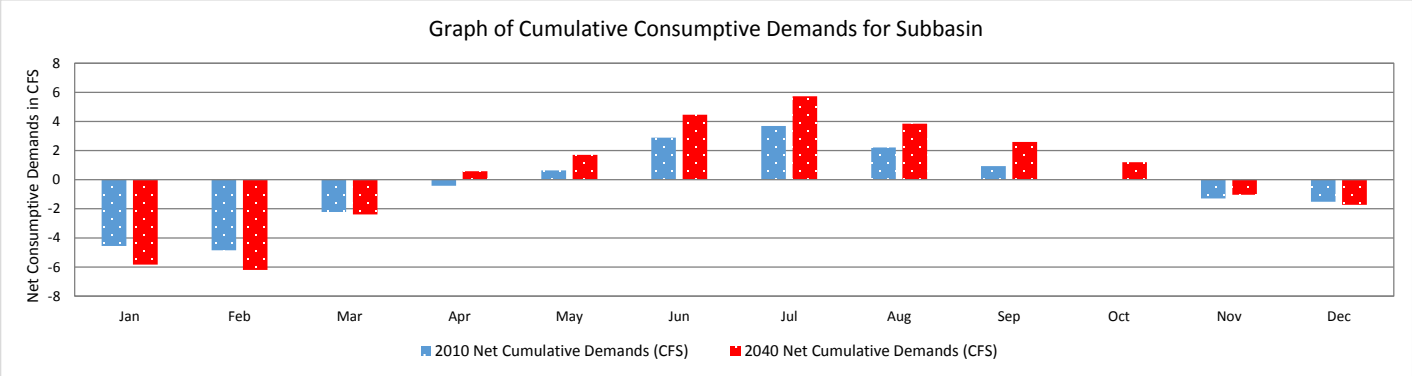
Subbasin Flows and Consumptive Demands

Subbasin #: 03130012 Name: Chipola River Basin Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 201 square miles

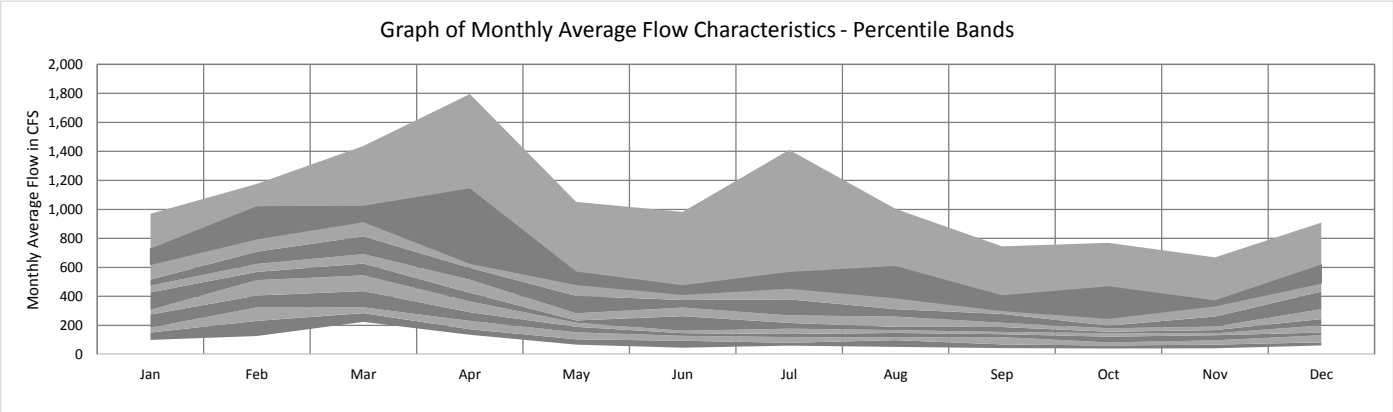
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-4.56	-4.85	-2.22	-0.42	0.64	2.89	3.69	2.21	0.93	0.02	-1.29	-1.51	-0.37
2040 Net Demands (CFS)	-5.84	-6.21	-2.38	0.58	1.70	4.46	5.73	3.84	2.59	1.21	-1.04	-1.72	0.24



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-4.56	-4.85	-2.22	-0.42	0.64	2.89	3.69	2.21	0.93	0.02	-1.29	-1.51	-0.37
2040 Net Cumulative Demands (CFS)	-5.84	-6.21	-2.38	0.58	1.70	4.46	5.73	3.84	2.59	1.21	-1.04	-1.72	0.24



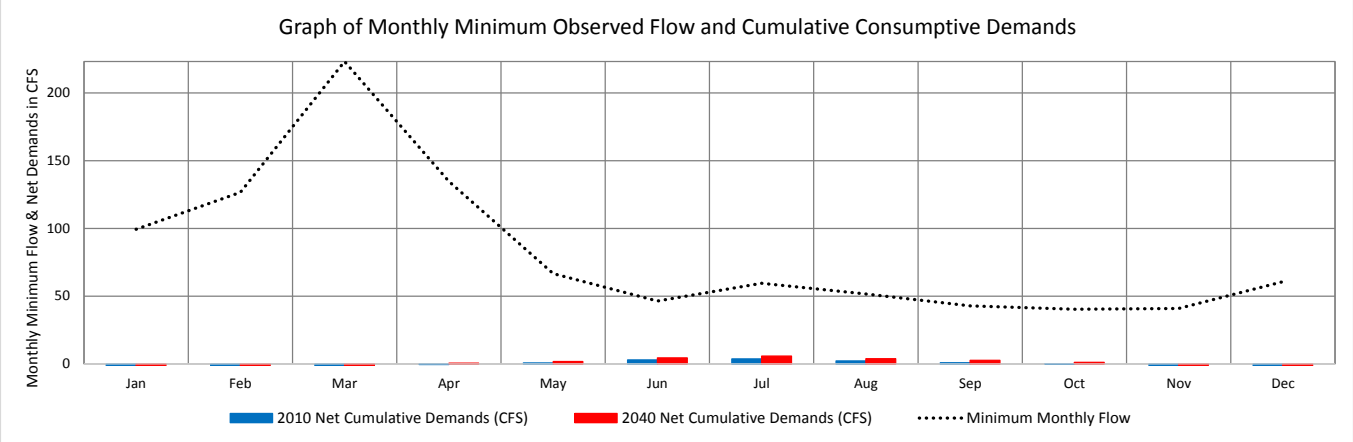
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	435	587	651	521	314	280	314	277	224	206	208	315	360
Median (CFS)	428	569	626	424	234	264	216	190	189	157	168	243	357
10th Percentile (CFS)	151	231	284	172	104	94	80	97	69	61	67	83	195
Minimum (CFS)	99	127	223	135	67	46	59	52	43	40	41	61	93

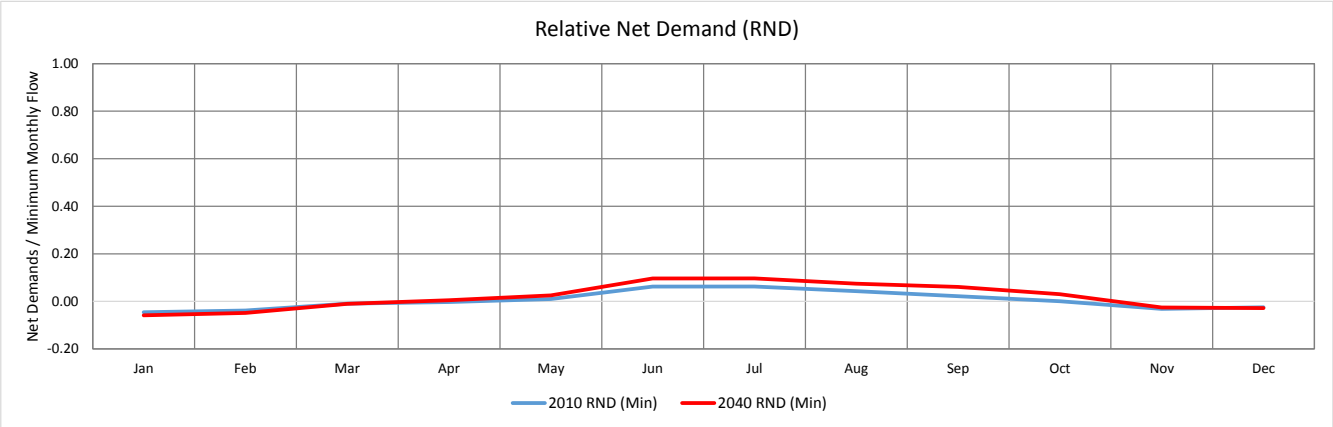
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03130012 Name: Chipola River Basin Subbasin in Alabama

Drainage Area: 201 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-4.56	-4.85	-2.22	-0.42	0.64	2.89	3.69	2.21	0.93	0.02	-1.29	-1.51	-0.37
2040 Net Cumulative Demands (CFS)	-5.84	-6.21	-2.38	0.58	1.70	4.46	5.73	3.84	2.59	1.21	-1.04	-1.72	0.24

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	435	587	651	521	314	280	314	277	224	206	208	315	360
Median (CFS)	428	569	626	424	234	264	216	190	189	157	168	243	357
10th Percentile (CFS)	151	231	284	172	104	94	80	97	69	61	67	83	195
Minimum (CFS)	99	127	223	135	67	46	59	52	43	40	41	61	93

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.05	-0.04	-0.01	0.00	0.01	0.06	0.06	0.04	0.02	0.00	-0.03	-0.02	0.00
2040 RND (Min)	-0.06	-0.05	-0.01	0.00	0.03	0.10	0.10	0.07	0.06	0.03	-0.03	-0.03	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

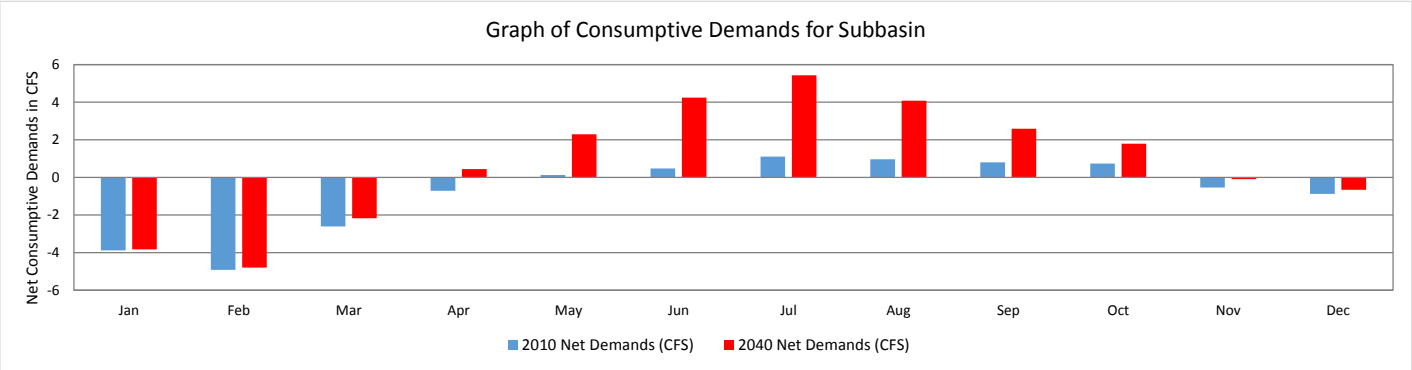
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	-0.01	0.00	0.00
2040 RND (Avg)	-0.01	-0.01	0.00	0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.00	-0.01	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

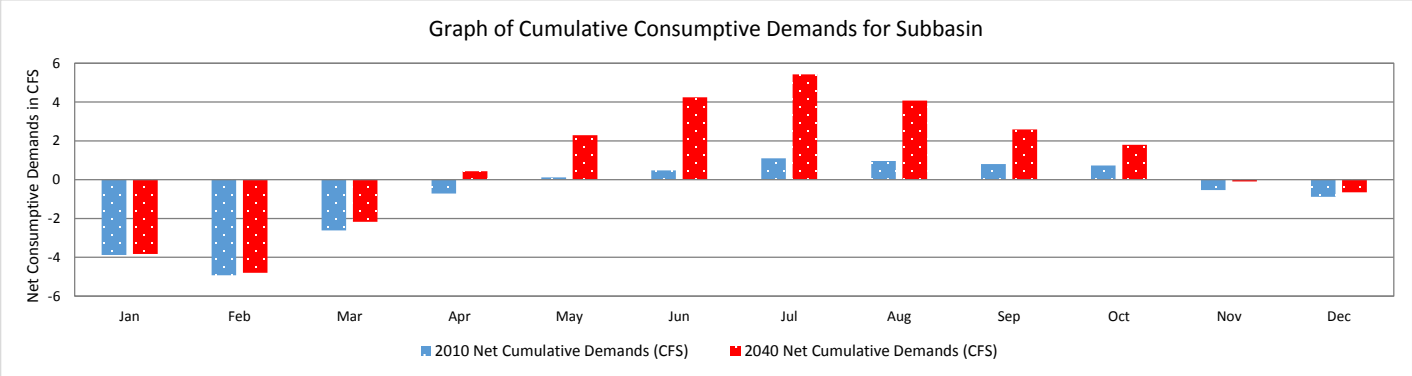
Subbasin Flows and Consumptive Demands

Subbasin #: 03140103 Name: Yellow River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 461 square miles

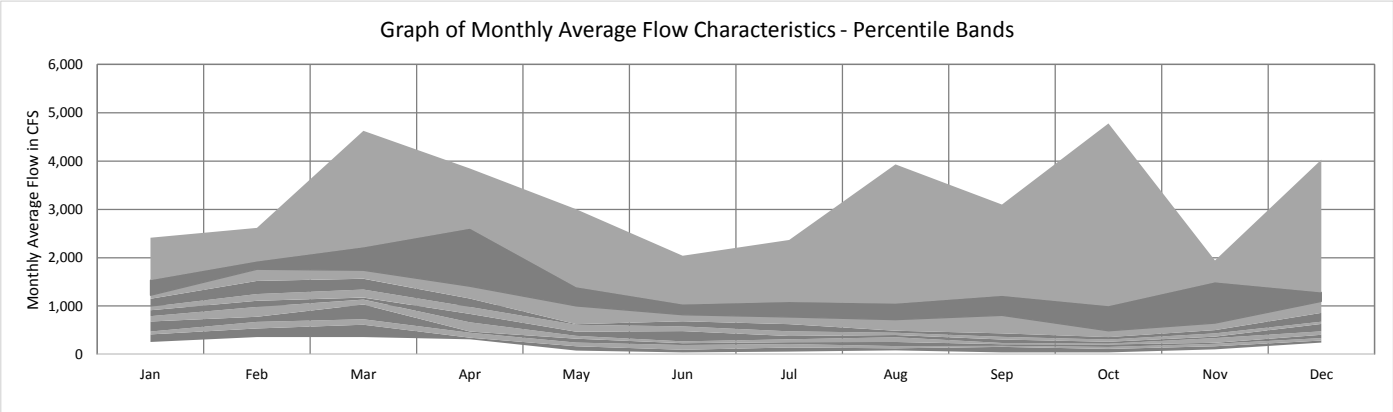
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-3.88	-4.92	-2.61	-0.72	0.12	0.48	1.10	0.96	0.80	0.74	-0.54	-0.88	-0.78
2040 Net Demands (CFS)	-3.83	-4.80	-2.17	0.44	2.30	4.25	5.43	4.08	2.58	1.79	-0.09	-0.65	0.78



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-3.88	-4.92	-2.61	-0.72	0.12	0.48	1.10	0.96	0.80	0.74	-0.54	-0.88	-0.78
2040 Net Cumulative Demands (CFS)	-3.83	-4.80	-2.17	0.44	2.30	4.25	5.43	4.08	2.58	1.79	-0.09	-0.65	0.78



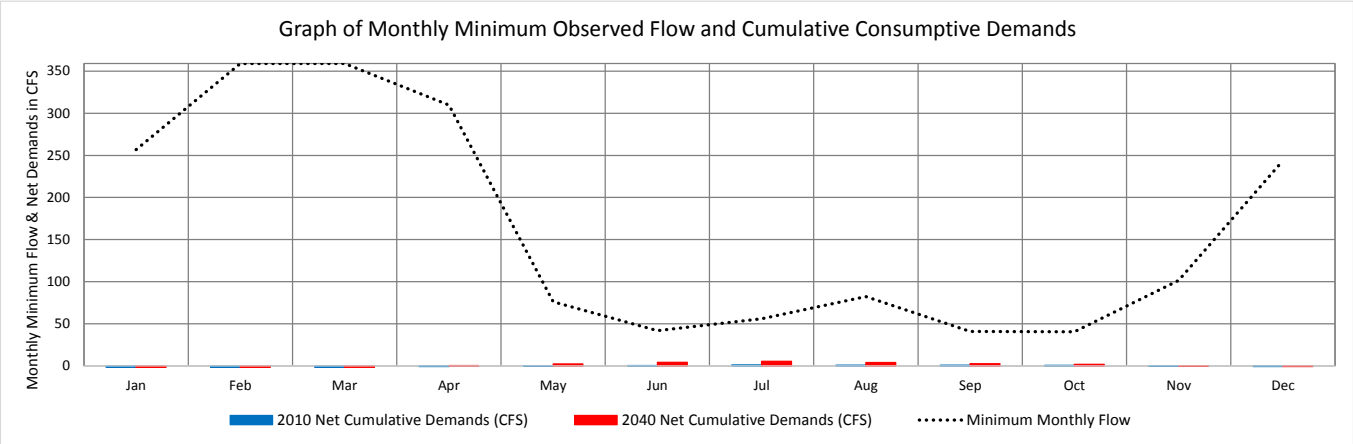
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761	773
Median (CFS)	913	1,109	1,174	839	469	480	378	401	306	259	364	629	696
10th Percentile (CFS)	412	536	613	346	165	94	140	123	154	113	167	286	396
Minimum (CFS)	257	359	359	310	76	42	56	82	41	40	102	244	209

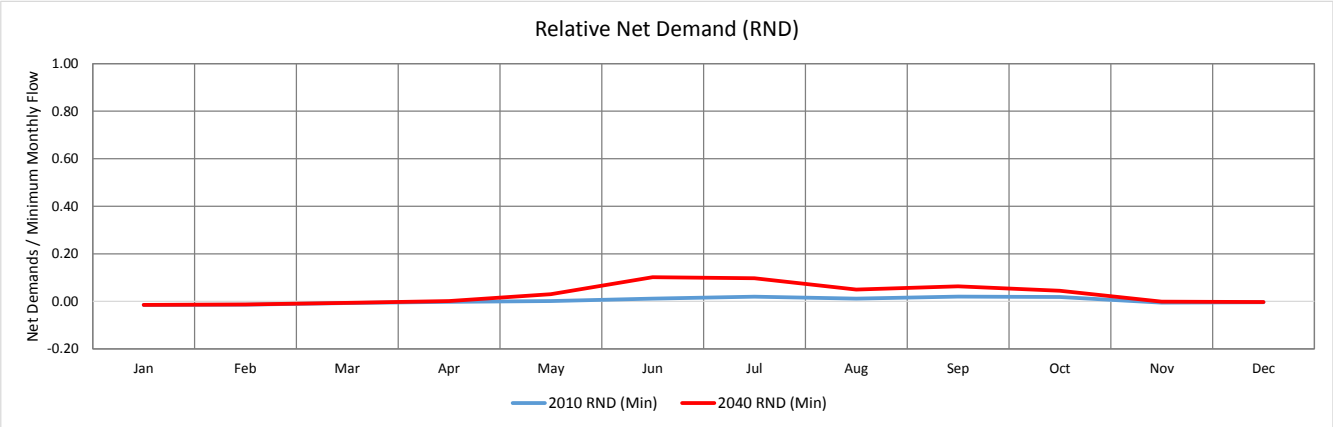
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140103 Name: Yellow River Subbasin in Alabama

Drainage Area: 461 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-3.88	-4.92	-2.61	-0.72	0.12	0.48	1.10	0.96	0.80	0.74	-0.54	-0.88	-0.78
2040 Net Cumulative Demands (CFS)	-3.83	-4.80	-2.17	0.44	2.30	4.25	5.43	4.08	2.58	1.79	-0.09	-0.65	0.78

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761	773
Median (CFS)	913	1,109	1,174	839	469	480	378	401	306	259	364	629	696
10th Percentile (CFS)	412	536	613	346	165	94	140	123	154	113	167	286	396
Minimum (CFS)	257	359	359	310	76	42	56	82	41	40	102	244	209

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.01	-0.01	0.00	0.00	0.01	0.02	0.01	0.02	0.02	-0.01	0.00	0.00
2040 RND (Min)	-0.01	-0.01	-0.01	0.00	0.03	0.10	0.10	0.05	0.06	0.04	0.00	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

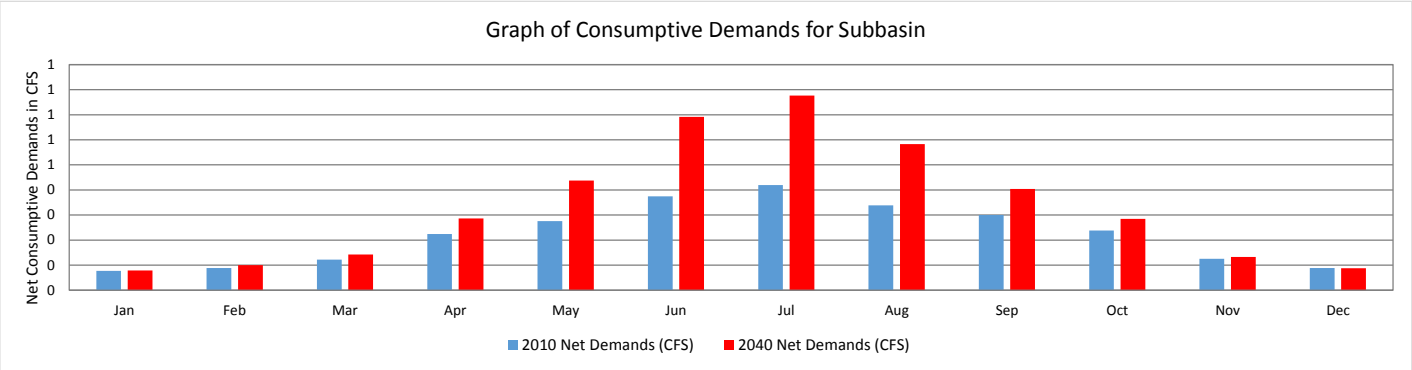
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

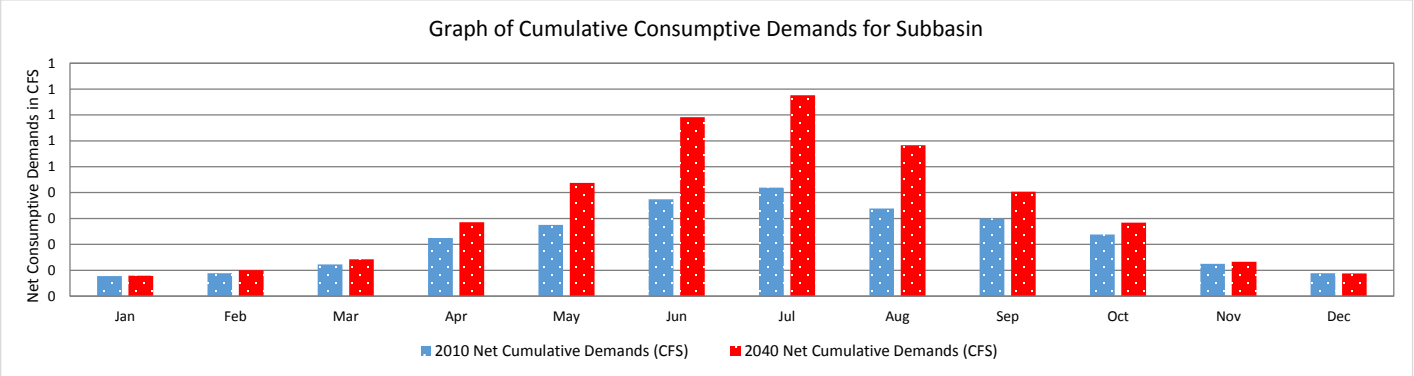
Subbasin Flows and Consumptive Demands

Subbasin #: 03140104 Name: Blackwater River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 88 square miles

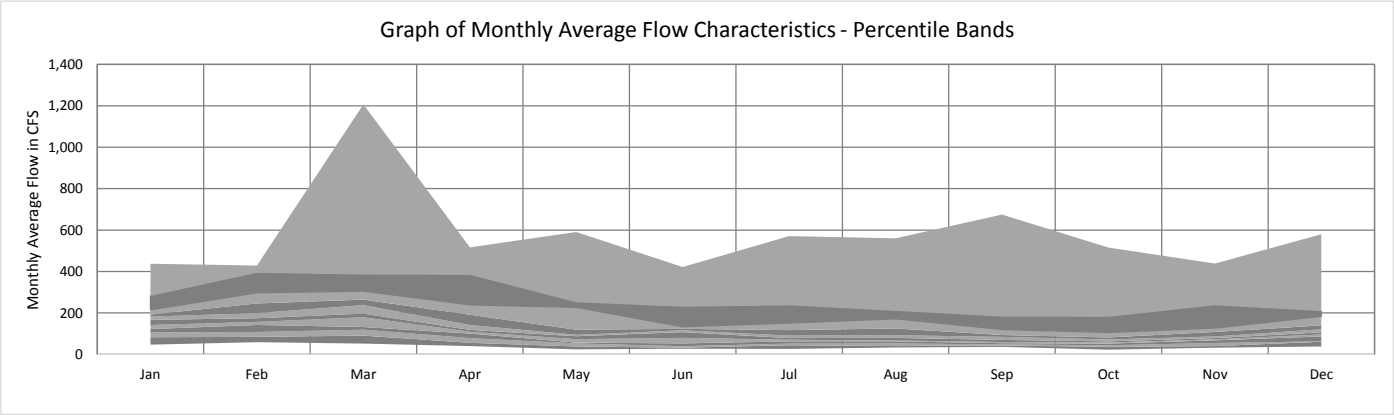
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	0.08	0.09	0.12	0.22	0.28	0.37	0.42	0.34	0.30	0.24	0.13	0.09	0.22
2040 Net Demands (CFS)	0.08	0.10	0.14	0.29	0.44	0.69	0.78	0.58	0.40	0.28	0.13	0.09	0.33



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.08	0.09	0.12	0.22	0.28	0.37	0.42	0.34	0.30	0.24	0.13	0.09	0.22
2040 Net Cumulative Demands (CFS)	0.08	0.10	0.14	0.29	0.44	0.69	0.78	0.58	0.40	0.28	0.13	0.09	0.33



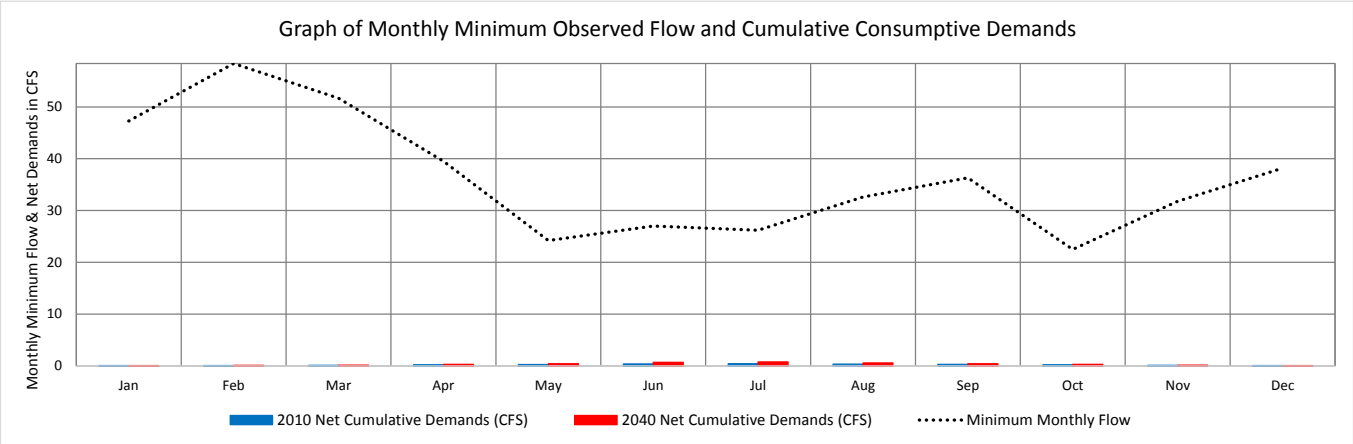
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	176	206	246	173	125	115	118	116	112	93	110	130	143
Median (CFS)	167	174	197	118	88	107	78	80	69	63	79	106	141
10th Percentile (CFS)	83	85	90	56	38	32	44	40	43	36	40	60	81
Minimum (CFS)	47	58	52	40	24	27	26	33	36	23	32	38	48

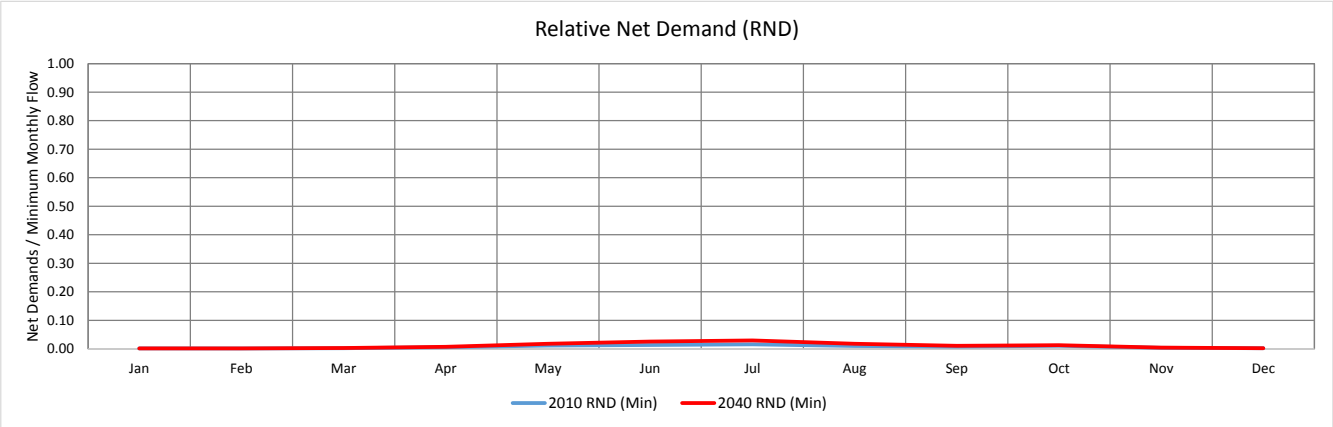
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140104 Name: Blackwater River Subbasin in Alabama

Drainage Area: 88 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.08	0.09	0.12	0.22	0.28	0.37	0.42	0.34	0.30	0.24	0.13	0.09	0.22
2040 Net Cumulative Demands (CFS)	0.08	0.10	0.14	0.29	0.44	0.69	0.78	0.58	0.40	0.28	0.13	0.09	0.33

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	176	206	246	173	125	115	118	116	112	93	110	130	143
Median (CFS)	167	174	197	118	88	107	78	80	69	63	79	106	141
10th Percentile (CFS)	83	85	90	56	38	32	44	40	43	36	40	60	81
Minimum (CFS)	47	58	52	40	24	27	26	33	36	23	32	38	48

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.02	0.01	0.01	0.00	0.00	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

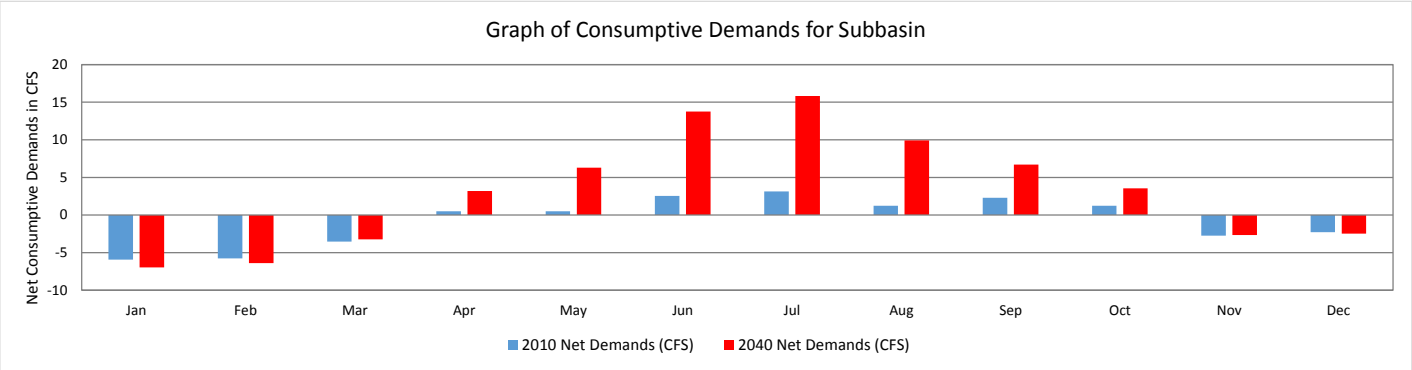
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

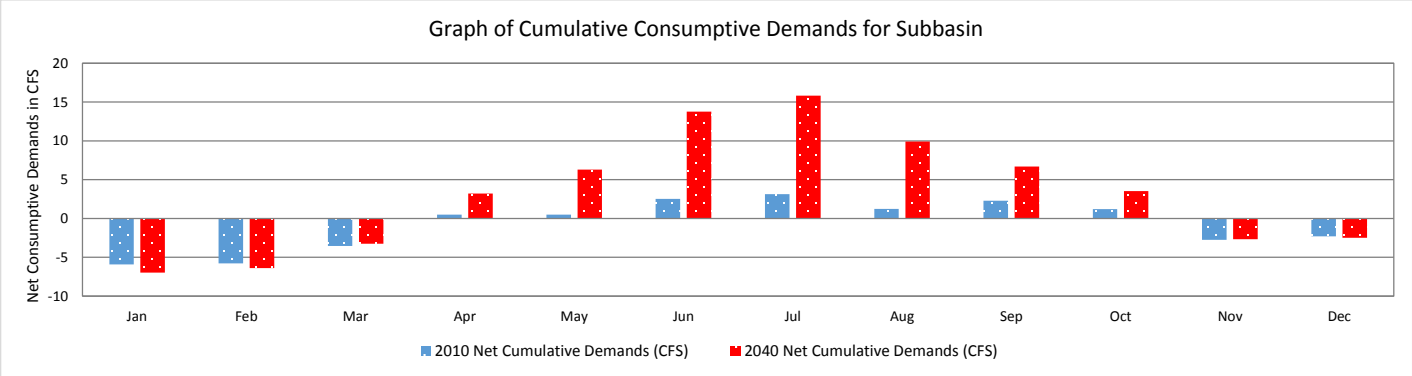
Subbasin Flows and Consumptive Demands

Subbasin #: 03140106 Name: Perdido River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 920 square miles

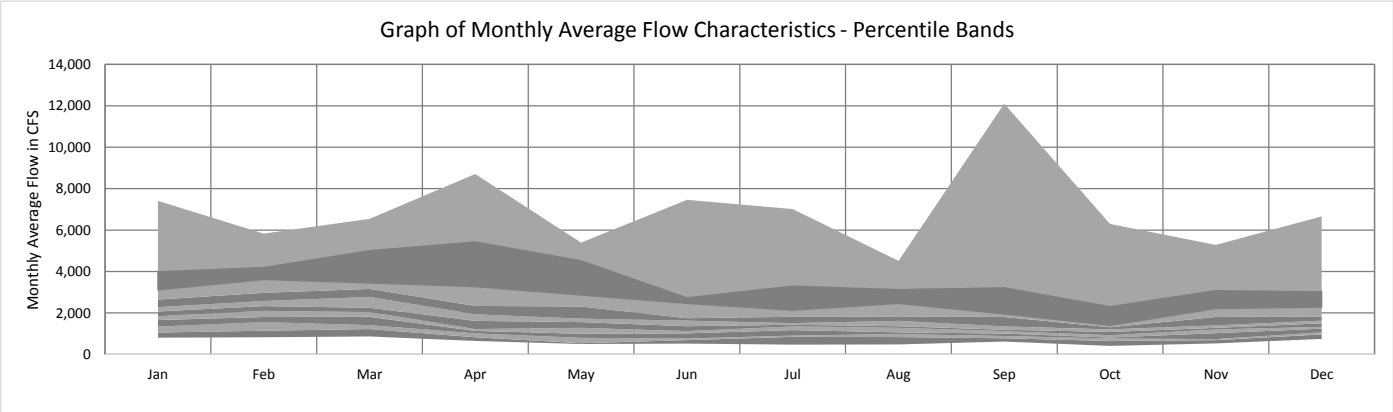
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-5.93	-5.77	-3.54	0.50	0.50	2.54	3.13	1.24	2.29	1.22	-2.75	-2.30	-0.74
2040 Net Demands (CFS)	-6.97	-6.39	-3.24	3.20	6.29	13.76	15.83	9.91	6.70	3.54	-2.67	-2.48	3.12



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-5.93	-5.77	-3.54	0.50	0.50	2.54	3.13	1.24	2.29	1.22	-2.75	-2.30	-0.74
2040 Net Cumulative Demands (CFS)	-6.97	-6.39	-3.24	3.20	6.29	13.76	15.83	9.91	6.70	3.54	-2.67	-2.48	3.12



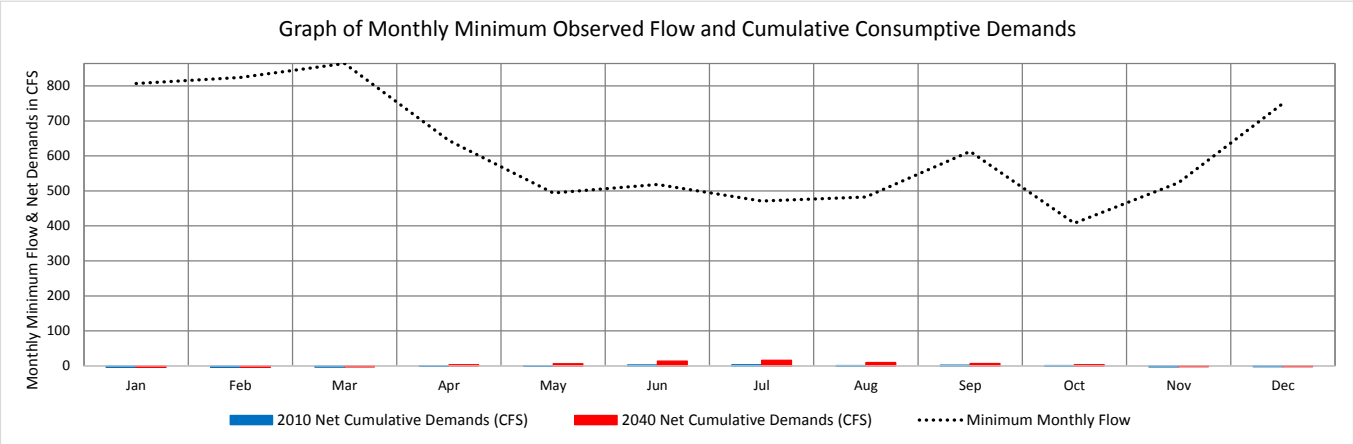
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787	1,992
Median (CFS)	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502	2,036
10th Percentile (CFS)	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961	1,211
Minimum (CFS)	807	824	864	644	494	518	471	483	613	408	524	750	755

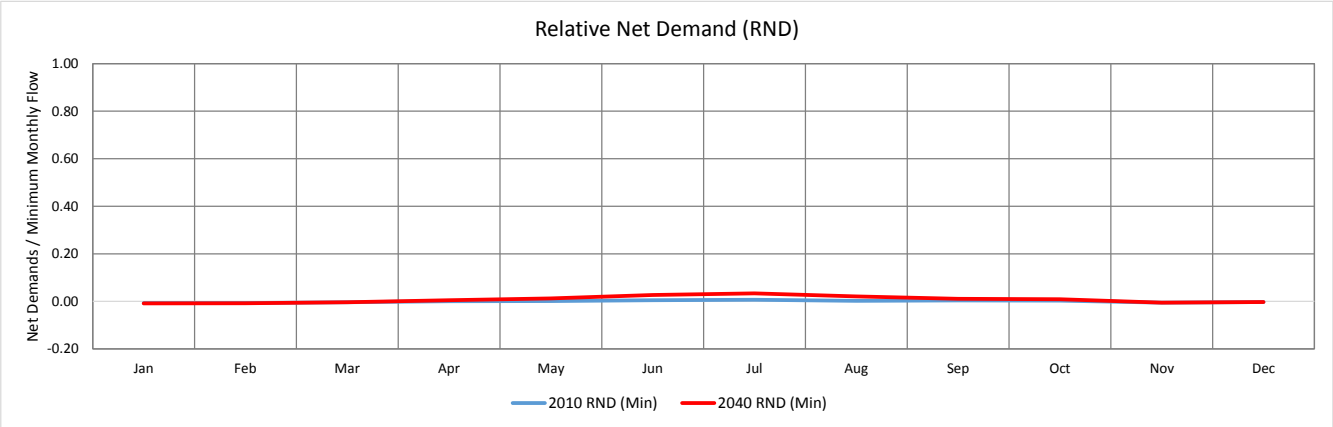
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140106 Name: Perdido River Subbasin

Drainage Area: 920 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-5.93	-5.77	-3.54	0.50	0.50	2.54	3.13	1.24	2.29	1.22	-2.75	-2.30	-0.74
2040 Net Cumulative Demands (CFS)	-6.97	-6.39	-3.24	3.20	6.29	13.76	15.83	9.91	6.70	3.54	-2.67	-2.48	3.12

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787	1,992
Median (CFS)	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502	2,036
10th Percentile (CFS)	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961	1,211
Minimum (CFS)	807	824	864	644	494	518	471	483	613	408	524	750	755

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	0.00
2040 RND (Min)	-0.01	-0.01	0.00	0.00	0.01	0.03	0.03	0.02	0.01	0.01	-0.01	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

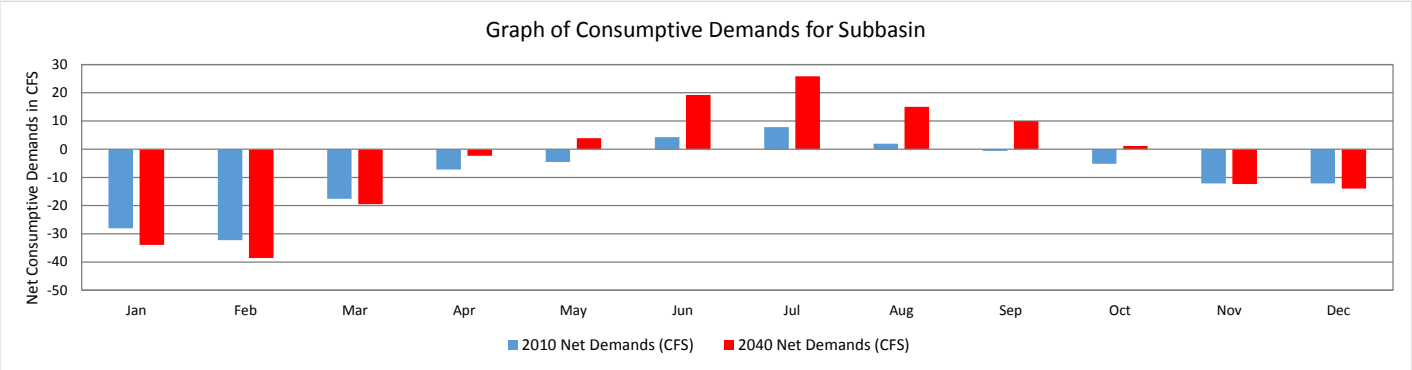
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

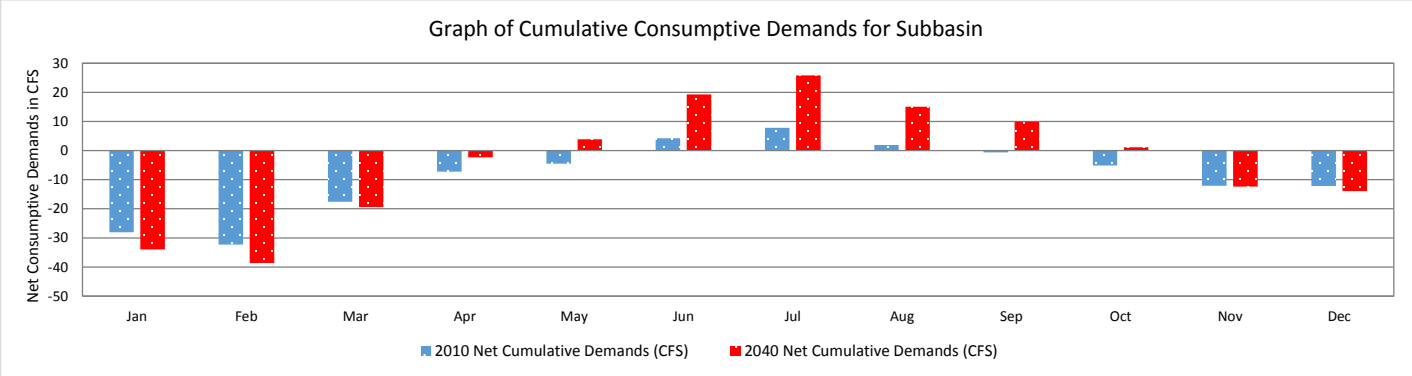
Subbasin Flows and Consumptive Demands

Subbasin #: 03140201 Name: Upper Choctawhatchee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,560 square miles

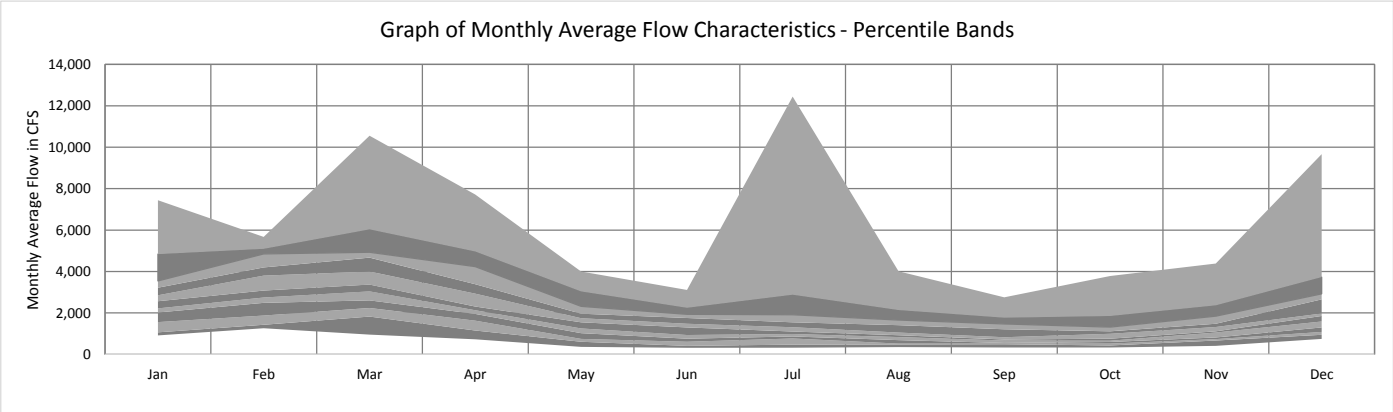
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-28.03	-32.27	-17.61	-7.21	-4.52	4.26	7.83	1.93	-0.60	-5.16	-12.12	-12.13	-8.80
2040 Net Demands (CFS)	-33.95	-38.59	-19.44	-2.31	3.90	19.27	25.83	15.04	9.97	1.13	-12.35	-13.95	-3.79



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-28.03	-32.27	-17.61	-7.21	-4.52	4.26	7.83	1.93	-0.60	-5.16	-12.12	-12.13	-8.80
2040 Net Cumulative Demands (CFS)	-33.95	-38.59	-19.44	-2.31	3.90	19.27	25.83	15.04	9.97	1.13	-12.35	-13.95	-3.79



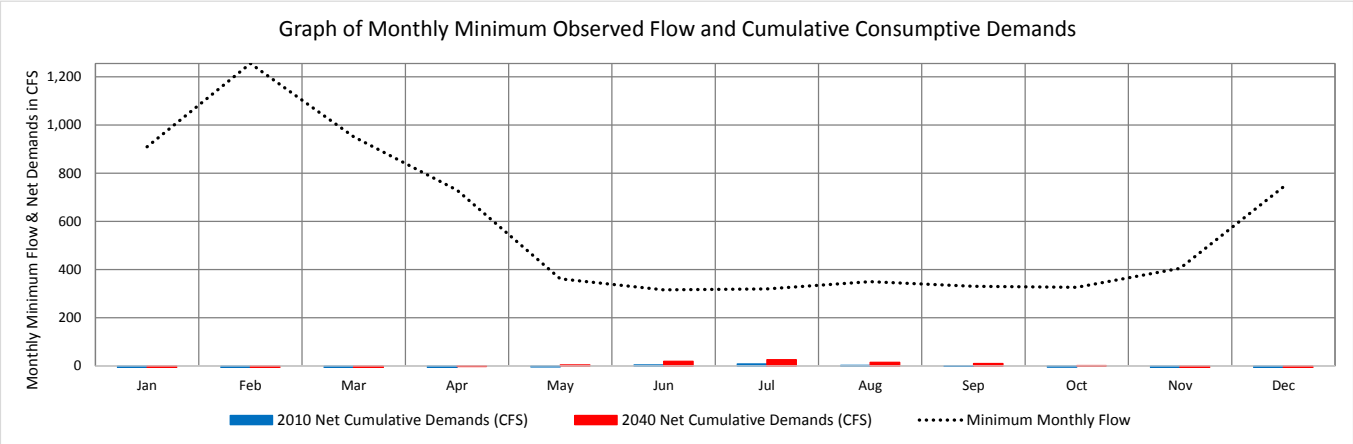
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228	2,029
Median (CFS)	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852	2,035
10th Percentile (CFS)	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943	1,130
Minimum (CFS)	910	1,255	952	729	361	316	320	350	331	326	405	743	819

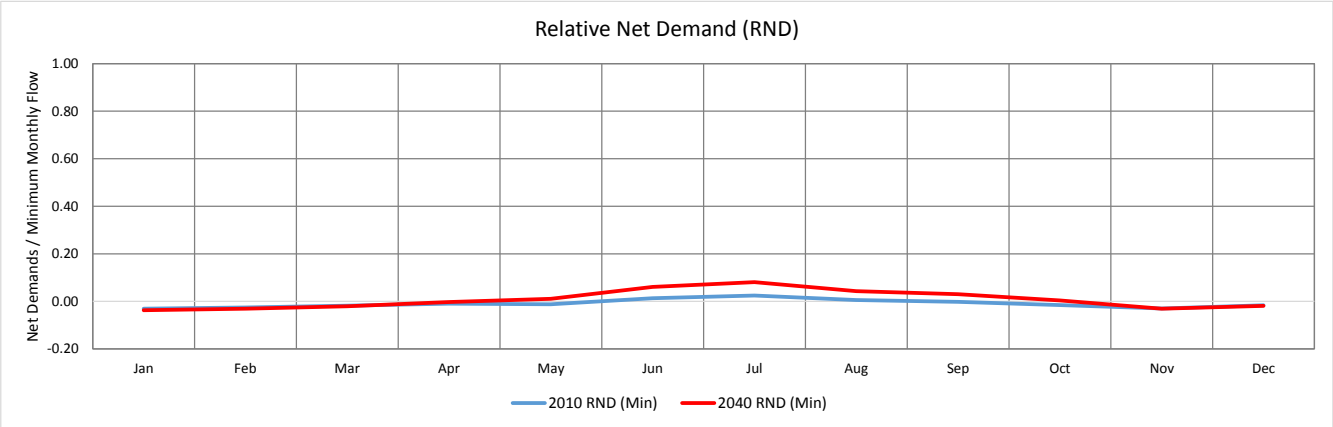
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140201 Name: Upper Choctawhatchee River Subbasin

Drainage Area: 1,560 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-28.03	-32.27	-17.61	-7.21	-4.52	4.26	7.83	1.93	-0.60	-5.16	-12.12	-12.13	-8.80
2040 Net Cumulative Demands (CFS)	-33.95	-38.59	-19.44	-2.31	3.90	19.27	25.83	15.04	9.97	1.13	-12.35	-13.95	-3.79

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228	2,029
Median (CFS)	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852	2,035
10th Percentile (CFS)	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943	1,130
Minimum (CFS)	910	1,255	952	729	361	316	320	350	331	326	405	743	819

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.03	-0.03	-0.02	-0.01	-0.01	0.01	0.02	0.01	0.00	-0.02	-0.03	-0.02	-0.01
2040 RND (Min)	-0.04	-0.03	-0.02	0.00	0.01	0.06	0.08	0.04	0.03	0.00	-0.03	-0.02	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

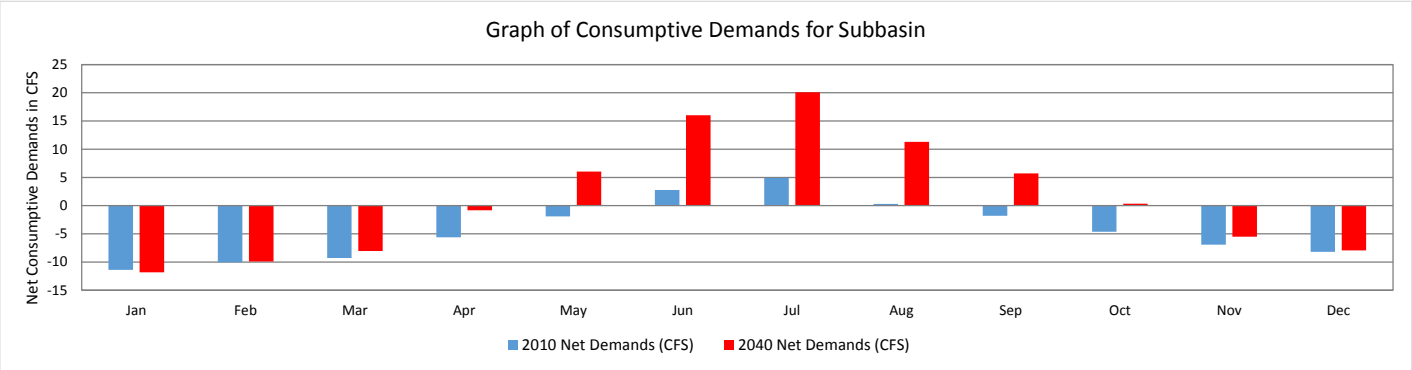
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	0.00
2040 RND (Avg)	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.02	0.01	0.01	0.00	-0.01	-0.01	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

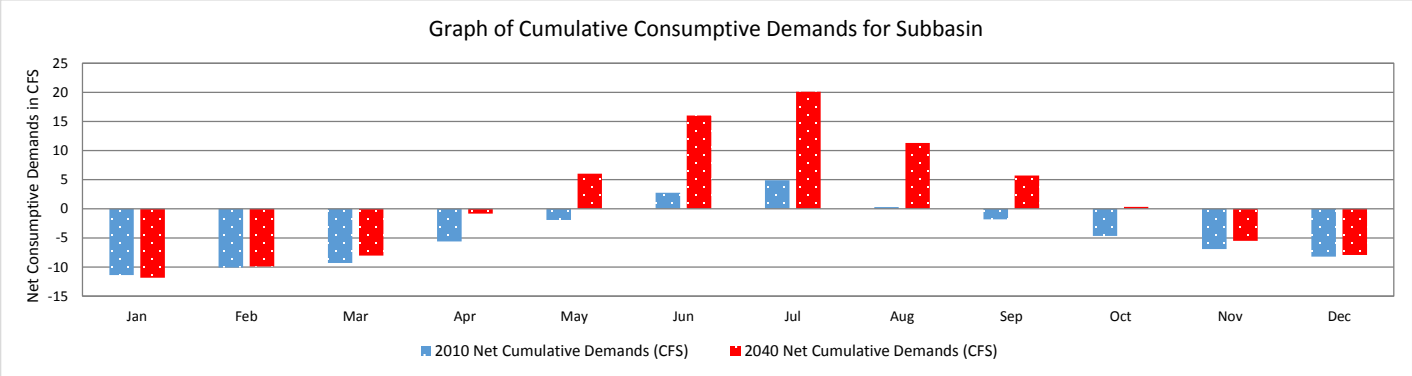
Subbasin Flows and Consumptive Demands

Subbasin #: 03140202 Name: Pea River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,552 square miles

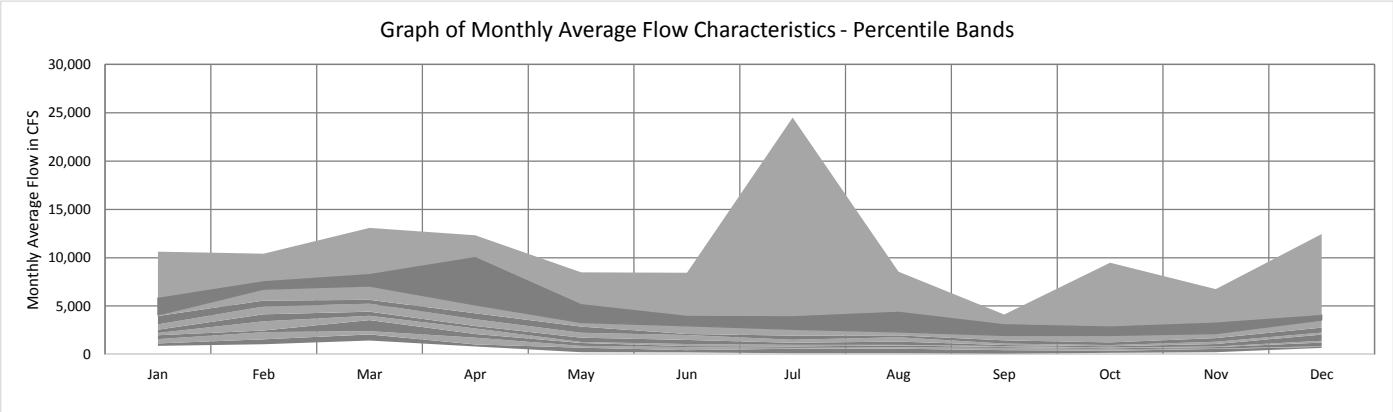
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-11.38	-10.07	-9.30	-5.62	-1.92	2.76	4.92	0.30	-1.81	-4.65	-6.93	-8.20	-4.33
2040 Net Demands (CFS)	-11.83	-9.89	-8.04	-0.82	6.03	16.00	20.10	11.32	5.70	0.35	-5.50	-7.93	1.29



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-11.38	-10.07	-9.30	-5.62	-1.92	2.76	4.92	0.30	-1.81	-4.65	-6.93	-8.20	-4.33
2040 Net Cumulative Demands (CFS)	-11.83	-9.89	-8.04	-0.82	6.03	16.00	20.10	11.32	5.70	0.35	-5.50	-7.93	1.29



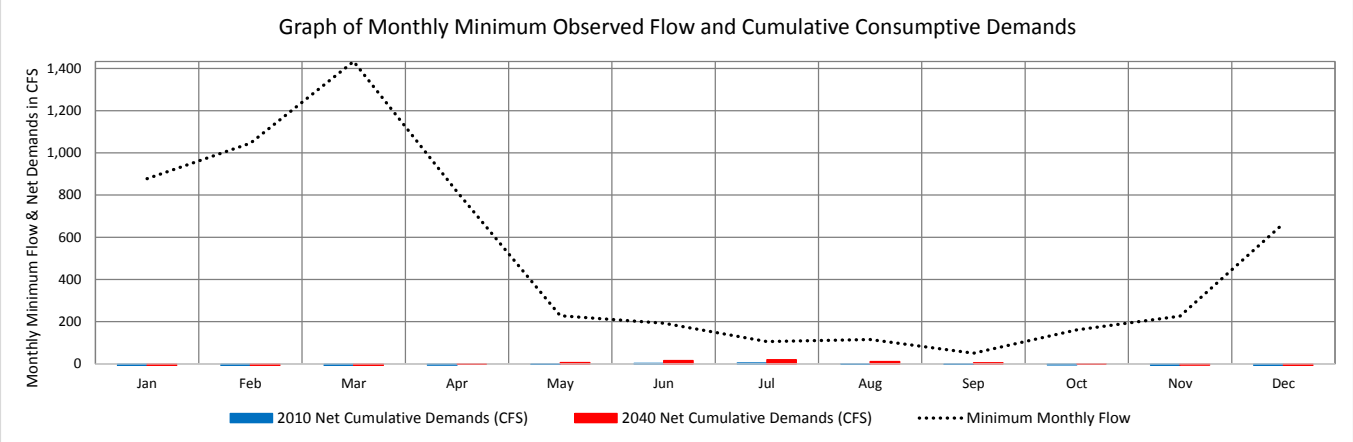
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467	2,649
Median (CFS)	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037	2,524
10th Percentile (CFS)	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774	1,287
Minimum (CFS)	878	1,046	1,433	816	228	193	106	115	51	161	226	665	556

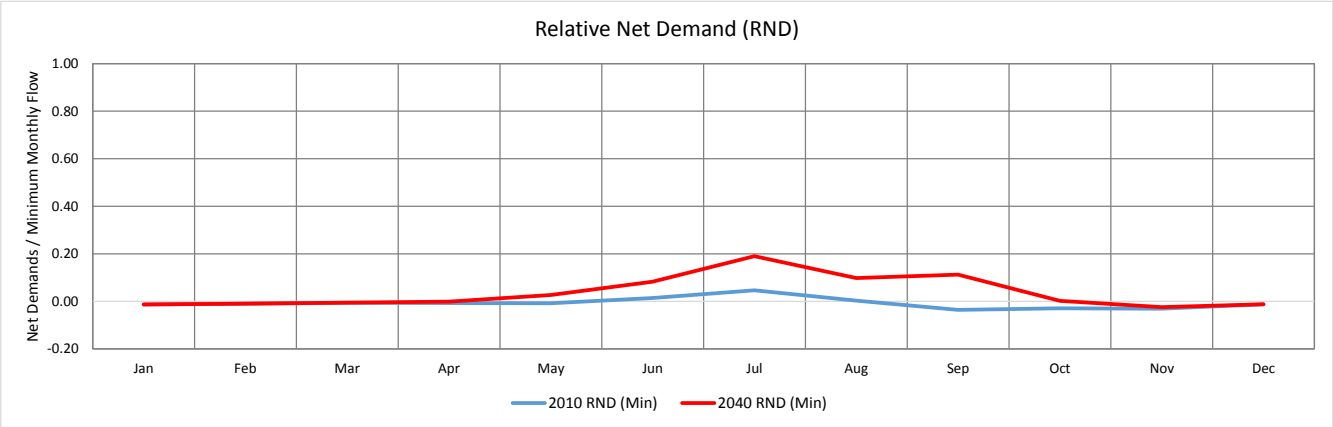
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140202 Name: Pea River Subbasin

Drainage Area: 1,552 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-11.38	-10.07	-9.30	-5.62	-1.92	2.76	4.92	0.30	-1.81	-4.65	-6.93	-8.20	-4.33
2040 Net Cumulative Demands (CFS)	-11.83	-9.89	-8.04	-0.82	6.03	16.00	20.10	11.32	5.70	0.35	-5.50	-7.93	1.29

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467	2,649
Median (CFS)	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037	2,524
10th Percentile (CFS)	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774	1,287
Minimum (CFS)	878	1,046	1,433	816	228	193	106	115	51	161	226	665	556

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	-0.01	-0.01	-0.01	-0.01	0.01	0.05	0.00	-0.04	-0.03	-0.03	-0.01	-0.01
2040 RND (Min)	-0.01	-0.01	-0.01	0.00	0.03	0.08	0.19	0.10	0.11	0.00	-0.02	-0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

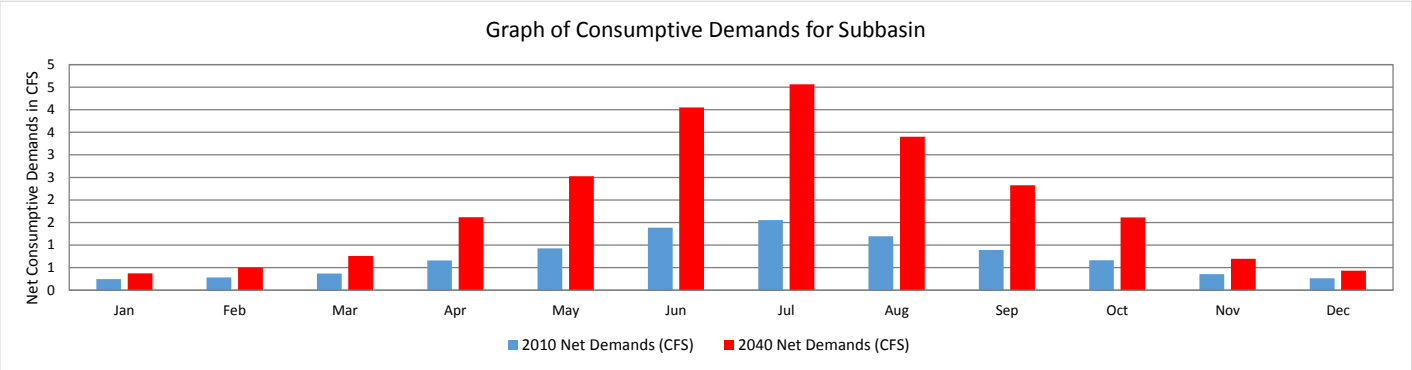
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

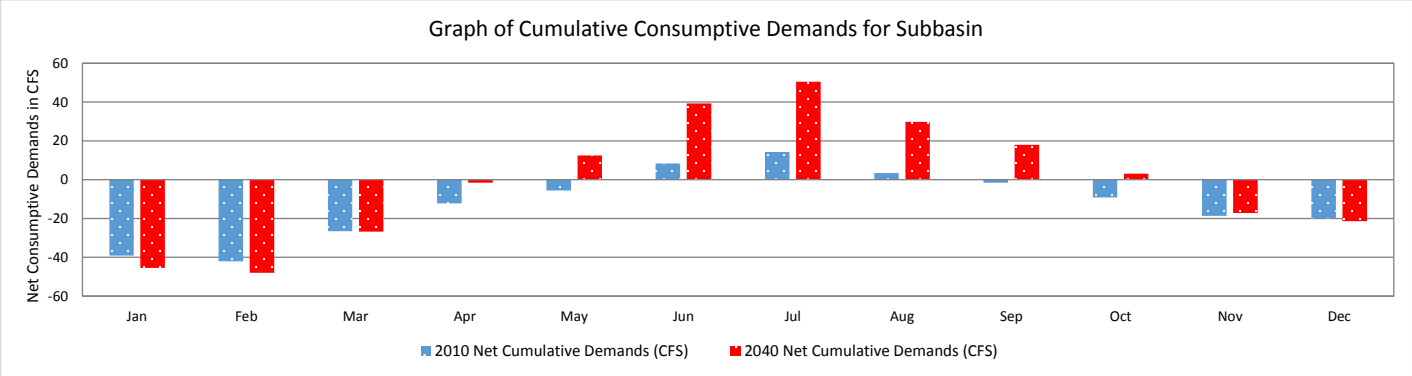
Subbasin Flows and Consumptive Demands

Subbasin #: 03140203 Name: Lower Choctawhatchee River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,159 square miles

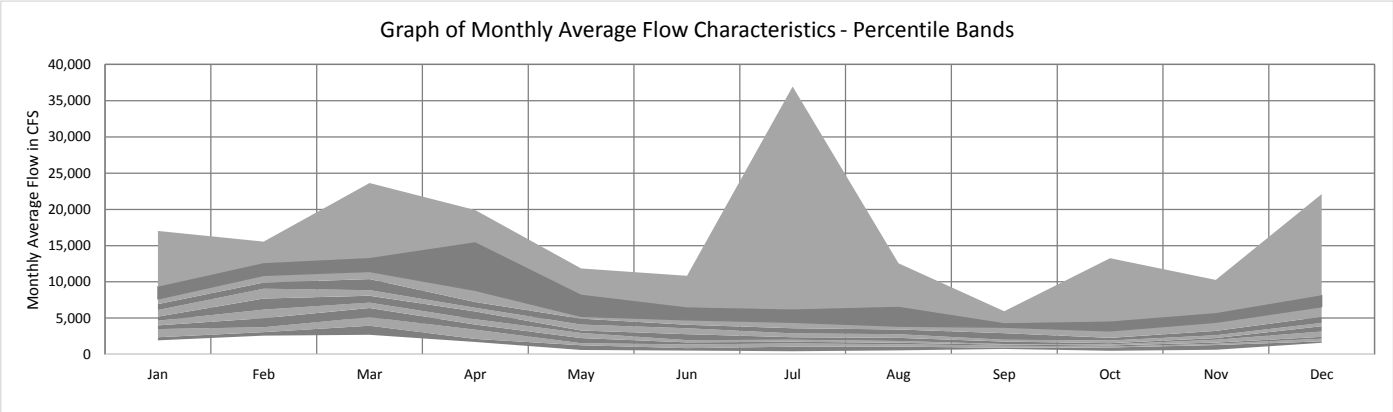
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	0.24	0.28	0.37	0.66	0.93	1.39	1.55	1.20	0.89	0.67	0.36	0.27	0.73
2040 Net Demands (CFS)	0.37	0.50	0.76	1.62	2.52	4.05	4.56	3.40	2.33	1.61	0.70	0.43	1.90



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-39.17	-42.05	-26.53	-12.17	-5.51	8.40	14.30	3.43	-1.52	-9.15	-18.69	-20.07	-12.39
2040 Net Cumulative Demands (CFS)	-45.40	-47.98	-26.72	-1.51	12.46	39.32	50.50	29.76	17.99	3.09	-17.16	-21.44	-0.59



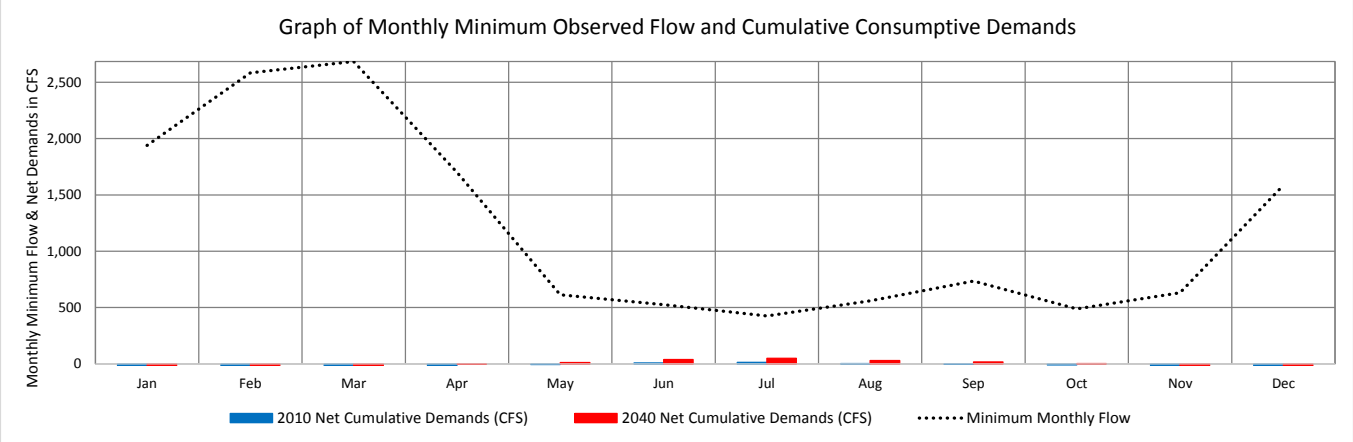
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695	4,678
Median (CFS)	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891	4,773
10th Percentile (CFS)	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789	2,416
Minimum (CFS)	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585	1,447

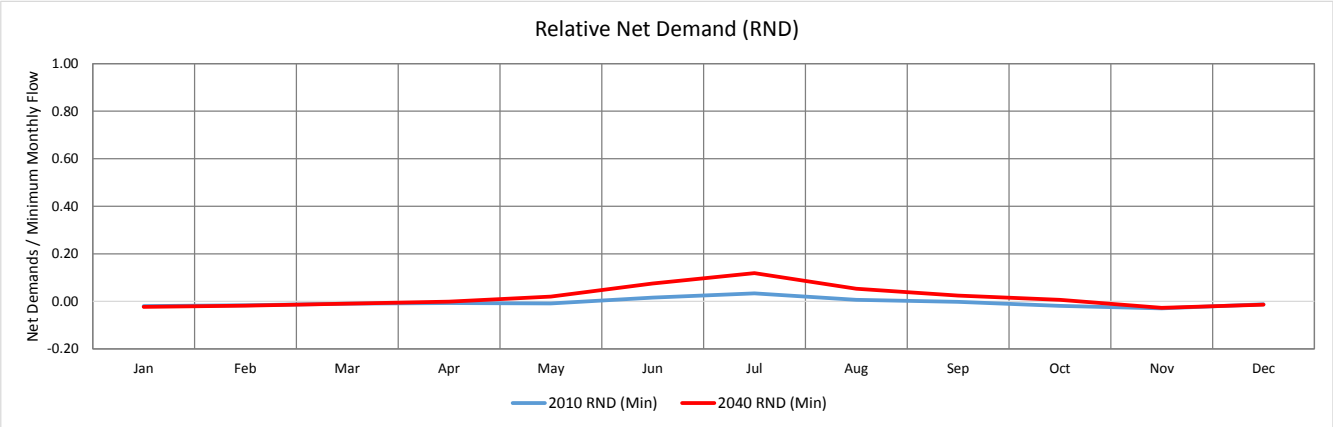
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140203 Name: Lower Choctawhatchee River Subbasin in Alabama

Drainage Area: 3,159 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-39.17	-42.05	-26.53	-12.17	-5.51	8.40	14.30	3.43	-1.52	-9.15	-18.69	-20.07	-12.39
2040 Net Cumulative Demands (CFS)	-45.40	-47.98	-26.72	-1.51	12.46	39.32	50.50	29.76	17.99	3.09	-17.16	-21.44	-0.59

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695	4,678
Median (CFS)	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891	4,773
10th Percentile (CFS)	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789	2,416
Minimum (CFS)	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585	1,447

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.02	-0.01	-0.01	-0.01	0.02	0.03	0.01	0.00	-0.02	-0.03	-0.01	-0.01
2040 RND (Min)	-0.02	-0.02	-0.01	0.00	0.02	0.07	0.12	0.05	0.02	0.01	-0.03	-0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

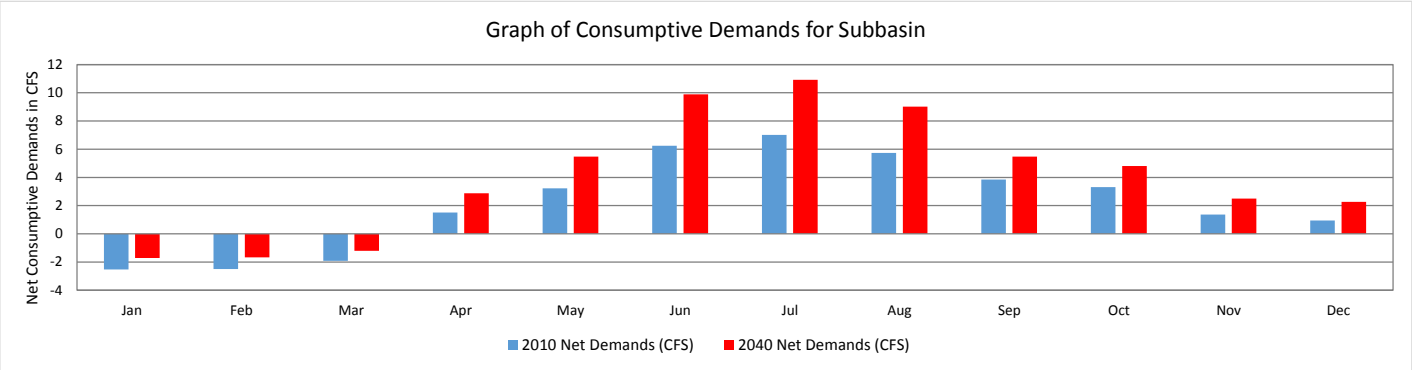
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00
2040 RND (Avg)	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	-0.01	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

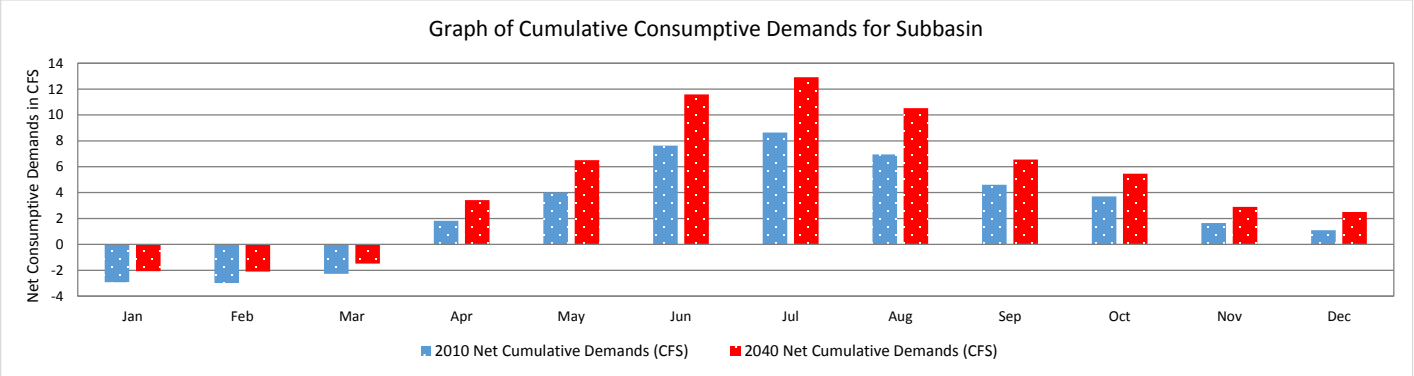
Subbasin Flows and Consumptive Demands

Subbasin #: 03140301 Name: Upper Conecuh River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,446 square miles

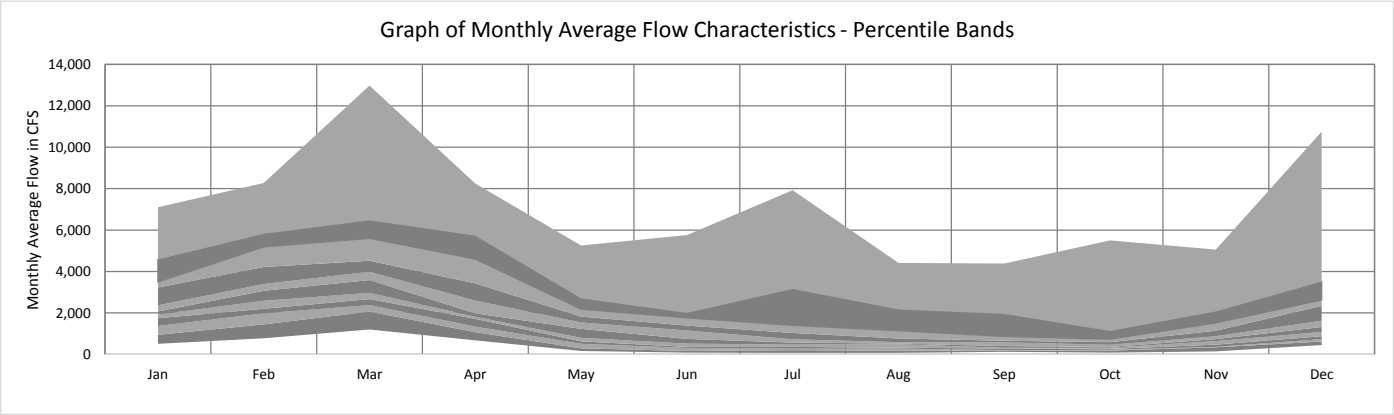
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-2.53	-2.49	-1.92	1.51	3.23	6.25	7.01	5.73	3.85	3.30	1.36	0.94	2.19
2040 Net Demands (CFS)	-1.72	-1.67	-1.21	2.87	5.47	9.89	10.93	9.02	5.47	4.80	2.49	2.26	4.05



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-2.93	-2.99	-2.28	1.82	4.01	7.63	8.64	6.95	4.61	3.71	1.64	1.09	2.66
2040 Net Cumulative Demands (CFS)	-2.07	-2.11	-1.48	3.42	6.51	11.59	12.92	10.53	6.55	5.47	2.90	2.50	4.73



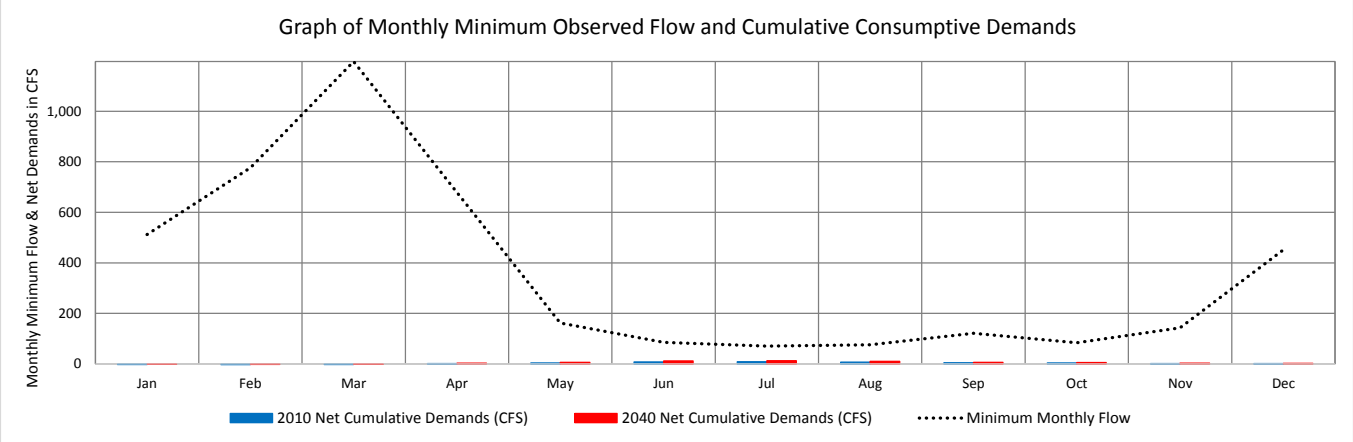
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931	1,839
Median (CFS)	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323	1,911
10th Percentile (CFS)	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619	878
Minimum (CFS)	513	777	1,197	678	162	85	70	76	121	83	143	452	483

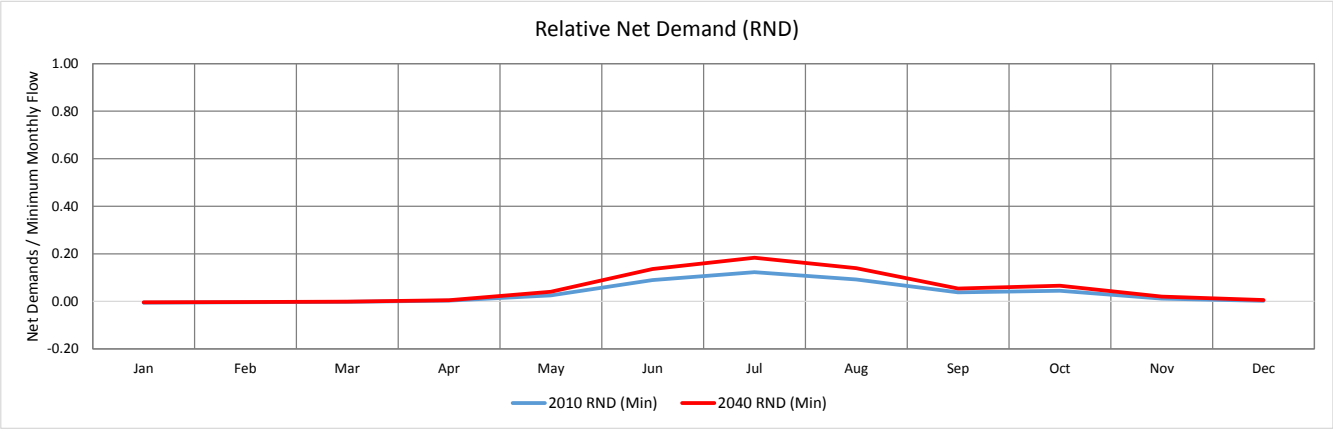
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140301 Name: Upper Conecuh River Subbasin

Drainage Area: 1,446 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-2.93	-2.99	-2.28	1.82	4.01	7.63	8.64	6.95	4.61	3.71	1.64	1.09	2.66
2040 Net Cumulative Demands (CFS)	-2.07	-2.11	-1.48	3.42	6.51	11.59	12.92	10.53	6.55	5.47	2.90	2.50	4.73

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931	1,839
Median (CFS)	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323	1,911
10th Percentile (CFS)	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619	878
Minimum (CFS)	513	777	1,197	678	162	85	70	76	121	83	143	452	483

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	0.00	0.00	0.00	0.02	0.09	0.12	0.09	0.04	0.04	0.01	0.00	0.01
2040 RND (Min)	0.00	0.00	0.00	0.01	0.04	0.14	0.18	0.14	0.05	0.07	0.02	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

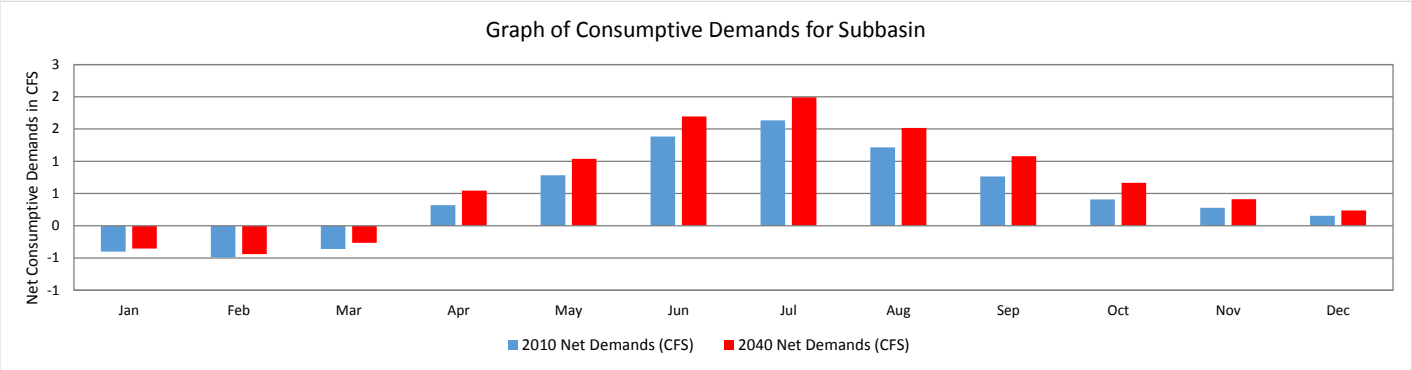
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

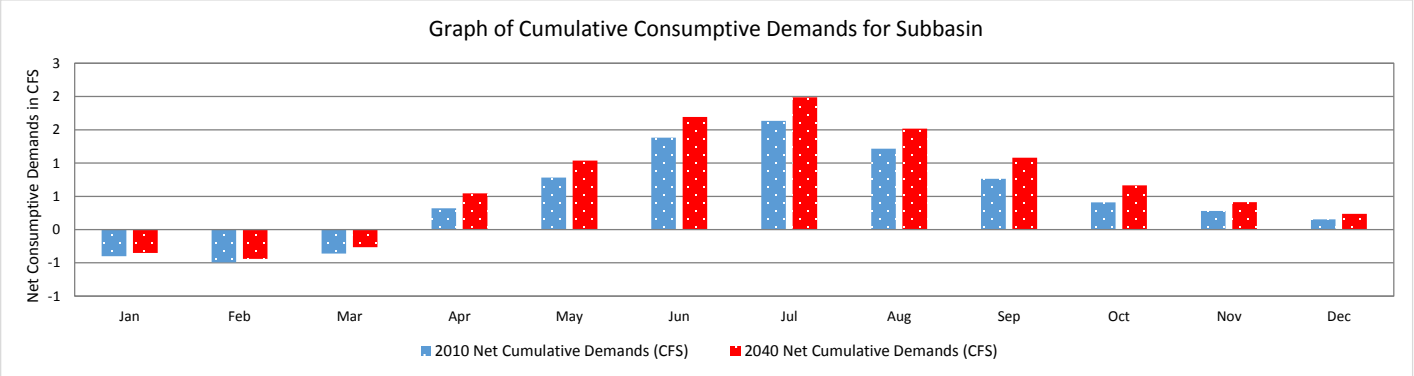
Subbasin Flows and Consumptive Demands

Subbasin #: 03140302 Name: Patsaliga Creek Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 593 square miles

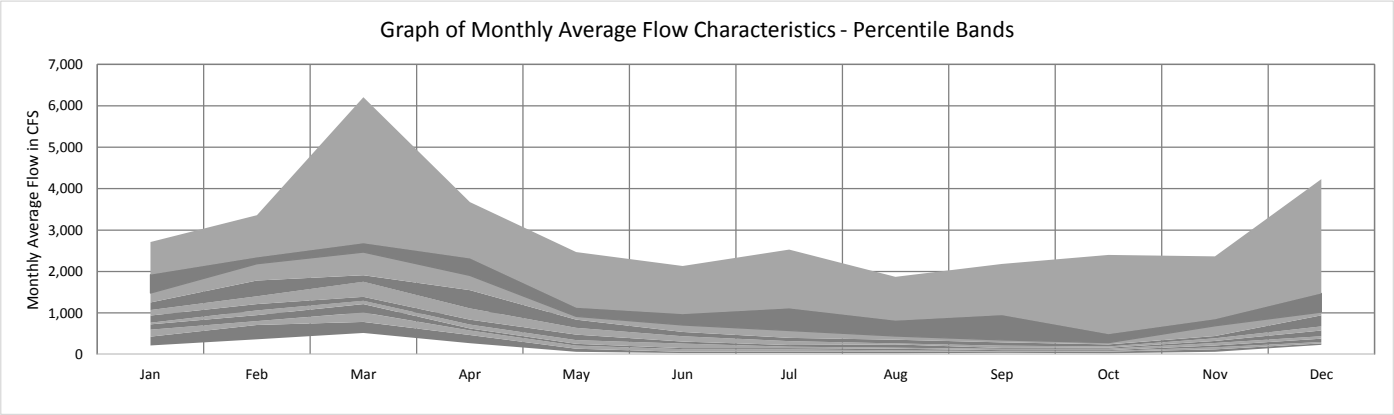
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-0.40	-0.49	-0.36	0.32	0.78	1.38	1.63	1.21	0.76	0.41	0.28	0.15	0.47
2040 Net Demands (CFS)	-0.35	-0.44	-0.27	0.54	1.04	1.69	1.99	1.52	1.08	0.67	0.41	0.24	0.68



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-0.40	-0.49	-0.36	0.32	0.78	1.38	1.63	1.21	0.76	0.41	0.28	0.15	0.47
2040 Net Cumulative Demands (CFS)	-0.35	-0.44	-0.27	0.54	1.04	1.69	1.99	1.52	1.08	0.67	0.41	0.24	0.68



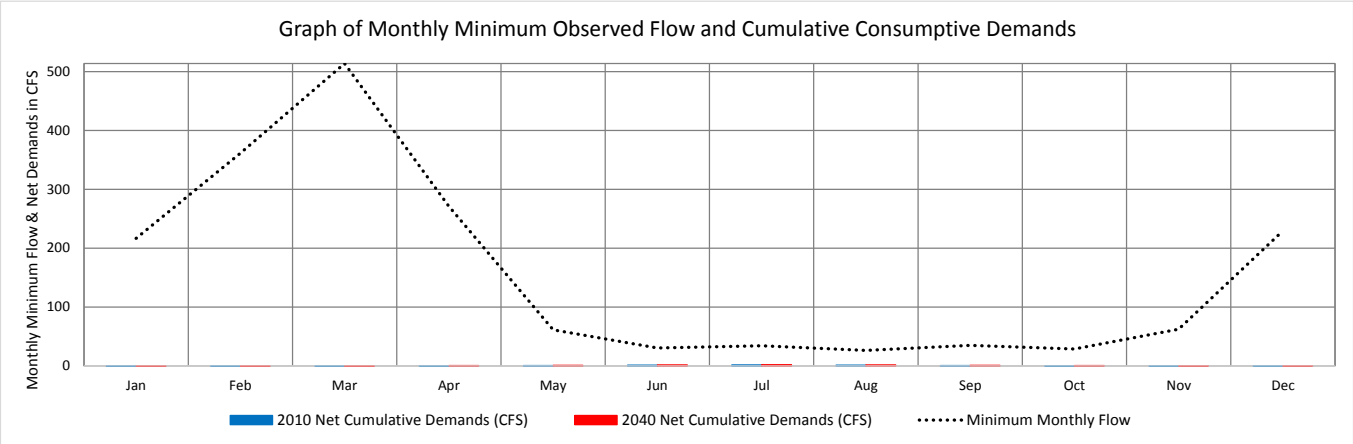
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798	769
Median (CFS)	936	1,214	1,389	837	477	310	224	238	155	158	323	577	766
10th Percentile (CFS)	427	708	782	466	136	63	68	68	63	64	121	266	325
Minimum (CFS)	217	361	514	271	61	31	34	26	35	29	62	229	226

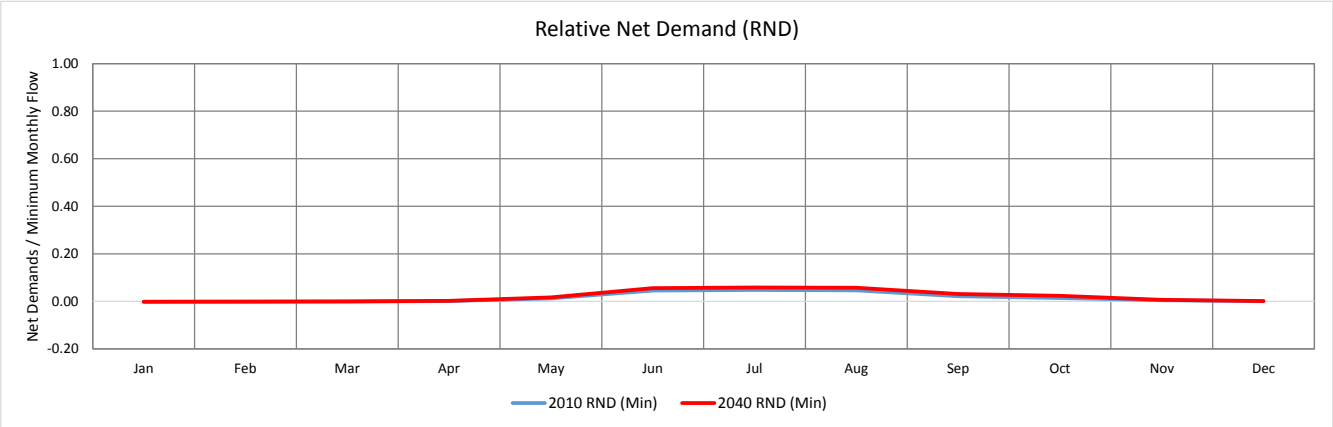
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140302 Name: Patsaliga Creek Subbasin

Drainage Area: 593 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-0.40	-0.49	-0.36	0.32	0.78	1.38	1.63	1.21	0.76	0.41	0.28	0.15	0.47
2040 Net Cumulative Demands (CFS)	-0.35	-0.44	-0.27	0.54	1.04	1.69	1.99	1.52	1.08	0.67	0.41	0.24	0.68

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798	769
Median (CFS)	936	1,214	1,389	837	477	310	224	238	155	158	323	577	766
10th Percentile (CFS)	427	708	782	466	136	63	68	68	63	64	121	266	325
Minimum (CFS)	217	361	514	271	61	31	34	26	35	29	62	229	226

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.05	0.05	0.05	0.02	0.01	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.00	0.02	0.06	0.06	0.06	0.03	0.02	0.01	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

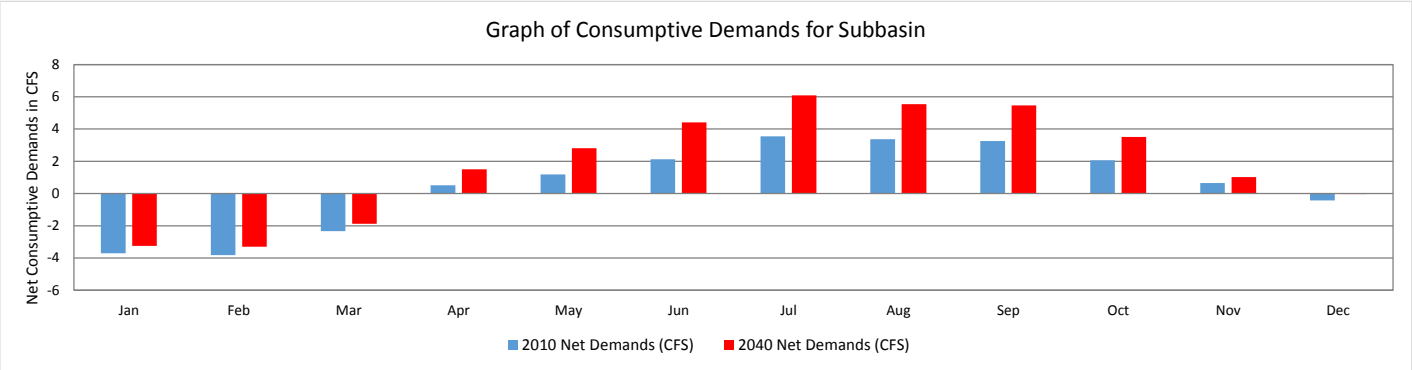
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

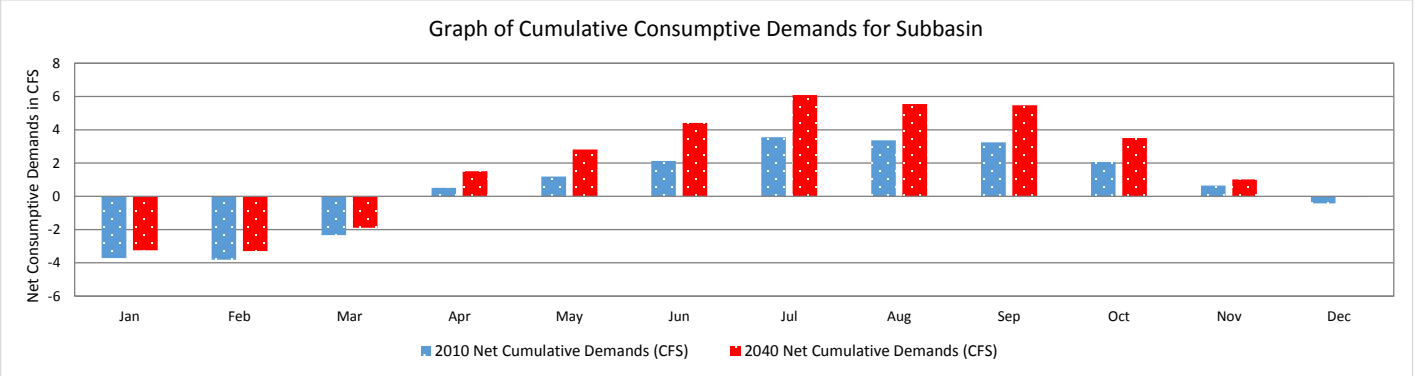
Subbasin Flows and Consumptive Demands

Subbasin #: 03140303 Name: Sepulga River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,017 square miles

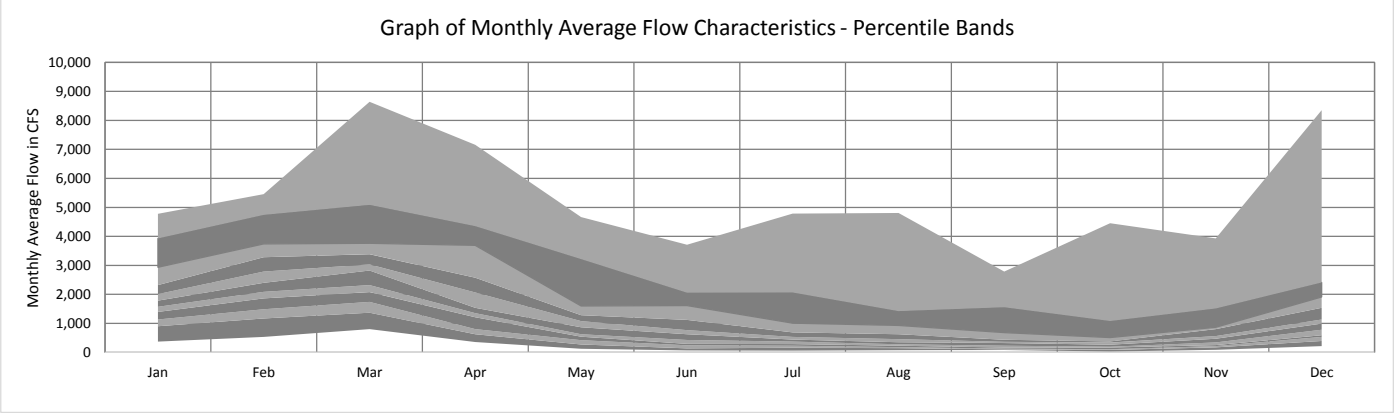
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-3.71	-3.82	-2.34	0.51	1.19	2.12	3.55	3.37	3.25	2.06	0.65	-0.42	0.53
2040 Net Demands (CFS)	-3.25	-3.30	-1.88	1.50	2.81	4.41	6.09	5.55	5.47	3.51	1.02	-0.04	1.82



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-3.71	-3.82	-2.34	0.51	1.19	2.12	3.55	3.37	3.25	2.06	0.65	-0.42	0.53
2040 Net Cumulative Demands (CFS)	-3.25	-3.30	-1.88	1.50	2.81	4.41	6.09	5.55	5.47	3.51	1.02	-0.04	1.82



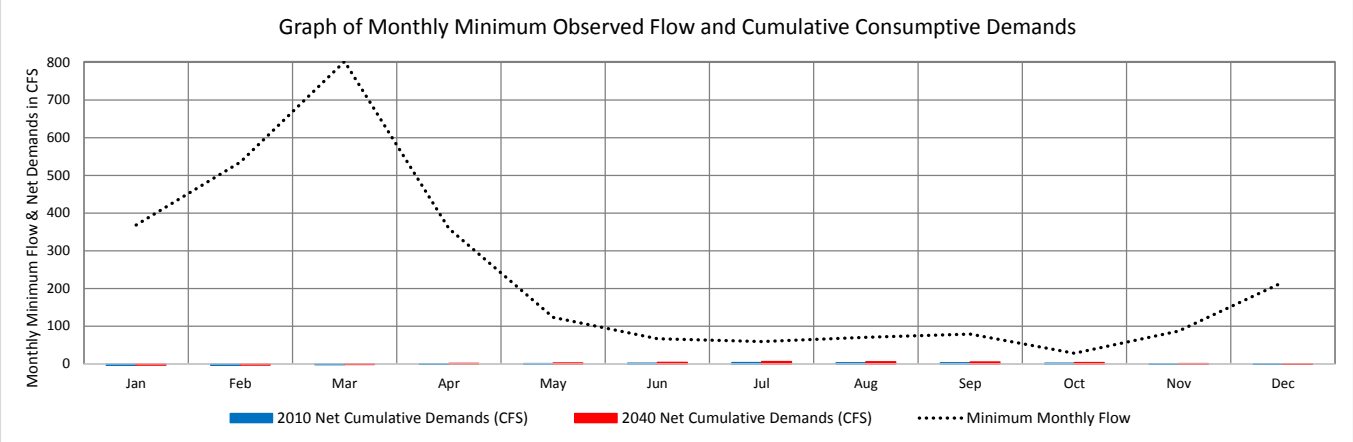
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355	1,385
Median (CFS)	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992	1,400
10th Percentile (CFS)	901	1,168	1,367	626	269	139	158	141	103	84	174	389	694
Minimum (CFS)	368	535	802	359	123	67	59	71	79	28	87	216	336

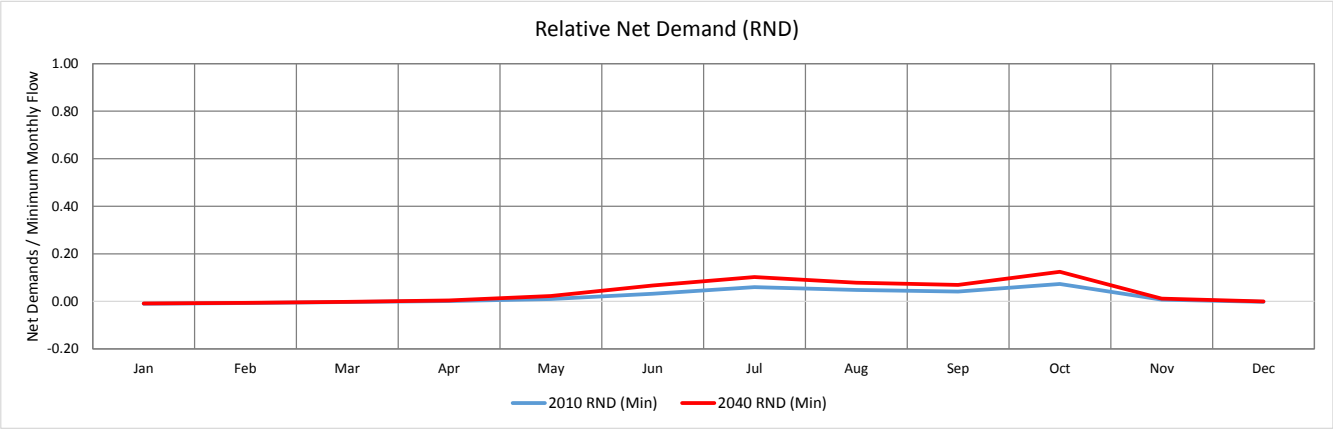
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140303 Name: Sepulga River Subbasin

Drainage Area: 1,017 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-3.71	-3.82	-2.34	0.51	1.19	2.12	3.55	3.37	3.25	2.06	0.65	-0.42	0.53
2040 Net Cumulative Demands (CFS)	-3.25	-3.30	-1.88	1.50	2.81	4.41	6.09	5.55	5.47	3.51	1.02	-0.04	1.82

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355	1,385
Median (CFS)	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992	1,400
10th Percentile (CFS)	901	1,168	1,367	626	269	139	158	141	103	84	174	389	694
Minimum (CFS)	368	535	802	359	123	67	59	71	79	28	87	216	336

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	-0.01	0.00	0.00	0.01	0.03	0.06	0.05	0.04	0.07	0.01	0.00	0.00
2040 RND (Min)	-0.01	-0.01	0.00	0.00	0.02	0.07	0.10	0.08	0.07	0.12	0.01	0.00	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

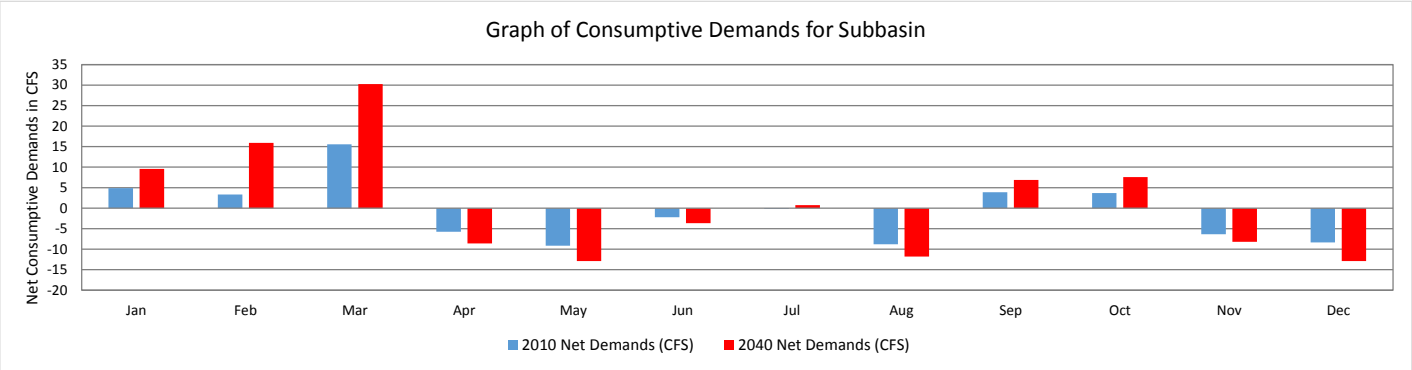
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

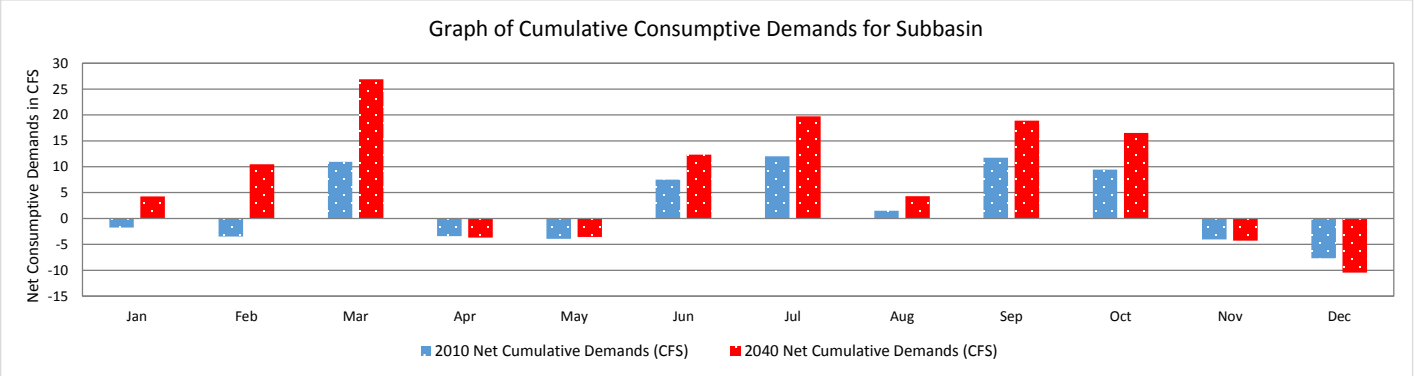
Subbasin Flows and Consumptive Demands

Subbasin #: 03140304 Name: Lower Conecuh River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,335 square miles

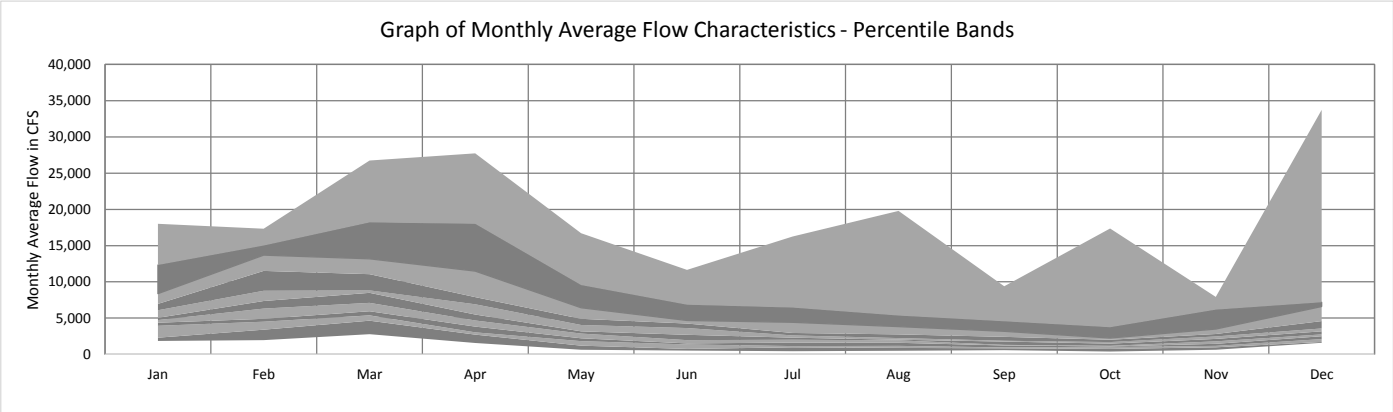
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	4.88	3.31	15.59	-5.76	-9.13	-2.23	-0.17	-8.81	3.88	3.66	-6.35	-8.37	-0.79
2040 Net Demands (CFS)	9.58	15.90	30.25	-8.62	-12.90	-3.66	0.72	-11.79	6.87	7.57	-8.19	-12.89	1.07



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-1.76	-3.49	10.97	-3.43	-3.93	7.52	12.03	1.51	11.74	9.44	-4.06	-7.70	2.40
2040 Net Cumulative Demands (CFS)	4.25	10.49	26.89	-3.70	-3.59	12.34	19.72	4.29	18.90	16.54	-4.27	-10.44	7.62



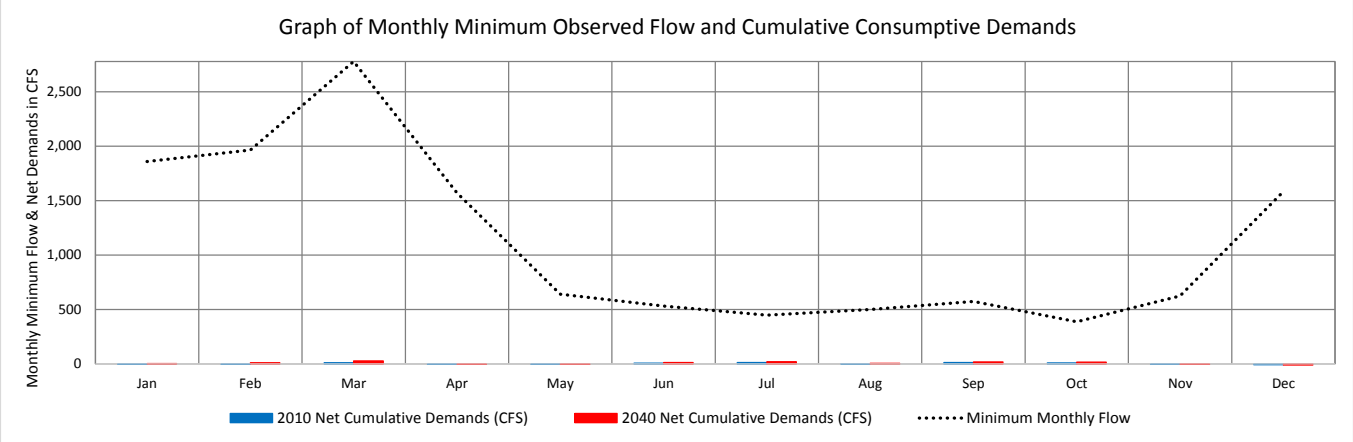
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722	4,894
Median (CFS)	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172	4,736
10th Percentile (CFS)	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699	2,190
Minimum (CFS)	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584	1,224

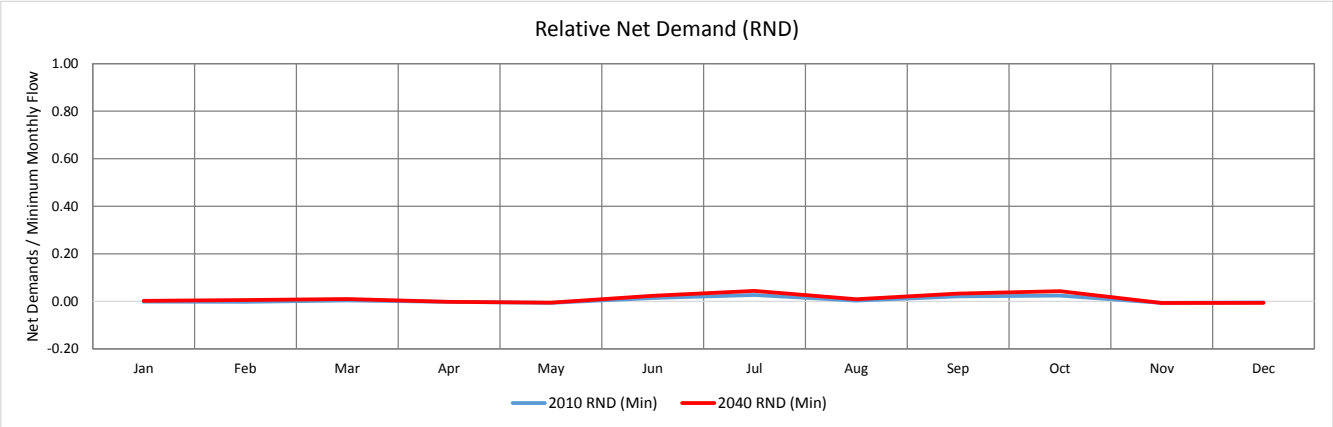
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140304 Name: Lower Conecuh River Subbasin in Alabama

Drainage Area: 3,335 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-1.76	-3.49	10.97	-3.43	-3.93	7.52	12.03	1.51	11.74	9.44	-4.06	-7.70	2.40
2040 Net Cumulative Demands (CFS)	4.25	10.49	26.89	-3.70	-3.59	12.34	19.72	4.29	18.90	16.54	-4.27	-10.44	7.62

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722	4,894
Median (CFS)	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172	4,736
10th Percentile (CFS)	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699	2,190
Minimum (CFS)	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584	1,224

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	-0.01	0.01	0.03	0.00	0.02	0.02	-0.01	0.00	0.00
2040 RND (Min)	0.00	0.01	0.01	0.00	-0.01	0.02	0.04	0.01	0.03	0.04	-0.01	-0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

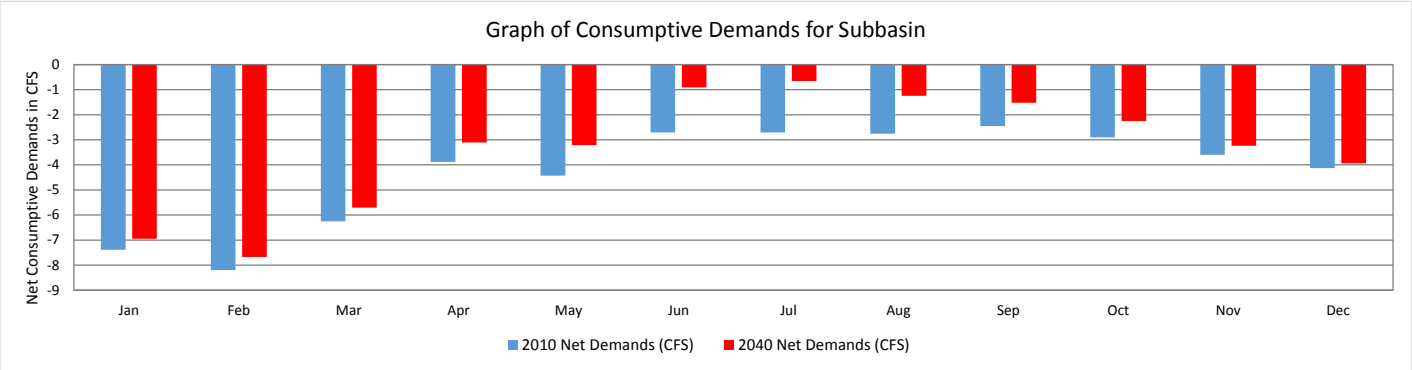
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

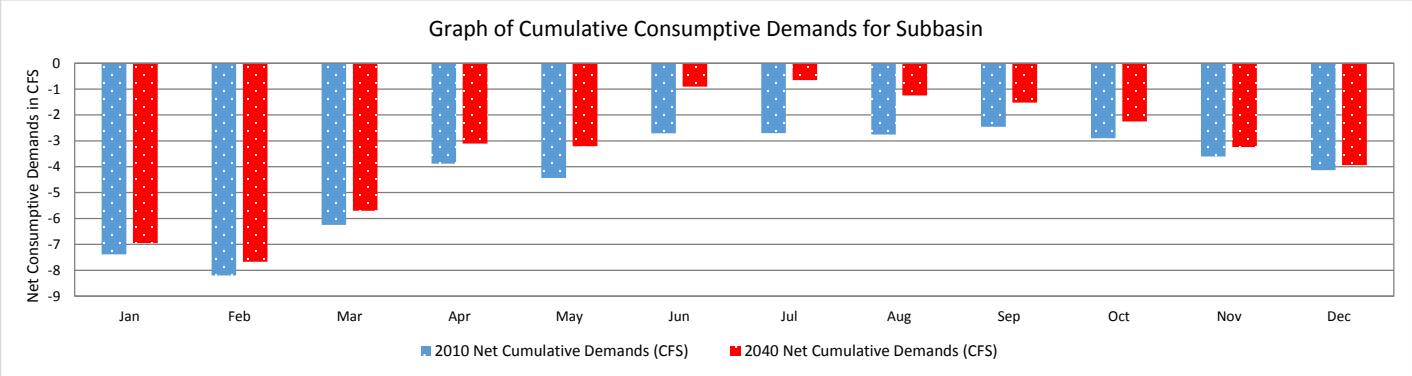
Subbasin Flows and Consumptive Demands

Subbasin #: 03140305 Name: Big Escambia Creek Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 330 square miles

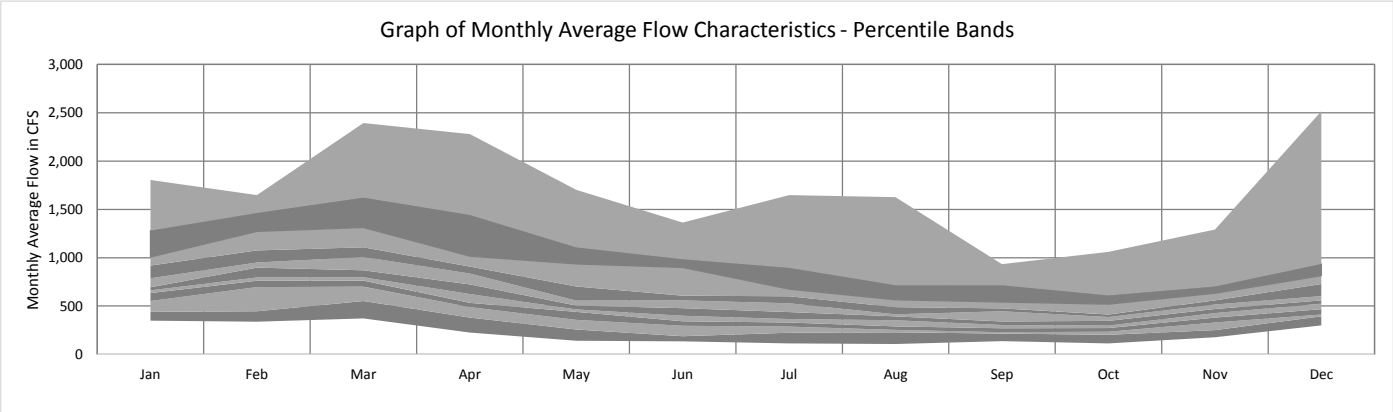
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-7.39	-8.20	-6.25	-3.88	-4.43	-2.71	-2.70	-2.76	-2.45	-2.90	-3.60	-4.13	-4.28
2040 Net Demands (CFS)	-6.95	-7.67	-5.70	-3.11	-3.21	-0.91	-0.65	-1.25	-1.52	-2.25	-3.24	-3.94	-3.37



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-7.39	-8.20	-6.25	-3.88	-4.43	-2.71	-2.70	-2.76	-2.45	-2.90	-3.60	-4.13	-4.28
2040 Net Cumulative Demands (CFS)	-6.95	-7.67	-5.70	-3.11	-3.21	-0.91	-0.65	-1.25	-1.52	-2.25	-3.24	-3.94	-3.37



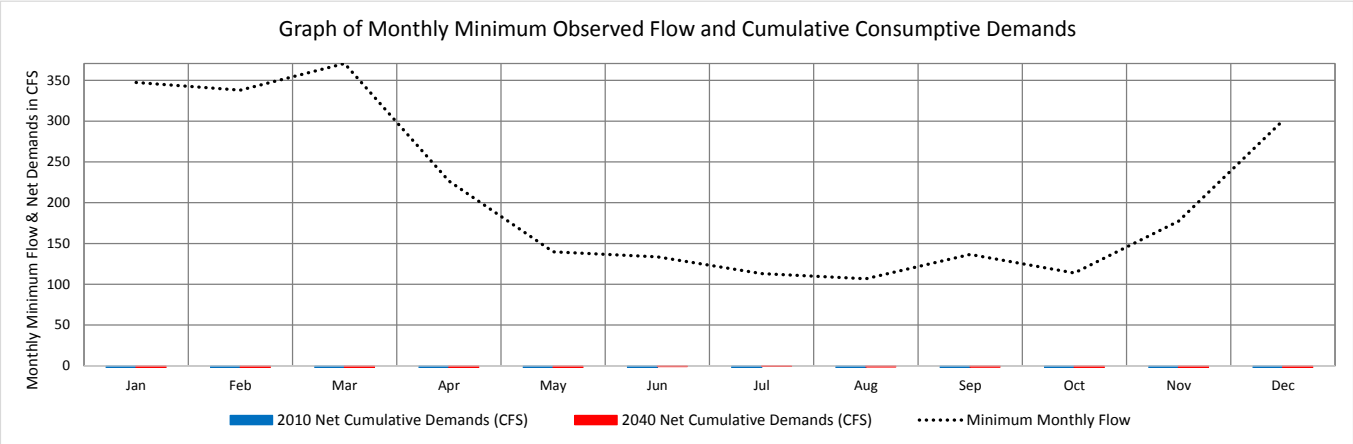
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	796	936	1,022	842	631	549	519	441	415	392	503	657	640
Median (CFS)	694	897	870	724	506	478	437	393	340	346	469	559	649
10th Percentile (CFS)	439	446	552	380	258	188	223	228	215	202	250	393	383
Minimum (CFS)	347	338	371	227	140	134	113	107	137	114	177	301	237

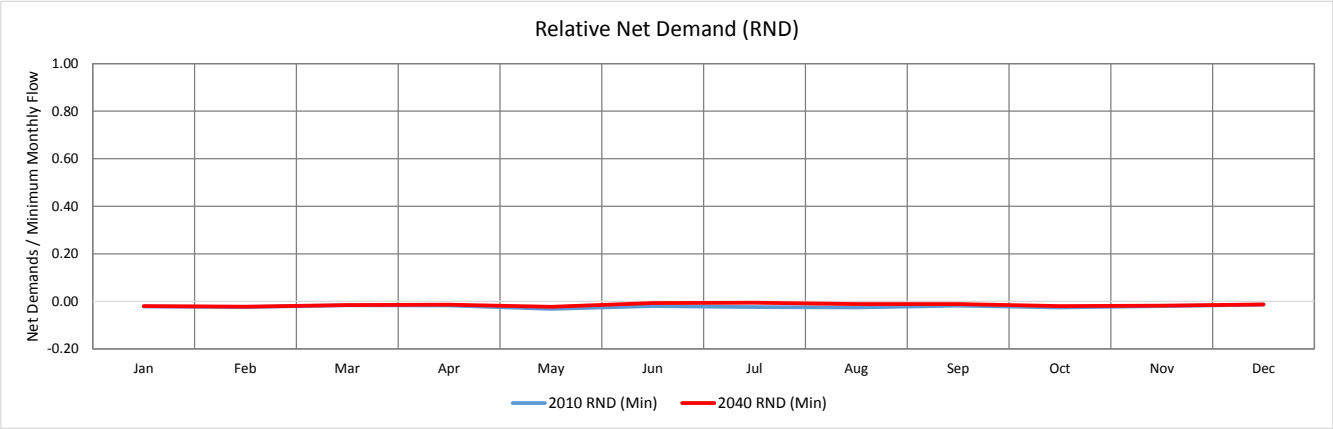
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03140305 Name: Big Escambia Creek Subbasin in Alabama

Drainage Area: 330 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-7.39	-8.20	-6.25	-3.88	-4.43	-2.71	-2.70	-2.76	-2.45	-2.90	-3.60	-4.13	-4.28
2040 Net Cumulative Demands (CFS)	-6.95	-7.67	-5.70	-3.11	-3.21	-0.91	-0.65	-1.25	-1.52	-2.25	-3.24	-3.94	-3.37

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	796	936	1,022	842	631	549	519	441	415	392	503	657	640
Median (CFS)	694	897	870	724	506	478	437	393	340	346	469	559	649
10th Percentile (CFS)	439	446	552	380	258	188	223	228	215	202	250	393	383
Minimum (CFS)	347	338	371	227	140	134	113	107	137	114	177	301	237

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.02	-0.02	-0.02	-0.03	-0.02	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.02
2040 RND (Min)	-0.02	-0.02	-0.02	-0.01	-0.02	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.01	-0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

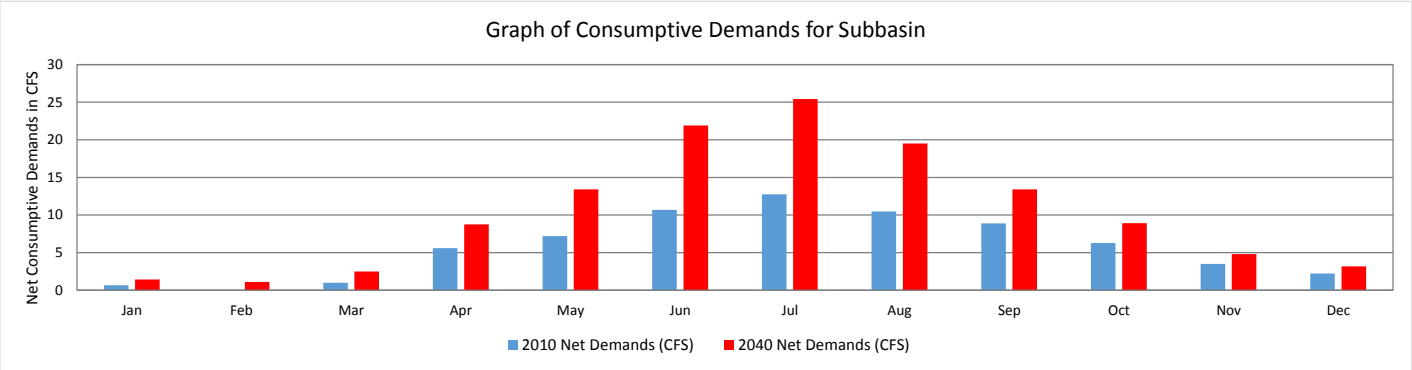
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.01	-0.01	0.00	-0.01	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
2040 RND (Avg)	-0.01	-0.01	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

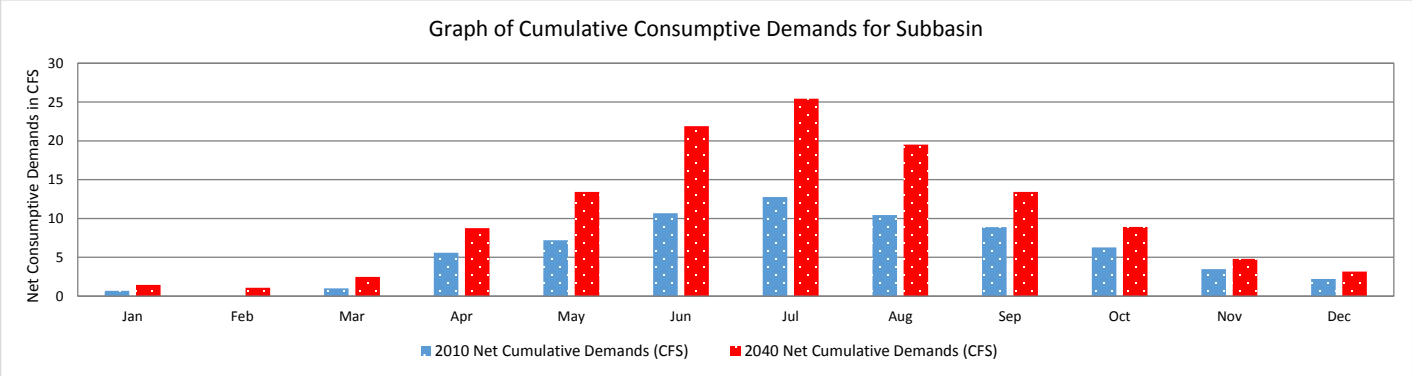
Subbasin Flows and Consumptive Demands

Subbasin #: 03150105 Name: Upper Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,588 square miles

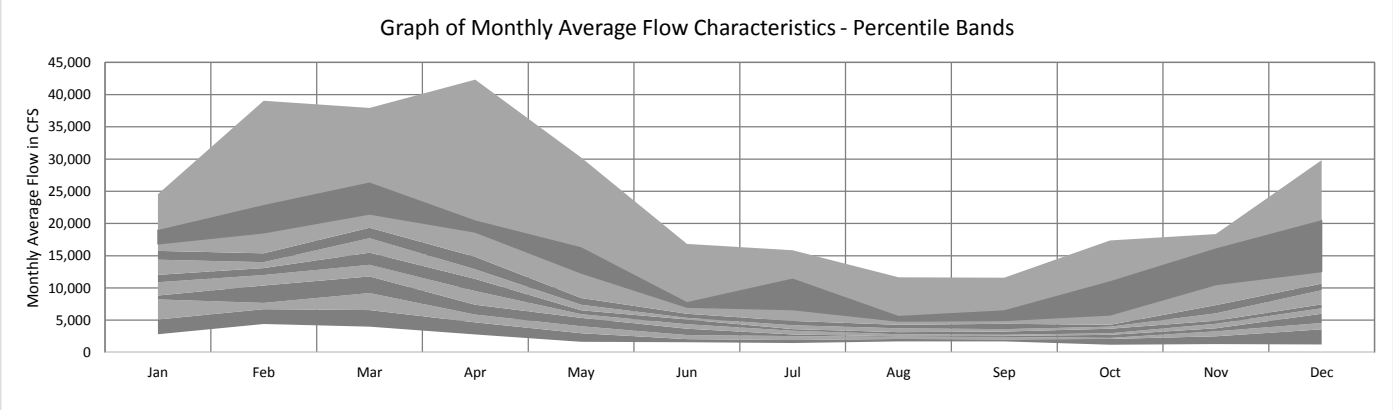
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	0.67	0.03	1.00	5.60	7.20	10.68	12.76	10.46	8.89	6.27	3.49	2.21	5.77
2040 Net Demands (CFS)	1.43	1.09	2.48	8.76	13.42	21.90	25.42	19.52	13.42	8.91	4.80	3.17	10.36



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.67	0.03	1.00	5.60	7.20	10.68	12.76	10.46	8.89	6.27	3.49	2.21	5.77
2040 Net Cumulative Demands (CFS)	1.43	1.09	2.48	8.76	13.42	21.90	25.42	19.52	13.42	8.91	4.80	3.17	10.36



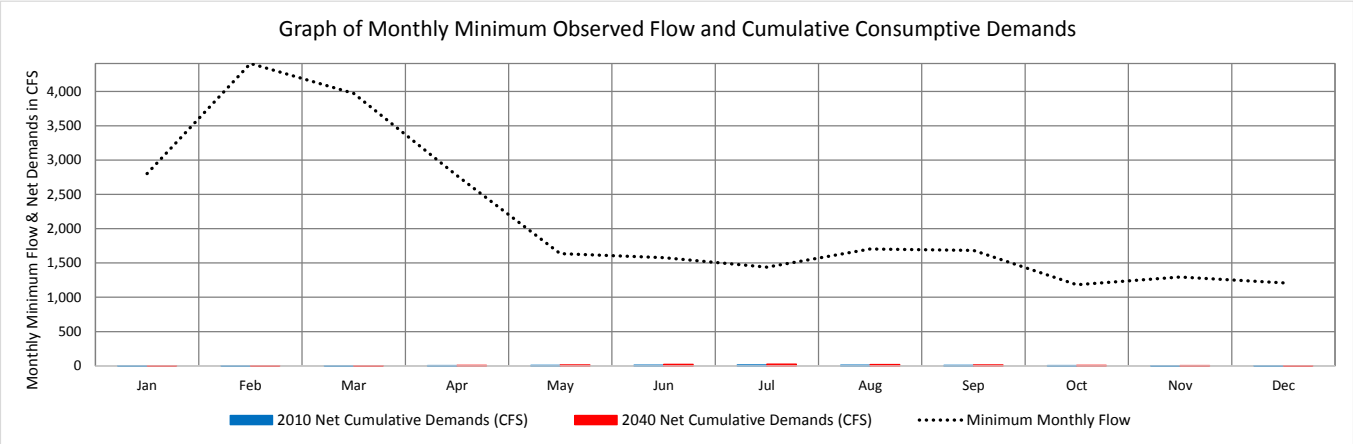
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845	8,602
Median (CFS)	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439	8,504
10th Percentile (CFS)	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572	4,854
Minimum (CFS)	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211	2,819

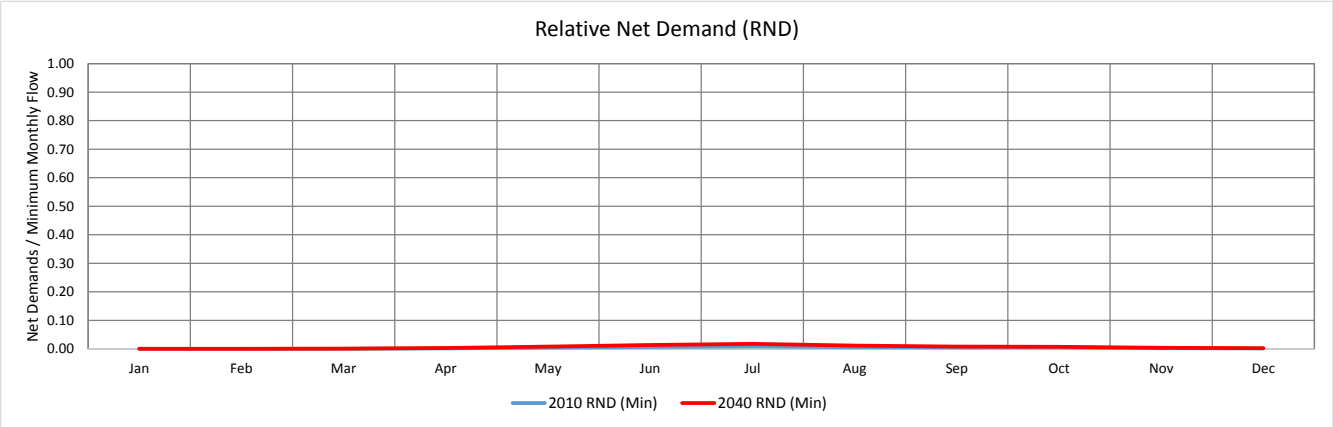
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150105 Name: Upper Coosa River Subbasin

Drainage Area: 5,588 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.67	0.03	1.00	5.60	7.20	10.68	12.76	10.46	8.89	6.27	3.49	2.21	5.77
2040 Net Cumulative Demands (CFS)	1.43	1.09	2.48	8.76	13.42	21.90	25.42	19.52	13.42	8.91	4.80	3.17	10.36

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845	8,602
Median (CFS)	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439	8,504
10th Percentile (CFS)	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572	4,854
Minimum (CFS)	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211	2,819

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

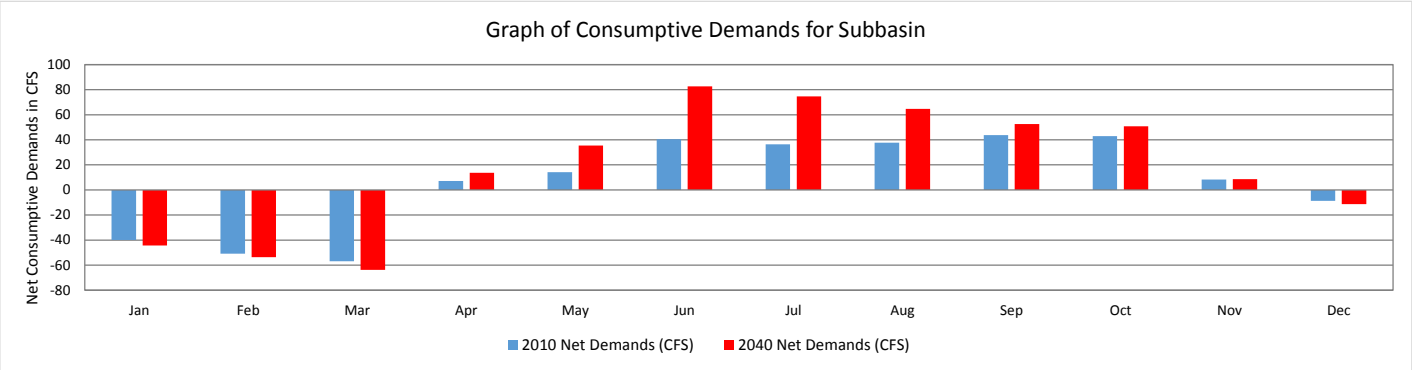
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

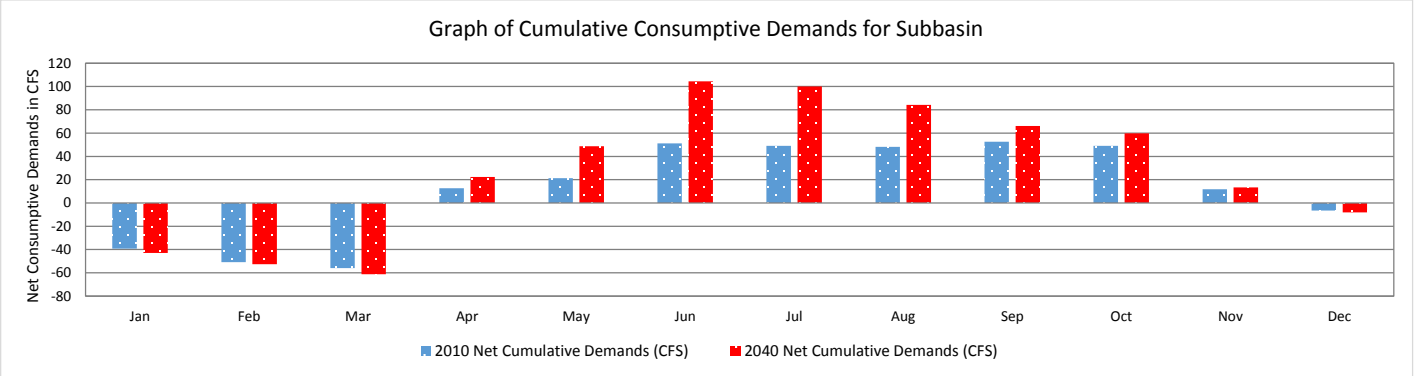
Subbasin Flows and Consumptive Demands

Subbasin #: 03150106 Name: Middle Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,392 square miles

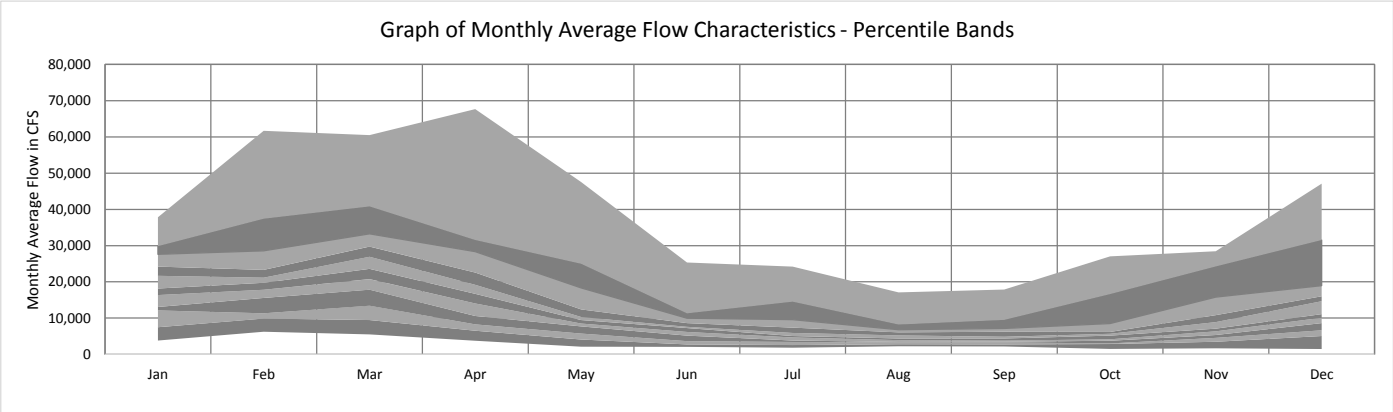
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-39.83	-50.83	-56.97	7.10	14.14	40.49	36.38	37.76	43.68	42.89	8.29	-8.64	6.21
2040 Net Demands (CFS)	-44.27	-53.64	-63.76	13.64	35.37	82.62	74.63	64.75	52.66	50.83	8.65	-11.32	17.51



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-39.16	-50.80	-55.97	12.71	21.34	51.17	49.13	48.22	52.56	49.16	11.78	-6.43	11.98
2040 Net Cumulative Demands (CFS)	-42.84	-52.55	-61.28	22.40	48.79	104.52	100.06	84.27	66.08	59.74	13.45	-8.16	27.87



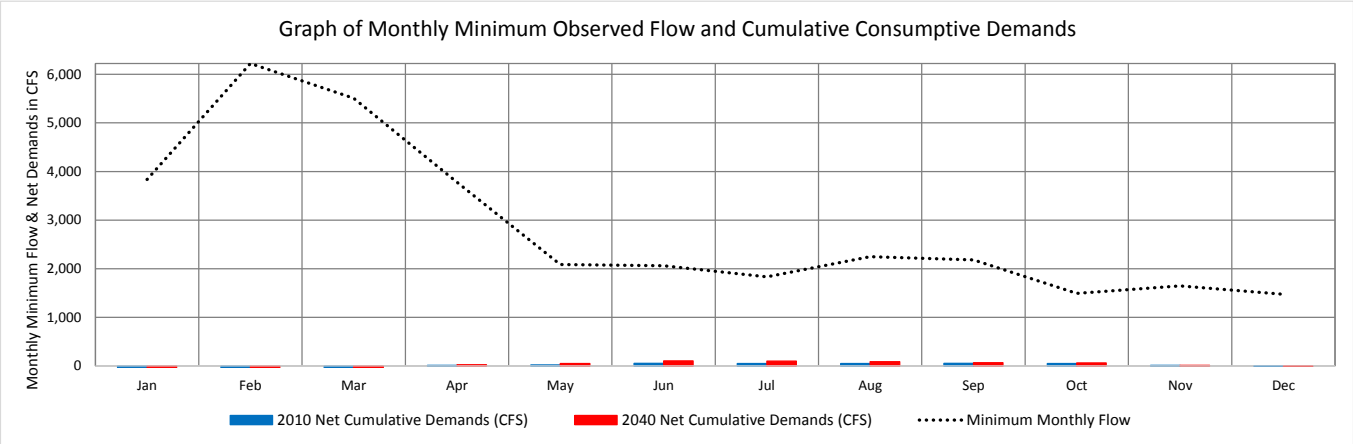
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859	12,878
Median (CFS)	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073	12,708
10th Percentile (CFS)	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038	7,071
Minimum (CFS)	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474	3,911

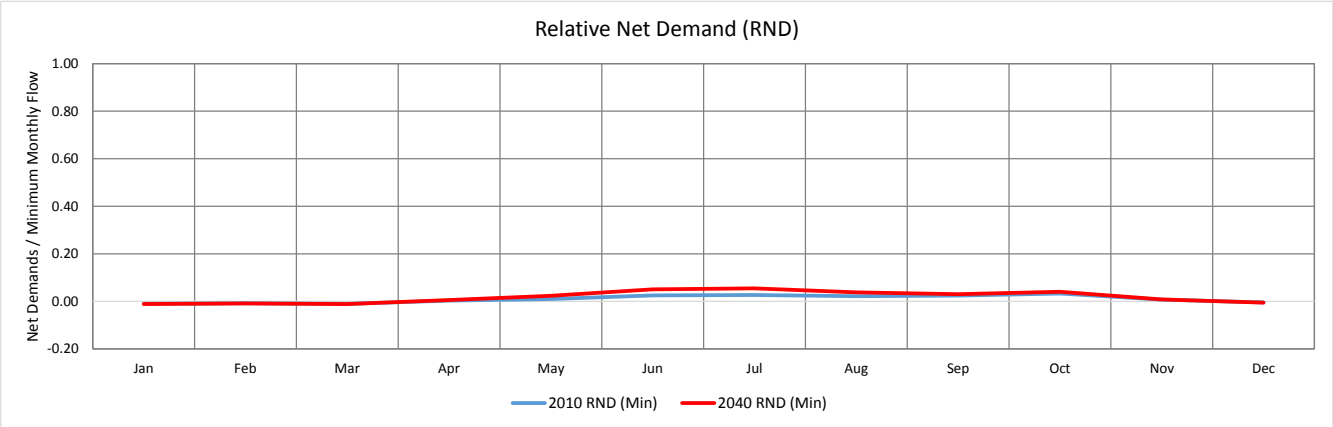
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150106 Name: Middle Coosa River Subbasin

Drainage Area: 8,392 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-39.16	-50.80	-55.97	12.71	21.34	51.17	49.13	48.22	52.56	49.16	11.78	-6.43	11.98
2040 Net Cumulative Demands (CFS)	-42.84	-52.55	-61.28	22.40	48.79	104.52	100.06	84.27	66.08	59.74	13.45	-8.16	27.87

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859	12,878
Median (CFS)	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073	12,708
10th Percentile (CFS)	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038	7,071
Minimum (CFS)	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474	3,911

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	-0.01	-0.01	0.00	0.01	0.02	0.03	0.02	0.02	0.03	0.01	0.00	0.00
2040 RND (Min)	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.05	0.04	0.03	0.04	0.01	-0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

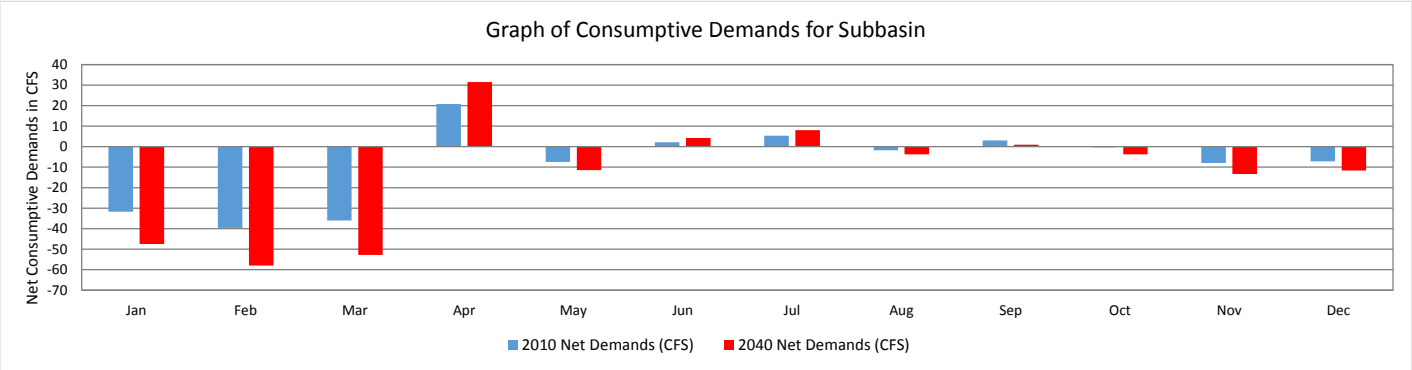
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

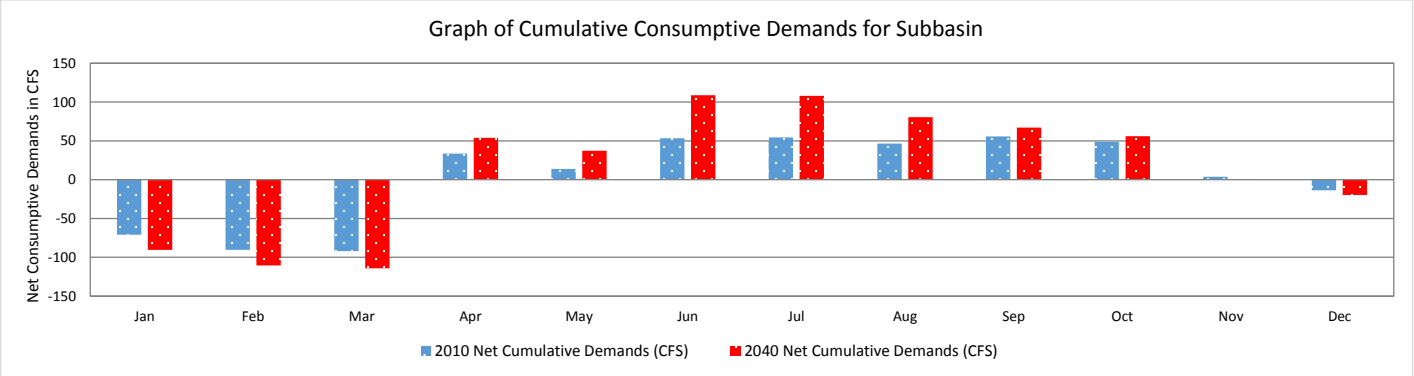
Subbasin Flows and Consumptive Demands

Subbasin #: 03150107 Name: Lower Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 10,102 square miles

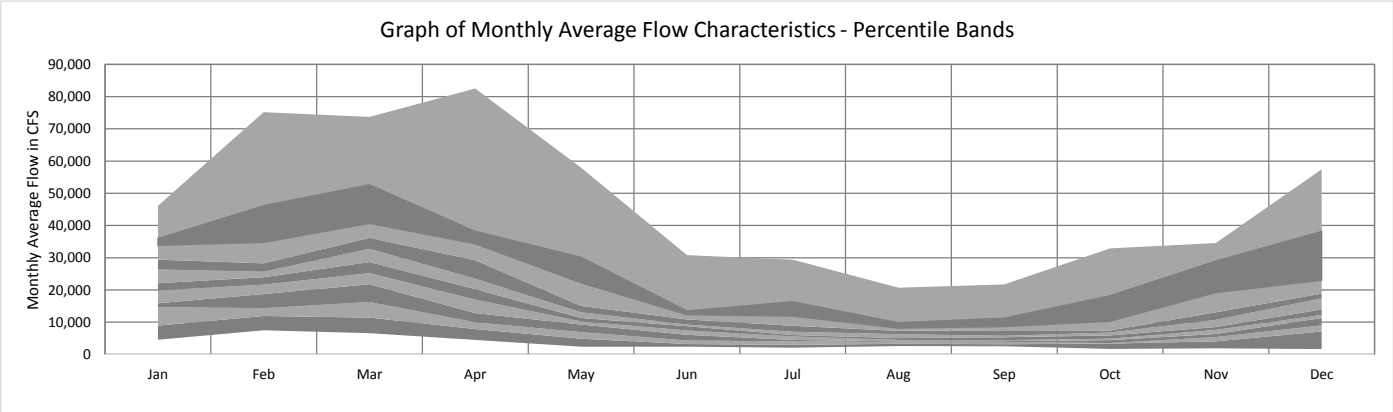
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-31.69	-39.58	-36.02	20.76	-7.50	2.15	5.31	-1.74	3.06	-0.33	-7.93	-7.21	-8.39
2040 Net Demands (CFS)	-47.48	-57.97	-52.77	31.49	-11.45	4.20	8.04	-3.74	0.95	-3.80	-13.34	-11.64	-13.13



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-70.85	-90.38	-91.99	33.47	13.84	53.32	54.44	46.48	55.63	48.83	3.85	-13.64	3.58
2040 Net Cumulative Demands (CFS)	-90.31	-110.52	-114.05	53.89	37.33	108.72	108.10	80.52	67.02	55.94	0.12	-19.79	14.75



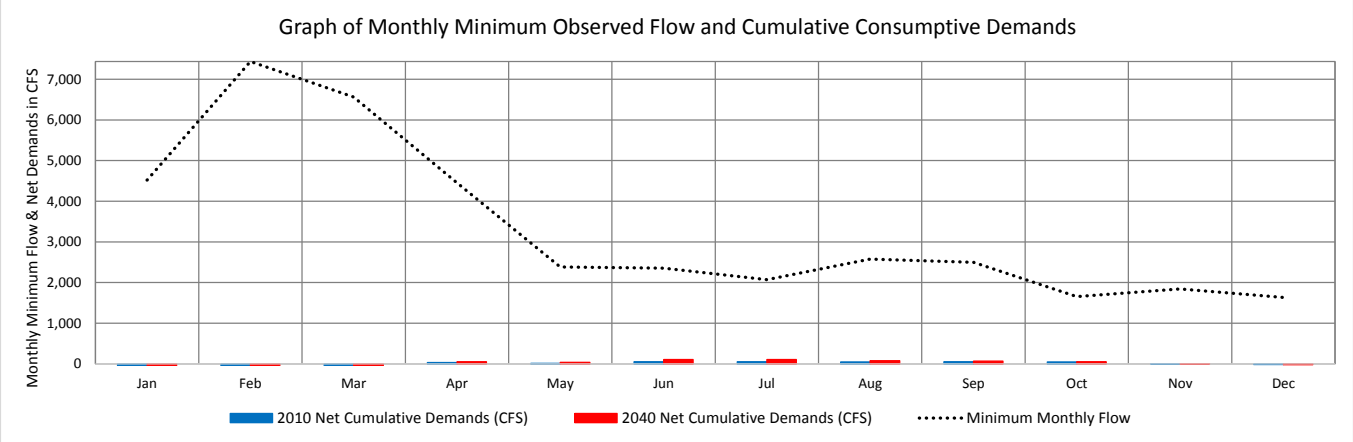
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221	15,630
Median (CFS)	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975	15,362
10th Percentile (CFS)	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090	8,473
Minimum (CFS)	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634	4,612

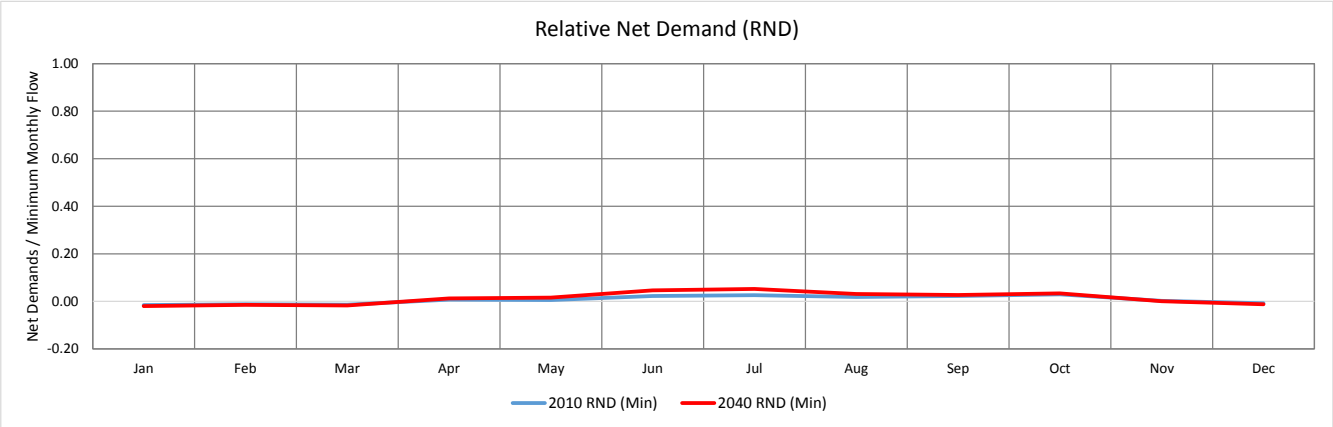
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150107 Name: Lower Coosa River Subbasin

Drainage Area: 10,102 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-70.85	-90.38	-91.99	33.47	13.84	53.32	54.44	46.48	55.63	48.83	3.85	-13.64	3.58
2040 Net Cumulative Demands (CFS)	-90.31	-110.52	-114.05	53.89	37.33	108.72	108.10	80.52	67.02	55.94	0.12	-19.79	14.75

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221	15,630
Median (CFS)	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975	15,362
10th Percentile (CFS)	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090	8,473
Minimum (CFS)	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634	4,612

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.01	-0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.03	0.00	-0.01	0.00
2040 RND (Min)	-0.02	-0.01	-0.02	0.01	0.02	0.05	0.05	0.03	0.03	0.03	0.00	-0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

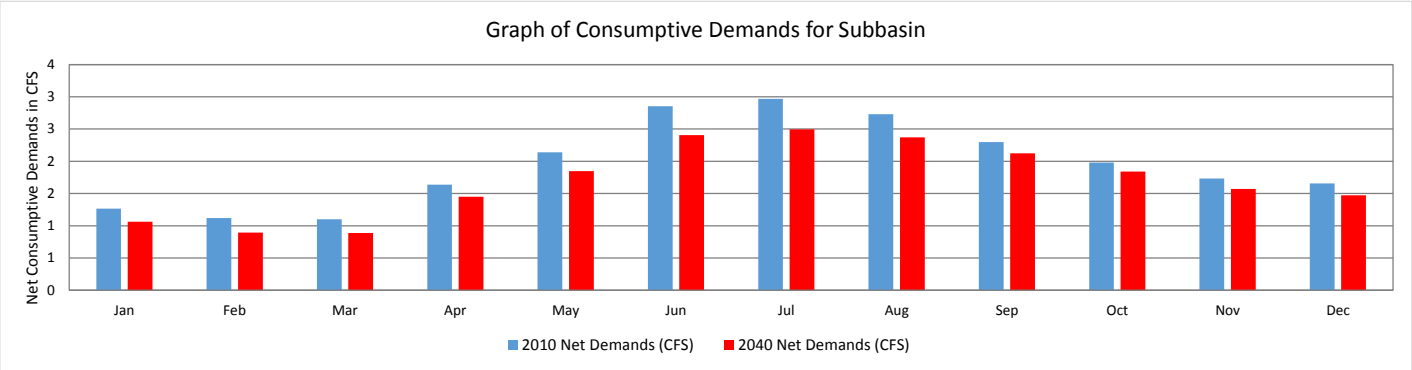
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

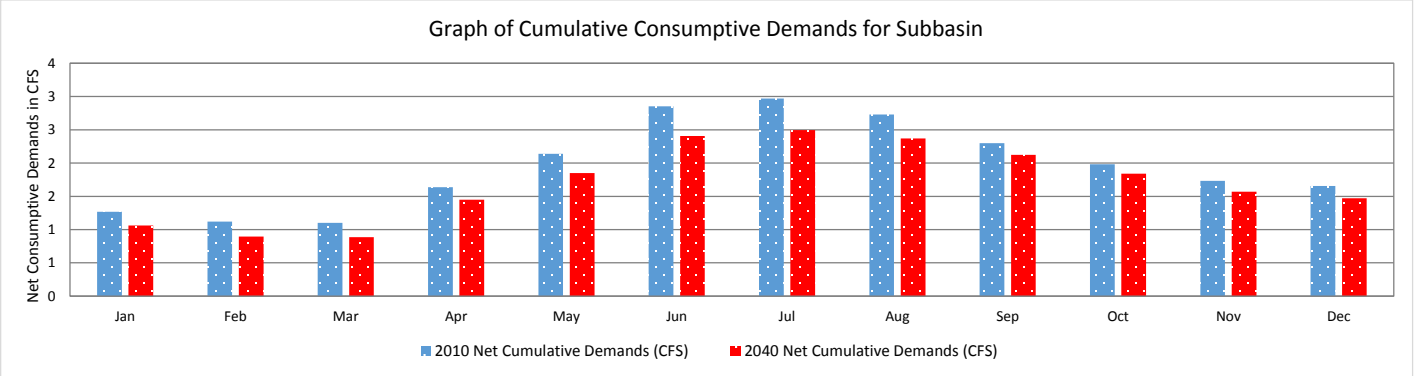
Subbasin Flows and Consumptive Demands

Subbasin #: 03150108 Name: Upper Tallapoosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,454 square miles

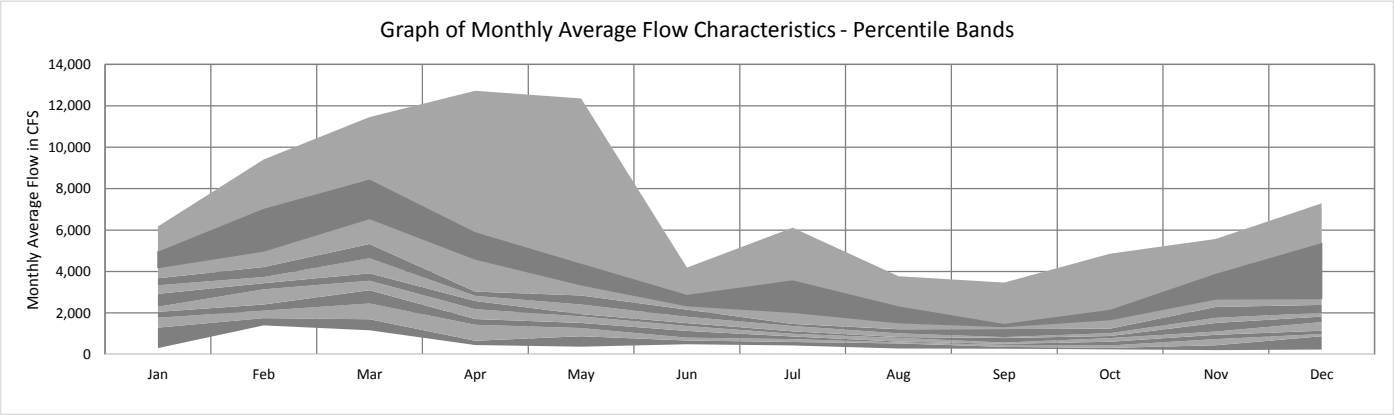
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	1.27	1.12	1.10	1.64	2.14	2.85	2.97	2.73	2.30	1.98	1.73	1.66	1.96
2040 Net Demands (CFS)	1.06	0.89	0.89	1.45	1.85	2.41	2.50	2.37	2.12	1.84	1.57	1.47	1.70



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	1.27	1.12	1.10	1.64	2.14	2.85	2.97	2.73	2.30	1.98	1.73	1.66	1.96
2040 Net Cumulative Demands (CFS)	1.06	0.89	0.89	1.45	1.85	2.41	2.50	2.37	2.12	1.84	1.57	1.47	1.70



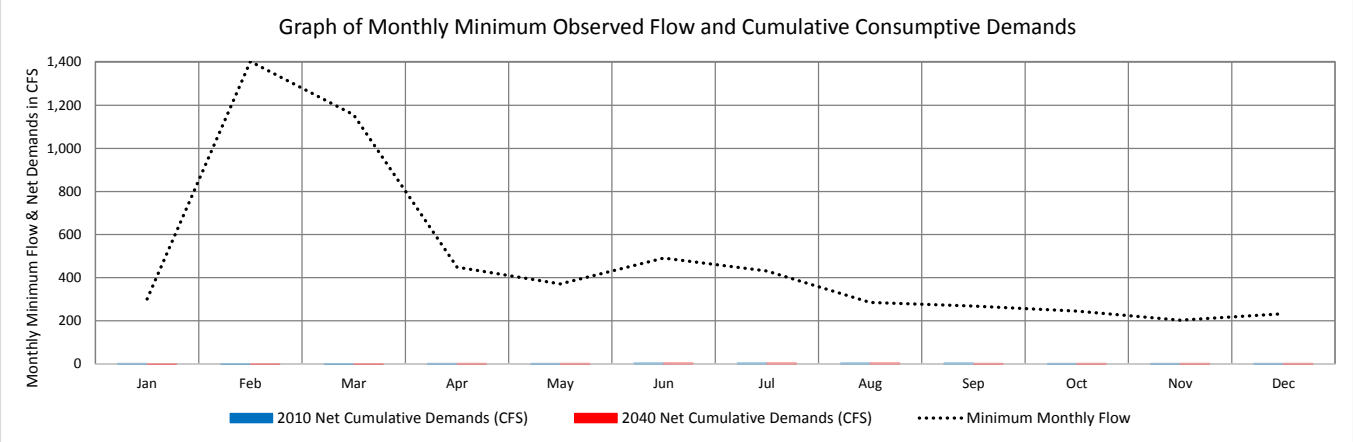
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247	2,300
Median (CFS)	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825	2,408
10th Percentile (CFS)	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870	1,138
Minimum (CFS)	301	1,403	1,156	449	371	491	431	285	268	245	203	233	719

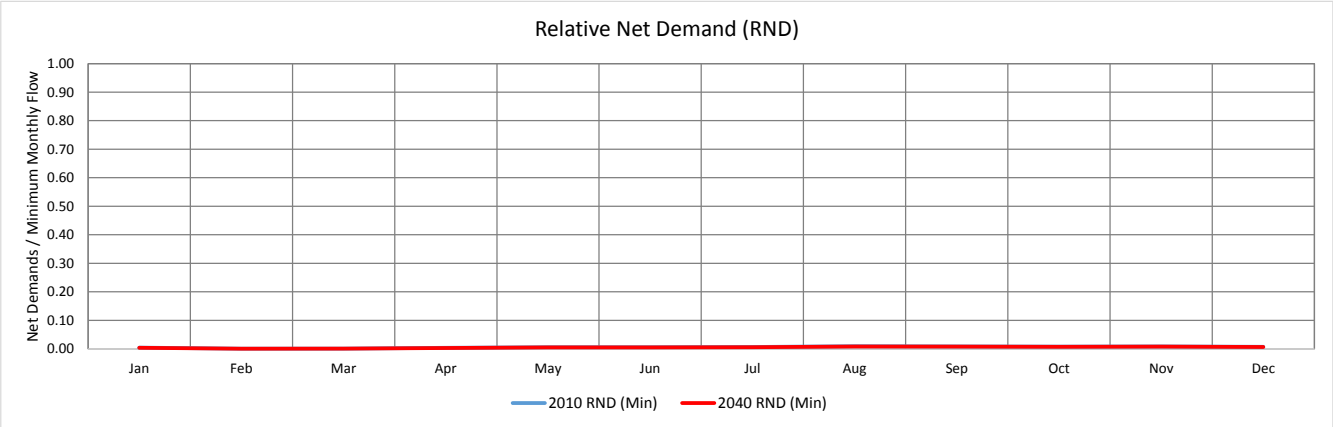
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150108 Name: Upper Tallapoosa River Subbasin

Drainage Area: 1,454 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	1.27	1.12	1.10	1.64	2.14	2.85	2.97	2.73	2.30	1.98	1.73	1.66	1.96
2040 Net Cumulative Demands (CFS)	1.06	0.89	0.89	1.45	1.85	2.41	2.50	2.37	2.12	1.84	1.57	1.47	1.70

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247	2,300
Median (CFS)	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825	2,408
10th Percentile (CFS)	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870	1,138
Minimum (CFS)	301	1,403	1,156	449	371	491	431	285	268	245	203	233	719

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
2040 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

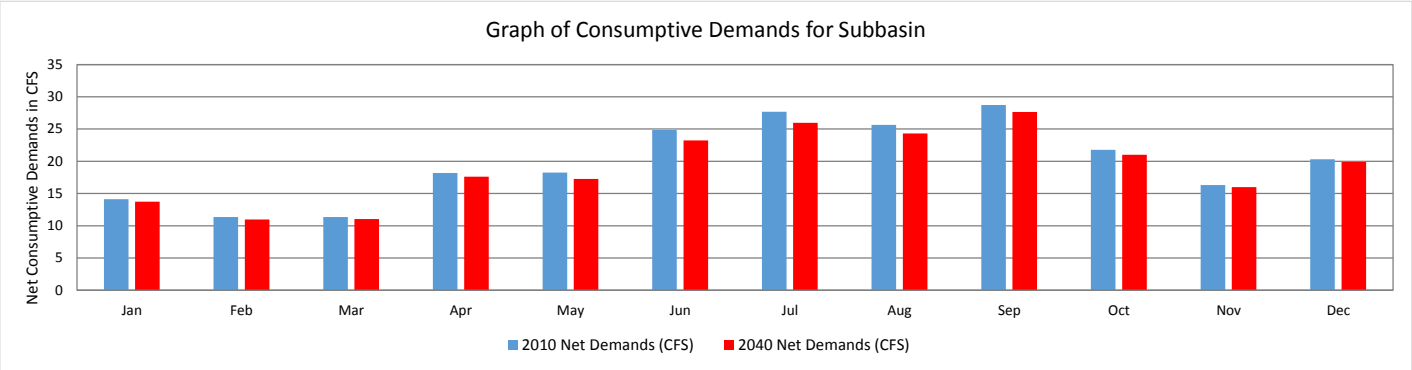
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

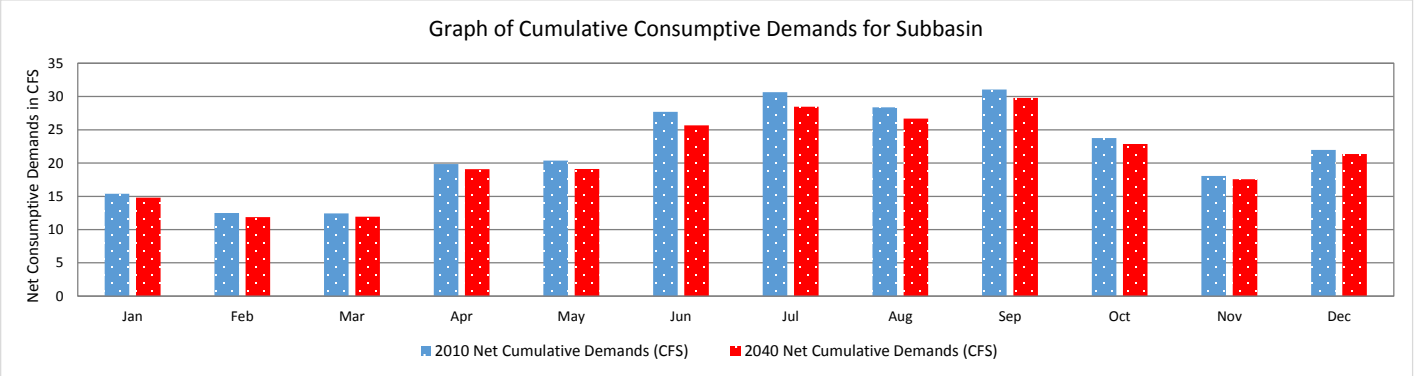
Subbasin Flows and Consumptive Demands

Subbasin #: 03150109 Name: Middle Tallapoosa Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,984 square miles

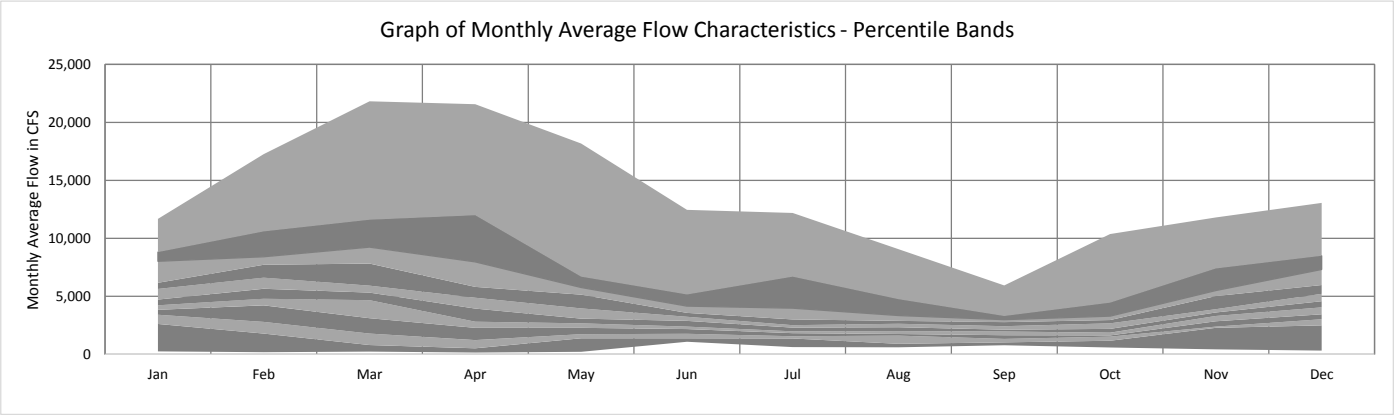
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	14.13	11.37	11.34	18.20	18.24	24.86	27.68	25.64	28.74	21.77	16.32	20.32	19.88
2040 Net Demands (CFS)	13.73	10.98	11.05	17.63	17.26	23.24	25.96	24.31	27.66	21.02	15.99	19.89	19.06



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	15.40	12.49	12.44	19.83	20.38	27.71	30.65	28.36	31.04	23.75	18.06	21.98	21.84
2040 Net Cumulative Demands (CFS)	14.80	11.88	11.93	19.08	19.10	25.65	28.45	26.68	29.78	22.86	17.56	21.36	20.76



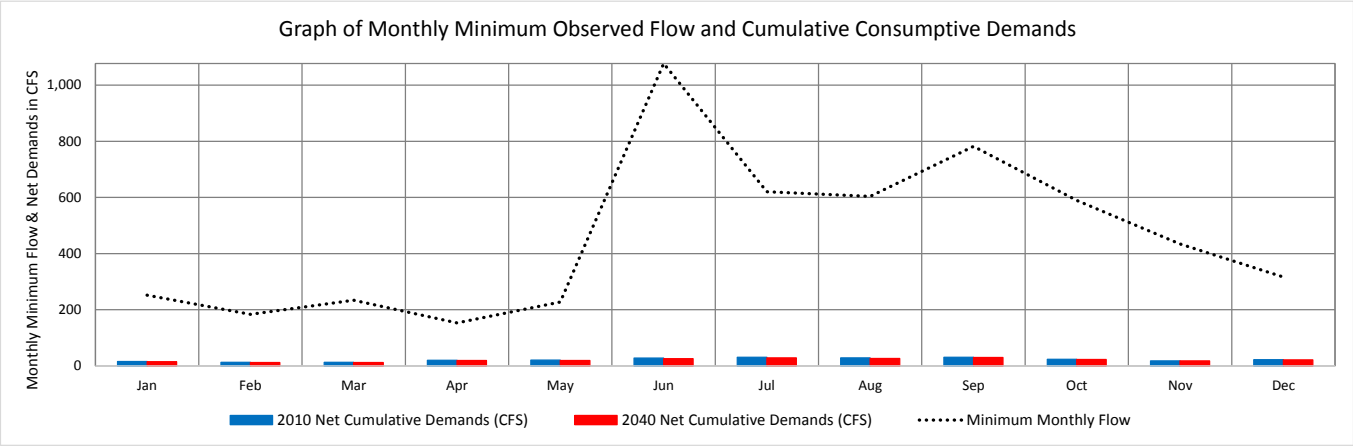
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207	4,173
Median (CFS)	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589	4,493
10th Percentile (CFS)	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493	1,995
Minimum (CFS)	252	184	234	153	228	1,077	620	604	781	589	434	316	1,333

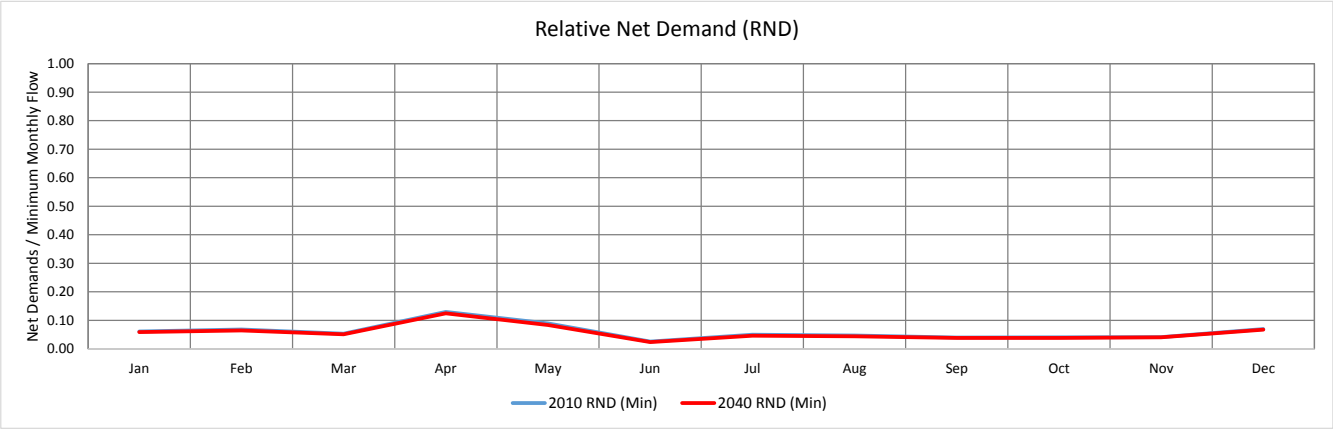
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150109 Name: Middle Tallapoosa Subbasin

Drainage Area: 2,984 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	15.40	12.49	12.44	19.83	20.38	27.71	30.65	28.36	31.04	23.75	18.06	21.98	21.84
2040 Net Cumulative Demands (CFS)	14.80	11.88	11.93	19.08	19.10	25.65	28.45	26.68	29.78	22.86	17.56	21.36	20.76

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207	4,173
Median (CFS)	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589	4,493
10th Percentile (CFS)	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493	1,995
Minimum (CFS)	252	184	234	153	228	1,077	620	604	781	589	434	316	1,333

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.06	0.07	0.05	0.13	0.09	0.03	0.05	0.05	0.04	0.04	0.04	0.07	0.02
2040 RND (Min)	0.06	0.06	0.05	0.12	0.08	0.02	0.05	0.04	0.04	0.04	0.04	0.07	0.02

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

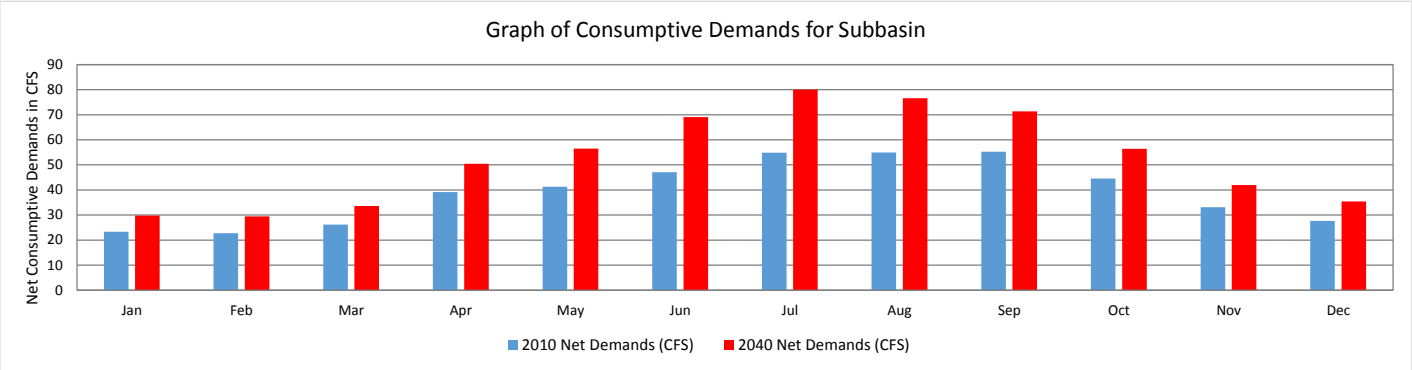
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

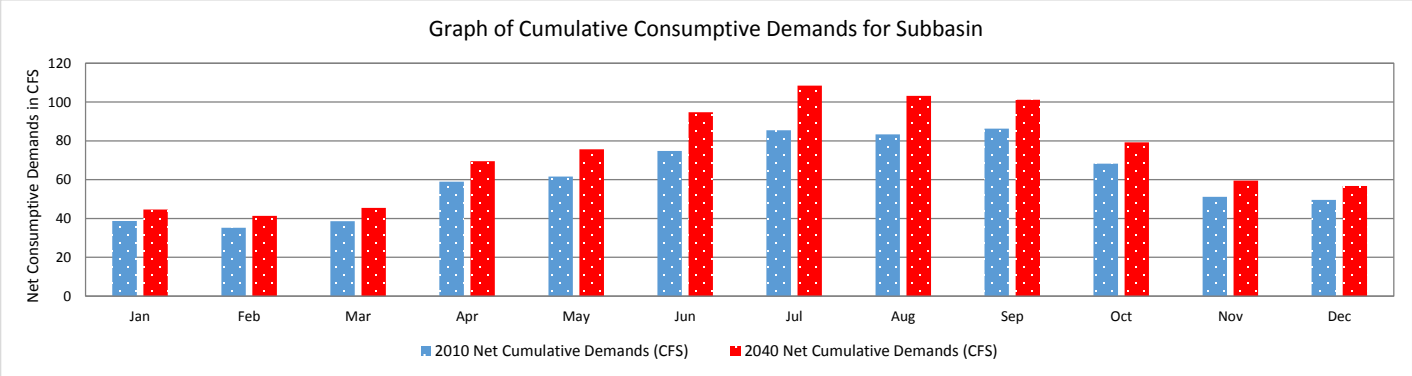
Subbasin Flows and Consumptive Demands

Subbasin #: 03150110 Name: Lower Tallapoosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,646 square miles

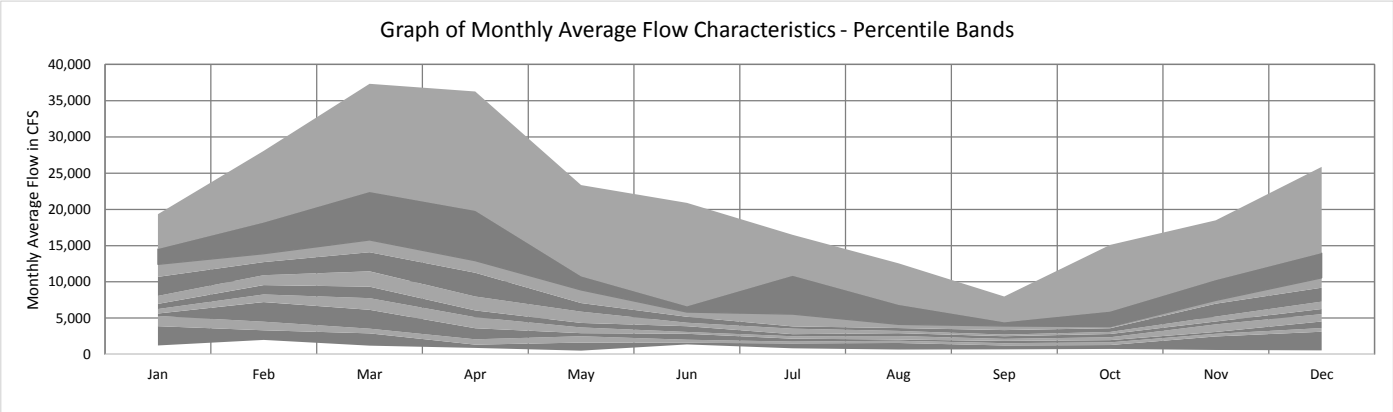
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	23.32	22.76	26.14	39.16	41.26	47.05	54.81	54.96	55.24	44.54	33.13	27.60	39.17
2040 Net Demands (CFS)	29.79	29.44	33.58	50.46	56.51	69.11	80.04	76.55	71.38	56.41	41.90	35.39	52.55



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	38.72	35.25	38.58	58.99	61.64	74.76	85.46	83.33	86.29	68.28	51.19	49.58	61.01
2040 Net Cumulative Demands (CFS)	44.59	41.32	45.51	69.54	75.62	94.76	108.50	103.23	101.16	79.27	59.47	56.75	73.31



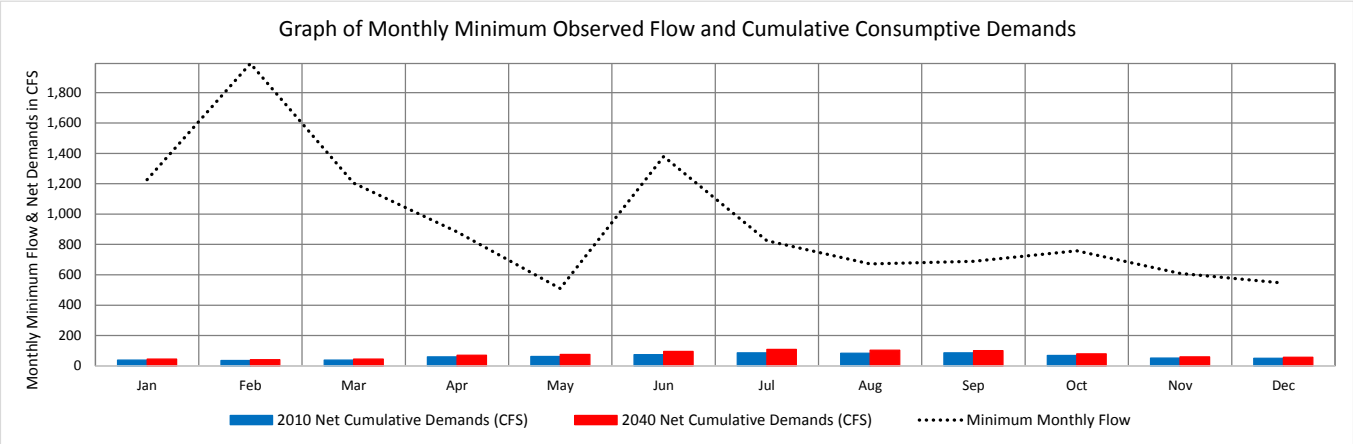
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683	6,314
Median (CFS)	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242	6,707
10th Percentile (CFS)	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109	2,814
Minimum (CFS)	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546	2,056

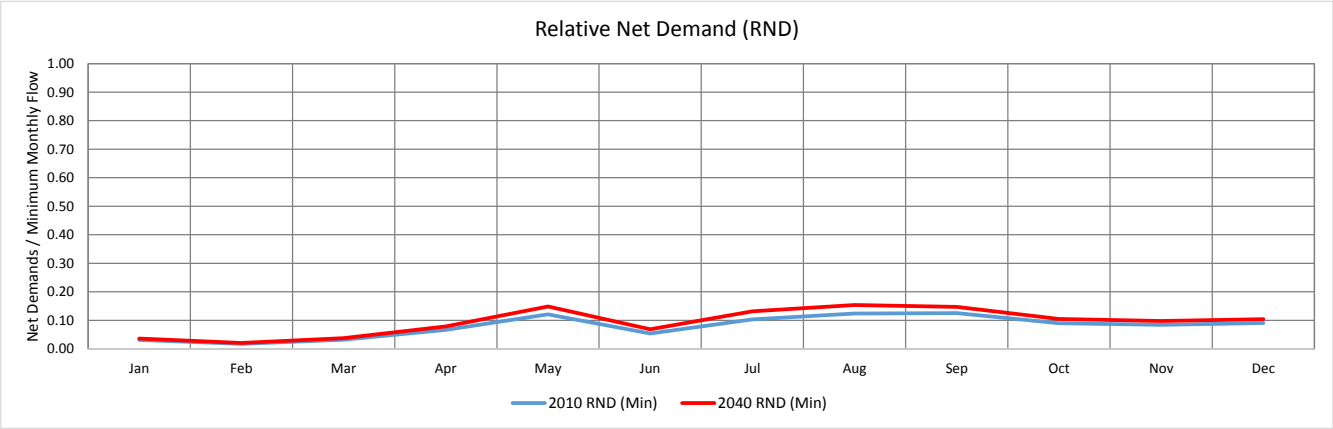
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150110 Name: Lower Tallapoosa River Subbasin

Drainage Area: 4,646 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	38.72	35.25	38.58	58.99	61.64	74.76	85.46	83.33	86.29	68.28	51.19	49.58	61.01
2040 Net Cumulative Demands (CFS)	44.59	41.32	45.51	69.54	75.62	94.76	108.50	103.23	101.16	79.27	59.47	56.75	73.31

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683	6,314
Median (CFS)	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242	6,707
10th Percentile (CFS)	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109	2,814
Minimum (CFS)	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546	2,056

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.03	0.02	0.03	0.07	0.12	0.05	0.10	0.12	0.13	0.09	0.08	0.09	0.03
2040 RND (Min)	0.04	0.02	0.04	0.08	0.15	0.07	0.13	0.15	0.15	0.10	0.10	0.10	0.04

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

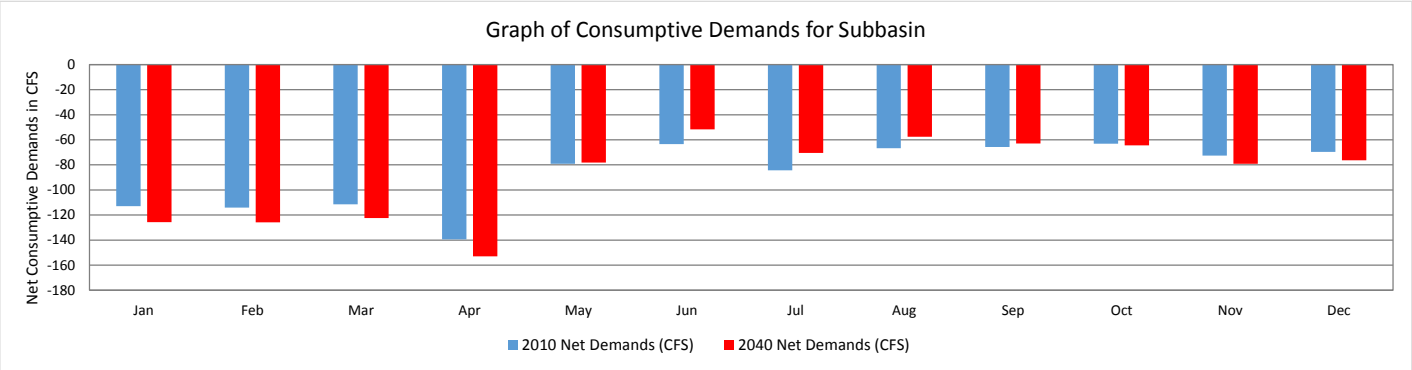
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.01	0.01	0.01
2040 RND (Avg)	0.01	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.02	0.01	0.01	0.01

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

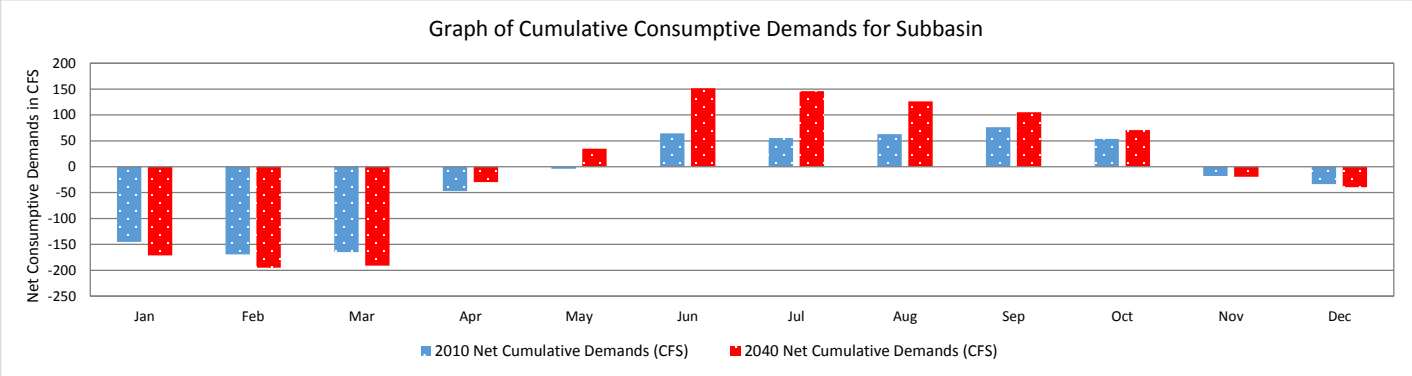
Subbasin Flows and Consumptive Demands

Subbasin #: 03150201 Name: Upper Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 17,095 square miles

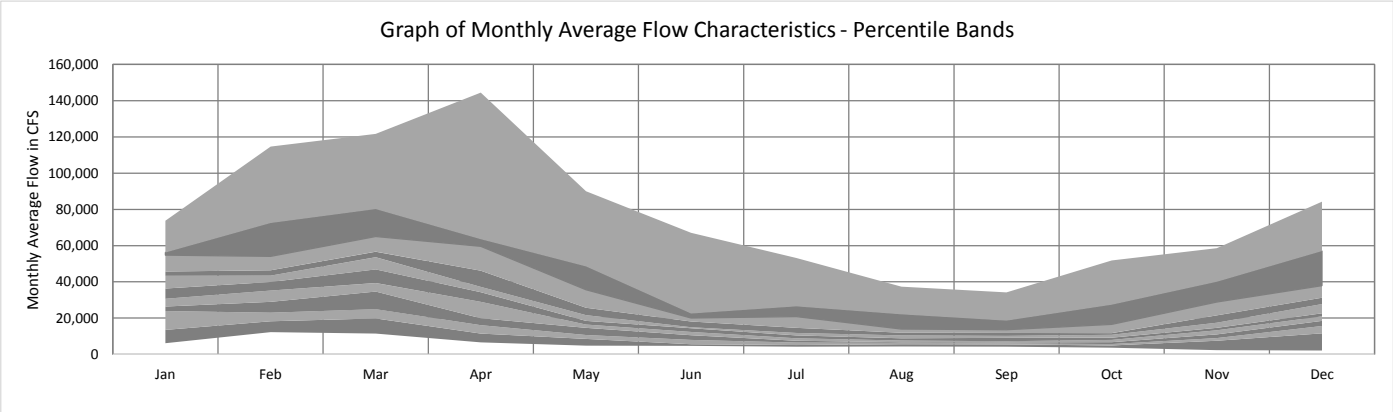
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-113.01	-114.05	-111.45	-139.50	-79.20	-63.47	-84.40	-66.77	-65.66	-63.11	-72.67	-69.62	-86.91
2040 Net Demands (CFS)	-125.74	-125.91	-122.50	-152.91	-78.08	-51.69	-70.40	-57.53	-62.87	-64.36	-79.08	-76.29	-88.95



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-145.15	-169.18	-164.86	-47.04	-3.71	64.61	55.50	63.04	76.25	54.00	-17.63	-33.68	-22.32
2040 Net Cumulative Demands (CFS)	-171.47	-195.11	-191.04	-29.48	34.87	151.79	146.20	126.22	105.31	70.85	-19.50	-39.33	-0.89



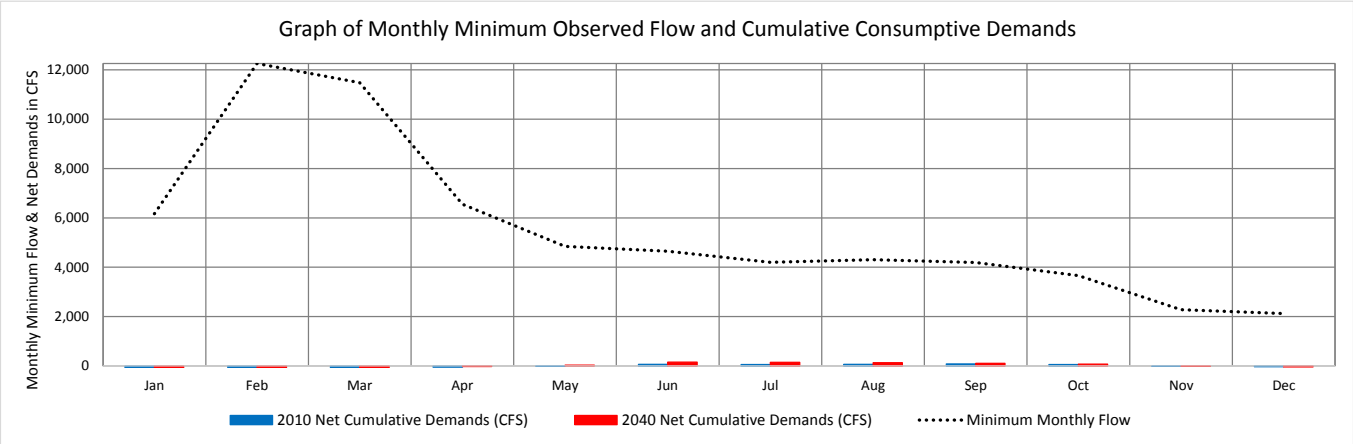
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917	25,401
Median (CFS)	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705	26,155
10th Percentile (CFS)	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605	13,461
Minimum (CFS)	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122	7,689

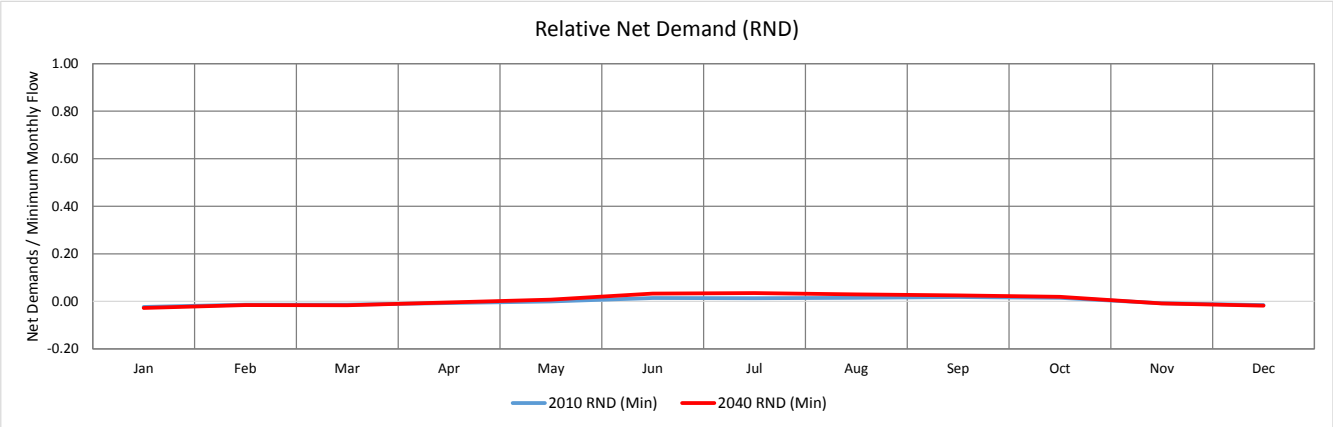
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150201 Name: Upper Alabama River Subbasin

Drainage Area: 17,095 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-145.15	-169.18	-164.86	-47.04	-3.71	64.61	55.50	63.04	76.25	54.00	-17.63	-33.68	-22.32
2040 Net Cumulative Demands (CFS)	-171.47	-195.11	-191.04	-29.48	34.87	151.79	146.20	126.22	105.31	70.85	-19.50	-39.33	-0.89

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917	25,401
Median (CFS)	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705	26,155
10th Percentile (CFS)	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605	13,461
Minimum (CFS)	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122	7,689

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02	0.01	-0.01	-0.02	0.00
2040 RND (Min)	-0.03	-0.02	-0.02	0.00	0.01	0.03	0.03	0.03	0.03	0.02	-0.01	-0.02	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

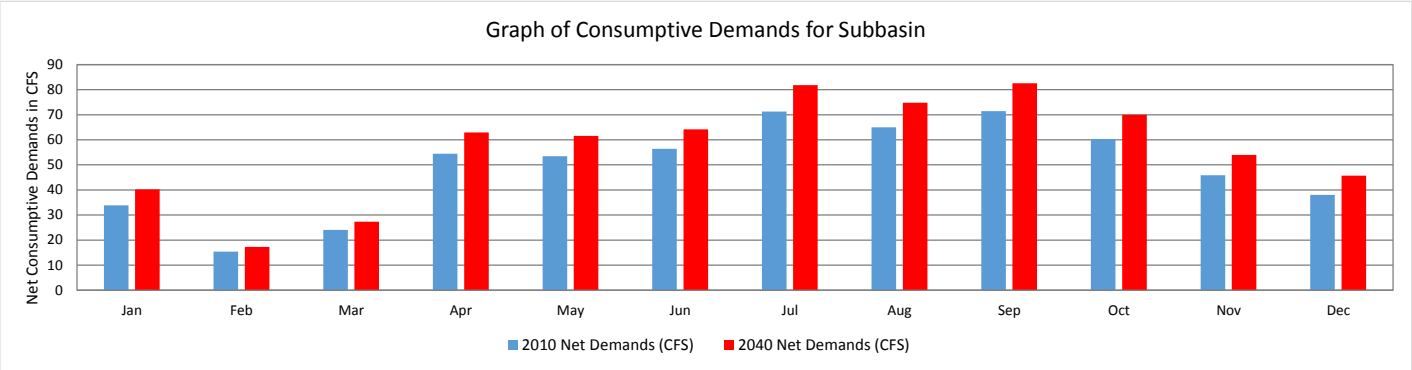
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

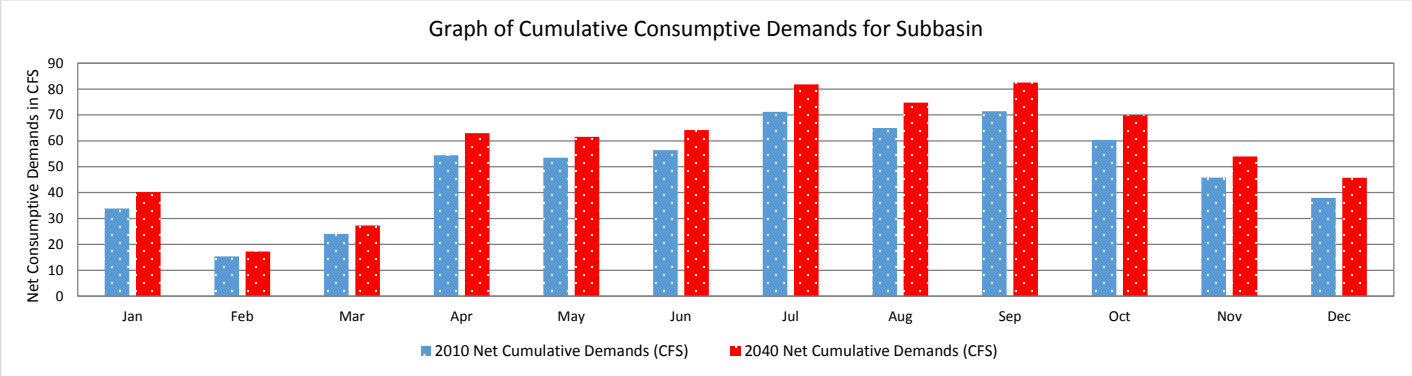
Subbasin Flows and Consumptive Demands

Subbasin #: 03150202 Name: Cahaba River Basin Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,766 square miles

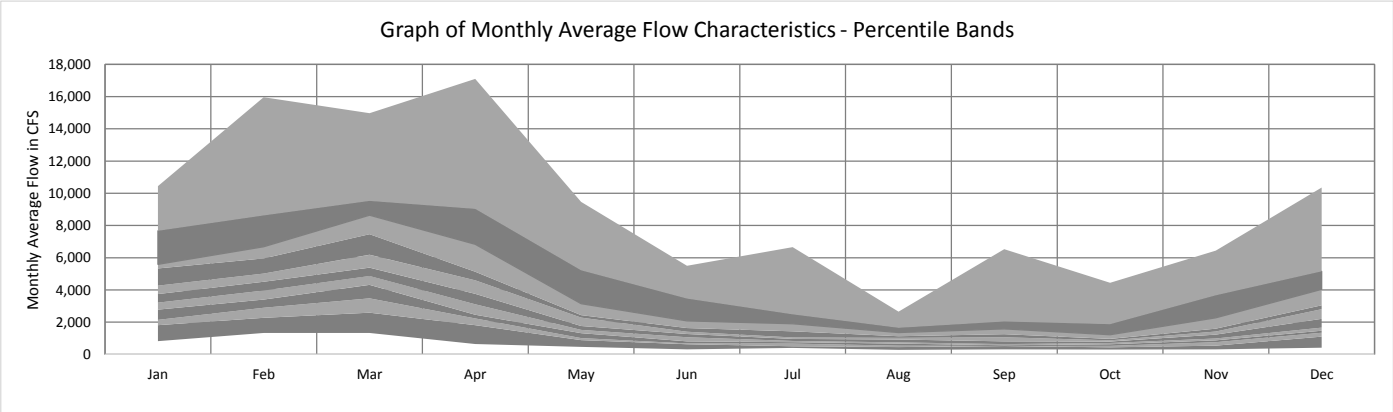
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	33.87	15.37	24.06	54.44	53.45	56.44	71.24	64.98	71.47	60.36	45.85	37.99	49.13
2040 Net Demands (CFS)	40.22	17.27	27.29	62.95	61.55	64.19	81.80	74.75	82.58	69.97	53.98	45.72	56.86



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	33.87	15.37	24.06	54.44	53.45	56.44	71.24	64.98	71.47	60.36	45.85	37.99	49.13
2040 Net Cumulative Demands (CFS)	40.22	17.27	27.29	62.95	61.55	64.19	81.80	74.75	82.58	69.97	53.98	45.72	56.86



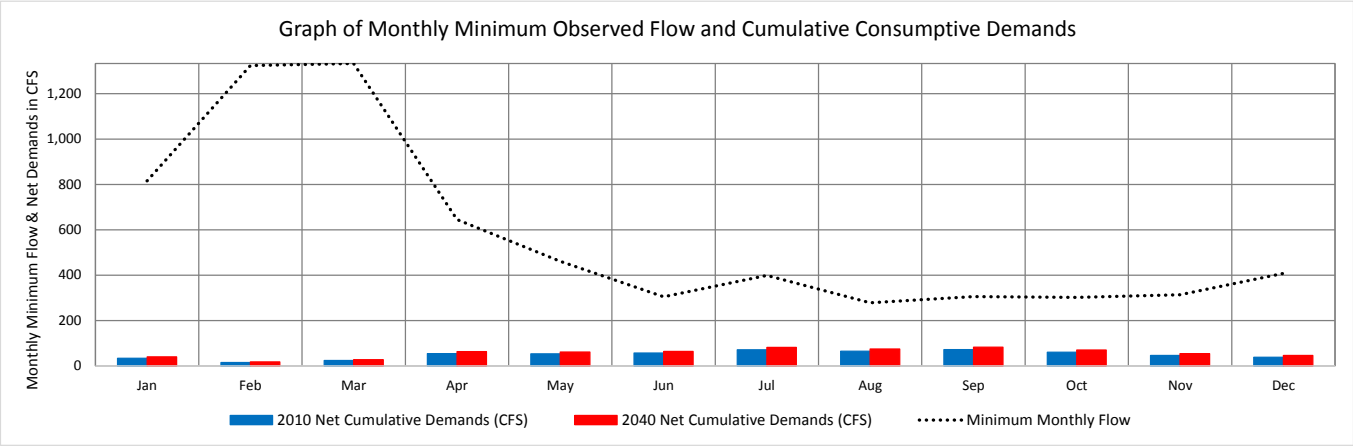
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807	2,763
Median (CFS)	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205	2,684
10th Percentile (CFS)	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104	1,581
Minimum (CFS)	816	1,324	1,333	645	461	304	399	278	305	302	313	408	895

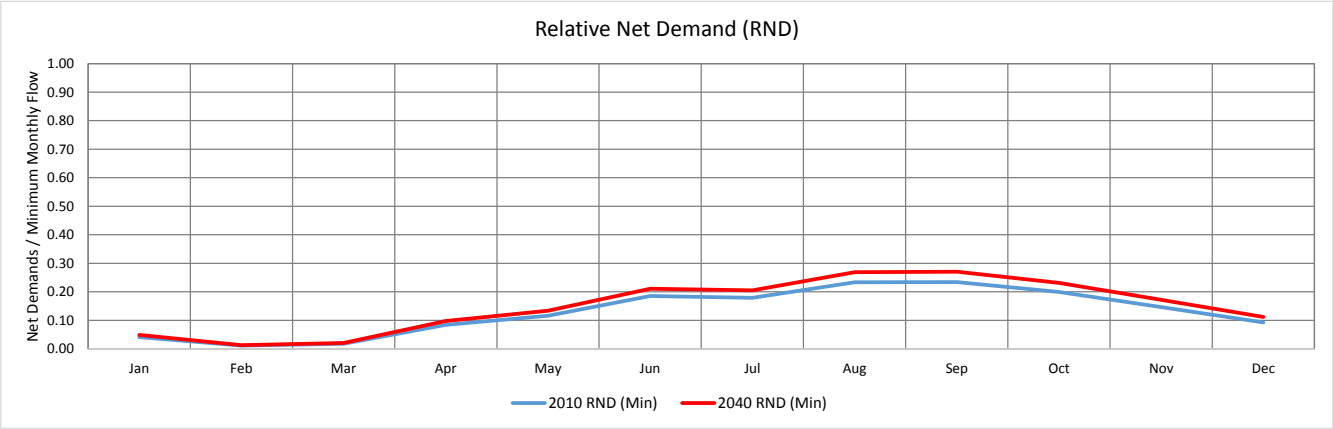
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150202 Name: Cahaba River Basin Subbasin

Drainage Area: 1,766 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	33.87	15.37	24.06	54.44	53.45	56.44	71.24	64.98	71.47	60.36	45.85	37.99	49.13
2040 Net Cumulative Demands (CFS)	40.22	17.27	27.29	62.95	61.55	64.19	81.80	74.75	82.58	69.97	53.98	45.72	56.86

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807	2,763
Median (CFS)	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205	2,684
10th Percentile (CFS)	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104	1,581
Minimum (CFS)	816	1,324	1,333	645	461	304	399	278	305	302	313	408	895

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.04	0.01	0.02	0.08	0.12	0.19	0.18	0.23	0.23	0.20	0.15	0.09	0.05
2040 RND (Min)	0.05	0.01	0.02	0.10	0.13	0.21	0.21	0.27	0.27	0.23	0.17	0.11	0.06

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

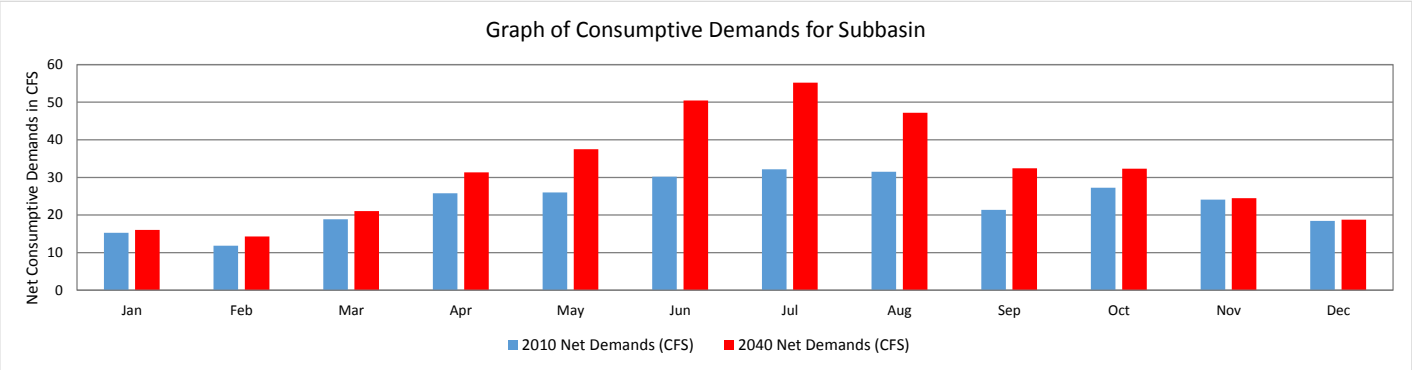
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.01	0.00	0.00	0.01	0.02	0.04	0.05	0.06	0.06	0.06	0.03	0.01	0.02
2040 RND (Avg)	0.01	0.00	0.00	0.01	0.02	0.04	0.06	0.07	0.07	0.07	0.03	0.02	0.02

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

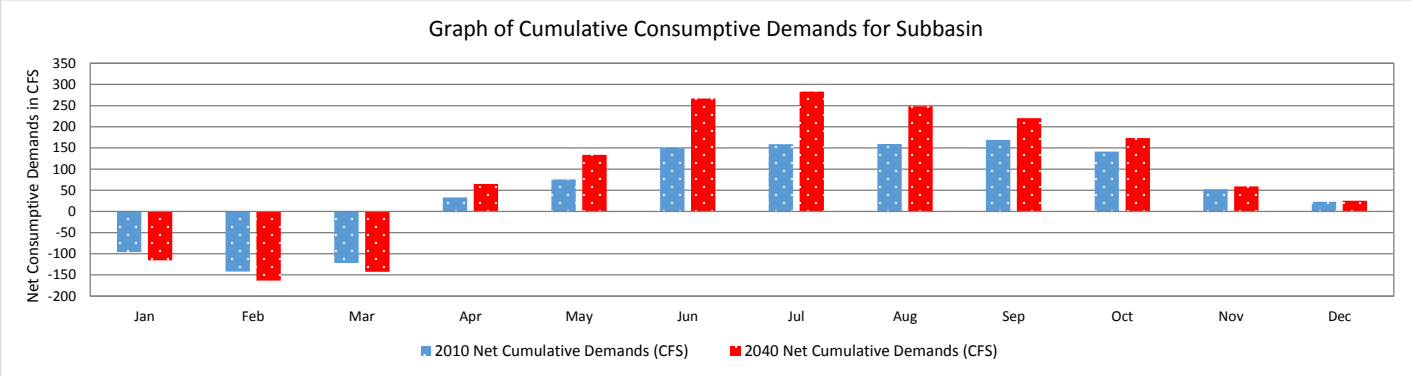
Subbasin Flows and Consumptive Demands

Subbasin #: 03150203 Name: Middle Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 21,140 square miles

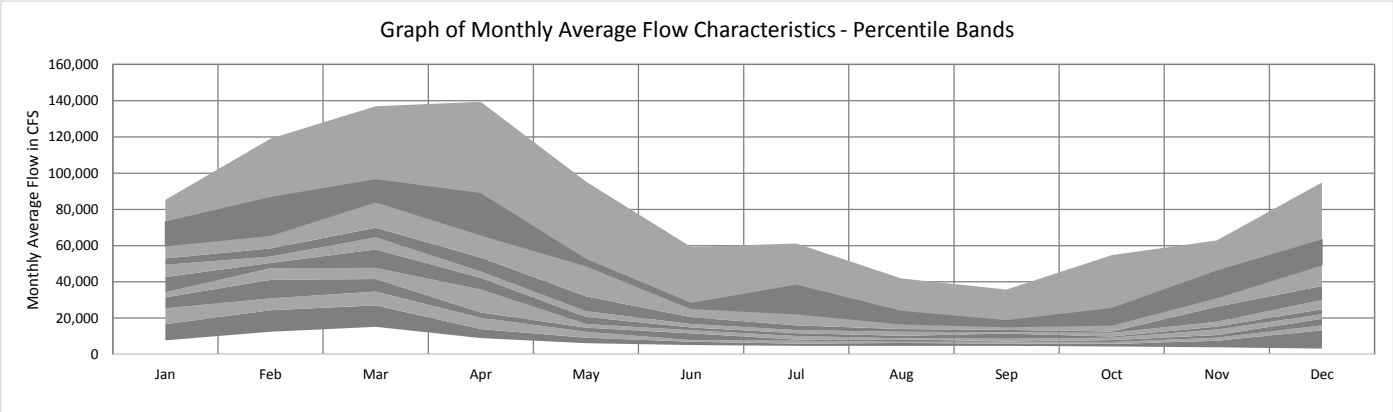
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	15.26	11.82	18.88	25.78	26.02	30.18	32.17	31.51	21.39	27.27	24.09	18.45	23.57
2040 Net Demands (CFS)	16.01	14.28	21.05	31.36	37.49	50.47	55.19	47.18	32.44	32.33	24.47	18.75	31.75



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-96.02	-142.00	-121.92	33.18	75.76	151.23	158.91	159.53	169.11	141.63	52.31	22.76	50.37
2040 Net Cumulative Demands (CFS)	-115.24	-163.55	-142.71	64.83	133.91	266.45	283.19	248.15	220.33	173.14	58.95	25.13	87.72



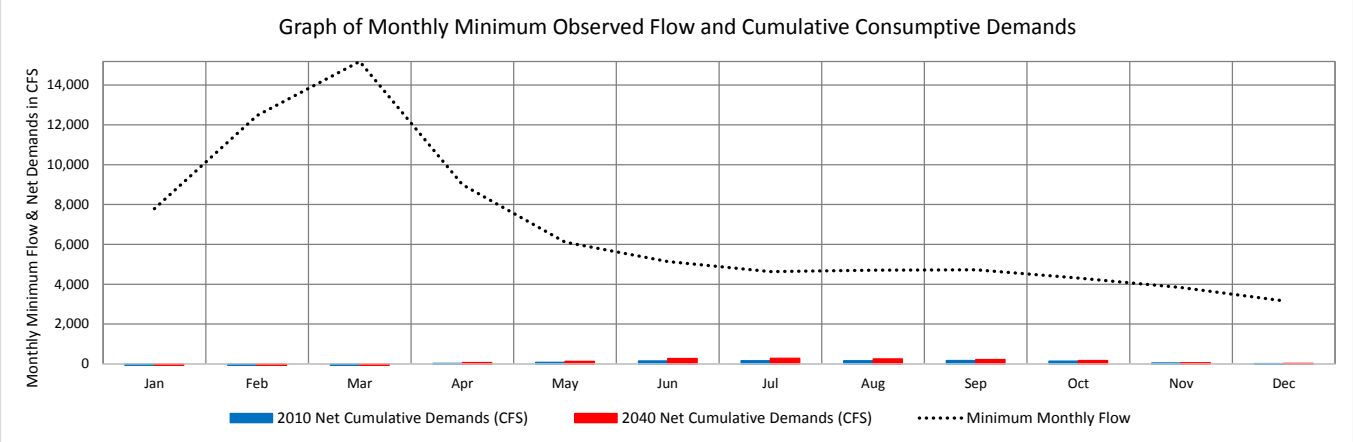
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351	29,768
Median (CFS)	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925	30,993
10th Percentile (CFS)	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217	16,476
Minimum (CFS)	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165	9,435

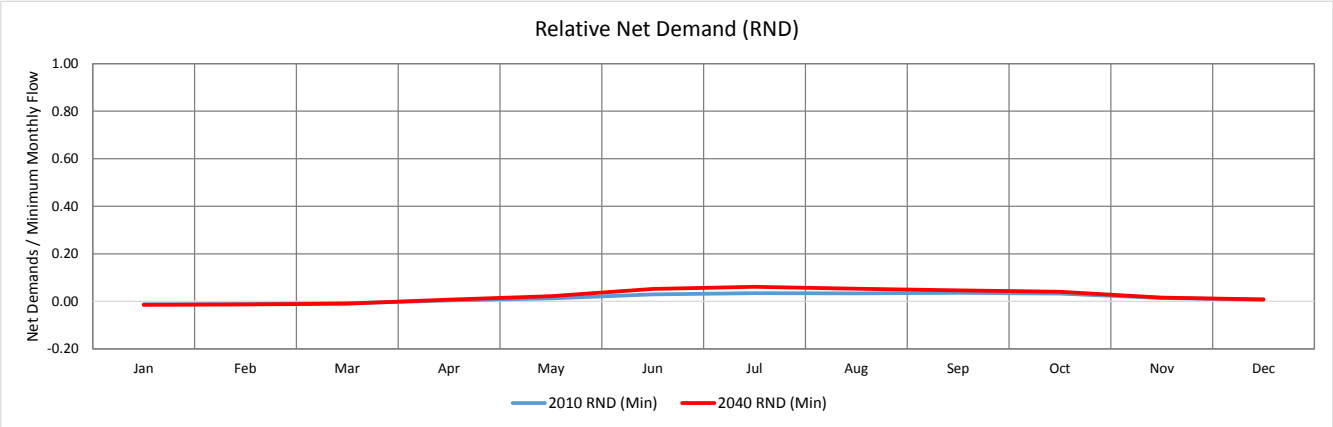
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150203 Name: Middle Alabama River Subbasin

Drainage Area: 21,140 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-96.02	-142.00	-121.92	33.18	75.76	151.23	158.91	159.53	169.11	141.63	52.31	22.76	50.37
2040 Net Cumulative Demands (CFS)	-115.24	-163.55	-142.71	64.83	133.91	266.45	283.19	248.15	220.33	173.14	58.95	25.13	87.72

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351	29,768
Median (CFS)	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925	30,993
10th Percentile (CFS)	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217	16,476
Minimum (CFS)	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165	9,435

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	-0.01	-0.01	0.00	0.01	0.03	0.03	0.03	0.04	0.03	0.01	0.01	0.01
2040 RND (Min)	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.06	0.05	0.05	0.04	0.02	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

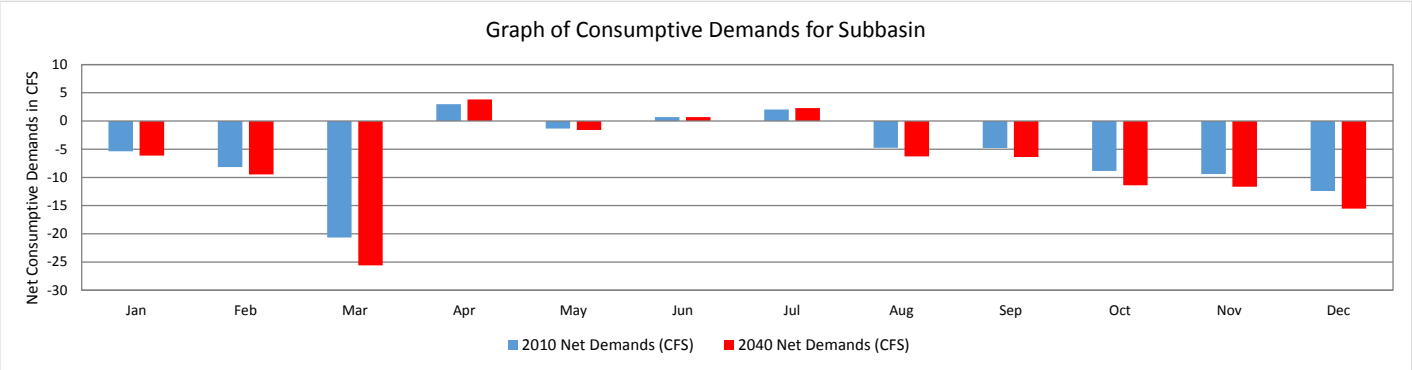
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

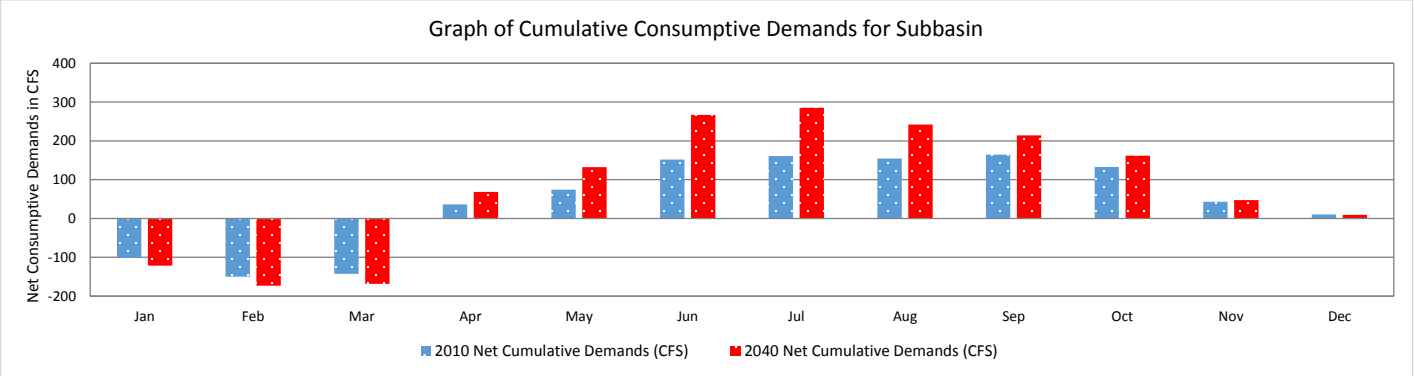
Subbasin Flows and Consumptive Demands

Subbasin #: 03150204 Name: Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 22,750 square miles

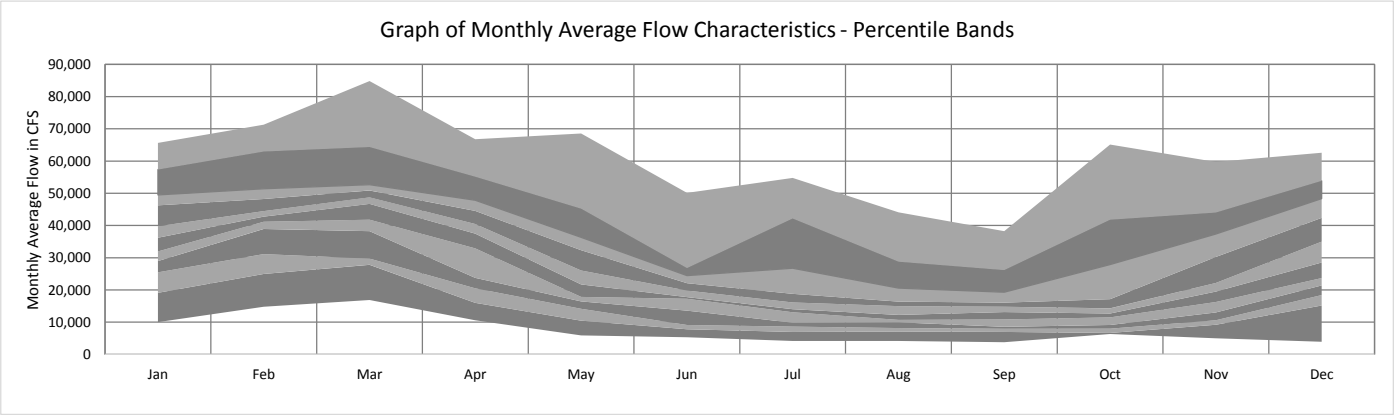
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-5.38	-8.16	-20.65	3.00	-1.33	0.69	2.04	-4.76	-4.78	-8.86	-9.40	-12.43	-5.83
2040 Net Demands (CFS)	-6.13	-9.46	-25.59	3.80	-1.58	0.71	2.30	-6.28	-6.37	-11.38	-11.64	-15.53	-7.26



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-101.40	-150.16	-142.57	36.18	74.43	151.92	160.95	154.77	164.33	132.77	42.91	10.33	44.54
2040 Net Cumulative Demands (CFS)	-121.37	-173.01	-168.30	68.64	132.33	267.16	285.49	241.87	213.96	161.76	47.31	9.61	80.45



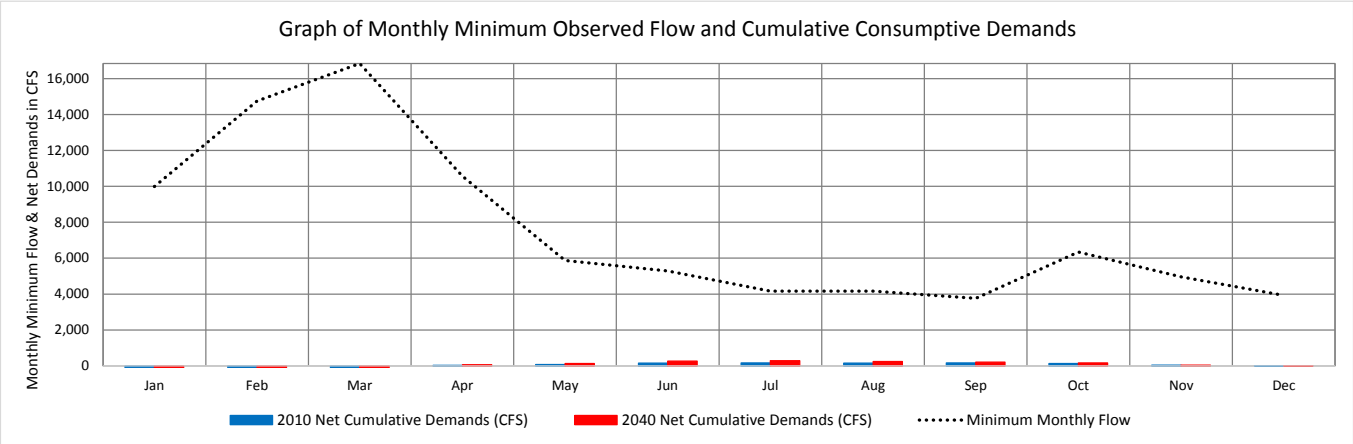
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314	27,289
Median (CFS)	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532	29,459
10th Percentile (CFS)	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187	17,257
Minimum (CFS)	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929	10,270

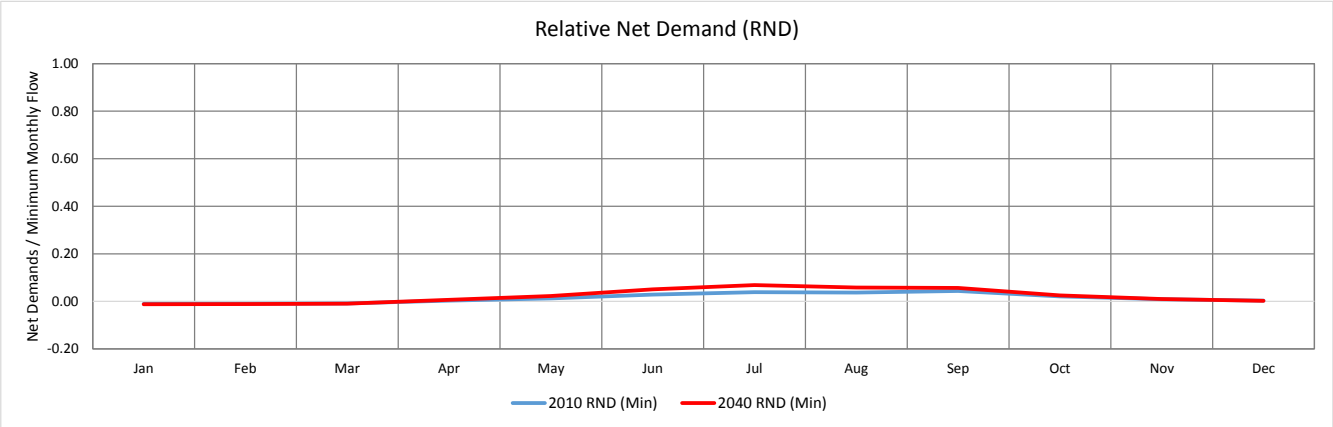
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03150204 Name: Alabama River Subbasin

Drainage Area: 22,750 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-101.40	-150.16	-142.57	36.18	74.43	151.92	160.95	154.77	164.33	132.77	42.91	10.33	44.54
2040 Net Cumulative Demands (CFS)	-121.37	-173.01	-168.30	68.64	132.33	267.16	285.49	241.87	213.96	161.76	47.31	9.61	80.45

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314	27,289
Median (CFS)	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532	29,459
10th Percentile (CFS)	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187	17,257
Minimum (CFS)	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929	10,270

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.01	-0.01	-0.01	0.00	0.01	0.03	0.04	0.04	0.04	0.02	0.01	0.00	0.00
2040 RND (Min)	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.07	0.06	0.06	0.03	0.01	0.00	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

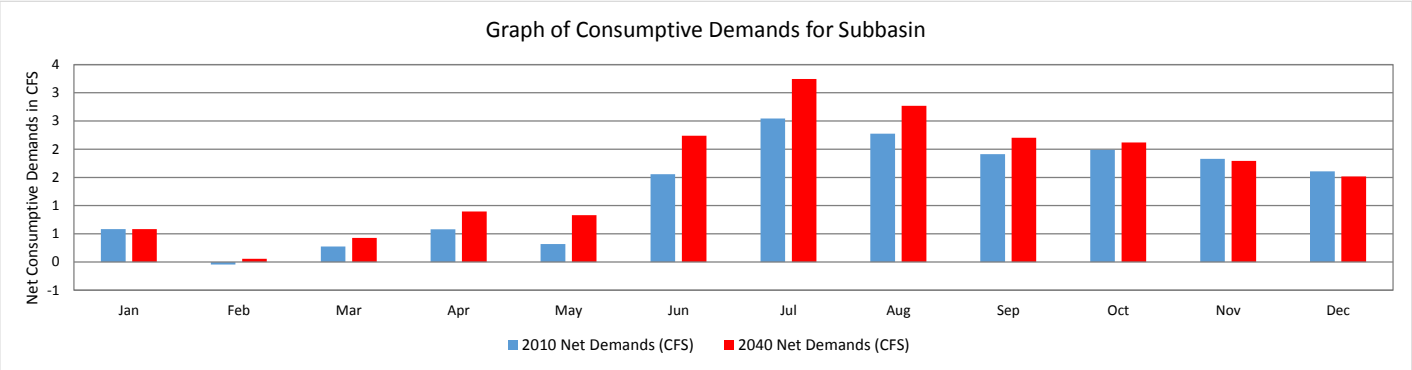
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

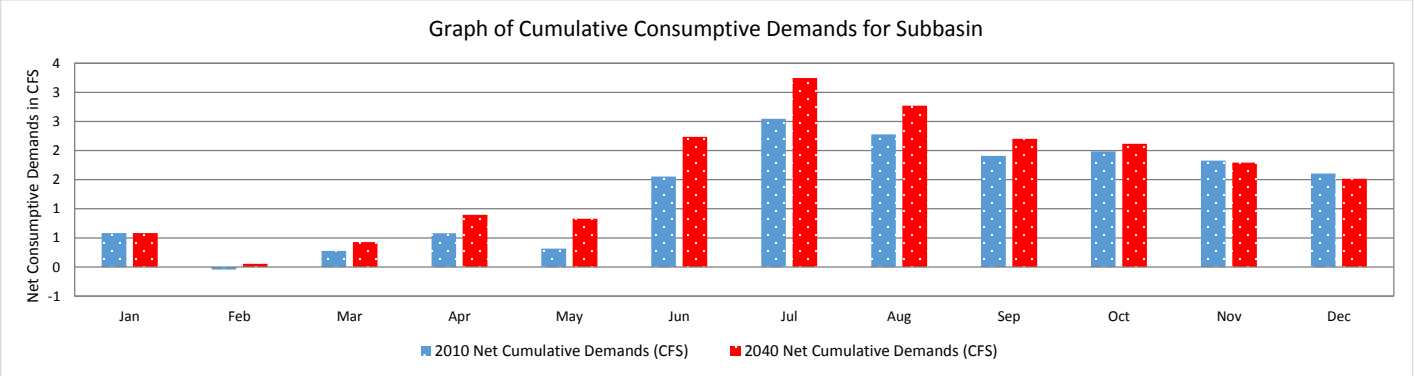
Subbasin Flows and Consumptive Demands

Subbasin #: 03160103 Name: Buttahatchee River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 798 square miles

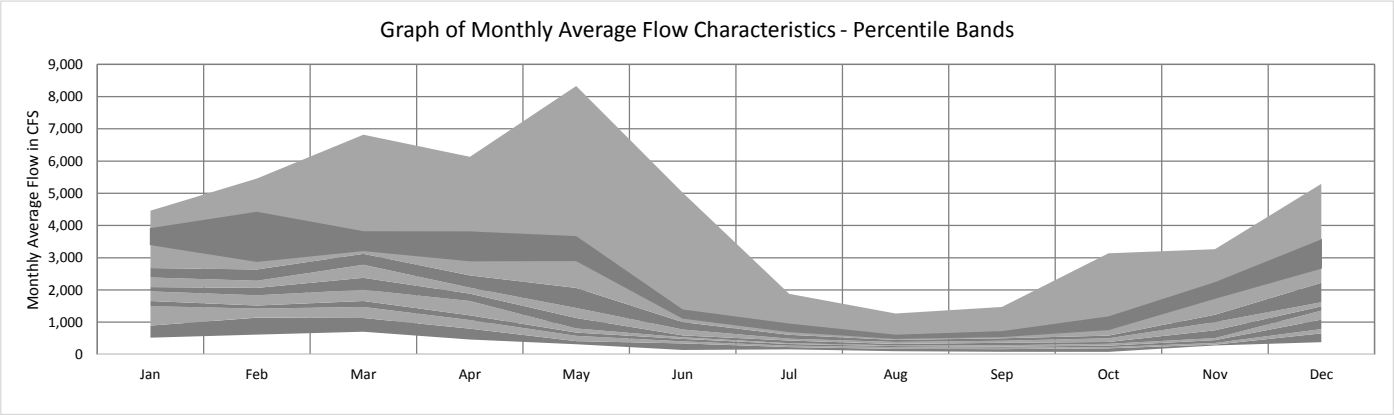
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	0.58	-0.04	0.28	0.58	0.32	1.55	2.54	2.28	1.91	1.99	1.83	1.61	1.29
2040 Net Demands (CFS)	0.58	0.06	0.43	0.90	0.83	2.24	3.25	2.77	2.20	2.12	1.79	1.52	1.56



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.58	-0.04	0.28	0.58	0.32	1.55	2.54	2.28	1.91	1.99	1.83	1.61	1.29
2040 Net Cumulative Demands (CFS)	0.58	0.06	0.43	0.90	0.83	2.24	3.25	2.77	2.20	2.12	1.79	1.52	1.56



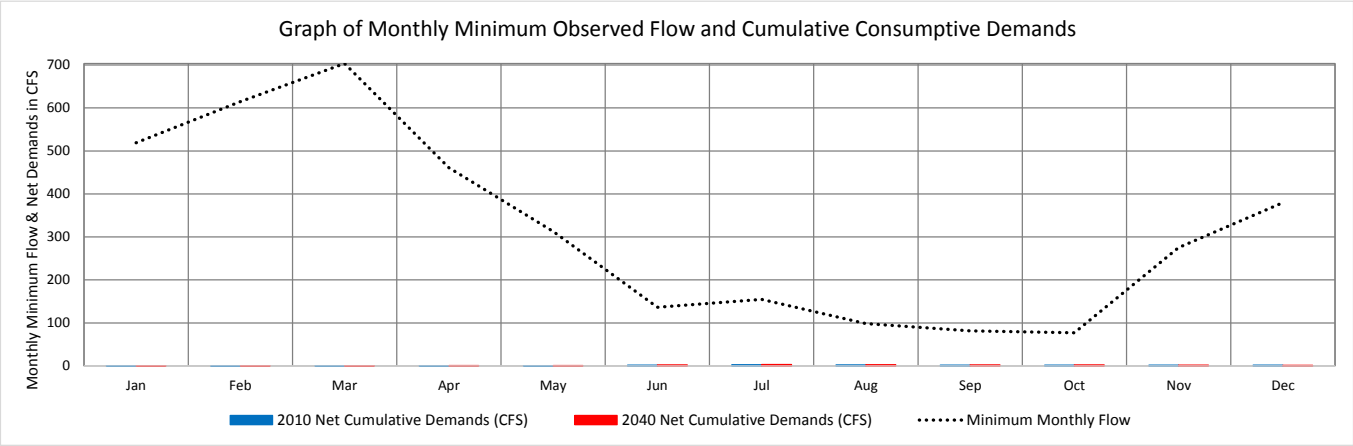
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849	1,384
Median (CFS)	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489	1,370
10th Percentile (CFS)	892	1,137	1,129	795	411	340	227	165	161	188	303	651	742
Minimum (CFS)	519	615	704	461	313	137	155	98	82	77	275	380	611

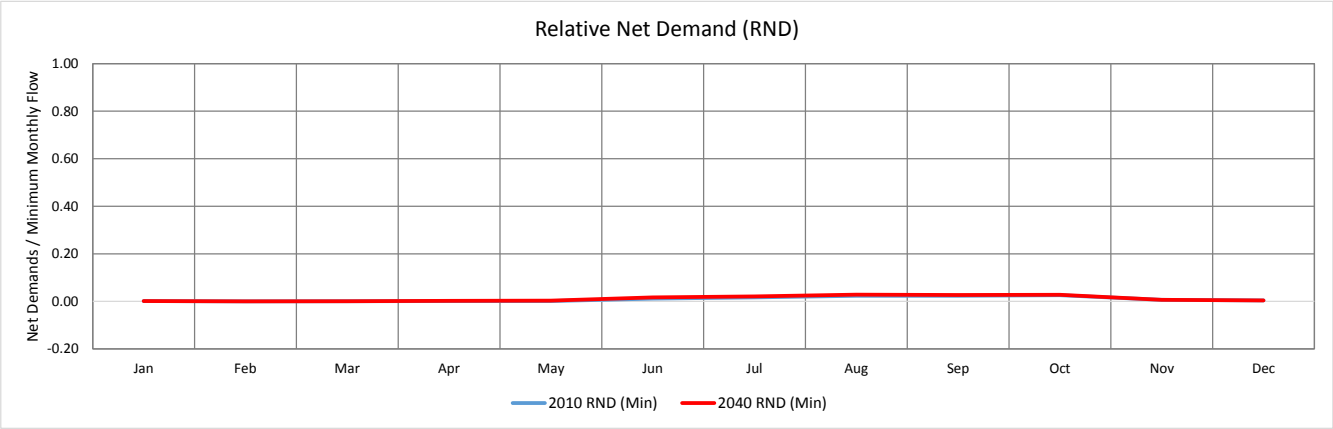
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160103 Name: Buttahatchee River Subbasin in Alabama

Drainage Area: 798 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.58	-0.04	0.28	0.58	0.32	1.55	2.54	2.28	1.91	1.99	1.83	1.61	1.29
2040 Net Cumulative Demands (CFS)	0.58	0.06	0.43	0.90	0.83	2.24	3.25	2.77	2.20	2.12	1.79	1.52	1.56

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849	1,384
Median (CFS)	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489	1,370
10th Percentile (CFS)	892	1,137	1,129	795	411	340	227	165	161	188	303	651	742
Minimum (CFS)	519	615	704	461	313	137	155	98	82	77	275	380	611

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.03	0.01	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.03	0.03	0.01	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

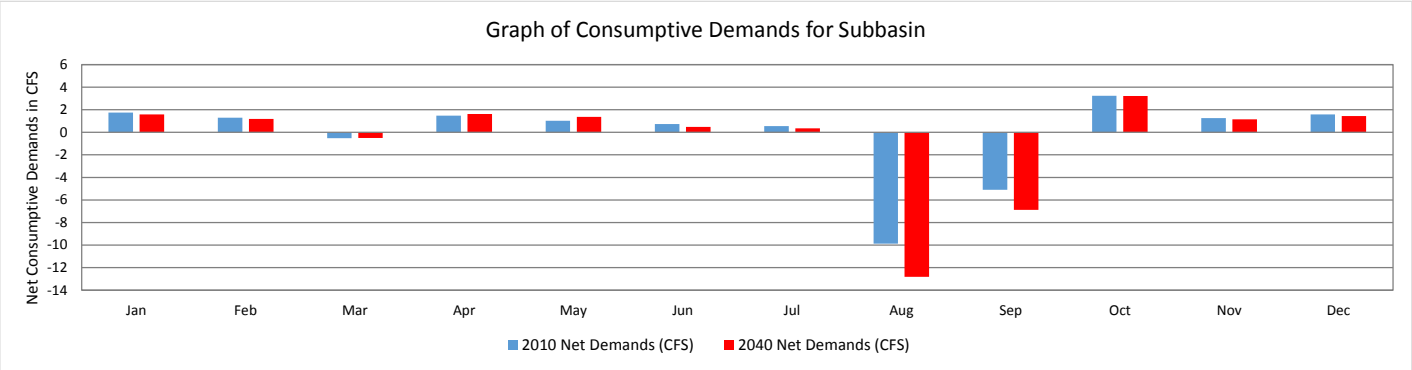
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

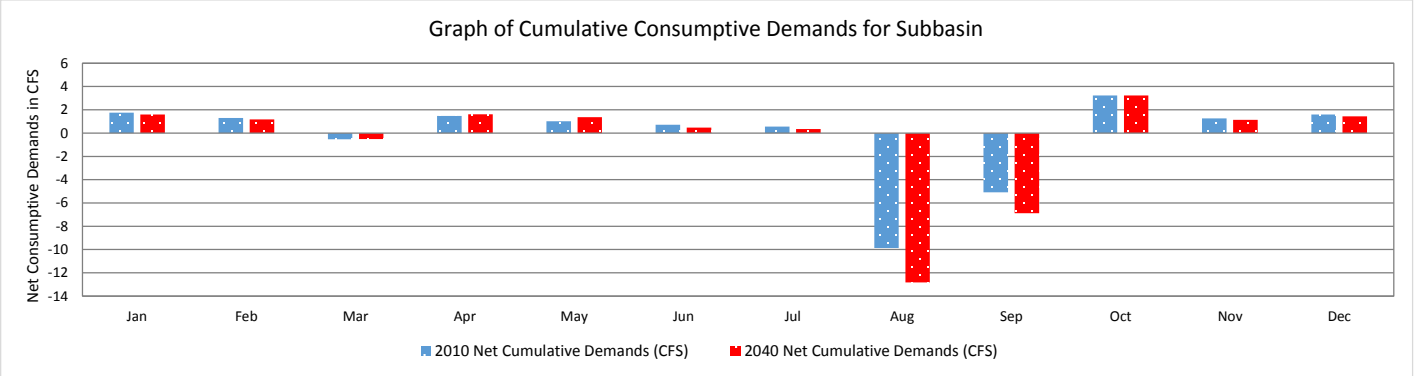
Subbasin Flows and Consumptive Demands

Subbasin #: 03160105 Name: Luxapallila Creek Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 309 square miles

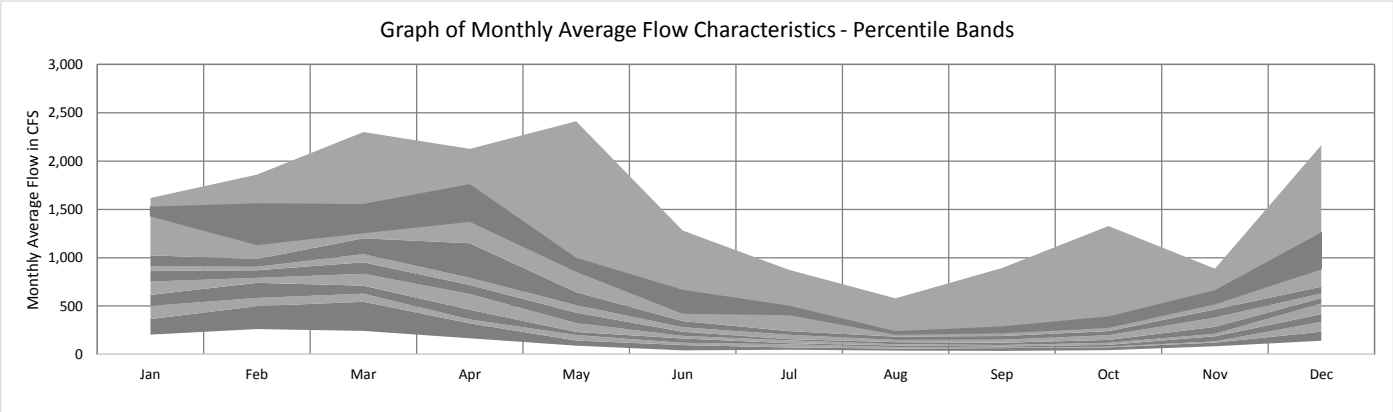
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	1.75	1.30	-0.52	1.47	1.02	0.73	0.56	-9.87	-5.09	3.23	1.26	1.59	-0.21
2040 Net Demands (CFS)	1.59	1.18	-0.50	1.62	1.37	0.48	0.34	-12.82	-6.88	3.23	1.15	1.44	-0.65



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	1.75	1.30	-0.52	1.47	1.02	0.73	0.56	-9.87	-5.09	3.23	1.26	1.59	-0.21
2040 Net Cumulative Demands (CFS)	1.59	1.18	-0.50	1.62	1.37	0.48	0.34	-12.82	-6.88	3.23	1.15	1.44	-0.65



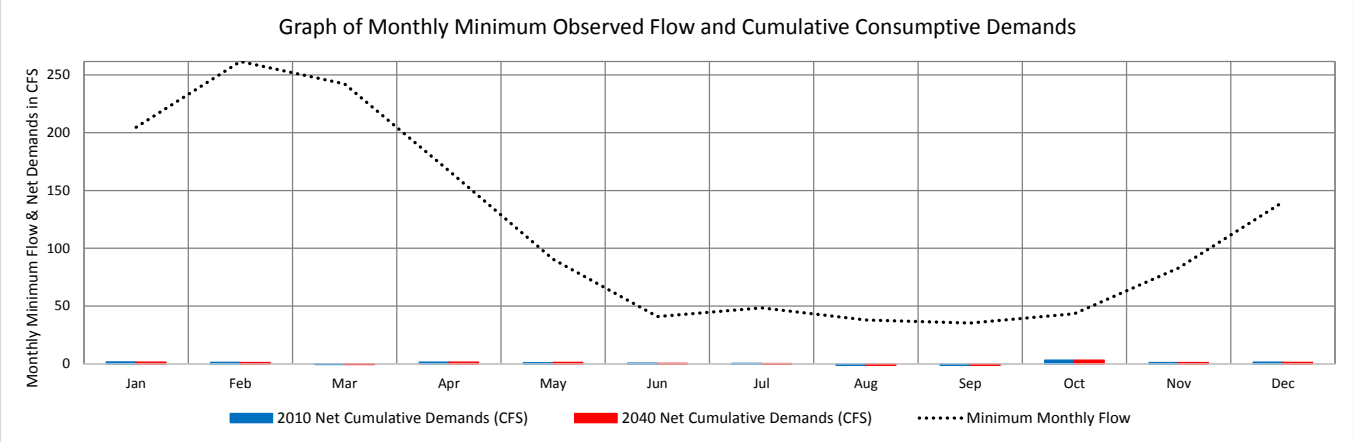
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	889	919	987	870	545	310	242	155	169	233	354	665	526
Median (CFS)	863	870	952	718	430	235	158	126	121	150	284	581	539
10th Percentile (CFS)	366	499	544	321	142	96	70	60	64	74	122	233	279
Minimum (CFS)	205	262	242	167	90	41	48	38	35	43	83	140	217

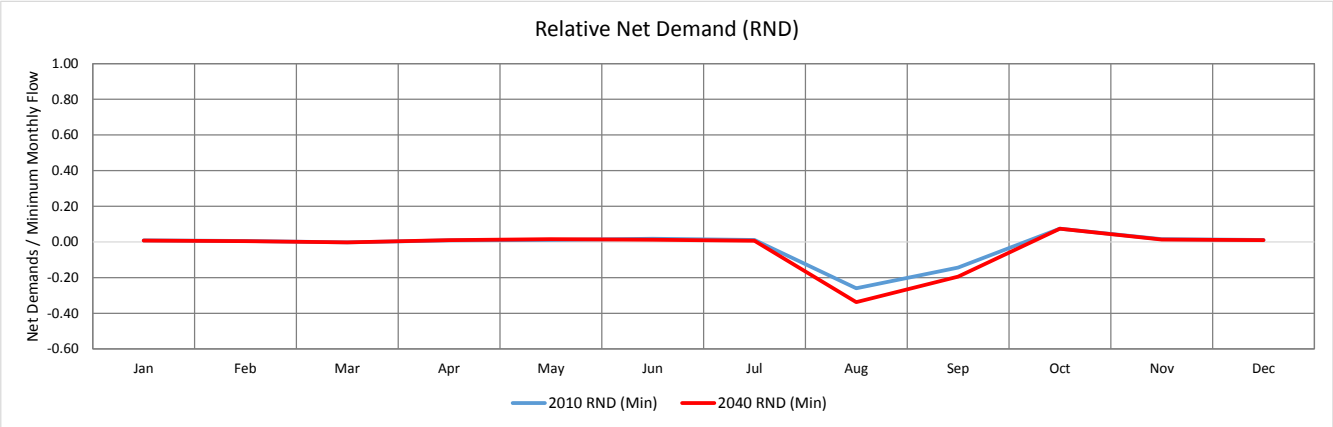
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160105 Name: Luxapallila Creek Subbasin in Alabama

Drainage Area: 309 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	1.75	1.30	-0.52	1.47	1.02	0.73	0.56	-9.87	-5.09	3.23	1.26	1.59	-0.21
2040 Net Cumulative Demands (CFS)	1.59	1.18	-0.50	1.62	1.37	0.48	0.34	-12.82	-6.88	3.23	1.15	1.44	-0.65

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	889	919	987	870	545	310	242	155	169	233	354	665	526
Median (CFS)	863	870	952	718	430	235	158	126	121	150	284	581	539
10th Percentile (CFS)	366	499	544	321	142	96	70	60	64	74	122	233	279
Minimum (CFS)	205	262	242	167	90	41	48	38	35	43	83	140	217

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.01	0.00	0.00	0.01	0.01	0.02	0.01	-0.26	-0.14	0.07	0.02	0.01	0.00
2040 RND (Min)	0.01	0.00	0.00	0.01	0.02	0.01	0.01	-0.34	-0.19	0.07	0.01	0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

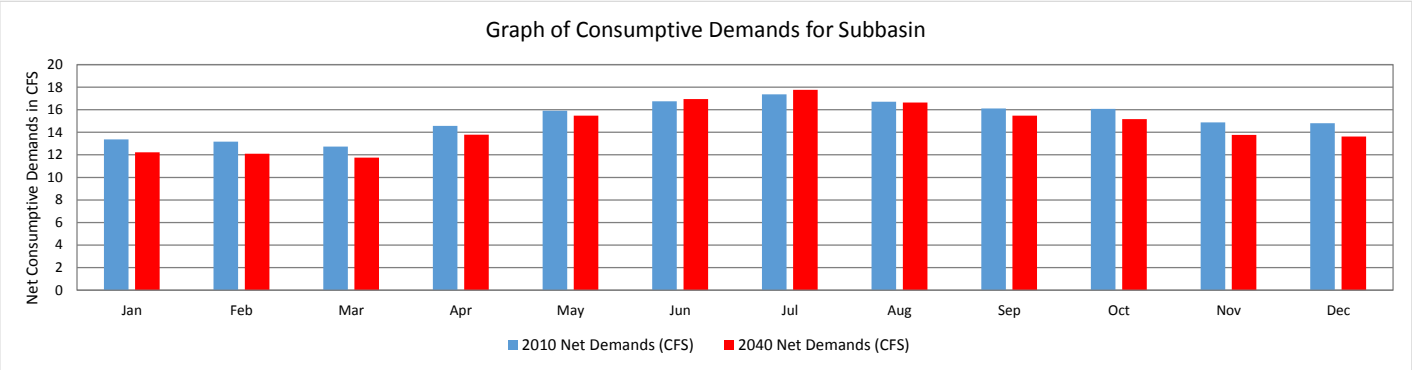
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	-0.03	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.08	-0.04	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

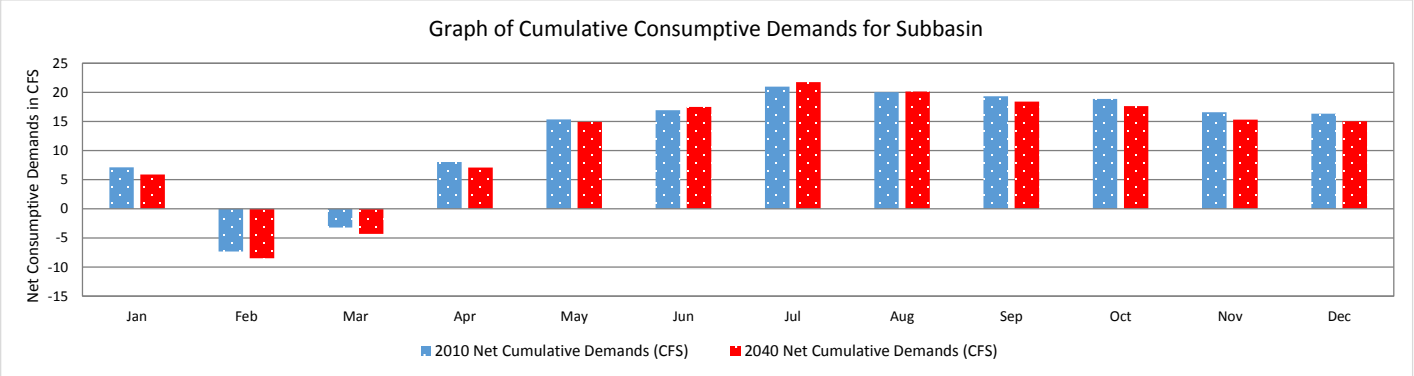
Subbasin Flows and Consumptive Demands

Subbasin #: 03160106 Name: Upper Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 9,078 square miles

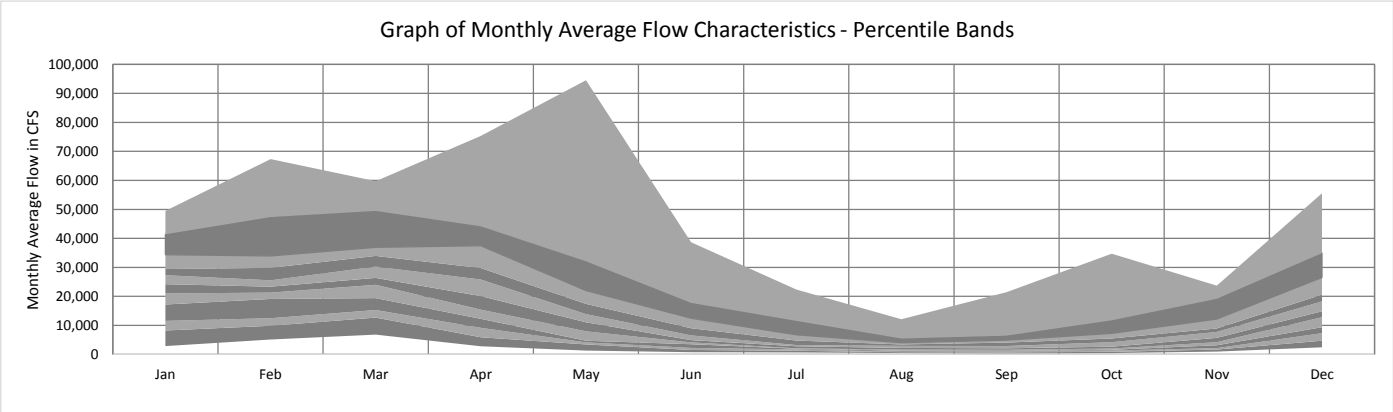
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	13.36	13.17	12.72	14.57	15.91	16.75	17.37	16.71	16.10	16.08	14.87	14.81	15.20
2040 Net Demands (CFS)	12.22	12.09	11.75	13.79	15.48	16.95	17.77	16.63	15.47	15.16	13.76	13.62	14.56



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	7.13	-7.35	-3.22	8.04	15.34	16.95	20.97	20.04	19.32	18.86	16.59	16.35	12.42
2040 Net Cumulative Demands (CFS)	5.88	-8.51	-4.30	7.08	14.94	17.49	21.76	20.15	18.42	17.64	15.31	15.03	11.74



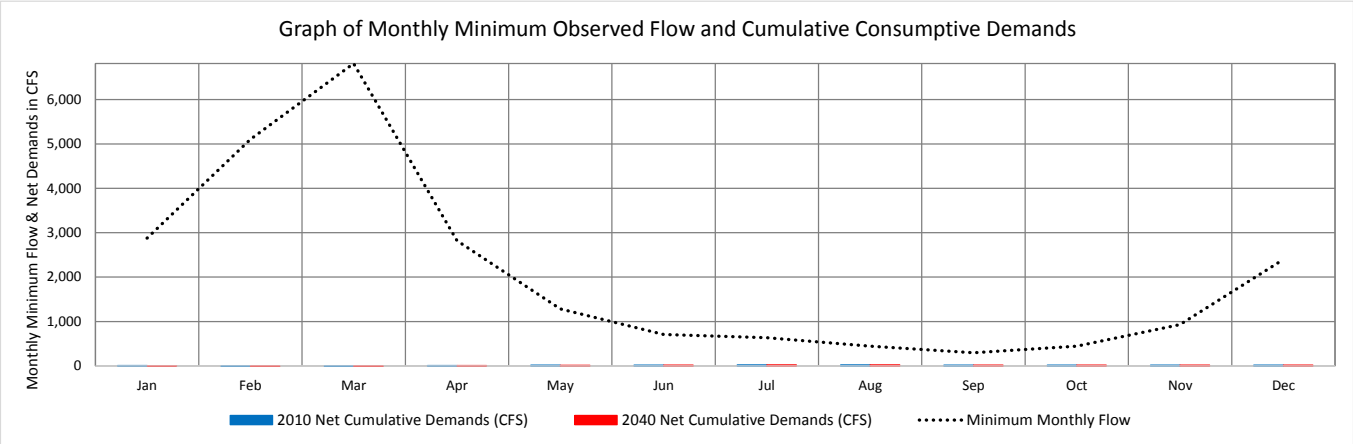
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298	13,997
Median (CFS)	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830	13,819
10th Percentile (CFS)	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681	7,272
Minimum (CFS)	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396	4,905

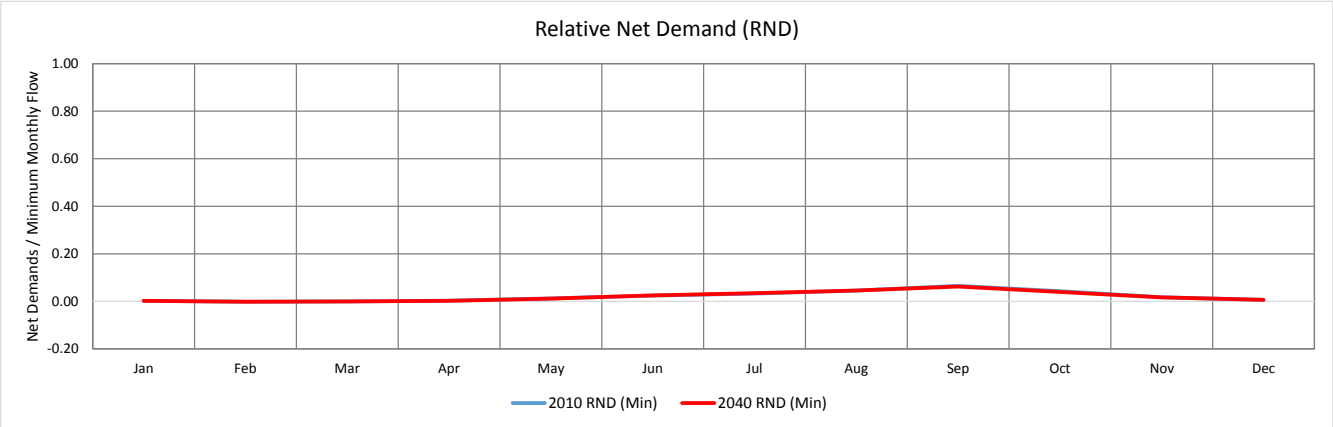
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160106 Name: Upper Tombigbee River Subbasin

Drainage Area: 9,078 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	7.13	-7.35	-3.22	8.04	15.34	16.95	20.97	20.04	19.32	18.86	16.59	16.35	12.42
2040 Net Cumulative Demands (CFS)	5.88	-8.51	-4.30	7.08	14.94	17.49	21.76	20.15	18.42	17.64	15.31	15.03	11.74

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298	13,997
Median (CFS)	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830	13,819
10th Percentile (CFS)	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681	7,272
Minimum (CFS)	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396	4,905

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.04	0.02	0.01	0.00
2040 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.06	0.04	0.02	0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

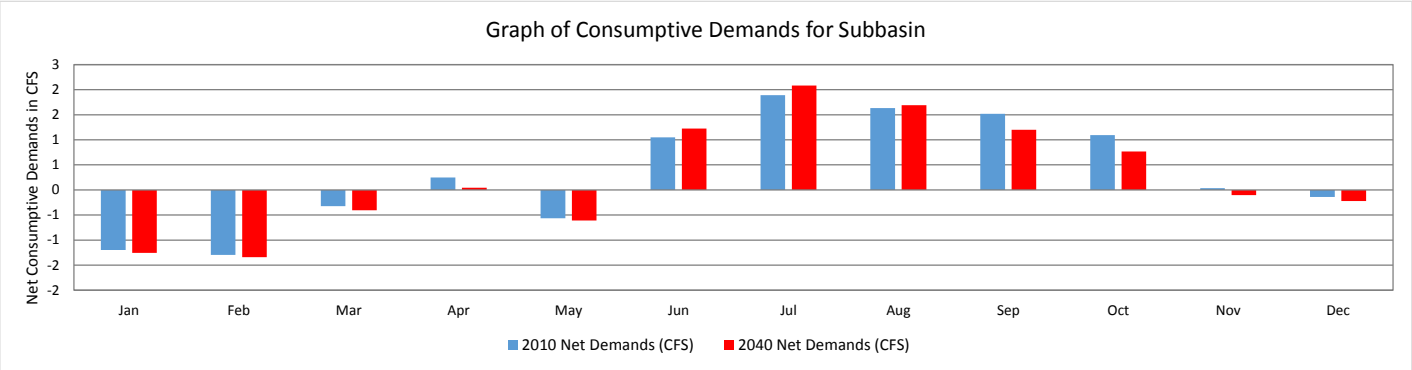
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

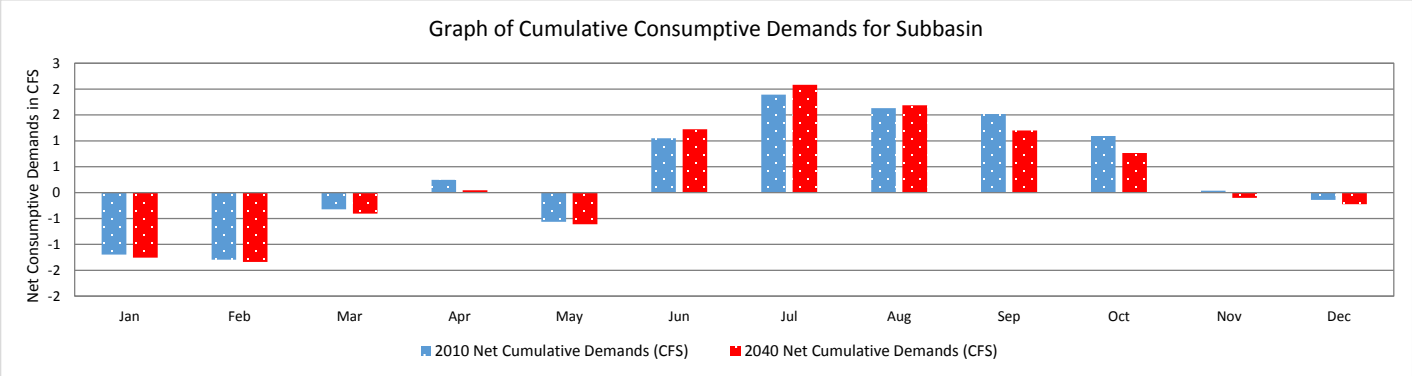
Subbasin Flows and Consumptive Demands

Subbasin #: 03160107 Name: Sipsey River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 769 square miles

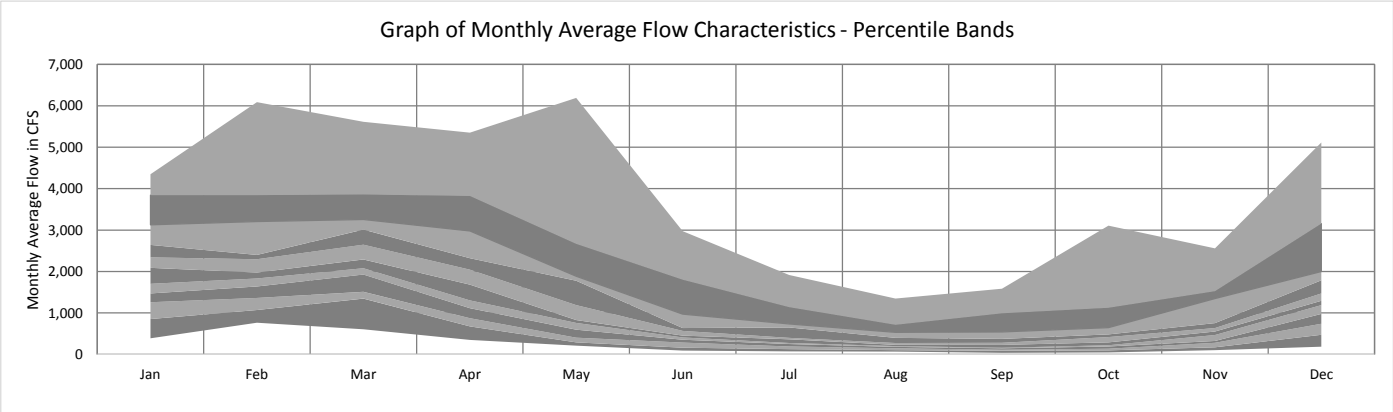
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-1.20	-1.30	-0.32	0.25	-0.56	1.05	1.89	1.63	1.52	1.09	0.04	-0.14	0.33
2040 Net Demands (CFS)	-1.26	-1.34	-0.41	0.05	-0.61	1.22	2.08	1.69	1.20	0.77	-0.10	-0.22	0.26



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-1.20	-1.30	-0.32	0.25	-0.56	1.05	1.89	1.63	1.52	1.09	0.04	-0.14	0.33
2040 Net Cumulative Demands (CFS)	-1.26	-1.34	-0.41	0.05	-0.61	1.22	2.08	1.69	1.20	0.77	-0.10	-0.22	0.26



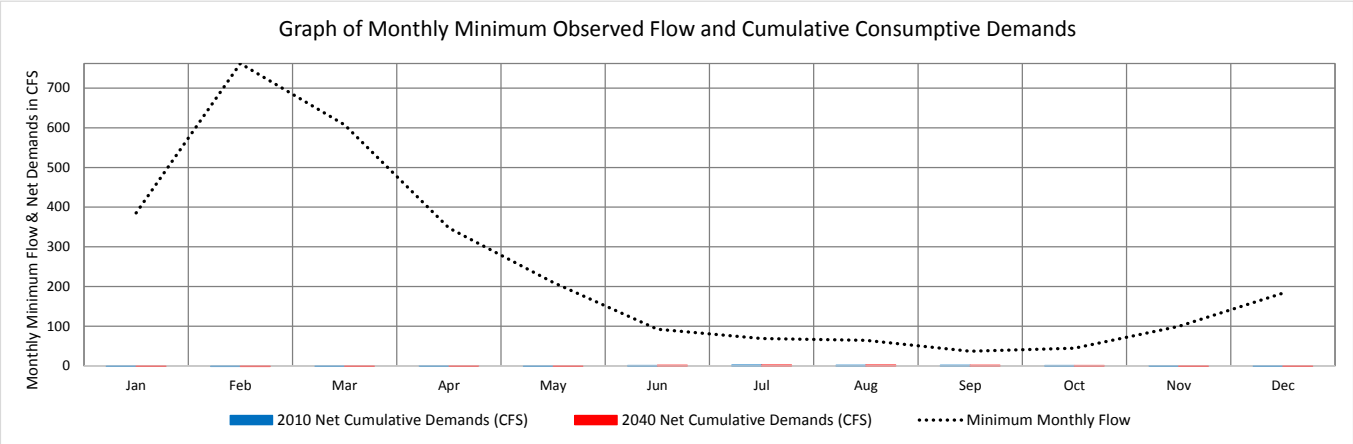
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572	1,246
Median (CFS)	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294	1,287
10th Percentile (CFS)	854	1,068	1,345	675	290	162	125	102	87	95	171	472	738
Minimum (CFS)	386	762	607	348	210	92	69	64	37	44	99	183	466

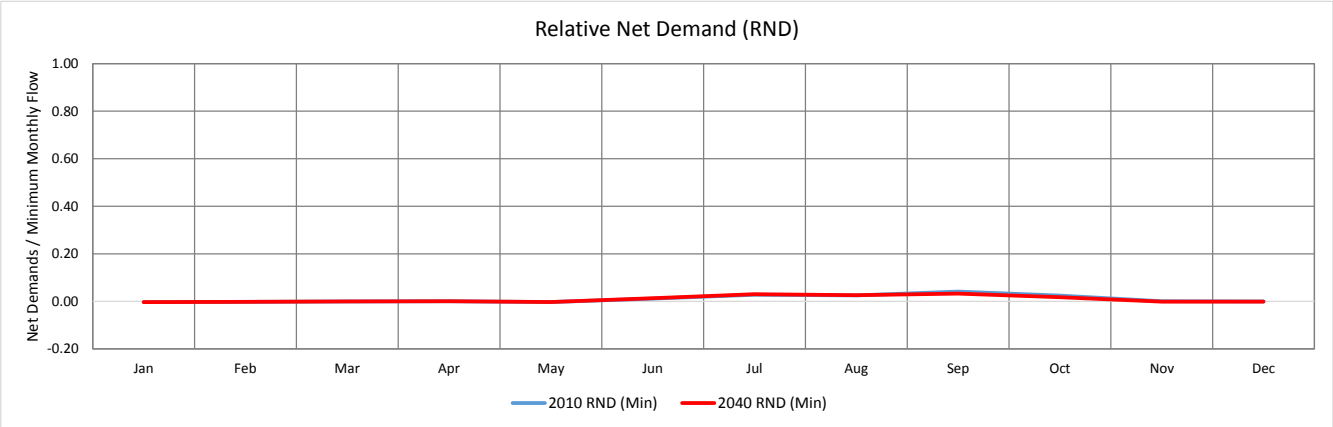
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160107 Name: Sipsey River Subbasin

Drainage Area: 769 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-1.20	-1.30	-0.32	0.25	-0.56	1.05	1.89	1.63	1.52	1.09	0.04	-0.14	0.33
2040 Net Cumulative Demands (CFS)	-1.26	-1.34	-0.41	0.05	-0.61	1.22	2.08	1.69	1.20	0.77	-0.10	-0.22	0.26

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572	1,246
Median (CFS)	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294	1,287
10th Percentile (CFS)	854	1,068	1,345	675	290	162	125	102	87	95	171	472	738
Minimum (CFS)	386	762	607	348	210	92	69	64	37	44	99	183	466

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.04	0.02	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.02	0.00	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

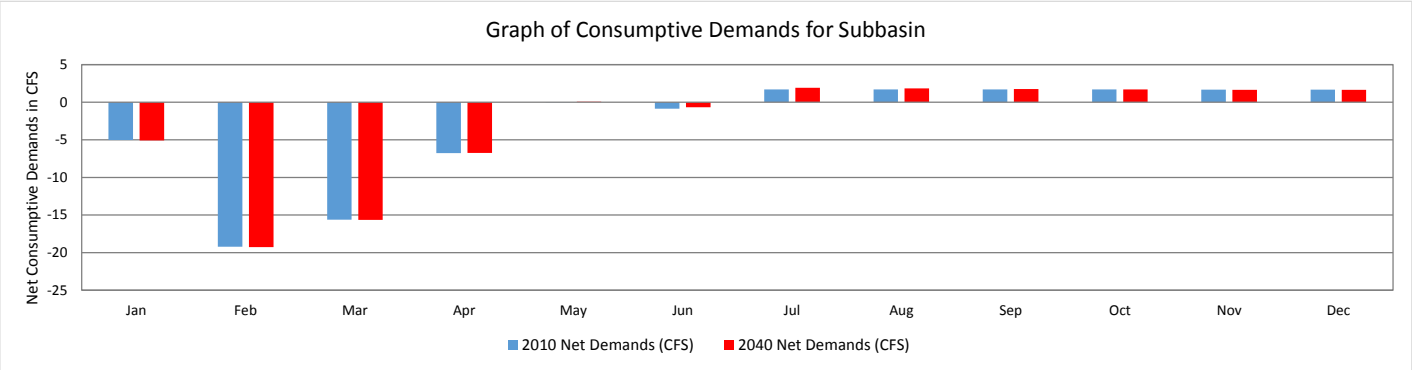
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

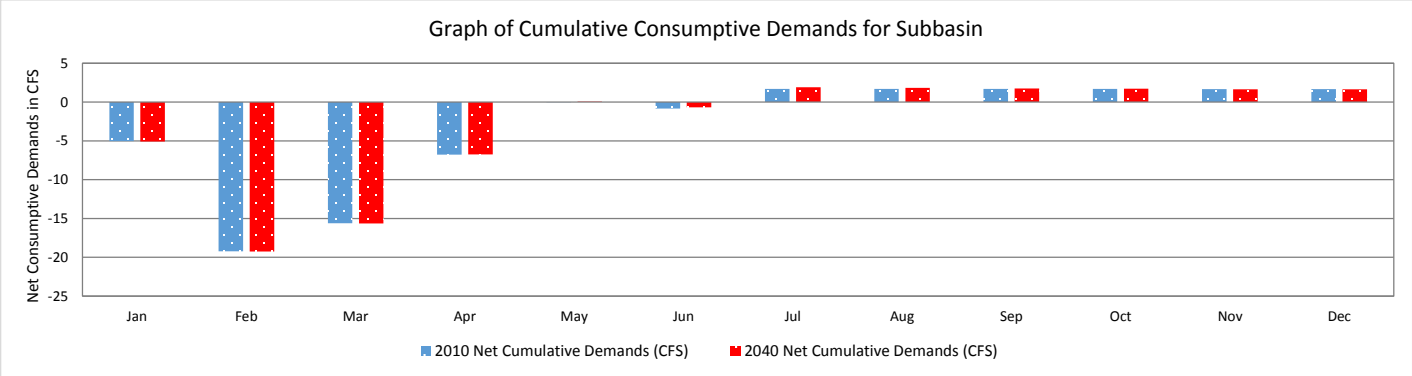
Subbasin Flows and Consumptive Demands

Subbasin #: 03160108 Name: Noxubee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,460 square miles

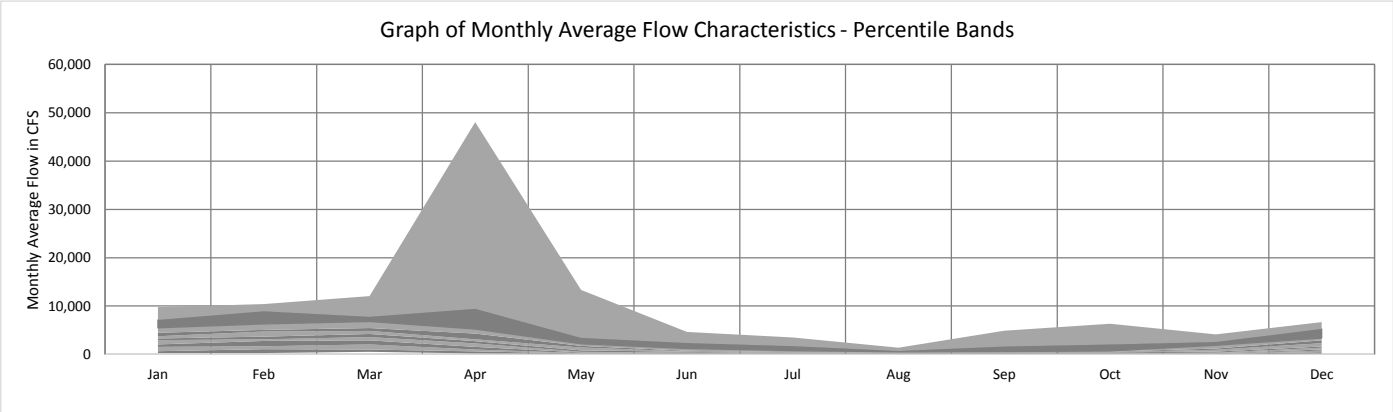
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-5.04	-19.22	-15.62	-6.78	-0.01	-0.85	1.71	1.70	1.69	1.69	1.68	1.68	-3.11
2040 Net Demands (CFS)	-5.09	-19.26	-15.64	-6.75	0.07	-0.68	1.90	1.83	1.76	1.71	1.65	1.63	-3.07



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-5.04	-19.22	-15.62	-6.78	-0.01	-0.85	1.71	1.70	1.69	1.69	1.68	1.68	-3.11
2040 Net Cumulative Demands (CFS)	-5.09	-19.26	-15.64	-6.75	0.07	-0.68	1.90	1.83	1.76	1.71	1.65	1.63	-3.07



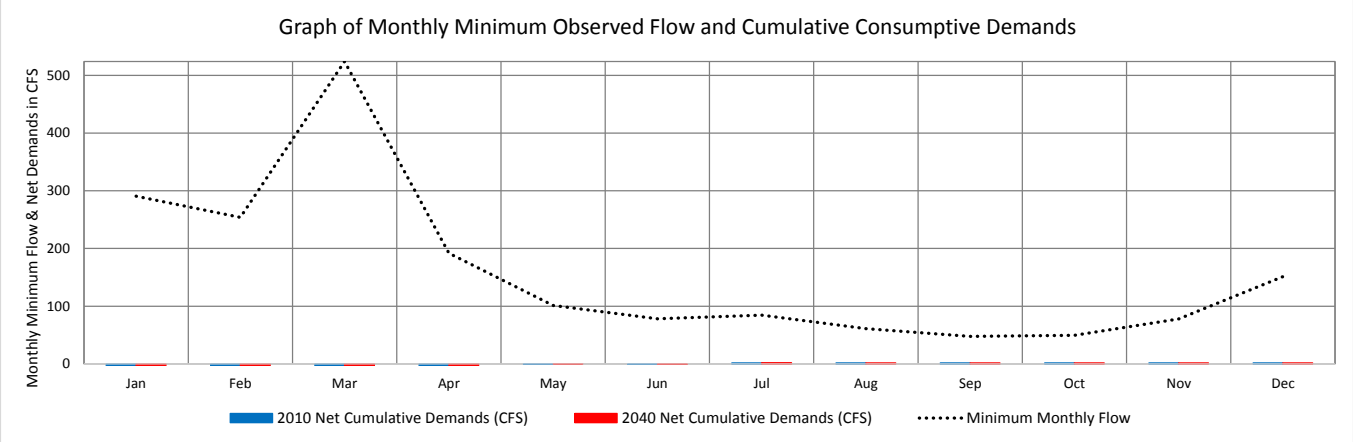
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223	2,062
Median (CFS)	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607	1,965
10th Percentile (CFS)	656	1,066	993	593	187	131	150	113	88	81	93	430	745
Minimum (CFS)	291	254	524	192	101	78	85	61	48	50	78	151	569

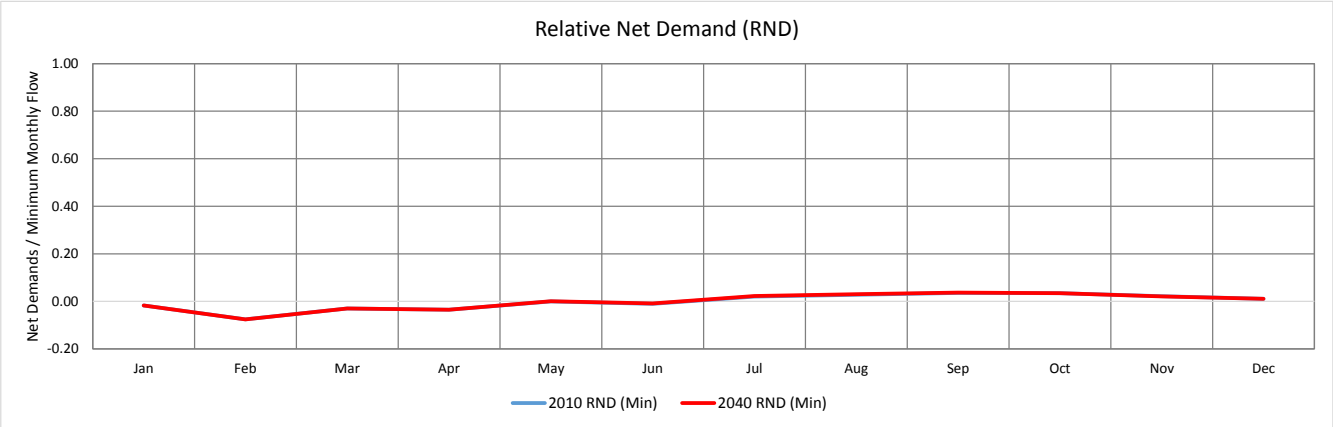
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160108 Name: Noxubee River Subbasin

Drainage Area: 1,460 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-5.04	-19.22	-15.62	-6.78	-0.01	-0.85	1.71	1.70	1.69	1.69	1.68	1.68	-3.11
2040 Net Cumulative Demands (CFS)	-5.09	-19.26	-15.64	-6.75	0.07	-0.68	1.90	1.83	1.76	1.71	1.65	1.63	-3.07

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223	2,062
Median (CFS)	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607	1,965
10th Percentile (CFS)	656	1,066	993	593	187	131	150	113	88	81	93	430	745
Minimum (CFS)	291	254	524	192	101	78	85	61	48	50	78	151	569

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.08	-0.03	-0.04	0.00	-0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01
2040 RND (Min)	-0.02	-0.08	-0.03	-0.04	0.00	-0.01	0.02	0.03	0.04	0.03	0.02	0.01	-0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

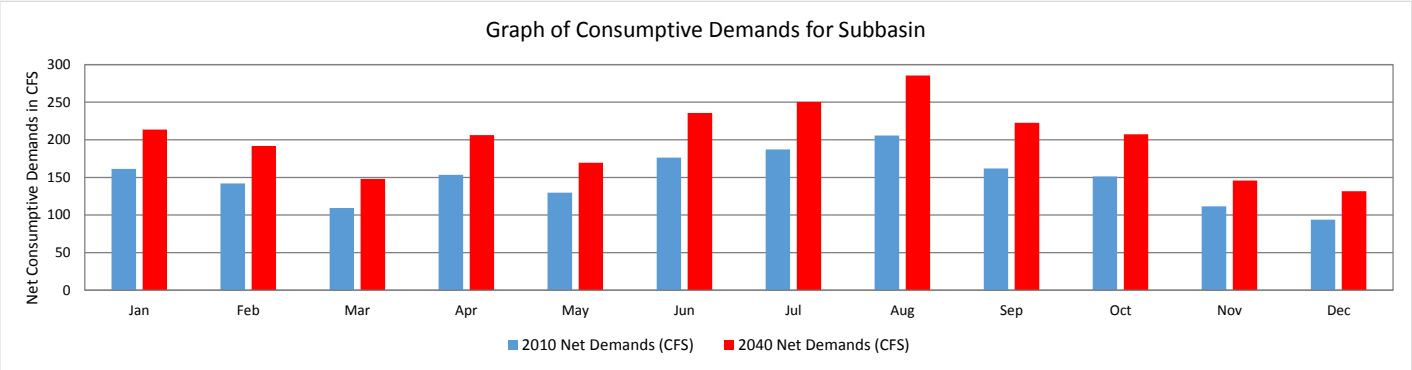
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

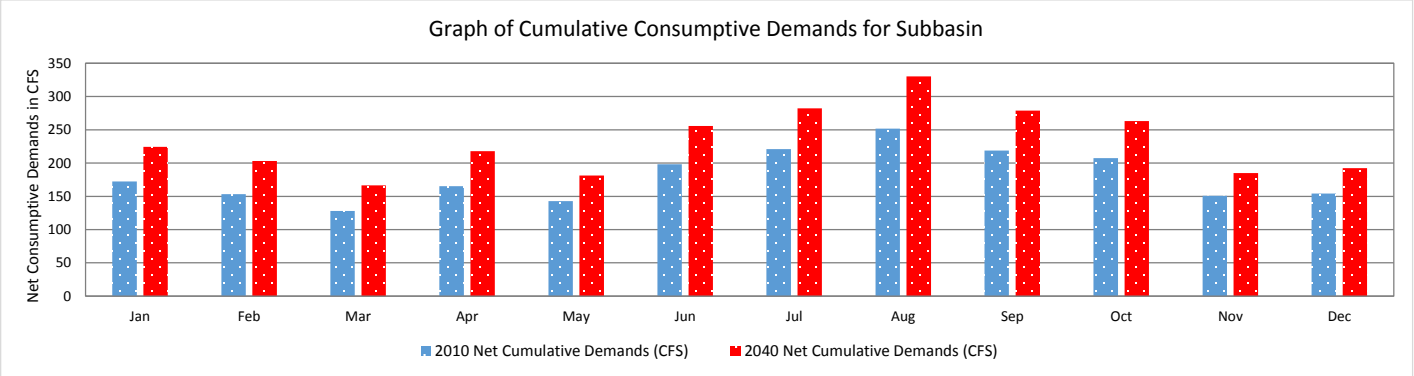
Subbasin Flows and Consumptive Demands

Subbasin #: 03160109 Name: Mulberry Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,390 square miles

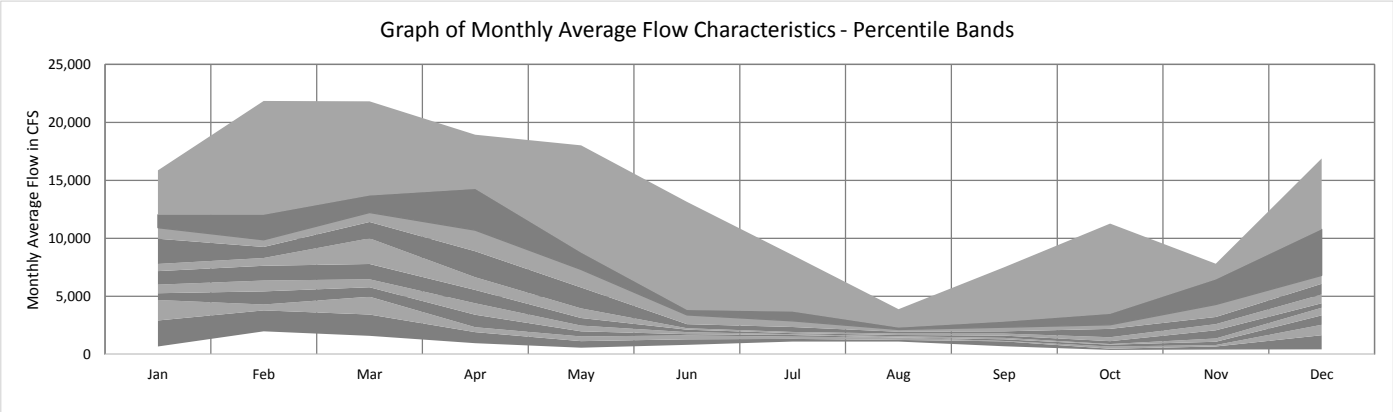
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	161.25	141.89	109.41	153.29	129.80	176.40	187.12	205.80	161.93	151.20	111.43	93.67	148.60
2040 Net Demands (CFS)	213.54	191.86	147.88	206.33	169.61	235.79	250.36	285.50	222.63	207.39	145.84	131.52	200.69



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	172.32	153.22	128.13	165.37	142.65	198.06	221.01	251.69	218.90	207.34	150.65	154.28	180.30
2040 Net Cumulative Demands (CFS)	224.46	202.97	166.39	217.81	181.34	255.59	282.27	330.08	278.90	263.18	185.03	192.31	231.69



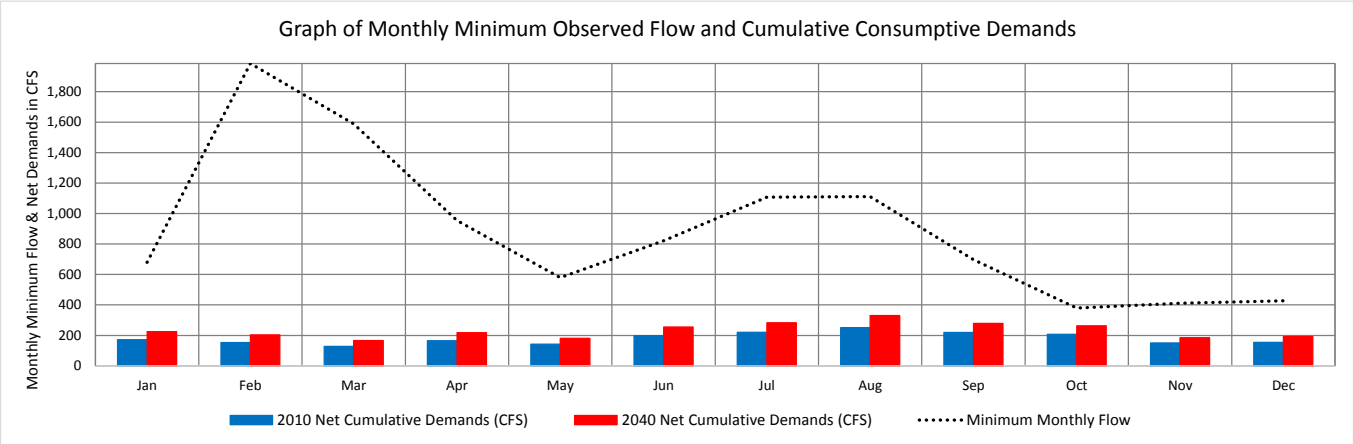
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200	4,486
Median (CFS)	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402	4,597
10th Percentile (CFS)	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650	2,609
Minimum (CFS)	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427	1,477

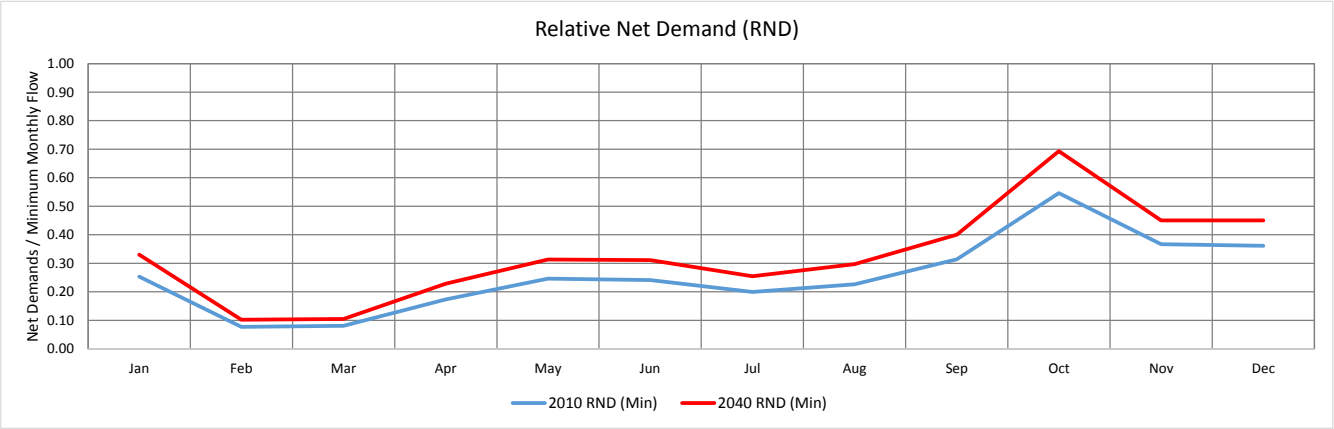
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160109 Name: Mulberry Fork Subbasin

Drainage Area: 2,390 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	172.32	153.22	128.13	165.37	142.65	198.06	221.01	251.69	218.90	207.34	150.65	154.28	180.30
2040 Net Cumulative Demands (CFS)	224.46	202.97	166.39	217.81	181.34	255.59	282.27	330.08	278.90	263.18	185.03	192.31	231.69

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200	4,486
Median (CFS)	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402	4,597
10th Percentile (CFS)	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650	2,609
Minimum (CFS)	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427	1,477

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.25	0.08	0.08	0.17	0.25	0.24	0.20	0.23	0.31	0.55	0.37	0.36	0.12
2040 RND (Min)	0.33	0.10	0.10	0.23	0.31	0.31	0.26	0.30	0.40	0.69	0.45	0.45	0.16

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

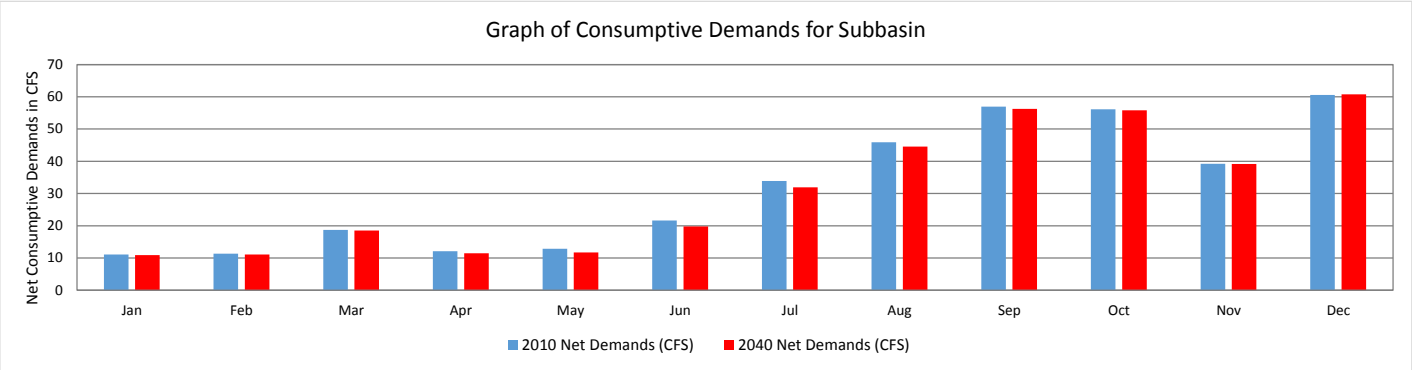
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.02	0.02	0.01	0.02	0.03	0.07	0.09	0.14	0.11	0.11	0.06	0.03	0.04
2040 RND (Avg)	0.03	0.03	0.02	0.03	0.04	0.10	0.12	0.18	0.14	0.13	0.07	0.04	0.05

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

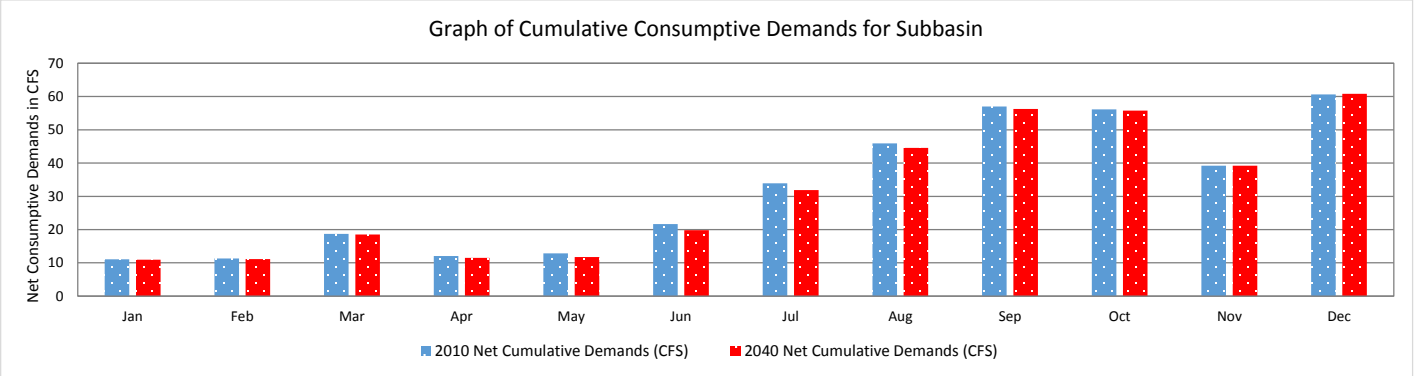
Subbasin Flows and Consumptive Demands

Subbasin #: 03160110 Name: Sipsey Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,010 square miles

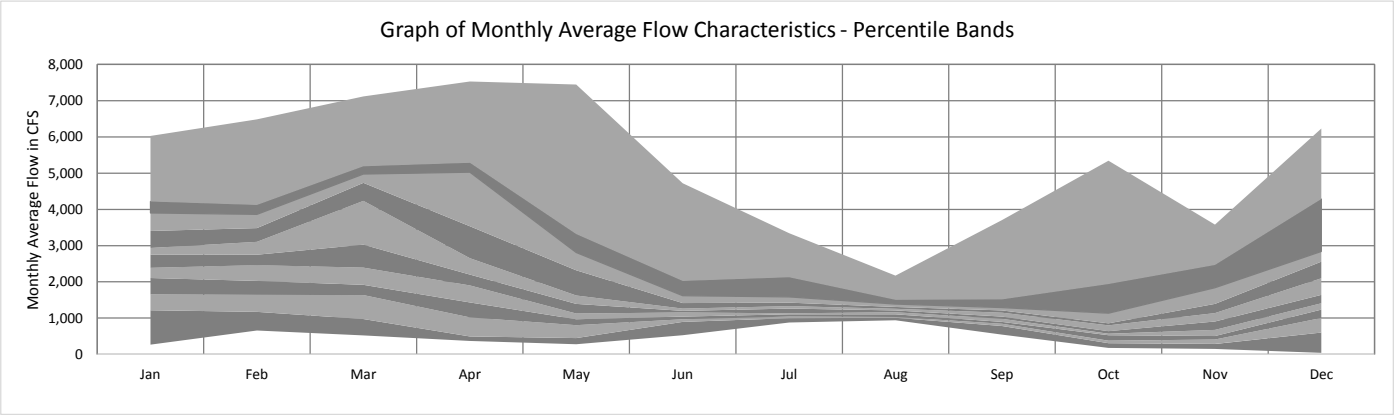
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	11.08	11.33	18.72	12.08	12.85	21.65	33.89	45.89	56.97	56.14	39.22	60.61	31.70
2040 Net Demands (CFS)	10.92	11.11	18.51	11.47	11.73	19.80	31.91	44.58	56.27	55.78	39.19	60.79	31.00



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	11.08	11.33	18.72	12.08	12.85	21.65	33.89	45.89	56.97	56.14	39.22	60.61	31.70
2040 Net Cumulative Demands (CFS)	10.92	11.11	18.51	11.47	11.73	19.80	31.91	44.58	56.27	55.78	39.19	60.79	31.00



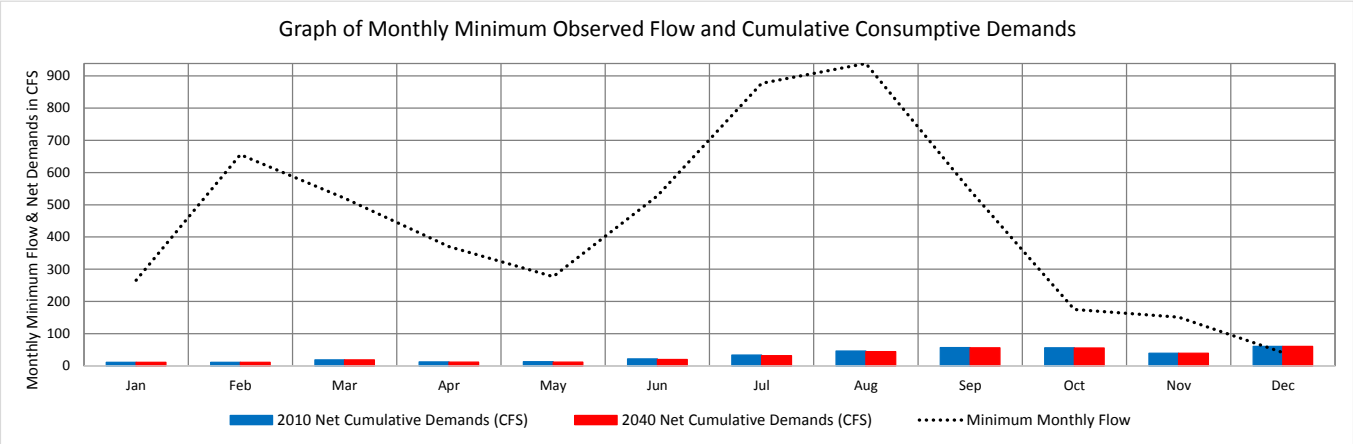
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086	1,907
Median (CFS)	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639	1,964
10th Percentile (CFS)	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604	1,072
Minimum (CFS)	266	655	520	370	277	528	877	938	545	175	152	41	717

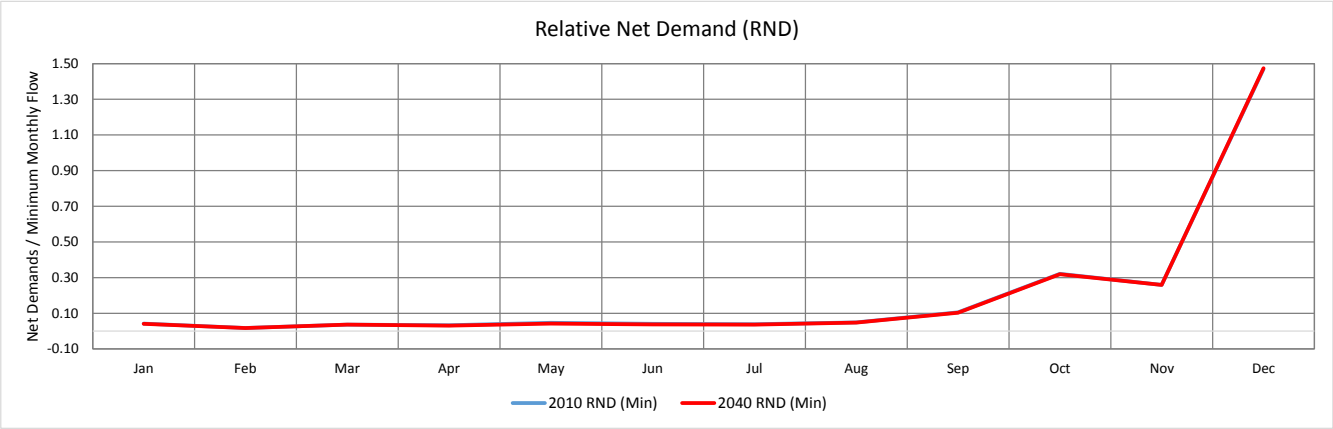
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160110 Name: Sipsey Fork Subbasin

Drainage Area: 1,010 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	11.08	11.33	18.72	12.08	12.85	21.65	33.89	45.89	56.97	56.14	39.22	60.61	31.70
2040 Net Cumulative Demands (CFS)	10.92	11.11	18.51	11.47	11.73	19.80	31.91	44.58	56.27	55.78	39.19	60.79	31.00

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086	1,907
Median (CFS)	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639	1,964
10th Percentile (CFS)	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604	1,072
Minimum (CFS)	266	655	520	370	277	528	877	938	545	175	152	41	717

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.04	0.02	0.04	0.03	0.05	0.04	0.04	0.05	0.10	0.32	0.26	1.47	0.04
2040 RND (Min)	0.04	0.02	0.04	0.03	0.04	0.04	0.04	0.05	0.10	0.32	0.26	1.47	0.04

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

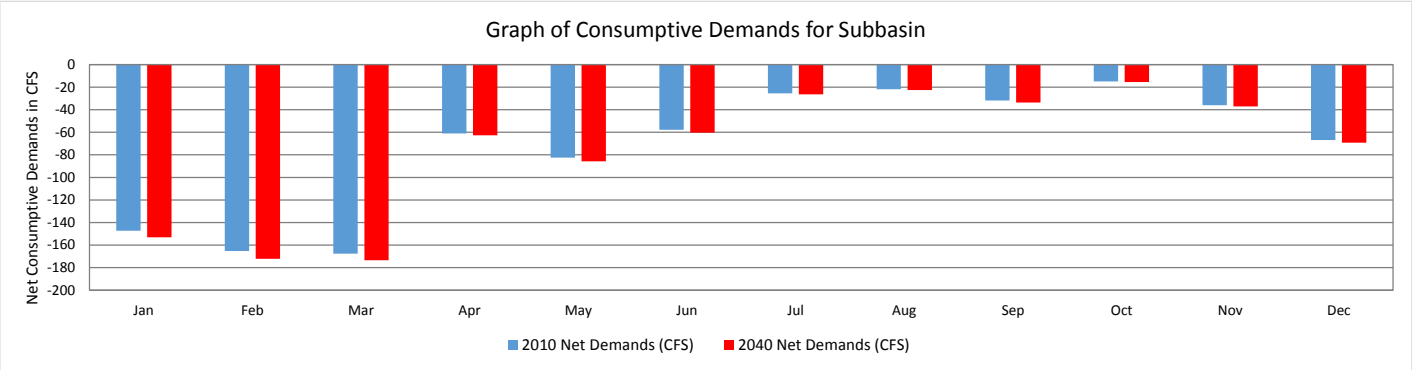
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.01	0.00	0.01	0.02	0.02	0.04	0.05	0.06	0.03	0.03	0.02
2040 RND (Avg)	0.00	0.00	0.01	0.00	0.01	0.01	0.02	0.04	0.05	0.06	0.03	0.03	0.02

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

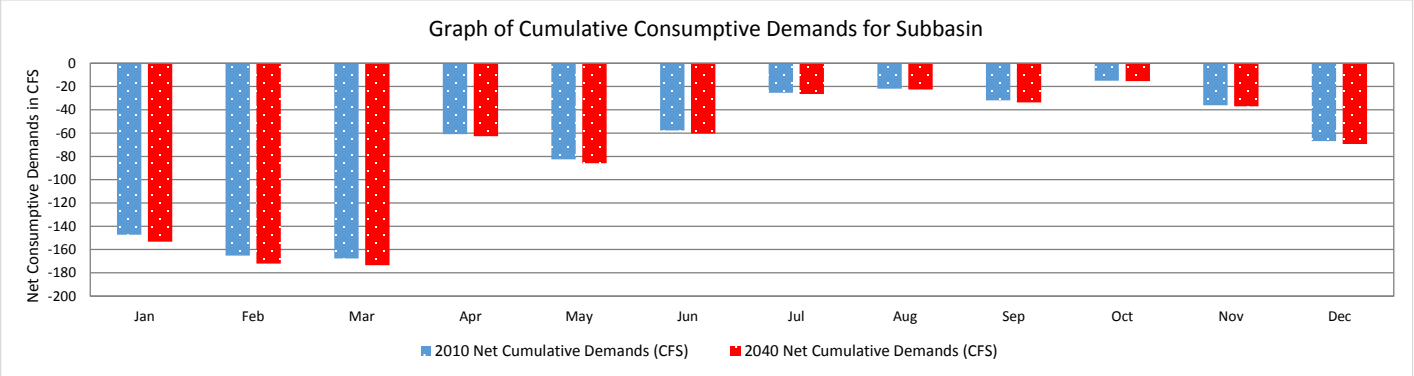
Subbasin Flows and Consumptive Demands

Subbasin #: 03160111 Name: Locust Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,210 square miles

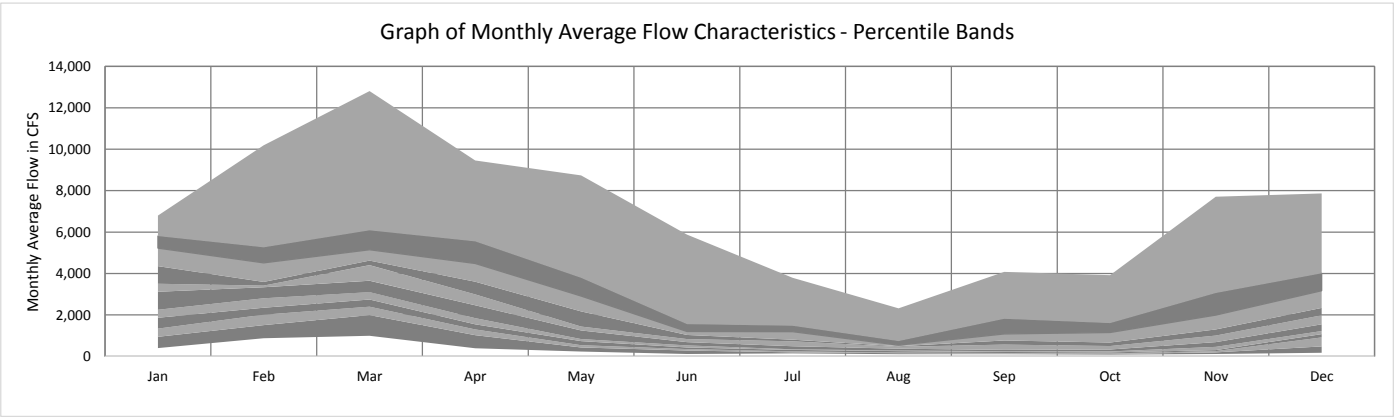
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-147.27	-165.23	-167.61	-60.98	-82.55	-57.74	-25.41	-21.78	-31.86	-14.97	-36.06	-66.83	-73.19
2040 Net Demands (CFS)	-153.17	-172.14	-173.51	-62.64	-85.83	-60.30	-26.45	-22.62	-33.55	-15.40	-37.01	-69.28	-75.99



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-147.27	-165.23	-167.61	-60.98	-82.55	-57.74	-25.41	-21.78	-31.86	-14.97	-36.06	-66.83	-73.19
2040 Net Cumulative Demands (CFS)	-153.17	-172.14	-173.51	-62.64	-85.83	-60.30	-26.45	-22.62	-33.55	-15.40	-37.01	-69.28	-75.99



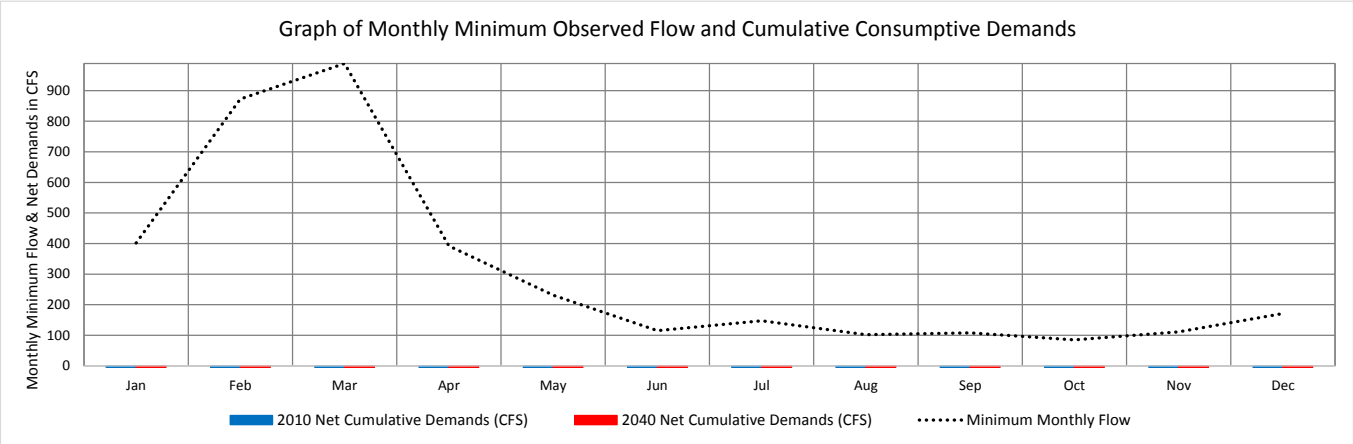
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051	1,853
Median (CFS)	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550	1,829
10th Percentile (CFS)	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483	1,117
Minimum (CFS)	402	872	989	392	231	115	147	102	108	85	111	171	519

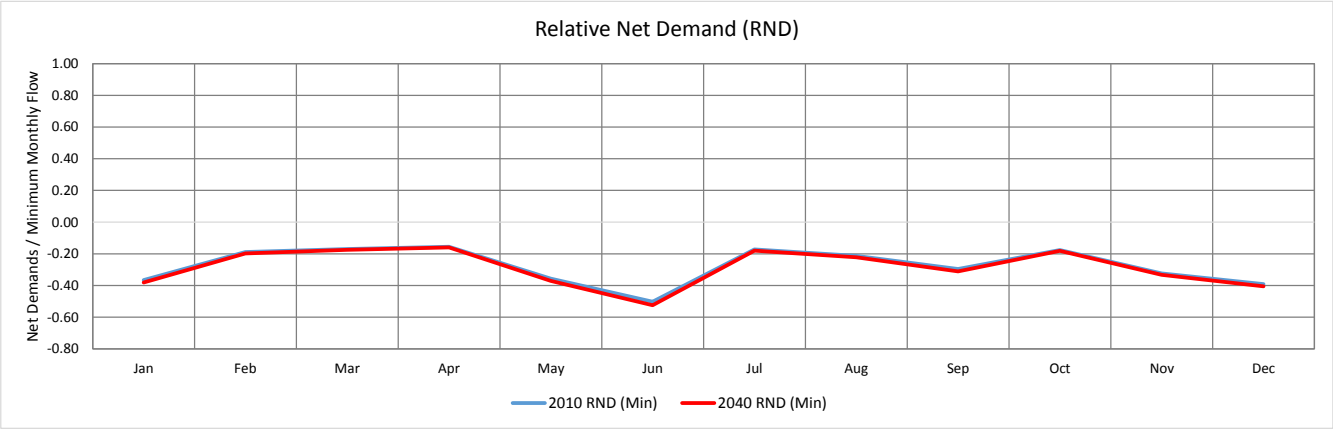
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160111 Name: Locust Fork Subbasin

Drainage Area: 1,210 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-147.27	-165.23	-167.61	-60.98	-82.55	-57.74	-25.41	-21.78	-31.86	-14.97	-36.06	-66.83	-73.19
2040 Net Cumulative Demands (CFS)	-153.17	-172.14	-173.51	-62.64	-85.83	-60.30	-26.45	-22.62	-33.55	-15.40	-37.01	-69.28	-75.99

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051	1,853
Median (CFS)	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550	1,829
10th Percentile (CFS)	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483	1,117
Minimum (CFS)	402	872	989	392	231	115	147	102	108	85	111	171	519

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.37	-0.19	-0.17	-0.16	-0.36	-0.50	-0.17	-0.21	-0.30	-0.18	-0.32	-0.39	-0.14
2040 RND (Min)	-0.38	-0.20	-0.18	-0.16	-0.37	-0.52	-0.18	-0.22	-0.31	-0.18	-0.33	-0.40	-0.15

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

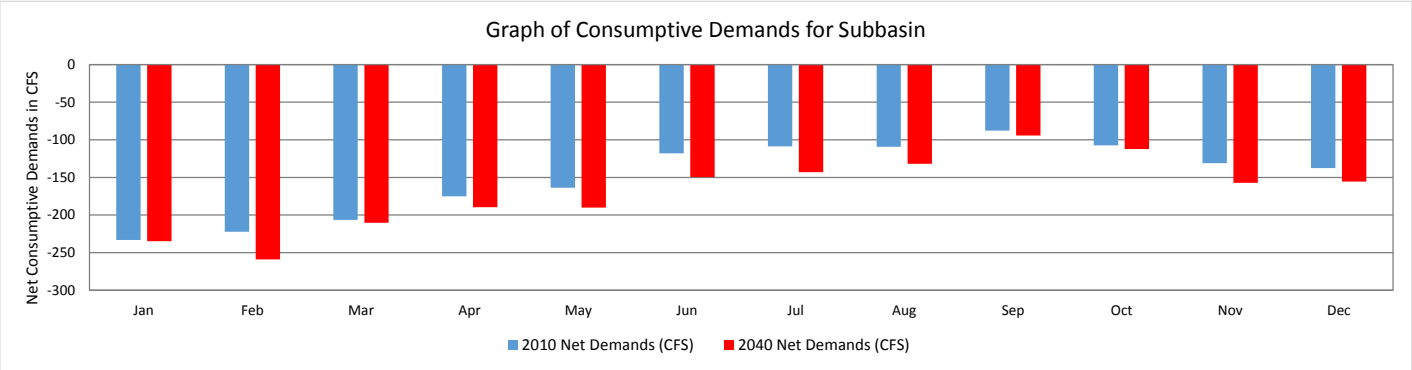
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.05	-0.05	-0.04	-0.02	-0.04	-0.06	-0.03	-0.05	-0.04	-0.02	-0.03	-0.03	-0.04
2040 RND (Avg)	-0.05	-0.05	-0.04	-0.02	-0.05	-0.06	-0.03	-0.05	-0.04	-0.02	-0.03	-0.03	-0.04

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

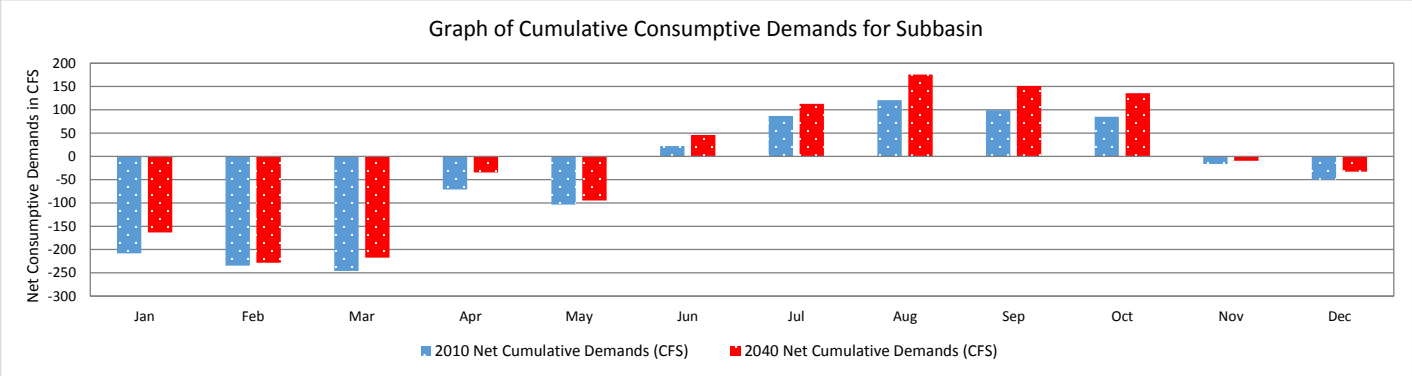
Subbasin Flows and Consumptive Demands

Subbasin #: 03160112 Name: Upper Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,820 square miles

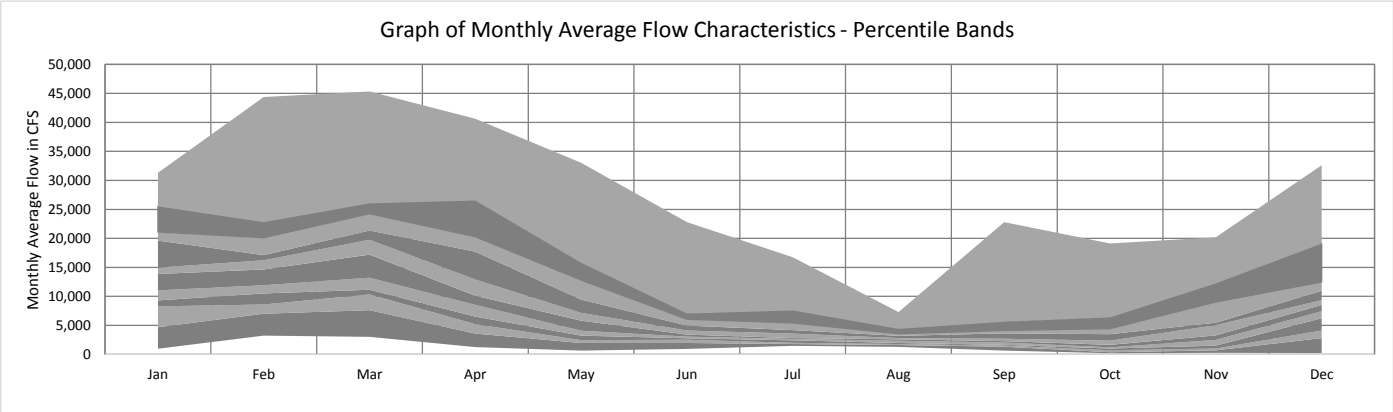
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-233.15	-222.42	-206.43	-175.23	-163.68	-118.00	-108.70	-109.31	-87.65	-107.29	-131.16	-137.48	-150.04
2040 Net Demands (CFS)	-234.73	-259.10	-210.18	-189.49	-190.06	-149.50	-143.09	-131.85	-94.38	-112.14	-157.28	-155.57	-168.95



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-208.10	-234.43	-245.92	-70.84	-103.58	22.32	86.90	120.61	99.39	85.08	-16.57	-50.04	-42.93
2040 Net Cumulative Demands (CFS)	-163.44	-228.28	-217.30	-34.33	-94.55	45.80	112.73	175.60	150.97	135.63	-9.26	-32.54	-13.25



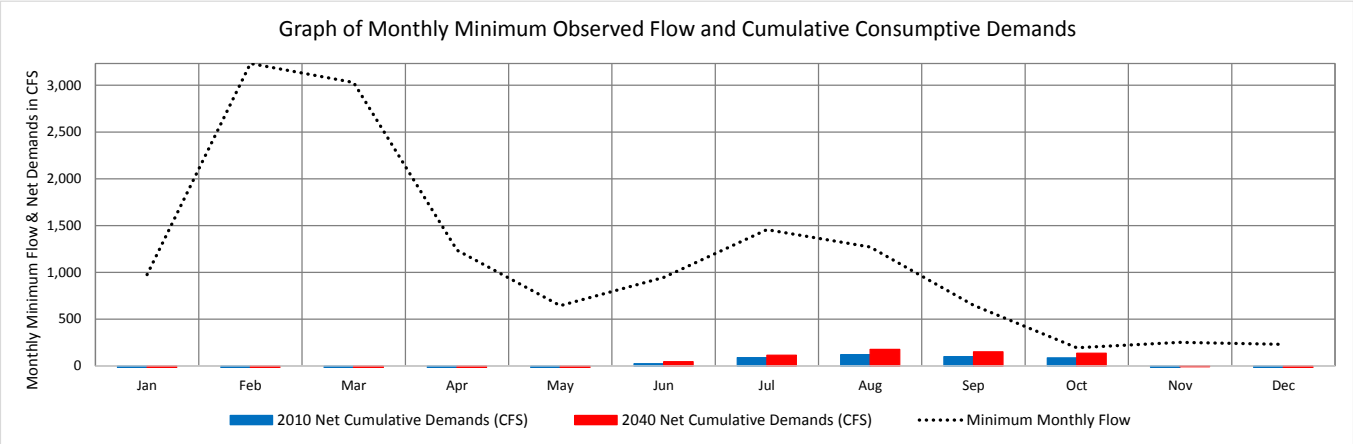
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505	8,361
Median (CFS)	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515	8,862
10th Percentile (CFS)	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811	4,487
Minimum (CFS)	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231	2,315

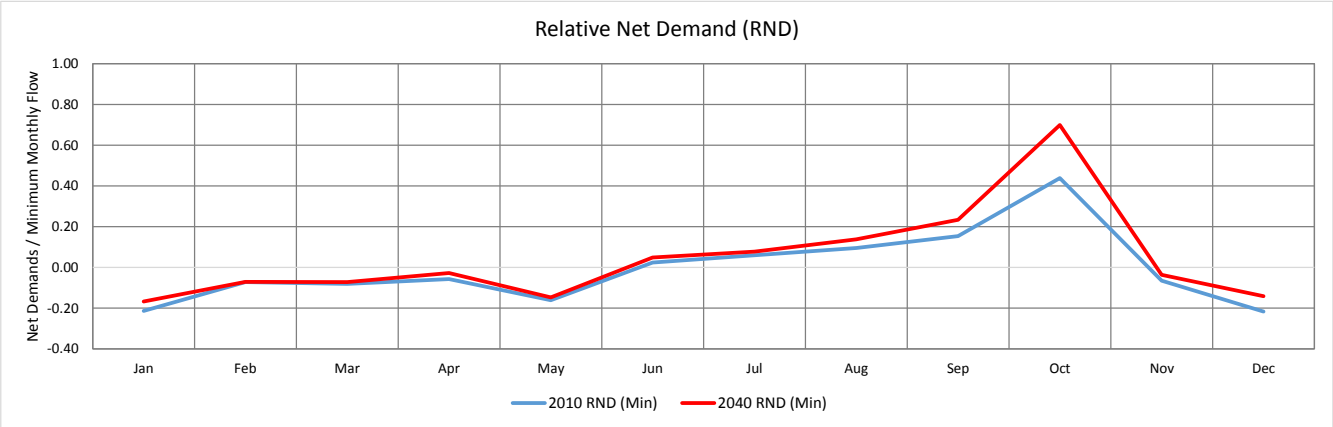
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160112 Name: Upper Black Warrior River Subbasin

Drainage Area: 4,820 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-208.10	-234.43	-245.92	-70.84	-103.58	22.32	86.90	120.61	99.39	85.08	-16.57	-50.04	-42.93
2040 Net Cumulative Demands (CFS)	-163.44	-228.28	-217.30	-34.33	-94.55	45.80	112.73	175.60	150.97	135.63	-9.26	-32.54	-13.25

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505	8,361
Median (CFS)	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515	8,862
10th Percentile (CFS)	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811	4,487
Minimum (CFS)	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231	2,315

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.21	-0.07	-0.08	-0.06	-0.16	0.02	0.06	0.09	0.15	0.44	-0.07	-0.22	-0.02
2040 RND (Min)	-0.17	-0.07	-0.07	-0.03	-0.15	0.05	0.08	0.14	0.23	0.70	-0.04	-0.14	-0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

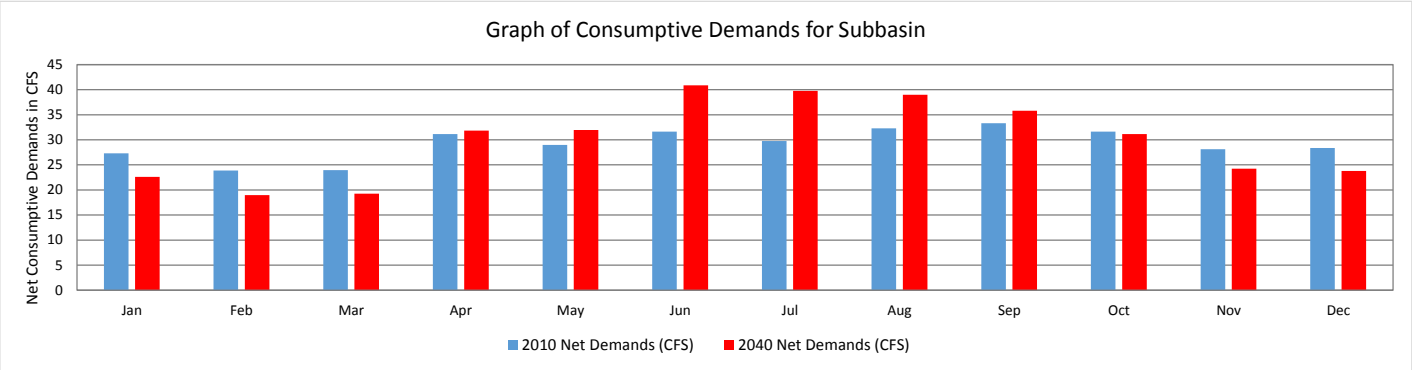
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.02	-0.01	-0.01	-0.01	0.00	0.02	0.04	0.03	0.03	0.00	-0.01	-0.01
2040 RND (Avg)	-0.01	-0.02	-0.01	0.00	-0.01	0.01	0.03	0.06	0.04	0.04	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

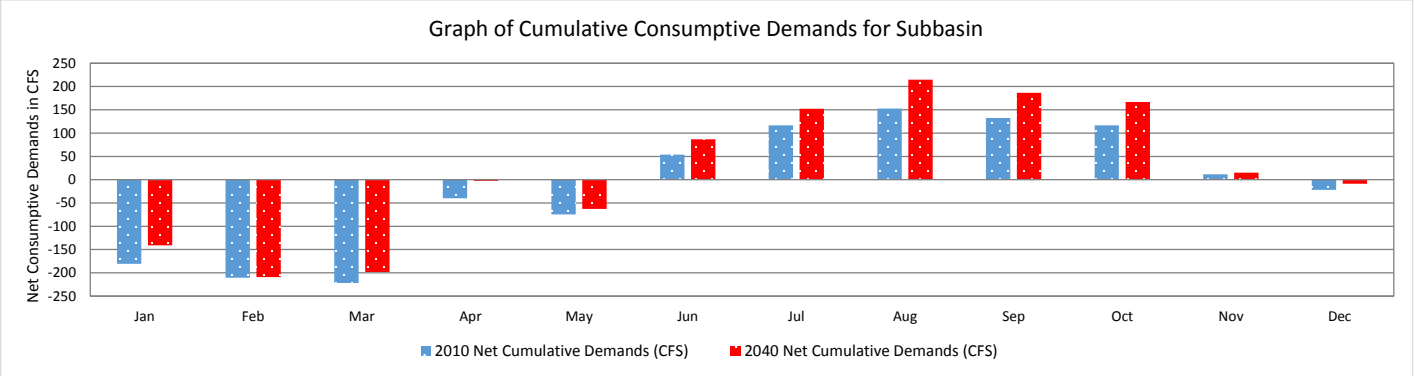
Subbasin Flows and Consumptive Demands

Subbasin #: 03160113 Name: Lower Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 6,300 square miles

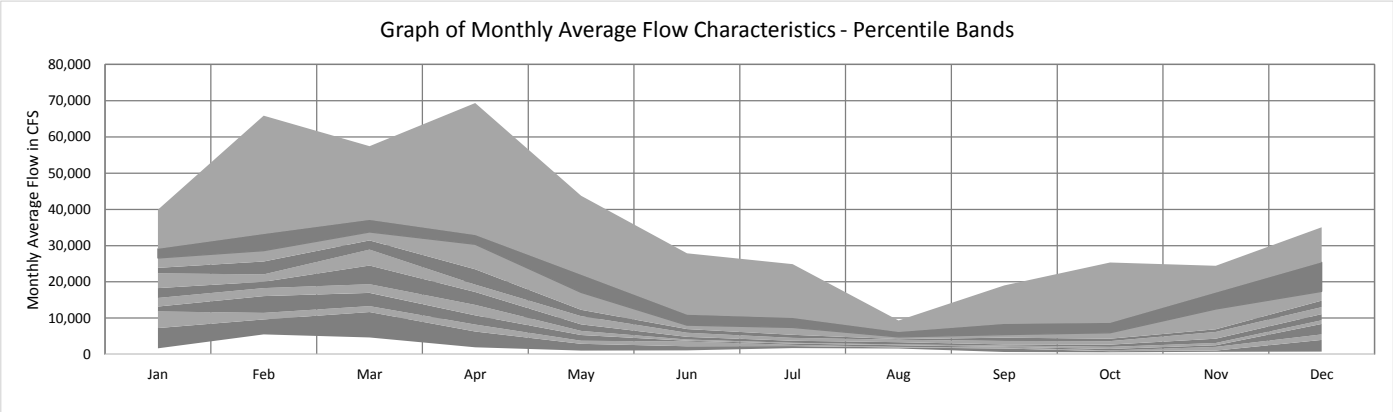
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	27.32	23.88	23.95	31.13	28.98	31.64	29.77	32.27	33.32	31.64	28.11	28.37	29.20
2040 Net Demands (CFS)	22.62	18.98	19.27	31.85	31.97	40.85	39.77	38.97	35.80	31.14	24.24	23.79	29.94



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-180.78	-210.56	-221.97	-39.71	-74.60	53.96	116.67	152.88	132.70	116.73	11.54	-21.66	-13.73
2040 Net Cumulative Demands (CFS)	-140.83	-209.30	-198.02	-2.48	-62.58	86.64	152.49	214.57	186.77	166.77	14.98	-8.75	16.69



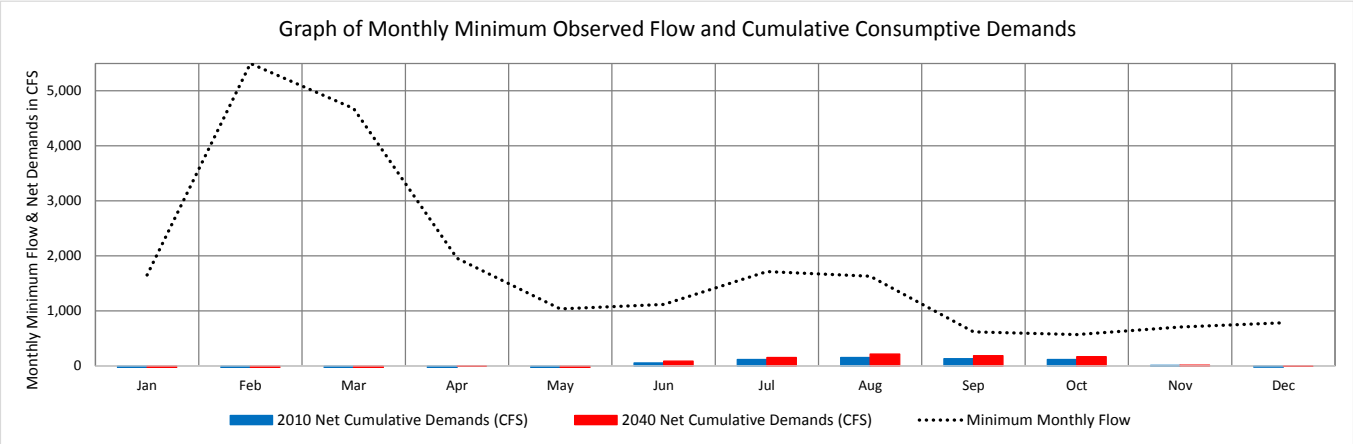
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795	11,592
Median (CFS)	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084	11,812
10th Percentile (CFS)	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956	6,140
Minimum (CFS)	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782	3,465

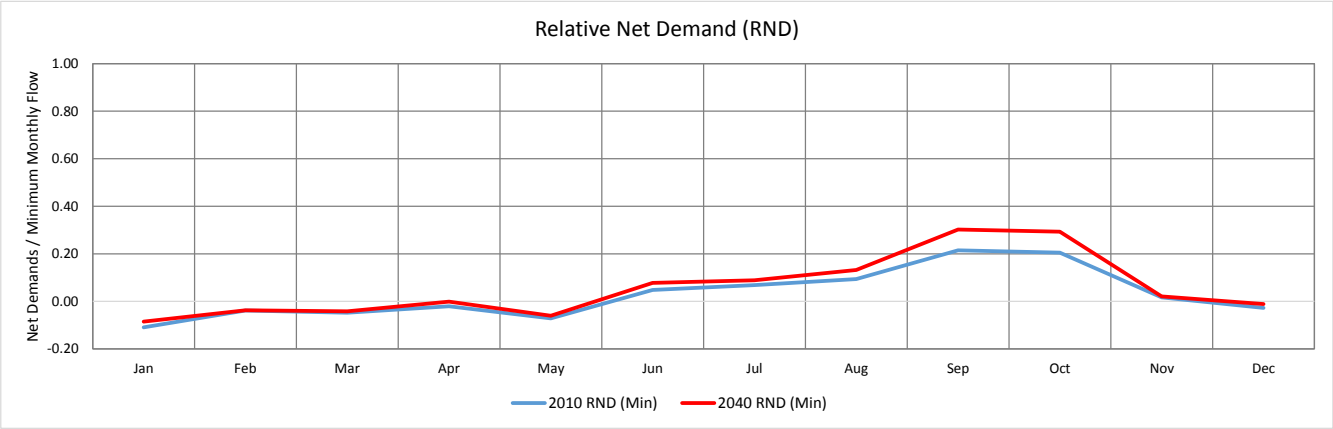
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160113 Name: Lower Black Warrior River Subbasin

Drainage Area: 6,300 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-180.78	-210.56	-221.97	-39.71	-74.60	53.96	116.67	152.88	132.70	116.73	11.54	-21.66	-13.73
2040 Net Cumulative Demands (CFS)	-140.83	-209.30	-198.02	-2.48	-62.58	86.64	152.49	214.57	186.77	166.77	14.98	-8.75	16.69

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795	11,592
Median (CFS)	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084	11,812
10th Percentile (CFS)	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956	6,140
Minimum (CFS)	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782	3,465

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.11	-0.04	-0.05	-0.02	-0.07	0.05	0.07	0.09	0.21	0.21	0.02	-0.03	0.00
2040 RND (Min)	-0.09	-0.04	-0.04	0.00	-0.06	0.08	0.09	0.13	0.30	0.29	0.02	-0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

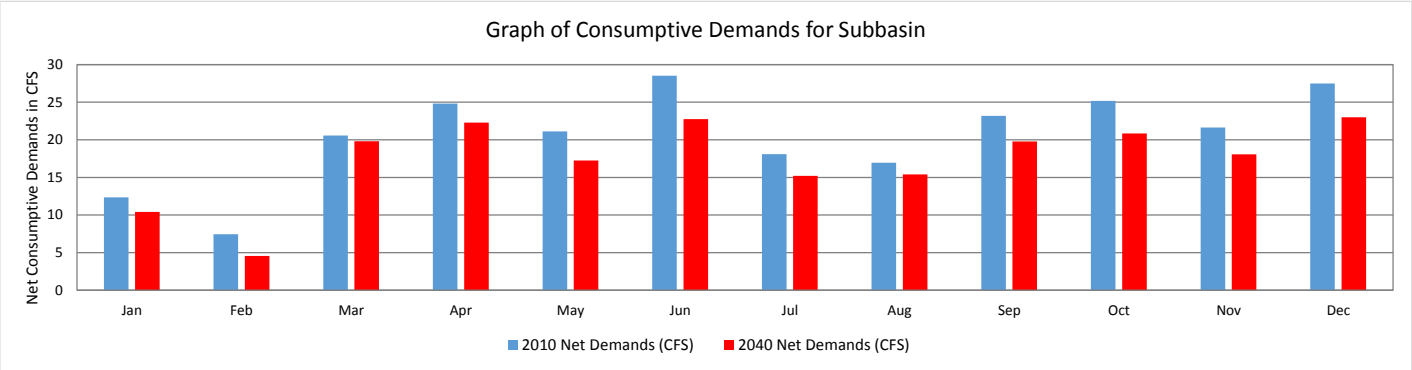
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.01	-0.01	0.00	-0.01	0.01	0.02	0.04	0.03	0.03	0.00	0.00	0.00
2040 RND (Avg)	-0.01	-0.01	-0.01	0.00	-0.01	0.01	0.03	0.06	0.04	0.04	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

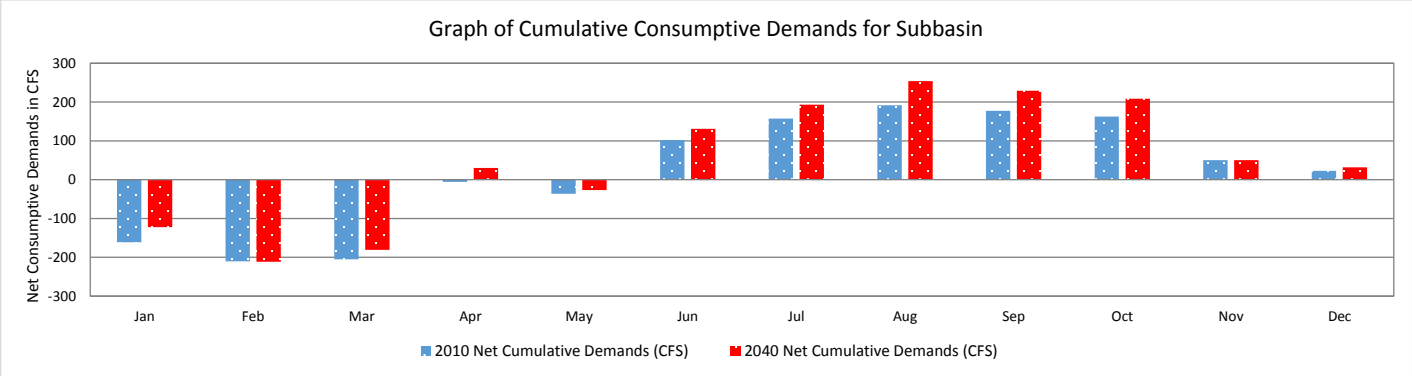
Subbasin Flows and Consumptive Demands

Subbasin #: 03160201 Name: Middle Tombigbee-Chickasaw River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 18,417 square miles

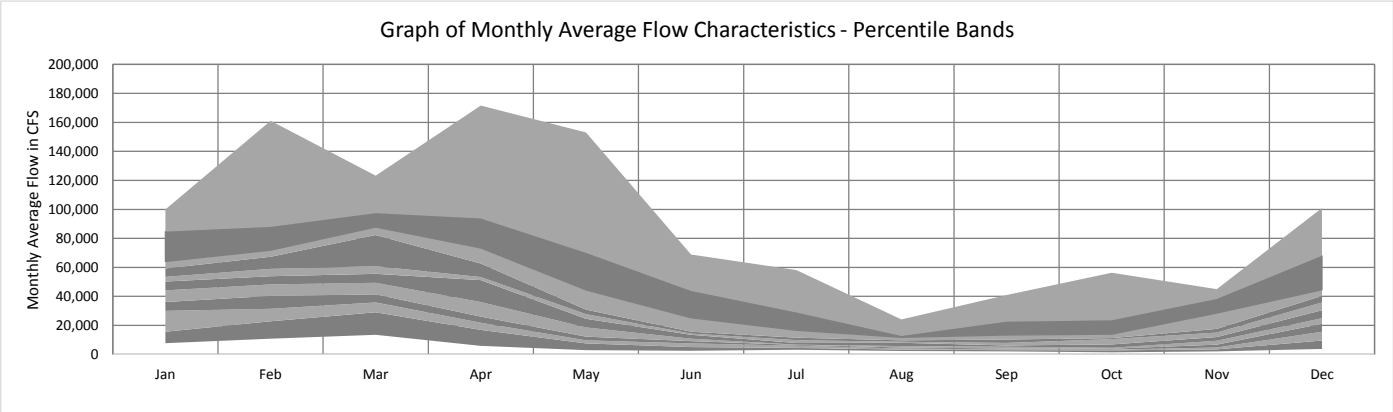
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	12.34	7.43	20.56	24.81	21.11	28.52	18.10	16.94	23.19	25.17	21.63	27.48	20.61
2040 Net Demands (CFS)	10.42	4.57	19.80	22.28	17.24	22.76	15.21	15.39	19.78	20.85	18.06	23.00	17.45



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-161.27	-210.62	-205.05	-5.59	-36.17	101.82	157.59	191.55	177.58	162.62	50.13	23.01	20.47
2040 Net Cumulative Demands (CFS)	-122.18	-211.18	-180.67	30.22	-26.50	131.26	193.27	254.04	229.33	208.71	50.03	31.82	49.01



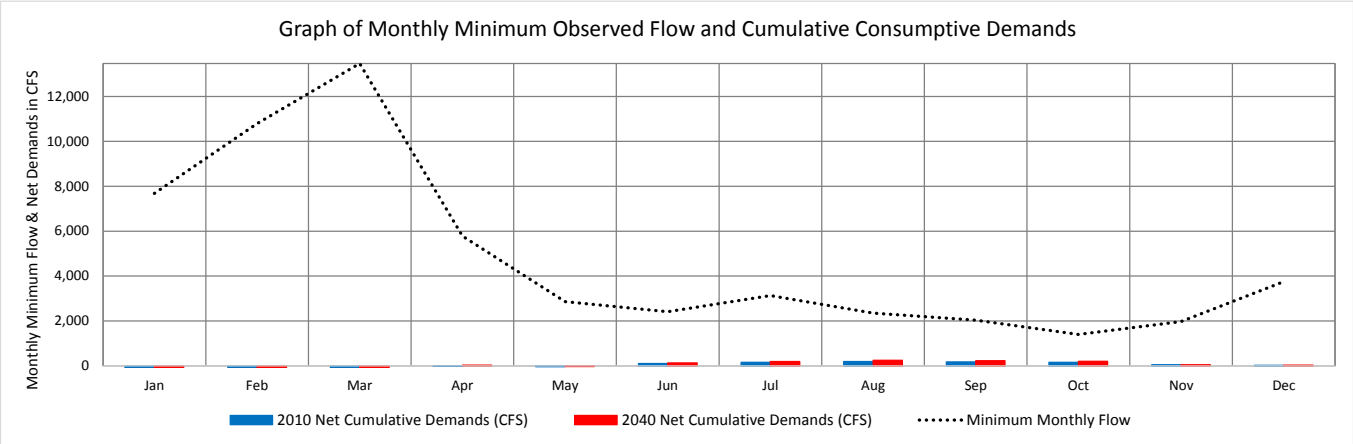
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067	29,713
Median (CFS)	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490	29,236
10th Percentile (CFS)	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535	14,984
Minimum (CFS)	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754	9,521

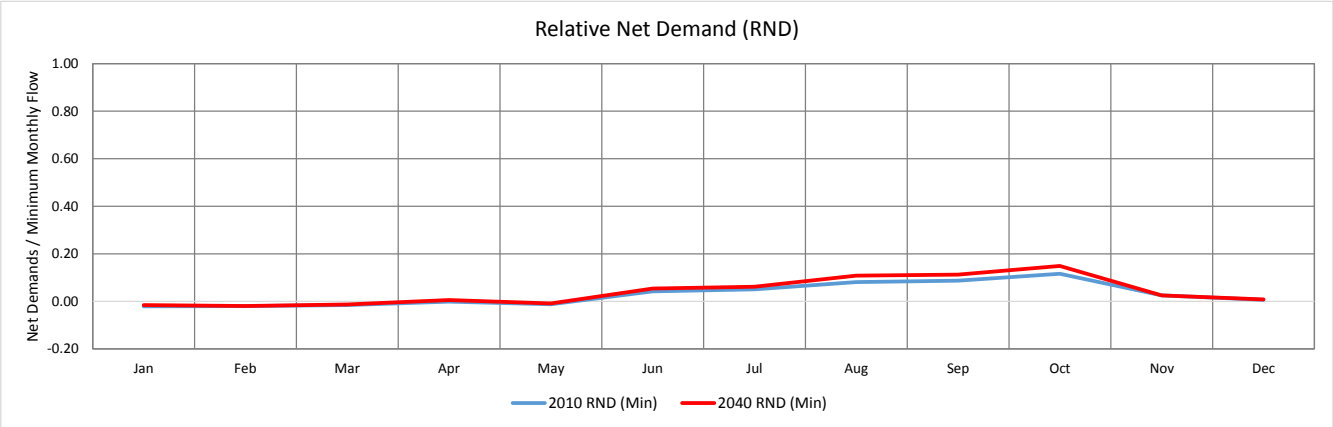
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160201 Name: Middle Tombigbee-Chickasaw River Subbasin

Drainage Area: 18,417 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-161.27	-210.62	-205.05	-5.59	-36.17	101.82	157.59	191.55	177.58	162.62	50.13	23.01	20.47
2040 Net Cumulative Demands (CFS)	-122.18	-211.18	-180.67	30.22	-26.50	131.26	193.27	254.04	229.33	208.71	50.03	31.82	49.01

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067	29,713
Median (CFS)	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490	29,236
10th Percentile (CFS)	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535	14,984
Minimum (CFS)	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754	9,521

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.02	-0.02	0.00	-0.01	0.04	0.05	0.08	0.09	0.12	0.03	0.01	0.00
2040 RND (Min)	-0.02	-0.02	-0.01	0.01	-0.01	0.05	0.06	0.11	0.11	0.15	0.03	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

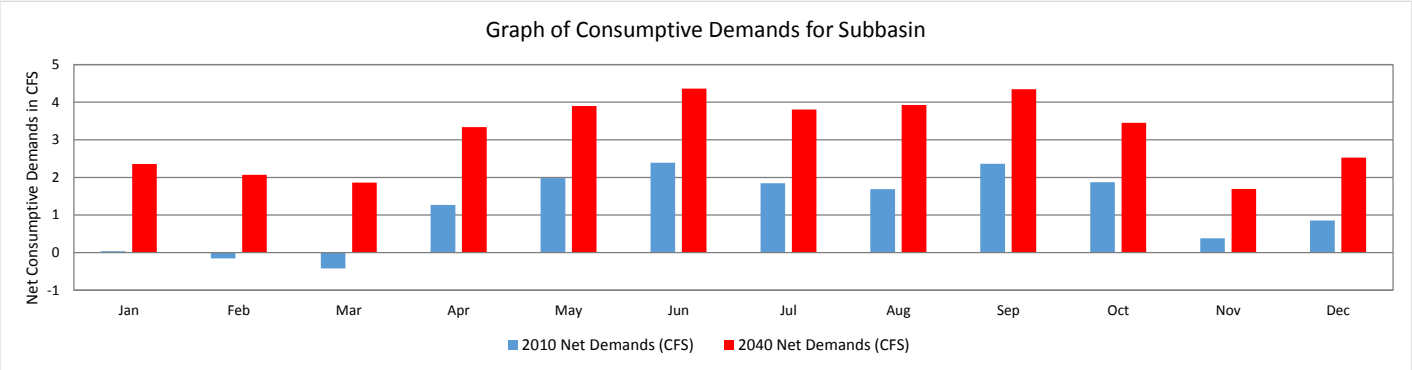
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.02	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

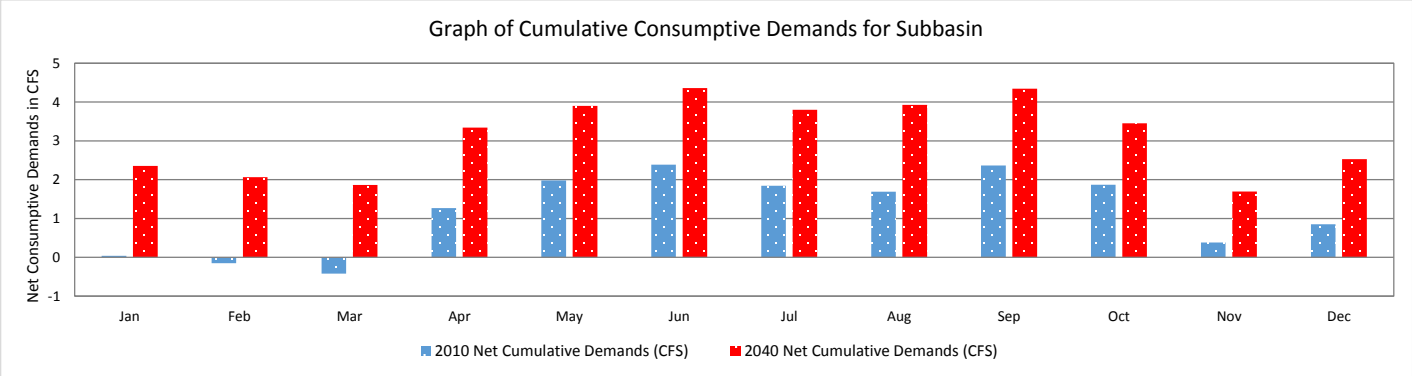
Subbasin Flows and Consumptive Demands

Subbasin #: 03160202 Name: Sucarnoochee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 956 square miles

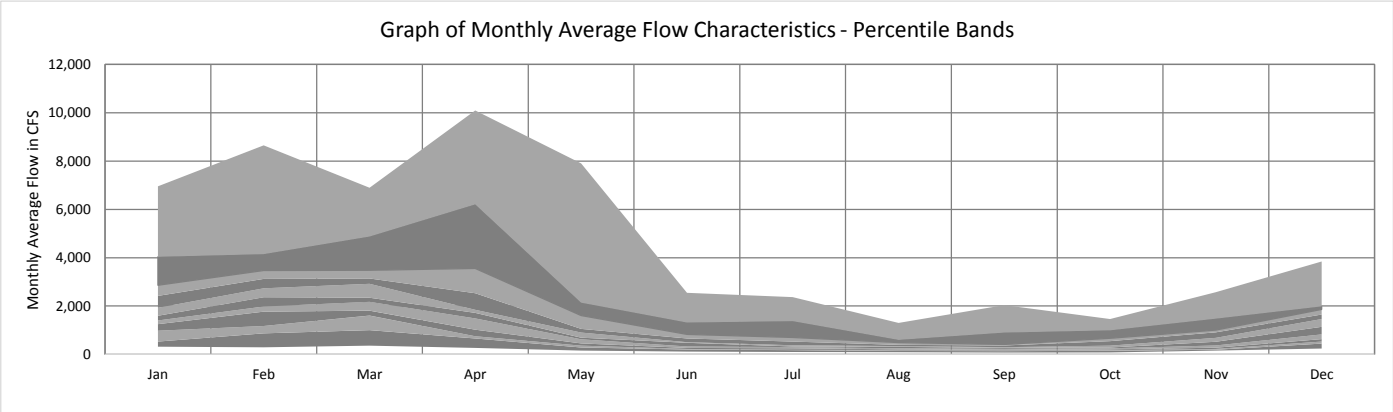
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	0.04	-0.15	-0.42	1.27	1.98	2.39	1.84	1.69	2.36	1.87	0.38	0.85	1.18
2040 Net Demands (CFS)	2.36	2.07	1.86	3.34	3.90	4.36	3.80	3.93	4.35	3.45	1.69	2.53	3.14



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.04	-0.15	-0.42	1.27	1.98	2.39	1.84	1.69	2.36	1.87	0.38	0.85	1.18
2040 Net Cumulative Demands (CFS)	2.36	2.07	1.86	3.34	3.90	4.36	3.80	3.93	4.35	3.45	1.69	2.53	3.14



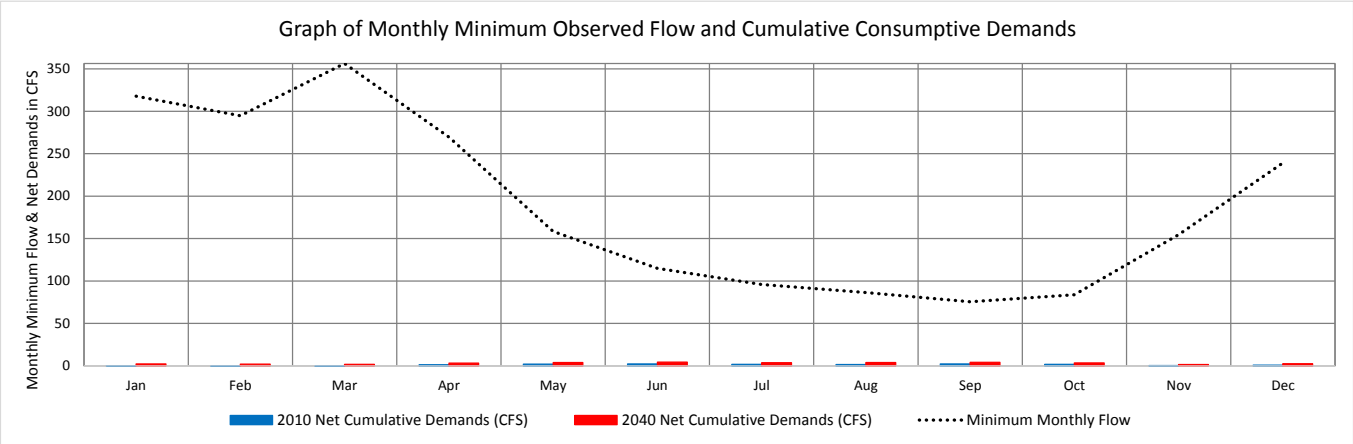
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258	1,273
Median (CFS)	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143	1,229
10th Percentile (CFS)	526	870	1,001	660	286	201	173	140	131	151	193	445	694
Minimum (CFS)	318	295	356	270	158	115	96	87	76	84	155	239	345

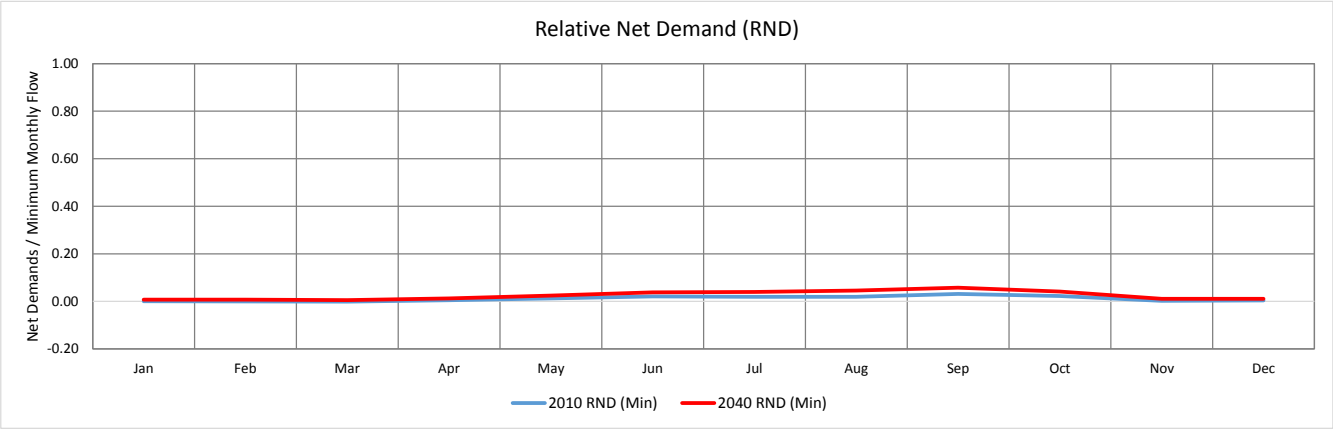
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160202 Name: Sucarnoochee River Subbasin

Drainage Area: 956 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	0.04	-0.15	-0.42	1.27	1.98	2.39	1.84	1.69	2.36	1.87	0.38	0.85	1.18
2040 Net Cumulative Demands (CFS)	2.36	2.07	1.86	3.34	3.90	4.36	3.80	3.93	4.35	3.45	1.69	2.53	3.14

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258	1,273
Median (CFS)	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143	1,229
10th Percentile (CFS)	526	870	1,001	660	286	201	173	140	131	151	193	445	694
Minimum (CFS)	318	295	356	270	158	115	96	87	76	84	155	239	345

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.03	0.02	0.00	0.00	0.00
2040 RND (Min)	0.01	0.01	0.01	0.01	0.02	0.04	0.04	0.05	0.06	0.04	0.01	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

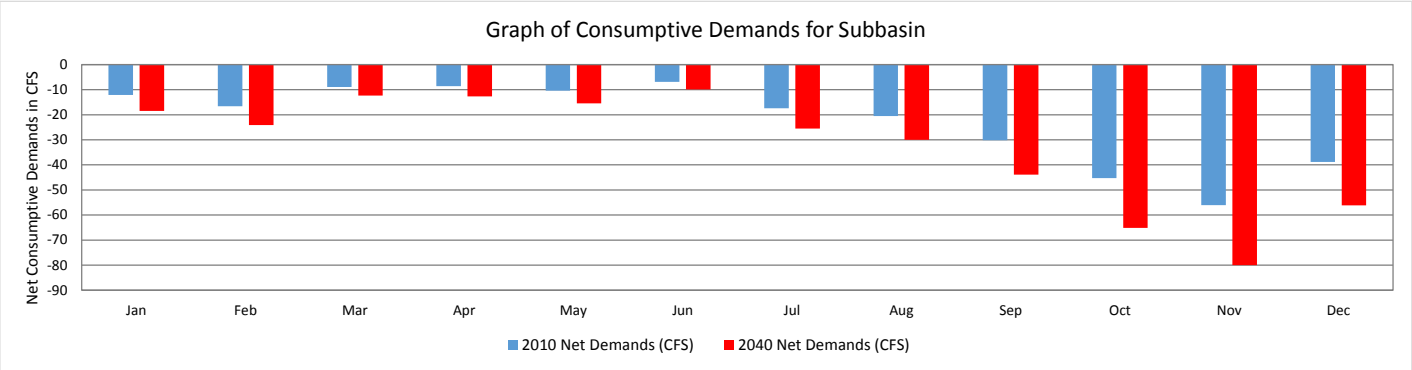
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

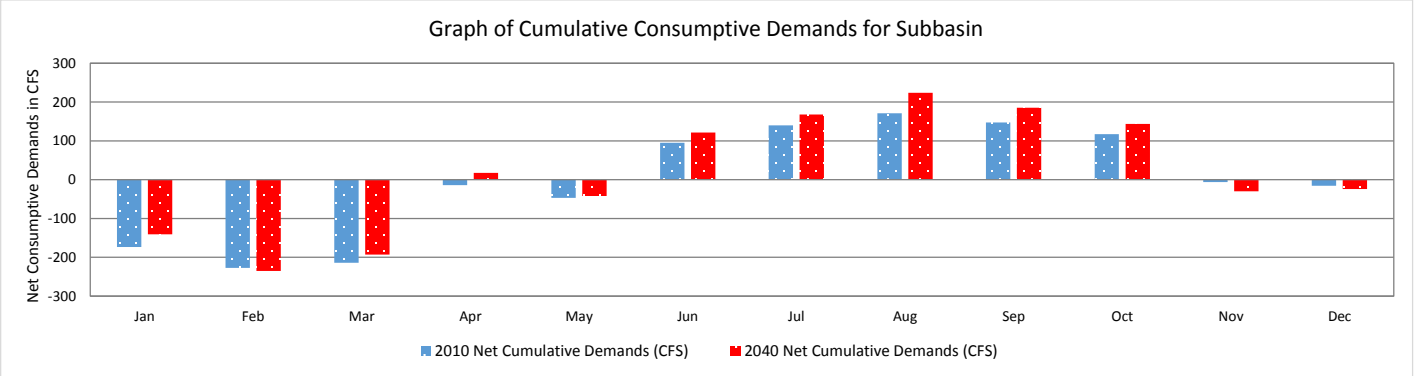
Subbasin Flows and Consumptive Demands

Subbasin #: 03160203 Name: Lower Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 20,057 square miles

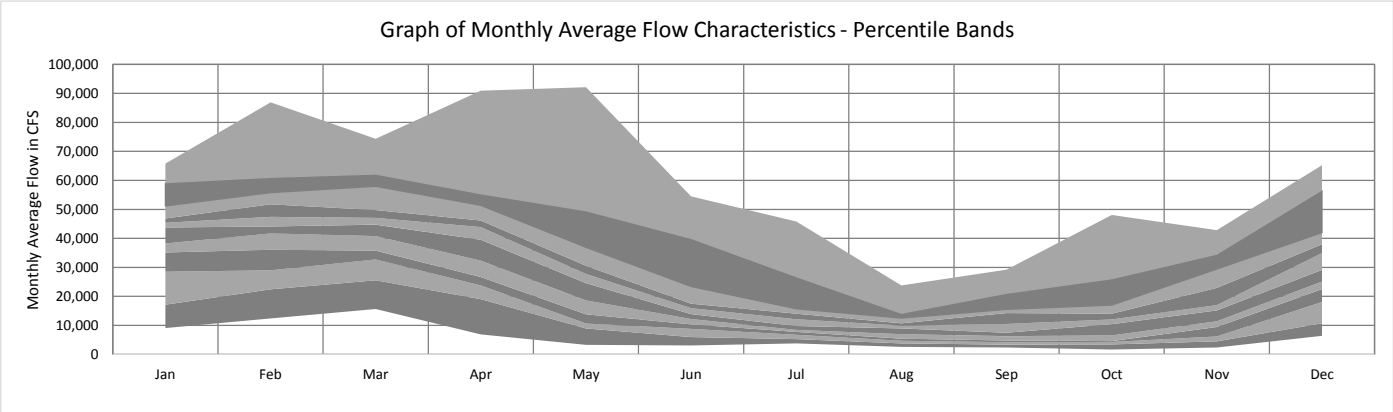
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-12.10	-16.62	-8.95	-8.57	-10.42	-6.87	-17.39	-20.54	-30.18	-45.25	-56.08	-38.82	-22.65
2040 Net Demands (CFS)	-18.51	-24.14	-12.34	-12.66	-15.46	-9.88	-25.54	-29.98	-43.92	-65.11	-79.99	-56.16	-32.81



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-173.37	-227.24	-214.00	-14.16	-46.59	94.96	140.20	171.01	147.40	117.37	-5.95	-15.80	-2.18
2040 Net Cumulative Demands (CFS)	-140.69	-235.32	-193.01	17.56	-41.96	121.38	167.73	224.05	185.41	143.61	-29.96	-24.34	16.20



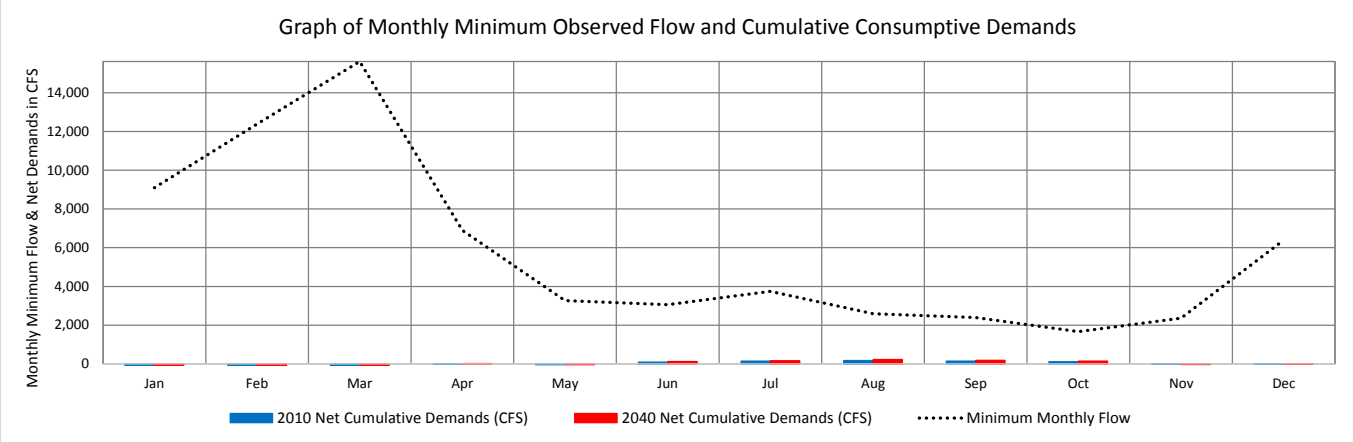
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505	25,300
Median (CFS)	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146	25,491
10th Percentile (CFS)	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685	15,147
Minimum (CFS)	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392	11,138

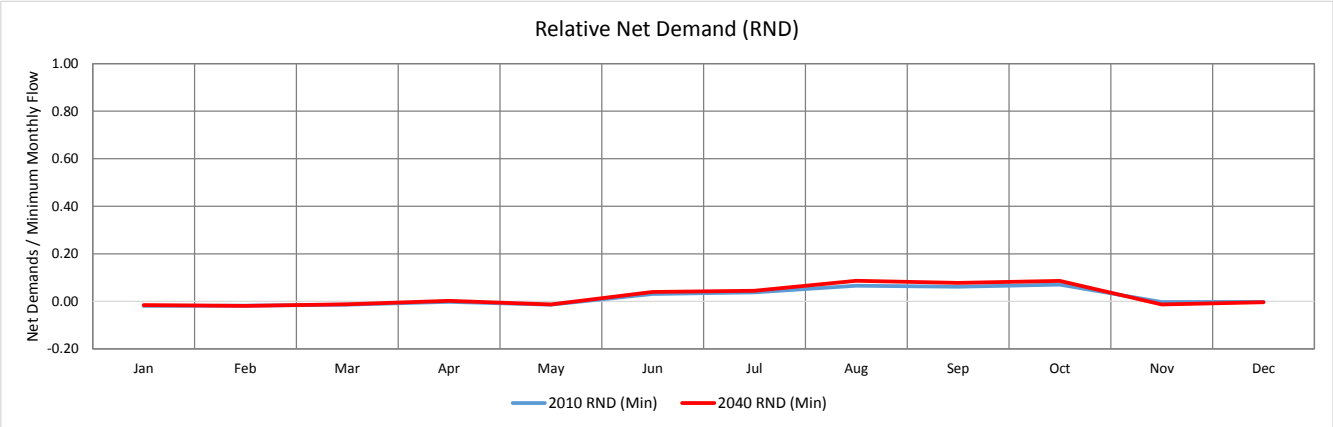
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160203 Name: Lower Tombigbee River Subbasin

Drainage Area: 20,057 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-173.37	-227.24	-214.00	-14.16	-46.59	94.96	140.20	171.01	147.40	117.37	-5.95	-15.80	-2.18
2040 Net Cumulative Demands (CFS)	-140.69	-235.32	-193.01	17.56	-41.96	121.38	167.73	224.05	185.41	143.61	-29.96	-24.34	16.20

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505	25,300
Median (CFS)	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146	25,491
10th Percentile (CFS)	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685	15,147
Minimum (CFS)	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392	11,138

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.02	-0.01	0.00	-0.01	0.03	0.04	0.07	0.06	0.07	0.00	0.00	0.00
2040 RND (Min)	-0.02	-0.02	-0.01	0.00	-0.01	0.04	0.04	0.09	0.08	0.09	-0.01	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

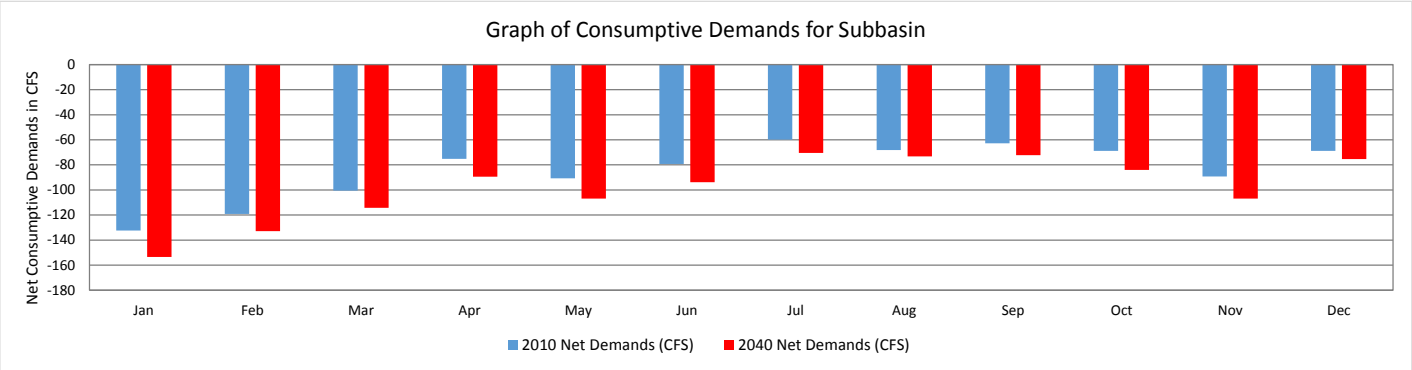
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	-0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	-0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

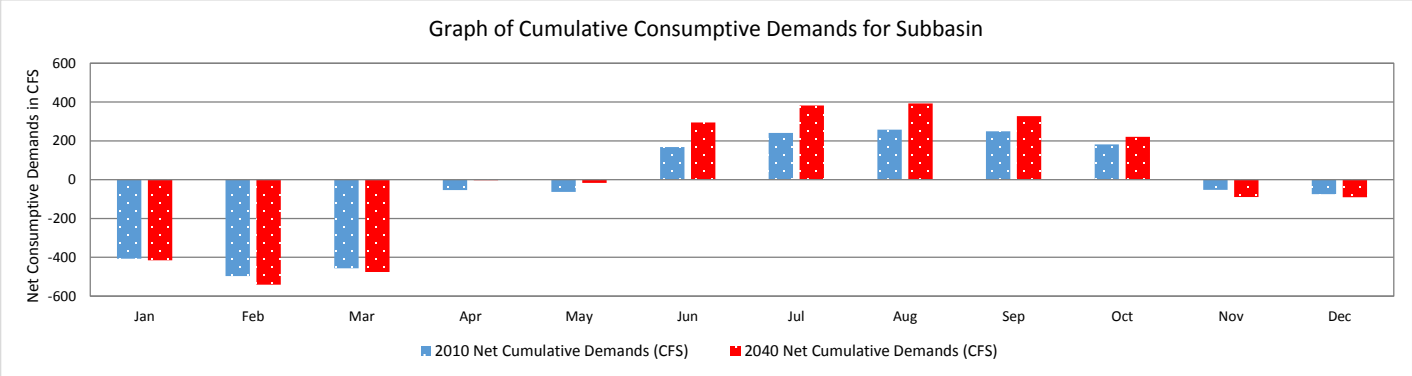
Subbasin Flows and Consumptive Demands

Subbasin #: 03160204 Name: Mobile-Tensaw Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 43,000 square miles

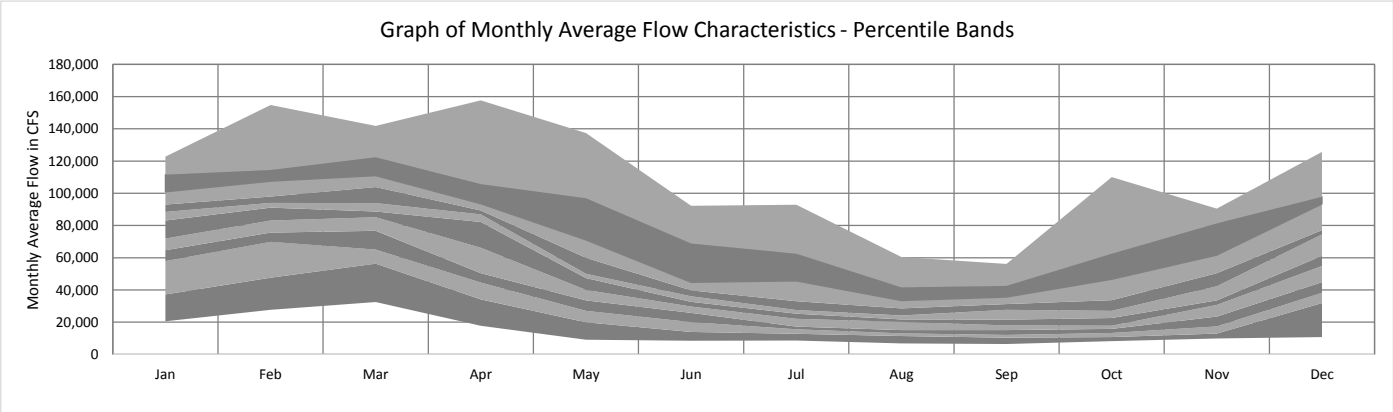
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-132.41	-119.24	-100.45	-75.28	-90.78	-79.26	-59.86	-68.17	-62.78	-68.83	-89.34	-68.83	-84.60
2040 Net Demands (CFS)	-153.40	-132.87	-114.18	-89.49	-106.97	-93.75	-70.54	-73.26	-72.28	-84.03	-106.93	-75.42	-97.76



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-407.18	-496.63	-457.02	-53.26	-62.94	167.62	241.29	257.62	248.94	181.31	-52.37	-74.30	-42.24
2040 Net Cumulative Demands (CFS)	-415.46	-541.21	-475.49	-3.29	-16.60	294.79	382.68	392.66	327.08	221.34	-89.59	-90.15	-1.10



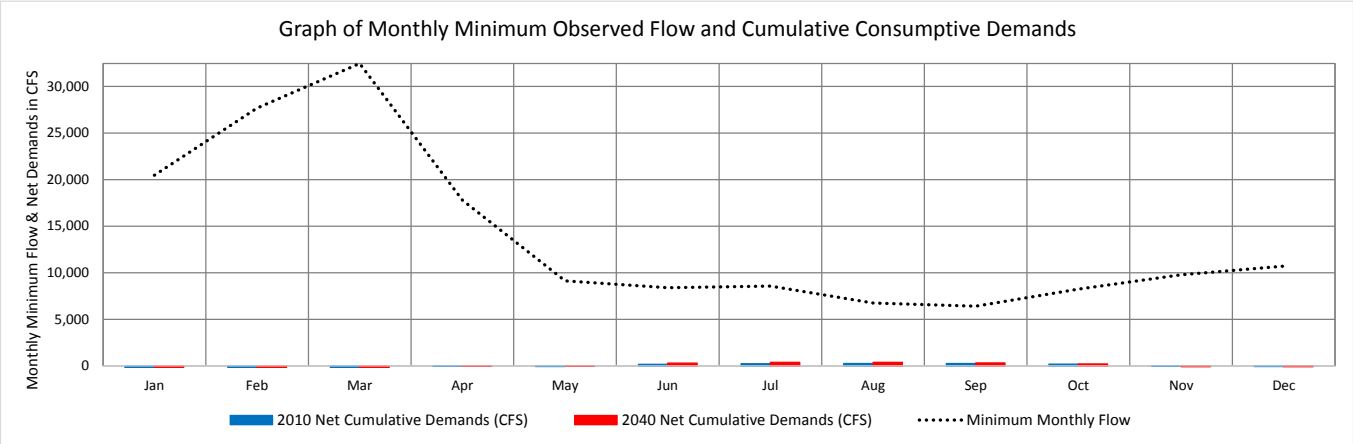
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819	52,588
Median (CFS)	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236	55,166
10th Percentile (CFS)	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819	33,112
Minimum (CFS)	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706	21,408

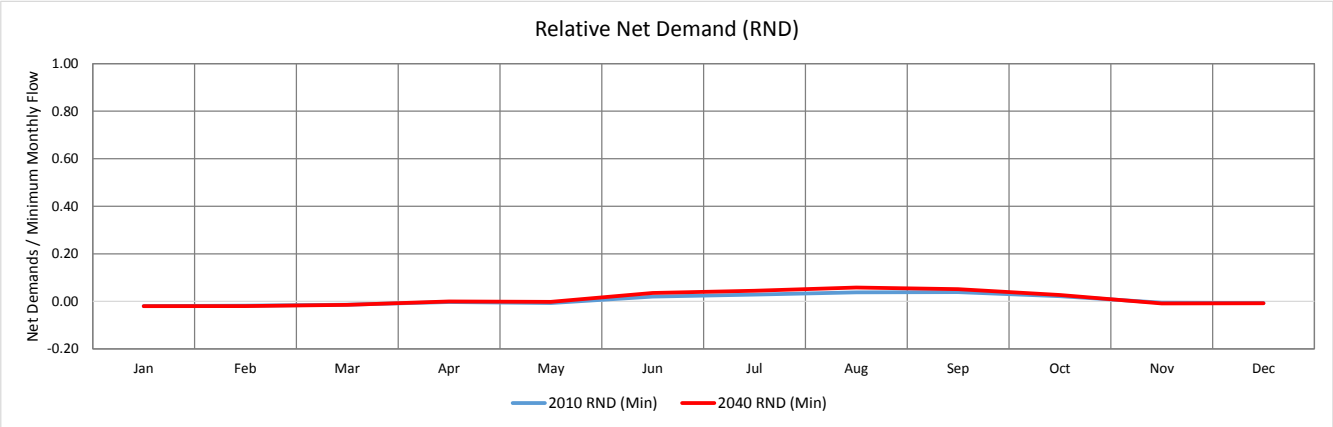
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03160204 Name: Mobile-Tensaw Subbasin

Drainage Area: 43,000 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-407.18	-496.63	-457.02	-53.26	-62.94	167.62	241.29	257.62	248.94	181.31	-52.37	-74.30	-42.24
2040 Net Cumulative Demands (CFS)	-415.46	-541.21	-475.49	-3.29	-16.60	294.79	382.68	392.66	327.08	221.34	-89.59	-90.15	-1.10

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819	52,588
Median (CFS)	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236	55,166
10th Percentile (CFS)	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819	33,112
Minimum (CFS)	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706	21,408

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	-0.02	-0.02	-0.01	0.00	-0.01	0.02	0.03	0.04	0.04	0.02	-0.01	-0.01	0.00
2040 RND (Min)	-0.02	-0.02	-0.01	0.00	0.00	0.04	0.04	0.06	0.05	0.03	-0.01	-0.01	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

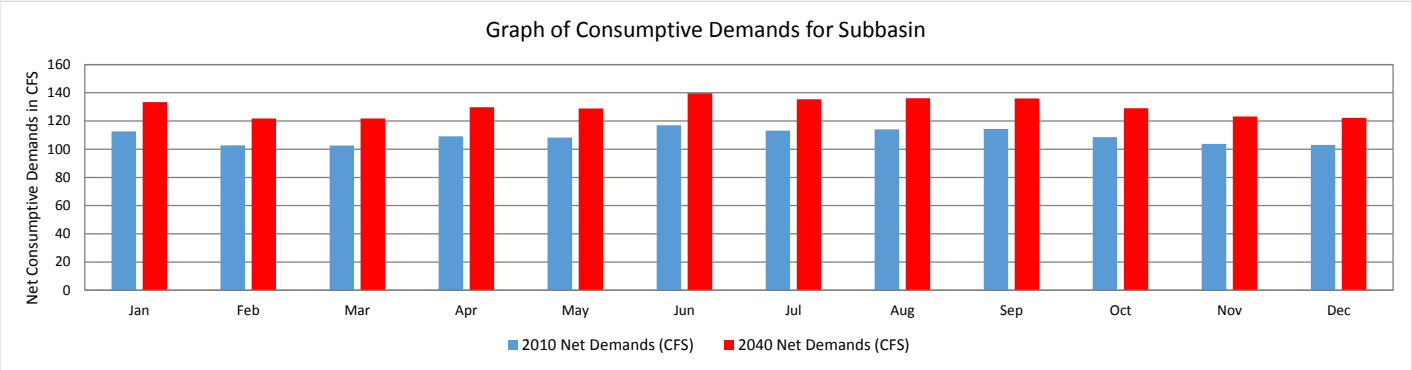
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

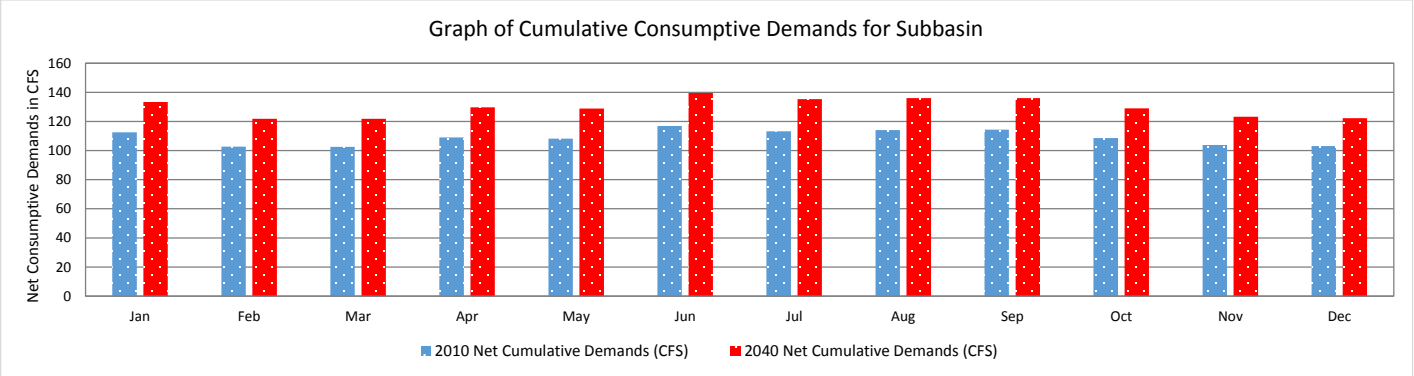
Subbasin Flows and Consumptive Demands

Subbasin #: 03170008 Name: Escatawpa River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 767 square miles

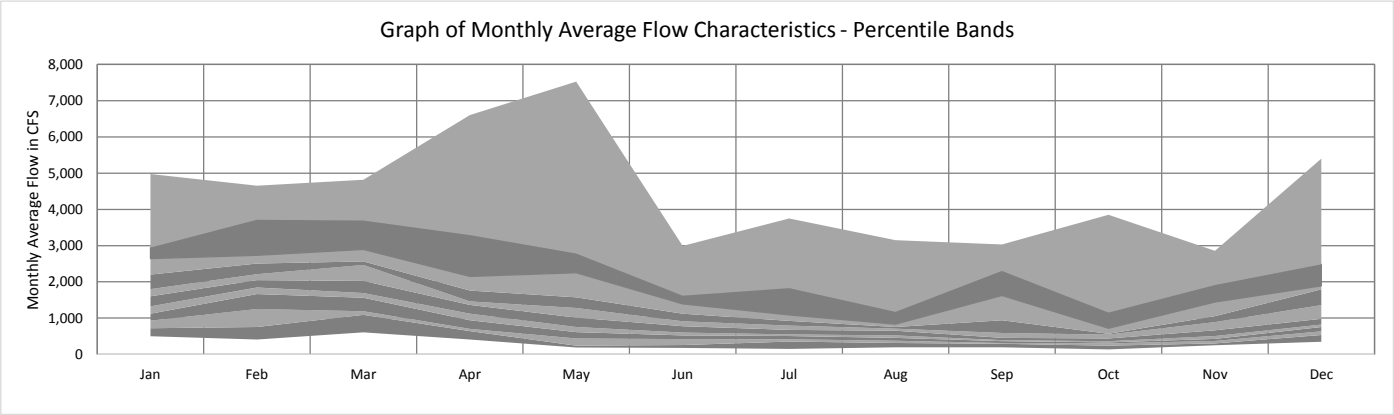
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	112.55	102.75	102.58	109.09	108.21	116.97	113.26	114.14	114.40	108.59	103.79	103.09	109.12
2040 Net Demands (CFS)	133.36	121.81	121.81	129.77	128.85	139.57	135.36	136.08	136.04	129.04	123.22	122.22	129.76



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	112.55	102.75	102.58	109.09	108.21	116.97	113.26	114.14	114.40	108.59	103.79	103.09	109.12
2040 Net Cumulative Demands (CFS)	133.36	121.81	121.81	129.77	128.85	139.57	135.36	136.08	136.04	129.04	123.22	122.22	129.76



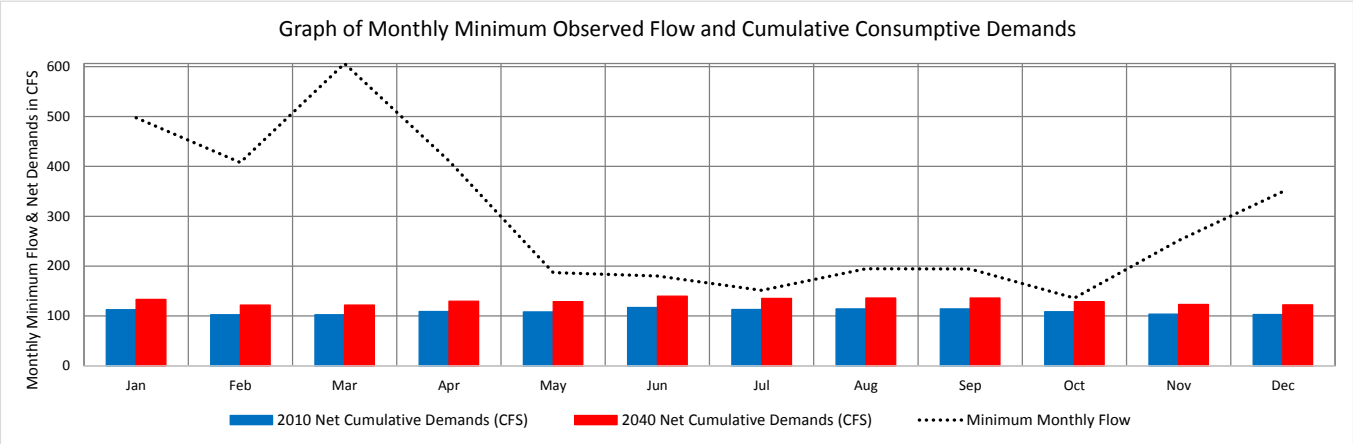
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350	1,302
Median (CFS)	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981	1,235
10th Percentile (CFS)	721	754	1,090	642	240	256	350	313	292	242	299	535	814
Minimum (CFS)	497	408	606	411	187	180	152	195	194	136	251	349	400

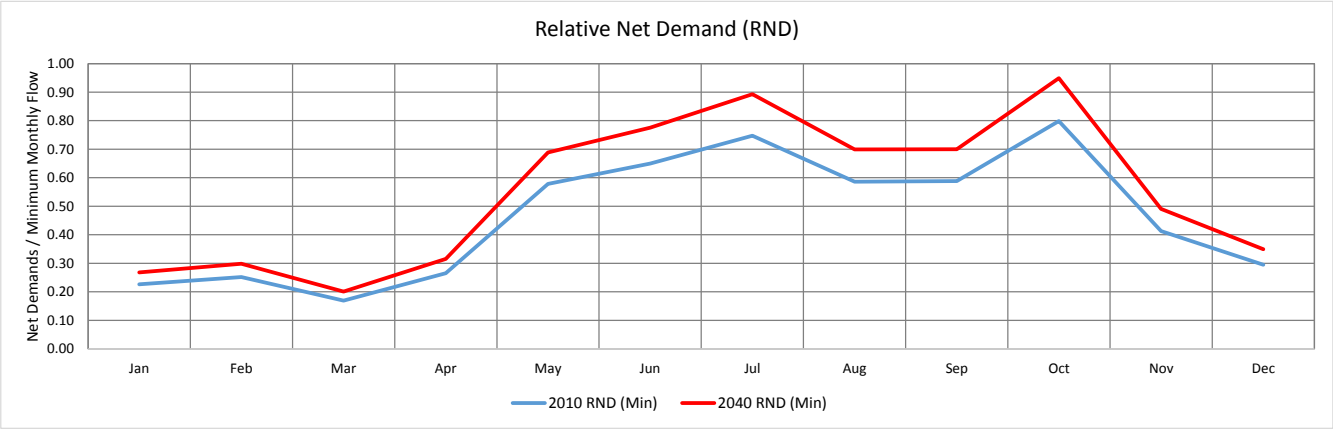
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 03170008 Name: Escatawpa River Subbasin in Alabama

Drainage Area: 767 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	112.55	102.75	102.58	109.09	108.21	116.97	113.26	114.14	114.40	108.59	103.79	103.09	109.12
2040 Net Cumulative Demands (CFS)	133.36	121.81	121.81	129.77	128.85	139.57	135.36	136.08	136.04	129.04	123.22	122.22	129.76

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350	1,302
Median (CFS)	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981	1,235
10th Percentile (CFS)	721	754	1,090	642	240	256	350	313	292	242	299	535	814
Minimum (CFS)	497	408	606	411	187	180	152	195	194	136	251	349	400

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.23	0.25	0.17	0.27	0.58	0.65	0.75	0.59	0.59	0.80	0.41	0.29	0.27
2040 RND (Min)	0.27	0.30	0.20	0.32	0.69	0.78	0.89	0.70	0.70	0.95	0.49	0.35	0.32

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

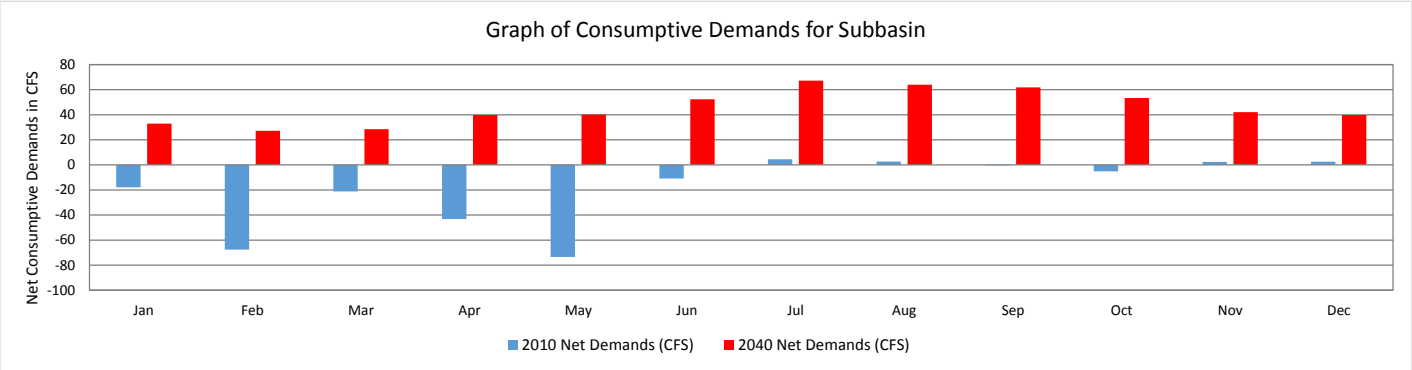
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.06	0.05	0.05	0.06	0.08	0.13	0.12	0.15	0.13	0.16	0.11	0.08	0.08
2040 RND (Avg)	0.07	0.06	0.06	0.08	0.09	0.15	0.15	0.18	0.15	0.19	0.13	0.09	0.10

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

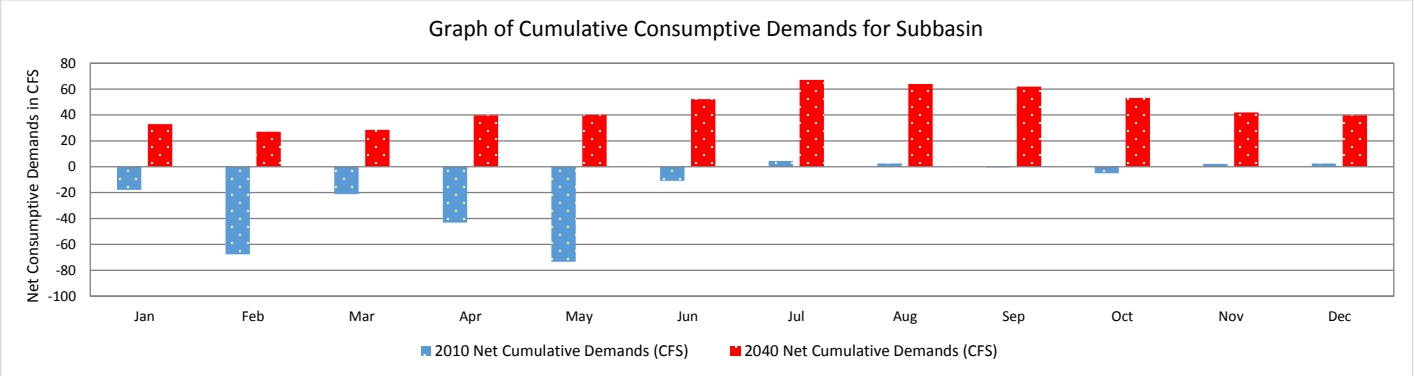
Subbasin Flows and Consumptive Demands

Subbasin #: 06030001 Name: Guntersville Lake Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 24,450 square miles

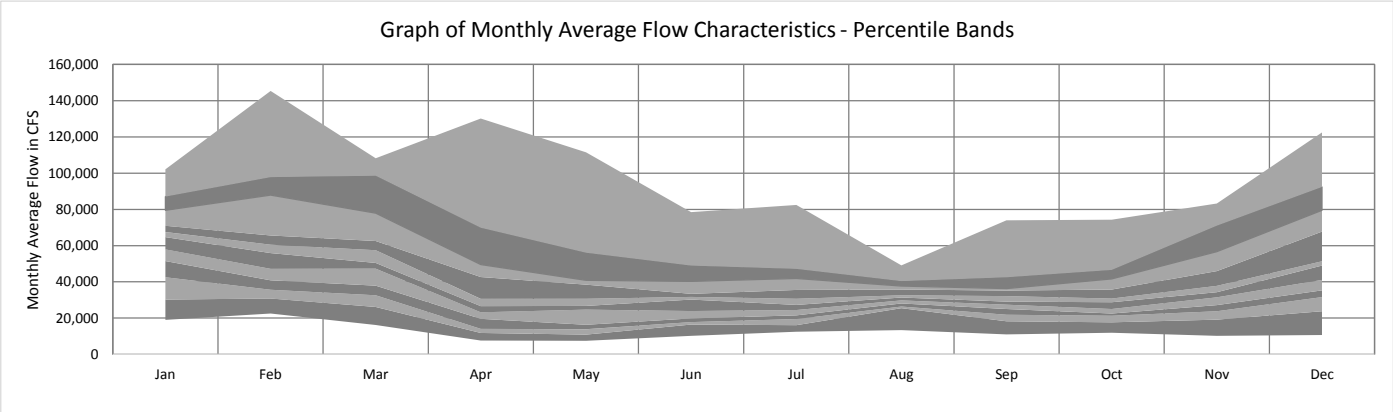
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-17.92	-67.65	-21.12	-43.20	-73.50	-10.83	4.42	2.60	-0.51	-5.10	2.31	2.57	-18.99
2040 Net Demands (CFS)	32.89	27.13	28.48	39.78	40.09	52.33	67.17	64.01	61.84	53.24	42.01	39.76	45.73



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-17.92	-67.65	-21.12	-43.20	-73.50	-10.83	4.42	2.60	-0.51	-5.10	2.31	2.57	-18.99
2040 Net Cumulative Demands (CFS)	32.89	27.13	28.48	39.78	40.09	52.33	67.17	64.01	61.84	53.24	42.01	39.76	45.73



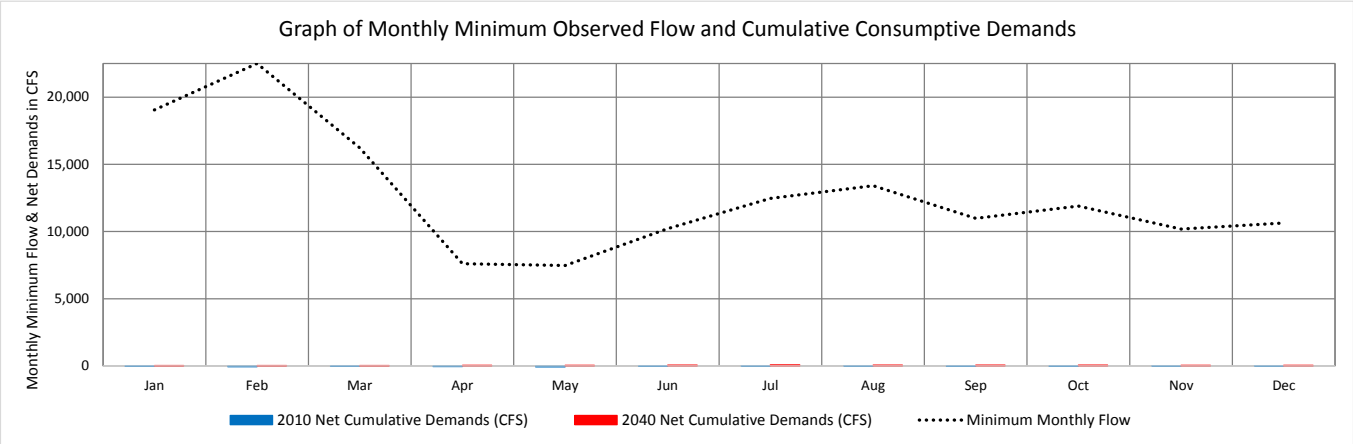
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572	40,846
Median (CFS)	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958	40,626
10th Percentile (CFS)	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806	24,179
Minimum (CFS)	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637	18,472

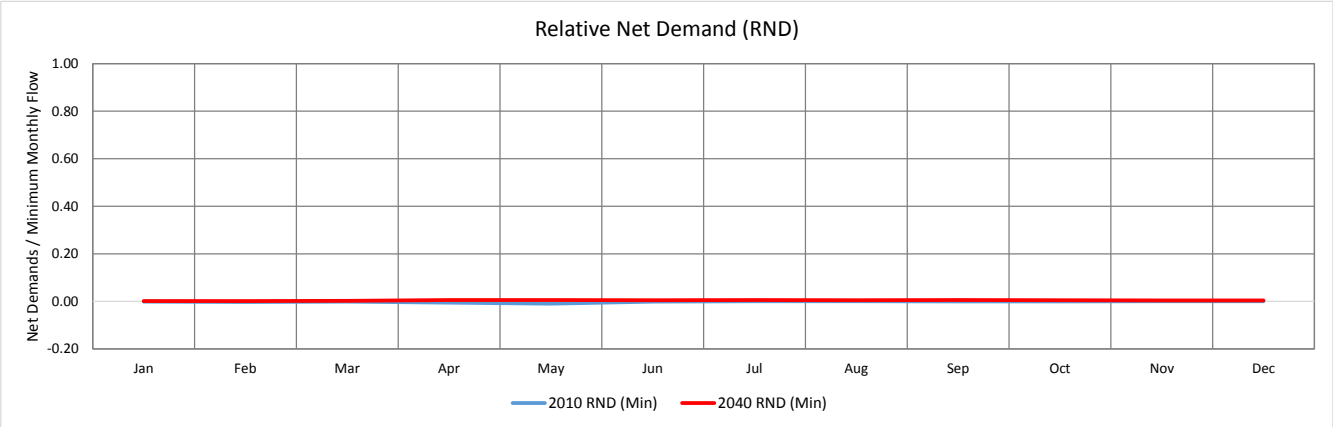
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 06030001 Name: Guntersville Lake Subbasin

Drainage Area: 24,450 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-17.92	-67.65	-21.12	-43.20	-73.50	-10.83	4.42	2.60	-0.51	-5.10	2.31	2.57	-18.99
2040 Net Cumulative Demands (CFS)	32.89	27.13	28.48	39.78	40.09	52.33	67.17	64.01	61.84	53.24	42.01	39.76	45.73

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572	40,846
Median (CFS)	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958	40,626
10th Percentile (CFS)	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806	24,179
Minimum (CFS)	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637	18,472

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

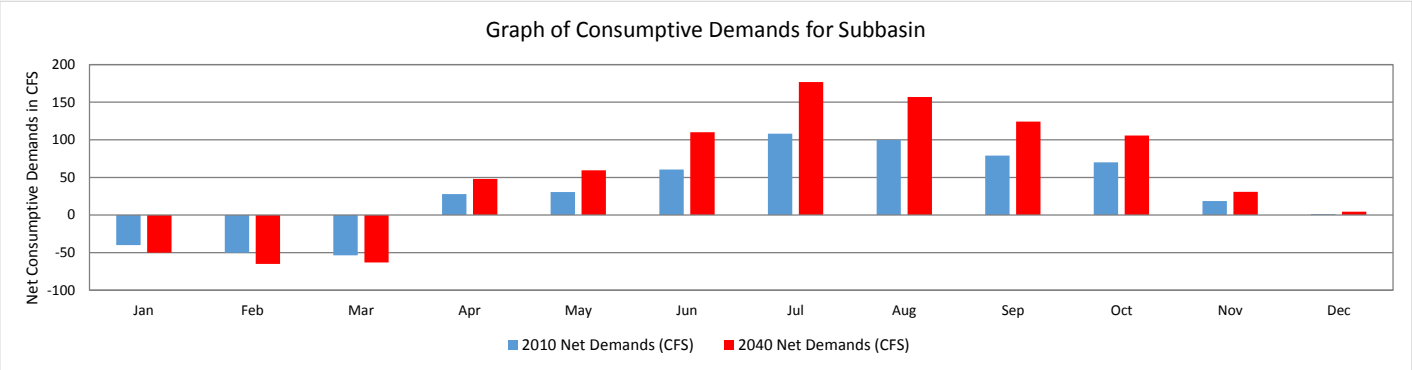
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

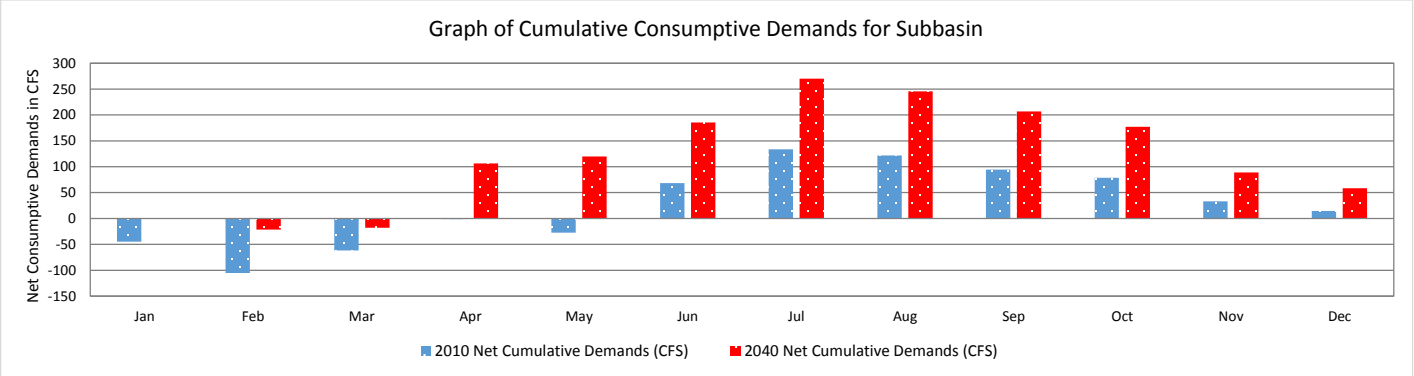
Subbasin Flows and Consumptive Demands

Subbasin #: 06030002 Name: Wheeler Lake Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 29,590 square miles

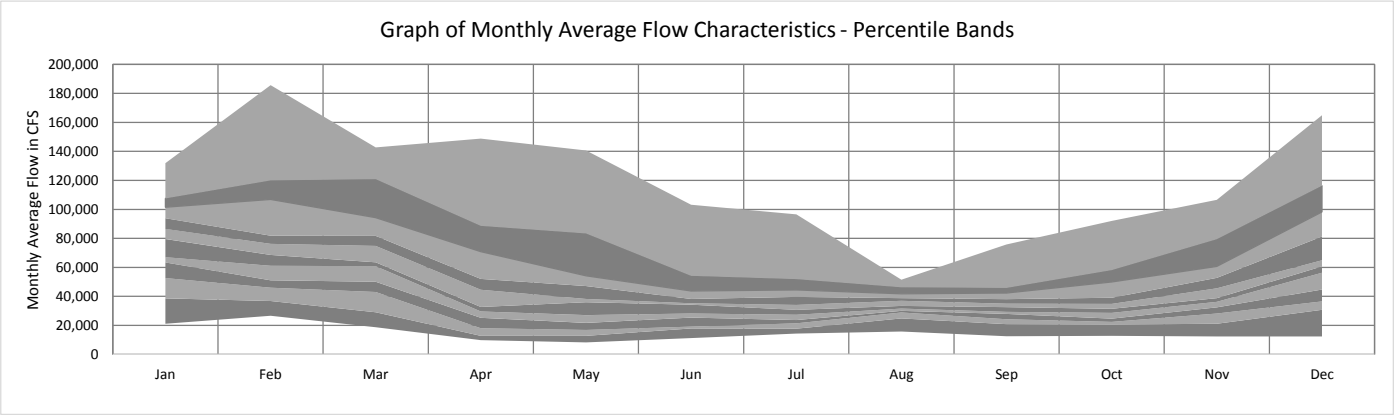
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-39.96	-50.11	-53.63	27.84	30.46	60.45	108.29	99.63	78.91	70.03	18.61	0.99	29.29
2040 Net Demands (CFS)	-50.19	-64.93	-63.22	47.88	59.51	109.97	176.85	156.90	124.12	105.74	30.80	4.36	53.15



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-44.95	-105.32	-62.00	-1.35	-27.20	68.36	133.54	121.66	94.34	78.60	33.03	14.44	25.26
2040 Net Cumulative Demands (CFS)	-0.39	-21.56	-17.97	106.21	119.96	185.67	270.06	245.61	206.97	177.20	88.85	58.39	118.25



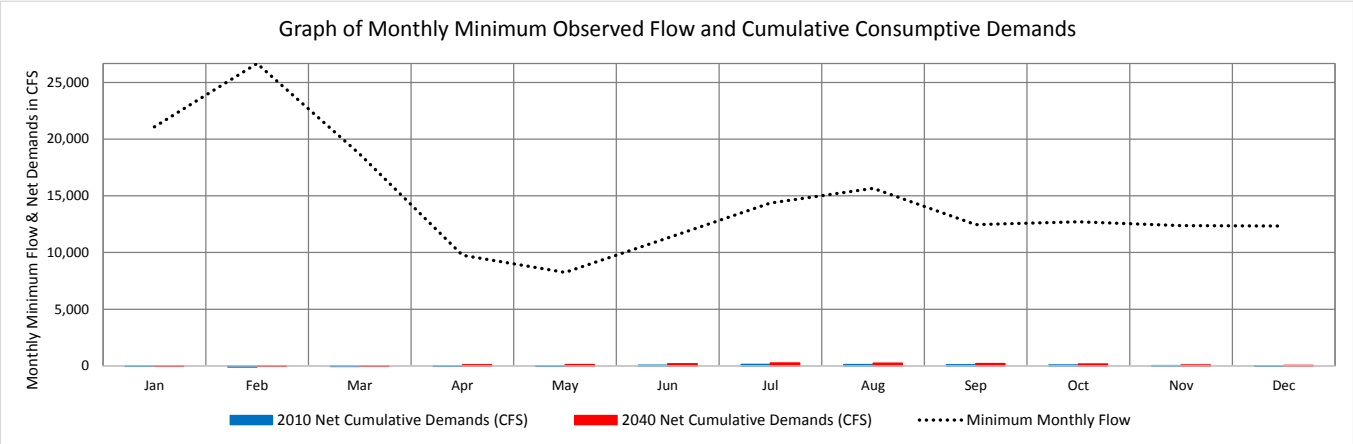
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479	49,481
Median (CFS)	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635	48,481
10th Percentile (CFS)	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744	29,153
Minimum (CFS)	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332	20,164

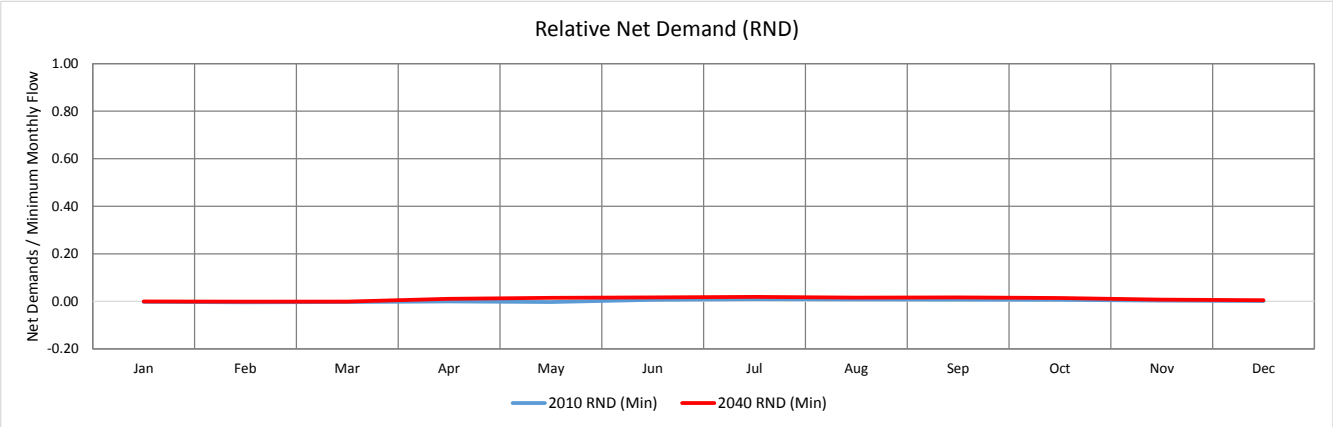
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 06030002 Name: Wheeler Lake Subbasin

Drainage Area: 29,590 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-44.95	-105.32	-62.00	-1.35	-27.20	68.36	133.54	121.66	94.34	78.60	33.03	14.44	25.26
2040 Net Cumulative Demands (CFS)	-0.39	-21.56	-17.97	106.21	119.96	185.67	270.06	245.61	206.97	177.20	88.85	58.39	118.25

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479	49,481
Median (CFS)	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635	48,481
10th Percentile (CFS)	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744	29,153
Minimum (CFS)	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332	20,164

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

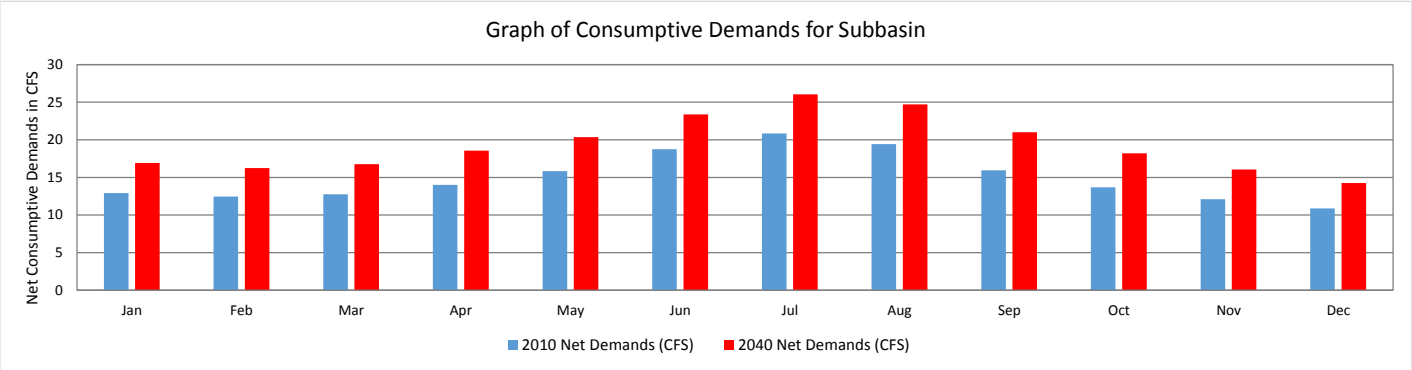
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

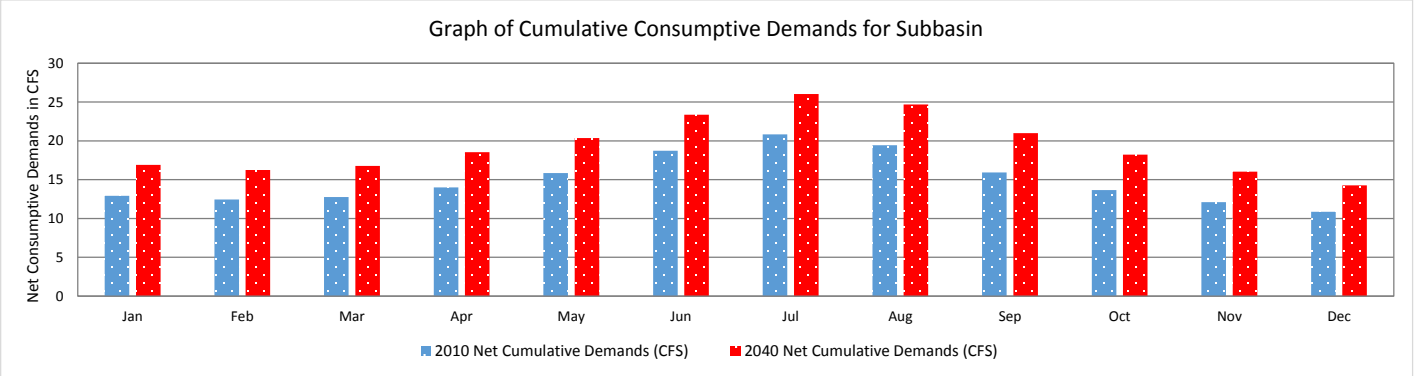
Subbasin Flows and Consumptive Demands

Subbasin #: 06030004 Name: Lower Elk River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,805 square miles

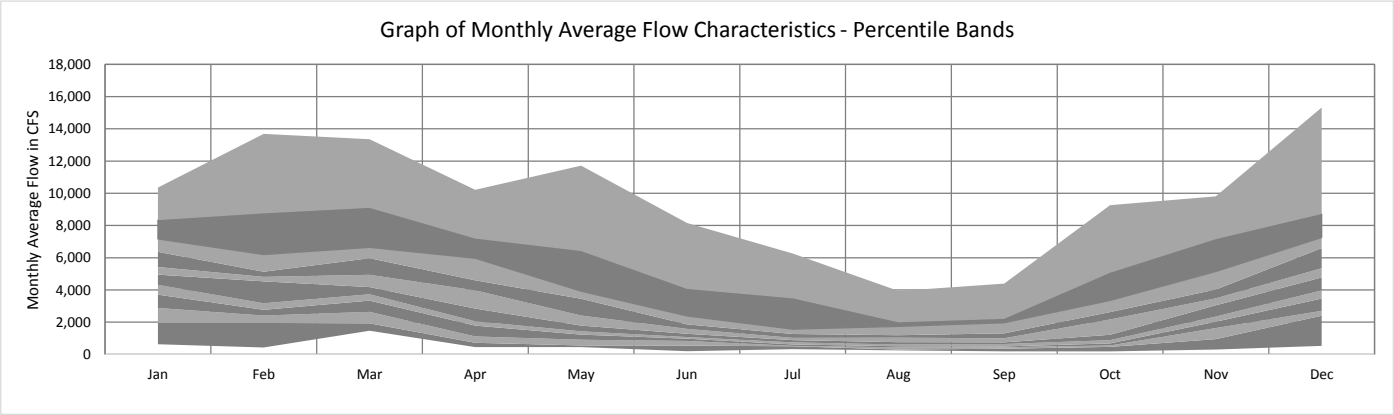
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	12.92	12.45	12.76	14.01	15.84	18.73	20.84	19.43	15.94	13.67	12.11	10.87	14.96
2040 Net Demands (CFS)	16.91	16.24	16.77	18.55	20.36	23.36	26.04	24.70	21.01	18.21	16.04	14.27	19.37



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	12.92	12.45	12.76	14.01	15.84	18.73	20.84	19.43	15.94	13.67	12.11	10.87	14.96
2040 Net Cumulative Demands (CFS)	16.91	16.24	16.77	18.55	20.36	23.36	26.04	24.70	21.01	18.21	16.04	14.27	19.37



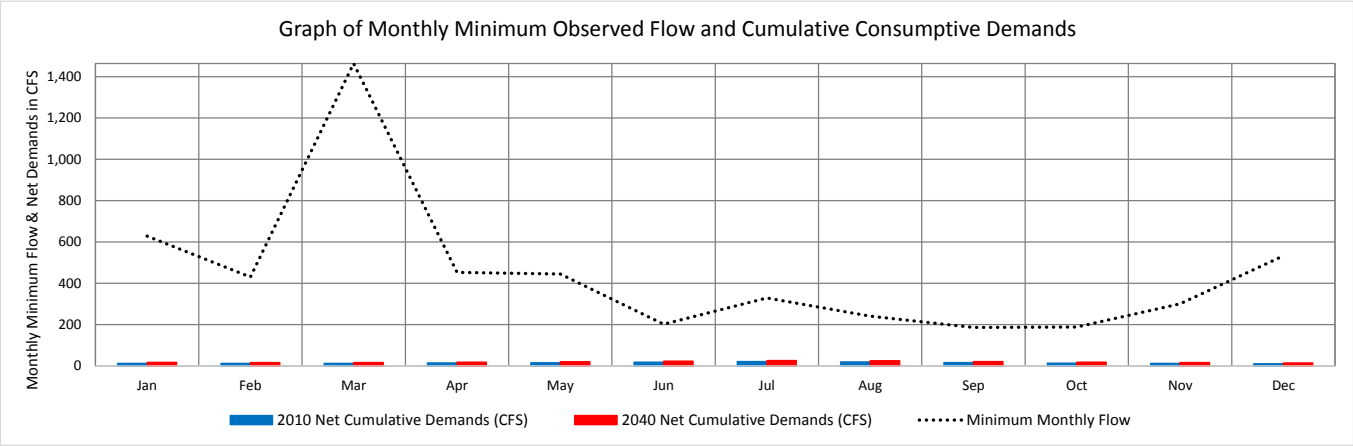
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425	3,148
Median (CFS)	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776	3,036
10th Percentile (CFS)	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398	1,781
Minimum (CFS)	629	430	1,464	452	445	201	329	241	186	188	301	532	915

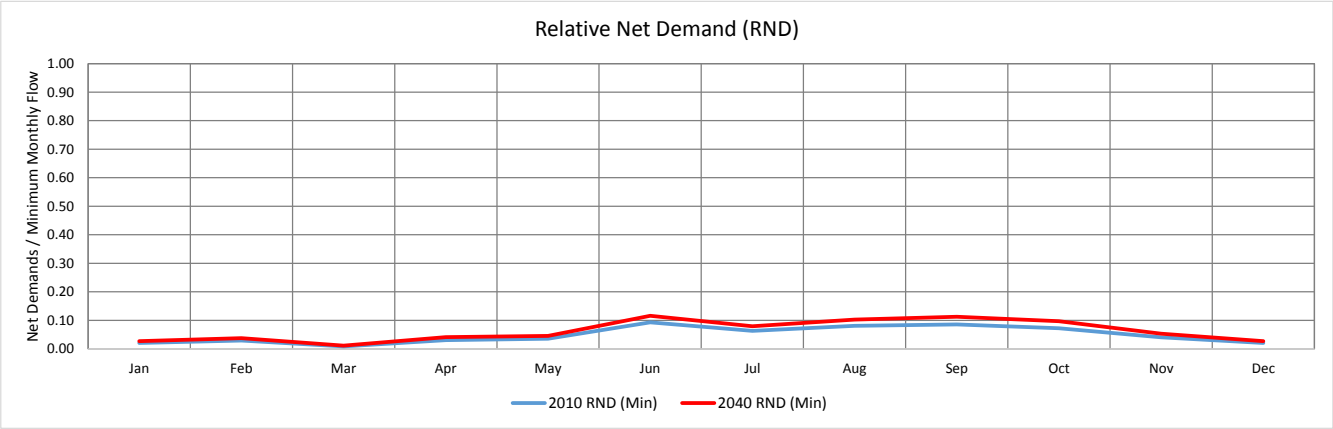
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 06030004 Name: Lower Elk River Subbasin

Drainage Area: 1,805 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	12.92	12.45	12.76	14.01	15.84	18.73	20.84	19.43	15.94	13.67	12.11	10.87	14.96
2040 Net Cumulative Demands (CFS)	16.91	16.24	16.77	18.55	20.36	23.36	26.04	24.70	21.01	18.21	16.04	14.27	19.37

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425	3,148
Median (CFS)	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776	3,036
10th Percentile (CFS)	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398	1,781
Minimum (CFS)	629	430	1,464	452	445	201	329	241	186	188	301	532	915

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.02	0.03	0.01	0.03	0.04	0.09	0.06	0.08	0.09	0.07	0.04	0.02	0.02
2040 RND (Min)	0.03	0.04	0.01	0.04	0.05	0.12	0.08	0.10	0.11	0.10	0.05	0.03	0.02

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

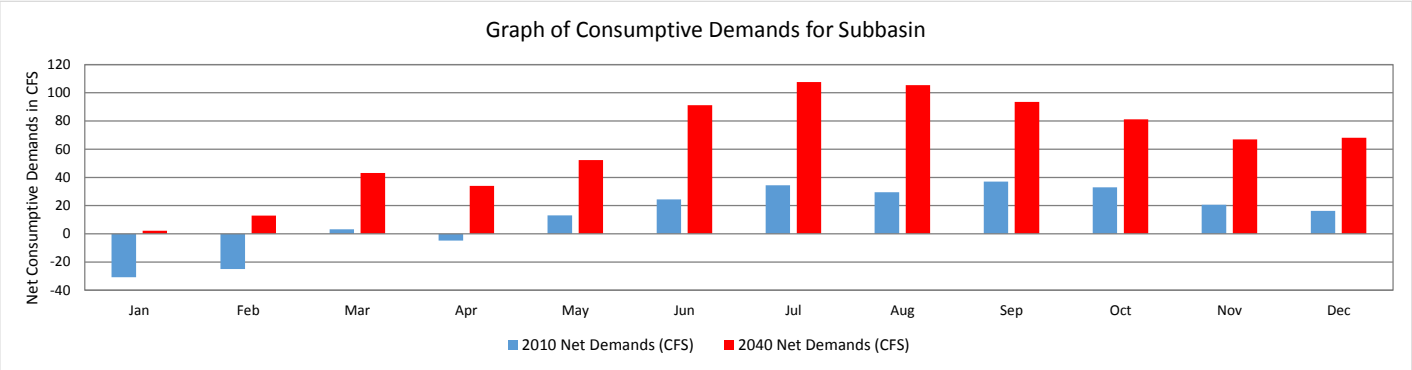
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.01

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

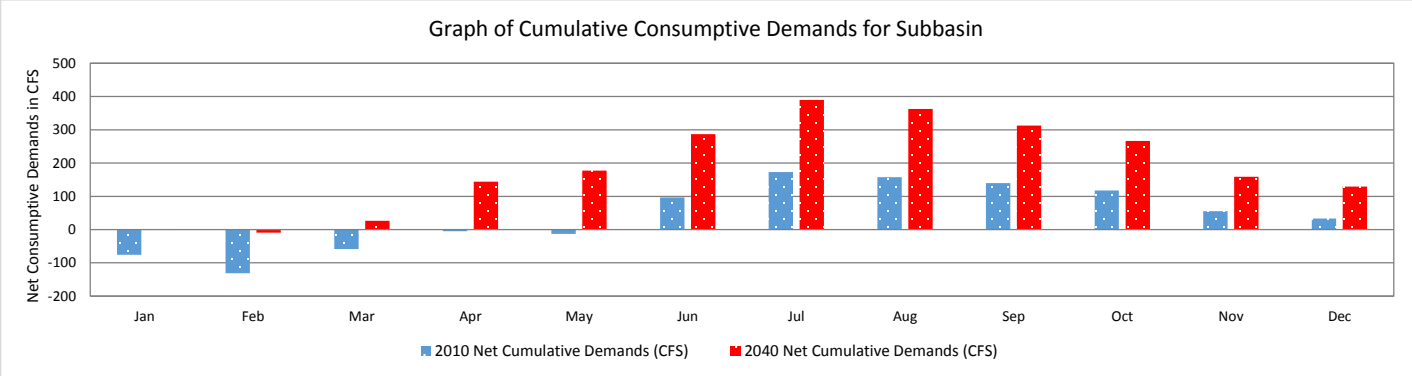
Subbasin Flows and Consumptive Demands

Subbasin #: 06030005 Name: Pickwick Lake Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 32,790 square miles

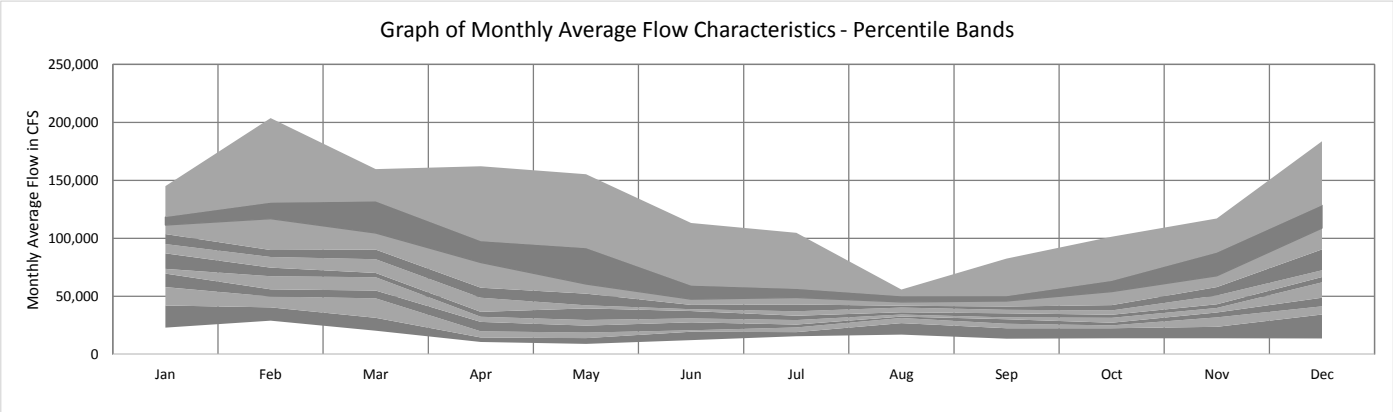
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-30.87	-25.03	3.22	-4.83	13.10	24.37	34.42	29.41	36.96	32.95	20.60	16.33	12.55
2040 Net Demands (CFS)	2.11	12.93	43.10	34.03	52.28	91.15	107.68	105.50	93.56	81.25	66.99	68.18	63.23



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-75.94	-131.26	-58.65	-4.86	-13.02	96.54	172.87	157.37	140.00	117.55	55.52	33.13	40.77
2040 Net Cumulative Demands (CFS)	1.99	-9.00	26.24	143.87	177.00	286.73	389.60	362.57	312.68	266.77	158.69	129.46	187.22



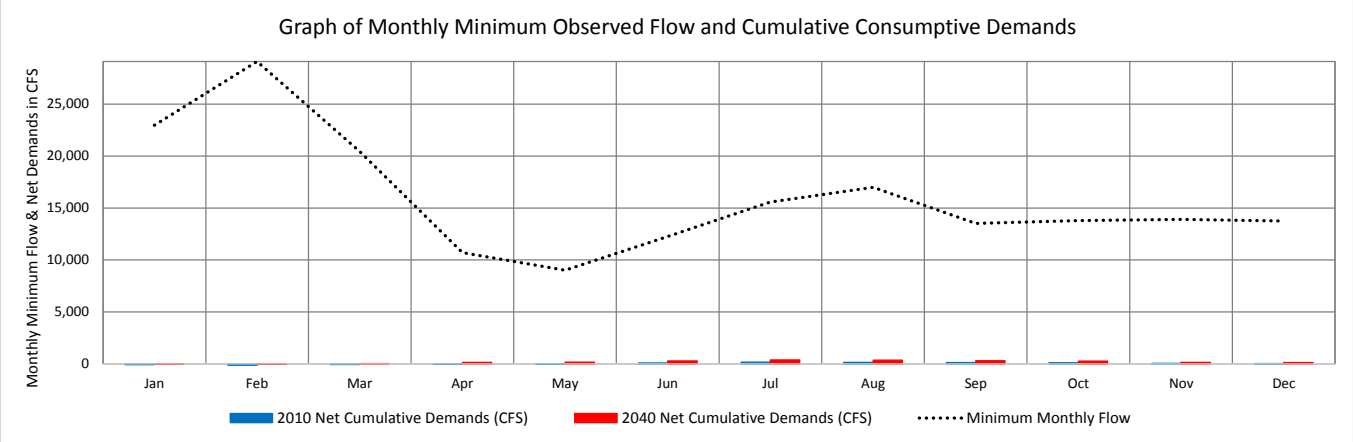
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667	54,444
Median (CFS)	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613	53,157
10th Percentile (CFS)	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349	32,218
Minimum (CFS)	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755	22,066

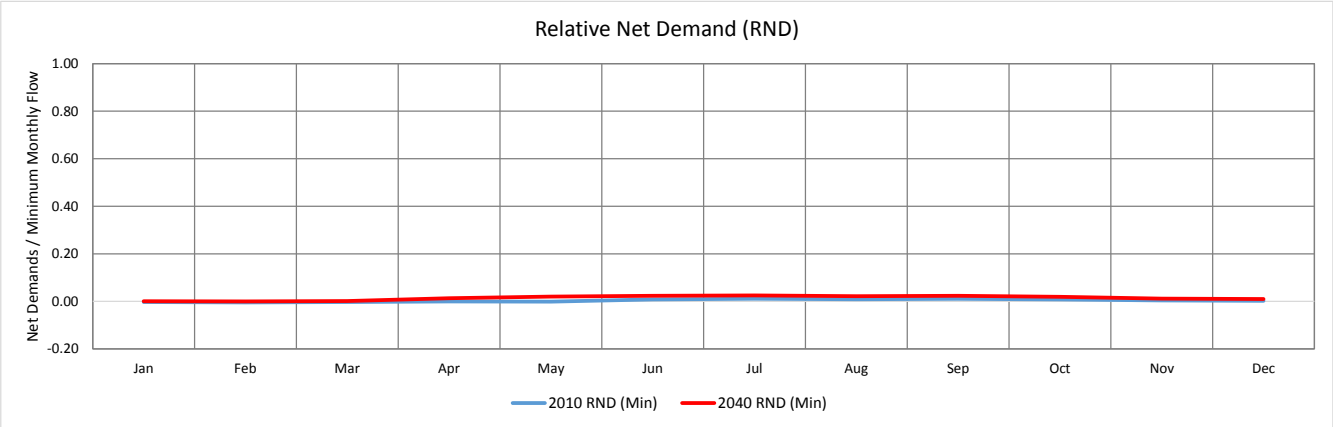
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 06030005 Name: Pickwick Lake Subbasin in Alabama

Drainage Area: 32,790 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-75.94	-131.26	-58.65	-4.86	-13.02	96.54	172.87	157.37	140.00	117.55	55.52	33.13	40.77
2040 Net Cumulative Demands (CFS)	1.99	-9.00	26.24	143.87	177.00	286.73	389.60	362.57	312.68	266.77	158.69	129.46	187.22

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667	54,444
Median (CFS)	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613	53,157
10th Percentile (CFS)	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349	32,218
Minimum (CFS)	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755	22,066

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2040 RND (Min)	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

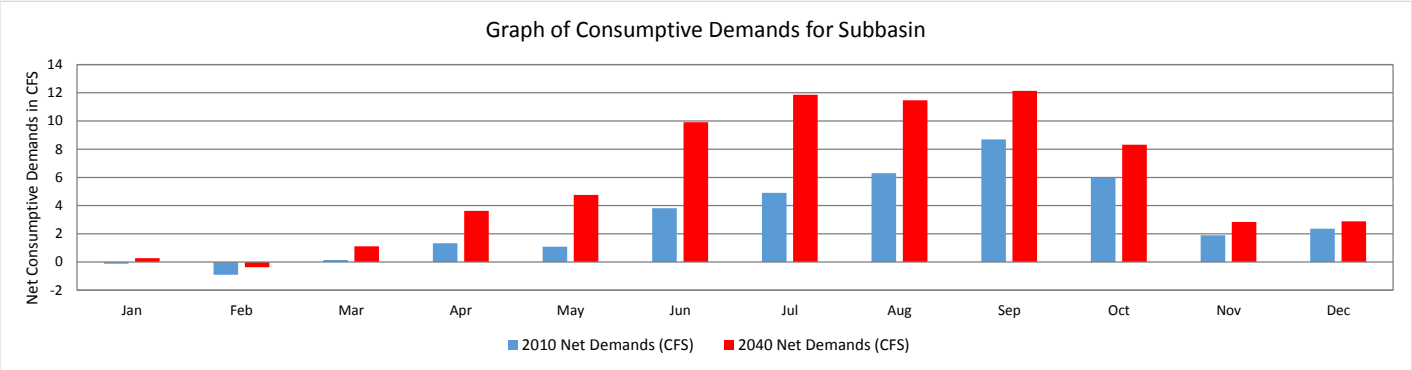
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

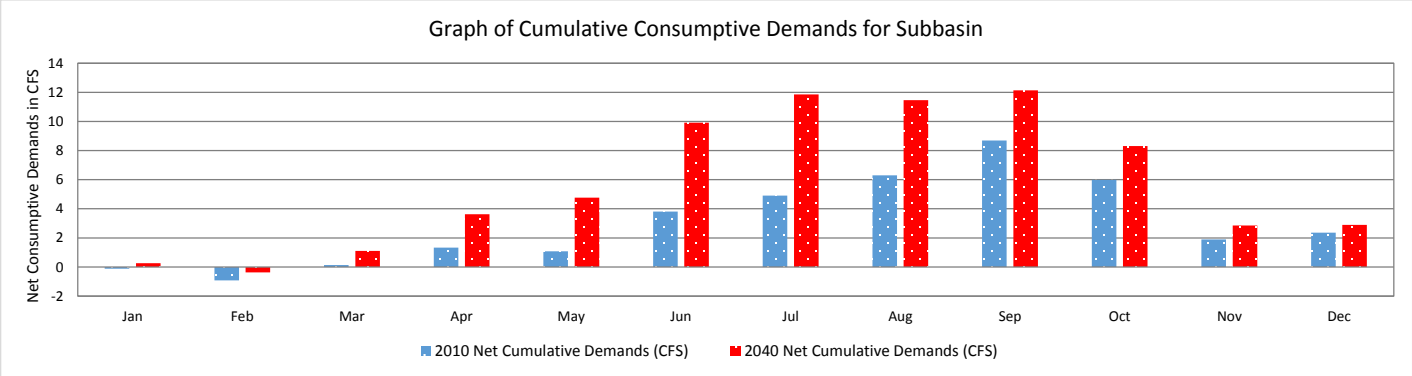
Subbasin Flows and Consumptive Demands

Subbasin #: 06030006 Name: Bear Creek Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 667 square miles

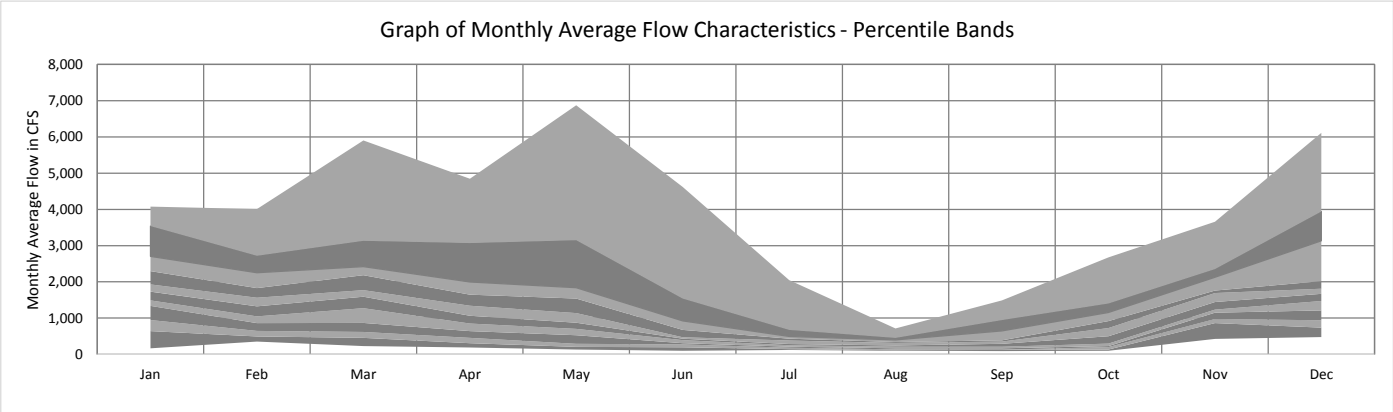
All units are CFS - cubic feet per second



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Demands (CFS)	-0.12	-0.91	0.13	1.33	1.08	3.81	4.90	6.30	8.69	5.99	1.89	2.36	2.95
2040 Net Demands (CFS)	0.27	-0.37	1.11	3.63	4.76	9.91	11.86	11.47	12.14	8.32	2.85	2.89	5.74



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-0.12	-0.91	0.13	1.33	1.08	3.81	4.90	6.30	8.69	5.99	1.89	2.36	2.95
2040 Net Cumulative Demands (CFS)	0.27	-0.37	1.11	3.63	4.76	9.91	11.86	11.47	12.14	8.32	2.85	2.89	5.74



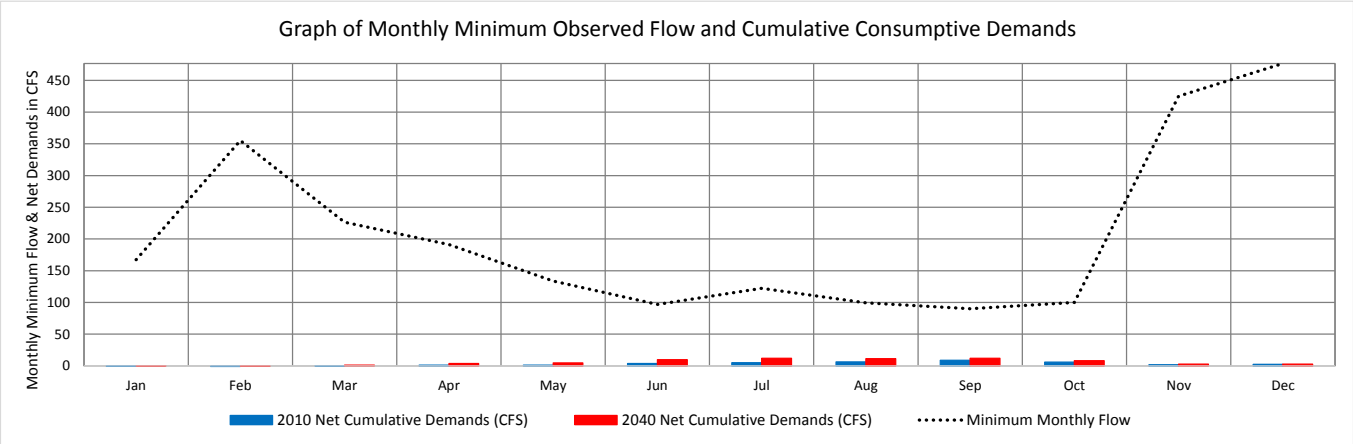
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012	1,167
Median (CFS)	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671	1,140
10th Percentile (CFS)	641	494	452	305	204	195	145	114	120	132	862	735	705
Minimum (CFS)	167	355	227	191	134	97	122	99	90	100	425	477	355

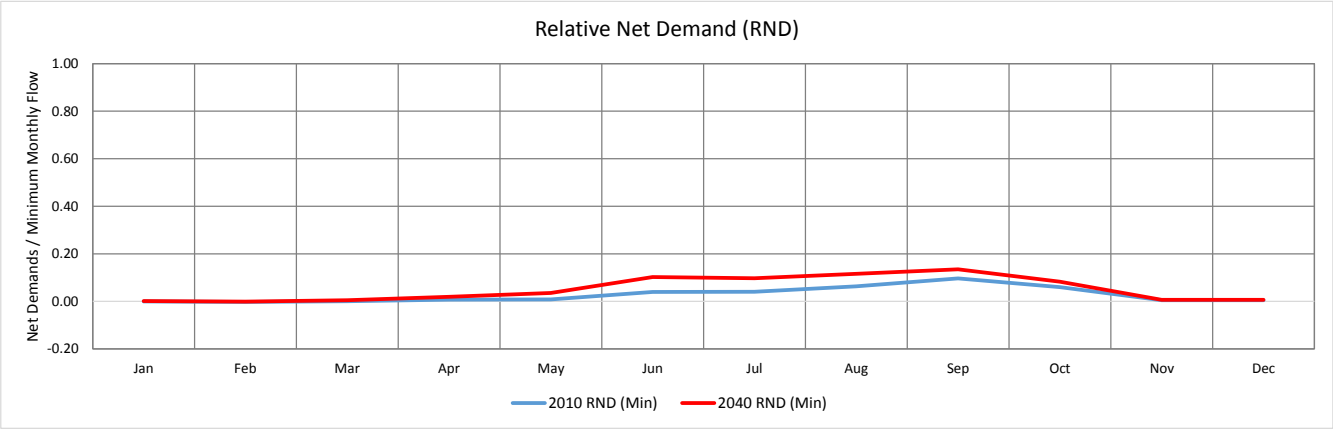
Subbasin Cumulative Demands Compared to Monthly Flows (Relative Net Demand)

Subbasin #: 06030006 Name: Bear Creek Subbasin

Drainage Area: 667 square miles

All units are CFS - cubic feet per second





Cumulative Consumptive Demands

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 Net Cumulative Demands (CFS)	-0.12	-0.91	0.13	1.33	1.08	3.81	4.90	6.30	8.69	5.99	1.89	2.36	2.95
2040 Net Cumulative Demands (CFS)	0.27	-0.37	1.11	3.63	4.76	9.91	11.86	11.47	12.14	8.32	2.85	2.89	5.74

Flow Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average (CFS)	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012	1,167
Median (CFS)	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671	1,140
10th Percentile (CFS)	641	494	452	305	204	195	145	114	120	132	862	735	705
Minimum (CFS)	167	355	227	191	134	97	122	99	90	100	425	477	355

Relative Net Demand (RND) - Minimum*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Min)	0.00	0.00	0.00	0.01	0.01	0.04	0.04	0.06	0.10	0.06	0.00	0.00	0.01
2040 RND (Min)	0.00	0.00	0.00	0.02	0.04	0.10	0.10	0.12	0.13	0.08	0.01	0.01	0.02

*RND (Min) is determined by dividing the cumulative consumptive demands (in CFS) by the minimum monthly average flow (in CFS)

Relative Net Demand (RND) - Average **

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2010 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.00	0.00	0.00
2040 RND (Avg)	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.03	0.01	0.00	0.00	0.00

**RND (Avg) is determined by dividing the cumulative consumptive demands (in CFS) by the average monthly average flow (in CFS)

Appendix I

Subbasin Relative Net Demand (RND) Tables

This appendix contains the monthly, annual, and seasonal tabular summaries of subbasin Relative Net Demand (RND) ratios. The tables for the four categories are shown in the following order: 2010 RND_{min}, 2040 RND_{min}, 2010 RND_{avg}, and 2040 RND_{avg}. Tables I-1 through I-4 contain the monthly ratios for January through December. Tables I-5 through I-8 contain annual and seasonal ratios for the following time periods: January – March, April – June, July – September, and October – December for each analysis.

Table I-1. 2010 Minimum monthly relative net demand (RND_{min}) ratios.

Subbasin	Subbasin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
03130002	Middle Chattahoochee-Lake Harding	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
03130003	Middle Chattahoochee-W.F. George Res.	0.01	0.01	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01
03130004	Lower Chattahoochee	0.00	0.00	0.00	0.00	0.01	0.04	0.04	0.05	0.04	0.03	0.01	0.02
03130012	Chipola	-0.05	-0.04	-0.01	0.00	0.01	0.06	0.06	0.04	0.02	0.00	-0.03	-0.02
03140103	Yellow	-0.02	-0.01	-0.01	0.00	0.00	0.01	0.02	0.01	0.02	0.02	-0.01	0.00
03140104	Blackwater	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00
03140106	Perdido	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-0.01	0.00
03140201	Upper Choctawhatchee	-0.03	-0.03	-0.02	-0.01	-0.01	0.01	0.02	0.01	0.00	-0.02	-0.03	-0.02
03140202	Pea	-0.01	-0.01	-0.01	-0.01	-0.01	0.01	0.05	0.00	-0.04	-0.03	-0.03	-0.01
03140203	Lower Choctawhatchee	-0.02	-0.02	-0.01	-0.01	-0.01	0.02	0.03	0.01	0.00	-0.02	-0.03	-0.01
03140301	Upper Conecuh	-0.01	0.00	0.00	0.00	0.02	0.09	0.12	0.09	0.04	0.04	0.01	0.00
03140302	Patsaliga	0.00	0.00	0.00	0.00	0.01	0.05	0.05	0.05	0.02	0.01	0.00	0.00
03140303	Sepulga	-0.01	-0.01	0.00	0.00	0.01	0.03	0.06	0.05	0.04	0.07	0.01	0.00
03140304	Lower Conecuh	0.00	0.00	0.00	0.00	-0.01	0.01	0.03	0.00	0.02	0.02	-0.01	0.00
03140305	Escambia	-0.02	-0.02	-0.02	-0.02	-0.03	-0.02	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01
03150105	Upper Coosa	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150106	Middle Coosa	-0.01	-0.01	-0.01	0.00	0.01	0.02	0.03	0.02	0.02	0.03	0.01	0.00
03150107	Lower Coosa	-0.02	-0.01	-0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.03	0.00	-0.01
03150108	Upper Tallapoosa	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
03150109	Middle Tallapoosa	0.06	0.07	0.05	0.13	0.09	0.03	0.05	0.05	0.04	0.04	0.04	0.07
03150110	Lower Tallapoosa	0.03	0.02	0.03	0.07	0.12	0.05	0.10	0.12	0.13	0.09	0.08	0.09
03150201	Upper Alabama	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.02	0.01	-0.01	-0.02
03150202	Cahaba	0.04	0.01	0.02	0.08	0.12	0.19	0.18	0.23	0.23	0.20	0.15	0.09
03150203	Middle Alabama	-0.01	-0.01	-0.01	0.00	0.01	0.03	0.03	0.03	0.04	0.03	0.01	0.01
03150204	Lower Alabama	-0.01	-0.01	-0.01	0.00	0.01	0.03	0.04	0.04	0.04	0.02	0.01	0.00
03160103	Buttahatchee	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.03	0.01	0.00
03160105	Luxapallila	0.01	0.00	0.00	0.01	0.01	0.02	0.01	-0.26	-0.14	0.07	0.02	0.01
03160106	Middle Tombigbee-Lubbub	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.04	0.02	0.01
03160107	Sipsey	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.04	0.02	0.00	0.00
03160108	Noxubee	-0.02	-0.08	-0.03	-0.04	0.00	-0.01	0.02	0.03	0.04	0.03	0.02	0.01
03160109	Mulberry Fork	0.25	0.08	0.08	0.17	0.25	0.24	0.20	0.23	0.31	0.55	0.37	0.36
03160110	Sipsey Fork	0.04	0.02	0.04	0.03	0.05	0.04	0.04	0.05	0.10	0.32	0.26	1.47
03160111	Locust Fork	-0.37	-0.19	-0.17	-0.16	-0.36	-0.50	-0.17	-0.21	-0.30	-0.18	-0.32	-0.39
03160112	Upper Black Warrior	-0.21	-0.07	-0.08	-0.06	-0.16	0.02	0.06	0.09	0.15	0.44	-0.07	-0.22
03160113	Lower Black Warrior	-0.11	-0.04	-0.05	-0.02	-0.07	0.05	0.07	0.09	0.21	0.21	0.02	-0.03
03160201	Middle Tombigbee-Chickasaw	-0.02	-0.02	-0.02	0.00	-0.01	0.04	0.05	0.08	0.09	0.12	0.03	0.01
03160202	Sucarnoochee	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.03	0.02	0.00	0.00
03160203	Lower Tombigbee	-0.02	-0.02	-0.01	0.00	-0.01	0.03	0.04	0.07	0.06	0.07	0.00	0.00
03160204	Mobile-Tensaw	-0.02	-0.02	-0.01	0.00	-0.01	0.02	0.03	0.04	0.04	0.02	-0.01	-0.01
03170008	Escatawpa	0.23	0.25	0.17	0.27	0.58	0.65	0.75	0.59	0.59	0.80	0.41	0.29
06030001	Guntersville Lake	0.00	0.00	0.00	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
06030004	Lower Elk	0.02	0.03	0.01	0.03	0.04	0.09	0.06	0.08	0.09	0.07	0.04	0.02
06030005	Pickwick Lake	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
06030006	Bear	0.00	0.00	0.00	0.01	0.01	0.04	0.04	0.06	0.10	0.06	0.00	0.00

Table I-2. 2040 Minimum monthly relative net demand (RND_{min}) ratios.

Subbasin	Subbasin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
03130002	Middle Chattahoochee-Lake Harding	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01
03130003	Middle Chattahoochee-W.F. George Res.	0.01	0.01	0.01	0.01	0.02	0.04	0.05	0.04	0.03	0.03	0.01	0.01
03130004	Lower Chattahoochee	0.00	0.00	0.00	0.01	0.02	0.06	0.07	0.07	0.05	0.03	0.01	0.02
03130012	Chipola	-0.06	-0.05	-0.01	0.00	0.03	0.10	0.10	0.07	0.06	0.03	-0.03	-0.03
03140103	Yellow	-0.01	-0.01	-0.01	0.00	0.03	0.10	0.10	0.05	0.06	0.04	0.00	0.00
03140104	Blackwater	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.02	0.01	0.01	0.00	0.00
03140106	Perdido	-0.01	-0.01	0.00	0.00	0.01	0.03	0.03	0.02	0.01	0.01	-0.01	0.00
03140201	Upper Choctawhatchee	-0.04	-0.03	-0.02	0.00	0.01	0.06	0.08	0.04	0.03	0.00	-0.03	-0.02
03140202	Pea	-0.01	-0.01	-0.01	0.00	0.03	0.08	0.19	0.10	0.11	0.00	-0.02	-0.01
03140203	Lower Choctawhatchee	-0.02	-0.02	-0.01	0.00	0.02	0.07	0.12	0.05	0.02	0.01	-0.03	-0.01
03140301	Upper Conecuh	0.00	0.00	0.00	0.01	0.04	0.14	0.18	0.14	0.05	0.07	0.02	0.01
03140302	Patsaliga	0.00	0.00	0.00	0.00	0.02	0.06	0.06	0.06	0.03	0.02	0.01	0.00
03140303	Sepulga	-0.01	-0.01	0.00	0.00	0.02	0.07	0.10	0.08	0.07	0.12	0.01	0.00
03140304	Lower Conecuh	0.00	0.01	0.01	0.00	-0.01	0.02	0.04	0.01	0.03	0.04	-0.01	-0.01
03140305	Escambia	-0.02	-0.02	-0.02	-0.01	-0.02	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.01
03150105	Upper Coosa	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00
03150106	Middle Coosa	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.05	0.04	0.03	0.04	0.01	-0.01
03150107	Lower Coosa	-0.02	-0.01	-0.02	0.01	0.02	0.05	0.05	0.03	0.03	0.03	0.00	-0.01
03150108	Upper Tallapoosa	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
03150109	Middle Tallapoosa	0.06	0.06	0.05	0.12	0.08	0.02	0.05	0.04	0.04	0.04	0.04	0.07
03150110	Lower Tallapoosa	0.04	0.02	0.04	0.08	0.15	0.07	0.13	0.15	0.15	0.10	0.10	0.10
03150201	Upper Alabama	-0.03	-0.02	-0.02	0.00	0.01	0.03	0.03	0.03	0.03	0.02	-0.01	-0.02
03150202	Cahaba	0.05	0.01	0.02	0.10	0.13	0.21	0.21	0.27	0.27	0.23	0.17	0.11
03150203	Middle Alabama	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.06	0.05	0.05	0.04	0.02	0.01
03150204	Lower Alabama	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.07	0.06	0.06	0.03	0.01	0.00
03160103	Buttahatchee	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.03	0.03	0.01	0.00
03160105	Luxapallila	0.01	0.00	0.00	0.01	0.02	0.01	0.01	-0.34	-0.19	0.07	0.01	0.01
03160106	Middle Tombigbee-Lubbub	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.06	0.04	0.02	0.01
03160107	Sipsey	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.02	0.00	0.00
03160108	Noxubee	-0.02	-0.08	-0.03	-0.04	0.00	-0.01	0.02	0.03	0.04	0.03	0.02	0.01
03160109	Mulberry Fork	0.33	0.10	0.10	0.23	0.31	0.31	0.26	0.30	0.40	0.69	0.45	0.45
03160110	Sipsey Fork	0.04	0.02	0.04	0.03	0.04	0.04	0.04	0.05	0.10	0.32	0.26	1.47
03160111	Locust Fork	-0.38	-0.20	-0.18	-0.16	-0.37	-0.52	-0.18	-0.22	-0.31	-0.18	-0.33	-0.40
03160112	Upper Black Warrior	-0.17	-0.07	-0.07	-0.03	-0.15	0.05	0.08	0.14	0.23	0.70	-0.04	-0.14
03160113	Lower Black Warrior	-0.09	-0.04	-0.04	0.00	-0.06	0.08	0.09	0.13	0.30	0.29	0.02	-0.01
03160201	Middle Tombigbee-Chickasaw	-0.02	-0.02	-0.01	0.01	-0.01	0.05	0.06	0.11	0.11	0.15	0.03	0.01
03160202	Sucarnoochee	0.01	0.01	0.01	0.01	0.02	0.04	0.04	0.05	0.06	0.04	0.01	0.01
03160203	Lower Tombigbee	-0.02	-0.02	-0.01	0.00	-0.01	0.04	0.04	0.09	0.08	0.09	-0.01	0.00
03160204	Mobile-Tensaw	-0.02	-0.02	-0.01	0.00	0.00	0.04	0.04	0.06	0.05	0.03	-0.01	-0.01
03170008	Escatawpa	0.27	0.30	0.20	0.32	0.69	0.78	0.89	0.70	0.70	0.95	0.49	0.35
06030001	Guntersville Lake	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.00
06030004	Lower Elk	0.03	0.04	0.01	0.04	0.05	0.12	0.08	0.10	0.11	0.10	0.05	0.03
06030005	Pickwick Lake	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
06030006	Bear	0.00	0.00	0.00	0.02	0.04	0.10	0.10	0.12	0.13	0.08	0.01	0.01

Table I-3. 2010 Average monthly relative net demand (RND_{avg}) ratios.

Subbasin	Subbasin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
03130002	Middle Chattahoochee-Lake Harding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03130003	Middle Chattahoochee-W.F. George Res.	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03130004	Lower Chattahoochee	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03130012	Chipola	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	-0.01	0.00
03140103	Yellow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140104	Blackwater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140106	Perdido	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140201	Upper Choctawhatchee	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
03140202	Pea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140203	Lower Choctawhatchee	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00
03140301	Upper Conecuh	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00
03140302	Patsaliga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140303	Sepulga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
03140304	Lower Conecuh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
03140305	Escambia	-0.01	-0.01	-0.01	0.00	-0.01	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
03150105	Upper Coosa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150106	Middle Coosa	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150107	Lower Coosa	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150108	Upper Tallapoosa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150109	Middle Tallapoosa	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150110	Lower Tallapoosa	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.01	0.01
03150201	Upper Alabama	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
03150202	Cahaba	0.01	0.00	0.00	0.01	0.02	0.04	0.05	0.06	0.06	0.06	0.03	0.01
03150203	Middle Alabama	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150204	Lower Alabama	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03160103	Buttahatchee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
03160105	Luxapallila	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	-0.03	0.01	0.00	0.00
03160106	Middle Tombigbee-Lubbub	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
03160107	Sipsey	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160108	Noxubee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160109	Mulberry Fork	0.02	0.02	0.01	0.02	0.03	0.07	0.09	0.14	0.11	0.11	0.06	0.03
03160110	Sipsey Fork	0.00	0.00	0.01	0.00	0.01	0.02	0.02	0.04	0.05	0.06	0.03	0.03
03160111	Locust Fork	-0.05	-0.05	-0.04	-0.02	-0.04	-0.06	-0.03	-0.05	-0.04	-0.02	-0.03	-0.03
03160112	Upper Black Warrior	-0.01	-0.02	-0.01	-0.01	-0.01	0.00	0.02	0.04	0.03	0.03	0.00	-0.01
03160113	Lower Black Warrior	-0.01	-0.01	-0.01	0.00	-0.01	0.01	0.02	0.04	0.03	0.03	0.00	0.00
03160201	Middle Tombigbee-Chickasaw	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.00	0.00
03160202	Sucarnoochee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
03160203	Lower Tombigbee	0.00	-0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00
03160204	Mobile-Tensaw	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
03170008	Escatawpa	0.06	0.05	0.05	0.06	0.08	0.13	0.12	0.15	0.13	0.16	0.11	0.08
06030001	Guntersville Lake	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	Lower Elk	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.01	0.00	0.00
06030005	Pickwick Lake	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030006	Bear	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.00	0.00

Table I-4. 2040 Average monthly relative net demand (RND_{avg}) ratios.

Subbasin	Subbasin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
03130002	Middle Chattahoochee-Lake Harding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
03130003	Middle Chattahoochee-W.F. George Res.	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00
03130004	Lower Chattahoochee	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.01	0.00	0.00
03130012	Chipola	-0.01	-0.01	0.00	0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.00	-0.01
03140103	Yellow	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
03140104	Blackwater	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
03140106	Perdido	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
03140201	Upper Choctawhatchee	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.02	0.01	0.01	0.00	-0.01	-0.01
03140202	Pea	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
03140203	Lower Choctawhatchee	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	-0.01	0.00
03140301	Upper Conecuh	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03140302	Patsaliga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140303	Sepulga	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
03140304	Lower Conecuh	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00
03140305	Escambia	-0.01	-0.01	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
03150105	Upper Coosa	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
03150106	Middle Coosa	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00
03150107	Lower Coosa	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150108	Upper Tallapoosa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150109	Middle Tallapoosa	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150110	Lower Tallapoosa	0.01	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.02	0.01	0.01
03150201	Upper Alabama	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03150202	Cahaba	0.01	0.00	0.00	0.01	0.02	0.04	0.06	0.07	0.07	0.07	0.03	0.02
03150203	Middle Alabama	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.01	0.00	0.00
03150204	Lower Alabama	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.00	0.00
03160103	Buttahatchee	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00
03160105	Luxapallila	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.08	-0.04	0.01	0.00	0.00
03160106	Middle Tombigbee-Lubbub	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
03160107	Sipsey	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160108	Noxubee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160109	Mulberry Fork	0.03	0.03	0.02	0.03	0.04	0.10	0.12	0.18	0.14	0.13	0.07	0.04
03160110	Sipsey Fork	0.00	0.00	0.01	0.00	0.01	0.01	0.02	0.04	0.05	0.06	0.03	0.03
03160111	Locust Fork	-0.05	-0.05	-0.04	-0.02	-0.05	-0.06	-0.03	-0.05	-0.04	-0.02	-0.03	-0.03
03160112	Upper Black Warrior	-0.01	-0.02	-0.01	0.00	-0.01	0.01	0.03	0.06	0.04	0.04	0.00	0.00
03160113	Lower Black Warrior	-0.01	-0.01	-0.01	0.00	-0.01	0.01	0.03	0.06	0.04	0.04	0.00	0.00
03160201	Middle Tombigbee-Chickasaw	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.02	0.00	0.00
03160202	Sucarnoochee	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
03160203	Lower Tombigbee	0.00	-0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.00	0.00
03160204	Mobile-Tensaw	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.00	0.00
03170008	Escatawpa	0.07	0.06	0.06	0.08	0.09	0.15	0.15	0.18	0.15	0.19	0.13	0.09
06030001	Guntersville Lake	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00
06030004	Lower Elk	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.00	0.00
06030005	Pickwick Lake	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00
06030006	Bear	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.03	0.01	0.00	0.00

Table I-5. 2010 Minimum seasonal and annual relative net demand (RND_{min}) ratios.

Subbasin	Subbasin Name	January - March	April - June	July - September	October - December	Annual
03130002	Middle Chattahoochee-Lake Harding	0.00	0.01	0.01	0.01	0.00
03130003	Middle Chattahoochee-W.F. George Res.	0.01	0.01	0.02	0.01	0.01
03130004	Lower Chattahoochee	0.00	0.02	0.04	0.02	0.01
03130012	Chipola	-0.03	0.02	0.04	-0.02	0.00
03140103	Yellow	-0.01	0.00	0.02	0.00	0.00
03140104	Blackwater	0.00	0.01	0.01	0.01	0.00
03140106	Perdido	-0.01	0.00	0.00	0.00	0.00
03140201	Upper Choctawhatchee	-0.03	0.00	0.01	-0.02	-0.01
03140202	Pea	-0.01	0.00	0.00	-0.02	-0.01
03140203	Lower Choctawhatchee	-0.02	0.00	0.01	-0.02	-0.01
03140301	Upper Conecuh	0.00	0.04	0.08	0.02	0.01
03140302	Patsaliga	0.00	0.02	0.04	0.01	0.00
03140303	Sepulga	-0.01	0.01	0.05	0.03	0.00
03140304	Lower Conecuh	0.00	0.00	0.02	0.00	0.00
03140305	Escambia	-0.02	-0.02	-0.02	-0.02	-0.02
03150105	Upper Coosa	0.00	0.00	0.01	0.00	0.00
03150106	Middle Coosa	-0.01	0.01	0.02	0.01	0.00
03150107	Lower Coosa	-0.01	0.01	0.02	0.01	0.00
03150108	Upper Tallapoosa	0.00	0.01	0.01	0.01	0.00
03150109	Middle Tallapoosa	0.06	0.08	0.05	0.05	0.02
03150110	Lower Tallapoosa	0.03	0.08	0.12	0.09	0.03
03150201	Upper Alabama	-0.02	0.00	0.02	0.00	0.00
03150202	Cahaba	0.02	0.13	0.22	0.15	0.05
03150203	Middle Alabama	-0.01	0.02	0.03	0.02	0.01
03150204	Lower Alabama	-0.01	0.01	0.04	0.01	0.00
03160103	Buttahatchee	0.00	0.00	0.02	0.01	0.00
03160105	Luxapallila	0.00	0.01	-0.13	0.03	0.00
03160106	Middle Tombigbee-Lubbub	0.00	0.01	0.05	0.02	0.00
03160107	Sipsey	0.00	0.00	0.03	0.01	0.00
03160108	Noxubee	-0.04	-0.02	0.03	0.02	-0.01
03160109	Mulberry Fork	0.14	0.22	0.25	0.42	0.12
03160110	Sipsey Fork	0.03	0.04	0.06	0.68	0.04
03160111	Locust Fork	-0.24	-0.34	-0.23	-0.30	-0.14
03160112	Upper Black Warrior	-0.12	-0.06	0.10	0.05	-0.02
03160113	Lower Black Warrior	-0.07	-0.01	0.13	0.06	0.00
03160201	Middle Tombigbee-Chickasaw	-0.02	0.01	0.07	0.05	0.00
03160202	Sucarnoochee	0.00	0.01	0.02	0.01	0.00
03160203	Lower Tombigbee	-0.02	0.00	0.06	0.02	0.00
03160204	Mobile-Tensaw	-0.02	0.00	0.04	0.00	0.00
03170008	Escatawpa	0.22	0.50	0.64	0.50	0.27
06030001	Guntersville Lake	0.00	-0.01	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.01	0.00	0.00
06030004	Lower Elk	0.02	0.05	0.08	0.04	0.02
06030005	Pickwick Lake	0.00	0.00	0.01	0.00	0.00
06030006	Bear	0.00	0.02	0.07	0.02	0.01

Table I-6. 2040 Minimum seasonal and annual relative net demand (RND_{min}) ratios.

Subbasin	Subbasin Name	January - March	April - June	July - September	October - December	Annual
03130002	Middle Chattahoochee-Lake Harding	0.00	0.01	0.01	0.01	0.01
03130003	Middle Chattahoochee-W.F. George Res.	0.01	0.02	0.04	0.02	0.01
03130004	Lower Chattahoochee	0.00	0.03	0.06	0.02	0.02
03130012	Chipola	-0.04	0.04	0.08	-0.01	0.00
03140103	Yellow	-0.01	0.04	0.07	0.01	0.00
03140104	Blackwater	0.00	0.02	0.02	0.01	0.01
03140106	Perdido	-0.01	0.01	0.02	0.00	0.00
03140201	Upper Choctawhatchee	-0.03	0.02	0.05	-0.02	0.00
03140202	Pea	-0.01	0.04	0.13	-0.01	0.00
03140203	Lower Choctawhatchee	-0.02	0.03	0.07	-0.01	0.00
03140301	Upper Conecuh	0.00	0.06	0.13	0.03	0.01
03140302	Patsaliga	0.00	0.02	0.05	0.01	0.00
03140303	Sepulga	-0.01	0.03	0.08	0.05	0.01
03140304	Lower Conecuh	0.01	0.01	0.03	0.01	0.01
03140305	Escambia	-0.02	-0.01	-0.01	-0.02	-0.01
03150105	Upper Coosa	0.00	0.01	0.01	0.00	0.00
03150106	Middle Coosa	-0.01	0.03	0.04	0.01	0.01
03150107	Lower Coosa	-0.02	0.02	0.04	0.01	0.00
03150108	Upper Tallapoosa	0.00	0.00	0.01	0.01	0.00
03150109	Middle Tallapoosa	0.06	0.08	0.04	0.05	0.02
03150110	Lower Tallapoosa	0.03	0.10	0.14	0.10	0.04
03150201	Upper Alabama	-0.02	0.01	0.03	0.00	0.00
03150202	Cahaba	0.03	0.15	0.25	0.17	0.06
03150203	Middle Alabama	-0.01	0.03	0.05	0.02	0.01
03150204	Lower Alabama	-0.01	0.03	0.06	0.01	0.01
03160103	Buttahatchee	0.00	0.01	0.03	0.01	0.00
03160105	Luxapallila	0.00	0.01	-0.18	0.03	0.00
03160106	Middle Tombigbee-Lubbub	0.00	0.01	0.05	0.02	0.00
03160107	Sipsey	0.00	0.00	0.03	0.01	0.00
03160108	Noxubee	-0.04	-0.01	0.03	0.02	-0.01
03160109	Mulberry Fork	0.18	0.28	0.32	0.53	0.16
03160110	Sipsey Fork	0.03	0.04	0.06	0.68	0.04
03160111	Locust Fork	-0.25	-0.35	-0.24	-0.31	-0.15
03160112	Upper Black Warrior	-0.10	-0.04	0.15	0.17	-0.01
03160113	Lower Black Warrior	-0.06	0.01	0.17	0.10	0.00
03160201	Middle Tombigbee-Chickasaw	-0.02	0.02	0.09	0.06	0.01
03160202	Sucarnoochee	0.01	0.02	0.05	0.02	0.01
03160203	Lower Tombigbee	-0.02	0.01	0.07	0.02	0.00
03160204	Mobile-Tensaw	-0.02	0.01	0.05	0.00	0.00
03170008	Escatawpa	0.26	0.59	0.76	0.60	0.32
06030001	Guntersville Lake	0.00	0.01	0.01	0.00	0.00
06030002	Wheeler Lake	0.00	0.01	0.02	0.01	0.01
06030004	Lower Elk	0.03	0.07	0.10	0.06	0.02
06030005	Pickwick Lake	0.00	0.02	0.02	0.01	0.01
06030006	Bear	0.00	0.05	0.12	0.03	0.02

Table I-7. 2010 Average seasonal and annual relative net demand (RND_{avg}) ratios.

Subbasin	Subbasin Name	January - March	April - June	July - September	October - December	Annual
03130002	Middle Chattahoochee-Lake Harding	0.00	0.00	0.00	0.00	0.00
03130003	Middle Chattahoochee-W.F. George Res.	0.00	0.00	0.01	0.00	0.00
03130004	Lower Chattahoochee	0.00	0.01	0.01	0.01	0.00
03130012	Chipola	-0.01	0.00	0.01	0.00	0.00
03140103	Yellow	0.00	0.00	0.00	0.00	0.00
03140104	Blackwater	0.00	0.00	0.00	0.00	0.00
03140106	Perdido	0.00	0.00	0.00	0.00	0.00
03140201	Upper Choctawhatchee	-0.01	0.00	0.00	-0.01	0.00
03140202	Pea	0.00	0.00	0.00	0.00	0.00
03140203	Lower Choctawhatchee	0.00	0.00	0.00	0.00	0.00
03140301	Upper Conecuh	0.00	0.00	0.01	0.00	0.00
03140302	Patsaliga	0.00	0.00	0.00	0.00	0.00
03140303	Sepulga	0.00	0.00	0.01	0.00	0.00
03140304	Lower Conecuh	0.00	0.00	0.00	0.00	0.00
03140305	Escambia	-0.01	-0.01	-0.01	-0.01	-0.01
03150105	Upper Coosa	0.00	0.00	0.00	0.00	0.00
03150106	Middle Coosa	0.00	0.00	0.01	0.00	0.00
03150107	Lower Coosa	0.00	0.00	0.01	0.00	0.00
03150108	Upper Tallapoosa	0.00	0.00	0.00	0.00	0.00
03150109	Middle Tallapoosa	0.00	0.01	0.01	0.01	0.01
03150110	Lower Tallapoosa	0.00	0.01	0.02	0.01	0.01
03150201	Upper Alabama	0.00	0.00	0.01	0.00	0.00
03150202	Cahaba	0.01	0.02	0.06	0.03	0.02
03150203	Middle Alabama	0.00	0.00	0.01	0.00	0.00
03150204	Lower Alabama	0.00	0.00	0.01	0.00	0.00
03160103	Buttahatchee	0.00	0.00	0.01	0.00	0.00
03160105	Luxapallila	0.00	0.00	-0.03	0.01	0.00
03160106	Middle Tombigbee-Lubbub	0.00	0.00	0.01	0.00	0.00
03160107	Sipsey	0.00	0.00	0.00	0.00	0.00
03160108	Noxubee	0.00	0.00	0.00	0.00	0.00
03160109	Mulberry Fork	0.02	0.04	0.11	0.06	0.04
03160110	Sipsey Fork	0.00	0.01	0.04	0.04	0.02
03160111	Locust Fork	-0.05	-0.04	-0.04	-0.03	-0.04
03160112	Upper Black Warrior	-0.01	0.00	0.03	0.01	-0.01
03160113	Lower Black Warrior	-0.01	0.00	0.03	0.01	0.00
03160201	Middle Tombigbee-Chickasaw	0.00	0.00	0.02	0.01	0.00
03160202	Sucarnoochee	0.00	0.00	0.00	0.00	0.00
03160203	Lower Tombigbee	0.00	0.00	0.01	0.00	0.00
03160204	Mobile-Tensaw	-0.01	0.00	0.01	0.00	0.00
03170008	Escatawpa	0.05	0.09	0.13	0.12	0.08
06030001	Guntersville Lake	0.00	0.00	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.00	0.00	0.00
06030004	Lower Elk	0.00	0.01	0.02	0.00	0.00
06030005	Pickwick Lake	0.00	0.00	0.00	0.00	0.00
06030006	Bear	0.00	0.00	0.02	0.00	0.00

Table I-8. 2040 Average seasonal and annual relative net demand (RND_{avg}) ratios.

Subbasin	Subbasin Name	January - March	April - June	July - September	October - December	Annual
03130002	Middle Chattahoochee-Lake Harding	0.00	0.00	0.00	0.00	0.00
03130003	Middle Chattahoochee-W.F. George Res.	0.00	0.01	0.01	0.01	0.01
03130004	Lower Chattahoochee	0.00	0.01	0.02	0.01	0.01
03130012	Chipola	-0.01	0.01	0.01	0.00	0.00
03140103	Yellow	0.00	0.00	0.01	0.00	0.00
03140104	Blackwater	0.00	0.00	0.01	0.00	0.00
03140106	Perdido	0.00	0.00	0.01	0.00	0.00
03140201	Upper Choctawhatchee	-0.01	0.01	0.01	0.00	0.00
03140202	Pea	0.00	0.00	0.01	0.00	0.00
03140203	Lower Choctawhatchee	-0.01	0.01	0.01	0.00	0.00
03140301	Upper Conecuh	0.00	0.01	0.01	0.00	0.00
03140302	Patsaliga	0.00	0.00	0.00	0.00	0.00
03140303	Sepulga	0.00	0.00	0.01	0.00	0.00
03140304	Lower Conecuh	0.00	0.00	0.01	0.00	0.00
03140305	Escambia	-0.01	0.00	0.00	-0.01	-0.01
03150105	Upper Coosa	0.00	0.00	0.00	0.00	0.00
03150106	Middle Coosa	0.00	0.01	0.01	0.00	0.00
03150107	Lower Coosa	0.00	0.01	0.01	0.00	0.00
03150108	Upper Tallapoosa	0.00	0.00	0.00	0.00	0.00
03150109	Middle Tallapoosa	0.00	0.01	0.01	0.01	0.00
03150110	Lower Tallapoosa	0.00	0.01	0.03	0.01	0.01
03150201	Upper Alabama	0.00	0.00	0.01	0.00	0.00
03150202	Cahaba	0.01	0.03	0.07	0.04	0.02
03150203	Middle Alabama	0.00	0.01	0.02	0.01	0.00
03150204	Lower Alabama	0.00	0.01	0.02	0.00	0.00
03160103	Buttahatchee	0.00	0.00	0.01	0.00	0.00
03160105	Luxapallila	0.00	0.00	-0.04	0.01	0.00
03160106	Middle Tombigbee-Lubbub	0.00	0.00	0.01	0.00	0.00
03160107	Sipsey	0.00	0.00	0.00	0.00	0.00
03160108	Noxubee	0.00	0.00	0.00	0.00	0.00
03160109	Mulberry Fork	0.03	0.06	0.15	0.08	0.05
03160110	Sipsey Fork	0.00	0.01	0.04	0.04	0.02
03160111	Locust Fork	-0.05	-0.04	-0.04	-0.03	-0.04
03160112	Upper Black Warrior	-0.01	0.00	0.04	0.01	0.00
03160113	Lower Black Warrior	-0.01	0.00	0.04	0.01	0.00
03160201	Middle Tombigbee-Chickasaw	0.00	0.00	0.02	0.01	0.00
03160202	Sucarnoochee	0.00	0.00	0.01	0.00	0.00
03160203	Lower Tombigbee	0.00	0.00	0.02	0.00	0.00
03160204	Mobile-Tensaw	-0.01	0.00	0.01	0.00	0.00
03170008	Escatawpa	0.06	0.11	0.16	0.14	0.10
06030001	Guntersville Lake	0.00	0.00	0.00	0.00	0.00
06030002	Wheeler Lake	0.00	0.00	0.01	0.00	0.00
06030004	Lower Elk	0.00	0.01	0.02	0.01	0.01
06030005	Pickwick Lake	0.00	0.00	0.01	0.00	0.00
06030006	Bear	0.00	0.01	0.03	0.00	0.00

Appendix J

Monthly and Seasonal Relative Net Demand (RND) Ratio Maps by Subbasin

This appendix contains the monthly and seasonal maps of subbasin Relative Net Demand (RND) ratios. The maps for the four categories are shown in the following order: 2010 RND_{min}, 2040 RND_{min}, 2010 RND_{avg}, and 2040 RND_{avg}. The maps depict the monthly ratios for January through December and then seasonal ratios for the following time periods: January – March, April – June, July – September, and, finally, October – December.

Figure J-1. Map of January 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

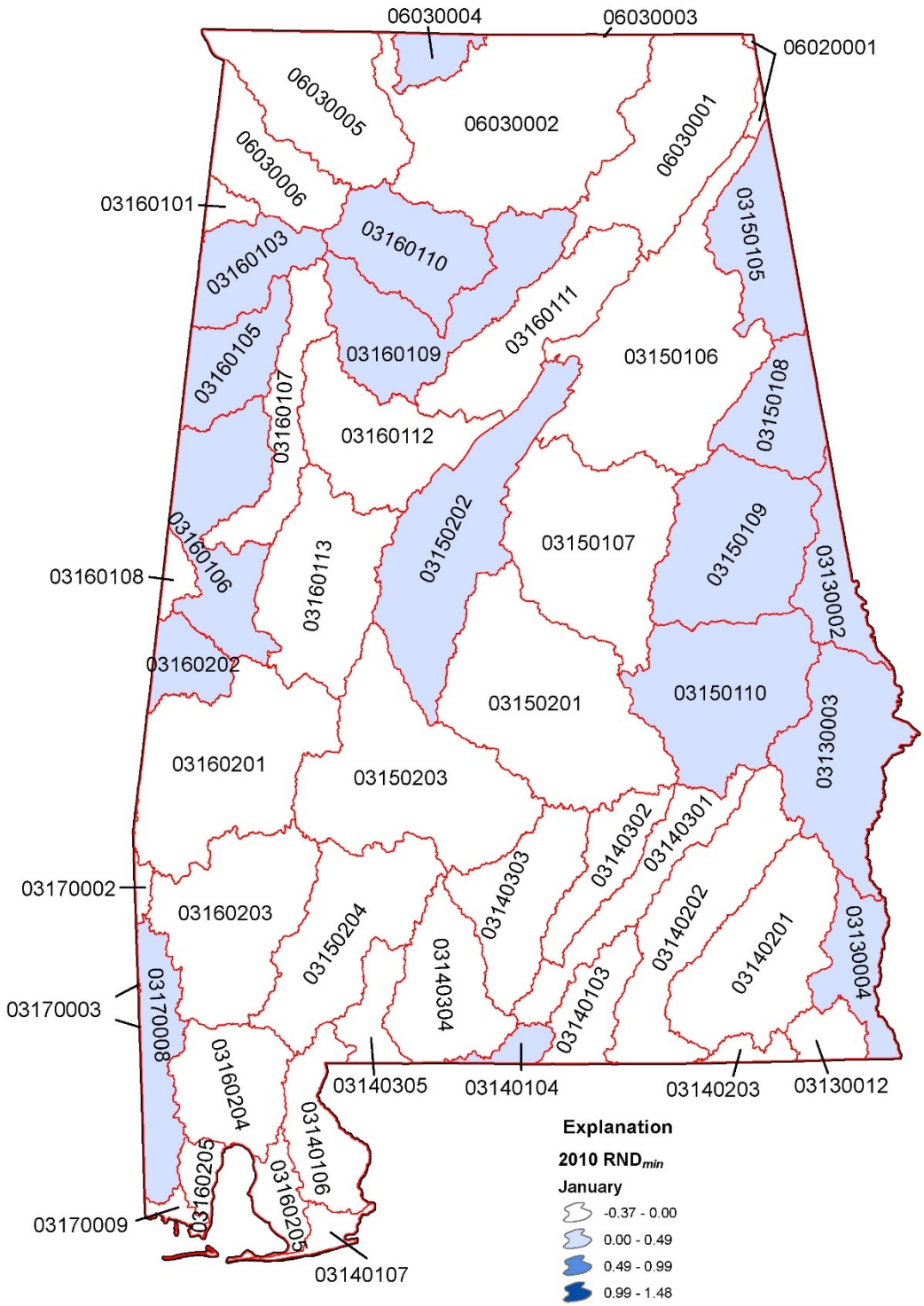


Figure J-2. Map of February 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

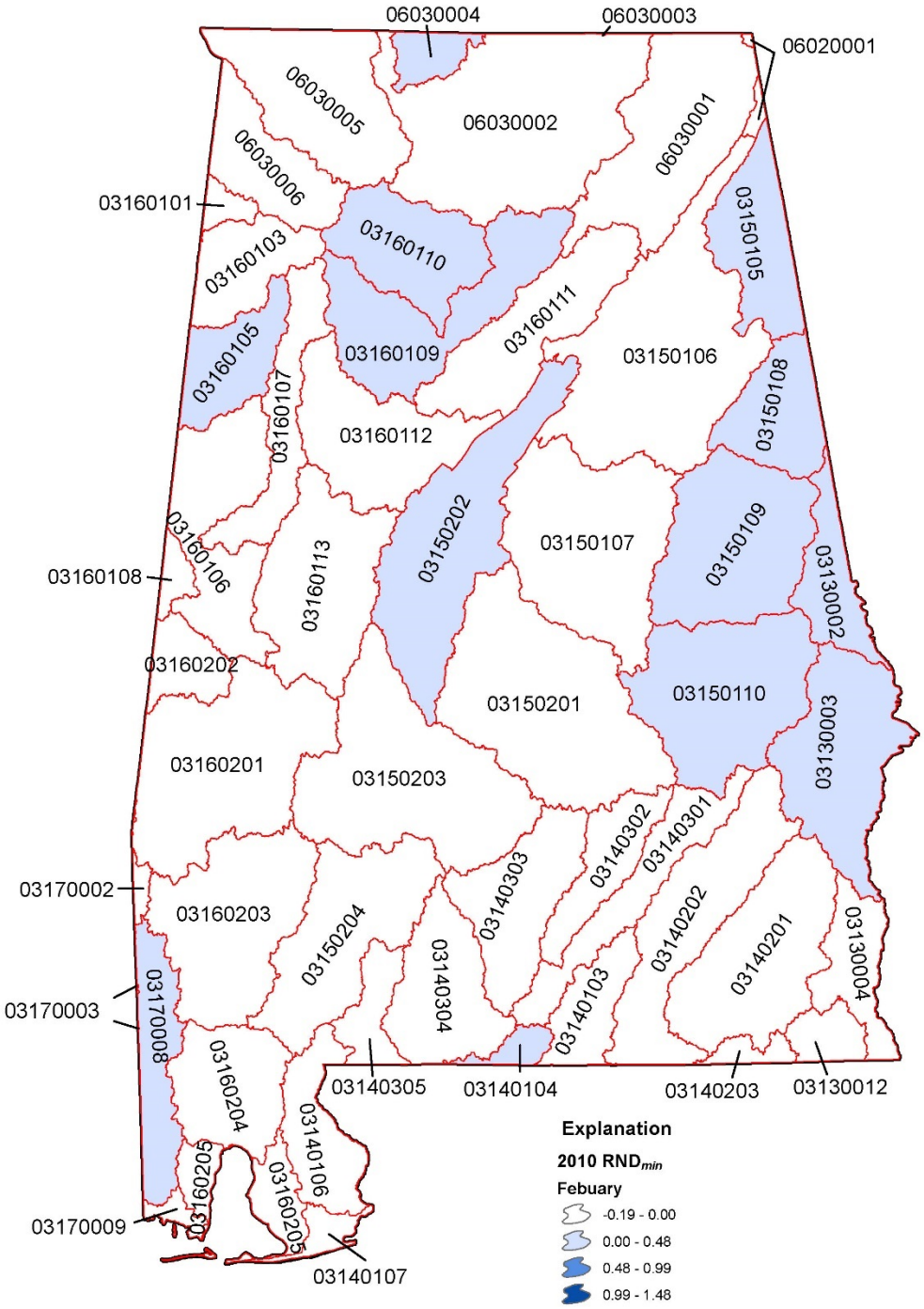


Figure J-3. Map of March 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

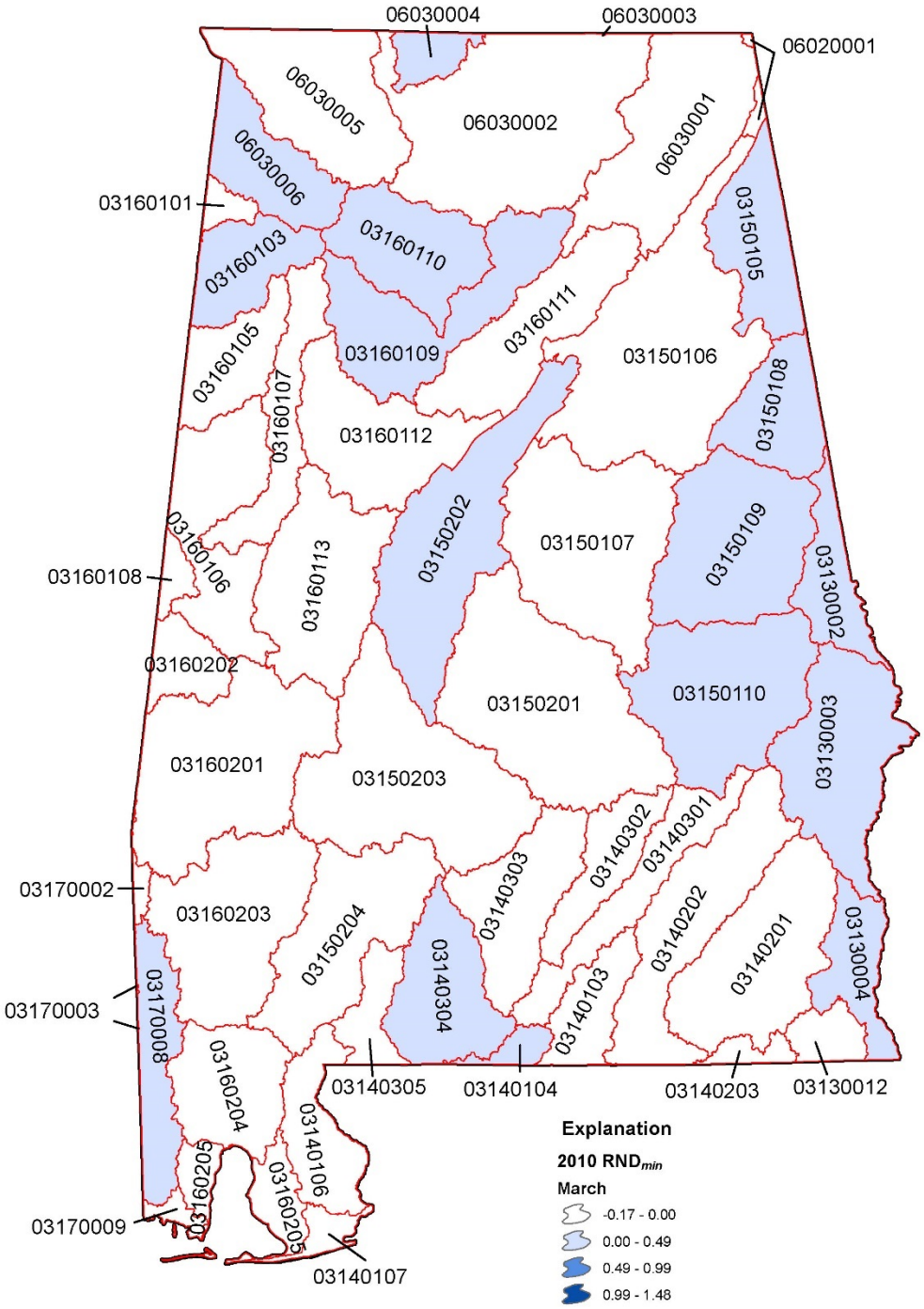


Figure J-4. Map of April 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

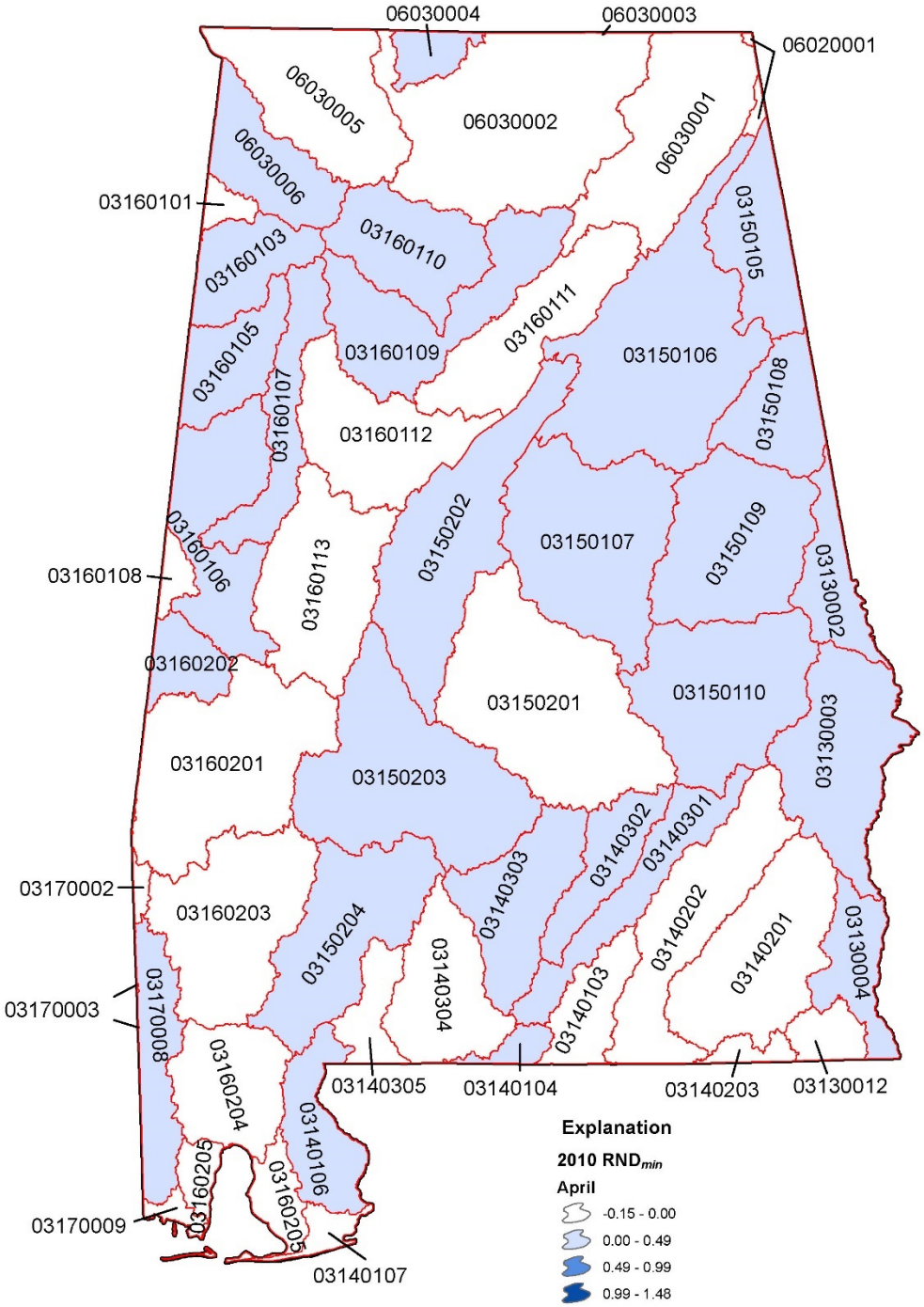


Figure J-5. Map of May 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

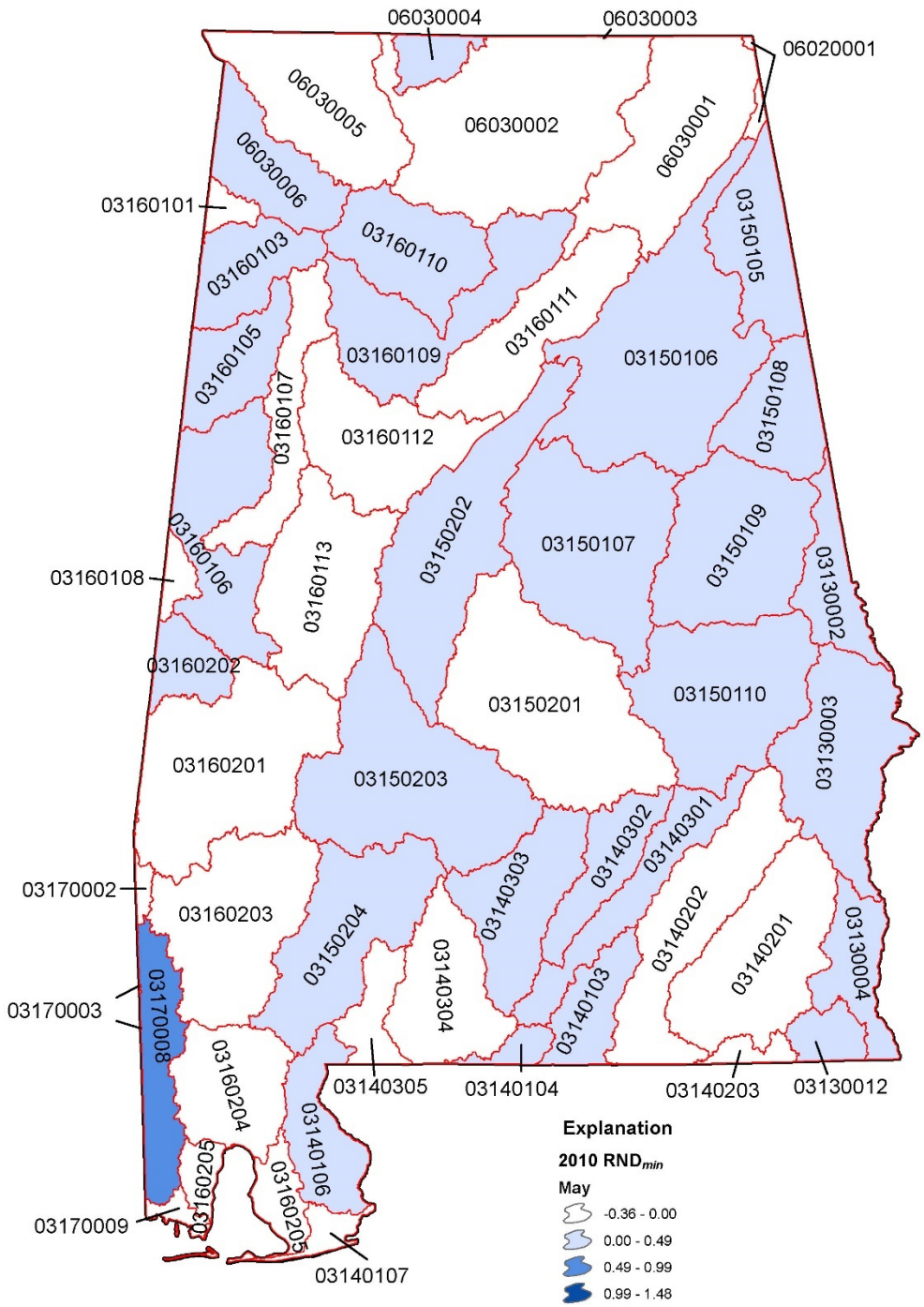


Figure J-6. Map of June 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

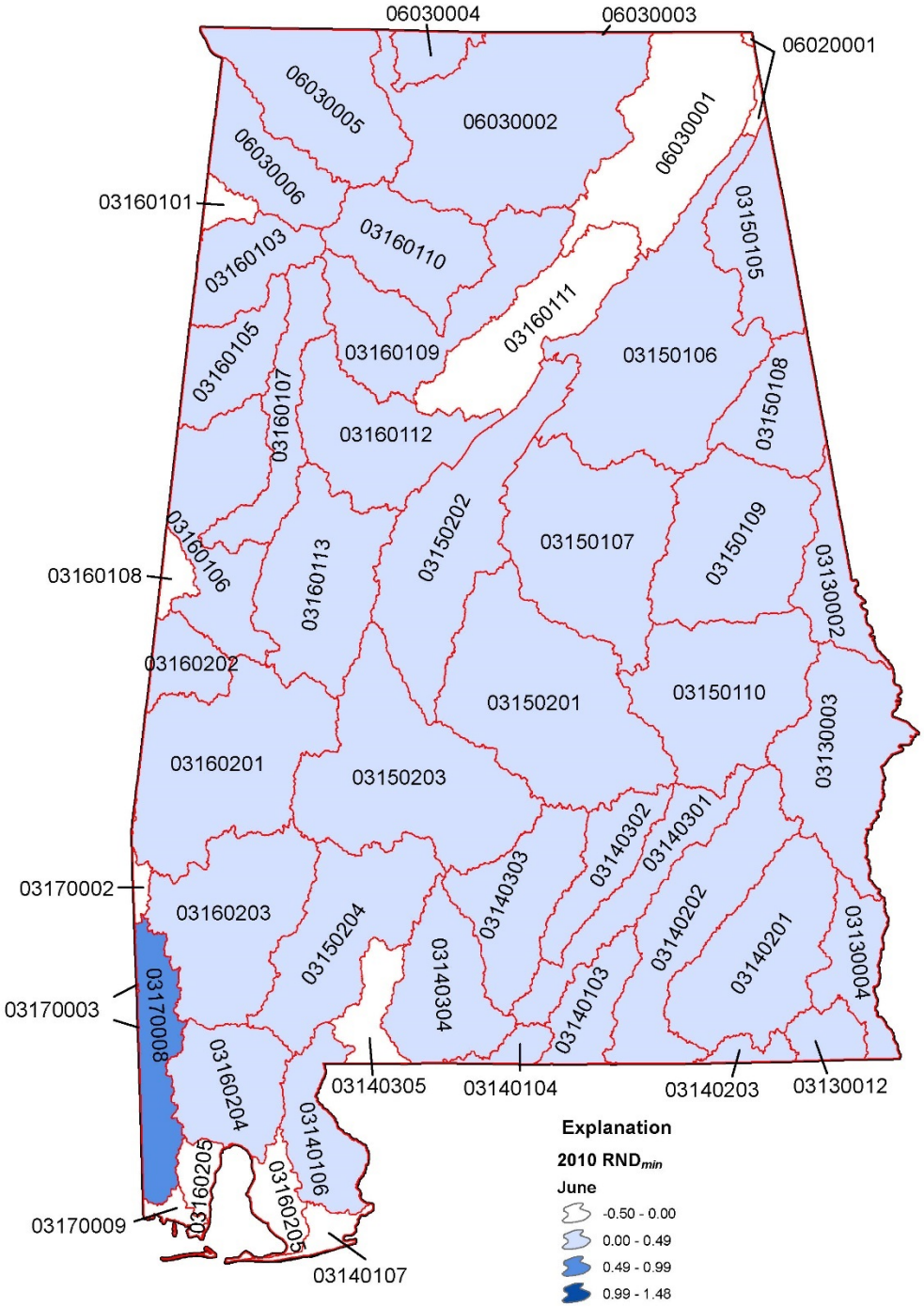


Figure J-7. Map of July 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

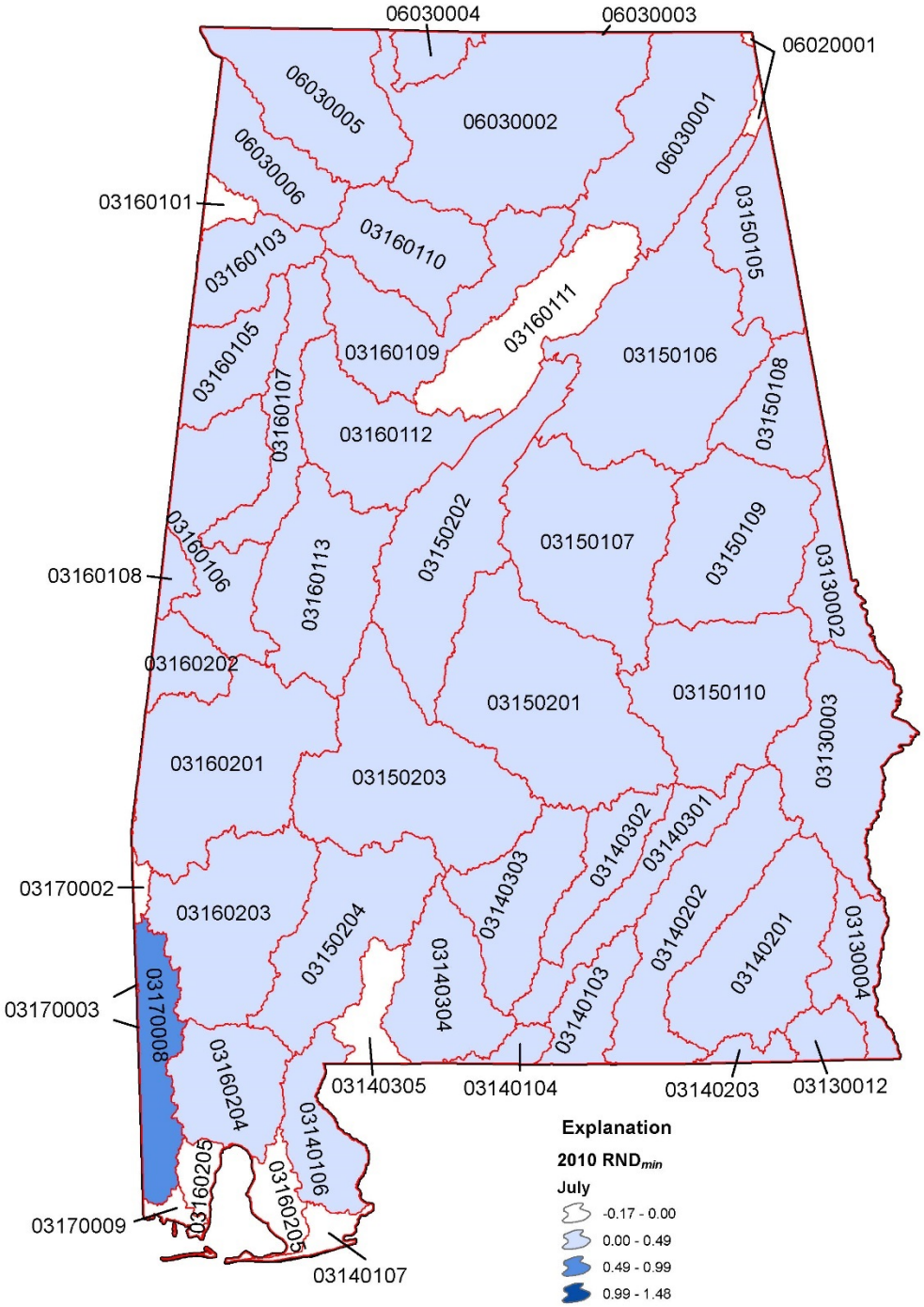


Figure J-8. Map of August 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

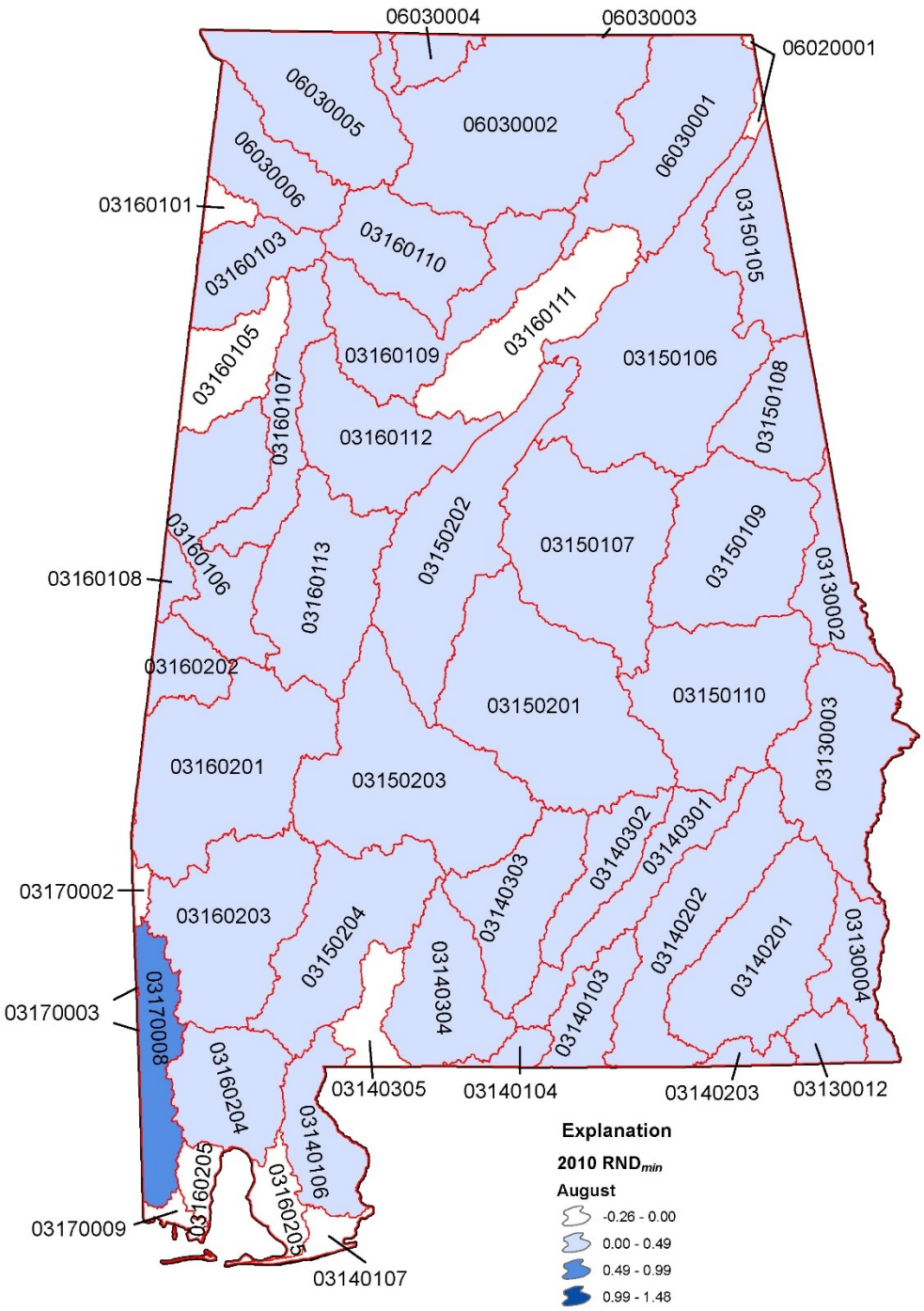


Figure J-9. Map of September 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

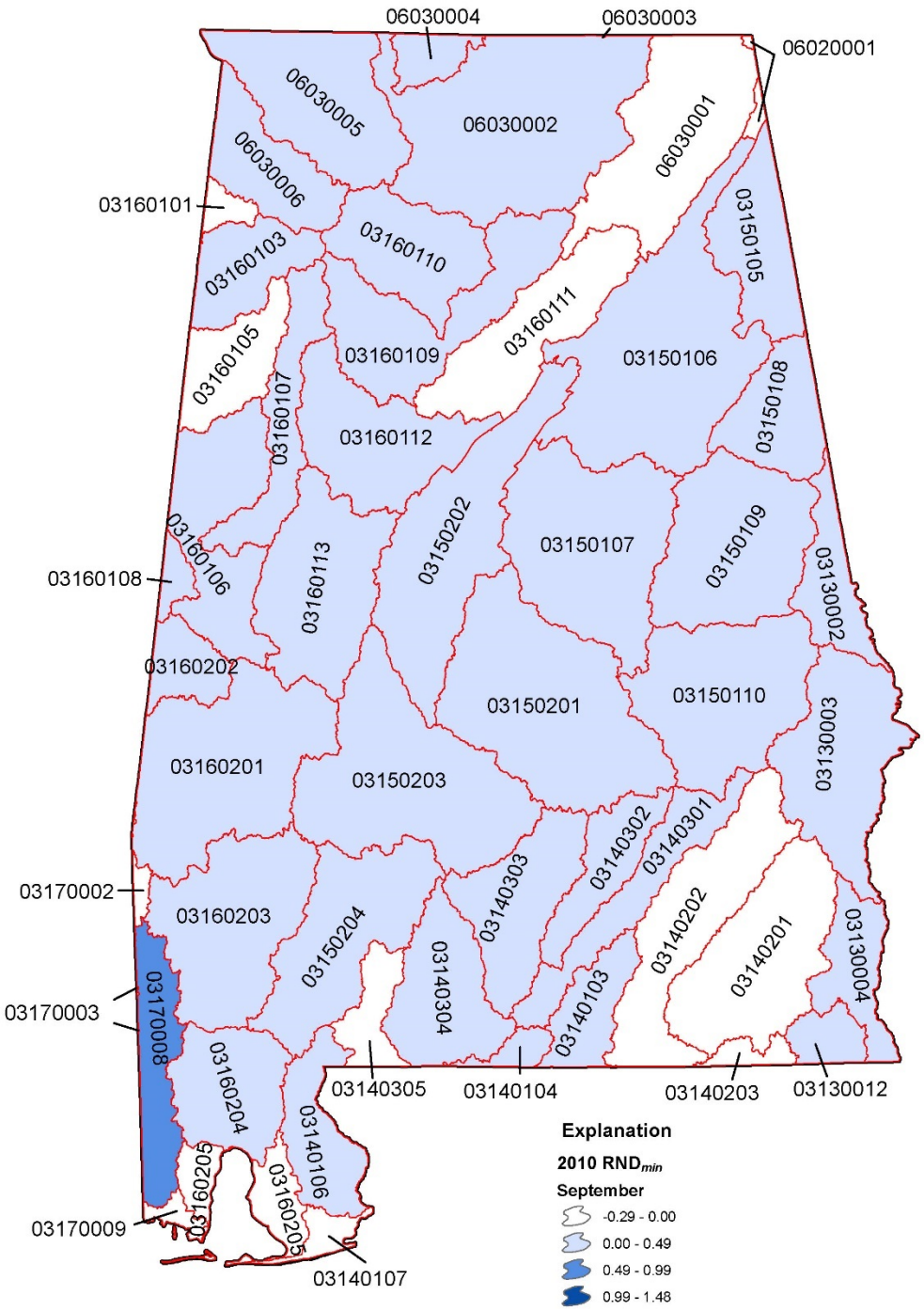


Figure J-10. Map of October 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

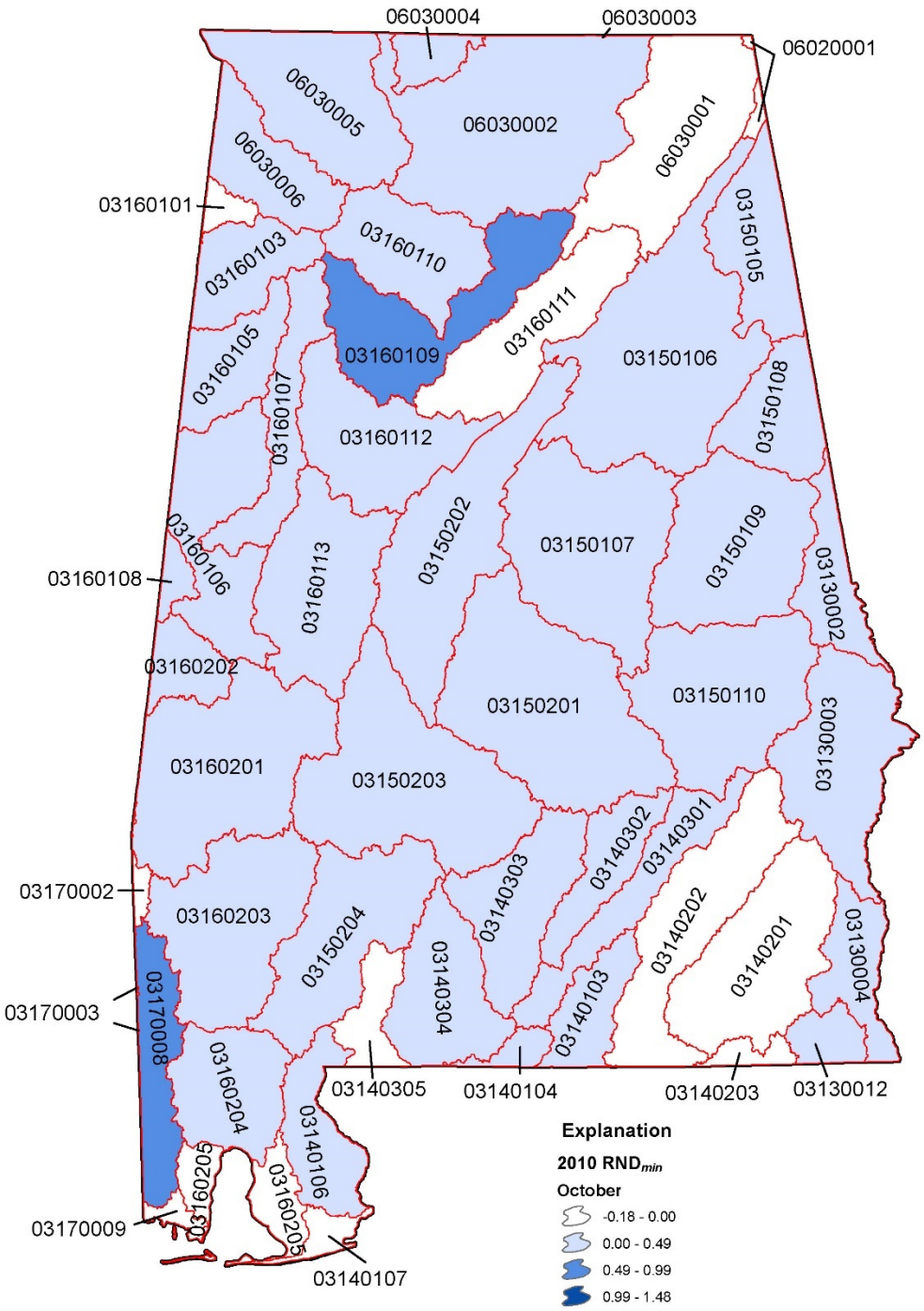


Figure J-11. Map of November 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

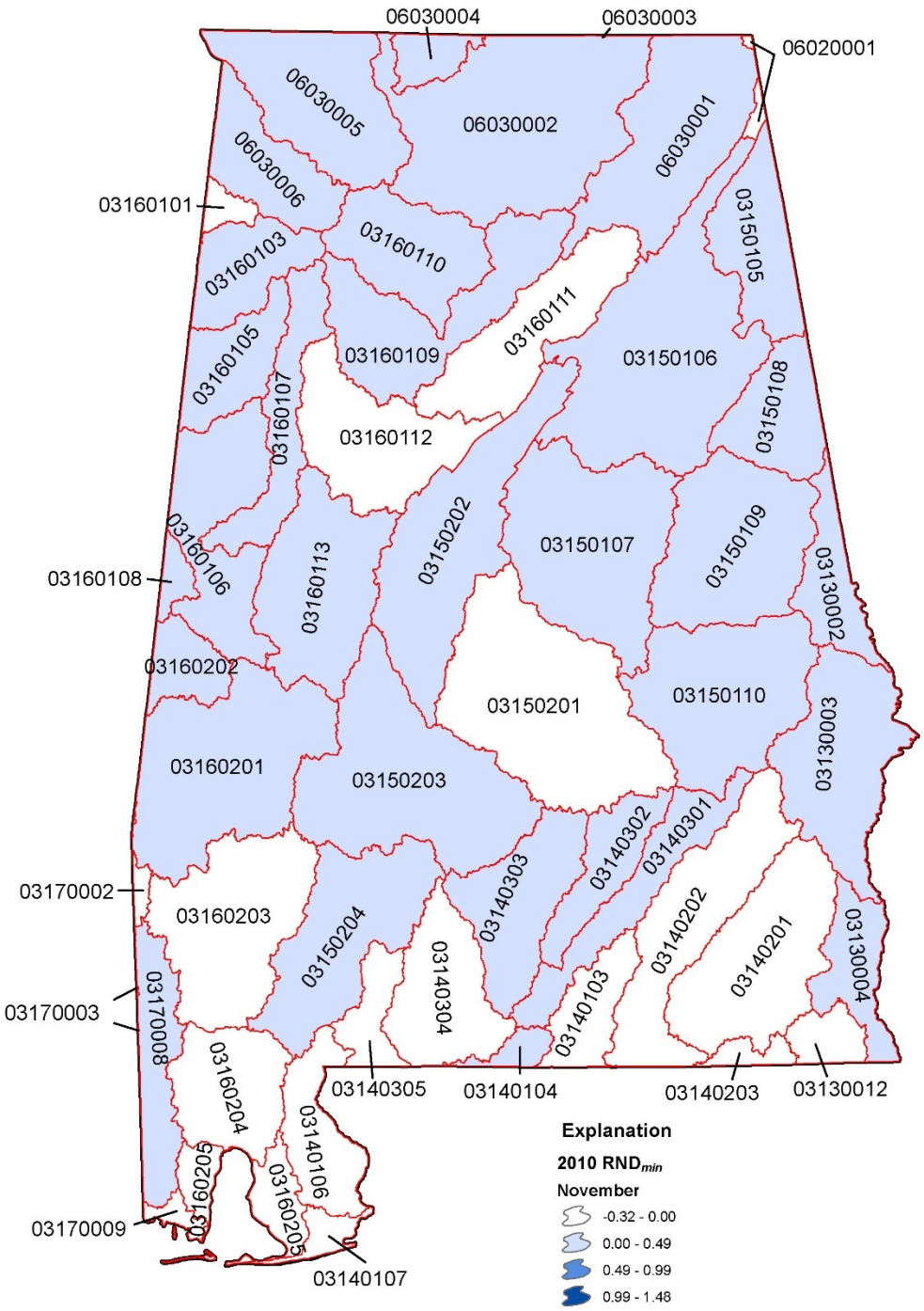


Figure J-12. Map of December 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

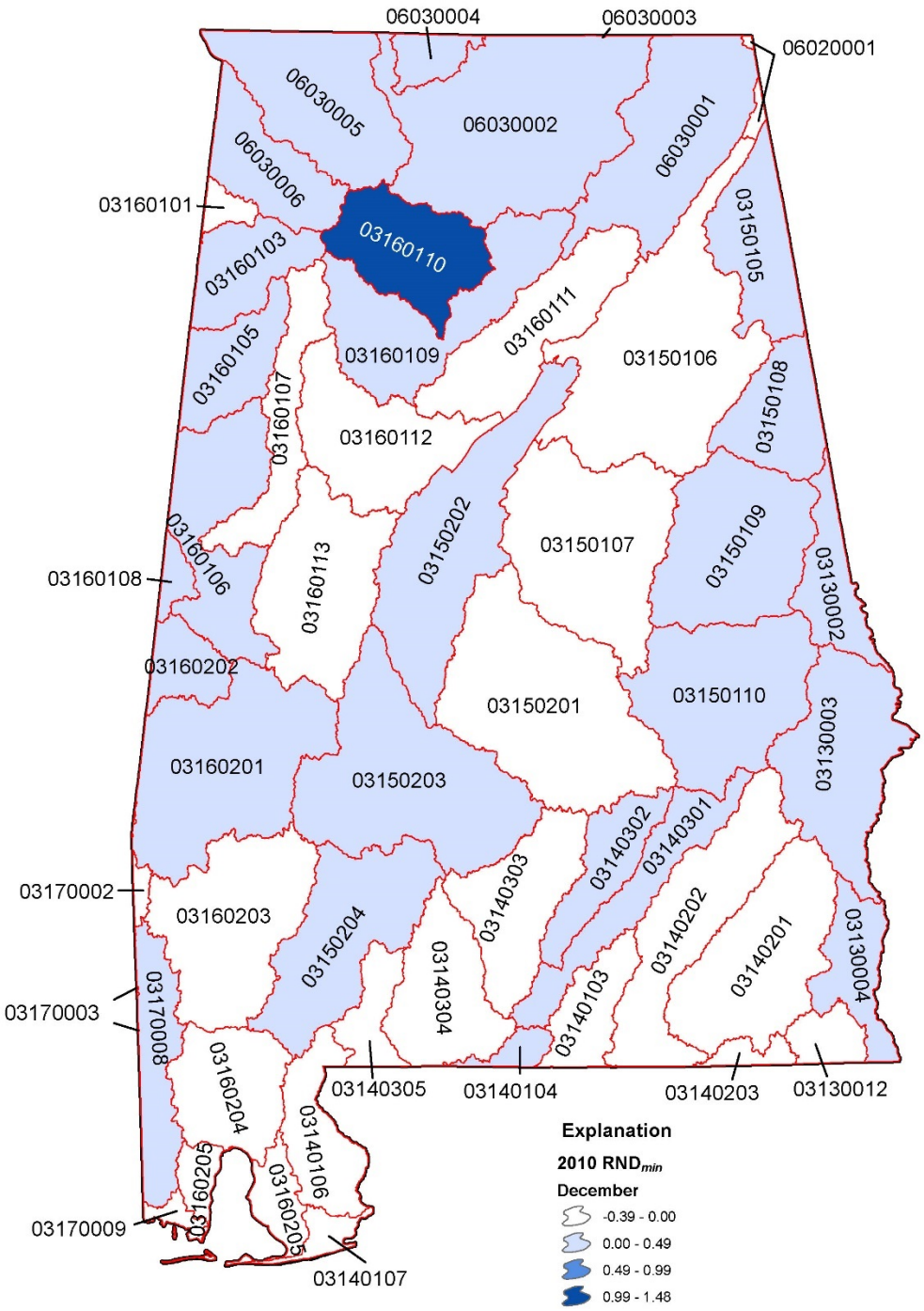


Figure J-13. Map of January – March seasonal 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

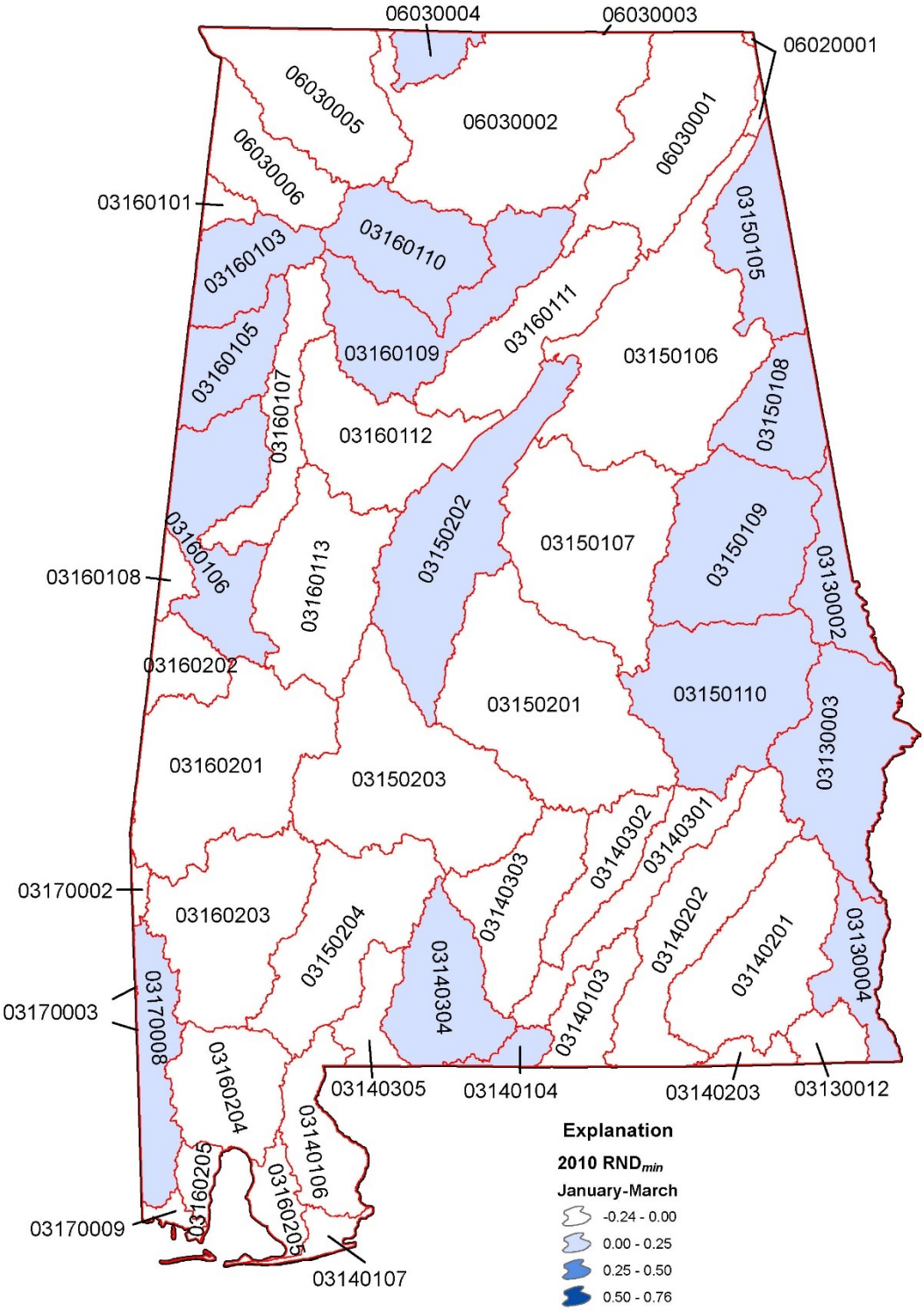


Figure J-14. Map of April - June seasonal 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

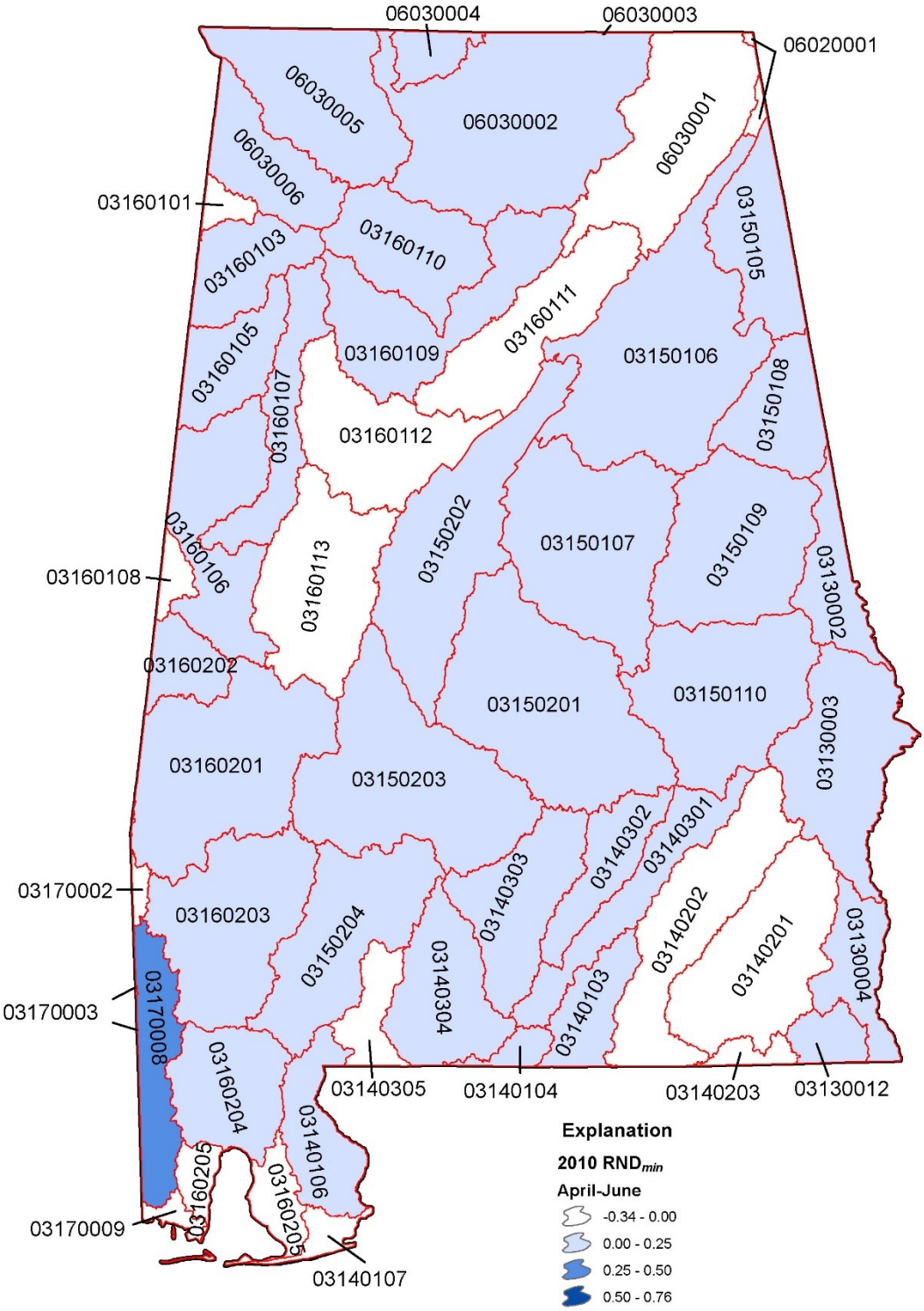


Figure J-15. Map of July - September seasonal 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

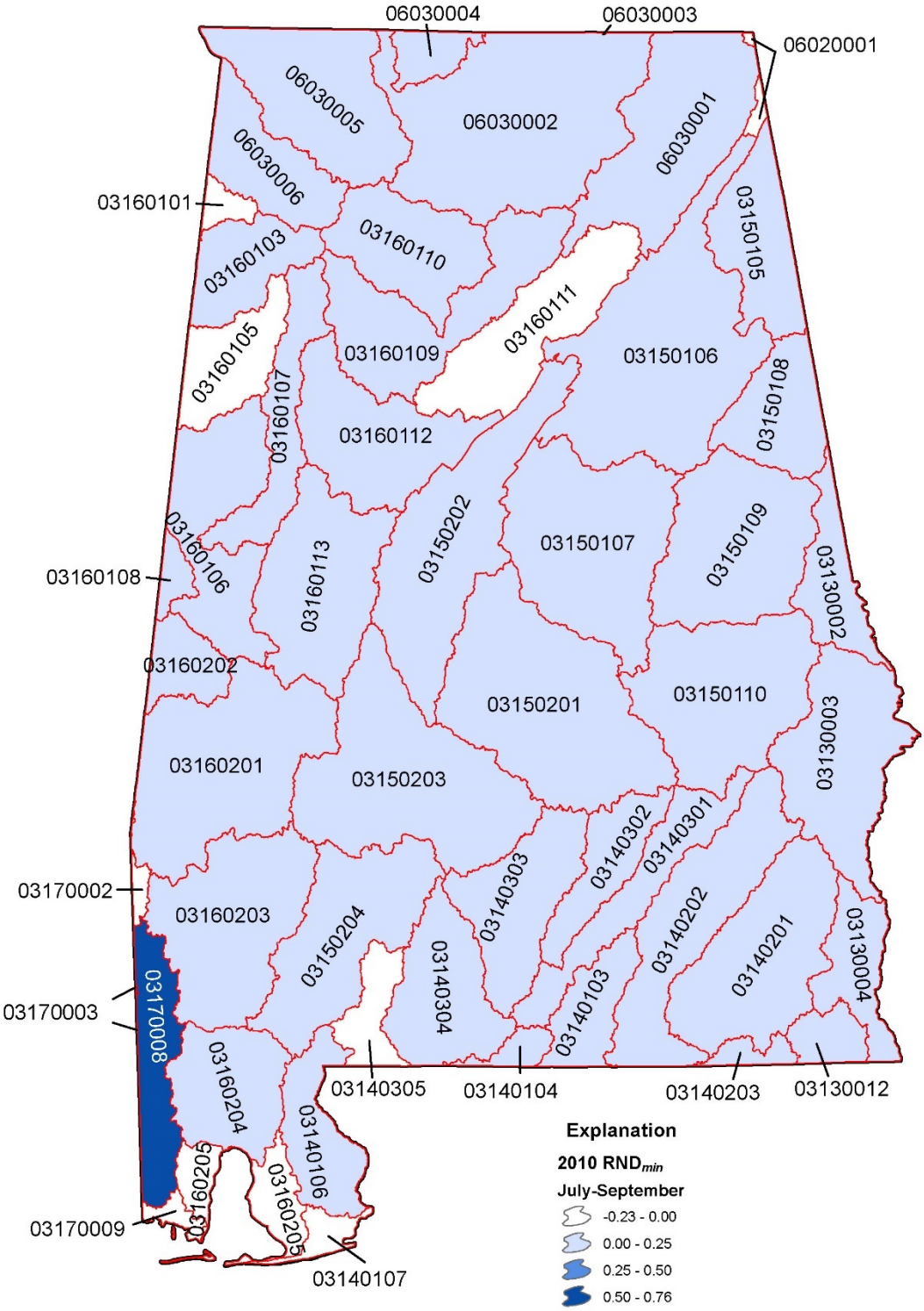


Figure J-16. Map of October - December seasonal 2010 minimum Relative Net Demand (RND) ratios (2010 RND_{min}) by subbasin.

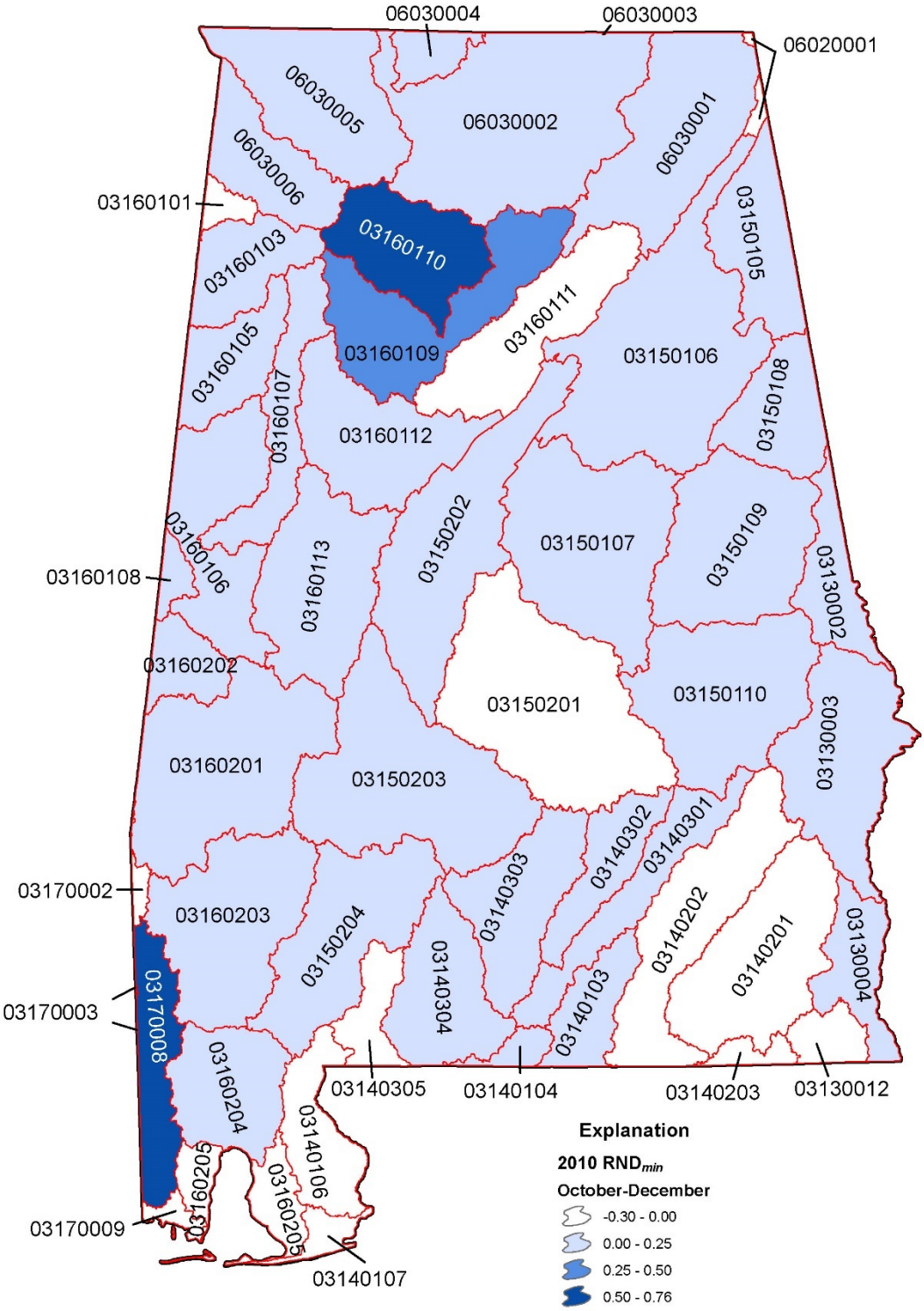


Figure J-17. Map of January 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

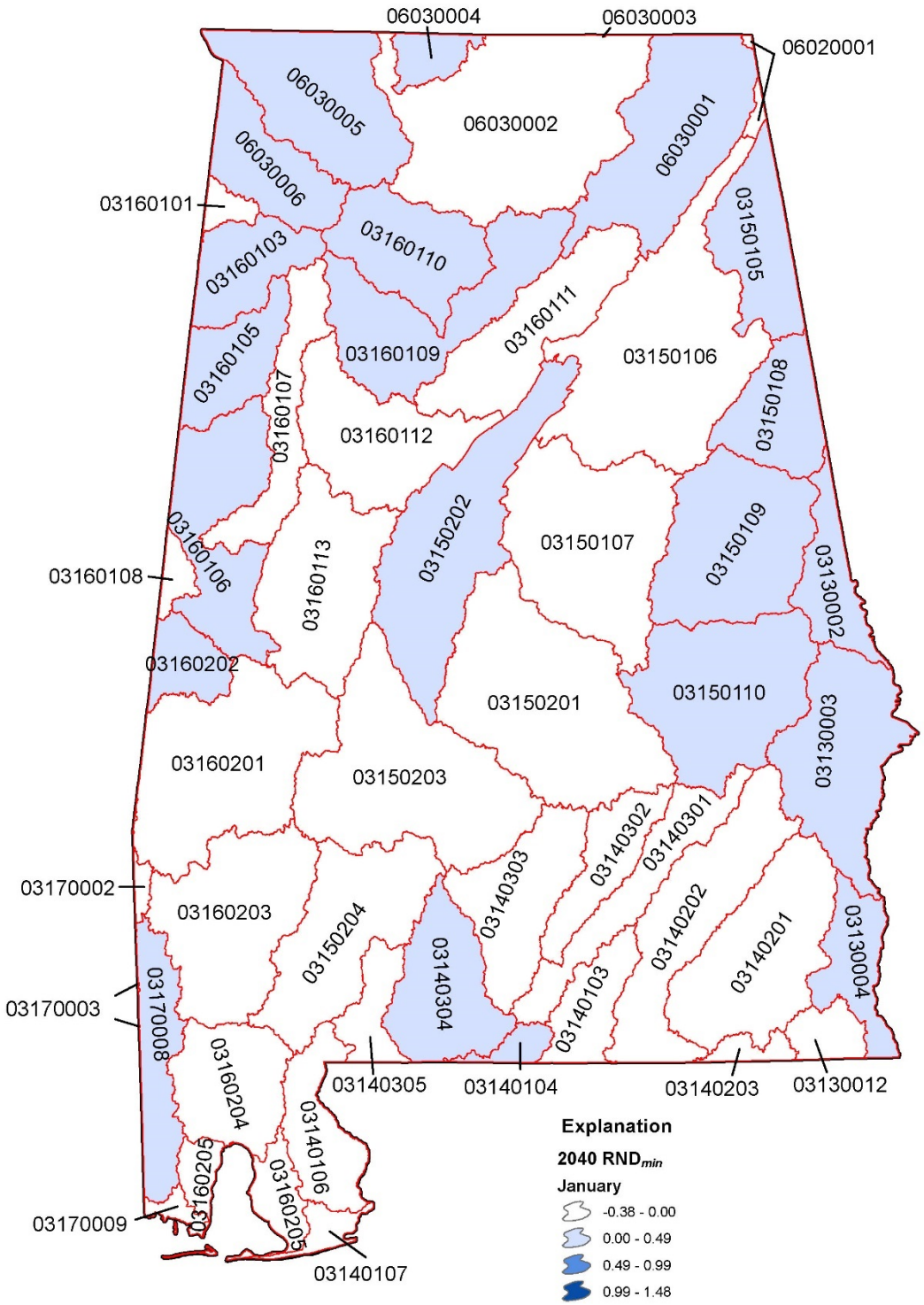


Figure J-18. Map of February 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

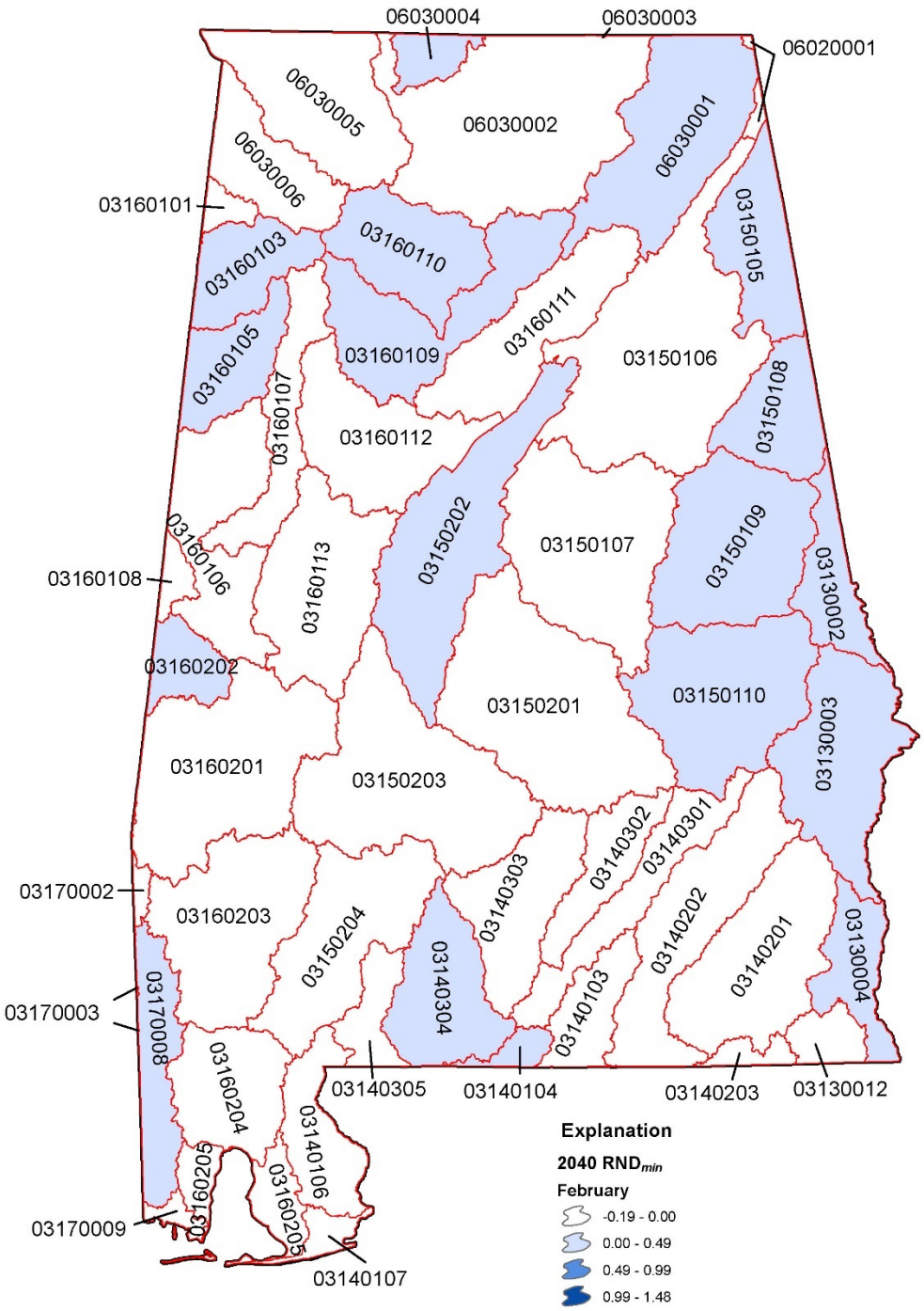


Figure J-19. Map of March 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

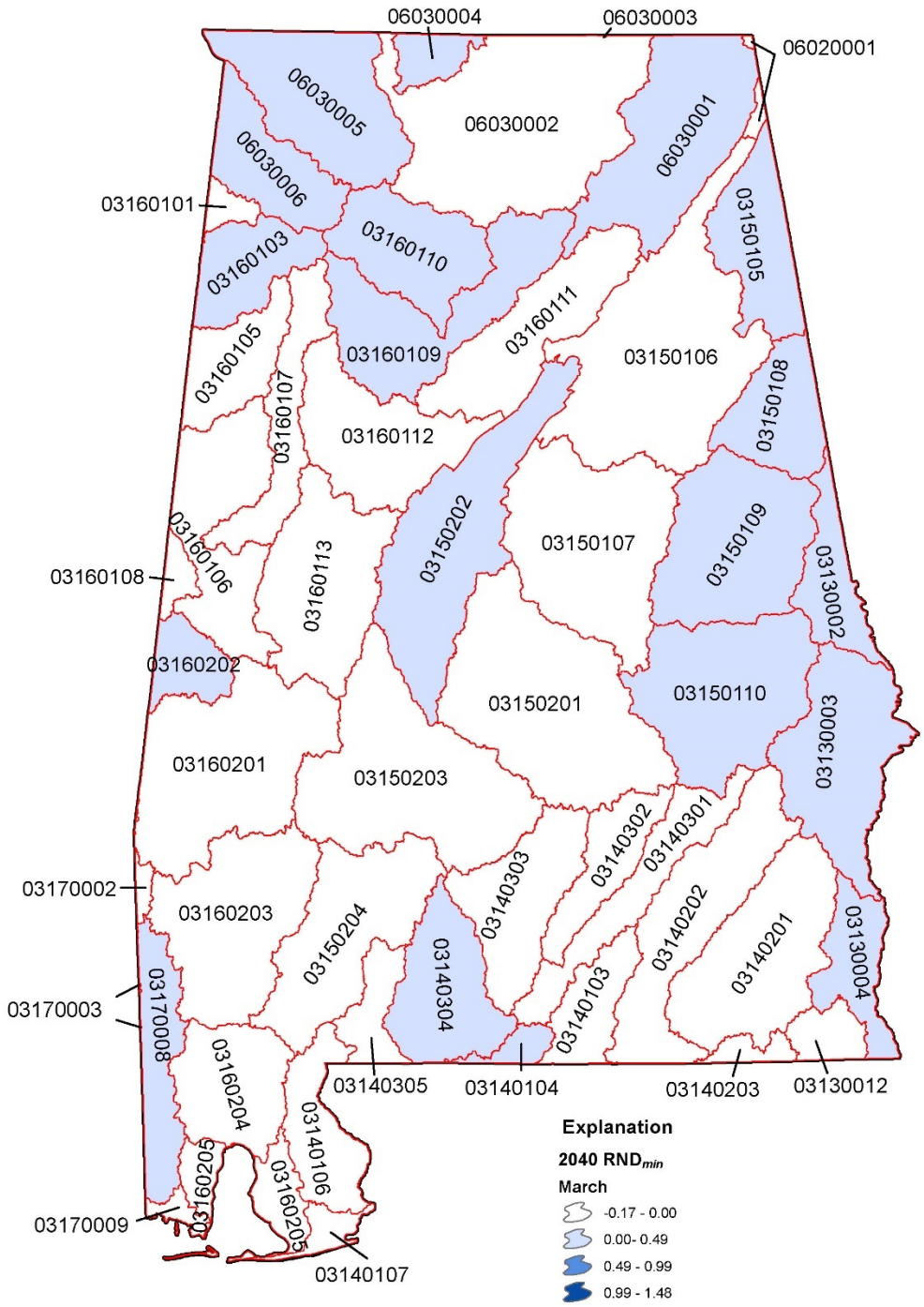


Figure J-20. Map of April 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

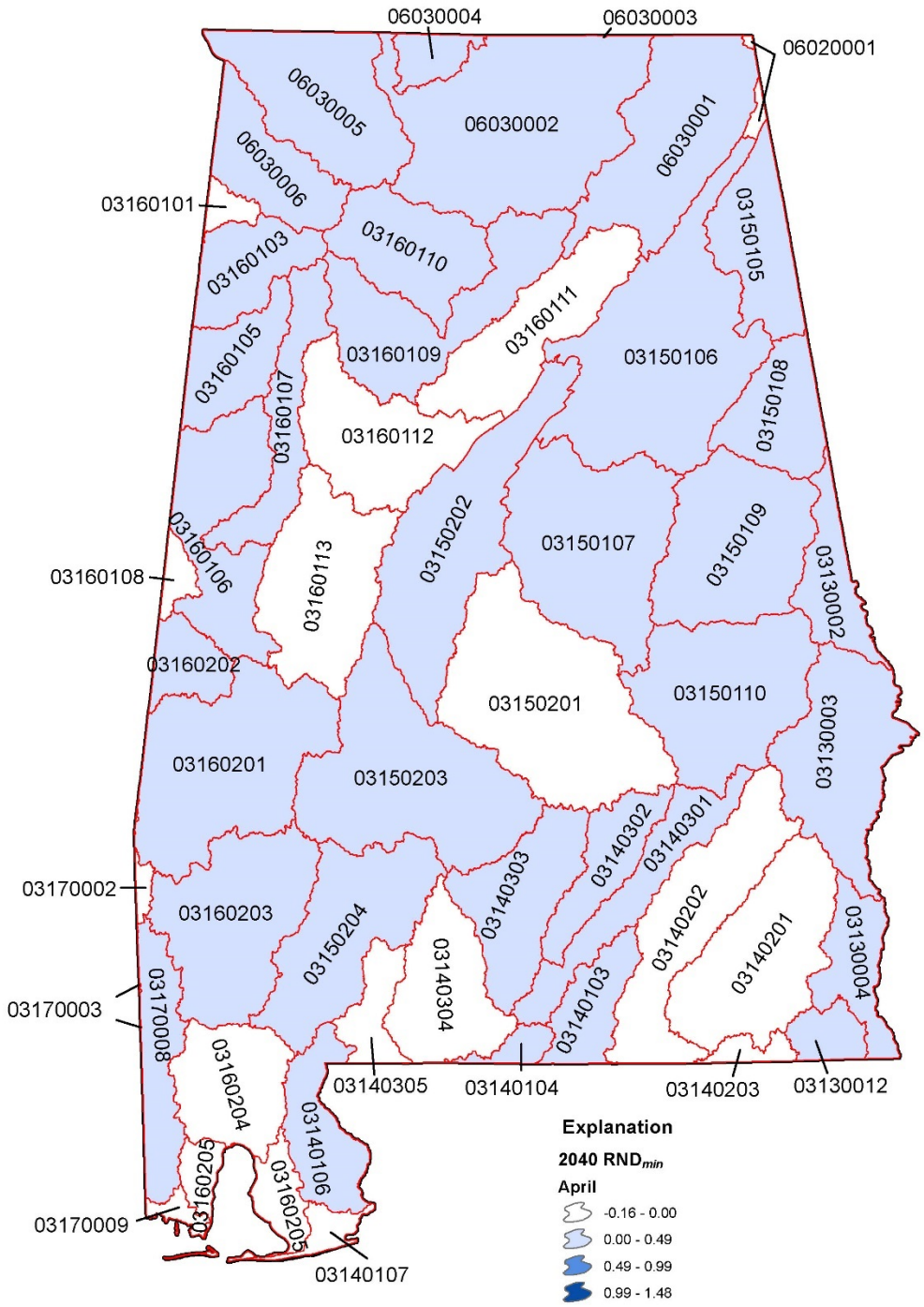


Figure J-21. Map of May 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

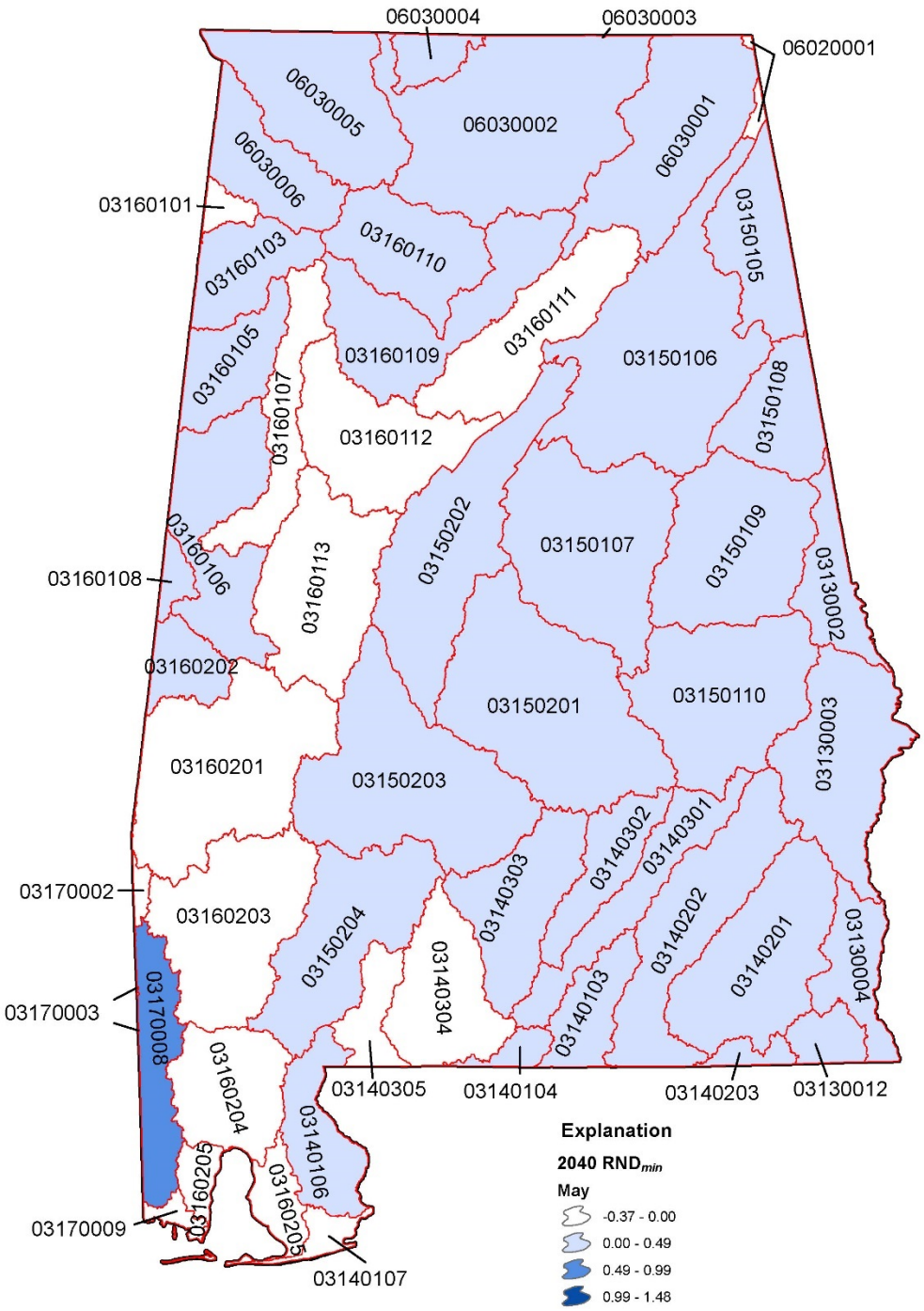


Figure J-22. Map of June 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

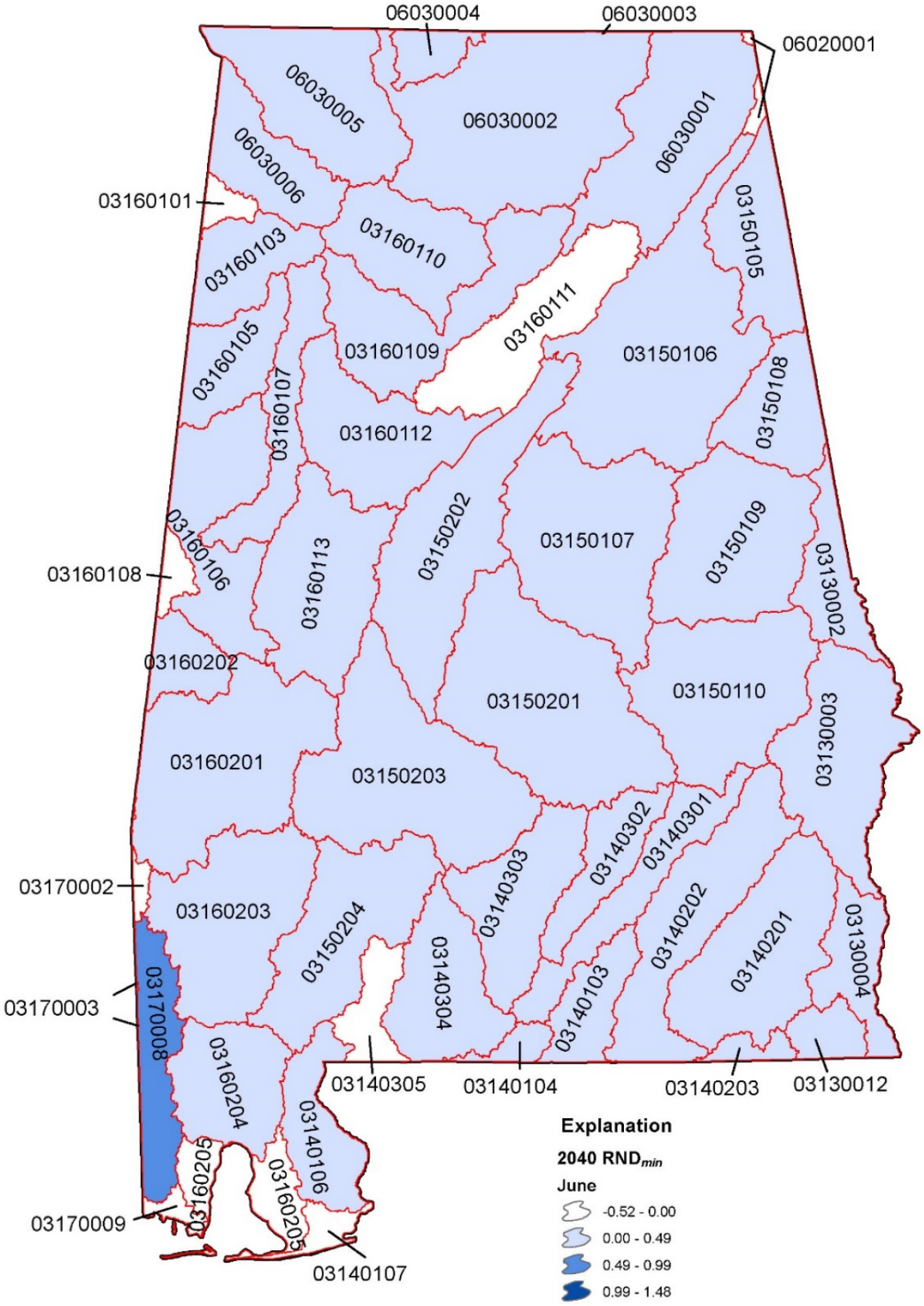


Figure J-23. Map of July 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

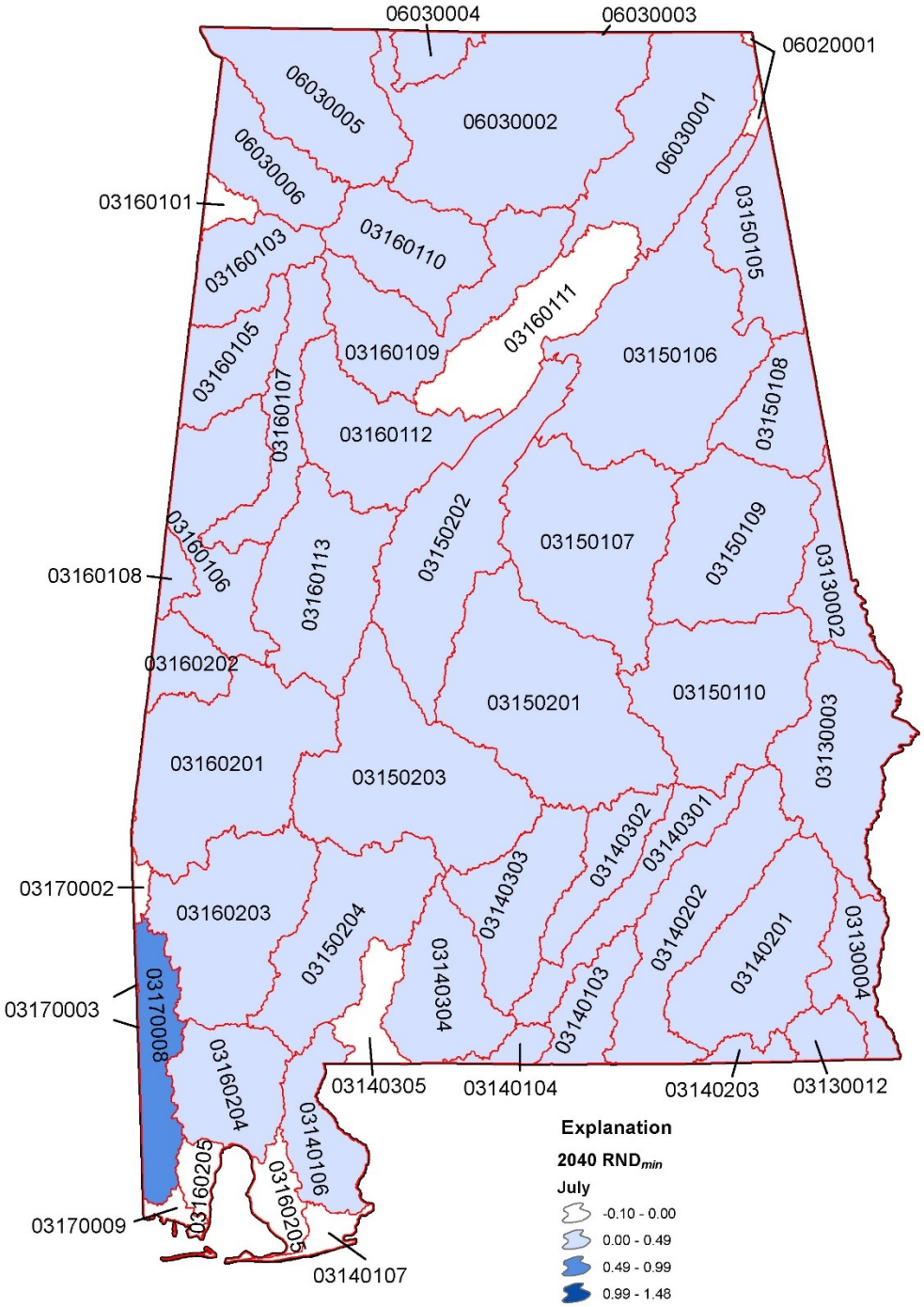


Figure J-24. Map of August 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

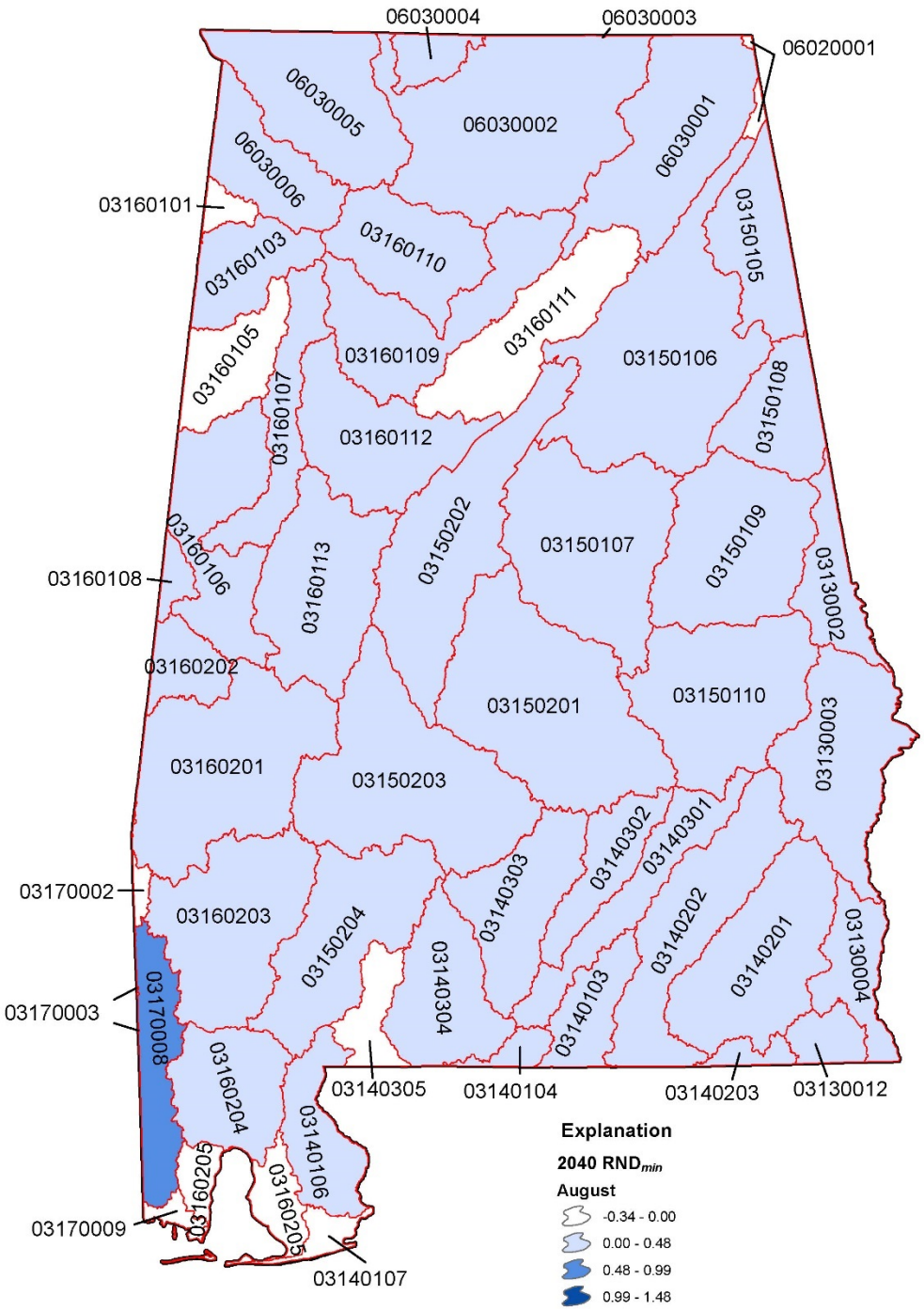


Figure J-25. Map of September 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

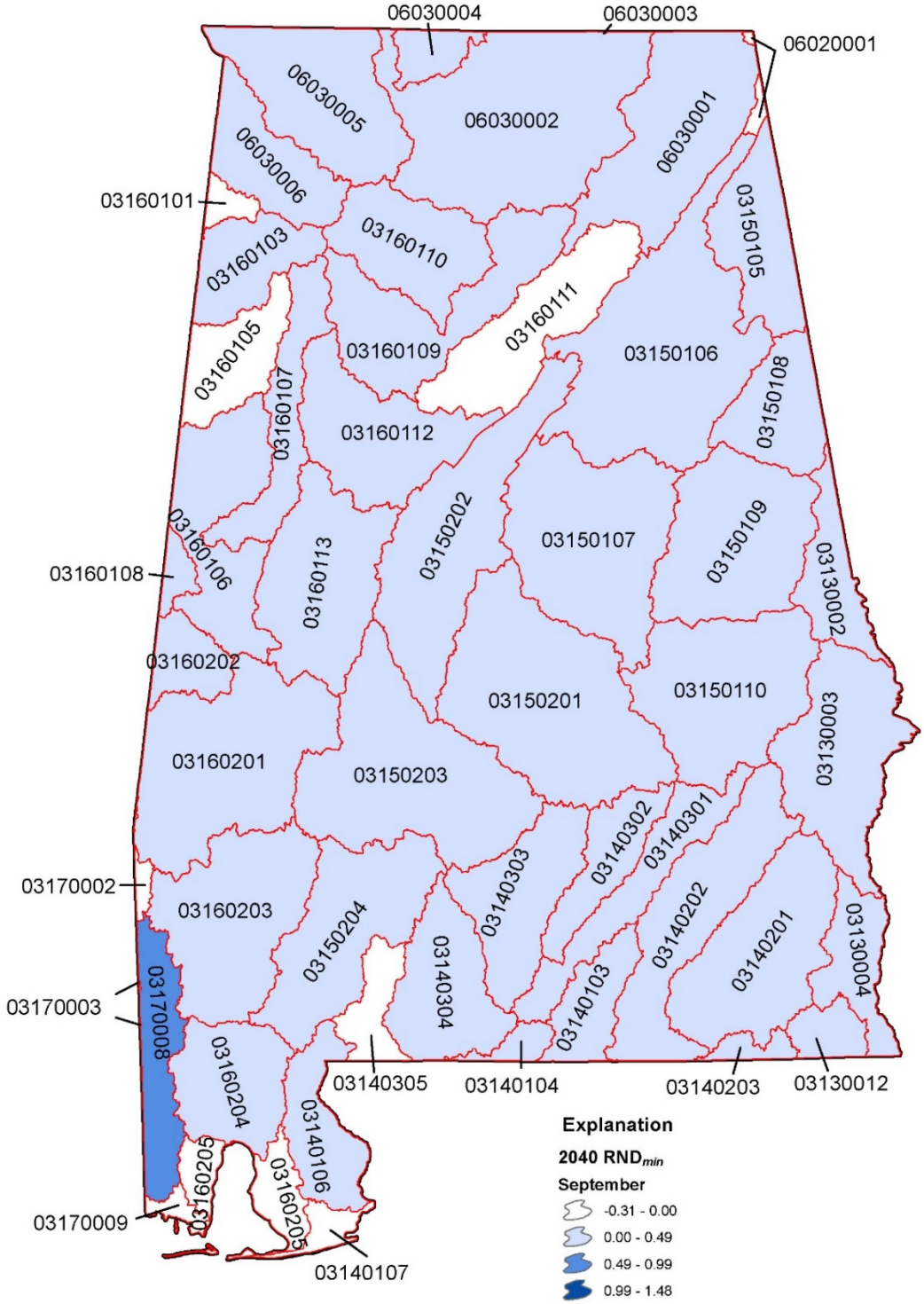


Figure J-26. Map of October 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

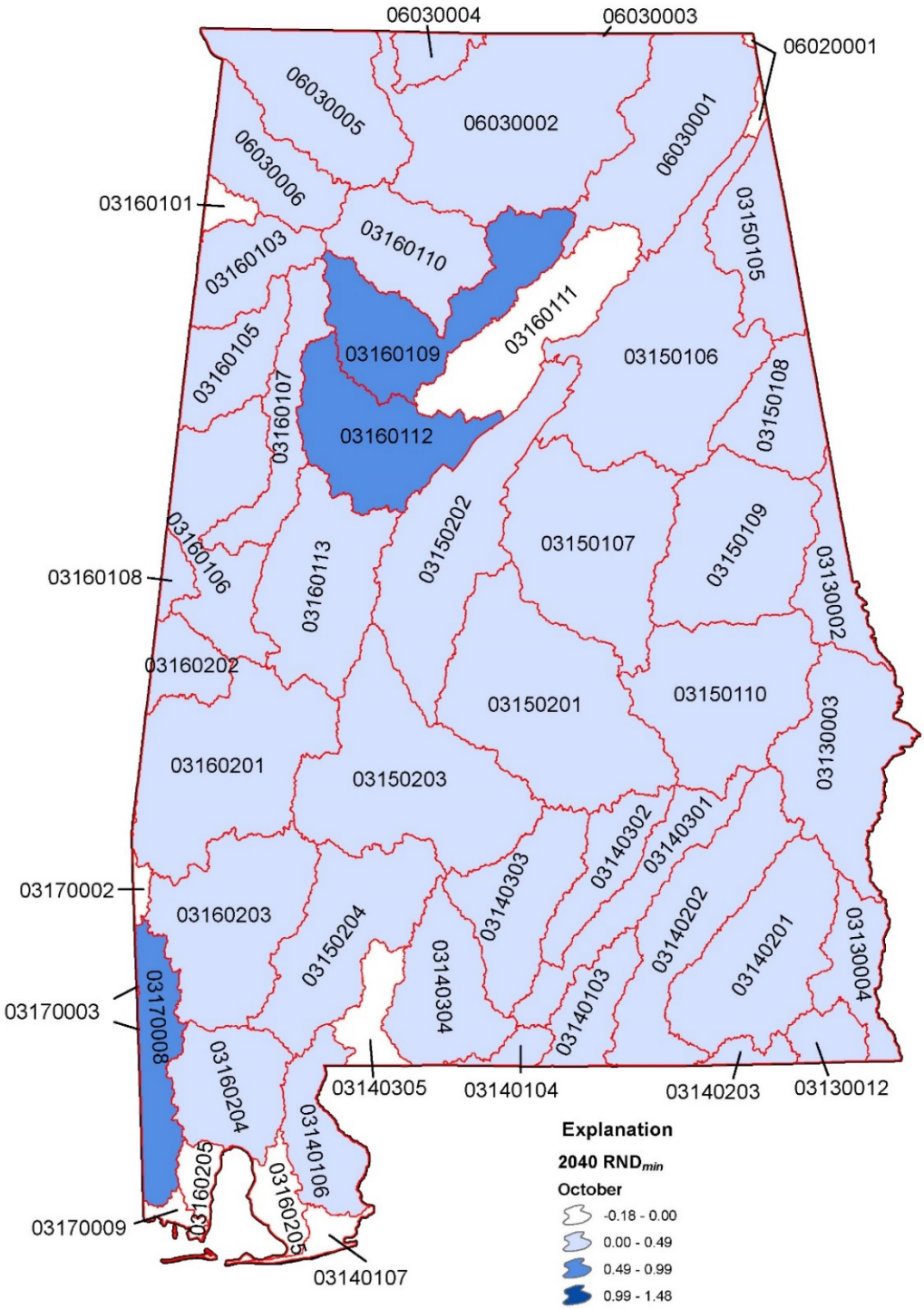


Figure J-27. Map of November 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

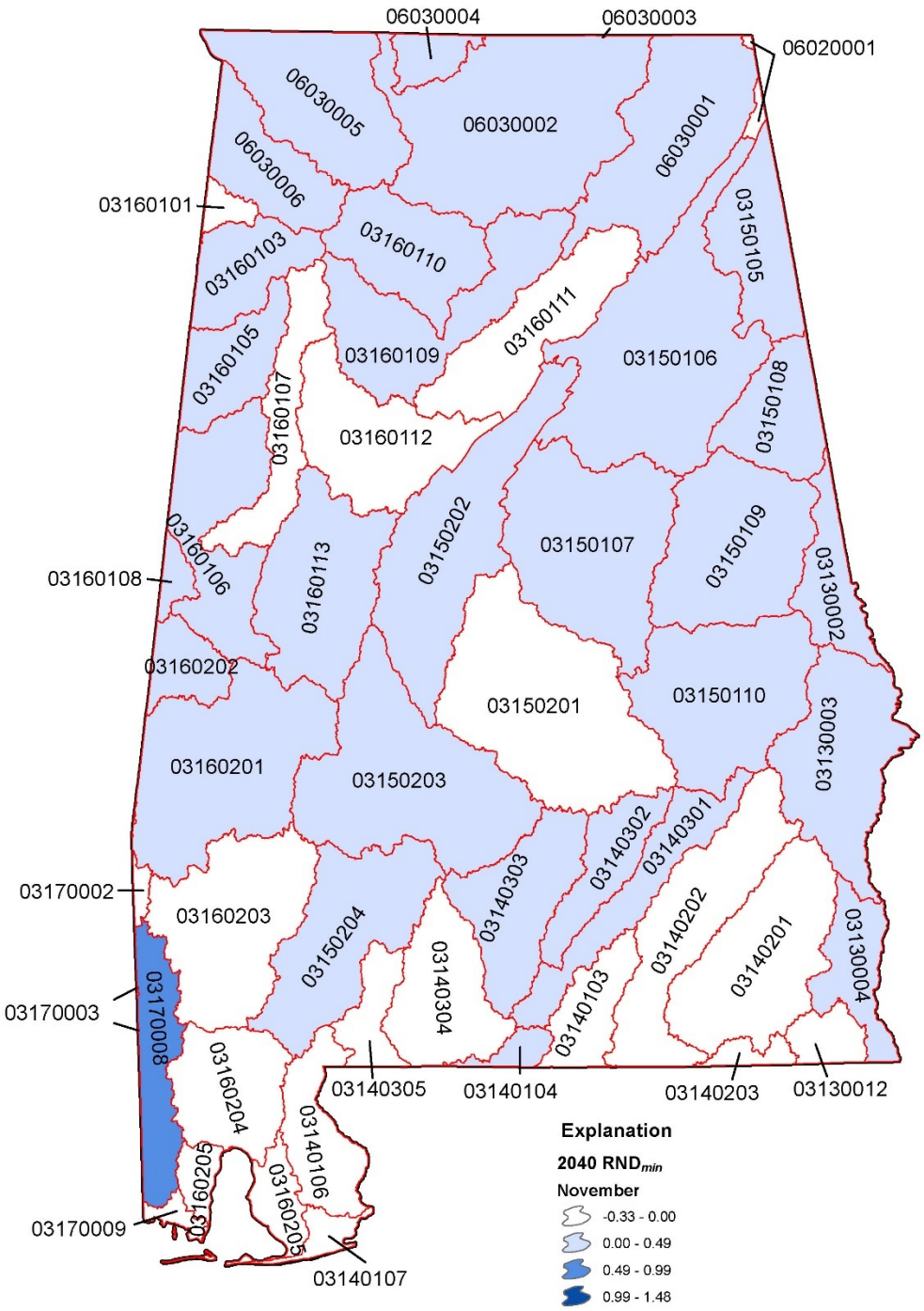


Figure J-28. Map of December 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

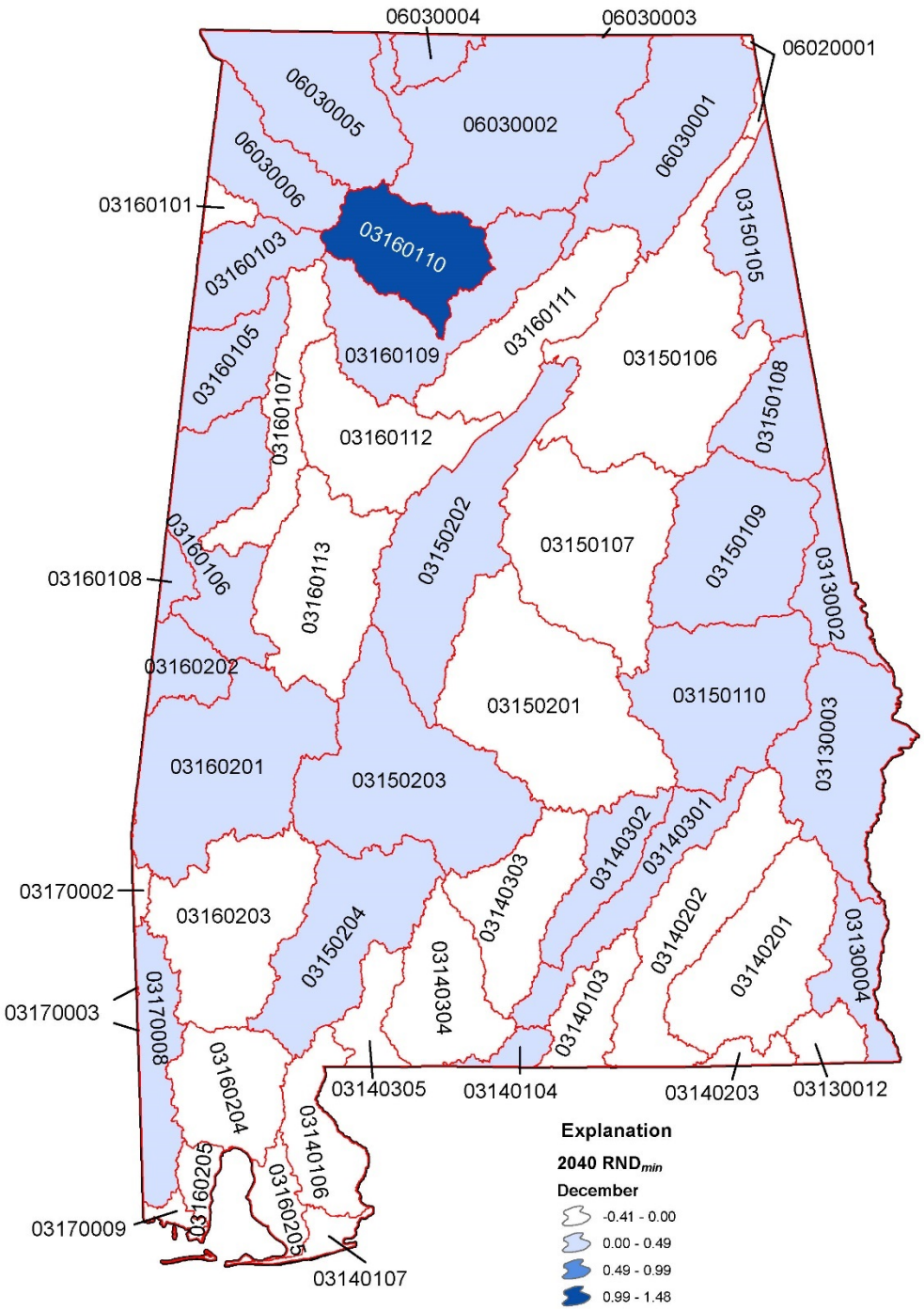


Figure J-29. Map of January – March seasonal 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

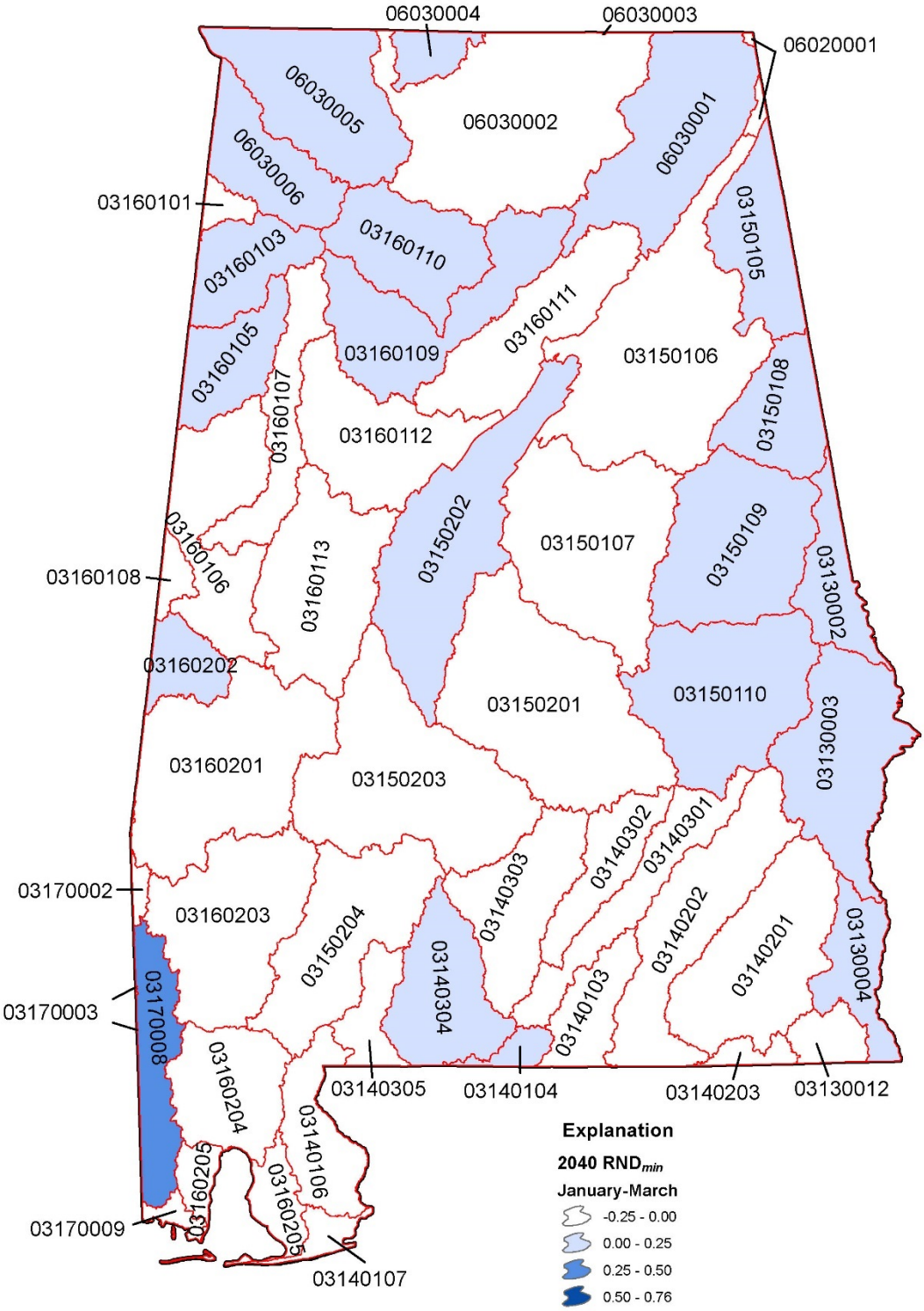


Figure J-30. Map of April - June seasonal 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

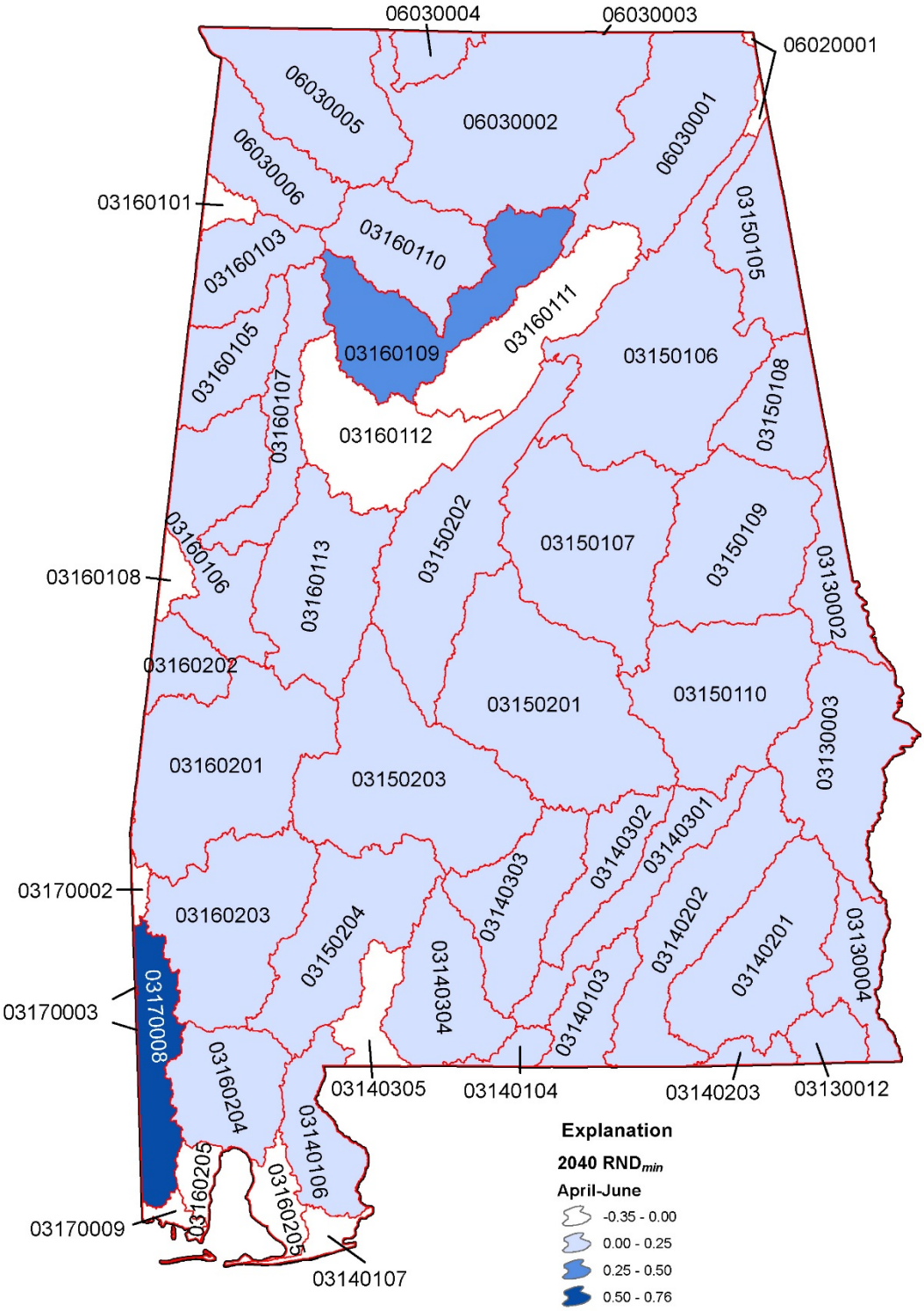


Figure J-31. Map of July - September seasonal 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

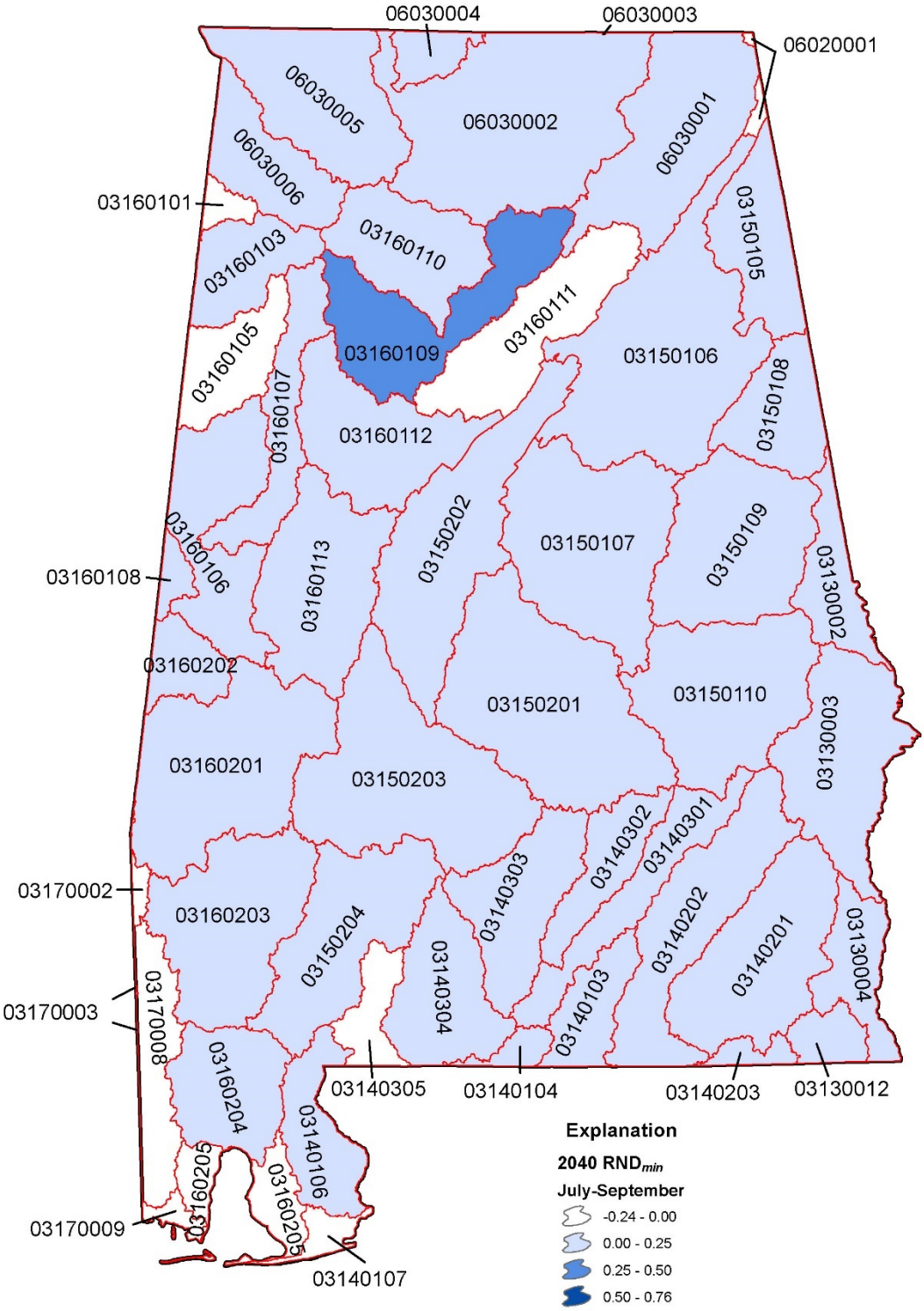


Figure J-32. Map of October - December seasonal 2040 minimum Relative Net Demand (RND) ratios (2040 RND_{min}) by subbasin.

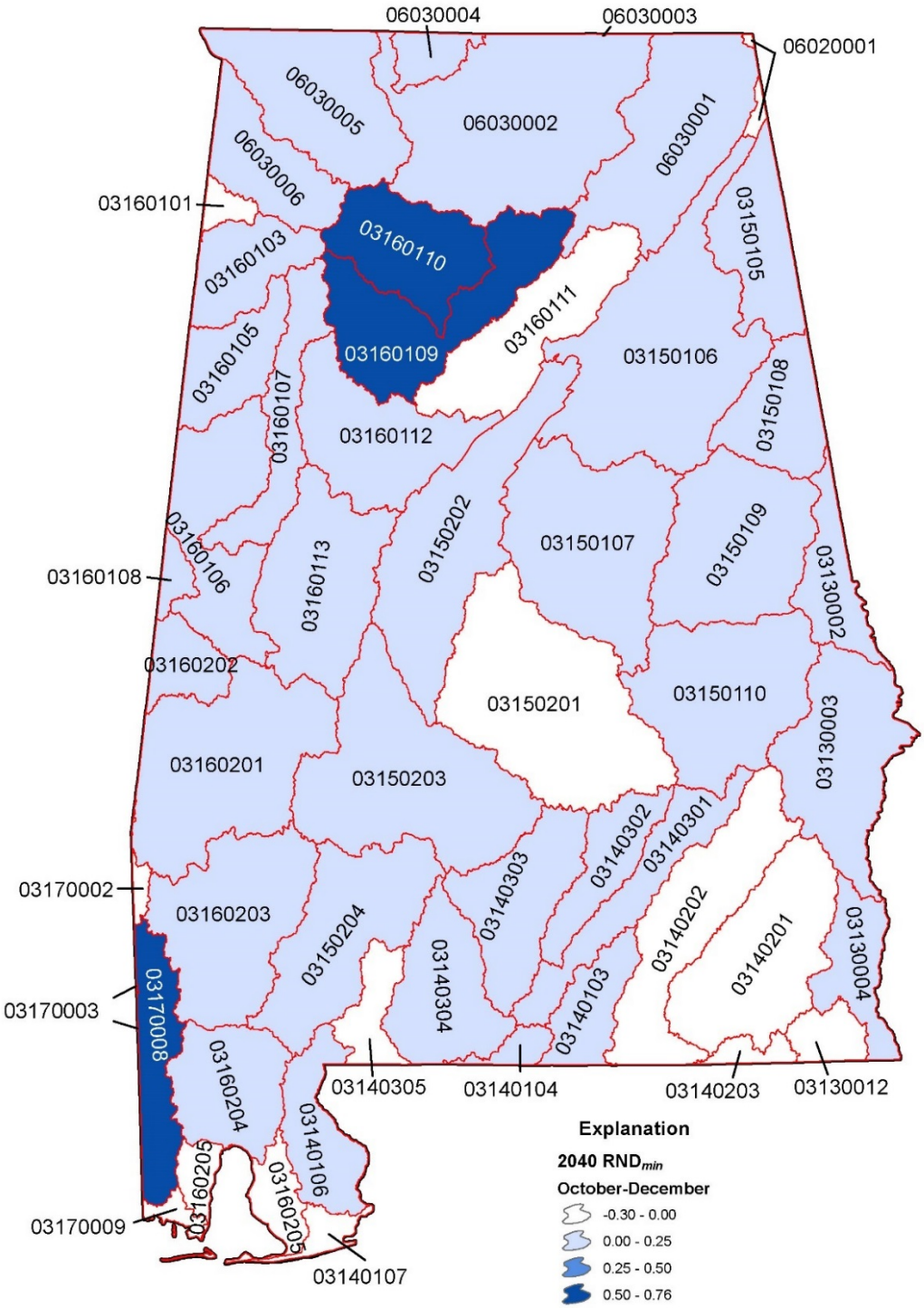


Figure J-33. Map of January 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

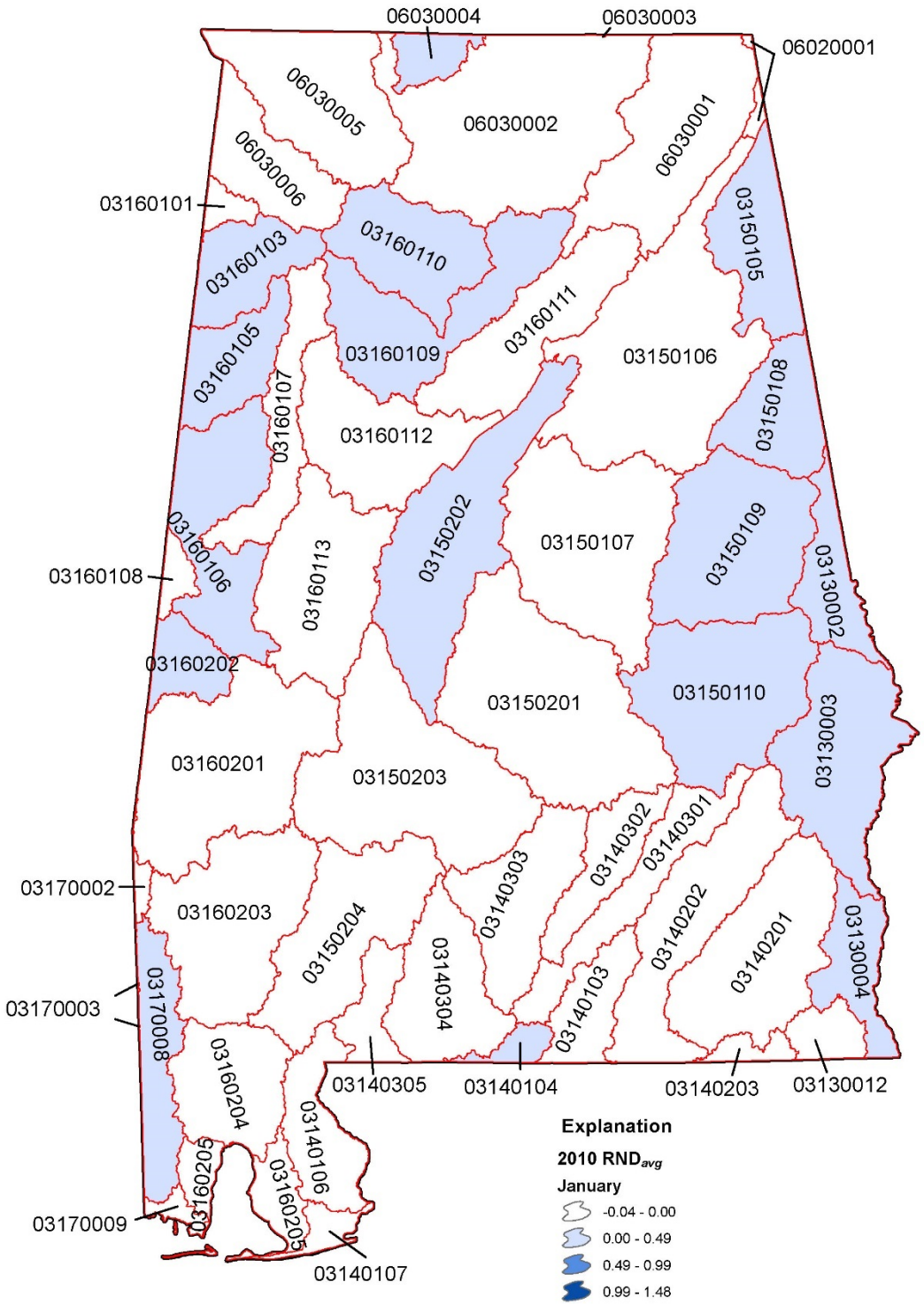


Figure J-34. Map of February 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

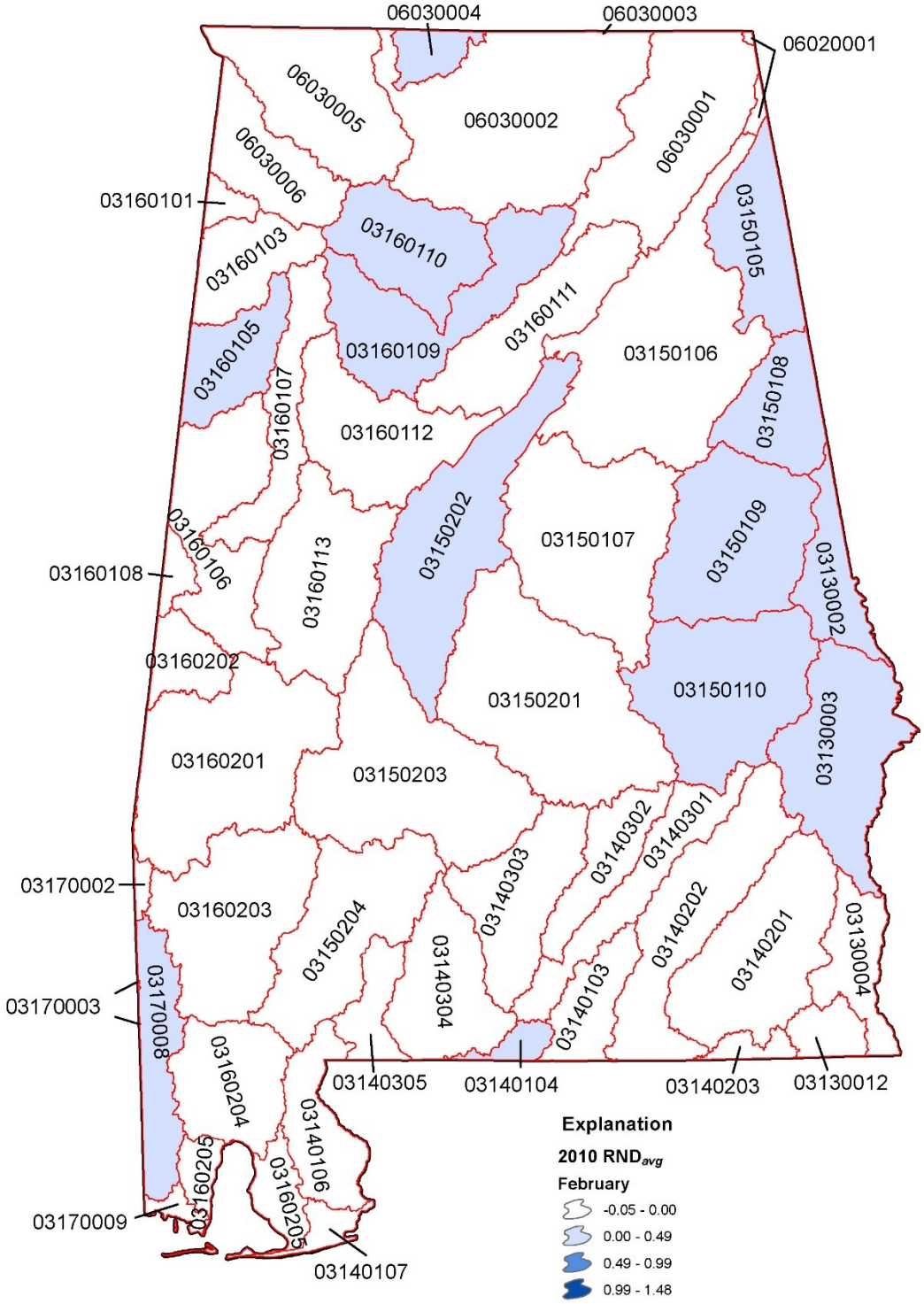


Figure J-35. Map of March 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

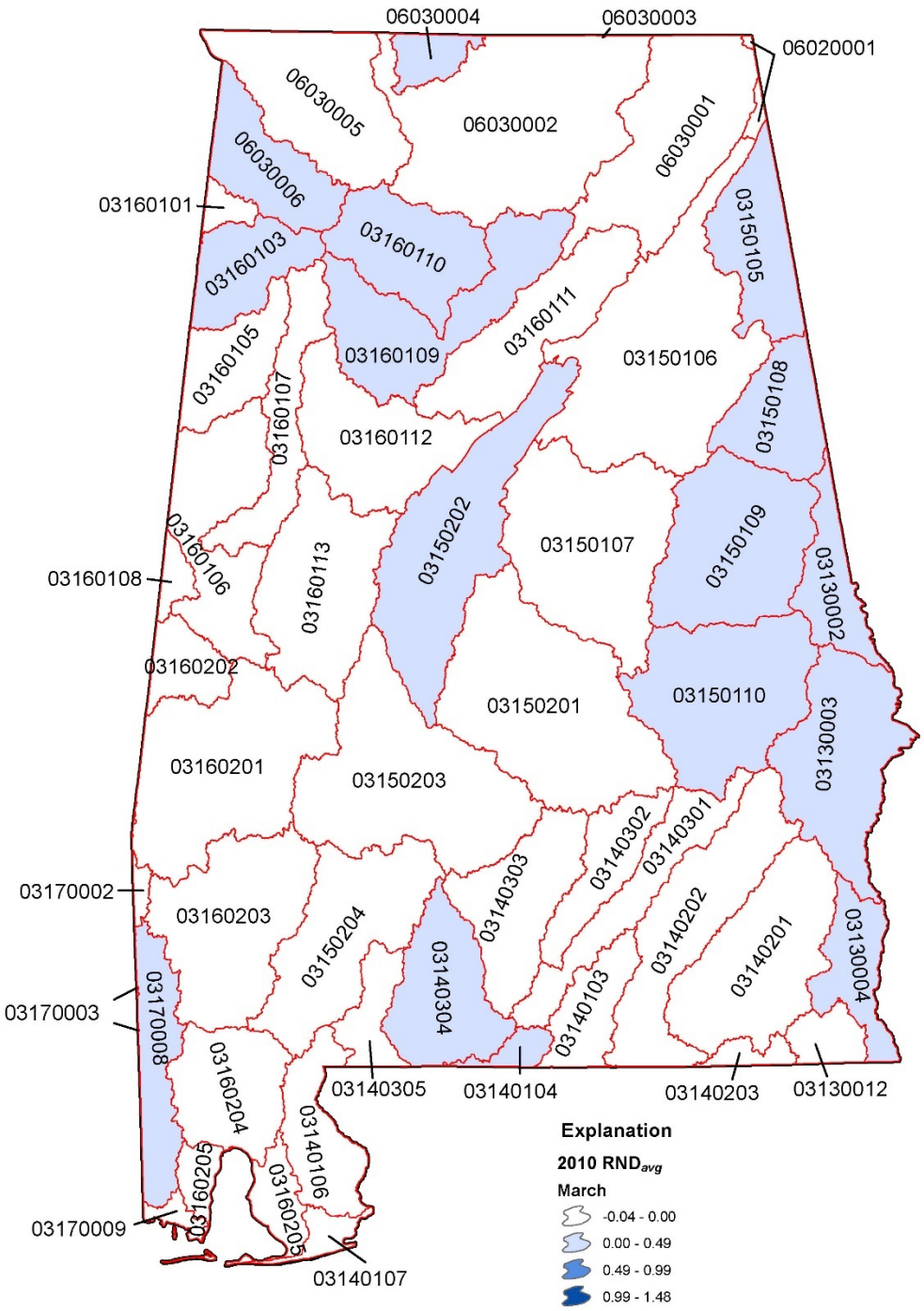


Figure J-36. Map of April 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

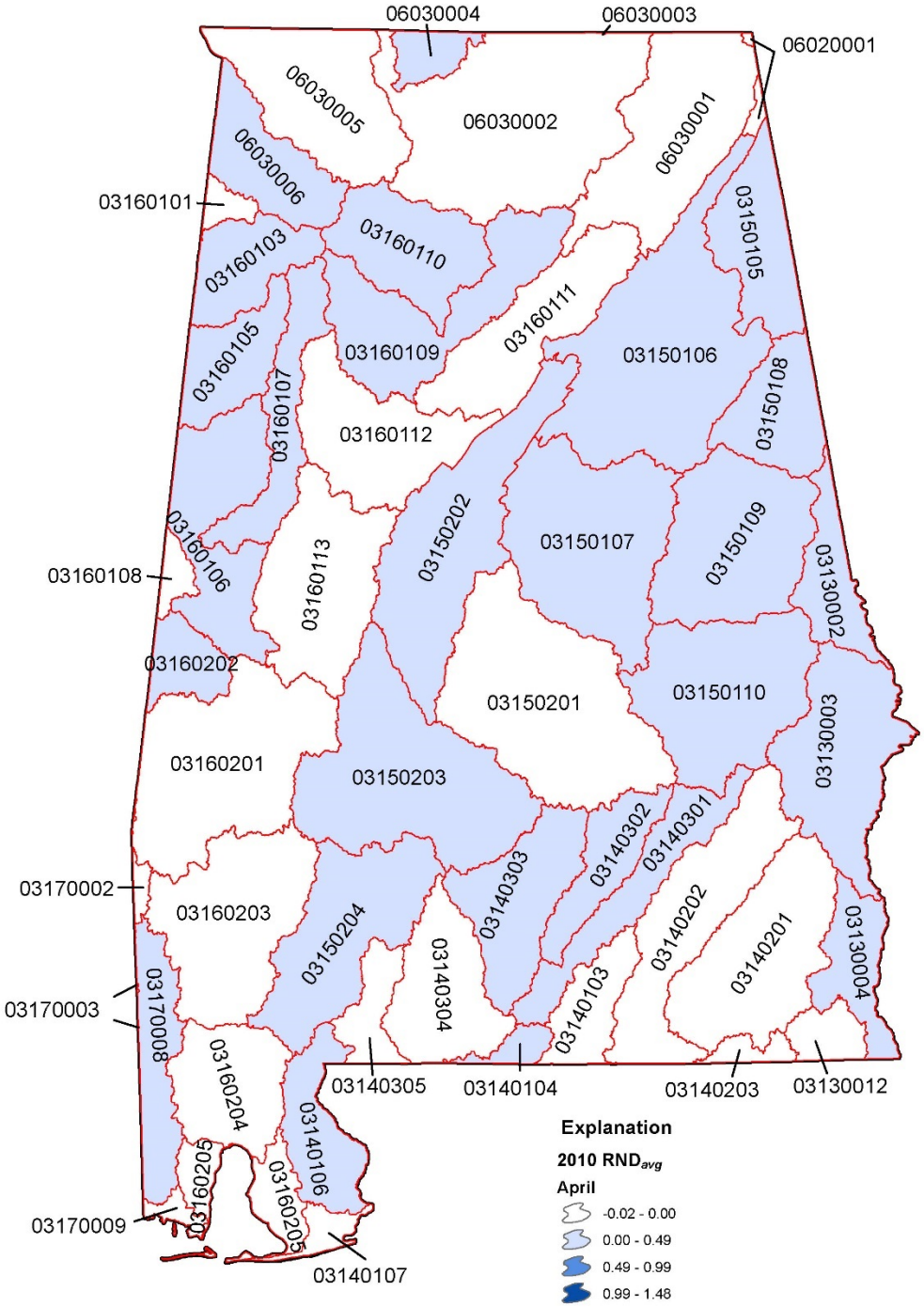


Figure J-37. Map of May 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

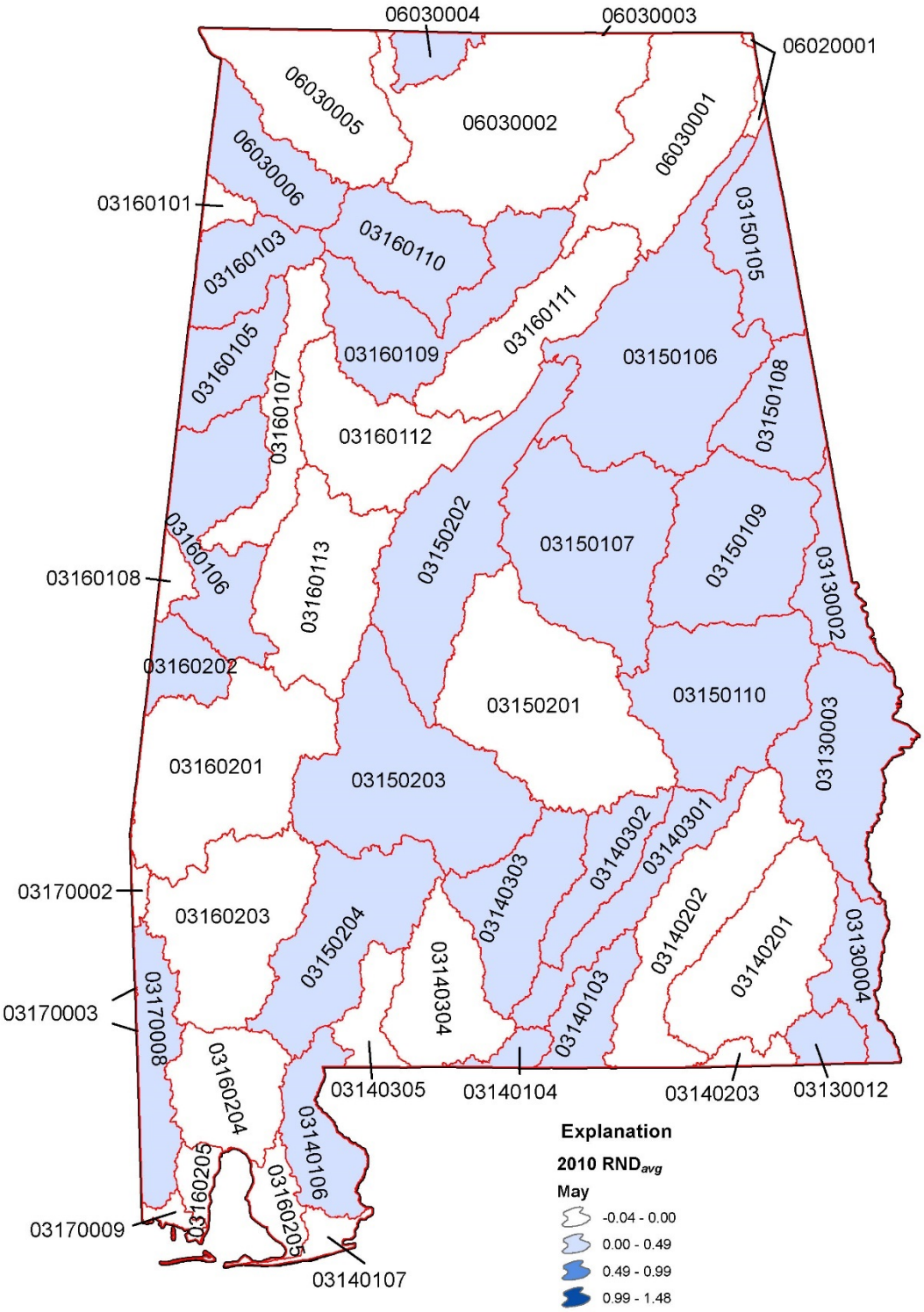


Figure J-38. Map of June 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

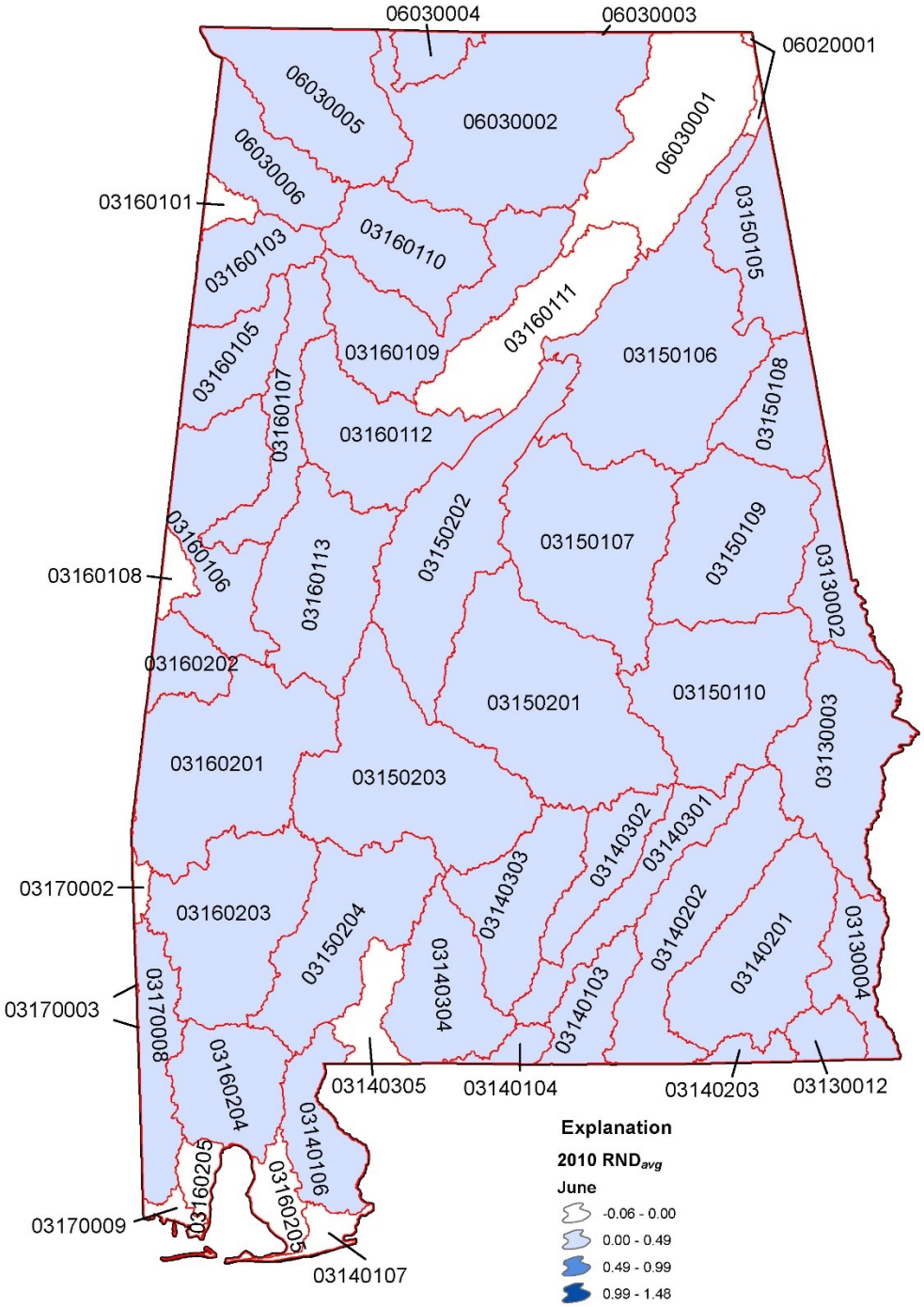


Figure J-39. Map of July 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

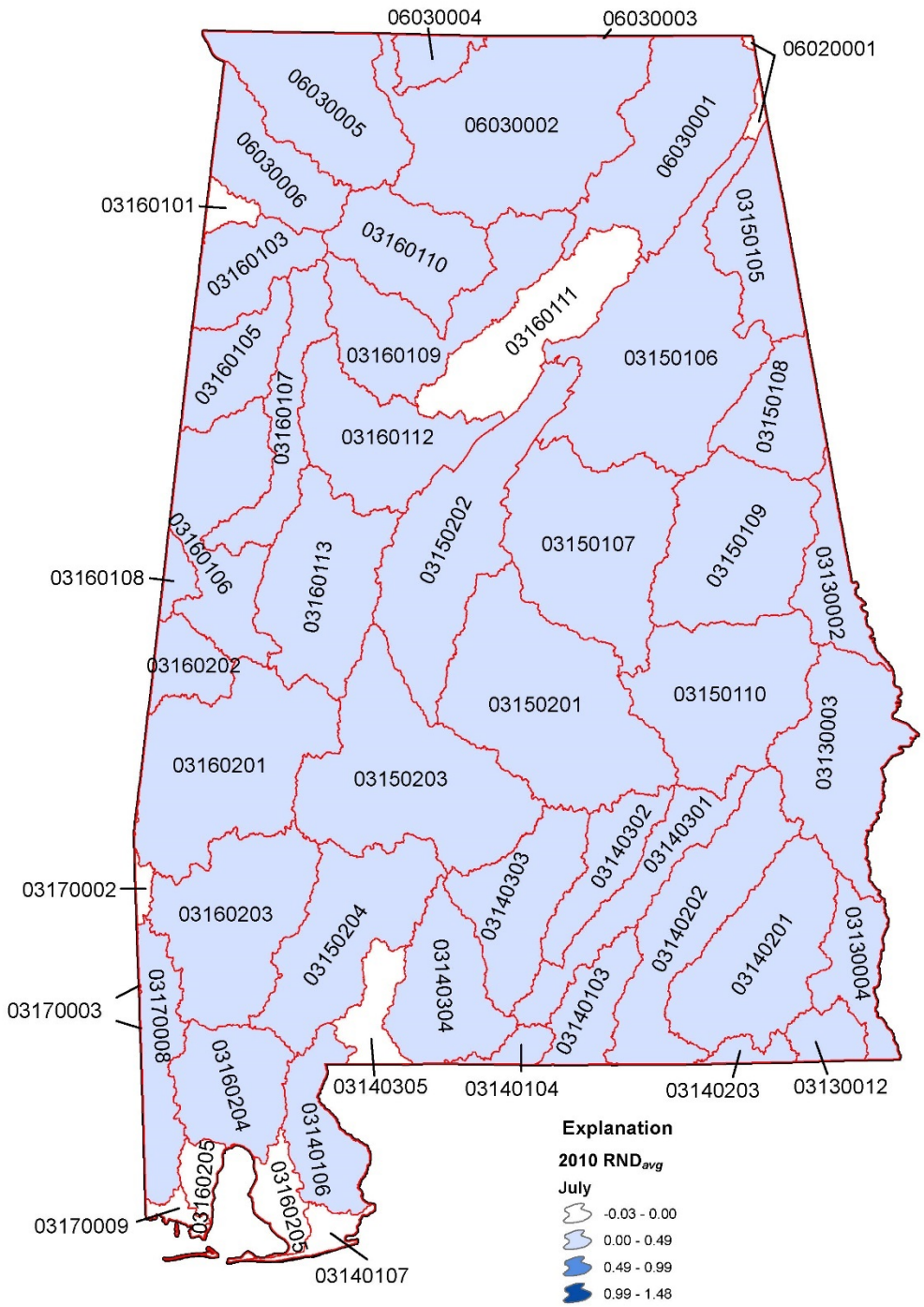


Figure J-40. Map of August 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

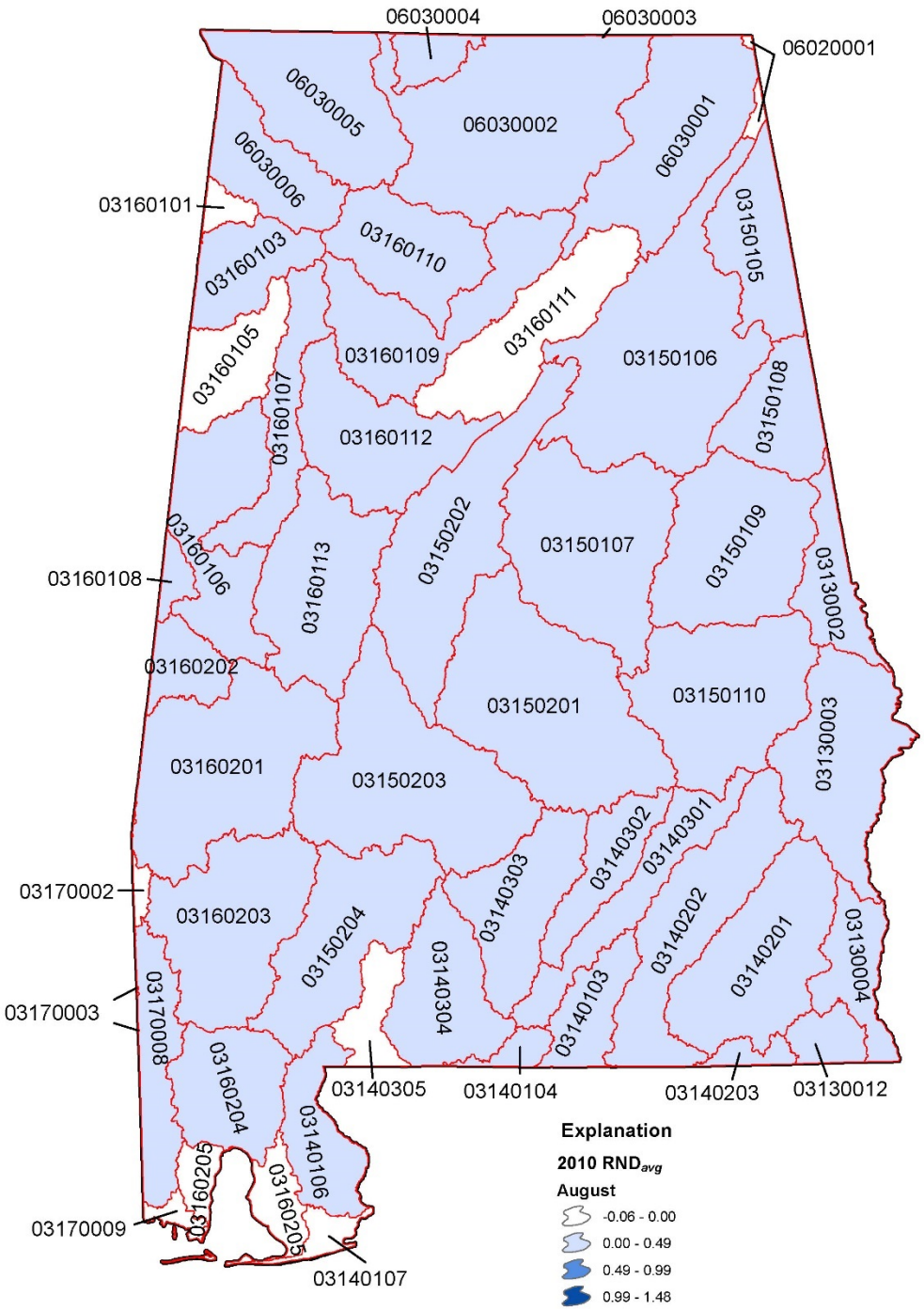


Figure J-41. Map of September 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

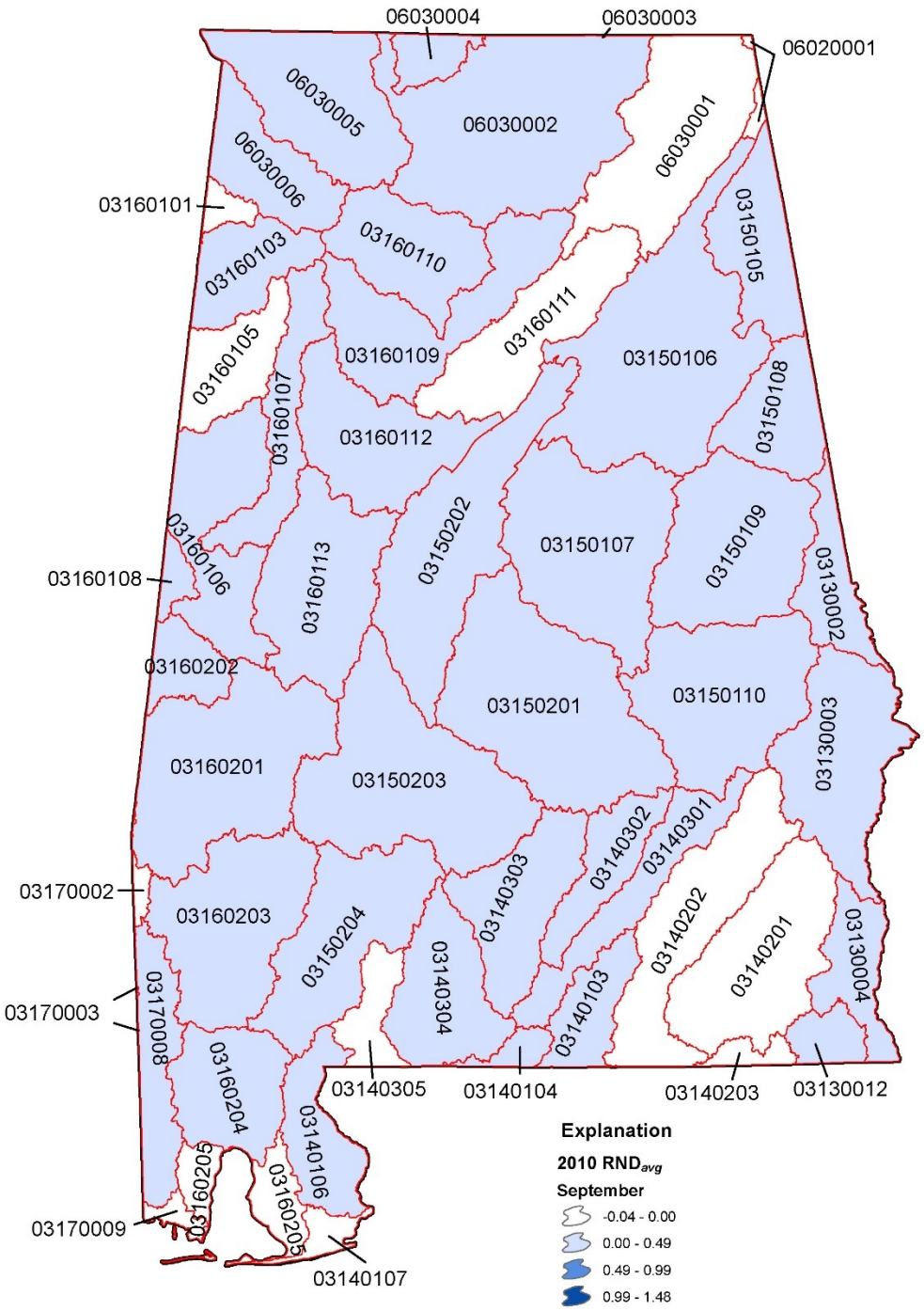


Figure J-42. Map of October 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

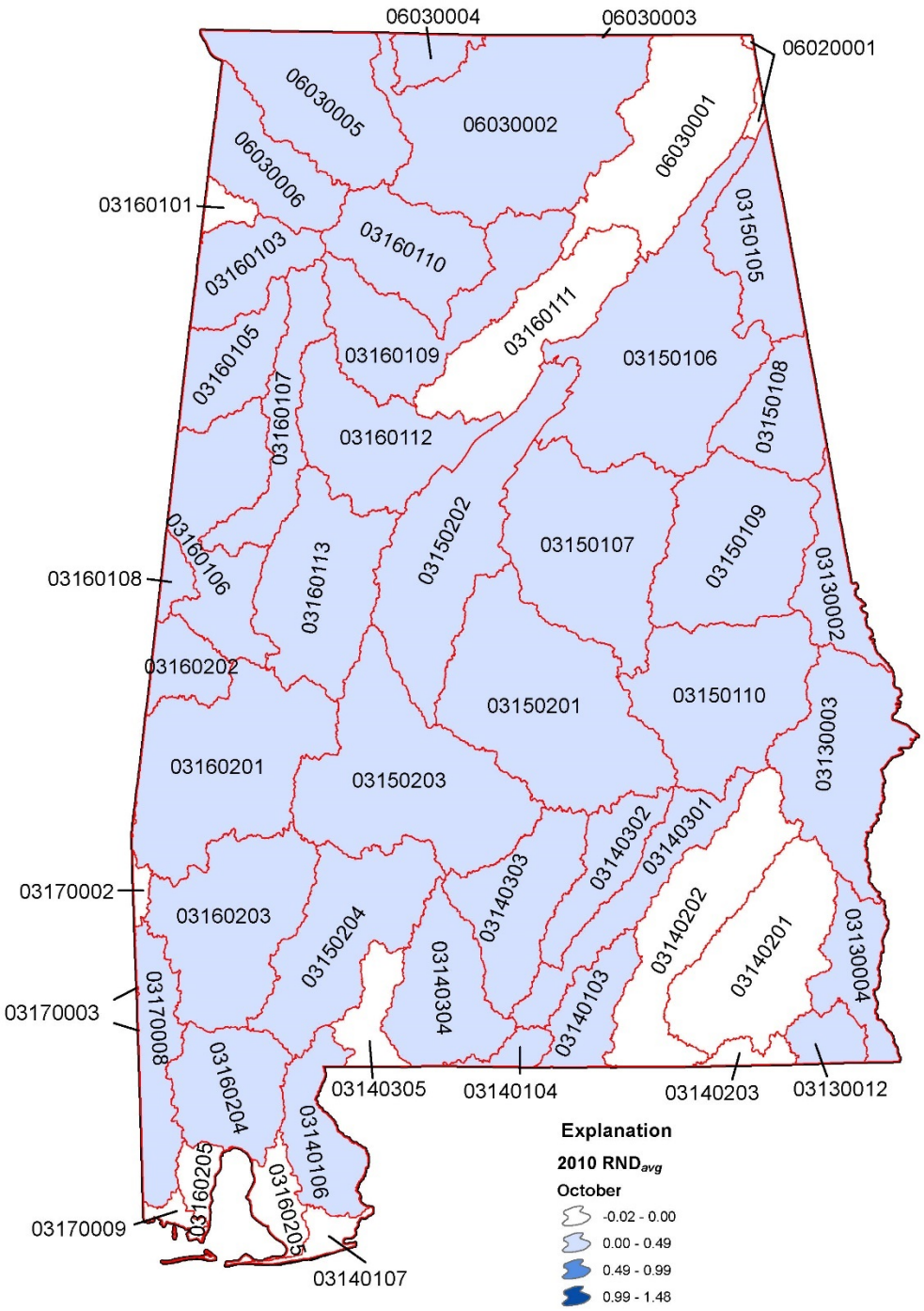


Figure J-43. Map of November 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

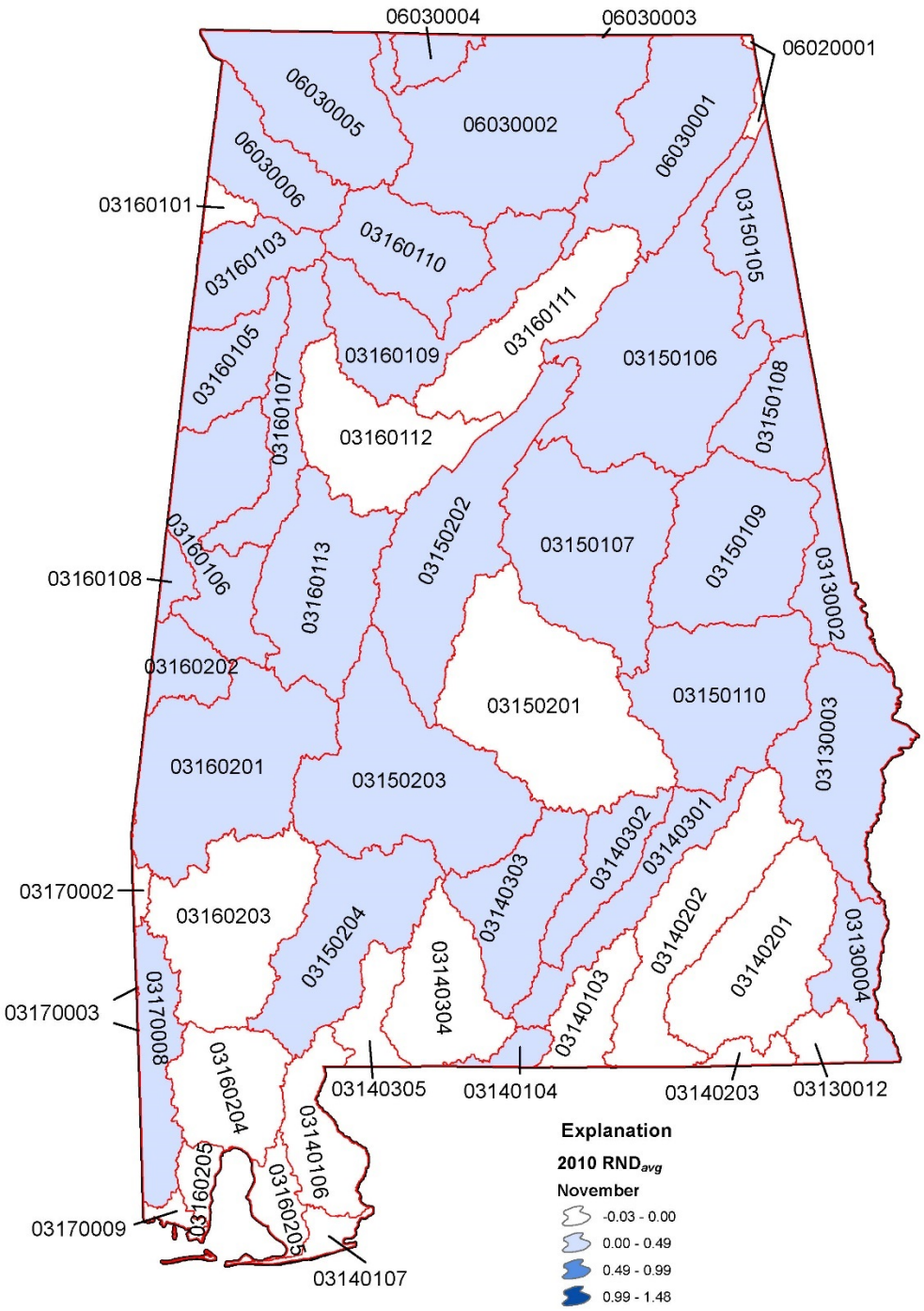


Figure J-44. Map of December 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

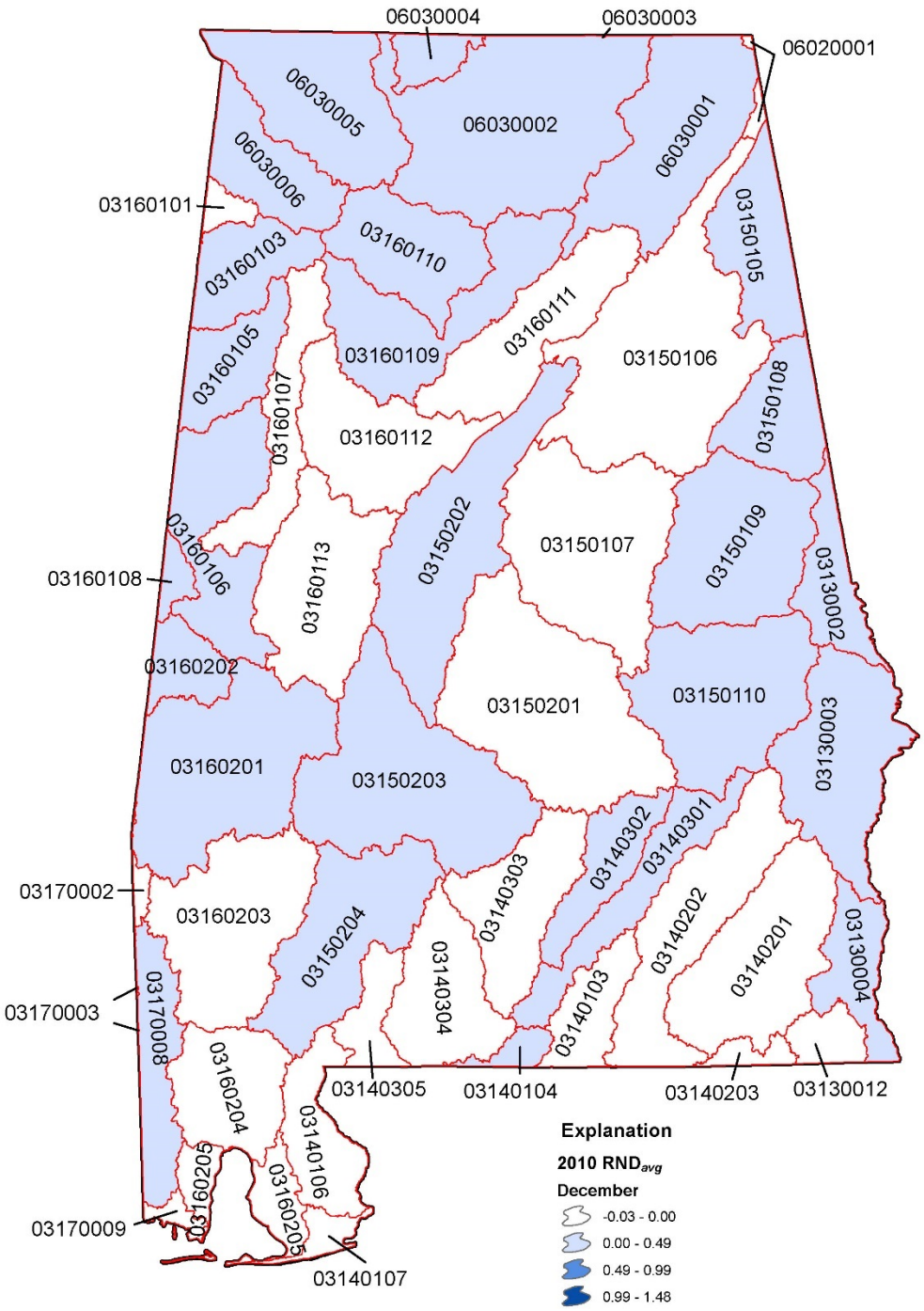


Figure J-45. Map of January – March seasonal 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

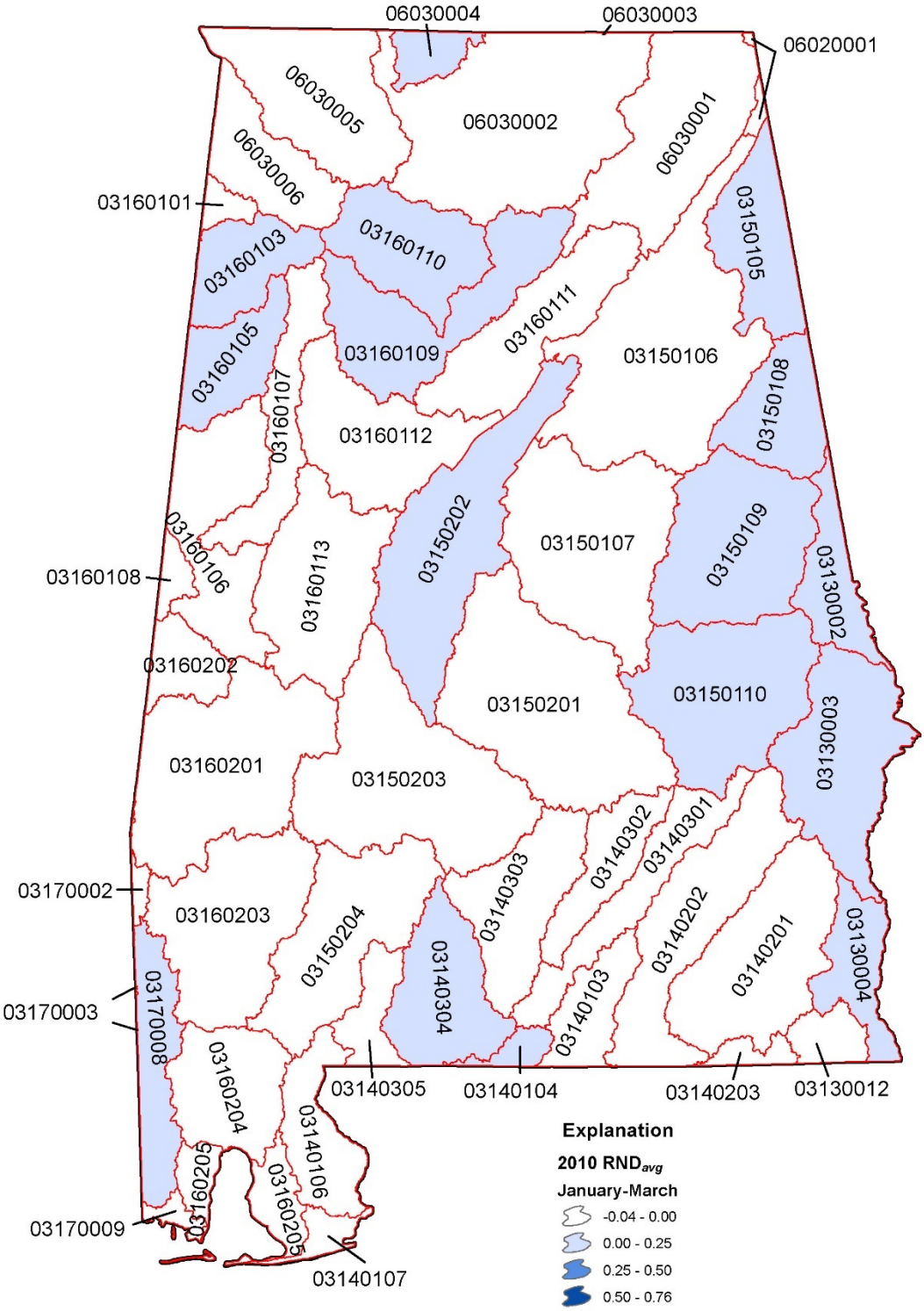


Figure J-46. Map of April – June seasonal 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

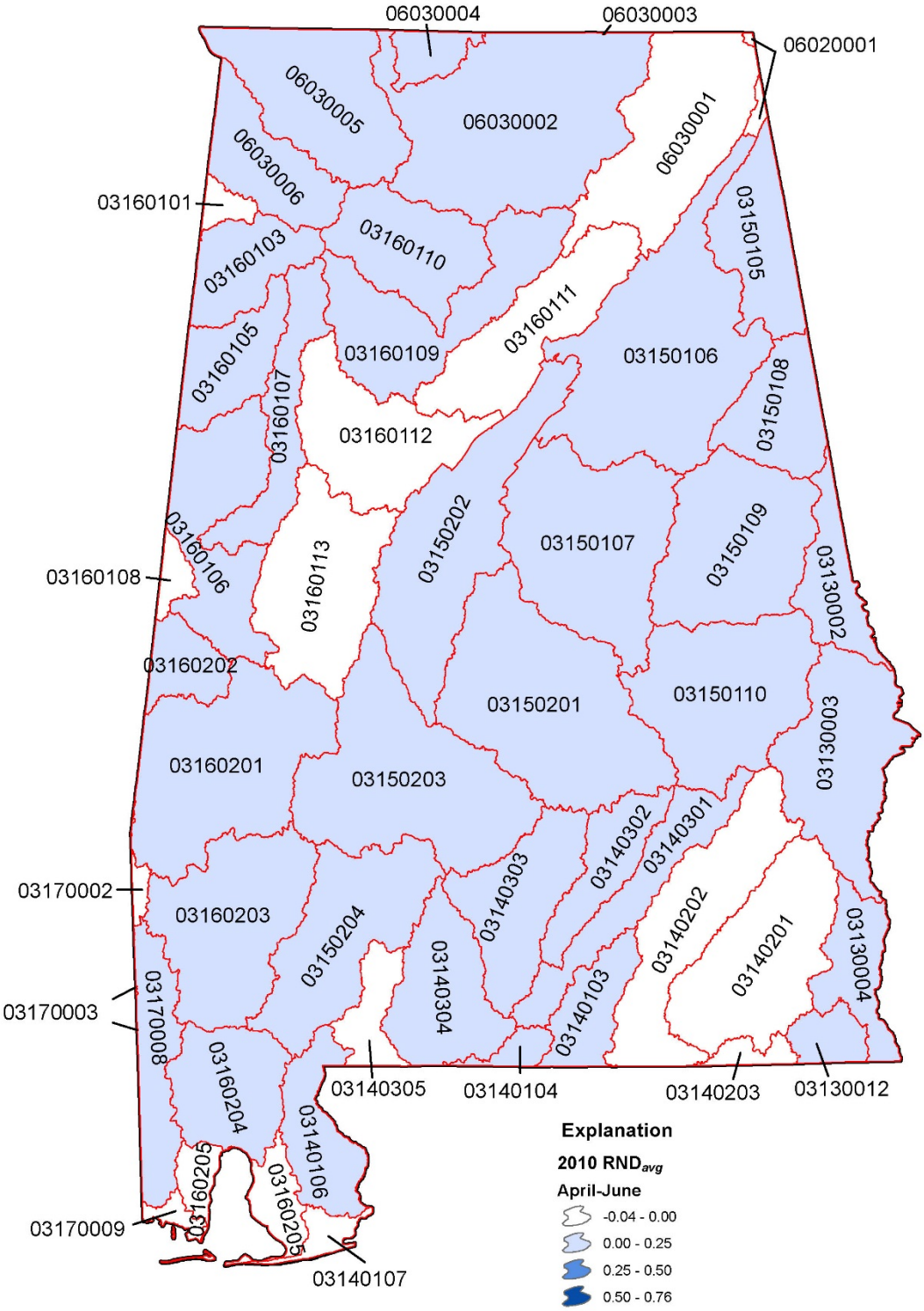


Figure J-47. Map of July – September seasonal 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

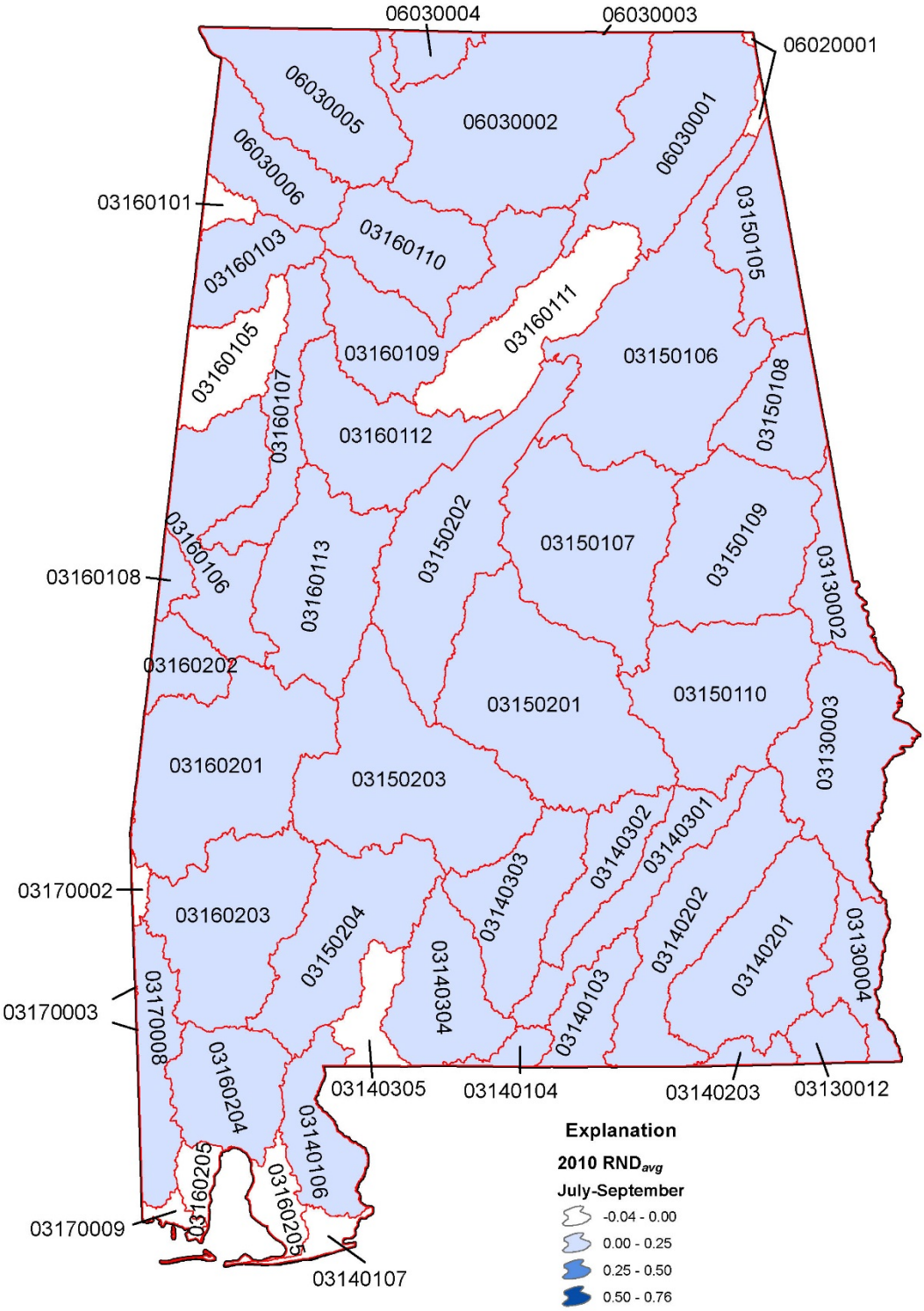


Figure J-48. Map of October – December seasonal 2010 average Relative Net Demand (RND) ratios (2010 RND_{avg}) by subbasin.

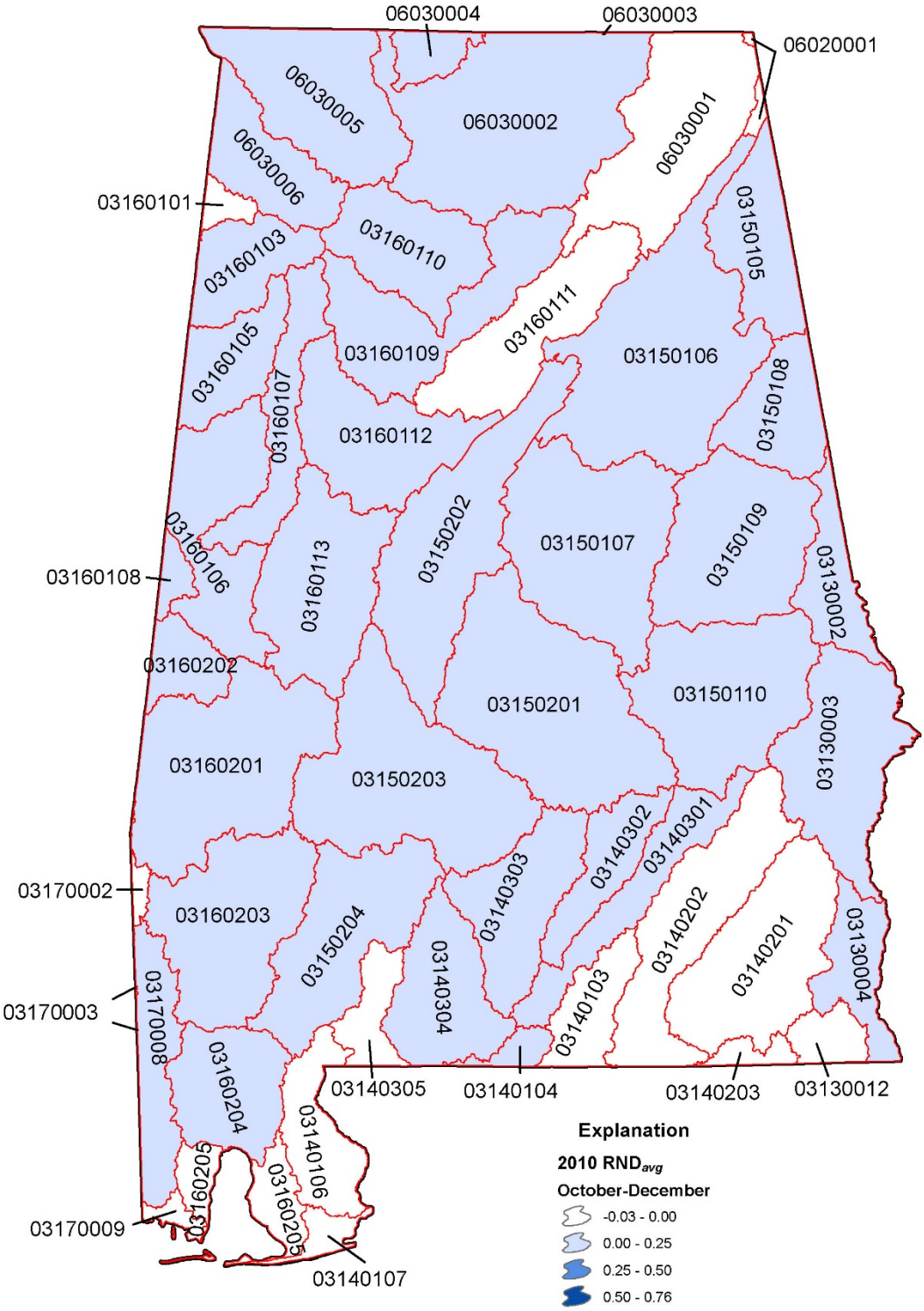


Figure J-49. Map of January 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

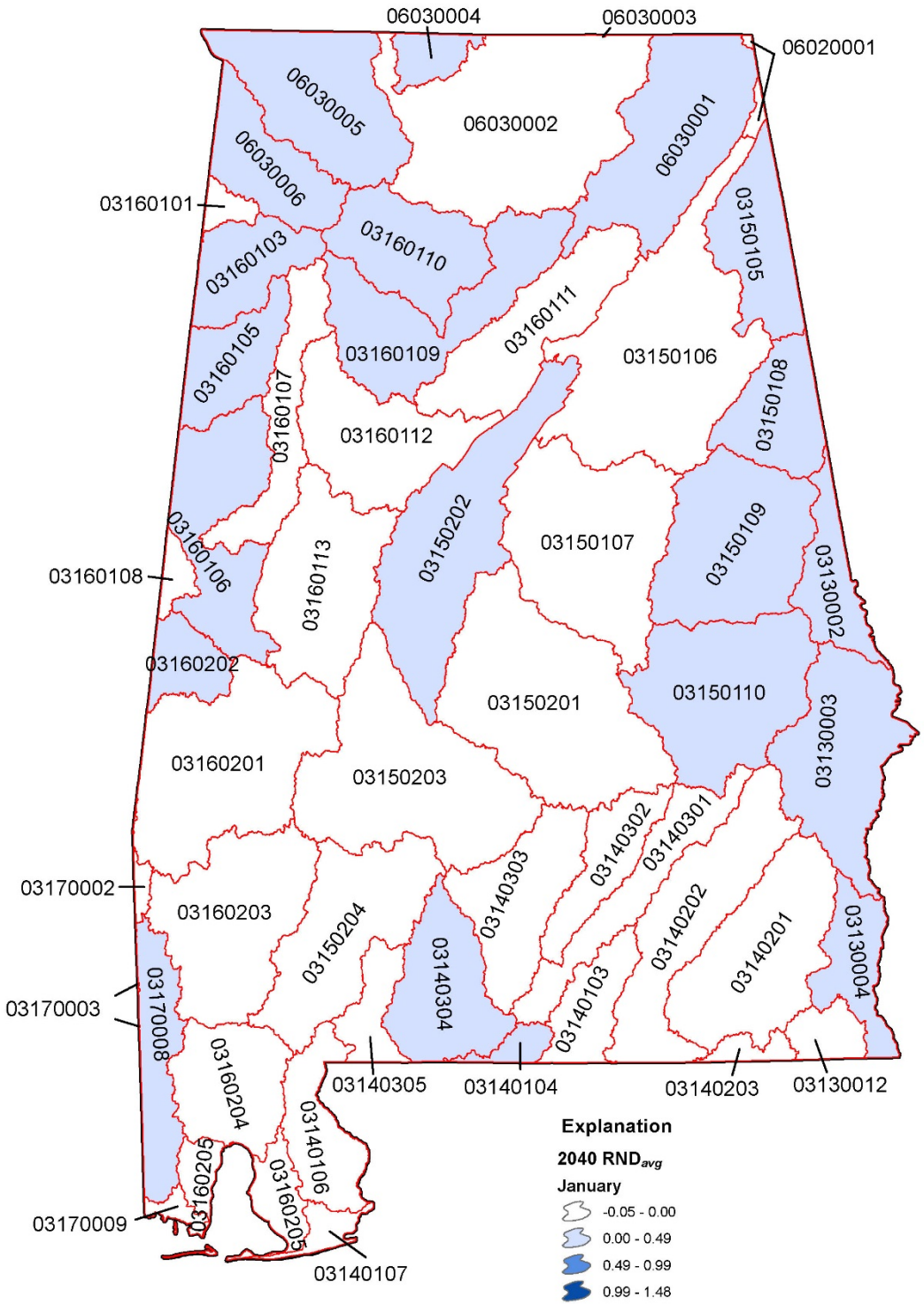


Figure J-50. Map of February 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

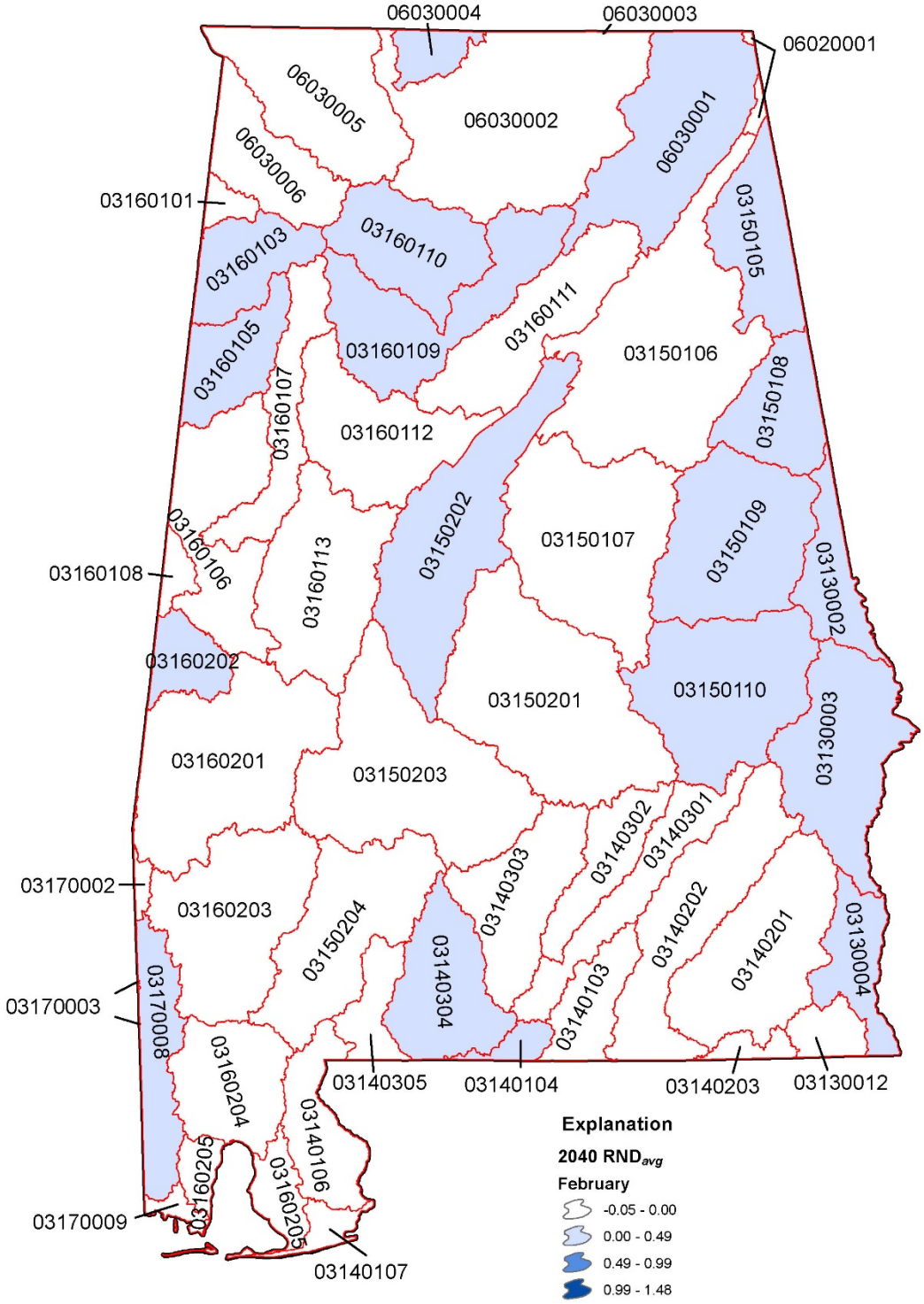


Figure J-51. Map of March 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

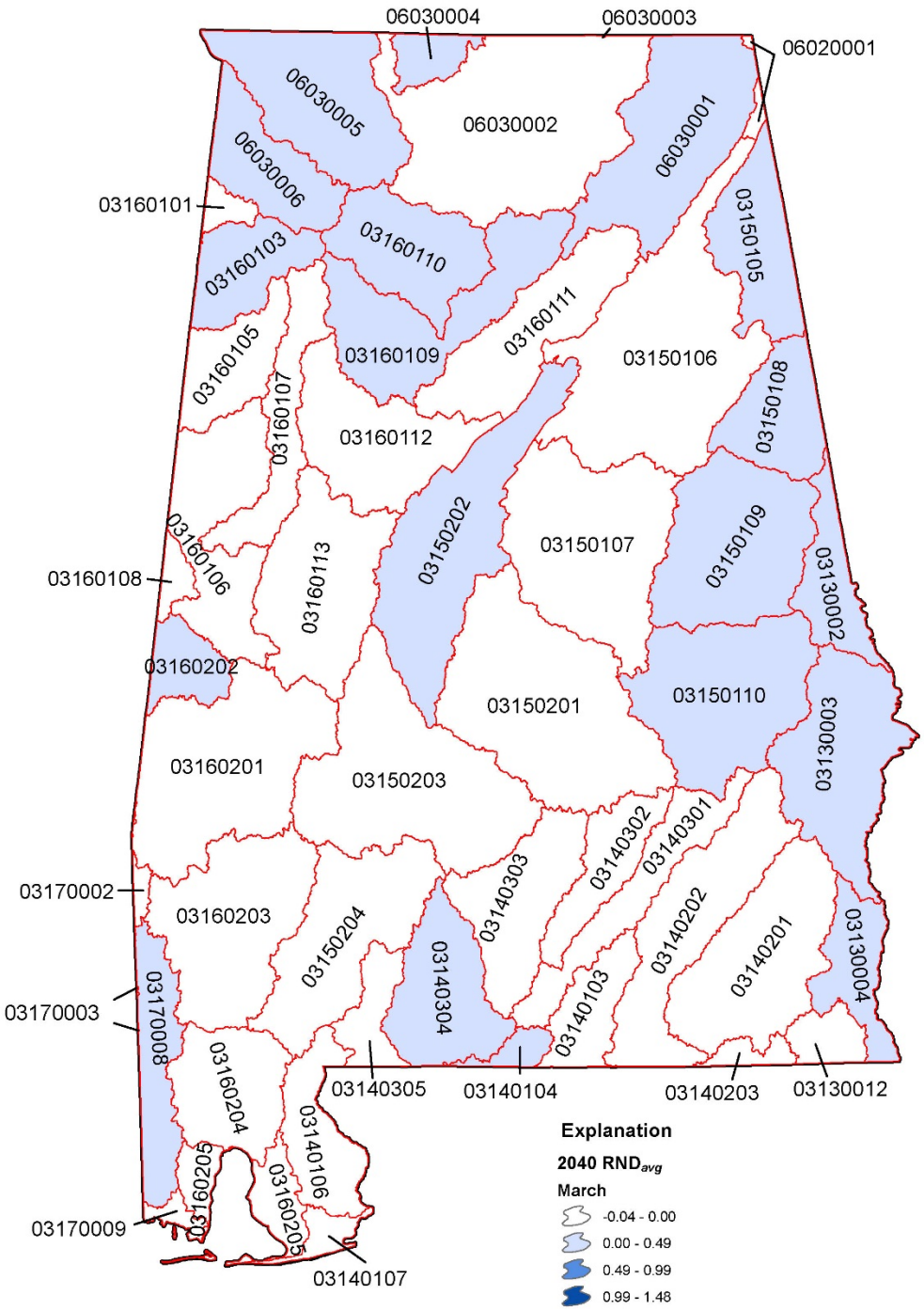


Figure J-52. Map of April 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

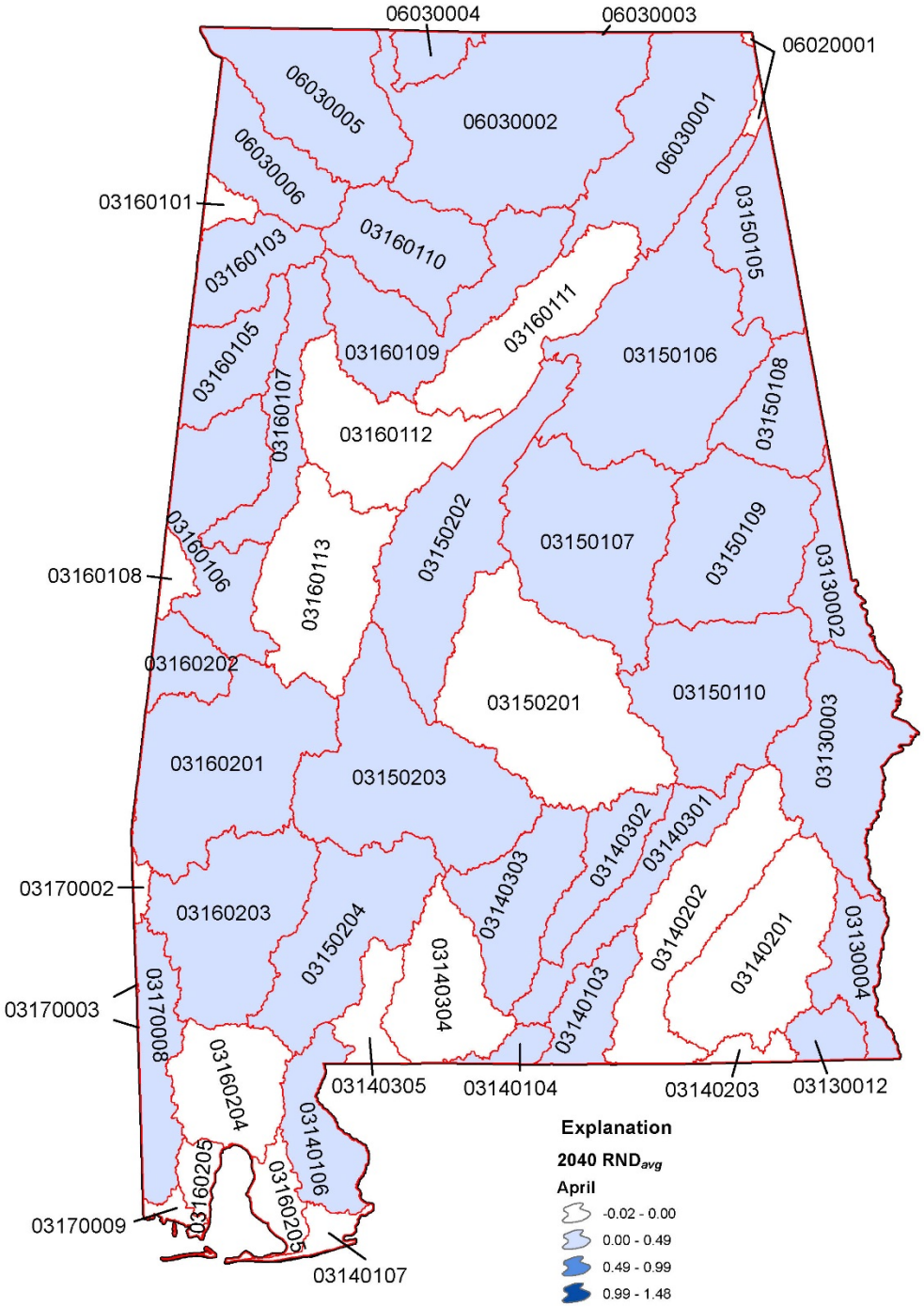


Figure J-53. Map of May 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

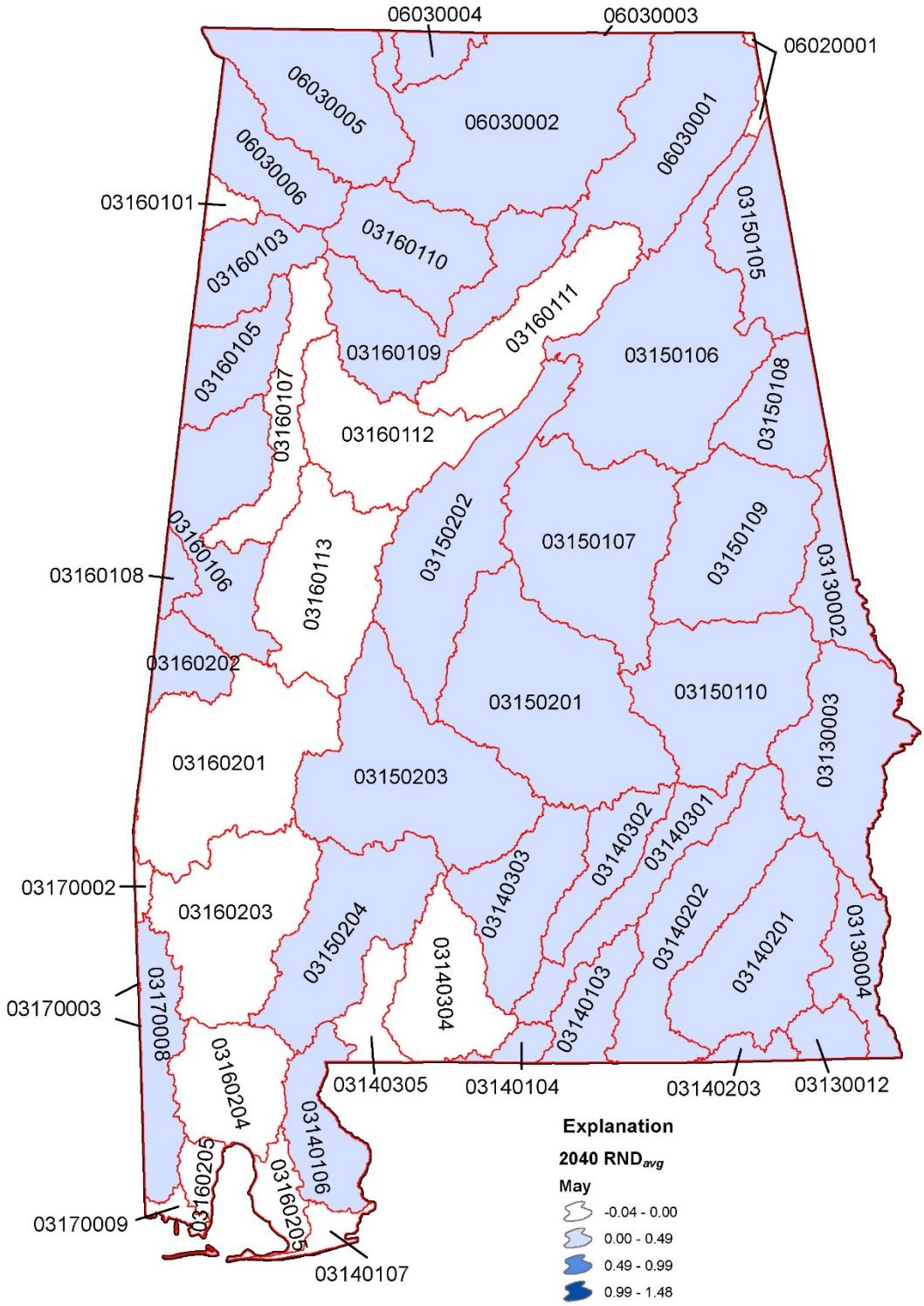


Figure J-54. Map of June 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

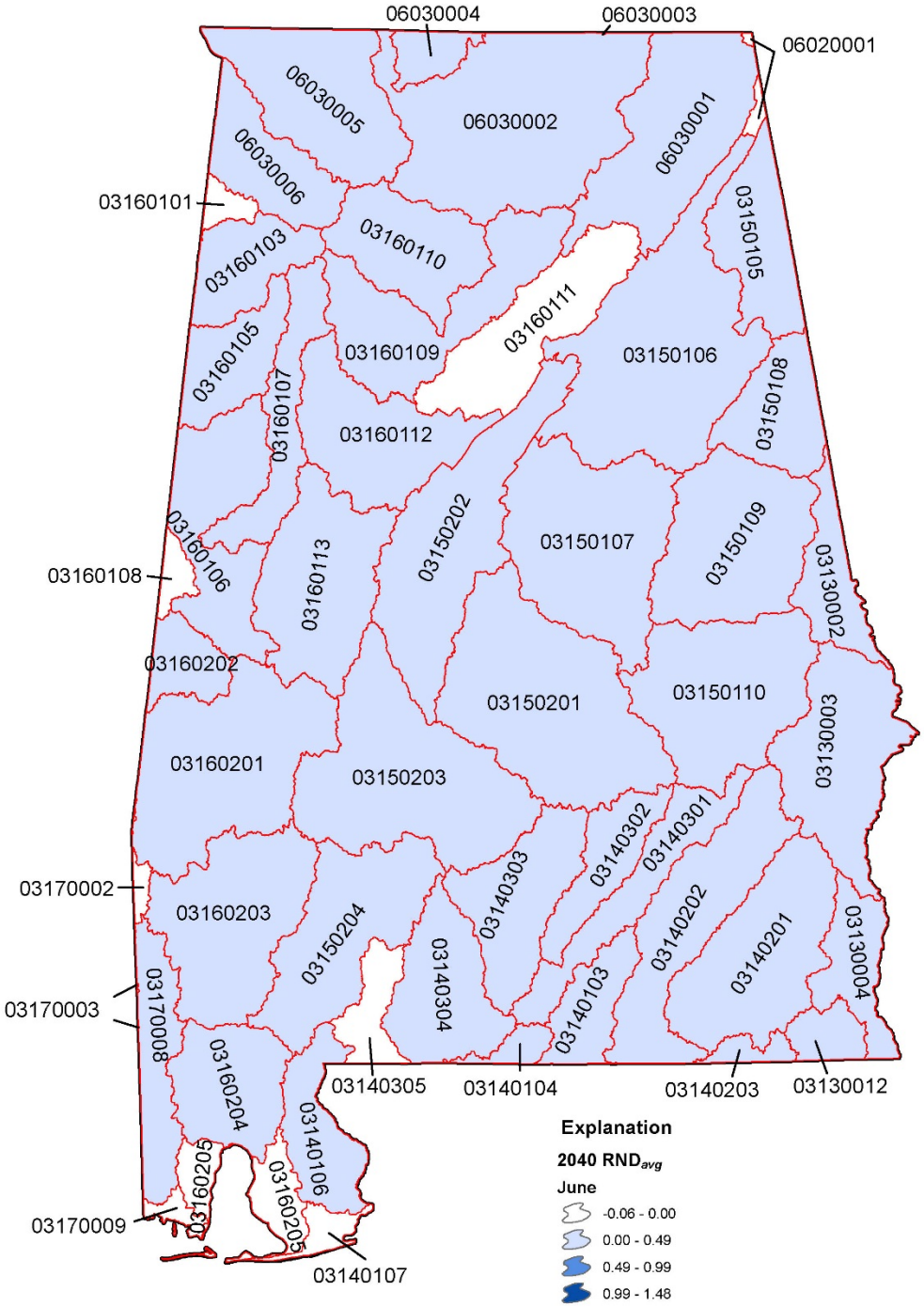


Figure J-55. Map of July 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

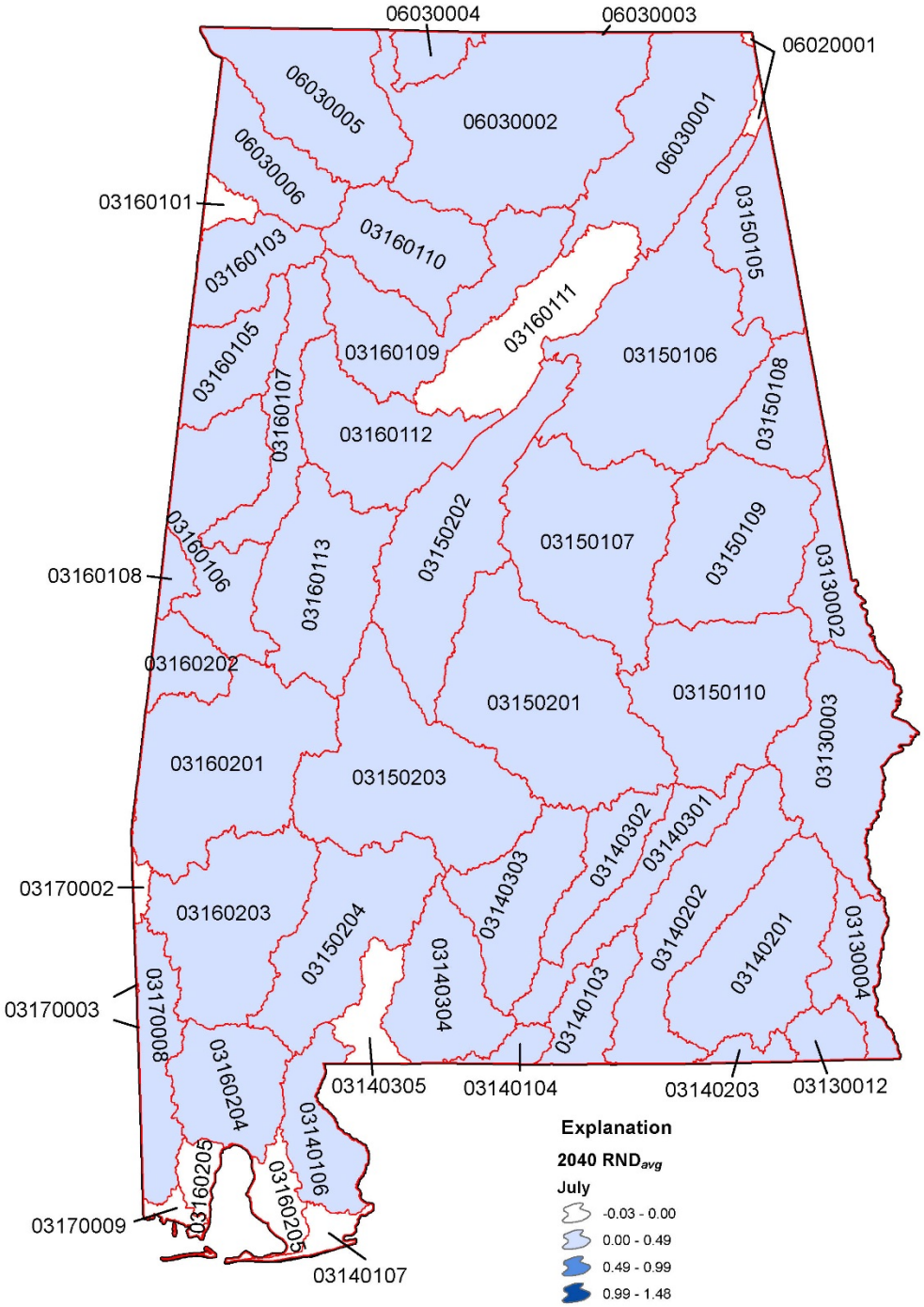


Figure J-56. Map of August 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

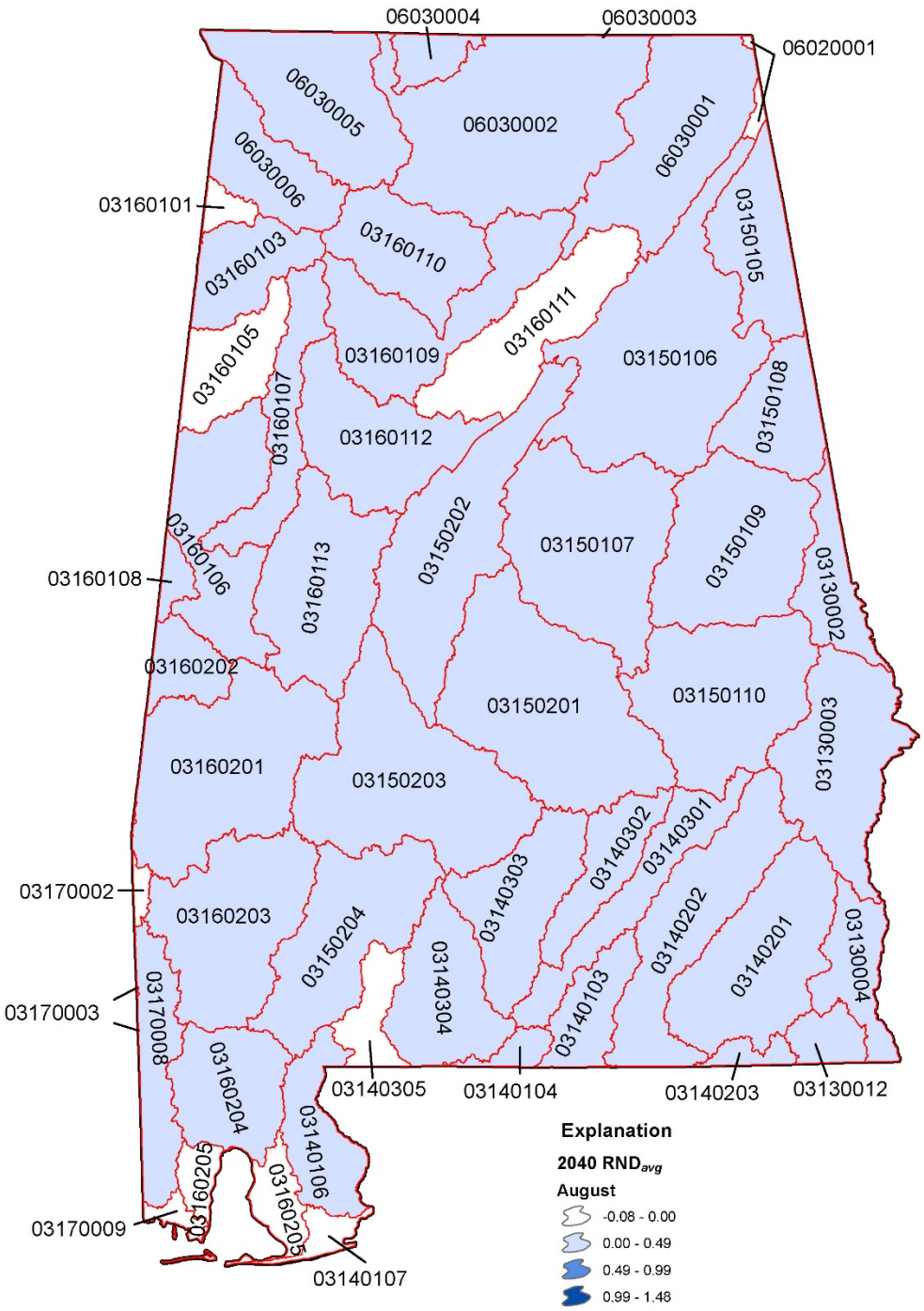


Figure J-57. Map of September 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

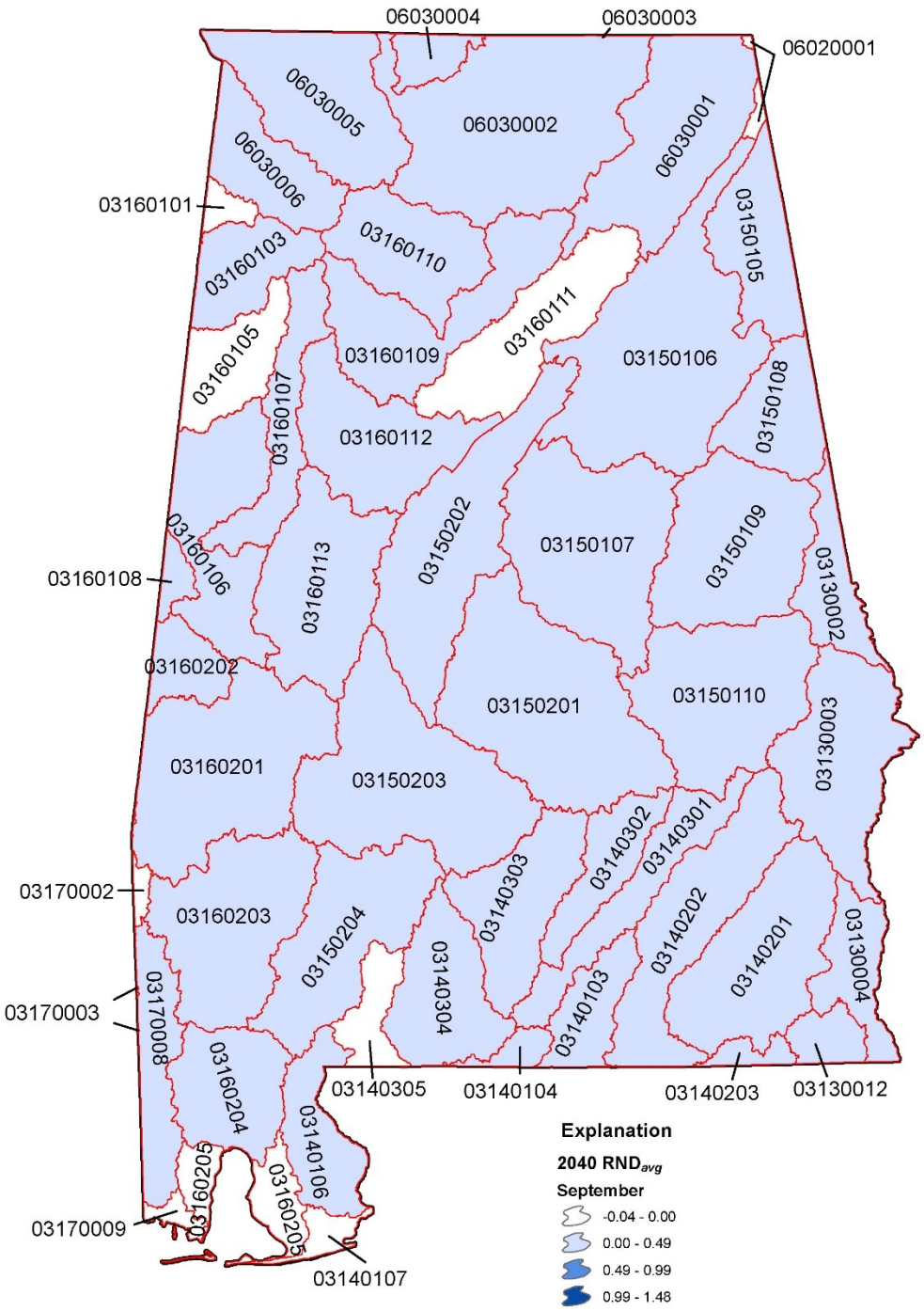


Figure J-58. Map of October 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

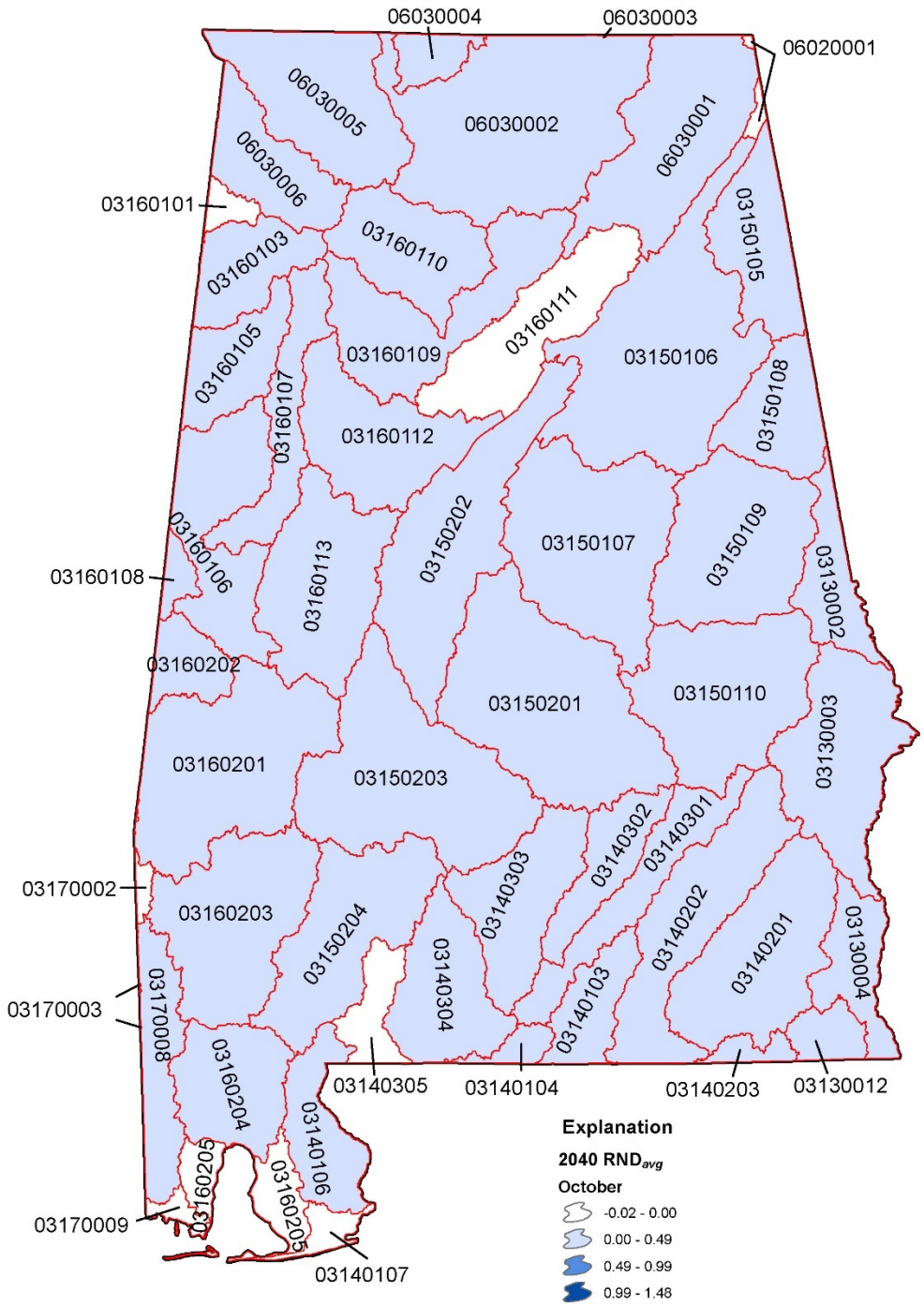


Figure J-59. Map of November 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

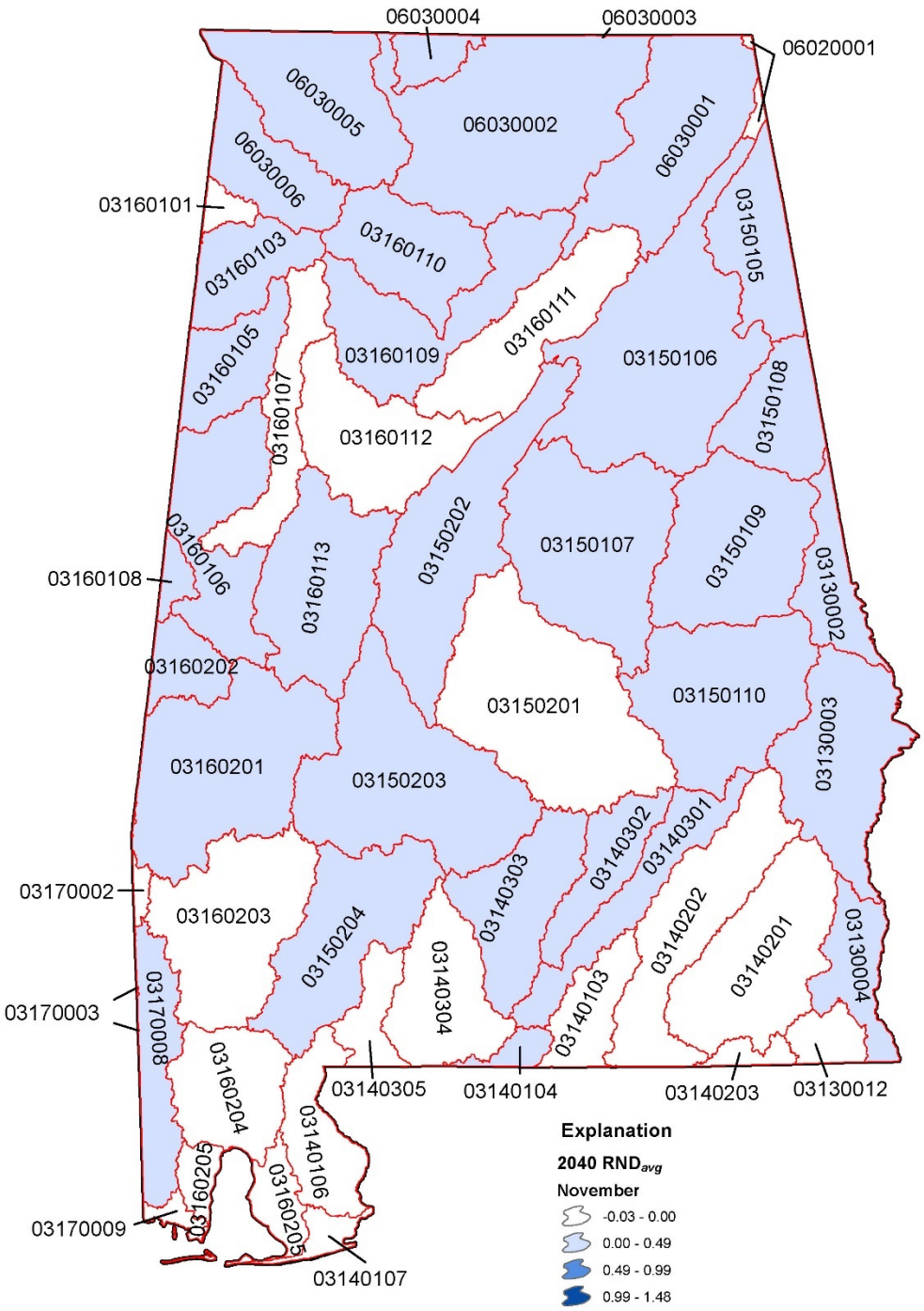


Figure J-60. Map of December 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

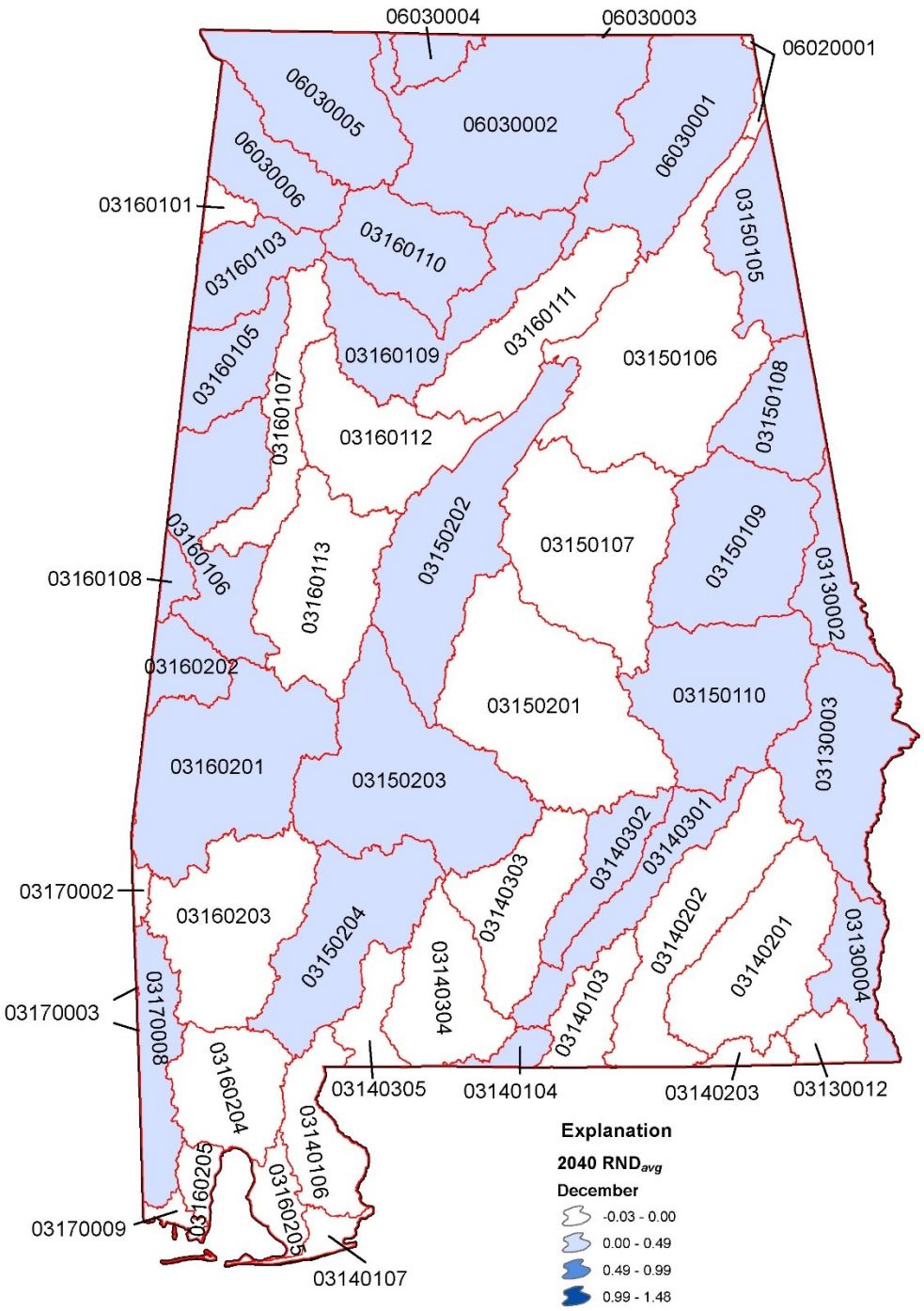


Figure J-61. Map of January – March seasonal 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

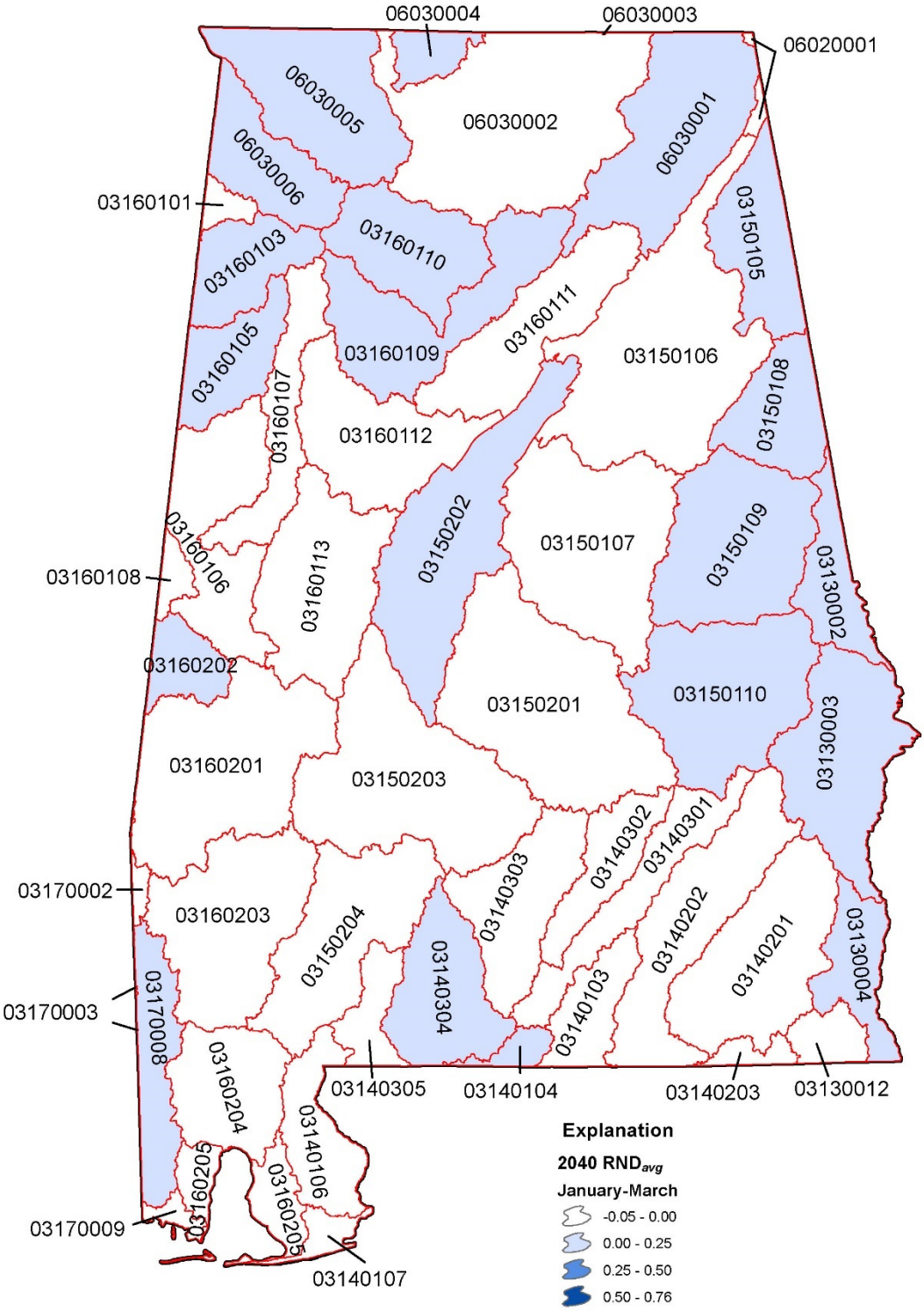


Figure J-62. Map of April – June seasonal 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

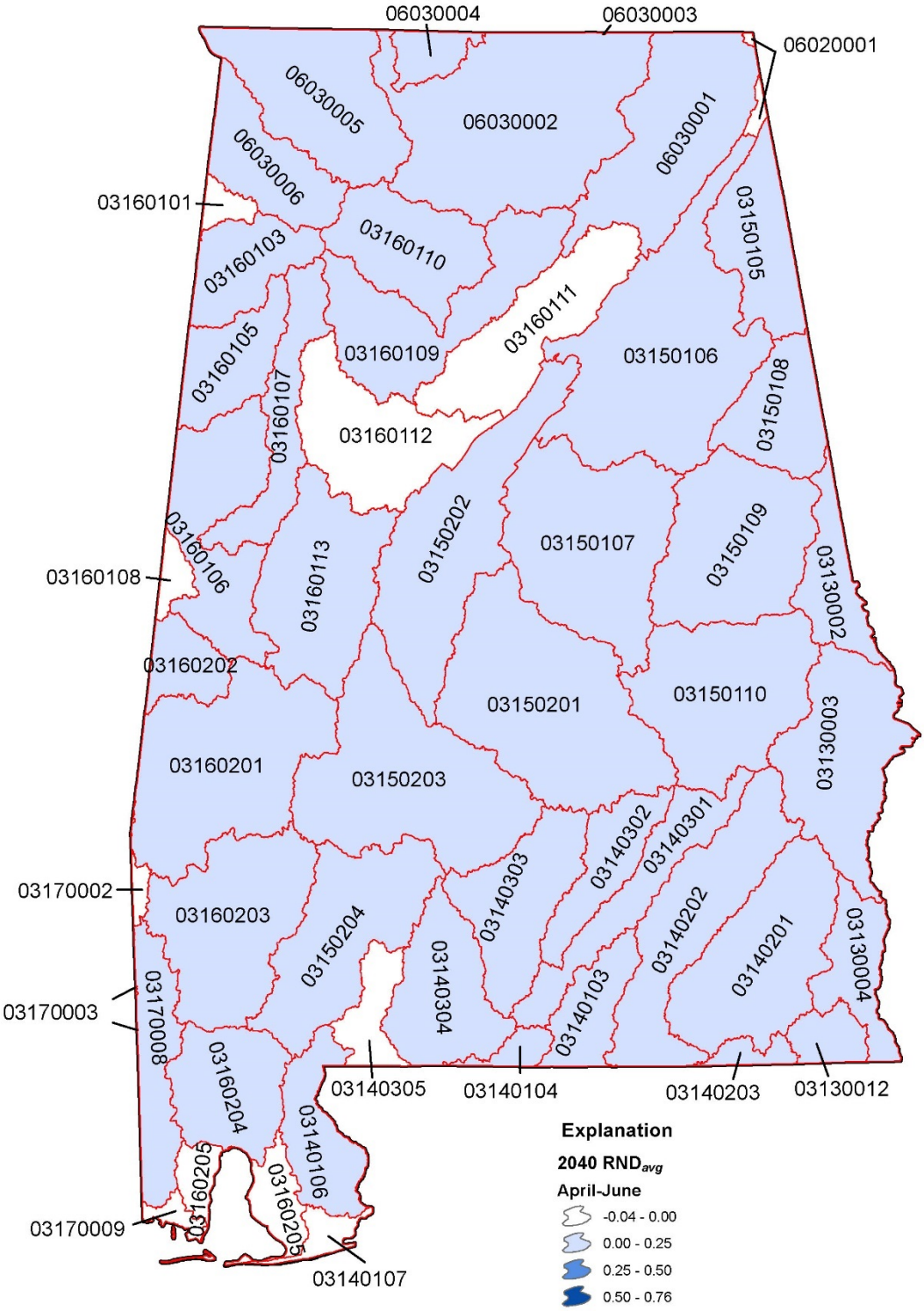


Figure J-63. Map of July – September seasonal 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.

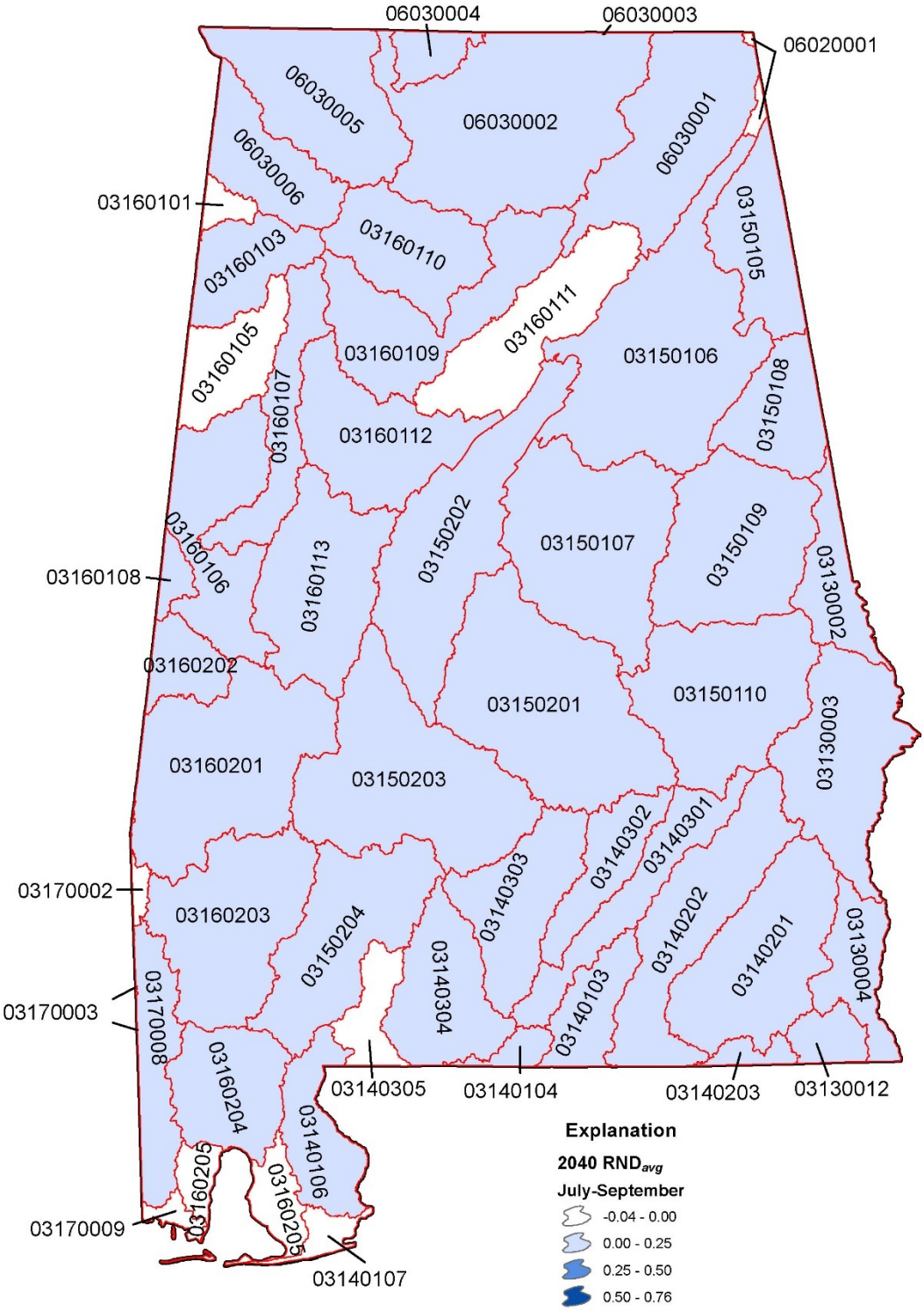
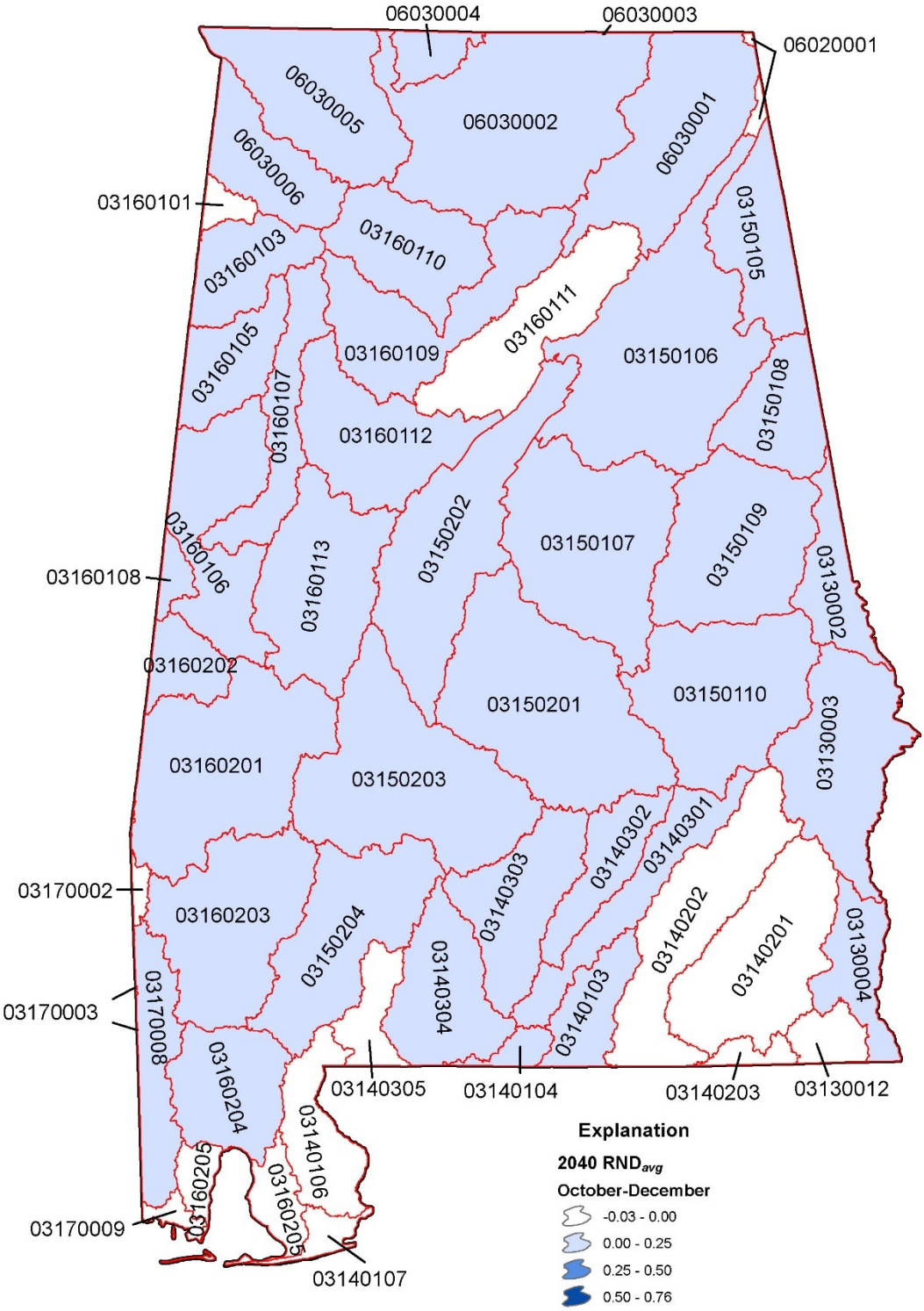


Figure J-64. Map of October – December seasonal 2040 average Relative Net Demand (RND) ratios (2040 RND_{avg}) by subbasin.



Appendix K

Subbasin Monthly Flow Summaries

The summaries for each of the following 45 subbasin outlets include four pages as follows:

First page – Observed and estimated monthly flows in a tabular format from January 1975 through December 2014.

Second page – Monthly and annual streamflow percentiles in a tabular format along with a graphical representation of non-exceedance values.

Third page – A graph of selected monthly streamflow characteristics for each subbasin outlet and each monthly average streamflow divided into 10 equal increments. Above the graph, the drainage area for the subbasin outlet is listed. Under the graph is a tabular summary of selected monthly characteristics for the subbasin.

Fourth page - A graph of the average monthly streamflow for the subbasin outlet as well as 10th percentile increments of the non-exceedance flows. Under the graph is the tabular summary of selected monthly characteristics for the subbasin.

The monthly streamflows and percentiles are in units of cubic feet per second (CFS).

(CFS – cubic feet per second; DA – drainage area, in square miles; CFSM – cubic feet per second per square mile; Q5 – 5th non-exceedance flow percentile)

Monthly Flows (in CFS) for

03130002 - Middle Chattahoochee - Lake Harding Subbasin

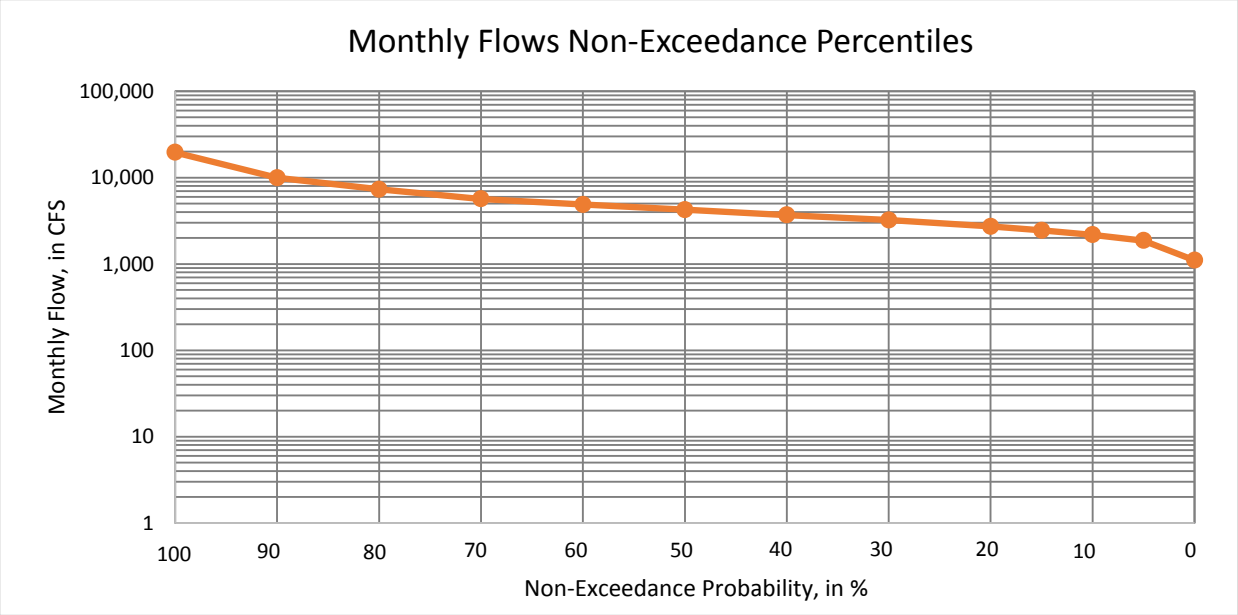
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	7,534	11,690	15,360	12,710	2,558	5,370	4,820	5,751	4,539	7,771	7,458	6,515	7,642
1976	9,349	9,108	13,280	9,426	8,521	7,817	6,169	3,944	3,336	2,363	3,296	6,658	6,932
1977	5,747	3,767	9,745	12,410	4,441	3,450	4,124	4,126	2,466	2,865	8,875	5,310	5,613
1978	10,380	8,729	5,623	2,737	6,809	1,807	2,618	4,084	4,652	3,945	3,137	2,812	4,764
1979	4,584	5,588	7,625	16,480	7,068	5,461	3,514	4,679	3,904	4,860	7,924	4,251	6,311
1980	7,103	8,084	15,110	12,360	10,520	5,176	4,372	5,417	4,526	3,646	2,037	2,721	6,753
1981	2,548	6,419	3,073	3,629	2,516	2,990	3,741	4,723	3,422	2,685	2,603	1,867	3,328
1982	5,663	10,920	3,861	6,116	3,260	3,417	3,287	4,421	3,869	2,543	4,193	10,080	5,096
1983	7,185	7,991	9,935	12,870	5,187	4,842	4,236	4,927	2,686	3,557	4,308	13,050	6,727
1984	8,899	7,571	9,122	7,871	8,998	4,757	4,522	8,890	5,201	2,534	4,116	4,403	6,408
1985	3,289	6,778	3,391	3,441	1,647	3,766	3,411	4,718	5,154	5,319	2,423	3,860	3,912
1986	2,170	3,332	2,500	2,485	2,896	2,735	3,088	1,585	1,606	1,619	3,319	4,401	2,640
1987	6,186	5,273	7,003	4,031	2,127	4,412	5,024	4,720	4,339	2,823	2,824	2,406	4,260
1988	3,852	4,869	1,921	1,961	2,400	3,134	1,672	1,612	2,392	3,088	3,611	3,110	2,785
1989	2,588	2,766	3,193	4,766	2,861	6,729	6,023	5,087	4,900	8,536	6,257	9,175	5,256
1990	11,120	18,980	19,540	7,254	5,128	4,178	4,422	4,398	3,633	3,985	4,358	3,607	7,486
1991	3,805	4,760	5,007	4,153	10,910	6,056	5,638	4,990	6,352	7,022	4,299	5,205	5,696
1992	5,016	6,539	5,675	4,914	3,927	3,273	5,081	4,241	4,781	5,044	10,950	14,880	6,193
1993	13,730	10,520	9,950	7,850	6,823	5,139	4,683	4,356	3,382	3,085	2,763	2,916	6,248
1994	4,792	5,735	5,866	5,066	3,576	3,868	10,560	7,425	7,782	4,768	4,925	8,456	6,078
1995	5,418	12,050	10,730	3,276	4,900	2,373	3,659	4,477	4,269	4,705	8,117	6,168	5,809
1996	9,879	16,090	14,880	6,402	6,135	4,277	4,574	4,186	3,569	3,010	3,856	4,512	6,729
1997	6,123	8,926	11,650	4,904	5,237	6,627	5,186	3,826	5,506	3,821	5,778	7,030	6,201
1998	9,981	15,830	16,710	10,580	7,389	4,990	4,647	4,073	3,507	1,584	3,433	3,319	7,116
1999	3,687	4,545	3,002	2,554	1,423	4,151	2,513	3,755	2,910	1,709	1,816	2,173	2,839
2000	2,387	3,745	3,136	4,126	2,913	3,134	2,375	2,989	2,127	2,109	2,803	3,248	2,916
2001	4,240	3,288	10,260	5,156	2,901	5,489	3,413	3,491	1,935	1,943	2,640	2,021	3,904
2002	3,769	3,651	2,838	3,589	3,367	2,138	2,231	2,221	2,066	2,232	5,231	7,427	3,396
2003	4,024	6,363	10,120	6,165	17,380	13,630	10,540	5,699	3,771	3,466	6,228	7,079	7,889
2004	4,978	7,389	3,505	3,434	2,080	2,530	3,925	3,761	8,965	3,947	7,863	9,601	5,141
2005	5,610	7,118	10,710	9,952	4,553	6,173	14,780	7,677	3,824	1,967	4,265	6,127	6,904
2006	7,905	6,541	5,724	4,868	4,887	3,035	2,307	1,859	2,018	2,228	3,681	3,199	4,007
2007	5,003	3,536	3,198	1,795	2,472	2,215	1,892	2,393	2,370	2,309	2,560	1,488	2,599
2008	1,102	3,439	3,219	2,446	2,385	1,424	1,265	2,154	1,308	1,532	2,888	4,280	2,280
2009	3,587	1,876	7,275	6,442	3,600	2,101	1,809	1,902	11,750	9,245	11,740	16,350	6,494
2010	10,590	12,280	11,340	4,058	7,585	3,733	2,790	2,707	1,595	2,118	2,839	4,057	5,445
2011	3,115	4,413	8,395	7,474	4,239	3,106	2,231	2,858	2,867	2,751	2,905	2,076	3,862
2012	3,844	2,301	4,781	3,330	2,250	1,719	2,365	1,670	1,644	2,284	3,194	2,039	2,623
2013	3,395	7,448	5,306	4,880	10,120	6,345	9,653	6,284	3,604	3,098	3,894	10,880	6,249
2014	8,344	7,220	5,653	9,945	4,499	3,212	3,191	3,210	2,500	2,605	2,602	4,082	4,737

Non-Exceedance Percentiles

03130002 - Middle Chattahoochee - Lake Harding Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488	2,280
5th %	2,376	2,743	2,821	2,422	2,058	1,803	1,802	1,667	1,605	1,617	2,404	2,013	2,621
10th %	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072	2,771
15th %	3,263	3,521	3,184	3,195	2,398	2,349	2,296	2,211	2,059	2,088	2,634	2,371	2,905
20th %	3,549	3,726	3,215	3,413	2,507	2,694	2,373	2,644	2,321	2,206	2,795	2,794	3,383
30th %	3,832	4,696	4,505	3,910	2,900	3,126	2,999	3,407	2,630	2,347	2,900	3,233	3,979
40th %	4,446	5,676	5,641	4,521	3,492	3,359	3,412	3,897	3,364	2,653	3,310	3,978	4,963
Median	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341	5,529
60th %	5,697	7,288	8,686	6,136	4,892	4,331	4,392	4,407	3,842	3,245	4,222	5,247	6,124
70th %	7,128	8,019	10,001	7,320	5,506	5,035	4,658	4,719	4,395	3,858	4,528	6,558	6,268
80th %	8,455	9,390	10,852	9,530	7,132	5,467	5,102	5,009	4,805	4,718	6,234	7,633	6,727
90th %	10,021	12,073	14,903	12,365	9,110	6,373	6,517	5,804	5,591	5,489	7,943	10,160	6,950
Maximum	13,730	18,980	19,540	16,480	17,380	13,630	14,780	8,890	11,750	9,245	11,740	16,350	7,889
Average	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571	5,182

	Flows in CFS
Minimum	1,102.0
5th %	1,867
10th %	2,173
15th %	2,443
20th %	2,718
30th %	3,217
40th %	3,685
Median	4,241
60th %	4,863
70th %	5,667
80th %	7,298
90th %	9,950
Maximum	19,540
Average	5,193

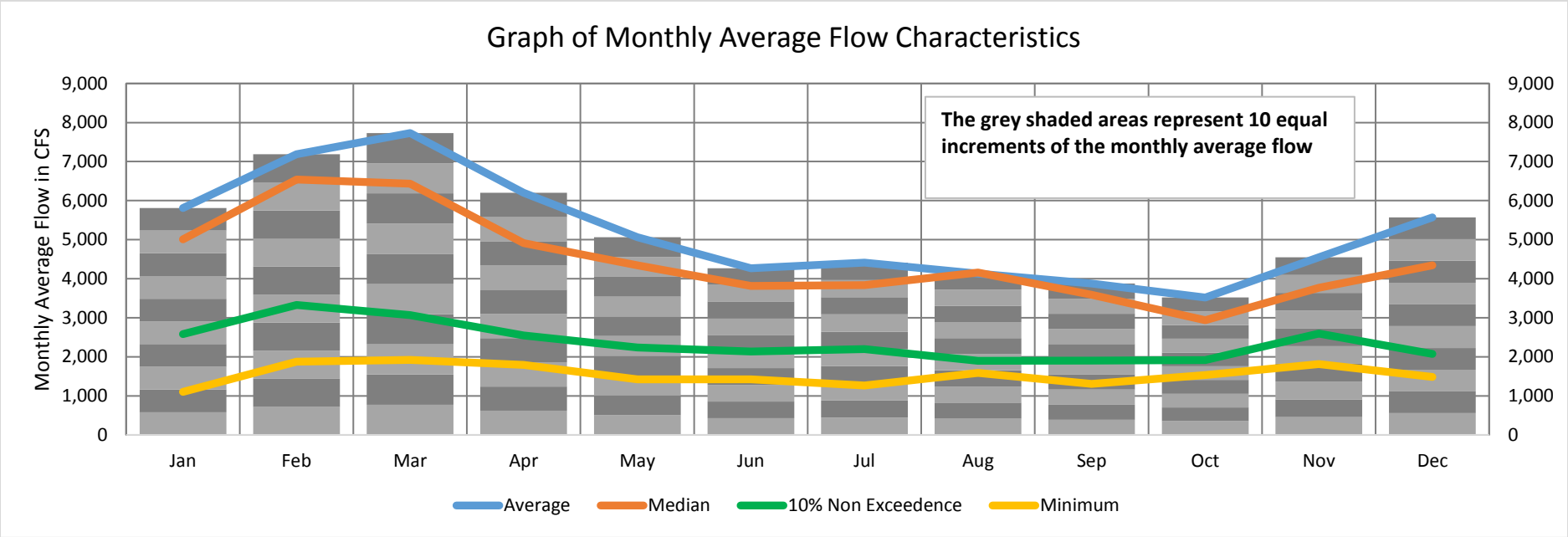


Q10/Q50	0.51
Q10/Q90	0.22
	CFSM*
Qmin/DA	0.31
Q5/DA	0.53
Q10/DA	0.61
Q15/DA	0.69
Q20/DA	0.77
Q30/DA	0.91
Q40/DA	1.04
Q50/DA	1.19
Q60/DA	1.37
Q70/DA	1.60
Q80/DA	2.06
Q90/DA	2.80
Qmax/DA	5.50

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 03130002 Name: Middle Chattahoochee - Lake Harding Subbasin

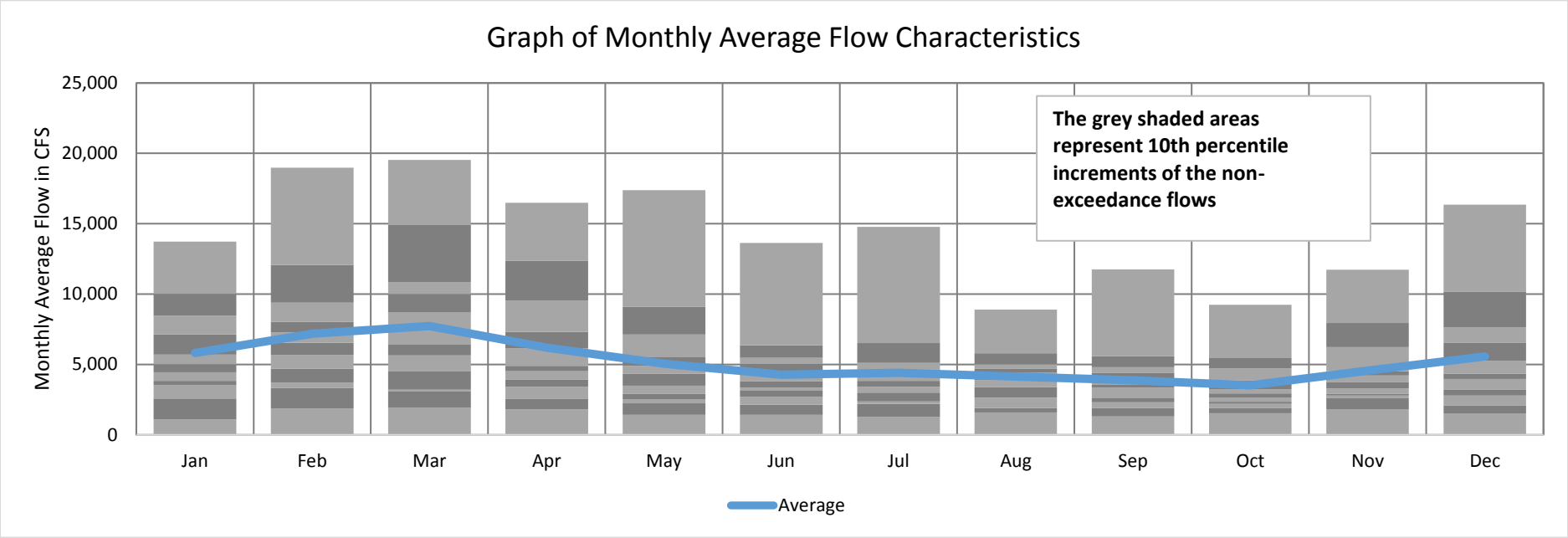
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571
100%	13,730	18,980	19,540	16,480	17,380	13,630	14,780	8,890	11,750	9,245	11,740	16,350
98%	11,694	16,726	17,333	13,664	12,333	9,096	11,488	7,944	9,578	8,692	11,124	15,203
95%	10,617	15,843	15,428	12,718	10,540	6,783	10,541	7,438	7,841	7,809	8,979	13,142
90%	10,021	12,073	14,903	12,365	9,110	6,373	6,517	5,804	5,591	5,489	7,943	10,160
75%	7,627	8,778	10,373	7,855	6,813	5,225	4,871	4,774	4,567	3,957	5,368	7,042
50%	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341
25%	3,749	4,252	3,477	3,552	2,785	3,024	2,592	2,956	2,448	2,271	2,835	3,062
10%	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072
5%	2,376	2,743	2,821	2,422	2,058	1,803	1,802	1,667	1,605	1,617	2,404	2,013
2%	1,935	2,208	2,373	1,924	1,598	1,654	1,582	1,606	1,532	1,573	1,988	1,784
0%	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488

Site #: 03130002 Name: Middle Chattahoochee - Lake Harding Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,550 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571
100%	13,730	18,980	19,540	16,480	17,380	13,630	14,780	8,890	11,750	9,245	11,740	16,350
98%	11,694	16,726	17,333	13,664	12,333	9,096	11,488	7,944	9,578	8,692	11,124	15,203
95%	10,617	15,843	15,428	12,718	10,540	6,783	10,541	7,438	7,841	7,809	8,979	13,142
90%	10,021	12,073	14,903	12,365	9,110	6,373	6,517	5,804	5,591	5,489	7,943	10,160
75%	7,627	8,778	10,373	7,855	6,813	5,225	4,871	4,774	4,567	3,957	5,368	7,042
50%	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341
25%	3,749	4,252	3,477	3,552	2,785	3,024	2,592	2,956	2,448	2,271	2,835	3,062
10%	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072
5%	2,376	2,743	2,821	2,422	2,058	1,803	1,802	1,667	1,605	1,617	2,404	2,013
2%	1,935	2,208	2,373	1,924	1,598	1,654	1,582	1,606	1,532	1,573	1,988	1,784
0%	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488

Monthly Flows (in CFS) for

03130003 - Middle Chattahoochee-Walter F. George Subbasin

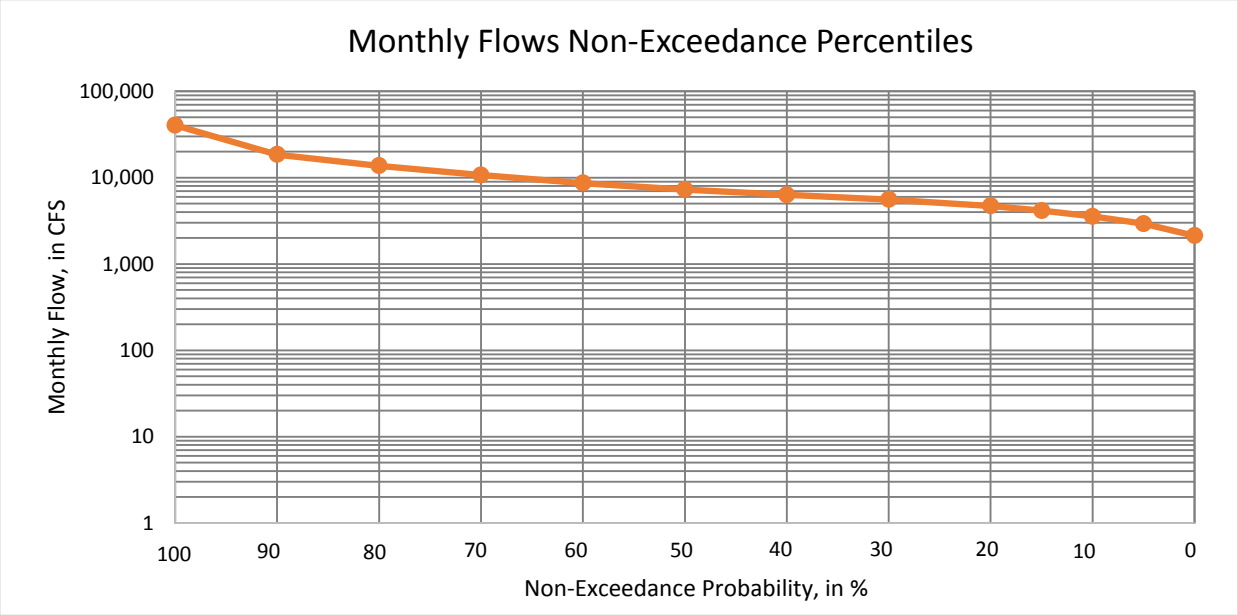
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975										15,526	12,600	12,289	
1976	16,412	14,875	19,759	14,301	14,707	12,751	9,681	7,191	6,563	6,251	9,870	18,247	12,550
1977	14,945	8,538	21,722	18,186	8,213	6,305	5,237	6,579	6,157	5,762	15,069	10,644	10,621
1978	28,415	16,509	19,421	10,347	16,981	8,494	5,959	11,128	7,426	5,862	4,526	5,237	11,696
1979	11,548	21,032	18,891	29,883	11,754	7,910	6,316	7,085	7,302	7,631	10,662	8,427	12,282
1980	11,522	13,124	31,305	24,910	18,343	8,453	7,280	7,230	5,929	4,978	4,969	4,734	11,897
1981	4,689	14,804	7,011	12,494	4,870	5,176	5,426	6,128	4,990	3,405	3,047	4,034	6,269
1982	13,532	23,427	9,915	13,178	7,924	6,204	6,305	8,599	5,825	5,368	5,837	19,412	10,383
1983	14,760	18,465	24,002	23,993	8,778	8,272	7,256	6,639	6,233	6,458	7,142	22,067	12,808
1984	17,453	15,016	19,508	13,718	14,354	6,858	7,290	13,603	7,390	5,046	5,156	7,091	11,038
1985	6,004	14,036	9,250	7,134	4,518	4,528	4,670	7,912	7,179	5,908	3,712	8,241	6,880
1986	6,920	9,545	12,316	5,305	4,782	3,959	4,672	2,378	2,336	2,454	7,398	10,113	6,000
1987	15,236	14,619	17,829	9,717	5,674	9,311	9,165	5,406	5,630	5,320	3,116	4,914	8,801
1988	9,098	10,437	7,462	7,026	6,387	4,566	2,493	2,121	4,294	5,617	6,166	5,474	5,896
1989	5,644	4,811	8,284	14,169	6,811	11,155	14,275	8,170	7,707	10,455	10,922	17,959	10,063
1990	23,384	26,747	40,382	12,956	8,459	8,571	5,084	5,298	4,539	4,583	5,611	5,067	12,491
1991	7,758	11,468	15,869	8,959	17,383	10,608	9,485	8,585	9,834	7,791	5,306	8,654	10,147
1992	12,209	16,342	14,857	8,346	6,719	5,195	6,618	6,206	8,050	6,672	21,239	22,420	11,203
1993	20,720	15,113	21,325	14,795	10,185	6,029	5,630	6,490	5,054	5,428	5,971	7,123	10,308
1994	8,230	15,438	14,204	9,409	7,352	5,324	33,827	11,280	11,003	9,376	9,735	11,968	12,273
1995	11,388	23,659	20,270	7,732	7,057	4,542	5,773	6,435	5,483	8,395	12,137	11,593	10,295
1996	14,884	24,773	27,258	12,725	9,744	6,736	7,235	6,305	6,161	6,815	5,355	8,530	11,306
1997	13,151	19,594	16,789	10,221	9,349	10,041	9,172	6,863	7,001	5,957	10,392	21,058	11,591
1998	20,080	30,222	34,348	18,917	12,102	6,008	7,091	6,229	5,721	5,022	6,319	5,744	13,053
1999	6,575	10,680	8,620	4,906	4,510	7,412	4,810	7,065	3,887	3,005	3,142	3,676	5,659
2000	5,865	8,464	6,722	9,113	5,037	3,953	3,129	3,597	3,039	2,808	3,346	5,759	5,044
2001	7,209	5,940	25,791	12,128	5,395	9,247	4,594	4,487	3,045	2,769	2,870	3,063	7,226
2002	4,356	7,295	6,987	6,637	3,955	3,374	3,317	2,946	2,637	2,416	6,471	10,347	5,046
2003	5,911	11,959	18,526	12,840	20,686	18,099	17,584	10,041	5,848	5,578	7,234	8,847	11,939
2004	9,789	14,892	6,132	5,311	3,775	3,759	5,662	4,858	13,053	6,558	12,298	12,956	8,195
2005	10,077	13,124	21,834	22,317	8,076	12,164	21,161	14,919	6,573	4,052	6,296	9,171	12,482
2006	11,656	11,691	12,316	7,616	7,386	3,679	3,353	2,631	3,417	3,144	6,454	5,189	6,516
2007	9,942	7,489	8,816	6,210	4,014	2,904	2,641	3,173	2,739	2,790	2,597	2,326	4,625
2008	5,337	12,004	8,424	7,298	4,029	2,401	2,526	6,323	2,538	3,565	5,359	12,831	6,022
2009	8,368	4,459	22,541	21,075	9,482	5,230	3,421	3,964	13,913	14,860	22,100	39,950	14,177
2010	24,040	23,940	21,110	8,266	13,790	5,606	4,223	4,347	2,917	4,229	3,739	6,345	10,156
2011	5,563	10,440	14,210	11,380	4,415	3,552	3,602	4,032	4,797	3,555	4,046	2,359	5,960
2012	8,090	6,269	9,776	6,146	3,048	3,344	4,020	2,544	2,923	3,108	3,497	2,771	4,622
2013	5,948	24,450	13,020	9,585	12,120	8,709	17,030	12,010	5,143	4,705	4,629	16,320	11,075
2014	13,560	15,300	11,310	27,040	7,972	4,918	4,980	4,976	4,348	4,482	3,724	6,552	9,036

Non-Exceedance Percentiles

03130003 - Middle Chattahoochee-Walter F. George Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326	4,622
5th %	5,272	5,827	6,961	5,310	3,937	3,300	2,630	2,527	2,627	2,753	3,038	2,750	5,002
10th %	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615	5,537
15th %	5,897	8,171	8,382	6,909	4,482	3,735	3,401	3,470	3,004	3,093	3,474	4,629	5,941
20th %	5,981	9,142	8,737	7,232	4,676	3,957	3,853	4,005	3,268	3,353	3,722	5,037	6,013
30th %	7,428	10,995	10,473	8,298	5,507	4,707	4,671	4,905	4,424	4,176	4,598	5,663	7,019
40th %	8,514	12,228	13,257	9,444	6,860	5,249	5,115	6,143	5,072	4,869	5,335	6,876	9,241
Median	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479	10,295
60th %	11,634	14,991	18,818	12,678	8,410	6,834	6,313	6,627	6,112	5,675	6,373	9,548	10,955
70th %	13,549	15,981	20,066	13,502	9,639	8,380	7,247	7,149	6,569	6,045	7,283	11,706	11,477
80th %	15,061	20,169	21,767	16,152	12,109	8,924	9,168	8,336	7,337	6,701	10,446	13,629	12,073
90th %	20,208	24,042	26,084	22,652	15,162	10,717	14,826	11,158	8,407	8,493	12,328	19,577	12,503
Maximum	28,415	30,222	40,382	29,883	20,686	18,099	33,827	14,919	13,913	15,526	22,100	39,950	14,177
Average	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238	9,426

	Flows in CFS
Minimum	2,121.0
5th %	2,920
10th %	3,552
15th %	4,138
20th %	4,705
30th %	5,578
40th %	6,316
Median	7,280
60th %	8,620
70th %	10,680
80th %	13,718
90th %	18,526
Maximum	40,382
Average	9,479

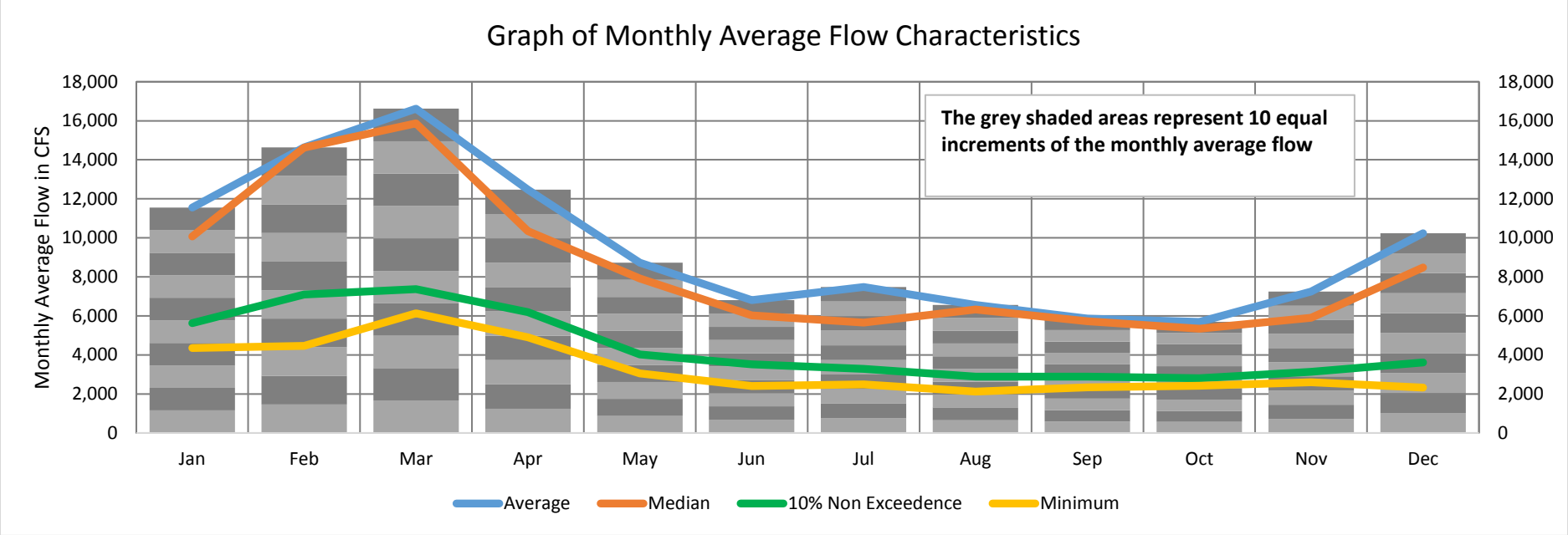


Q10/Q50	0.49
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.28
Q5/DA	0.39
Q10/DA	0.48
Q15/DA	0.55
Q20/DA	0.63
Q30/DA	0.75
Q40/DA	0.85
Q50/DA	0.98
Q60/DA	1.16
Q70/DA	1.43
Q80/DA	1.84
Q90/DA	2.48
Qmax/DA	5.41

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 03130003 Name: Middle Chattahoochee-Walter F. George Subbasin

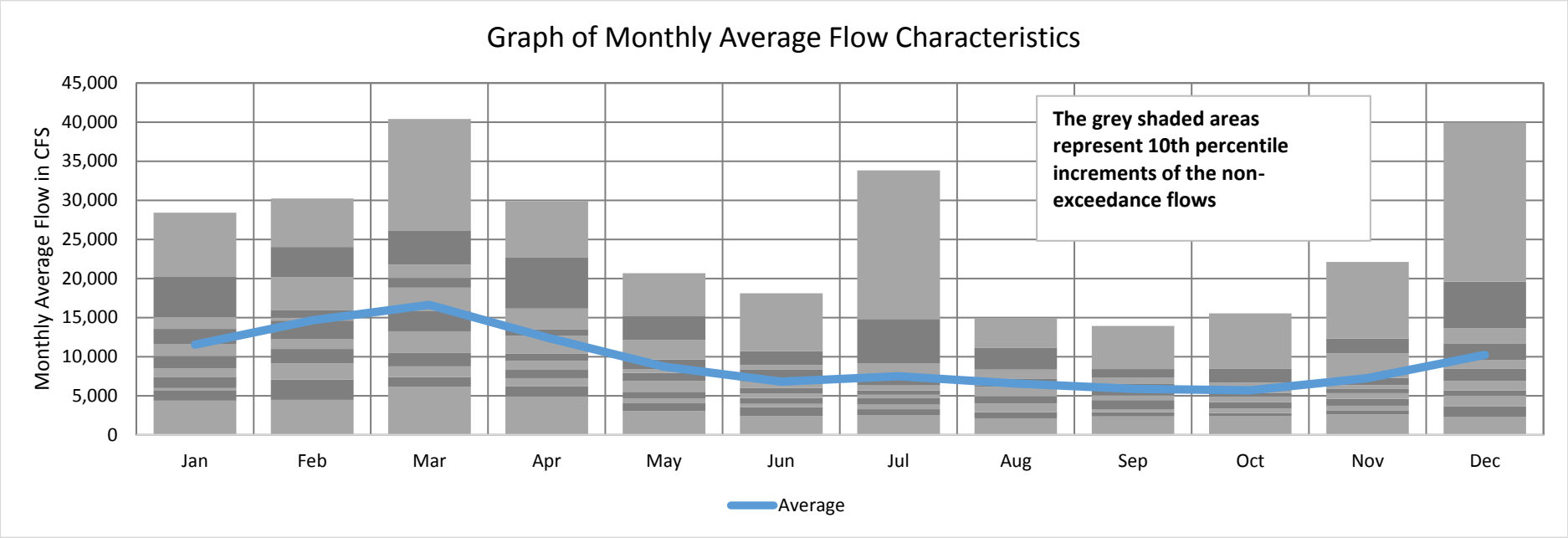
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238
100%	28,415	30,222	40,382	29,883	20,686	18,099	33,827	14,919	13,913	15,526	22,100	39,950
98%	25,090	27,581	35,796	27,722	18,905	14,035	24,201	13,919	13,260	15,007	21,428	26,277
95%	23,449	24,971	31,609	25,123	17,479	12,223	17,942	12,169	11,208	10,676	15,377	22,085
90%	20,208	24,042	26,084	22,652	15,162	10,717	14,826	11,158	8,407	8,493	12,328	19,577
75%	14,822	17,487	21,218	14,235	10,970	8,532	7,285	7,571	7,090	6,483	9,769	12,424
50%	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479
25%	6,748	10,439	9,513	7,674	4,954	4,535	4,409	4,417	4,090	3,562	3,969	5,225
10%	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615
5%	5,272	5,827	6,961	5,310	3,937	3,300	2,630	2,527	2,627	2,753	3,038	2,750
2%	4,609	4,727	6,580	5,209	3,601	2,784	2,518	2,316	2,490	2,445	2,810	2,352
0%	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326

Site #: 03130003 Name: Middle Chattahoochee-Walter F. George Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 7,460 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238
100%	28,415	30,222	40,382	29,883	20,686	18,099	33,827	14,919	13,913	15,526	22,100	39,950
98%	25,090	27,581	35,796	27,722	18,905	14,035	24,201	13,919	13,260	15,007	21,428	26,277
95%	23,449	24,971	31,609	25,123	17,479	12,223	17,942	12,169	11,208	10,676	15,377	22,085
90%	20,208	24,042	26,084	22,652	15,162	10,717	14,826	11,158	8,407	8,493	12,328	19,577
75%	14,822	17,487	21,218	14,235	10,970	8,532	7,285	7,571	7,090	6,483	9,769	12,424
50%	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479
25%	6,748	10,439	9,513	7,674	4,954	4,535	4,409	4,417	4,090	3,562	3,969	5,225
10%	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615
5%	5,272	5,827	6,961	5,310	3,937	3,300	2,630	2,527	2,627	2,753	3,038	2,750
2%	4,609	4,727	6,580	5,209	3,601	2,784	2,518	2,316	2,490	2,445	2,810	2,352
0%	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326

Monthly Flows (in CFS) for
03130004 - Lower Chattahoochee Subbasin

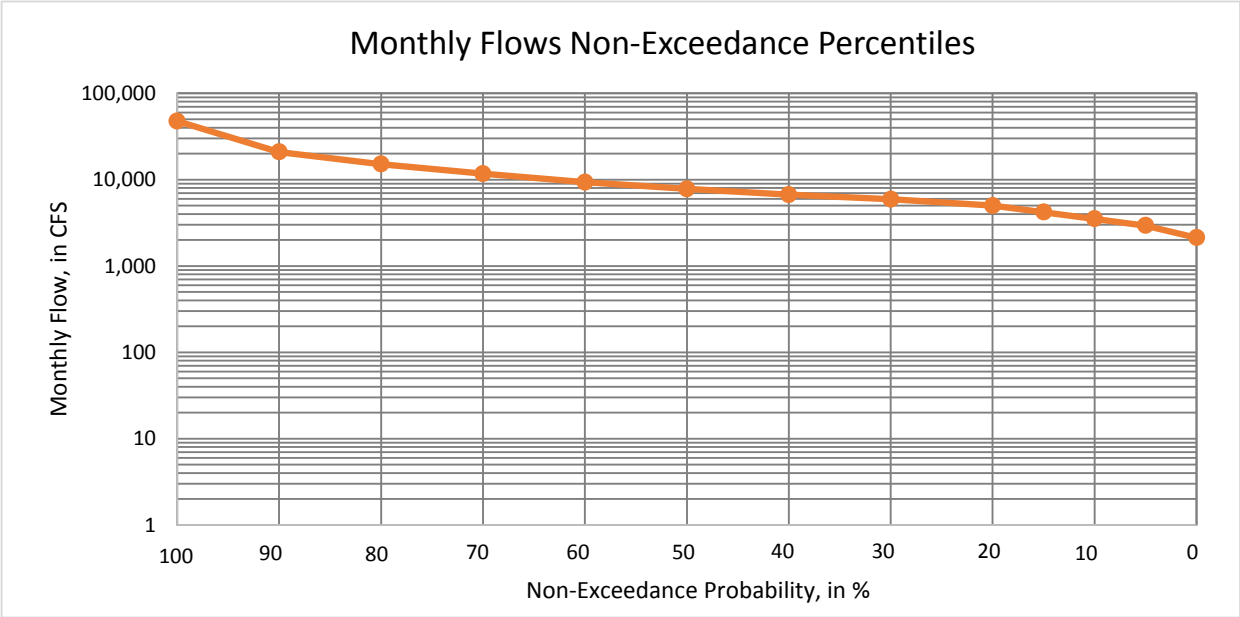
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975										17,341	13,910	13,548	
1976	18,388	16,574	22,369	15,901	16,377	14,087	10,531	7,694	6,986	6,636	10,749	20,565	13,904
1977	16,657	9,223	24,721	20,492	8,853	6,696	5,505	7,004	6,531	6,090	16,802	11,640	11,695
1978	32,827	18,502	21,964	11,298	19,062	9,172	6,309	12,200	7,960	6,201	4,719	5,505	12,983
1979	12,687	23,892	21,332	34,620	12,926	8,508	6,708	7,574	7,820	8,192	11,661	9,097	13,647
1980	12,656	14,522	36,362	28,567	20,679	9,126	7,795	7,738	6,275	5,218	5,208	4,948	13,258
1981	4,899	16,491	7,491	13,786	5,099	5,437	5,714	6,498	5,231	3,494	3,108	4,179	6,705
1982	14,999	26,774	10,801	14,584	8,525	6,583	6,696	9,293	6,159	5,650	6,173	21,954	11,425
1983	16,440	20,824	27,468	27,458	9,497	8,919	7,767	7,071	6,616	6,868	7,638	25,136	14,273
1984	19,622	16,740	22,068	15,216	15,963	7,318	7,806	15,082	7,919	5,294	5,415	7,581	12,166
1985	6,359	15,590	10,037	7,630	4,710	4,721	4,878	8,511	7,681	6,252	3,828	8,885	7,372
1986	7,388	10,376	13,579	5,581	5,001	4,097	4,880	2,391	2,348	2,472	7,927	11,029	6,406
1987	16,999	16,274	20,067	10,573	5,991	10,107	9,939	5,693	5,941	5,597	3,182	5,147	9,595
1988	9,863	11,402	8,000	7,508	6,788	4,763	2,514	2,120	4,463	5,927	6,541	5,768	6,268
1989	5,957	5,033	8,934	15,745	7,265	12,231	15,869	8,804	8,278	11,423	11,962	20,223	11,014
1990	26,722	30,796	47,577	14,325	9,133	9,260	5,335	5,572	4,733	4,782	5,921	5,316	14,047
1991	8,336	12,594	17,746	9,704	19,539	11,599	10,306	9,277	10,707	8,373	5,582	9,356	11,099
1992	13,454	18,305	16,554	9,004	7,161	5,458	7,048	6,585	8,668	7,109	24,141	25,561	12,379
1993	23,519	16,854	24,245	16,481	11,112	6,387	5,941	6,904	5,302	5,717	6,323	7,618	11,352
1994	8,872	17,238	15,787	10,219	7,876	5,601	39,461	12,376	12,055	10,181	10,593	13,174	13,634
1995	12,501	27,054	22,980	8,307	7,543	4,737	6,101	6,842	5,779	9,060	13,371	12,739	11,326
1996	16,585	28,401	31,418	14,055	10,604	7,181	7,744	6,696	6,535	7,270	5,636	9,214	12,528
1997	14,553	22,172	18,834	11,153	10,151	10,946	9,948	7,324	7,480	6,307	11,350	23,923	12,797
1998	22,752	35,035	40,104	21,363	13,330	6,364	7,581	6,611	6,043	5,267	6,713	6,069	14,654
1999	7,000	11,682	9,316	5,138	4,702	7,944	5,032	7,551	4,019	3,062	3,210	3,789	6,001
2000	6,204	9,138	7,165	9,880	5,283	4,090	3,196	3,703	3,099	2,850	3,430	6,086	5,315
2001	7,714	6,288	29,635	13,361	5,680	10,034	4,794	4,676	3,105	2,809	2,917	3,124	7,863
2002	4,532	7,811	7,464	7,069	4,092	3,461	3,399	2,999	2,668	2,432	6,883	11,298	5,326
2003	6,256	13,164	20,897	14,190	23,478	20,389	19,777	10,946	6,185	5,884	7,743	9,576	13,219
2004	10,656	16,595	6,503	5,587	3,896	3,879	5,978	5,085	14,439	6,981	13,558	14,325	8,890
2005	10,987	14,522	24,856	25,437	8,697	13,402	24,048	16,626	6,998	4,199	6,687	9,947	13,870
2006	12,812	12,853	13,579	8,175	7,914	3,792	3,438	2,661	3,507	3,212	6,864	5,451	6,989
2007	10,832	8,031	9,540	6,590	4,158	2,954	2,672	3,243	2,777	2,832	2,625	2,336	4,869
2008	5,616	13,216	9,094	7,814	4,173	2,416	2,549	6,717	2,562	3,667	5,640	14,180	6,435
2009	9,029	4,645	25,706	23,944	10,303	5,497	3,512	4,103	15,444	15,310	23,830	44,965	15,595
2010	28,391	28,287	23,219	8,775	14,688	6,005	4,280	4,049	2,730	4,204	3,822	6,349	11,158
2011	5,720	11,278	14,999	11,827	4,319	3,288	3,918	3,711	4,471	4,027	4,318	2,601	6,167
2012	7,811	6,290	9,463	6,029	2,995	3,118	3,871	2,739	2,873	3,038	3,358	2,911	4,535
2013	5,747	27,458	13,516	10,023	12,895	9,229	19,249	14,004	6,118	5,080	5,193	18,243	12,155
2014	15,362	17,683	13,827	31,449	10,676	5,975	5,586	5,150	4,773	5,016	4,140	7,698	10,542

Non-Exceedance Percentiles

03130004 - Lower Chattahoochee Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336	4,535
5th %	5,544	6,162	7,434	5,586	4,073	3,102	2,660	2,634	2,657	2,792	3,098	2,895	5,270
10th %	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722	5,866
15th %	6,130	8,806	9,046	7,376	4,587	3,853	3,490	3,565	3,031	3,058	3,419	4,833	6,238
20th %	6,318	9,915	9,404	7,741	4,885	4,095	3,899	3,914	3,346	3,438	3,827	5,283	6,423
30th %	7,753	12,047	11,887	8,867	5,805	5,032	4,879	5,111	4,575	4,203	5,051	5,979	7,569
40th %	9,196	13,477	14,062	10,063	7,321	5,676	5,521	6,515	5,397	5,163	5,614	7,603	10,637
Median	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155	11,326
60th %	12,787	16,711	21,245	14,002	9,424	7,291	6,706	7,058	6,480	5,992	6,773	10,380	12,063
70th %	15,216	18,057	22,735	14,964	10,647	9,043	7,758	7,646	6,993	6,406	7,798	12,870	12,690
80th %	16,794	22,860	24,775	18,086	13,087	9,570	9,943	8,993	7,859	7,141	11,412	15,109	13,408
90th %	22,905	27,624	29,991	25,841	16,914	11,725	16,545	12,235	9,076	9,172	13,593	22,151	13,933
Maximum	32,827	35,035	47,577	34,620	23,478	20,389	39,461	16,626	15,444	17,341	24,141	44,965	15,595
Average	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276	10,345

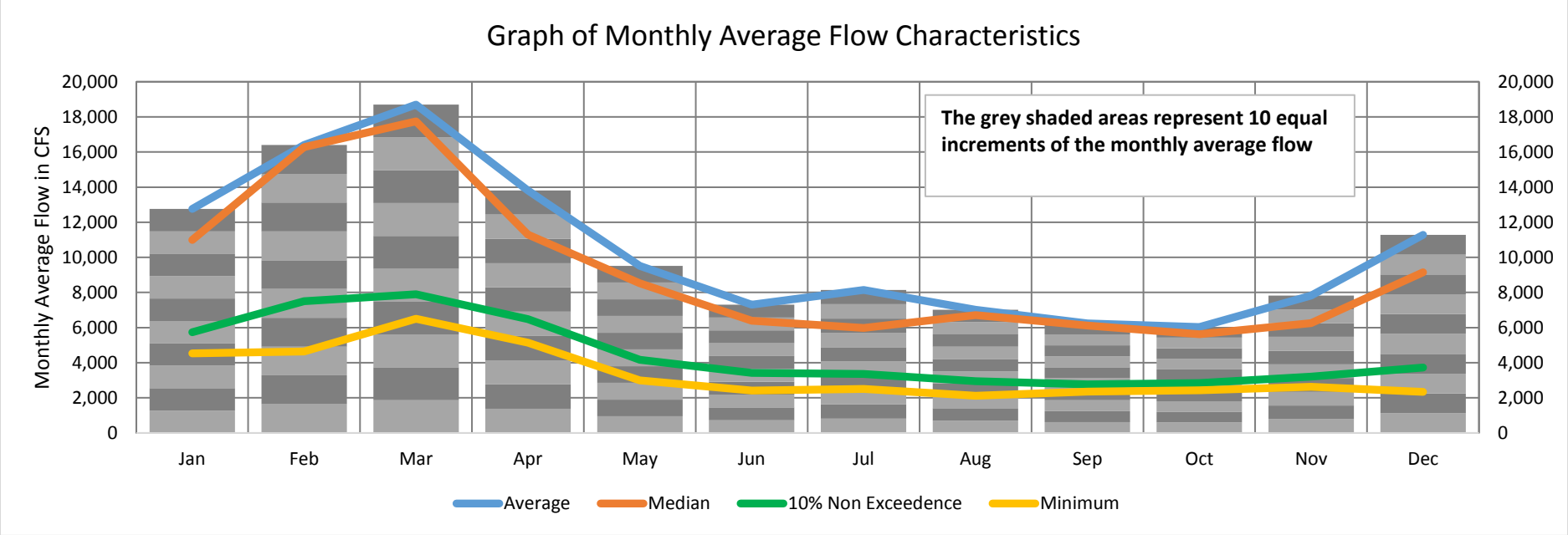
	Flows in CFS
Minimum	2,119.7
5th %	2,935
10th %	3,512
15th %	4,202
20th %	5,001
30th %	5,921
40th %	6,696
Median	7,795
60th %	9,316
70th %	11,682
80th %	15,082
90th %	20,897
Maximum	47,577
Average	10,406



Q10/Q50	0.45
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.25
Q5/DA	0.34
Q10/DA	0.41
Q15/DA	0.49
Q20/DA	0.59
Q30/DA	0.70
Q40/DA	0.79
Q50/DA	0.92
Q60/DA	1.09
Q70/DA	1.37
Q80/DA	1.77
Q90/DA	2.46
Qmax/DA	5.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

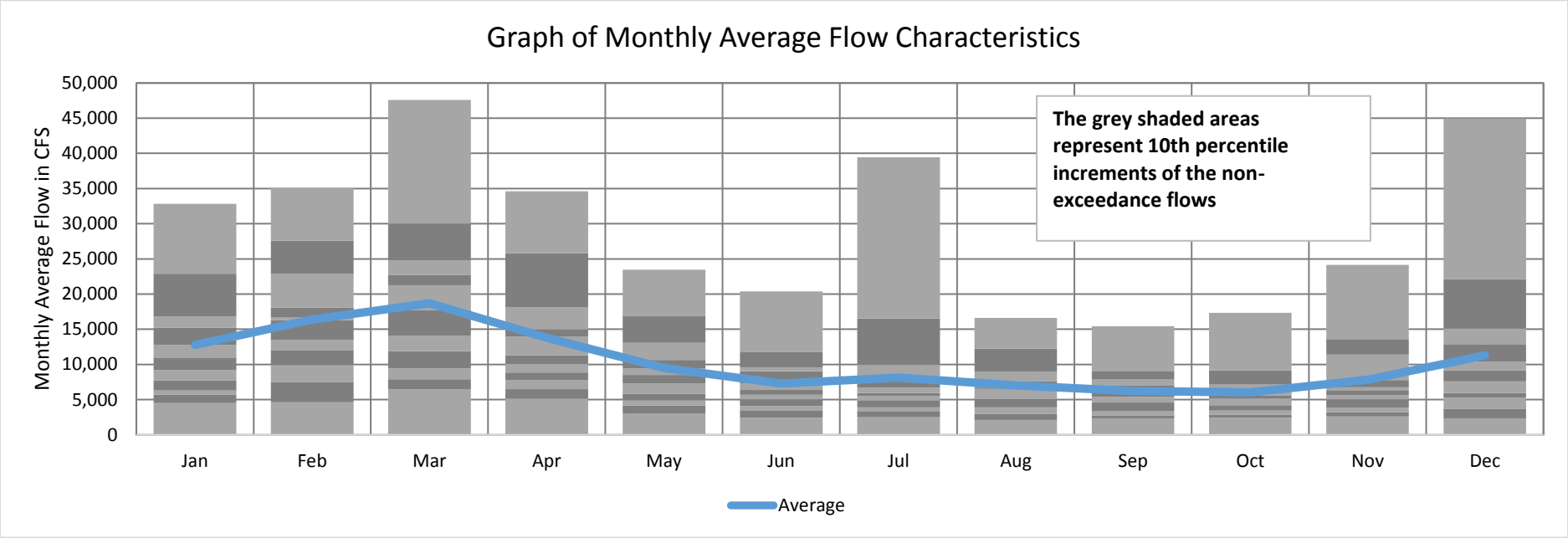
Site #: 03130004 Name: Lower Chattahoochee Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276
100%	32,827	35,035	47,577	34,620	23,478	20,389	39,461	16,626	15,444	17,341	24,141	44,965
98%	29,456	31,813	41,897	32,210	21,351	15,599	27,747	15,452	14,680	15,757	23,898	29,830
95%	26,889	28,641	36,736	28,855	19,653	13,471	20,204	14,111	12,293	11,617	17,154	25,157
90%	22,905	27,624	29,991	25,841	16,914	11,725	16,545	12,235	9,076	9,172	13,593	22,151
75%	16,512	19,663	23,732	15,823	12,003	9,201	7,800	8,124	7,580	6,896	10,632	13,706
50%	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155
25%	7,194	11,340	9,789	8,241	5,191	4,729	4,537	4,389	4,241	3,937	4,274	5,492
10%	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722
5%	5,544	6,162	7,434	5,586	4,073	3,102	2,660	2,634	2,657	2,792	3,098	2,895
2%	4,811	4,940	7,006	5,475	3,680	2,825	2,540	2,326	2,511	2,463	2,853	2,543
0%	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336

Site #: 03130004 Name: Lower Chattahoochee Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,510 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276
100%	32,827	35,035	47,577	34,620	23,478	20,389	39,461	16,626	15,444	17,341	24,141	44,965
98%	29,456	31,813	41,897	32,210	21,351	15,599	27,747	15,452	14,680	15,757	23,898	29,830
95%	26,889	28,641	36,736	28,855	19,653	13,471	20,204	14,111	12,293	11,617	17,154	25,157
90%	22,905	27,624	29,991	25,841	16,914	11,725	16,545	12,235	9,076	9,172	13,593	22,151
75%	16,512	19,663	23,732	15,823	12,003	9,201	7,800	8,124	7,580	6,896	10,632	13,706
50%	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155
25%	7,194	11,340	9,789	8,241	5,191	4,729	4,537	4,389	4,241	3,937	4,274	5,492
10%	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722
5%	5,544	6,162	7,434	5,586	4,073	3,102	2,660	2,634	2,657	2,792	3,098	2,895
2%	4,811	4,940	7,006	5,475	3,680	2,825	2,540	2,326	2,511	2,463	2,853	2,543
0%	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336

Monthly Flows (in CFS) for
03130012 - Chipola River Basin Subbasin in Alabama

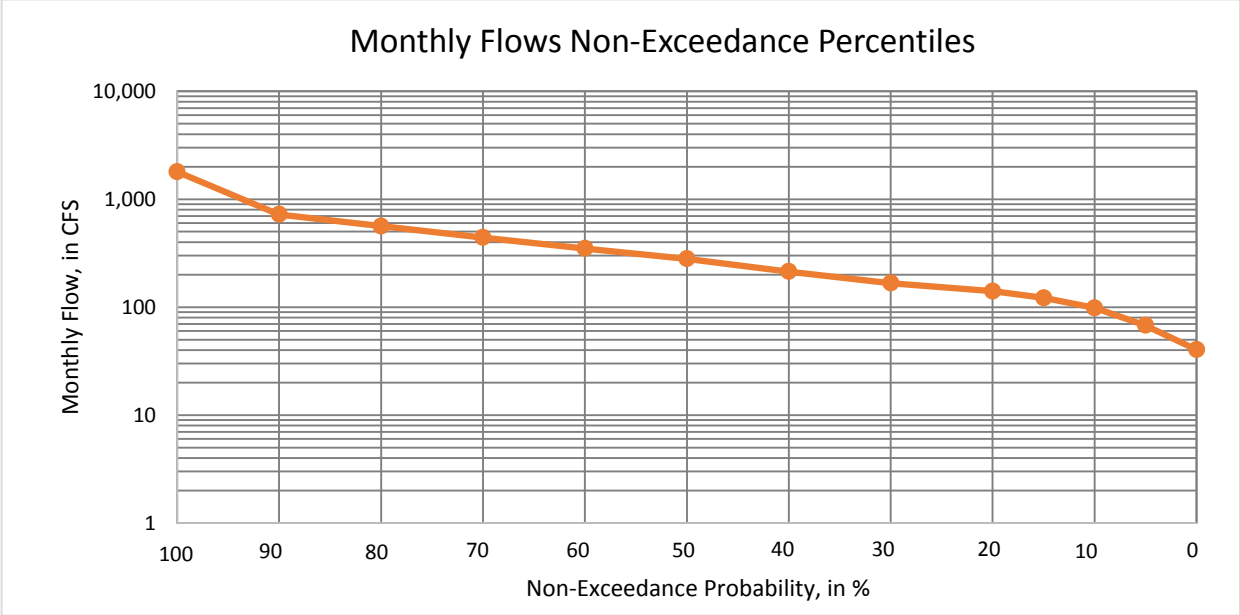
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	502	523	646	1,326	490	422	409	883	414	559	394	310	573
1976	486	581	424	306	460	402	258	174	149	234	273	635	364
1977	711	427	536	323	171	131	122	155	367	151	456	336	323
1978	596	808	1,162	528	626	476	269	360	152	122	116	205	450
1979	473	857	876	623	561	279	522	378	745	572	315	308	540
1980	381	495	961	1,152	652	322	219	172	140	147	154	133	410
1981	147	294	316	254	136	147	98	100	98	68	64	79	149
1982	304	748	442	290	229	196	269	441	290	178	194	489	337
1983	700	896	913	1,111	508	418	366	189	276	157	173	602	523
1984	605	751	1,120	828	329	290	373	486	218	156	141	126	450
1985	136	289	243	173	144	114	120	173	123	97	370	605	215
1986	706	1,176	677	289	178	162	119	105	105	81	81	194	317
1987	476	686	842	595	266	433	391	277	163	134	147	143	377
1988	276	562	820	422	195	146	190	155	320	198	162	152	298
1989	182	161	272	263	201	983	848	347	209	301	363	438	382
1990	900	688	550	377	231	192	171	100	59	59	52	68	285
1991	235	743	1,287	617	596	487	421	457	218	158	140	152	458
1992	296	795	959	440	201	352	308	295	298	214	345	618	424
1993	969	631	811	520	226	156	182	122	136	122	178	166	350
1994	272	563	688	599	262	619	1,411	615	413	768	343	472	587
1995	431	694	607	489	382	373	189	274	135	183	255	217	350
1996	231	575	698	620	309	147	140	125	269	459	182	282	335
1997	577	615	404	372	451	396	454	369	178	138	419	700	422
1998	947	1,082	1,437	516	226	165	162	153	407	661	317	241	524
1999	448	407	343	194	237	248	562	243	156	115	121	119	266
2000	151	212	292	173	84	65	64	61	69	61	93	245	130
2001	309	204	787	513	154	325	167	289	133	83	69	84	260
2002	103	127	255	426	101	110	130	119	267	258	668	465	252
2003	470	403	1,015	654	260	322	516	609	399	186	189	211	437
2004	185	619	327	167	355	413	470	161	294	247	333	508	338
2005	425	303	471	1,153	481	496	620	611	287	164	155	431	467
2006	687	460	316	161	179	91	75	77	71	65	97	141	200
2007	290	392	286	135	67	51	73	52	48	59	58	131	135
2008	548	1,015	660	359	140	95	141	251	199	148	136	909	380
2009	393	330	593	1,795	569	380	269	190	162	187	198	750	484
2010	926	1,093	522	240	471	156	116	100	68	61	68	77	320
2011	99	233	223	155	70	46	59	57	43	40	41	61	93
2012	153	342	605	181	104	98	80	231	219	199	109	149	205
2013	172	1,156	927	369	205	147	1,003	1,003	520	287	216	327	525
2014	485	532	720	1,145	1,052	340	213	132	141	145	140	312	446

Non-Exceedance Percentiles

03130012 - Chipola River Basin Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	99	127	223	135	67	46	59	52	43	40	41	61	93
5th %	134	202	254	161	83	65	73	61	58	59	58	77	135
10th %	151	231	284	172	104	94	80	97	69	61	67	83	195
15th %	169	293	312	180	139	108	113	100	94	68	79	125	214
20th %	185	325	324	230	152	128	120	116	119	82	96	133	259
30th %	275	406	436	290	190	147	141	147	139	122	132	151	312
40th %	307	512	544	365	218	164	178	167	154	146	145	200	336
Median	428	569	626	424	234	264	216	190	189	157	168	243	357
60th %	474	624	692	514	283	323	269	260	218	180	191	311	393
70th %	516	708	814	596	403	375	379	311	279	198	260	433	440
80th %	621	798	916	629	483	414	457	391	302	249	335	493	460
90th %	730	1,022	1,025	1,145	571	477	568	609	408	469	372	619	524
Maximum	969	1,176	1,437	1,795	1,052	983	1,411	1,003	745	768	668	909	587
Average	435	587	651	521	314	280	314	277	224	206	208	315	360

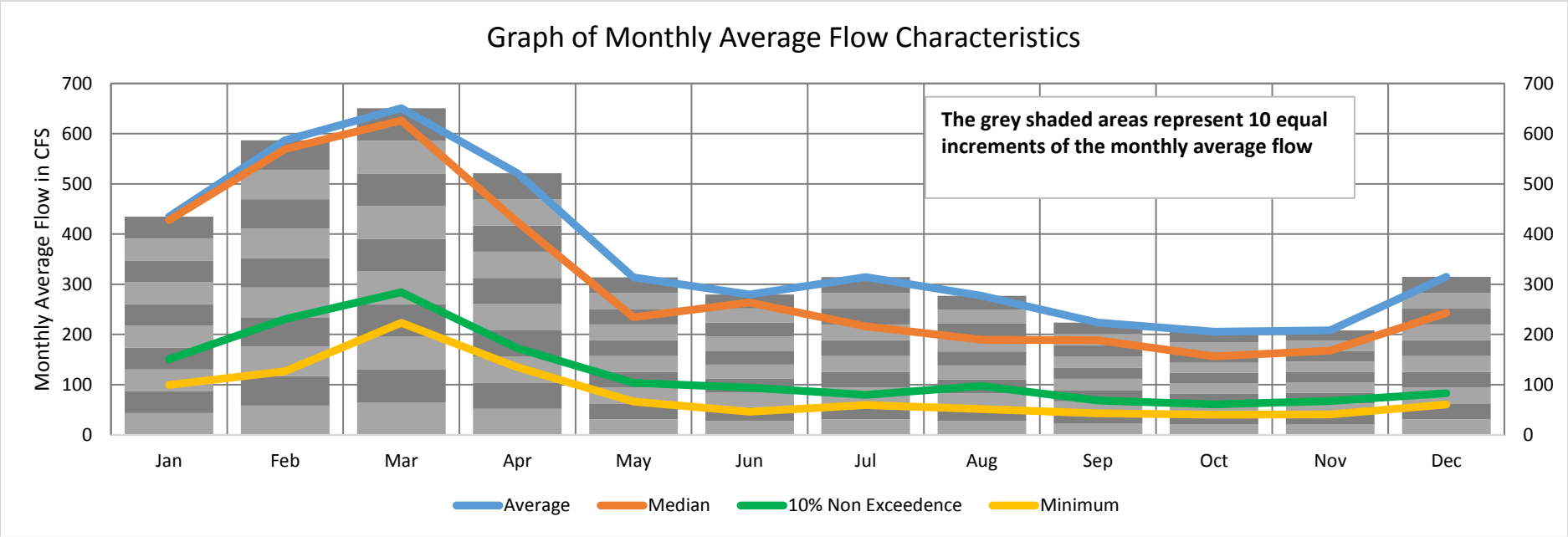
	Flows in CFS
Minimum	40.3
5th %	68
10th %	98
15th %	122
20th %	140
30th %	167
40th %	213
Median	281
60th %	349
70th %	441
80th %	562
90th %	722
Maximum	1,795
Average	361



Q10/Q50	0.35
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.20
Q5/DA	0.34
Q10/DA	0.49
Q15/DA	0.61
Q20/DA	0.70
Q30/DA	0.83
Q40/DA	1.06
Q50/DA	1.40
Q60/DA	1.74
Q70/DA	2.20
Q80/DA	2.80
Q90/DA	3.60
Qmax/DA	8.95

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

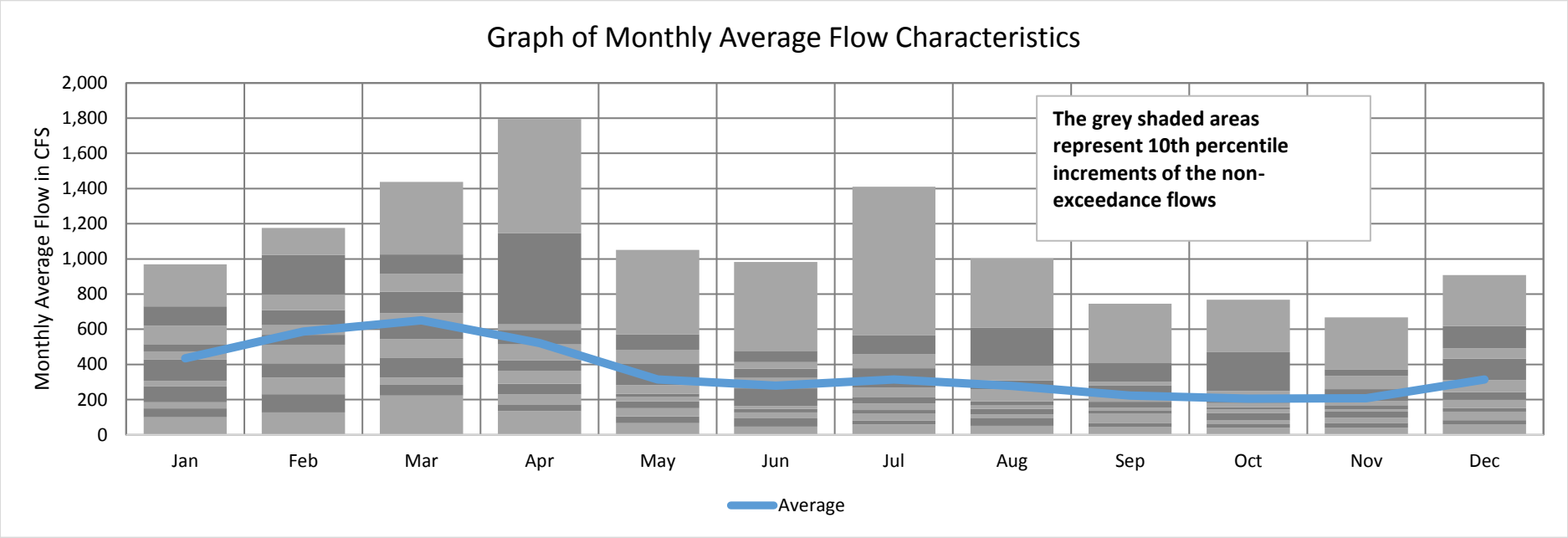
Site #: 03130012 Name: Chipola River Basin Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	435	587	651	521	314	280	314	277	224	206	208	315
100%	969	1,176	1,437	1,795	1,052	983	1,411	1,003	745	768	668	909
98%	952	1,160	1,320	1,429	740	699	1,093	909	569	685	503	785
95%	927	1,096	1,168	1,162	627	502	856	629	419	577	421	703
90%	730	1,022	1,025	1,145	571	477	568	609	408	469	372	619
75%	582	749	850	617	463	397	412	362	291	219	316	467
50%	428	569	626	424	234	264	216	190	189	157	168	243
25%	234	380	388	261	176	147	128	125	135	111	115	142
10%	151	231	284	172	104	94	80	97	69	61	67	83
5%	134	202	254	161	83	65	73	61	58	59	58	77
2%	102	153	239	151	70	50	63	56	47	55	50	66
0%	99	127	223	135	67	46	59	52	43	40	41	61

Site #: 03130012 Name: Chipola River Basin Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 201 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	435	587	651	521	314	280	314	277	224	206	208	315
100%	969	1,176	1,437	1,795	1,052	983	1,411	1,003	745	768	668	909
98%	952	1,160	1,320	1,429	740	699	1,093	909	569	685	503	785
95%	927	1,096	1,168	1,162	627	502	856	629	419	577	421	703
90%	730	1,022	1,025	1,145	571	477	568	609	408	469	372	619
75%	582	749	850	617	463	397	412	362	291	219	316	467
50%	428	569	626	424	234	264	216	190	189	157	168	243
25%	234	380	388	261	176	147	128	125	135	111	115	142
10%	151	231	284	172	104	94	80	97	69	61	67	83
5%	134	202	254	161	83	65	73	61	58	59	58	77
2%	102	153	239	151	70	50	63	56	47	55	50	66
0%	99	127	223	135	67	46	59	52	43	40	41	61

Monthly Flows (in CFS) for
03140103 - Yellow River Subbasin in Alabama

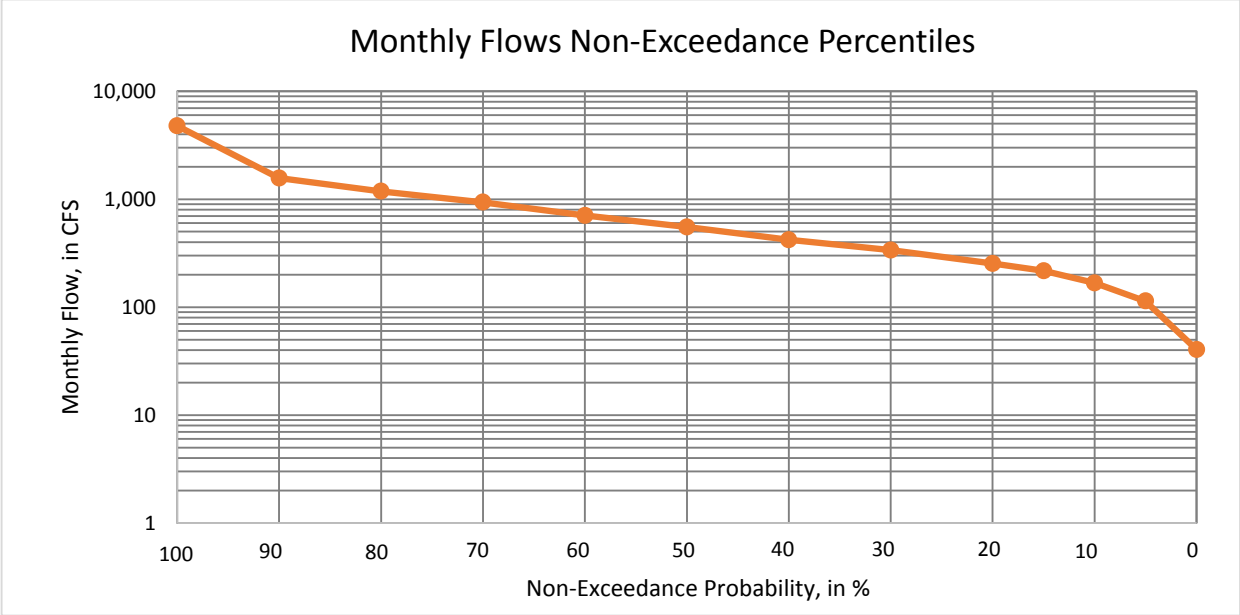
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	810	1,086	1,653	3,847	1,369	1,029	967	3,929	3,098	2,907	1,570	1,365	1,972
1976	1,377	1,303	1,092	1,138	1,568	1,238	512	408	420	480	617	1,290	952
1977	1,194	716	1,472	1,073	252	221	227	772	803	398	767	719	718
1978	2,409	1,335	1,784	973	3,001	1,496	615	707	338	257	261	486	1,141
1979	1,159	2,186	2,520	1,404	623	395	605	481	412	311	424	601	919
1980	858	688	2,815	2,595	1,313	666	303	174	145	218	362	317	872
1981	257	1,210	616	446	340	260	144	270	162	110	156	340	353
1982	1,093	1,999	1,079	728	399	209	359	422	212	147	241	673	622
1983	1,146	1,755	1,681	2,239	992	758	730	434	402	217	366	1,031	973
1984	1,204	875	1,804	889	440	266	461	875	237	209	446	638	697
1985	575	2,055	1,154	452	706	574	390	359	258	262	487	1,069	687
1986	1,358	1,132	1,618	450	314	233	163	154	228	187	538	976	611
1987	979	1,179	1,227	890	597	557	397	440	231	124	319	263	597
1988	747	1,086	1,189	471	261	85	399	264	1,464	661	495	368	620
1989	397	403	843	996	621	2,038	1,483	376	301	959	1,944	1,201	964
1990	2,414	1,773	3,955	1,188	1,043	446	309	193	114	147	168	255	1,000
1991	983	1,911	1,729	667	1,087	932	1,040	932	472	226	483	465	905
1992	1,513	1,913	1,405	789	296	787	647	607	314	320	1,489	1,434	953
1993	1,185	1,052	1,356	1,436	498	229	314	167	259	69	320	385	603
1994	420	783	574	398	144	270	2,367	508	165	250	226	391	542
1995	469	1,209	1,252	470	168	94	57	82	41	1,050	538	1,008	534
1996	1,060	1,548	1,127	1,271	388	258	103	119	393	263	221	518	599
1997	714	1,508	1,090	623	623	639	654	474	160	193	516	1,199	695
1998	1,726	1,748	4,626	1,268	417	189	249	394	2,786	4,778	798	654	1,639
1999	934	546	875	359	600	634	996	344	155	155	169	287	506
2000	369	359	359	325	96	93	56	90	109	40	218	408	209
2001	474	405	2,126	766	198	581	254	683	503	196	188	287	557
2002	336	447	618	441	91	81	150	154	312	517	791	806	395
2003	728	764	1,540	1,479	625	1,043	1,938	1,469	869	382	377	620	988
2004	602	1,407	630	324	625	952	708	463	1,656	991	1,502	1,248	920
2005	953	883	1,159	3,352	913	725	938	1,049	559	303	345	775	994
2006	989	832	742	310	379	108	105	229	211	208	417	244	396
2007	789	657	584	1,118	199	165	239	106	177	345	360	672	449
2008	1,307	1,754	916	888	326	193	272	365	199	223	164	1,280	651
2009	793	566	2,182	2,637	1,546	808	367	1,064	1,181	1,156	1,506	4,029	1,493
2010	2,368	2,615	1,331	659	603	369	252	283	182	114	237	283	764
2011	487	632	660	349	76	42	321	123	311	101	102	319	292
2012	413	674	453	311	202	514	150	454	842	313	166	422	407
2013	435	1,908	1,152	605	325	539	1,959	1,453	835	435	356	680	885
2014	892	1,048	1,135	2,839	1,740	857	500	243	216	269	213	443	863

Non-Exceedance Percentiles

03140103 - Yellow River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	257	359	359	310	76	42	56	82	41	40	102	244	209
5th %	367	405	568	323	96	85	100	105	114	99	164	262	350
10th %	412	536	613	346	165	94	140	123	154	113	167	286	396
15th %	433	622	628	392	199	156	150	154	162	143	185	312	443
20th %	473	670	726	445	242	192	214	173	175	154	217	336	528
30th %	681	777	1,030	470	322	232	253	258	211	204	240	403	598
40th %	791	982	1,132	664	384	269	312	353	235	221	335	477	621
Median	913	1,109	1,174	839	469	480	378	401	306	259	364	629	696
60th %	985	1,247	1,341	982	610	577	476	446	360	306	433	676	866
70th %	1,150	1,520	1,564	1,153	625	684	625	489	436	356	501	857	919
80th %	1,224	1,759	1,740	1,410	1,003	818	771	720	809	487	647	1,095	966
90th %	1,534	1,922	2,216	2,599	1,387	1,030	1,084	1,051	1,209	997	1,490	1,281	1,014
Maximum	2,414	2,615	4,626	3,847	3,001	2,038	2,367	3,929	3,098	4,778	1,944	4,029	1,972
Average	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761	773

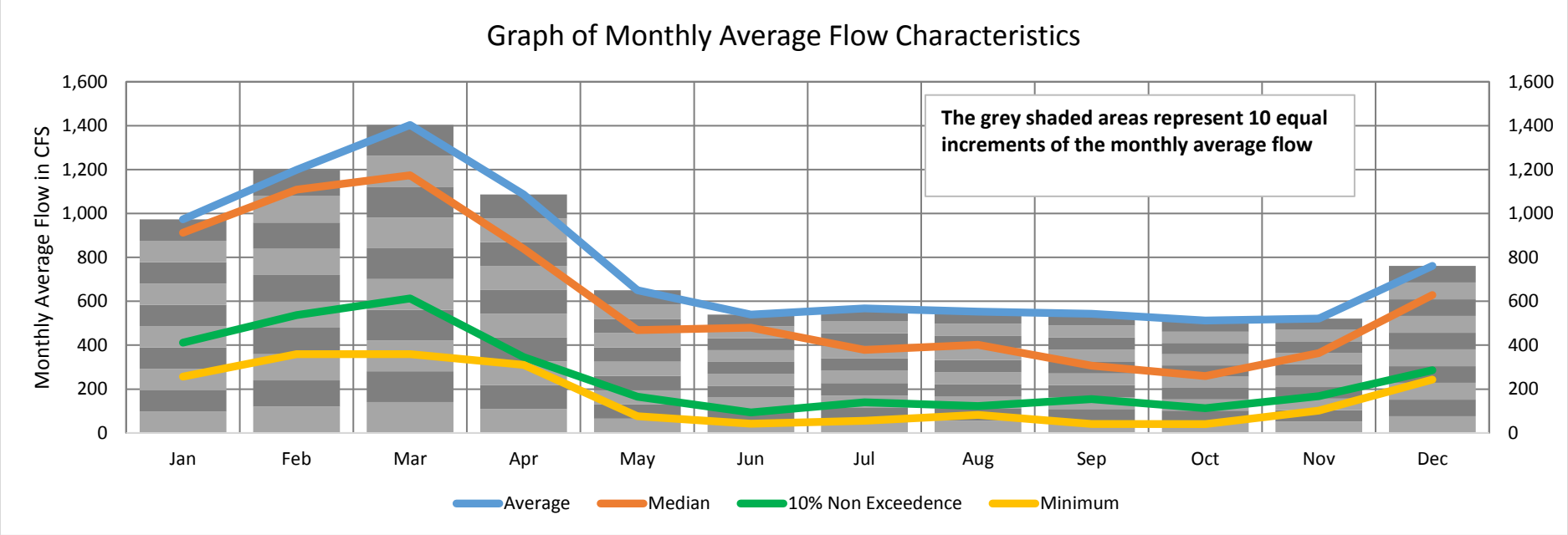
	Flows in CFS
Minimum	40.5
5th %	114
10th %	167
15th %	217
20th %	254
30th %	338
40th %	420
Median	552
60th %	706
70th %	935
80th %	1,182
90th %	1,568
Maximum	4,778
Average	776



Q10/Q50	0.30
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.09
Q5/DA	0.25
Q10/DA	0.36
Q15/DA	0.47
Q20/DA	0.55
Q30/DA	0.73
Q40/DA	0.91
Q50/DA	1.20
Q60/DA	1.53
Q70/DA	2.03
Q80/DA	2.56
Q90/DA	3.40
Qmax/DA	10.36

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

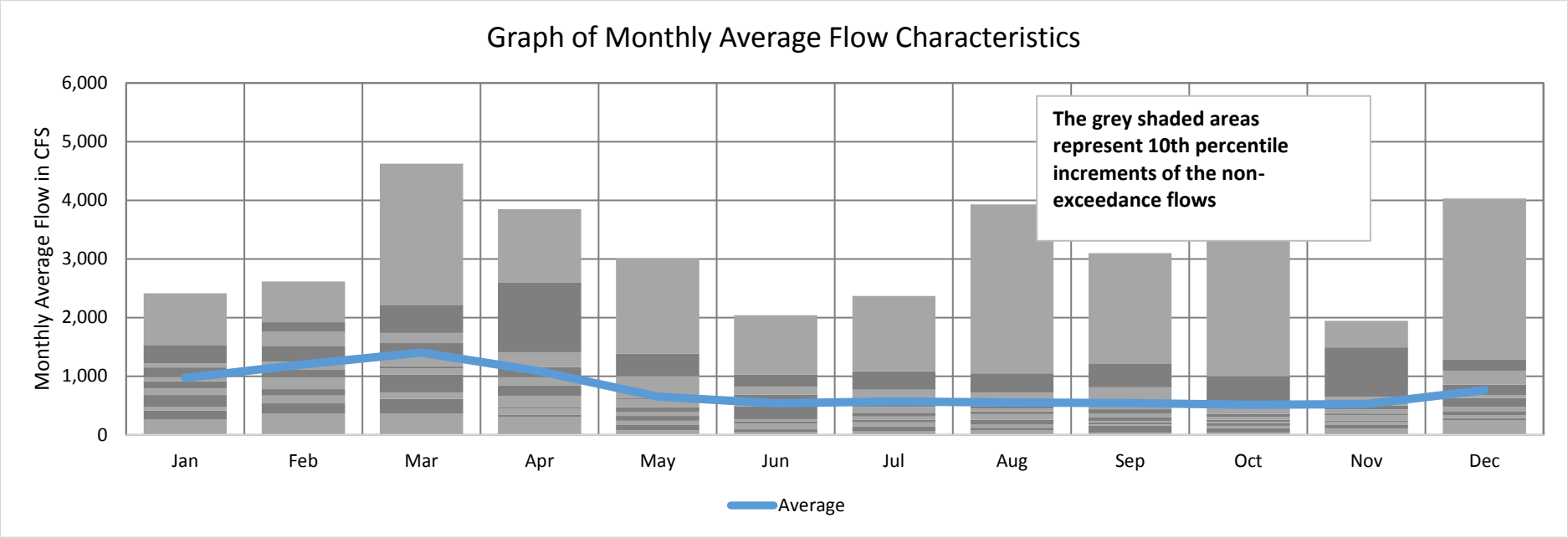
Site #: 03140103 Name: Yellow River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761
100%	2,414	2,615	4,626	3,847	3,001	2,038	2,367	3,929	3,098	4,778	1,944	4,029
98%	2,410	2,281	4,103	3,460	2,017	1,615	2,049	2,010	2,855	3,319	1,652	2,005
95%	2,370	2,062	2,872	2,865	1,577	1,251	1,939	1,454	1,712	1,243	1,509	1,368
90%	1,534	1,922	2,216	2,599	1,387	1,030	1,084	1,051	1,209	997	1,490	1,281
75%	1,187	1,749	1,660	1,269	758	765	668	626	517	407	538	1,014
50%	913	1,109	1,174	839	469	480	378	401	306	259	364	629
25%	553	709	867	452	287	218	246	220	195	192	225	381
10%	412	536	613	346	165	94	140	123	154	113	167	286
5%	367	405	568	323	96	85	100	105	114	99	164	262
2%	318	393	432	311	88	73	57	88	94	63	144	253
0%	257	359	359	310	76	42	56	82	41	40	102	244

Site #: 03140103 Name: Yellow River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 461 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761
100%	2,414	2,615	4,626	3,847	3,001	2,038	2,367	3,929	3,098	4,778	1,944	4,029
98%	2,410	2,281	4,103	3,460	2,017	1,615	2,049	2,010	2,855	3,319	1,652	2,005
95%	2,370	2,062	2,872	2,865	1,577	1,251	1,939	1,454	1,712	1,243	1,509	1,368
90%	1,534	1,922	2,216	2,599	1,387	1,030	1,084	1,051	1,209	997	1,490	1,281
75%	1,187	1,749	1,660	1,269	758	765	668	626	517	407	538	1,014
50%	913	1,109	1,174	839	469	480	378	401	306	259	364	629
25%	553	709	867	452	287	218	246	220	195	192	225	381
10%	412	536	613	346	165	94	140	123	154	113	167	286
5%	367	405	568	323	96	85	100	105	114	99	164	262
2%	318	393	432	311	88	73	57	88	94	63	144	253
0%	257	359	359	310	76	42	56	82	41	40	102	244

Monthly Flows (in CFS) for
03140104 - Blackwater River Subbasin in Alabama

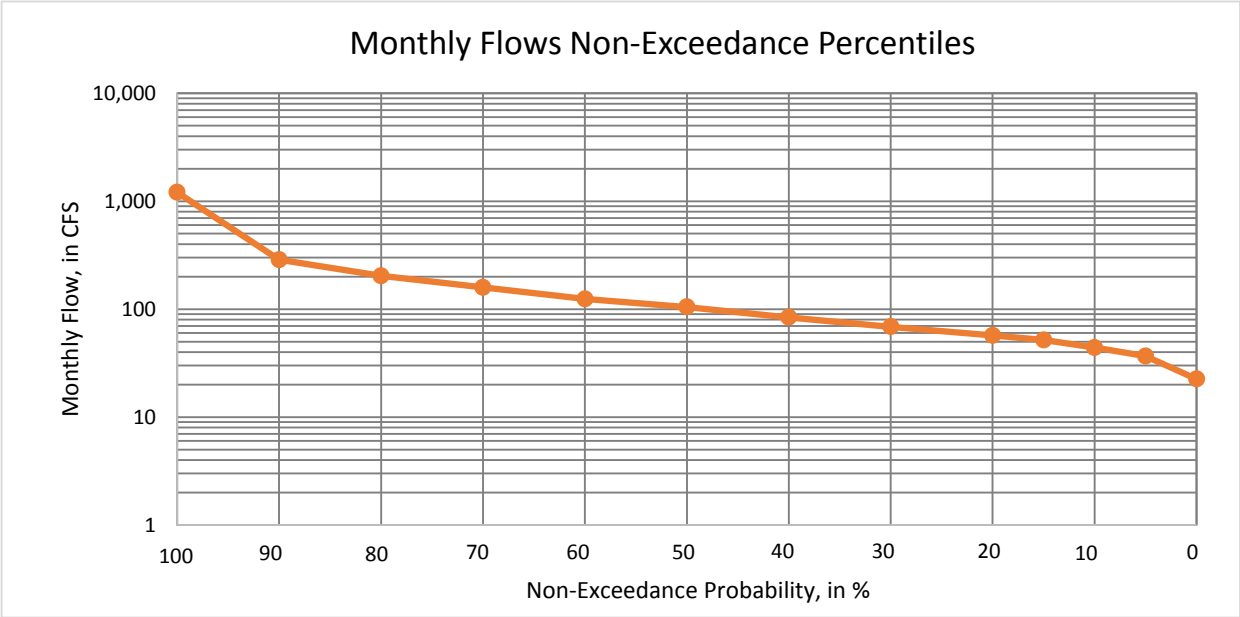
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	106	185	285	463	294	260	434	560	527	363	346	265	341
1976	263	193	174	130	244	143	80	80	90	133	138	187	155
1977	188	118	318	205	57	52	74	210	177	91	125	119	145
1978	414	220	302	128	591	372	169	134	72	56	68	92	219
1979	184	393	383	220	84	55	125	75	70	45	73	99	149
1980	141	98	565	491	250	110	69	50	46	65	84	60	170
1981	56	205	92	56	46	33	28	64	50	33	40	84	65
1982	190	397	164	115	56	44	91	83	38	36	43	99	111
1983	175	294	338	360	152	135	64	81	88	42	89	210	168
1984	203	140	242	121	79	53	90	215	58	61	80	100	120
1985	104	428	190	83	105	100	82	67	63	66	108	202	131
1986	227	171	243	60	53	40	58	59	87	62	105	130	108
1987	160	162	184	101	91	109	75	153	56	41	69	60	105
1988	141	173	162	79	38	32	51	40	288	104	75	62	103
1989	77	64	113	115	89	422	182	60	61	134	438	198	162
1990	369	329	1,207	201	230	108	60	47	43	58	46	62	231
1991	248	196	257	98	329	227	236	166	83	54	108	89	175
1992	278	282	195	101	60	107	101	111	57	45	270	221	151
1993	177	175	201	187	87	61	166	53	120	81	67	83	121
1994	171	157	183	153	93	379	571	121	93	181	84	113	192
1995	182	420	284	234	243	106	114	195	52	516	235	159	228
1996	201	241	363	382	144	133	83	88	69	53	58	93	158
1997	142	238	132	113	100	122	111	79	36	45	123	183	118
1998	326	257	691	159	64	43	56	64	675	235	140	109	235
1999	182	87	121	90	96	120	147	65	42	50	40	63	92
2000	82	65	52	40	25	27	26	36	44	23	72	87	48
2001	85	58	255	105	53	115	41	110	55	38	32	38	82
2002	47	67	72	57	24	29	38	35	95	83	114	130	66
2003	116	156	281	159	74	125	322	337	113	74	77	125	164
2004	112	287	101	77	94	143	122	65	227	113	253	209	149
2005	163	138	216	516	153	123	129	268	113	63	102	153	178
2006	212	154	121	55	74	37	52	57	38	60	83	49	82
2007	124	101	78	255	36	30	48	37	48	71	78	144	87
2008	198	356	132	134	52	38	44	142	49	53	40	138	113
2009	153	105	399	366	226	131	66	193	158	190	227	580	234
2010	437	400	235	114	109	76	72	67	46	36	68	61	142
2011	135	109	111	52	28	28	77	33	76	28	34	59	64
2012	86	143	76	51	51	132	47	98	120	73	41	78	82
2013	83	309	130	101	53	82	241	193	176	79	62	103	133
2014	113	153	198	401	262	118	63	52	66	85	57	109	139

Non-Exceedance Percentiles

03140104 - Blackwater River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	47	58	52	40	24	27	26	33	36	23	32	38	48
5th %	76	65	76	52	28	29	37	35	38	32	39	59	65
10th %	83	85	90	56	38	32	44	40	43	36	40	60	81
15th %	86	101	109	59	50	36	48	50	46	40	42	62	82
20th %	106	108	119	79	53	39	52	53	48	44	55	62	91
30th %	122	142	132	100	57	53	62	63	54	52	68	86	110
40th %	141	156	179	109	74	79	71	66	59	57	73	96	121
Median	167	174	197	118	88	107	78	80	69	63	79	106	141
60th %	182	199	237	141	95	116	90	92	84	72	86	121	150
70th %	193	246	264	191	119	123	117	125	94	81	108	140	163
80th %	215	297	305	239	226	133	151	172	120	105	127	184	175
90th %	282	394	385	384	251	230	237	210	182	181	237	209	228
Maximum	437	428	1,207	516	591	422	571	560	675	516	438	580	341
Average	176	206	246	173	125	115	118	116	112	93	110	130	143

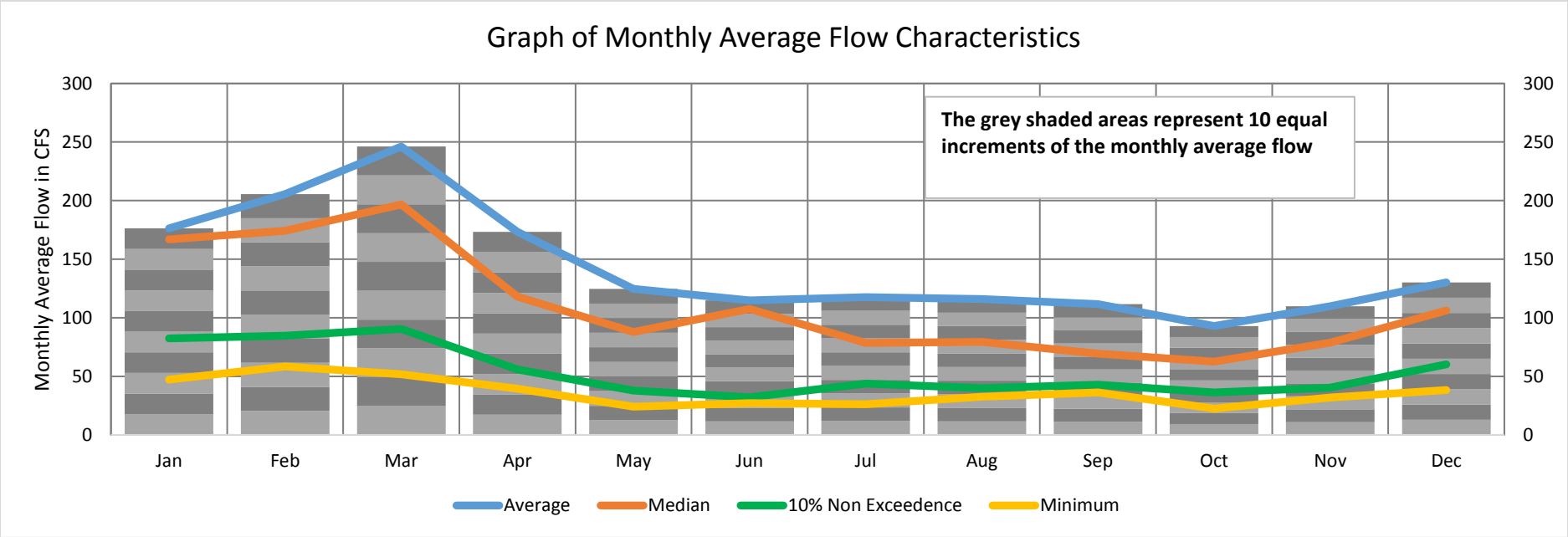
	Flows in CFS
Minimum	22.5
5th %	37
10th %	44
15th %	52
20th %	57
30th %	69
40th %	84
Median	105
60th %	124
70th %	159
80th %	204
90th %	287
Maximum	1,207
Average	143



Q10/Q50	0.42
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.26
Q5/DA	0.42
Q10/DA	0.50
Q15/DA	0.59
Q20/DA	0.65
Q30/DA	0.78
Q40/DA	0.96
Q50/DA	1.19
Q60/DA	1.42
Q70/DA	1.81
Q80/DA	2.32
Q90/DA	3.27
Qmax/DA	13.76

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

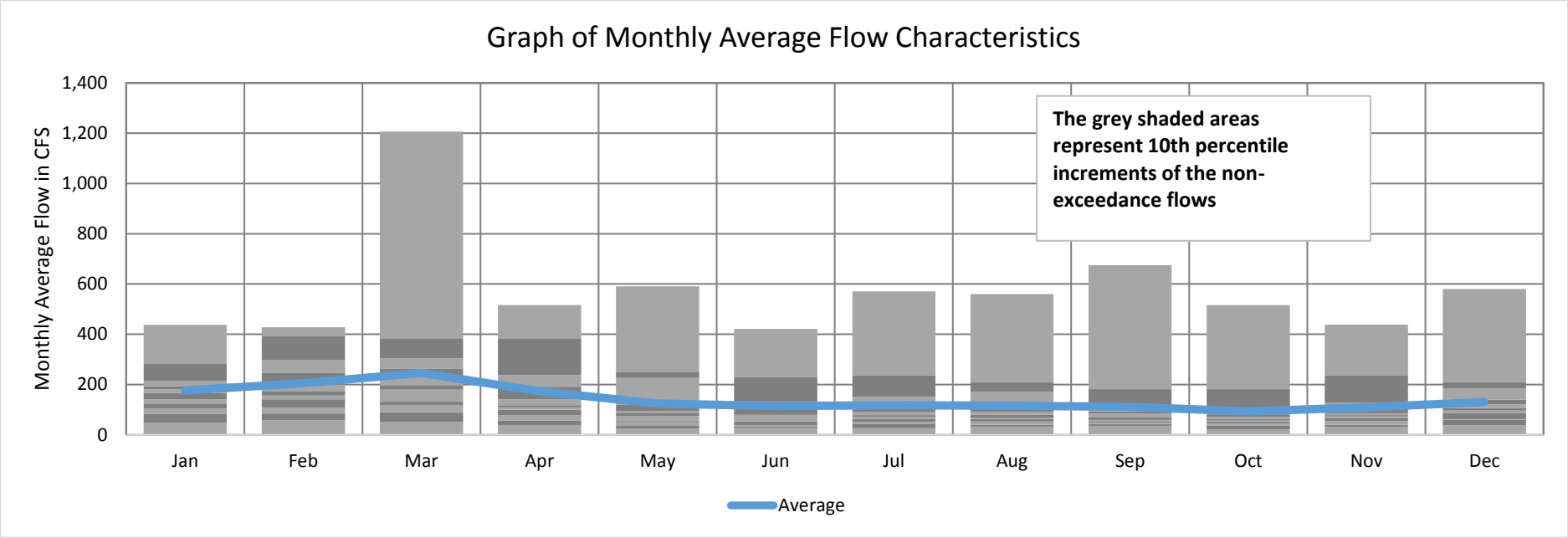
Site #: 03140104 Name: Blackwater River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	176	206	246	173	125	115	118	116	112	93	110	130
100%	437	428	1,207	516	591	422	571	560	675	516	438	580
98%	419	422	804	497	387	388	464	386	560	397	366	334
95%	371	401	571	465	295	372	328	271	300	241	274	223
90%	282	394	385	384	251	230	237	210	182	181	237	209
75%	202	283	284	209	152	131	126	145	113	87	116	154
50%	167	174	197	118	88	107	78	80	69	63	79	106
25%	112	133	128	88	53	43	57	59	49	45	61	82
10%	83	85	90	56	38	32	44	40	43	36	40	60
5%	76	65	76	52	28	29	37	35	38	32	39	59
2%	54	63	67	48	25	28	28	34	38	27	33	47
0%	47	58	52	40	24	27	26	33	36	23	32	38

Site #: 03140104 Name: Blackwater River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 88 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	176	206	246	173	125	115	118	116	112	93	110	130
100%	437	428	1,207	516	591	422	571	560	675	516	438	580
98%	419	422	804	497	387	388	464	386	560	397	366	334
95%	371	401	571	465	295	372	328	271	300	241	274	223
90%	282	394	385	384	251	230	237	210	182	181	237	209
75%	202	283	284	209	152	131	126	145	113	87	116	154
50%	167	174	197	118	88	107	78	80	69	63	79	106
25%	112	133	128	88	53	43	57	59	49	45	61	82
10%	83	85	90	56	38	32	44	40	43	36	40	60
5%	76	65	76	52	28	29	37	35	38	32	39	59
2%	54	63	67	48	25	28	28	34	38	27	33	47
0%	47	58	52	40	24	27	26	33	36	23	32	38

Monthly Flows (in CFS) for
03140106 - Perdido River Subbasin

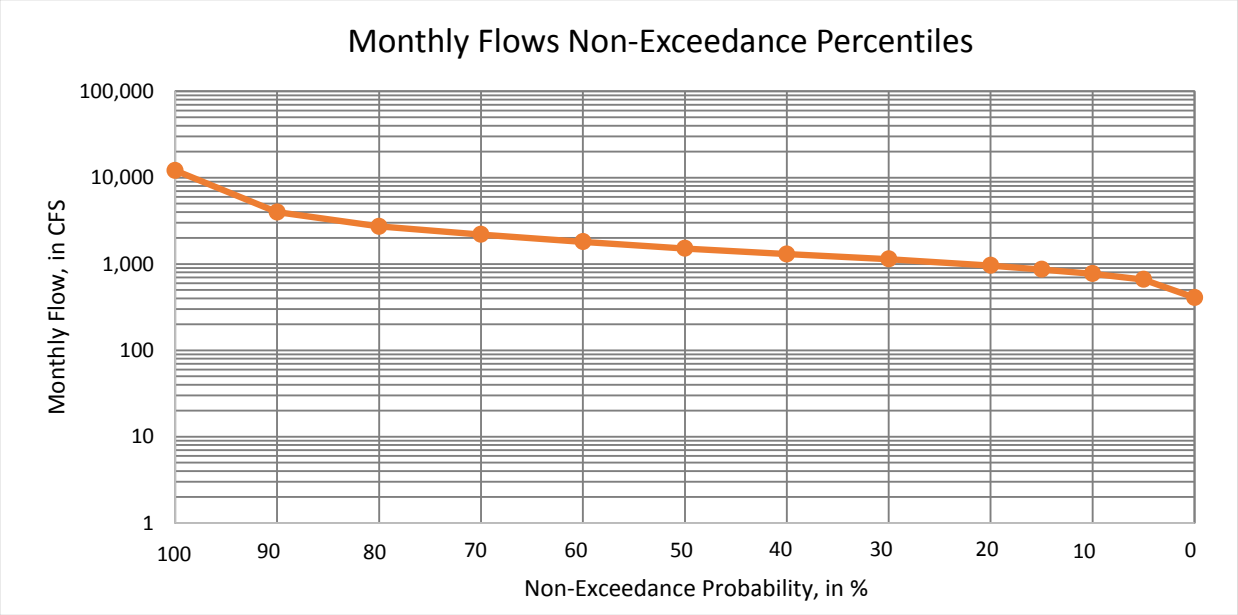
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,393	1,873	3,338	3,704	4,658	1,661	3,230	4,513	3,198	2,329	1,773	1,916	2,809
1976	3,721	2,547	3,218	1,906	4,431	1,625	1,409	1,268	1,285	1,361	1,231	1,508	2,129
1977	1,611	2,256	2,036	1,499	895	738	1,070	2,643	1,705	881	989	1,213	1,457
1978	3,179	2,571	2,198	2,433	4,245	2,927	1,481	2,582	1,798	962	1,142	1,402	2,242
1979	2,025	3,523	4,082	2,396	1,482	864	1,910	1,820	2,388	1,196	2,422	1,900	2,158
1980	2,574	1,762	5,797	8,634	4,578	2,663	1,523	1,291	1,155	1,463	1,871	1,277	2,884
1981	1,069	4,699	1,435	1,232	1,589	1,140	891	1,007	1,175	645	695	1,032	1,360
1982	1,889	3,203	1,826	1,021	775	758	1,343	1,247	904	770	857	1,528	1,333
1983	2,726	4,891	5,780	8,707	1,966	1,903	1,514	985	1,200	938	1,422	3,492	2,941
1984	2,704	2,098	3,154	2,236	1,709	855	967	4,261	789	751	938	964	1,789
1985	1,312	4,032	2,296	1,009	812	1,503	2,499	1,461	1,809	2,377	3,338	2,712	2,083
1986	3,093	2,134	1,984	972	1,293	997	869	1,036	1,009	1,176	1,624	2,550	1,561
1987	2,299	3,061	3,170	1,527	1,521	1,639	1,359	1,598	791	628	1,291	1,351	1,679
1988	2,212	2,505	2,337	1,706	647	596	1,262	3,005	4,826	1,669	1,153	994	1,903
1989	941	903	1,280	1,173	1,612	7,462	3,038	954	761	1,234	5,284	2,208	2,233
1990	5,387	5,830	6,541	1,854	2,303	1,672	1,326	851	752	715	692	885	2,385
1991	3,944	2,797	2,670	1,970	5,270	2,651	2,671	1,645	1,224	816	1,427	1,242	2,363
1992	4,676	3,573	2,046	1,124	719	1,052	1,422	1,880	1,136	905	3,405	3,042	2,074
1993	3,427	2,404	3,372	2,835	1,616	1,013	1,782	1,003	1,112	1,068	1,358	1,298	1,856
1994	1,932	1,594	2,141	2,311	1,041	1,553	4,223	1,643	953	1,336	1,129	1,419	1,778
1995	1,781	1,731	3,109	3,340	4,414	1,465	1,397	4,166	1,126	6,289	4,034	3,173	3,018
1996	2,952	3,790	4,000	5,792	2,356	1,639	1,902	2,428	2,935	1,387	1,269	1,646	2,663
1997	2,114	2,572	1,801	1,906	1,941	2,746	7,020	1,883	939	997	2,864	2,732	2,462
1998	7,411	3,834	5,907	2,151	1,261	1,073	1,567	1,602	12,103	3,158	2,329	1,598	3,657
1999	2,260	1,370	2,178	1,031	821	2,526	1,931	1,079	778	1,371	718	1,072	1,430
2000	915	824	927	728	494	660	471	483	613	408	1,327	1,223	755
2001	1,341	1,094	3,754	833	502	1,103	1,213	2,195	989	774	576	770	1,268
2002	1,111	988	1,085	846	506	518	843	708	3,718	2,579	2,176	1,892	1,413
2003	1,711	1,752	3,093	1,413	4,550	4,536	6,754	3,051	1,844	1,182	1,247	1,749	2,754
2004	2,395	4,175	1,318	785	1,125	2,434	1,504	1,314	4,594	1,218	3,084	3,332	2,253
2005	1,672	2,105	1,813	7,577	2,479	3,985	4,799	4,415	2,395	1,267	1,250	1,706	2,953
2006	1,884	1,822	1,237	1,017	1,145	765	644	964	1,220	1,097	1,899	1,044	1,223
2007	2,162	1,432	864	1,138	540	746	750	573	766	1,300	1,032	1,616	1,075
2008	2,613	2,678	1,781	3,255	1,289	690	938	1,735	1,752	799	718	1,496	1,637
2009	1,227	1,146	4,956	4,228	2,512	1,144	875	1,317	1,839	1,440	1,997	6,661	2,457
2010	5,868	4,703	2,890	1,190	2,307	1,250	911	1,190	777	593	1,379	1,068	1,998
2011	1,515	1,412	1,482	769	500	565	1,438	653	1,815	489	528	750	990
2012	807	2,103	1,025	644	803	2,156	838	1,318	1,440	779	524	932	1,105
2013	928	2,927	1,306	1,205	1,753	1,166	1,509	1,398	1,124	708	741	1,808	1,372
2014	1,685	2,050	2,696	5,422	5,389	2,297	2,033	970	1,017	869	680	1,289	2,199

Non-Exceedance Percentiles

03140106 - Perdido River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	807	824	864	644	494	518	471	483	613	408	524	750	755
5th %	928	983	1,020	767	502	594	745	649	761	588	574	879	1,071
10th %	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961	1,211
15th %	1,210	1,406	1,302	953	708	745	874	963	787	714	714	1,027	1,323
20th %	1,335	1,562	1,412	1,015	798	764	907	982	881	766	736	1,064	1,370
30th %	1,654	1,804	1,809	1,134	997	1,008	1,170	1,066	1,003	811	1,019	1,237	1,530
40th %	1,843	2,101	2,042	1,221	1,277	1,125	1,353	1,282	1,125	925	1,200	1,330	1,785
Median	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502	2,036
60th %	2,276	2,572	2,773	1,932	1,727	1,630	1,511	1,619	1,347	1,205	1,396	1,628	2,174
70th %	2,640	2,967	3,159	2,336	2,304	1,741	1,818	1,838	1,801	1,311	1,803	1,833	2,286
80th %	3,111	3,616	3,448	3,272	2,859	2,452	2,126	2,459	1,953	1,397	2,207	2,277	2,503
90th %	4,017	4,227	5,038	5,459	4,552	2,764	3,329	3,162	3,250	2,334	3,109	3,055	2,890
Maximum	7,411	5,830	6,541	8,707	5,389	7,462	7,020	4,513	12,103	6,289	5,284	6,661	3,657
Average	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787	1,992

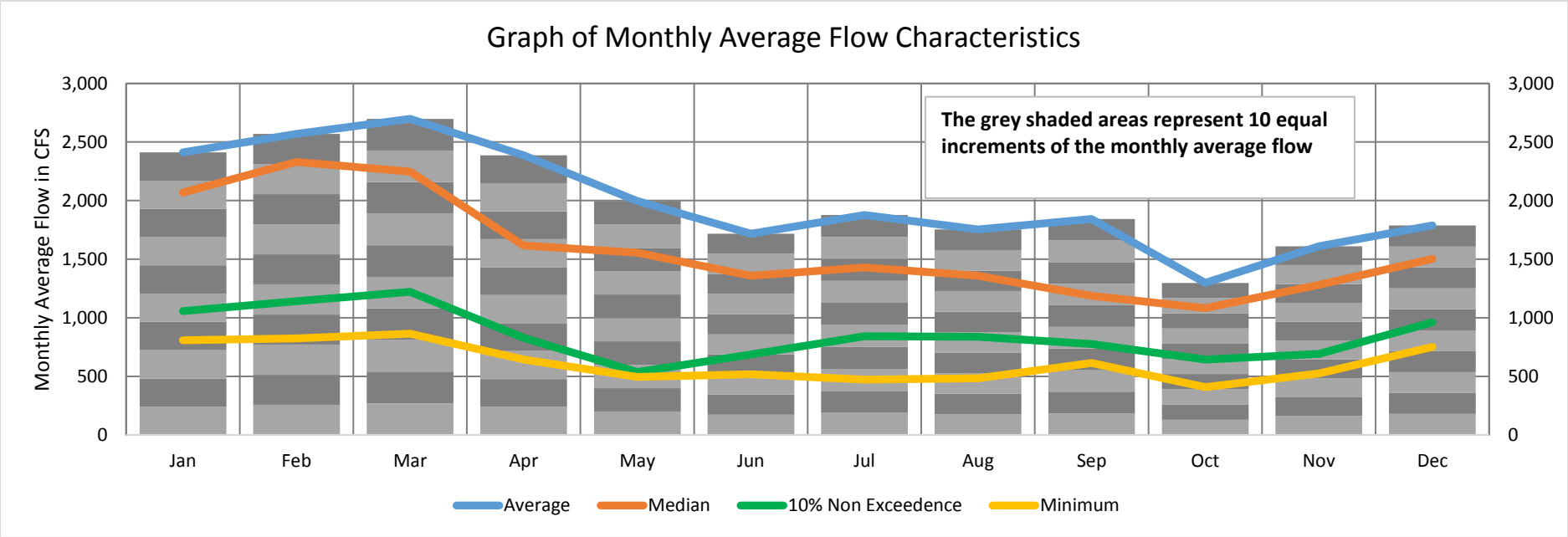
	Flows in CFS
Minimum	407.7
5th %	660
10th %	769
15th %	863
20th %	961
30th %	1,137
40th %	1,299
Median	1,512
60th %	1,808
70th %	2,196
80th %	2,715
90th %	3,987
Maximum	12,103
Average	1,996



Q10/Q50	0.51
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.44
Q5/DA	0.72
Q10/DA	0.84
Q15/DA	0.94
Q20/DA	1.04
Q30/DA	1.24
Q40/DA	1.41
Q50/DA	1.64
Q60/DA	1.97
Q70/DA	2.39
Q80/DA	2.95
Q90/DA	4.33
Qmax/DA	13.16

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

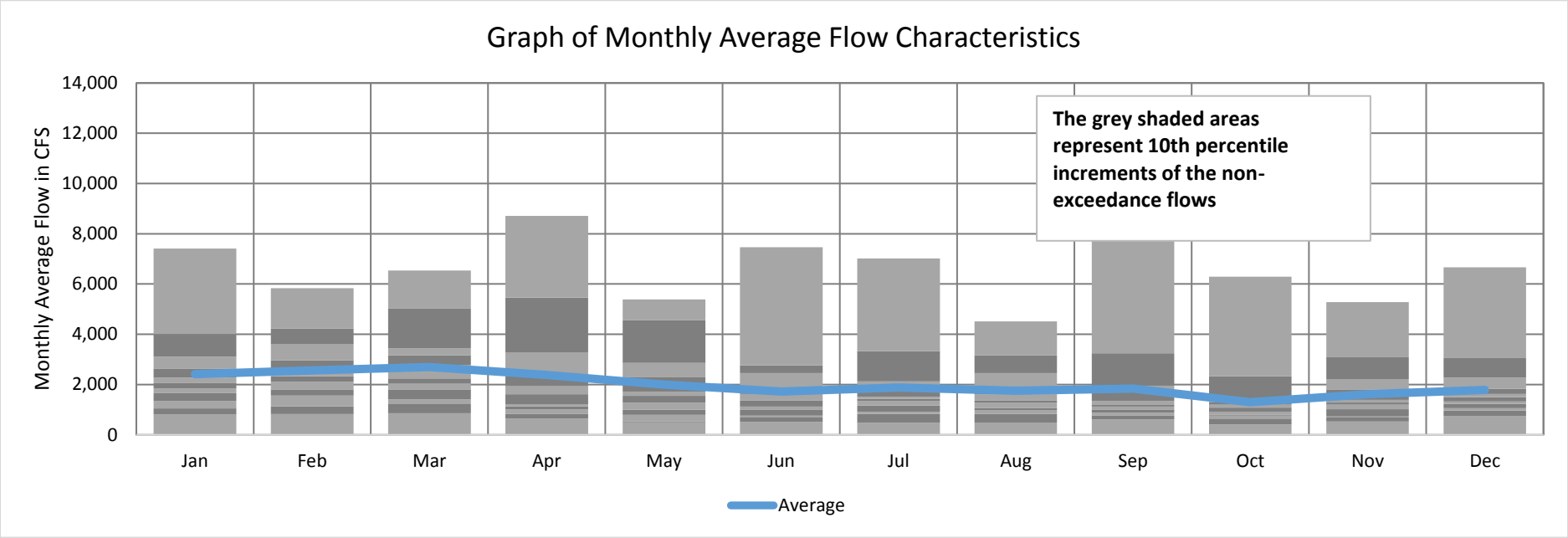
Site #: 03140106 Name: Perdido River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787
100%	7,411	5,830	6,541	8,707	5,389	7,462	7,020	4,513	12,103	6,289	5,284	6,661
98%	6,208	5,097	6,047	8,650	5,296	5,180	6,812	4,437	6,427	3,847	4,309	4,189
95%	5,411	4,712	5,803	7,630	4,689	4,013	4,897	4,269	4,606	2,608	3,436	3,340
90%	4,017	4,227	5,038	5,459	4,552	2,764	3,329	3,162	3,250	2,334	3,109	3,055
75%	2,782	3,283	3,248	2,533	2,387	2,191	1,916	1,961	1,821	1,363	1,923	1,904
50%	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502
25%	1,485	1,747	1,706	1,028	818	861	960	1,006	949	778	918	1,178
10%	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961
5%	928	983	1,020	767	502	594	745	649	761	588	574	879
2%	891	885	913	709	499	555	606	553	721	471	527	766
0%	807	824	864	644	494	518	471	483	613	408	524	750

Site #: 03140106 Name: Perdido River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 920 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787
100%	7,411	5,830	6,541	8,707	5,389	7,462	7,020	4,513	12,103	6,289	5,284	6,661
98%	6,208	5,097	6,047	8,650	5,296	5,180	6,812	4,437	6,427	3,847	4,309	4,189
95%	5,411	4,712	5,803	7,630	4,689	4,013	4,897	4,269	4,606	2,608	3,436	3,340
90%	4,017	4,227	5,038	5,459	4,552	2,764	3,329	3,162	3,250	2,334	3,109	3,055
75%	2,782	3,283	3,248	2,533	2,387	2,191	1,916	1,961	1,821	1,363	1,923	1,904
50%	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502
25%	1,485	1,747	1,706	1,028	818	861	960	1,006	949	778	918	1,178
10%	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961
5%	928	983	1,020	767	502	594	745	649	761	588	574	879
2%	891	885	913	709	499	555	606	553	721	471	527	766
0%	807	824	864	644	494	518	471	483	613	408	524	750

Monthly Flows (in CFS) for
03140201 - Upper Choctawhatchee River Subbasin

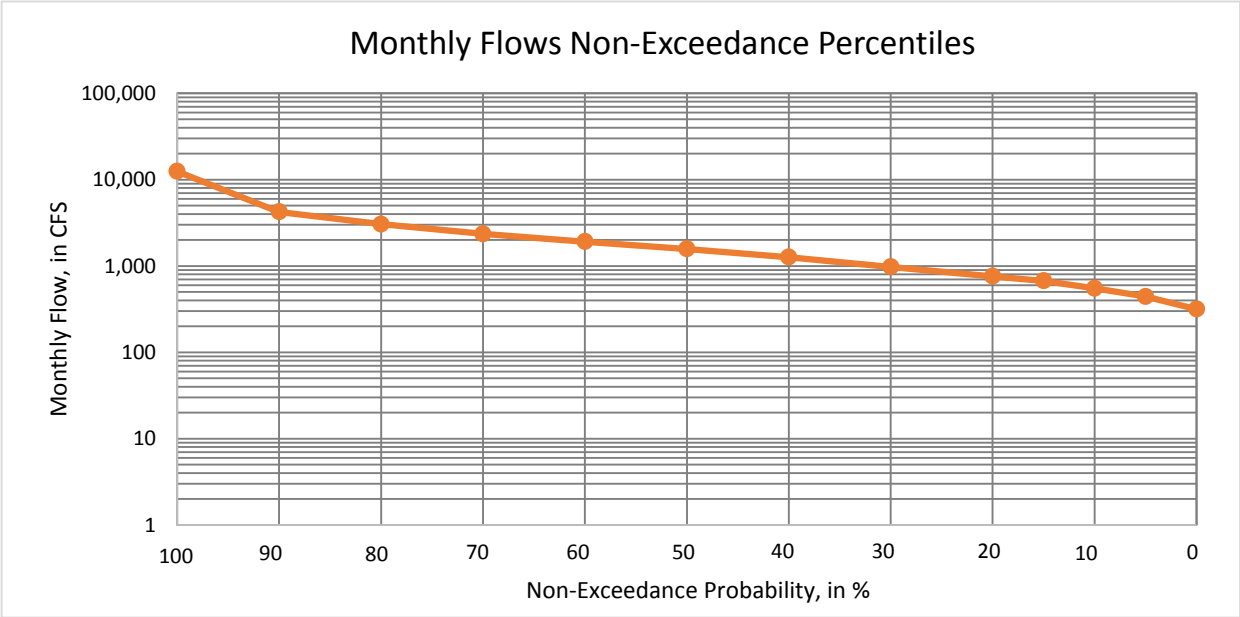
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,291	4,945	4,936	7,587	2,258	3,111	3,015	4,008	1,828	3,786	2,265	2,605	3,625
1976	3,812	2,769	3,044	3,066	3,305	2,018	1,326	1,167	1,537	2,628	3,955	4,570	2,768
1977	4,986	2,655	6,007	2,300	965	767	864	1,586	1,760	1,021	2,822	2,537	2,358
1978	7,445	3,774	5,120	3,017	3,374	2,636	1,302	1,745	617	592	807	1,333	2,647
1979	2,946	5,578	4,032	4,234	1,917	1,286	1,969	956	1,401	1,139	1,535	1,815	2,378
1980	2,274	1,896	6,306	4,919	2,707	1,734	1,078	790	543	744	791	870	2,056
1981	916	3,832	2,643	2,007	767	675	471	727	647	560	629	1,568	1,269
1982	3,480	5,675	3,344	2,876	1,054	824	1,642	1,654	888	673	1,113	2,775	2,146
1983	3,188	4,100	5,392	4,712	2,557	2,152	1,560	981	1,339	726	1,428	3,003	2,585
1984	3,378	2,907	4,534	3,321	3,042	1,066	1,362	1,686	535	499	761	1,094	2,014
1985	1,215	4,827	2,260	1,336	1,258	671	1,015	863	545	897	1,308	2,822	1,565
1986	2,512	2,701	3,040	1,326	656	480	423	496	681	477	862	1,435	1,250
1987	2,611	2,894	3,614	2,075	1,572	2,048	894	529	551	336	699	884	1,550
1988	2,057	2,537	3,975	1,790	659	384	1,440	375	1,148	637	730	743	1,367
1989	932	1,267	1,831	2,169	1,469	2,397	2,863	918	638	1,851	3,514	3,677	1,964
1990	6,402	4,211	10,558	2,783	2,147	1,435	939	480	414	411	524	975	2,608
1991	2,907	3,776	4,744	2,264	2,808	1,874	1,818	1,386	751	600	1,107	1,212	2,097
1992	3,786	4,440	4,825	2,030	947	1,451	1,130	1,205	786	1,105	4,384	3,129	2,421
1993	3,052	3,001	4,636	3,368	1,526	767	853	549	770	701	1,736	1,907	1,899
1994	2,101	3,160	3,713	2,616	1,713	1,806	12,445	2,088	1,213	1,852	1,504	1,846	3,017
1995	1,874	4,932	3,392	2,227	1,240	939	864	935	440	1,816	2,309	2,829	1,964
1996	3,448	4,197	4,911	4,423	1,957	1,309	1,069	1,493	2,750	1,816	1,469	3,040	2,646
1997	4,820	5,044	2,634	1,959	1,785	1,717	1,909	935	514	1,181	2,321	4,263	2,411
1998	4,721	5,560	8,596	4,236	1,449	743	1,267	855	2,152	3,344	1,347	1,585	2,976
1999	2,478	1,832	2,223	1,006	2,137	1,914	1,941	827	511	971	876	1,127	1,489
2000	1,577	1,538	1,544	884	361	333	320	444	685	362	825	1,859	891
2001	2,138	1,413	6,898	3,414	753	1,800	1,144	844	711	529	692	950	1,778
2002	1,068	1,402	1,763	1,719	693	612	673	478	522	599	1,102	1,924	1,044
2003	1,452	1,872	3,350	4,226	1,653	2,831	4,197	3,370	1,946	1,134	1,437	1,720	2,435
2004	1,937	3,552	1,748	1,304	1,613	1,530	1,055	688	1,449	1,031	1,585	1,949	1,606
2005	2,135	2,372	4,925	5,704	1,924	2,233	2,851	2,632	1,210	786	1,271	2,011	2,504
2006	2,626	2,678	2,530	1,164	1,217	411	363	480	499	631	1,066	1,171	1,230
2007	1,718	1,865	1,863	3,420	565	345	563	352	383	433	672	1,578	1,140
2008	2,730	4,403	2,240	2,325	611	442	598	2,012	679	772	1,182	4,821	1,889
2009	2,339	1,428	4,276	5,451	3,058	1,317	1,544	1,392	1,526	1,606	2,283	9,664	3,007
2010	5,959	5,617	3,261	1,699	1,964	1,151	818	678	504	491	737	1,040	1,974
2011	1,444	2,072	1,833	991	388	316	794	350	331	326	405	781	829
2012	910	1,255	952	729	563	599	425	1,438	908	573	467	1,033	819
2013	1,025	5,050	2,539	1,939	1,195	931	6,774	3,594	1,764	1,038	1,077	2,896	2,476
2014	2,818	3,952	2,962	7,715	3,999	1,591	919	670	728	1,241	1,043	2,085	2,461

Non-Exceedance Percentiles

03140201 - Upper Choctawhatchee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	910	1,255	952	729	361	316	320	350	331	326	405	743	819
5th %	931	1,395	1,738	986	554	344	420	374	413	360	521	865	888
10th %	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943	1,130
15th %	1,410	1,788	1,859	1,323	659	475	592	480	510	489	698	1,024	1,247
20th %	1,552	1,871	2,236	1,626	741	609	770	522	521	523	735	1,083	1,348
30th %	2,021	2,487	2,606	1,953	1,027	760	864	685	550	597	819	1,296	1,594
40th %	2,220	2,742	3,042	2,131	1,251	936	984	837	666	658	1,057	1,582	1,938
Median	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852	2,035
60th %	2,854	3,798	3,998	2,932	1,742	1,482	1,312	1,055	827	991	1,324	1,974	2,366
70th %	3,219	4,201	4,669	3,382	1,959	1,754	1,549	1,406	1,211	1,114	1,479	2,656	2,443
80th %	3,541	4,848	4,927	4,234	2,318	1,934	1,916	1,660	1,465	1,314	1,842	2,918	2,589
90th %	4,836	5,101	6,037	4,972	3,043	2,249	2,879	2,142	1,770	1,851	2,371	3,736	2,789
Maximum	7,445	5,675	10,558	7,715	3,999	3,111	12,445	4,008	2,750	3,786	4,384	9,664	3,625
Average	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228	2,029

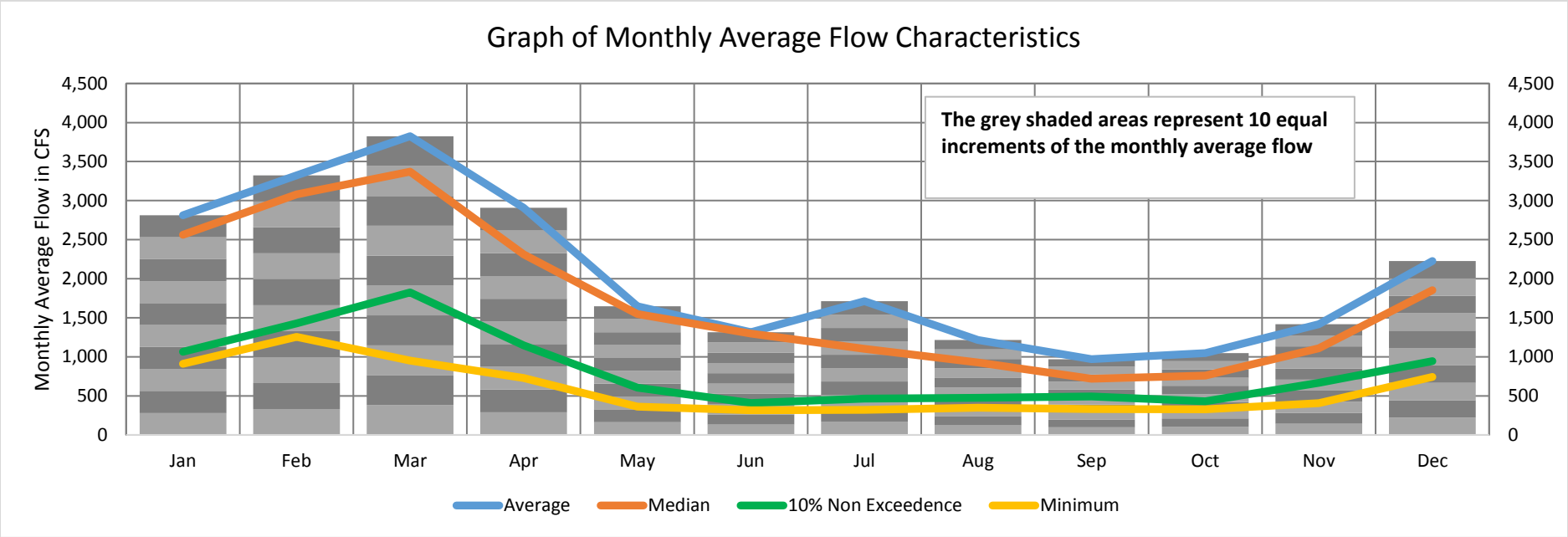
	Flows in CFS
Minimum	315.6
5th %	442
10th %	551
15th %	673
20th %	760
30th %	973
40th %	1,263
Median	1,574
60th %	1,908
70th %	2,349
80th %	3,040
90th %	4,227
Maximum	12,445
Average	2,035



Q10/Q50	0.35
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.20
Q5/DA	0.28
Q10/DA	0.35
Q15/DA	0.43
Q20/DA	0.49
Q30/DA	0.62
Q40/DA	0.81
Q50/DA	1.01
Q60/DA	1.22
Q70/DA	1.51
Q80/DA	1.95
Q90/DA	2.71
Qmax/DA	7.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

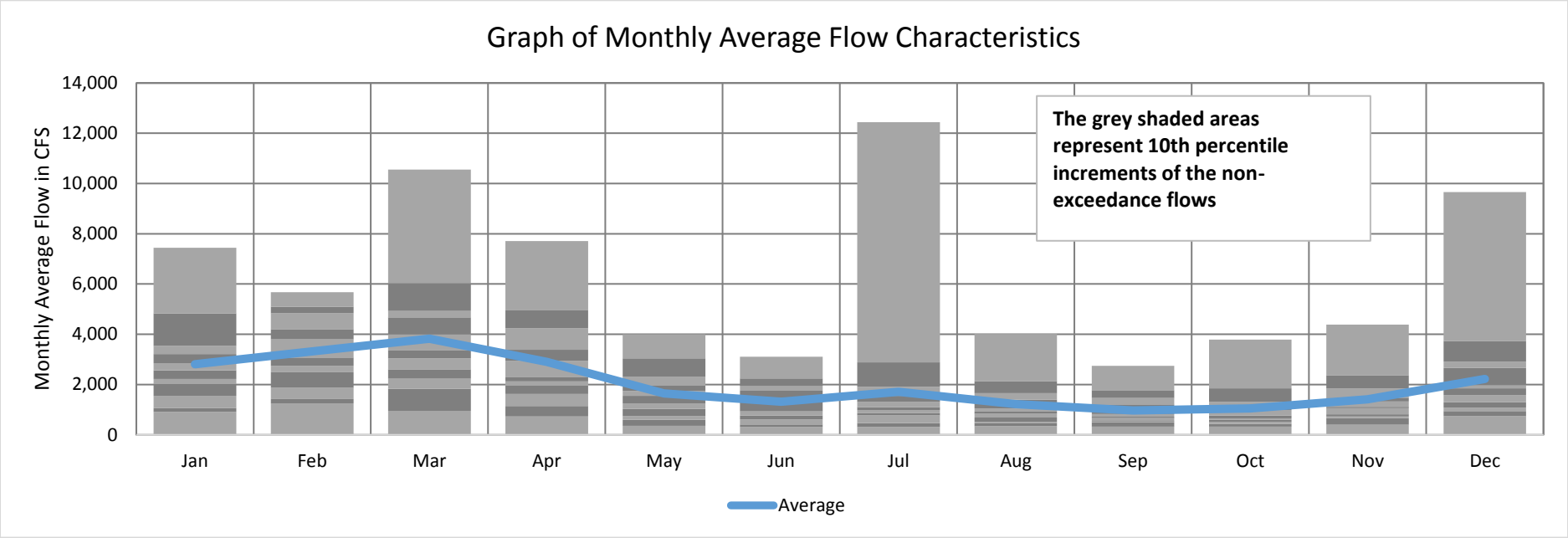
Site #: 03140201 Name: Upper Choctawhatchee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228
100%	7,445	5,675	10,558	7,715	3,999	3,111	12,445	4,008	2,750	3,786	4,384	9,664
98%	6,631	5,630	9,028	7,615	3,511	2,892	8,022	3,685	2,284	3,441	4,050	5,887
95%	5,981	5,580	6,983	5,798	3,309	2,646	4,326	3,381	1,956	2,664	3,536	4,582
90%	4,836	5,101	6,037	4,972	3,043	2,249	2,879	2,142	1,770	1,851	2,371	3,736
75%	3,395	4,413	4,847	3,621	2,139	1,823	1,686	1,516	1,355	1,150	1,548	2,824
50%	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852
25%	1,835	2,028	2,463	1,772	902	674	844	640	541	570	783	1,160
10%	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943
5%	931	1,395	1,738	986	554	344	420	374	413	360	521	865
2%	915	1,264	1,414	850	382	329	353	352	372	334	453	773
0%	910	1,255	952	729	361	316	320	350	331	326	405	743

Site #: 03140201 Name: Upper Choctawhatchee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,560 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228
100%	7,445	5,675	10,558	7,715	3,999	3,111	12,445	4,008	2,750	3,786	4,384	9,664
98%	6,631	5,630	9,028	7,615	3,511	2,892	8,022	3,685	2,284	3,441	4,050	5,887
95%	5,981	5,580	6,983	5,798	3,309	2,646	4,326	3,381	1,956	2,664	3,536	4,582
90%	4,836	5,101	6,037	4,972	3,043	2,249	2,879	2,142	1,770	1,851	2,371	3,736
75%	3,395	4,413	4,847	3,621	2,139	1,823	1,686	1,516	1,355	1,150	1,548	2,824
50%	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852
25%	1,835	2,028	2,463	1,772	902	674	844	640	541	570	783	1,160
10%	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943
5%	931	1,395	1,738	986	554	344	420	374	413	360	521	865
2%	915	1,264	1,414	850	382	329	353	352	372	334	453	773
0%	910	1,255	952	729	361	316	320	350	331	326	405	743

Monthly Flows (in CFS) for
03140202 - Pea River Subbasin

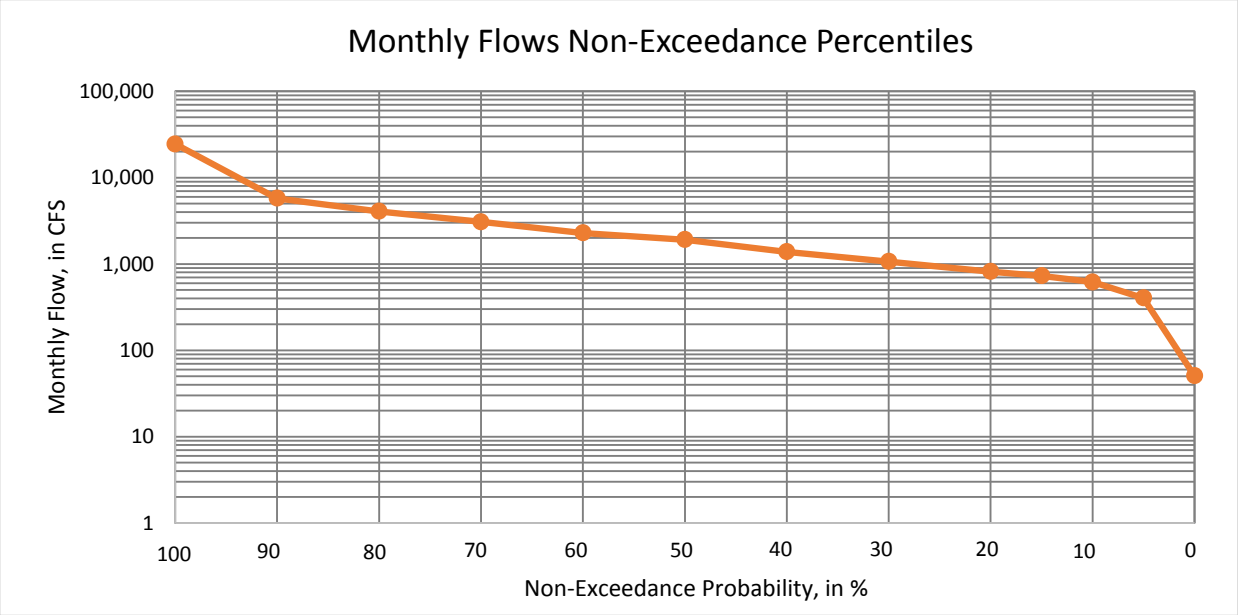
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,968	4,146	5,249	12,318	2,855	3,685	1,536	8,554	4,121	9,488	4,620	3,934	5,204
1976	3,962	4,891	3,648	4,172	6,150	4,454	1,822	1,474	1,192	1,805	840	5,964	3,359
1977	4,072	2,600	5,245	3,404	1,005	919	726	2,272	1,958	1,145	2,815	2,282	2,370
1978	7,833	7,064	7,215	4,451	8,479	3,984	1,797	2,126	811	627	801	1,638	3,891
1979	3,775	6,954	8,047	5,362	3,136	1,437	2,031	1,314	1,864	1,894	1,903	2,324	3,315
1980	2,729	2,473	11,945	10,743	4,791	2,083	1,210	919	868	745	1,406	1,179	3,428
1981	1,024	5,768	2,543	1,787	1,275	911	742	740	653	407	567	665	1,393
1982	4,126	8,406	3,871	2,100	2,013	822	1,175	1,869	940	698	747	2,933	2,441
1983	4,099	6,059	5,573	8,658	2,889	2,057	2,819	1,294	1,521	869	1,154	3,665	3,367
1984	3,937	3,062	7,569	3,077	1,285	849	846	1,933	774	538	684	1,120	2,141
1985	944	3,665	3,015	1,243	1,238	736	673	933	1,002	926	1,976	4,049	1,689
1986	4,051	5,049	4,972	1,438	885	762	637	611	685	629	769	2,033	1,861
1987	3,191	3,393	3,791	2,851	1,716	2,011	1,511	1,377	847	545	752	739	1,884
1988	2,092	3,452	4,476	2,191	850	607	1,152	1,013	3,927	2,217	1,790	1,417	2,087
1989	1,941	2,394	3,859	3,988	2,096	8,439	5,468	1,752	1,081	2,604	6,749	4,427	3,730
1990	10,631	6,842	13,088	3,958	3,867	2,003	1,273	905	564	682	757	784	3,776
1991	2,260	7,484	8,279	2,100	5,634	2,862	3,082	2,002	1,161	745	1,069	1,233	3,139
1992	4,603	8,739	5,594	2,694	1,097	3,518	1,907	1,918	1,420	1,014	4,262	6,595	3,578
1993	5,727	4,047	5,739	5,058	1,415	850	1,125	771	1,111	368	1,492	1,381	2,413
1994	1,970	4,155	4,225	4,461	1,224	4,004	24,497	4,411	2,000	3,174	1,067	2,697	4,851
1995	2,920	5,385	5,266	4,131	3,933	1,157	877	2,964	859	3,814	3,226	2,225	3,052
1996	2,204	6,023	4,267	6,565	2,295	1,536	998	648	1,091	2,202	653	1,230	2,447
1997	2,537	4,192	4,343	1,811	3,139	1,670	2,343	1,993	705	168	2,118	3,948	2,408
1998	7,004	6,720	9,964	2,962	1,725	789	596	1,328	901	6,001	1,377	802	3,340
1999	1,312	1,244	2,078	846	1,175	1,608	3,838	951	515	395	445	850	1,276
2000	1,143	1,046	1,433	816	251	193	106	115	51	177	588	776	556
2001	1,599	1,292	8,675	3,047	790	2,241	681	1,789	922	517	578	709	1,911
2002	878	1,316	2,190	2,437	228	209	307	356	403	896	2,255	2,482	1,160
2003	2,205	2,400	7,036	4,411	2,376	4,072	4,987	4,890	2,067	1,069	1,263	1,923	3,235
2004	1,897	5,481	2,332	818	2,176	3,294	2,393	917	4,019	1,841	2,838	3,513	2,602
2005	2,582	2,327	1,946	11,642	3,044	2,104	3,109	4,449	1,618	877	853	2,225	3,060
2006	3,045	2,429	2,414	1,033	1,521	439	402	606	657	610	1,649	929	1,306
2007	2,338	1,886	2,068	2,914	538	308	954	351	403	639	1,065	2,041	1,289
2008	4,018	5,400	3,300	2,794	835	665	670	1,328	1,102	714	369	3,334	2,025
2009	2,223	1,648	5,853	10,005	5,156	2,828	2,541	3,201	2,403	2,866	3,854	12,456	4,608
2010	7,941	9,926	4,889	1,879	2,394	1,185	848	730	342	364	590	752	2,612
2011	971	1,572	1,835	988	380	212	614	403	439	161	226	804	713
2012	1,440	2,193	1,733	1,357	702	1,063	550	2,510	3,333	1,077	526	1,395	1,483
2013	1,341	10,416	5,772	2,676	1,139	1,073	8,268	5,875	3,099	1,428	1,220	3,129	3,751
2014	3,977	4,365	4,070	10,783	6,869	2,124	1,494	893	703	806	616	2,096	3,220

Non-Exceedance Percentiles

03140202 - Pea River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	878	1,046	1,433	816	228	193	106	115	51	161	226	665	556
5th %	970	1,290	1,830	844	374	212	398	356	400	177	441	737	1,138
10th %	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774	1,287
15th %	1,337	1,850	2,173	1,339	828	657	634	642	557	405	587	799	1,380
20th %	1,567	2,300	2,398	1,717	878	757	673	738	656	534	611	841	1,648
30th %	1,969	2,460	3,543	2,100	1,164	850	814	914	753	628	751	1,214	1,991
40th %	2,216	3,428	3,990	2,687	1,281	1,069	980	988	864	708	824	1,408	2,393
Median	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037	2,524
60th %	3,104	4,954	5,247	3,625	2,224	2,006	1,521	1,767	1,105	961	1,308	2,248	3,091
70th %	3,966	5,567	5,637	4,244	2,866	2,110	1,944	1,951	1,450	1,230	1,691	2,768	3,322
80th %	4,078	6,744	7,072	5,119	3,285	2,948	2,597	2,320	1,967	1,955	2,145	3,543	3,458
90th %	5,855	7,577	8,318	10,079	5,204	3,986	3,953	4,415	3,123	2,897	3,289	4,087	3,787
Maximum	10,631	10,416	13,088	12,318	8,479	8,439	24,497	8,554	4,121	9,488	6,749	12,456	5,204
Average	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467	2,649

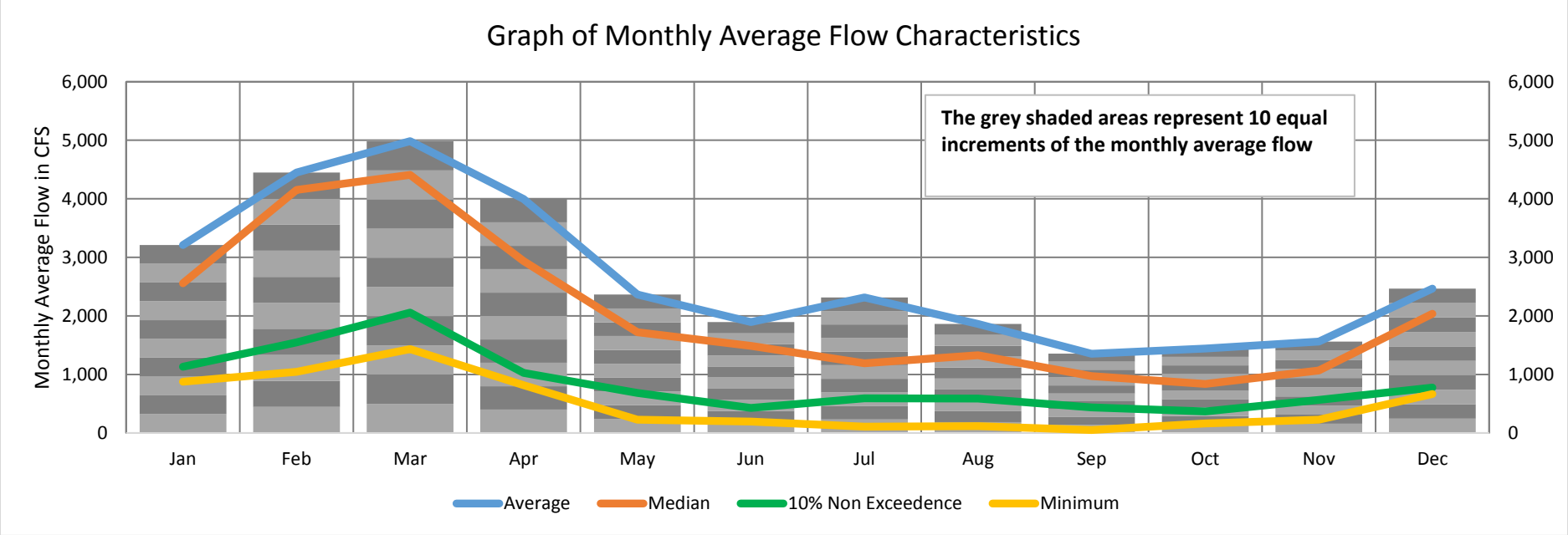
	Flows in CFS
Minimum	50.6
5th %	403
10th %	616
15th %	729
20th %	815
30th %	1,064
40th %	1,379
Median	1,913
60th %	2,287
70th %	3,066
80th %	4,055
90th %	5,742
Maximum	24,497
Average	2,659



Q10/Q50	0.32
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.03
Q5/DA	0.26
Q10/DA	0.40
Q15/DA	0.47
Q20/DA	0.53
Q30/DA	0.69
Q40/DA	0.89
Q50/DA	1.23
Q60/DA	1.47
Q70/DA	1.98
Q80/DA	2.61
Q90/DA	3.70
Qmax/DA	15.78

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

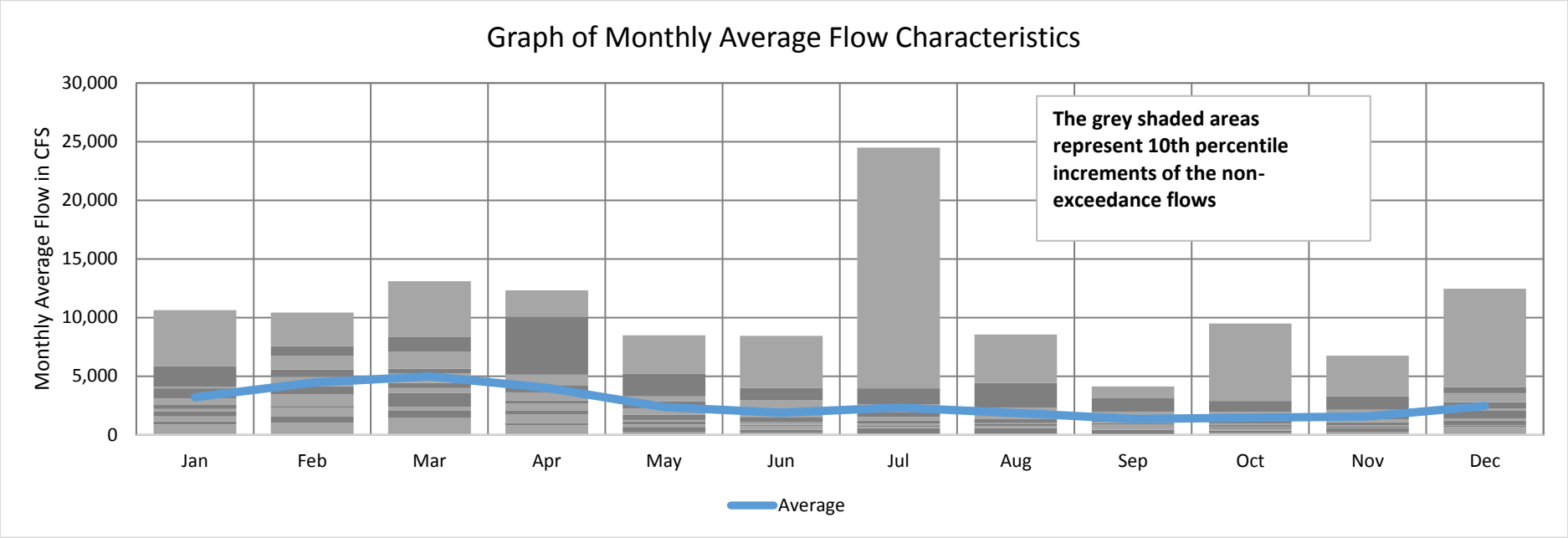
Site #: 03140202 Name: Pea River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467
100%	10,631	10,416	13,088	12,318	8,479	8,439	24,497	8,554	4,121	9,488	6,749	12,456
98%	8,533	10,034	12,196	11,790	7,223	5,330	11,838	6,465	4,042	6,768	5,088	7,885
95%	7,838	8,798	10,063	10,826	6,186	4,091	5,608	4,939	3,932	3,923	4,280	5,995
90%	5,855	7,577	8,318	10,079	5,204	3,986	3,953	4,415	3,123	2,897	3,289	4,087
75%	4,026	6,032	5,792	4,453	3,067	2,388	2,355	2,033	1,679	1,814	1,921	3,180
50%	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037
25%	1,930	2,399	2,897	1,862	1,074	813	715	863	698	594	676	1,072
10%	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774
5%	970	1,290	1,830	844	374	212	398	356	400	177	441	737
2%	929	1,200	1,667	817	246	205	263	299	278	166	338	699
0%	878	1,046	1,433	816	228	193	106	115	51	161	226	665

Site #: 03140202 Name: Pea River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,552 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467
100%	10,631	10,416	13,088	12,318	8,479	8,439	24,497	8,554	4,121	9,488	6,749	12,456
98%	8,533	10,034	12,196	11,790	7,223	5,330	11,838	6,465	4,042	6,768	5,088	7,885
95%	7,838	8,798	10,063	10,826	6,186	4,091	5,608	4,939	3,932	3,923	4,280	5,995
90%	5,855	7,577	8,318	10,079	5,204	3,986	3,953	4,415	3,123	2,897	3,289	4,087
75%	4,026	6,032	5,792	4,453	3,067	2,388	2,355	2,033	1,679	1,814	1,921	3,180
50%	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037
25%	1,930	2,399	2,897	1,862	1,074	813	715	863	698	594	676	1,072
10%	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774
5%	970	1,290	1,830	844	374	212	398	356	400	177	441	737
2%	929	1,200	1,667	817	246	205	263	299	278	166	338	699
0%	878	1,046	1,433	816	228	193	106	115	51	161	226	665

Monthly Flows (in CFS) for

03140203 - Lower Choctawhatchee River Subbasin in Alabama

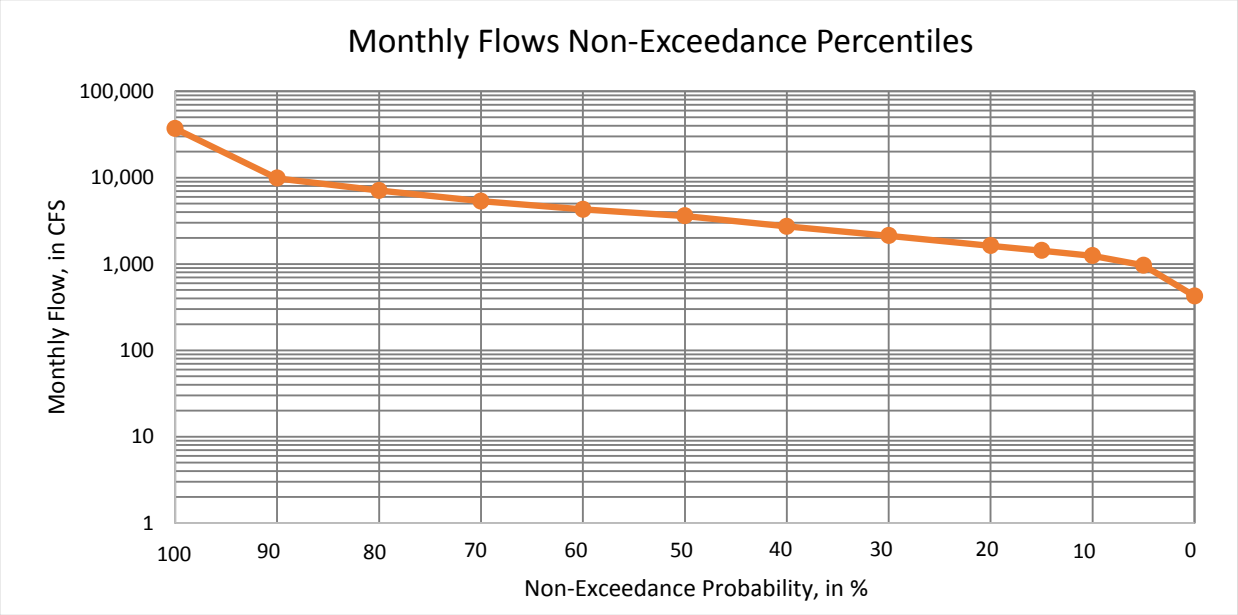
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	5,259	9,091	10,185	19,905	5,113	6,795	4,551	12,563	5,949	13,274	6,885	6,539	8,829
1976	7,774	7,660	6,691	7,238	9,456	6,472	3,147	2,640	2,729	4,433	4,795	10,533	6,127
1977	9,059	5,255	11,252	5,704	1,971	1,685	1,590	3,858	3,718	2,167	5,638	4,819	4,728
1978	15,278	10,838	12,335	7,468	11,852	6,620	3,099	3,872	1,428	1,219	1,608	2,971	6,539
1979	6,721	12,532	12,079	9,596	5,053	2,723	4,000	2,270	3,264	3,033	3,439	4,138	5,692
1980	5,003	4,370	18,251	15,662	7,497	3,818	2,288	1,709	1,411	1,489	2,197	2,049	5,485
1981	1,940	9,600	5,186	3,794	2,042	1,586	1,213	1,467	1,299	966	1,196	2,233	2,662
1982	7,606	14,082	7,215	4,975	3,067	1,645	2,817	3,522	1,827	1,371	1,860	5,708	4,586
1983	7,287	10,159	10,966	13,370	5,447	4,209	4,379	2,274	2,860	1,596	2,582	6,668	5,951
1984	7,314	5,968	12,103	6,399	4,327	1,915	2,208	3,619	1,308	1,037	1,446	2,214	4,155
1985	2,159	8,492	5,275	2,578	2,496	1,407	1,688	1,796	1,547	1,823	3,284	6,872	3,254
1986	6,563	7,750	8,011	2,764	1,541	1,242	1,060	1,107	1,366	1,106	1,631	3,468	3,111
1987	5,802	6,288	7,405	4,926	3,288	4,059	2,405	1,906	1,399	881	1,452	1,623	3,435
1988	4,148	5,988	8,451	3,981	1,510	991	2,592	1,388	5,075	2,854	2,520	2,160	3,454
1989	2,872	3,661	5,691	6,157	3,565	10,836	8,332	2,670	1,719	4,455	10,263	8,104	5,693
1990	17,032	11,053	23,646	6,742	6,013	3,437	2,212	1,385	979	1,093	1,281	1,759	6,383
1991	5,166	11,261	13,023	4,363	8,442	4,736	4,900	3,388	1,912	1,346	2,176	2,444	5,235
1992	8,390	13,179	10,419	4,724	2,044	4,968	3,037	3,123	2,206	2,119	8,647	9,725	6,000
1993	8,779	7,048	10,376	8,425	2,941	1,617	1,978	1,320	1,880	1,070	3,228	3,287	4,313
1994	4,071	7,314	7,938	7,077	2,937	5,809	36,943	6,499	3,213	5,026	2,571	4,543	7,867
1995	4,795	10,317	8,657	6,358	5,173	2,096	1,742	3,899	1,299	5,630	5,535	5,053	5,016
1996	5,652	10,220	9,179	10,988	4,252	2,845	2,067	2,141	3,842	4,018	2,121	4,269	5,093
1997	7,356	9,236	6,977	3,770	4,924	3,386	4,252	2,927	1,220	1,349	4,438	8,211	4,819
1998	11,726	12,279	18,560	7,198	3,174	1,533	1,863	2,183	3,053	9,344	2,724	2,387	6,316
1999	3,790	3,075	4,301	1,852	3,312	3,521	5,780	1,778	1,027	1,366	1,321	1,977	2,765
2000	2,720	2,584	2,977	1,700	613	526	425	560	736	539	1,413	2,635	1,447
2001	3,737	2,705	15,574	6,461	1,544	4,041	1,825	2,633	1,633	1,046	1,270	1,659	3,689
2002	1,945	2,718	3,953	4,156	921	821	980	835	925	1,495	3,357	4,406	2,204
2003	3,656	4,272	10,386	8,637	4,029	6,903	9,184	8,259	4,012	2,203	2,699	3,643	5,669
2004	3,834	9,033	4,079	2,121	3,789	4,824	3,448	1,606	5,468	2,872	4,423	5,462	4,208
2005	4,717	4,699	6,870	17,345	4,968	4,336	5,960	7,081	2,828	1,663	2,123	4,236	5,564
2006	5,671	5,107	4,945	2,197	2,738	851	765	1,087	1,156	1,240	2,715	2,100	2,536
2007	4,057	3,751	3,932	6,334	1,104	653	1,517	703	786	1,072	1,737	3,619	2,429
2008	6,747	9,804	5,539	5,119	1,446	1,107	1,268	3,339	1,781	1,486	1,550	8,155	3,914
2009	4,562	3,076	10,130	15,455	8,214	4,144	4,085	4,593	3,930	4,472	6,138	22,120	7,615
2010	13,900	15,544	8,150	3,577	4,358	2,336	1,666	1,408	847	855	1,327	1,793	4,586
2011	2,416	3,644	3,668	1,979	768	528	1,408	753	770	488	631	1,585	1,542
2012	2,350	3,448	2,685	2,086	1,265	1,662	976	3,948	4,241	1,650	993	2,428	2,302
2013	2,367	15,465	8,310	4,615	2,334	2,004	15,042	9,469	4,863	2,466	2,297	6,026	6,227
2014	6,795	8,316	7,032	18,497	10,868	3,714	2,414	1,563	1,430	2,048	1,659	4,181	5,682

Non-Exceedance Percentiles

03140203 - Lower Choctawhatchee River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585	1,447
5th %	2,148	2,717	3,633	1,972	913	647	965	750	786	840	1,185	1,657	2,171
10th %	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789	2,416
15th %	2,674	3,615	4,268	2,521	1,500	1,090	1,260	1,288	1,020	1,045	1,326	2,038	2,643
20th %	3,499	3,733	5,138	3,415	1,543	1,374	1,495	1,388	1,207	1,072	1,439	2,148	3,042
30th %	3,990	4,985	6,391	4,104	2,247	1,637	1,725	1,593	1,348	1,234	1,624	2,415	3,619
40th %	4,655	6,168	7,141	4,845	2,939	1,969	2,031	1,862	1,430	1,369	2,017	3,161	4,271
Median	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891	4,773
60th %	6,107	9,056	8,866	6,424	4,118	3,598	2,905	2,773	2,029	1,913	2,629	4,324	5,335
70th %	6,943	9,910	10,379	7,210	4,937	4,084	3,614	3,428	2,918	2,282	3,245	5,176	5,685
80th %	7,640	10,881	11,417	8,829	5,228	4,753	4,413	3,877	3,743	3,230	4,426	6,565	6,025
90th %	9,325	12,596	13,278	15,476	8,237	6,486	6,197	6,557	4,303	4,528	5,688	8,161	6,399
Maximum	17,032	15,544	23,646	19,905	11,852	10,836	36,943	12,563	5,949	13,274	10,263	22,120	8,829
Average	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695	4,678

	Flows in CFS
Minimum	425.5
5th %	964
10th %	1,242
15th %	1,426
20th %	1,622
30th %	2,121
40th %	2,719
Median	3,598
60th %	4,284
70th %	5,326
80th %	7,077
90th %	9,836
Maximum	36,943
Average	4,694

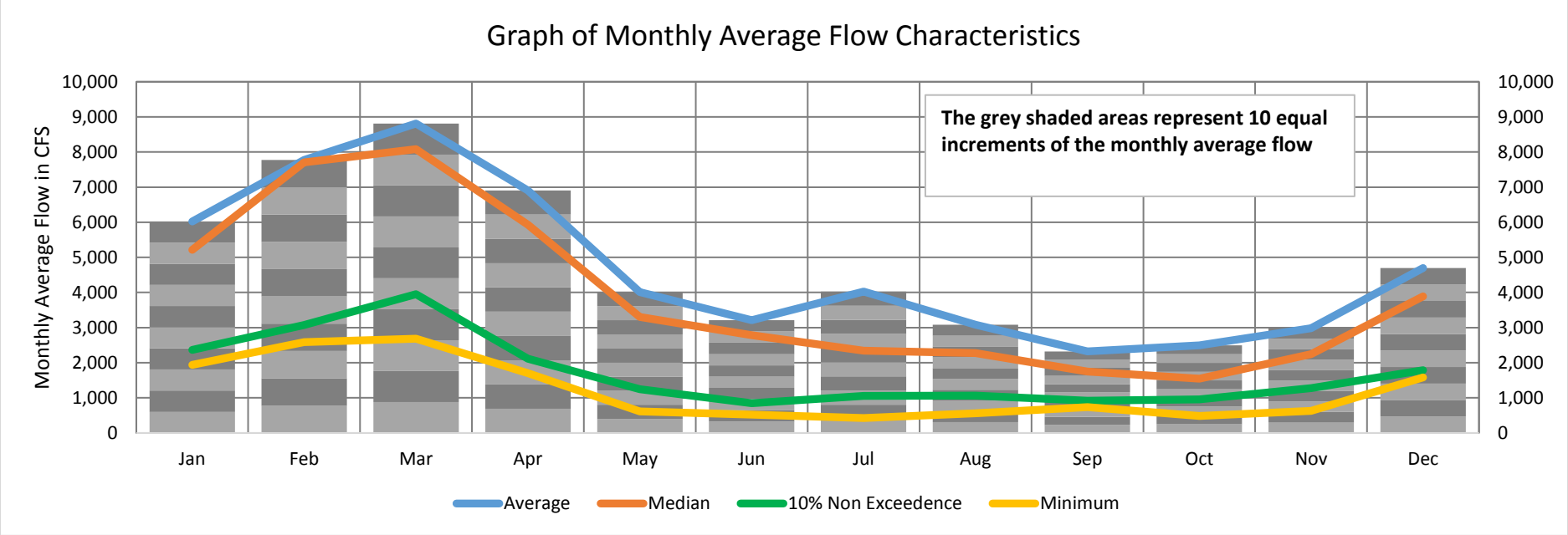


Q10/Q50	0.35
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.13
Q5/DA	0.31
Q10/DA	0.39
Q15/DA	0.45
Q20/DA	0.51
Q30/DA	0.67
Q40/DA	0.86
Q50/DA	1.14
Q60/DA	1.36
Q70/DA	1.69
Q80/DA	2.24
Q90/DA	3.11
Qmax/DA	11.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 03140203 Name: Lower Choctawhatchee River Subbasin in Alabama

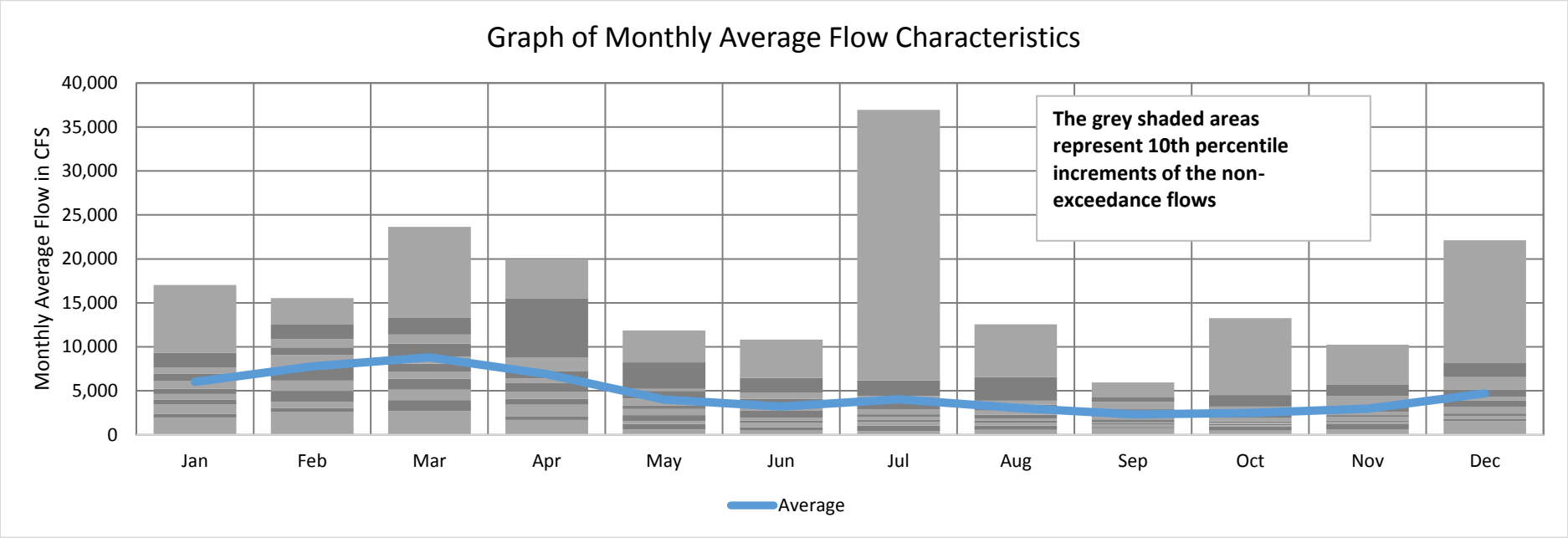
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695
100%	17,032	15,544	23,646	19,905	11,852	10,836	36,943	12,563	5,949	13,274	10,263	22,120
98%	15,664	15,483	19,679	18,807	11,085	7,768	19,860	10,150	5,574	10,209	9,002	13,082
95%	13,969	14,151	18,267	17,403	9,526	6,801	9,477	8,320	5,095	5,815	6,973	9,765
90%	9,325	12,596	13,278	15,476	8,237	6,486	6,197	6,557	4,303	4,528	5,688	8,161
75%	7,325	10,244	10,556	7,707	5,068	4,241	4,127	3,679	3,226	2,859	3,377	5,787
50%	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891
25%	3,777	4,345	5,473	3,788	2,024	1,573	1,647	1,452	1,299	1,103	1,526	2,228
10%	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789
5%	2,148	2,717	3,633	1,972	913	647	965	750	786	840	1,185	1,657
2%	1,944	2,679	2,913	1,818	734	527	690	672	762	528	914	1,614
0%	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585

Site #: 03140203 Name: Lower Choctawhatchee River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,159 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695
100%	17,032	15,544	23,646	19,905	11,852	10,836	36,943	12,563	5,949	13,274	10,263	22,120
98%	15,664	15,483	19,679	18,807	11,085	7,768	19,860	10,150	5,574	10,209	9,002	13,082
95%	13,969	14,151	18,267	17,403	9,526	6,801	9,477	8,320	5,095	5,815	6,973	9,765
90%	9,325	12,596	13,278	15,476	8,237	6,486	6,197	6,557	4,303	4,528	5,688	8,161
75%	7,325	10,244	10,556	7,707	5,068	4,241	4,127	3,679	3,226	2,859	3,377	5,787
50%	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891
25%	3,777	4,345	5,473	3,788	2,024	1,573	1,647	1,452	1,299	1,103	1,526	2,228
10%	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789
5%	2,148	2,717	3,633	1,972	913	647	965	750	786	840	1,185	1,657
2%	1,944	2,679	2,913	1,818	734	527	690	672	762	528	914	1,614
0%	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585

Monthly Flows (in CFS) for
03140301 - Upper Conecuh River Subbasin

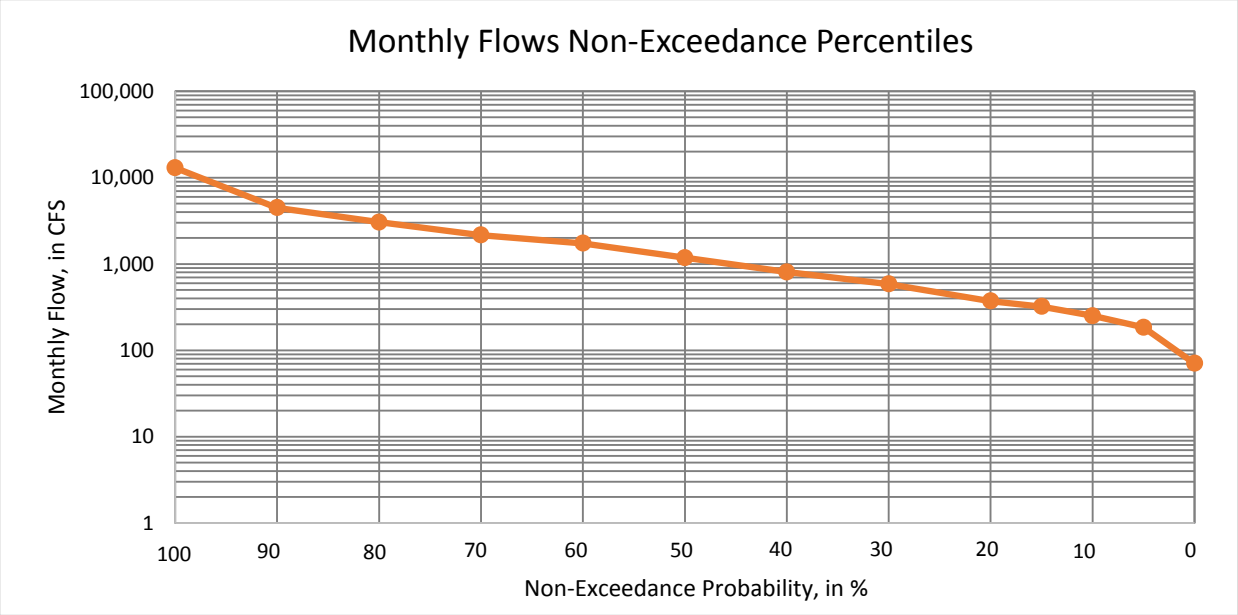
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,288	8,267	6,586	5,600	2,019	2,146	1,775	4,411	4,382	5,499	2,954	2,608	4,098
1976	4,013	2,847	3,803	3,630	5,255	2,799	1,014	742	638	678	1,350	3,960	2,563
1977	3,529	2,033	6,459	2,809	672	488	584	813	618	501	1,412	1,108	1,755
1978	7,100	3,199	3,303	2,643	4,003	1,951	728	1,201	312	230	371	792	2,153
1979	2,541	6,291	5,911	5,870	1,810	751	1,344	927	901	620	963	1,649	2,437
1980	2,326	1,997	5,525	7,392	3,357	1,093	449	325	312	442	554	597	2,028
1981	513	3,912	1,931	1,485	523	361	214	299	282	169	302	1,007	895
1982	3,221	5,600	2,412	2,189	2,114	489	1,100	1,101	383	309	641	2,553	1,822
1983	3,259	5,121	6,229	4,874	1,411	1,748	1,606	504	855	357	1,330	3,270	2,530
1984	3,421	2,669	4,086	1,880	1,373	354	287	1,133	227	178	358	1,025	1,414
1985	923	3,275	2,751	1,055	962	218	287	392	315	373	632	2,333	1,115
1986	1,931	2,591	6,111	1,074	461	322	185	164	461	229	814	1,459	1,314
1987	2,190	3,580	3,510	2,111	1,260	1,382	724	283	176	130	360	571	1,342
1988	2,956	2,382	3,713	1,802	405	164	363	170	653	558	712	621	1,203
1989	1,029	1,123	2,697	4,535	1,205	5,759	4,108	596	346	698	2,060	3,066	2,268
1990	6,441	5,435	12,978	3,252	1,827	740	478	249	146	201	255	495	2,703
1991	1,419	2,572	4,479	2,088	2,914	1,394	1,303	511	418	253	785	1,156	1,605
1992	4,552	5,042	3,000	1,771	587	1,393	860	489	333	371	5,057	4,785	2,333
1993	3,482	3,040	4,469	3,400	925	343	520	569	555	356	1,271	1,606	1,704
1994	1,748	3,092	2,427	1,694	663	1,141	7,929	2,116	671	1,127	971	1,759	2,114
1995	1,929	4,424	4,694	1,730	634	532	277	355	202	3,865	2,022	3,463	2,000
1996	3,888	5,797	4,559	5,080	1,824	1,010	552	580	1,929	578	725	1,111	2,275
1997	2,424	4,454	2,673	1,838	2,622	1,811	1,066	478	188	507	2,127	5,551	2,133
1998	4,842	5,759	9,095	2,562	826	333	374	323	2,637	4,279	794	742	2,701
1999	1,739	1,937	3,584	1,209	1,726	1,986	3,286	492	199	350	348	671	1,462
2000	943	777	1,516	678	162	103	70	85	142	150	400	780	483
2001	1,905	1,465	11,306	3,495	565	1,828	597	1,161	596	327	670	1,034	2,089
2002	1,188	1,685	2,624	1,371	300	264	397	258	266	1,154	1,936	2,698	1,177
2003	1,958	2,187	4,503	4,216	2,437	4,475	4,855	3,525	2,139	724	1,041	1,682	2,815
2004	1,942	4,127	2,080	767	737	1,514	1,020	704	3,754	1,000	1,984	2,367	1,812
2005	1,560	2,263	2,221	7,467	1,267	1,247	2,240	3,086	1,119	756	753	1,496	2,116
2006	1,850	2,205	2,097	882	1,719	258	179	186	203	287	1,084	452	944
2007	1,660	1,248	1,229	1,857	241	149	202	76	121	209	355	908	684
2008	2,329	3,246	2,258	1,758	241	88	111	1,645	673	271	434	2,364	1,275
2009	1,765	998	3,929	5,715	2,578	1,331	571	749	1,640	998	2,887	10,750	2,840
2010	6,985	6,066	5,309	1,458	2,043	712	350	539	238	233	557	763	2,087
2011	944	2,013	2,657	1,214	188	85	251	107	202	83	198	649	708
2012	862	1,855	1,197	1,230	460	723	246	309	846	195	143	709	722
2013	1,165	6,053	3,591	1,825	601	372	3,146	2,608	560	291	339	1,444	1,810
2014	2,330	3,981	2,938	8,255	2,683	1,175	560	525	300	351	477	1,202	2,044

Non-Exceedance Percentiles

03140301 - Upper Conecuh River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	513	777	1,197	678	162	85	70	76	121	83	143	452	483
5th %	920	1,117	1,502	876	238	103	176	106	146	149	252	567	707
10th %	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619	878
15th %	1,145	1,829	2,202	1,214	452	252	241	239	201	200	354	668	1,089
20th %	1,373	1,985	2,381	1,343	511	311	272	278	203	225	359	736	1,197
30th %	1,745	2,199	2,668	1,719	624	359	359	324	277	266	464	873	1,392
40th %	1,919	2,584	2,975	1,816	791	515	466	485	314	320	638	1,079	1,734
Median	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323	1,911
60th %	2,367	3,397	3,992	2,595	1,534	1,155	726	587	574	465	874	1,623	2,088
70th %	3,232	4,216	4,520	3,428	1,825	1,385	1,034	768	658	591	1,140	2,343	2,139
80th %	3,492	5,184	5,603	4,603	2,178	1,761	1,396	1,139	864	730	1,517	2,626	2,354
90th %	4,581	5,823	6,472	5,730	2,706	2,002	3,160	2,165	1,950	1,130	2,067	3,512	2,701
Maximum	7,100	8,267	12,978	8,255	5,255	5,759	7,929	4,411	4,382	5,499	5,057	10,750	4,098
Average	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931	1,839

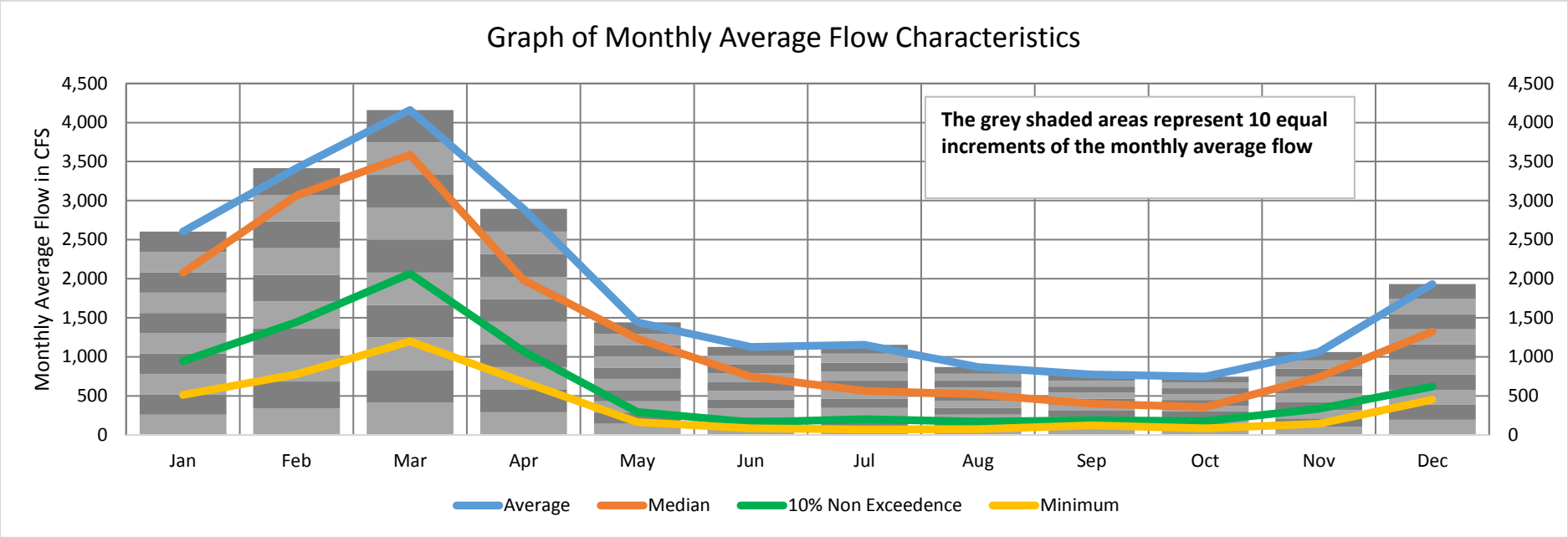
	Flows in CFS
Minimum	70.4
5th %	184
10th %	251
15th %	321
20th %	372
30th %	586
40th %	805
Median	1,182
60th %	1,733
70th %	2,158
80th %	3,045
90th %	4,470
Maximum	12,978
Average	1,848



Q10/Q50	0.21
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.05
Q5/DA	0.13
Q10/DA	0.17
Q15/DA	0.22
Q20/DA	0.26
Q30/DA	0.41
Q40/DA	0.56
Q50/DA	0.82
Q60/DA	1.20
Q70/DA	1.49
Q80/DA	2.11
Q90/DA	3.09
Qmax/DA	8.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

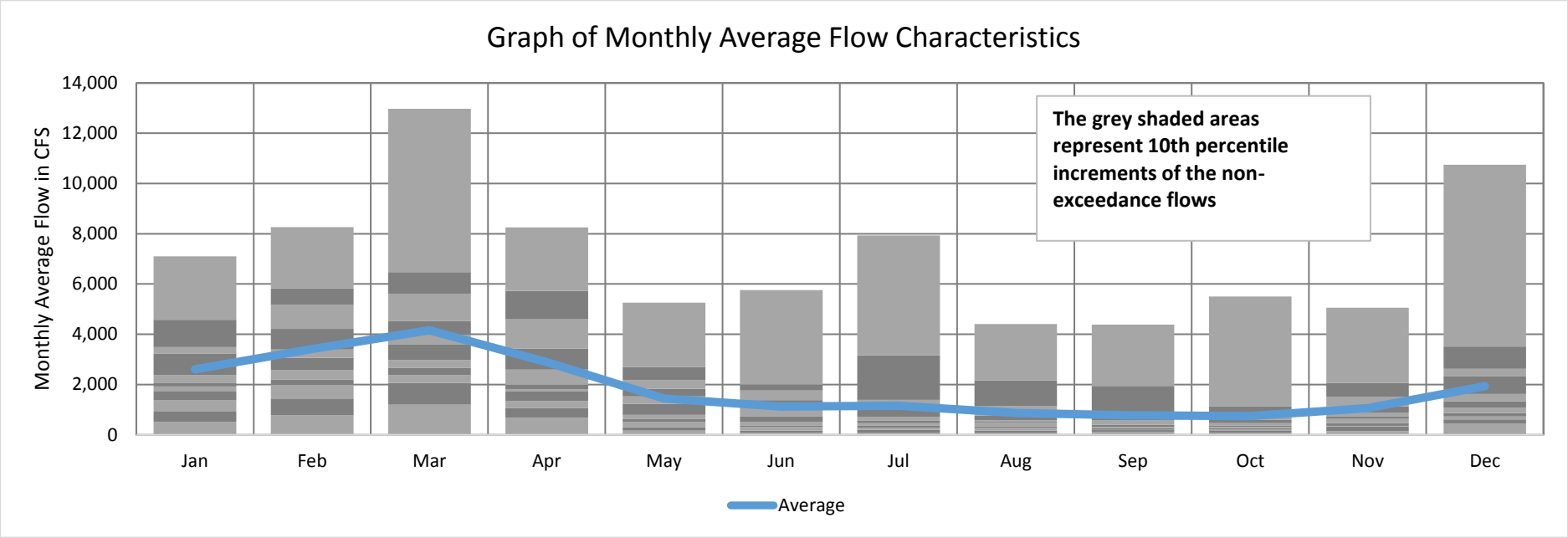
Site #: 03140301 Name: Upper Conecuh River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931
100%	7,100	8,267	12,978	8,255	5,255	5,759	7,929	4,411	4,382	5,499	5,057	10,750
98%	7,010	6,726	11,674	7,641	4,278	4,758	5,531	3,720	3,892	4,547	3,417	6,695
95%	6,468	6,077	9,205	7,395	3,389	2,883	4,145	3,108	2,693	3,886	2,891	4,824
90%	4,581	5,823	6,472	5,730	2,706	2,002	3,160	2,165	1,950	1,130	2,067	3,512
75%	3,322	4,601	4,848	3,777	2,025	1,424	1,150	970	716	683	1,335	2,414
50%	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323
25%	1,635	2,028	2,575	1,478	581	341	287	306	235	232	393	776
10%	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619
5%	920	1,117	1,502	876	238	103	176	106	146	149	252	567
2%	785	949	1,222	747	182	88	102	83	137	120	186	486
0%	513	777	1,197	678	162	85	70	76	121	83	143	452

Site #: 03140301 Name: Upper Conecuh River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,446 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931
100%	7,100	8,267	12,978	8,255	5,255	5,759	7,929	4,411	4,382	5,499	5,057	10,750
98%	7,010	6,726	11,674	7,641	4,278	4,758	5,531	3,720	3,892	4,547	3,417	6,695
95%	6,468	6,077	9,205	7,395	3,389	2,883	4,145	3,108	2,693	3,886	2,891	4,824
90%	4,581	5,823	6,472	5,730	2,706	2,002	3,160	2,165	1,950	1,130	2,067	3,512
75%	3,322	4,601	4,848	3,777	2,025	1,424	1,150	970	716	683	1,335	2,414
50%	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323
25%	1,635	2,028	2,575	1,478	581	341	287	306	235	232	393	776
10%	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619
5%	920	1,117	1,502	876	238	103	176	106	146	149	252	567
2%	785	949	1,222	747	182	88	102	83	137	120	186	486
0%	513	777	1,197	678	162	85	70	76	121	83	143	452

Monthly Flows (in CFS) for
03140302 - Patsaliga Creek Subbasin

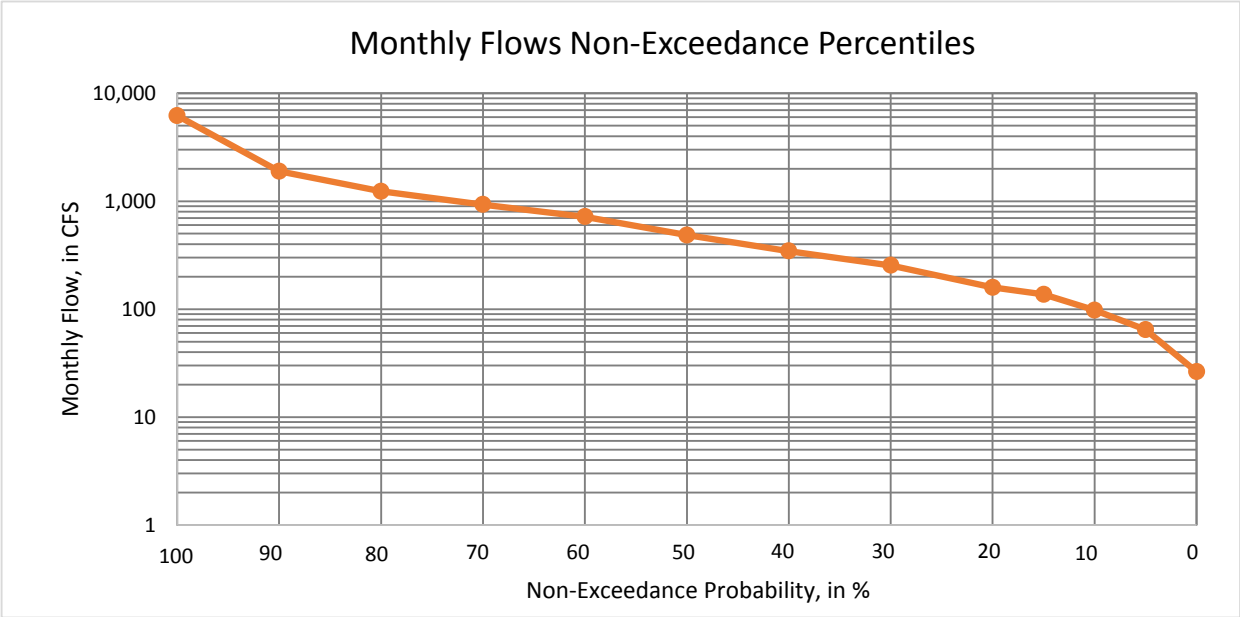
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,483	3,361	2,671	2,302	909	928	659	1,873	2,184	2,402	1,280	1,126	1,753
1976	2,029	1,168	1,747	1,668	2,470	1,213	457	327	288	263	596	1,643	1,158
1977	1,481	786	2,756	1,237	327	246	356	413	301	237	490	424	756
1978	2,711	1,207	1,285	1,128	1,676	1,012	340	477	151	109	200	391	891
1979	1,128	2,705	2,454	2,462	691	320	557	411	386	231	401	671	1,023
1980	1,029	798	2,340	2,995	1,316	393	170	137	142	206	236	255	834
1981	217	1,350	719	581	211	130	60	89	103	59	109	389	327
1982	1,215	2,356	992	872	926	207	394	431	159	153	275	994	739
1983	1,339	2,128	2,644	2,094	603	748	695	234	411	172	672	1,452	1,092
1984	1,469	1,139	1,666	825	530	150	123	622	96	77	156	418	605
1985	407	1,503	1,241	466	470	88	144	140	111	139	301	955	491
1986	771	1,047	2,542	463	206	152	74	70	265	82	308	519	540
1987	744	1,481	1,378	849	581	494	286	139	59	46	164	268	535
1988	1,110	1,017	1,399	720	137	64	144	69	309	205	313	300	479
1989	429	372	1,011	1,893	411	2,135	1,562	221	131	252	763	1,229	867
1990	2,564	2,341	6,208	1,524	737	273	185	112	54	72	101	229	1,198
1991	601	1,060	1,906	940	1,223	477	315	162	180	102	270	351	631
1992	1,735	2,249	1,072	656	239	671	406	253	141	157	2,365	2,047	989
1993	1,507	1,222	1,917	1,539	420	146	220	301	218	160	495	668	732
1994	728	1,232	1,036	722	290	474	2,529	886	257	499	406	792	821
1995	795	1,607	1,766	618	219	268	111	133	76	1,414	749	1,138	738
1996	1,414	2,183	1,880	2,069	855	381	269	263	937	271	334	553	941
1997	1,136	2,020	1,255	823	1,112	902	466	207	67	180	843	2,257	933
1998	1,912	2,214	3,766	1,094	350	145	159	130	1,646	2,093	380	359	1,183
1999	749	840	1,521	506	700	964	1,444	243	104	172	177	334	647
2000	441	361	716	271	61	31	34	58	70	29	200	445	226
2001	1,046	750	5,016	1,580	223	698	219	436	189	98	411	489	933
2002	569	804	1,333	625	158	108	188	100	105	486	781	935	515
2003	720	912	1,861	1,963	917	1,826	2,133	1,690	1,010	314	424	966	1,230
2004	886	1,841	789	282	267	666	324	265	1,838	426	867	982	776
2005	684	964	1,293	3,178	485	534	949	940	340	275	349	855	901
2006	975	1,059	995	307	914	83	55	62	64	125	357	243	434
2007	751	483	514	590	69	42	69	26	35	65	122	234	249
2008	897	1,227	835	627	119	42	49	659	134	86	170	682	457
2009	674	362	2,006	1,749	844	417	211	302	896	363	1,104	4,229	1,103
2010	2,674	2,298	2,674	629	835	299	149	153	80	94	219	278	859
2011	353	866	1,148	535	89	53	149	41	51	34	97	285	305
2012	312	733	585	556	211	282	73	72	296	75	62	294	292
2013	474	2,479	1,319	727	259	174	1,075	806	200	124	154	629	691
2014	980	1,755	1,296	3,677	1,059	555	229	256	100	142	224	602	897

Non-Exceedance Percentiles

03140302 - Patsaliga Creek Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	217	361	514	271	61	31	34	26	35	29	62	229	226
5th %	351	372	709	306	88	42	54	57	54	46	101	242	290
10th %	427	708	782	466	136	63	68	68	63	64	121	266	325
15th %	469	780	969	531	199	87	74	72	69	75	156	284	453
20th %	595	803	1,008	576	211	126	121	98	79	81	169	299	489
30th %	725	949	1,213	627	253	152	149	136	103	101	213	380	585
40th %	763	1,059	1,295	721	341	259	187	158	133	133	273	437	716
Median	936	1,214	1,389	837	477	310	224	238	155	158	323	577	766
60th %	1,072	1,402	1,754	1,107	638	439	318	263	207	190	388	675	863
70th %	1,252	1,781	1,910	1,551	837	540	397	352	290	241	444	941	911
80th %	1,481	2,189	2,472	1,907	914	708	578	444	349	283	688	1,020	996
90th %	1,923	2,343	2,682	2,318	1,123	969	1,112	814	945	488	845	1,471	1,160
Maximum	2,711	3,361	6,208	3,677	2,470	2,135	2,529	1,873	2,184	2,402	2,365	4,229	1,753
Average	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798	769

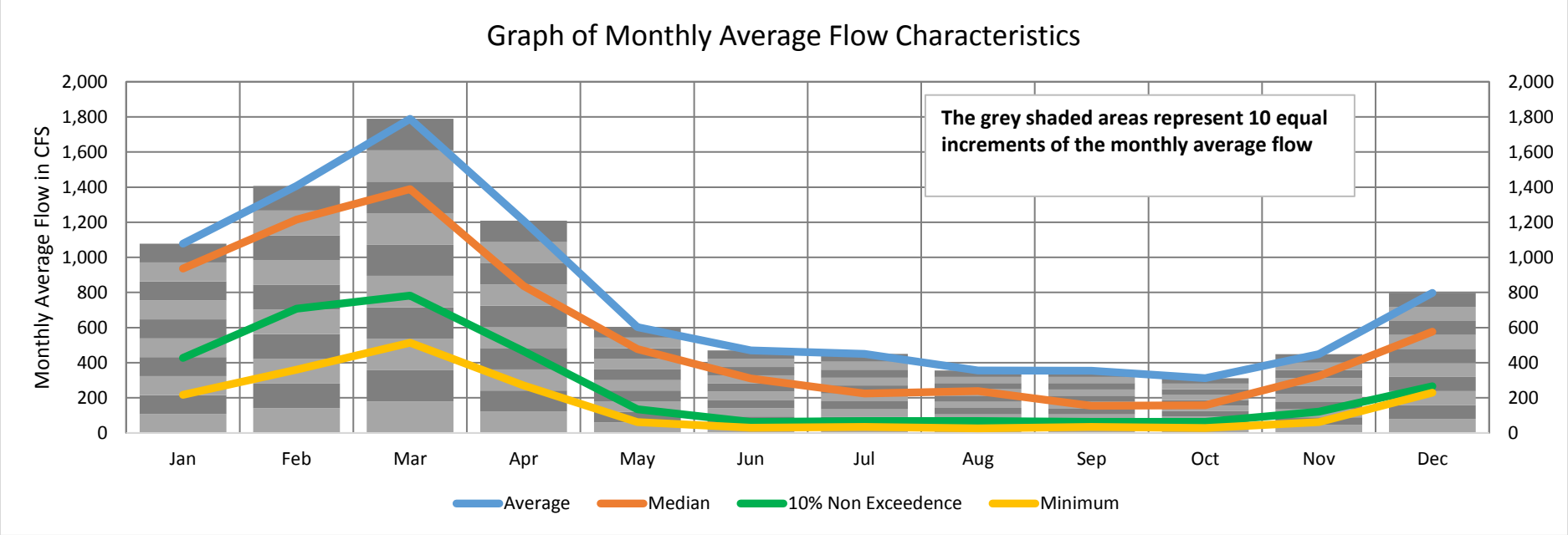
	Flows in CFS
Minimum	26.3
5th %	65
10th %	98
15th %	137
20th %	159
30th %	254
40th %	345
Median	484
60th %	717
70th %	930
80th %	1,233
90th %	1,894
Maximum	6,208
Average	773



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.04
Q5/DA	0.11
Q10/DA	0.16
Q15/DA	0.23
Q20/DA	0.27
Q30/DA	0.43
Q40/DA	0.58
Q50/DA	0.82
Q60/DA	1.21
Q70/DA	1.57
Q80/DA	2.08
Q90/DA	3.19
Qmax/DA	10.47

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

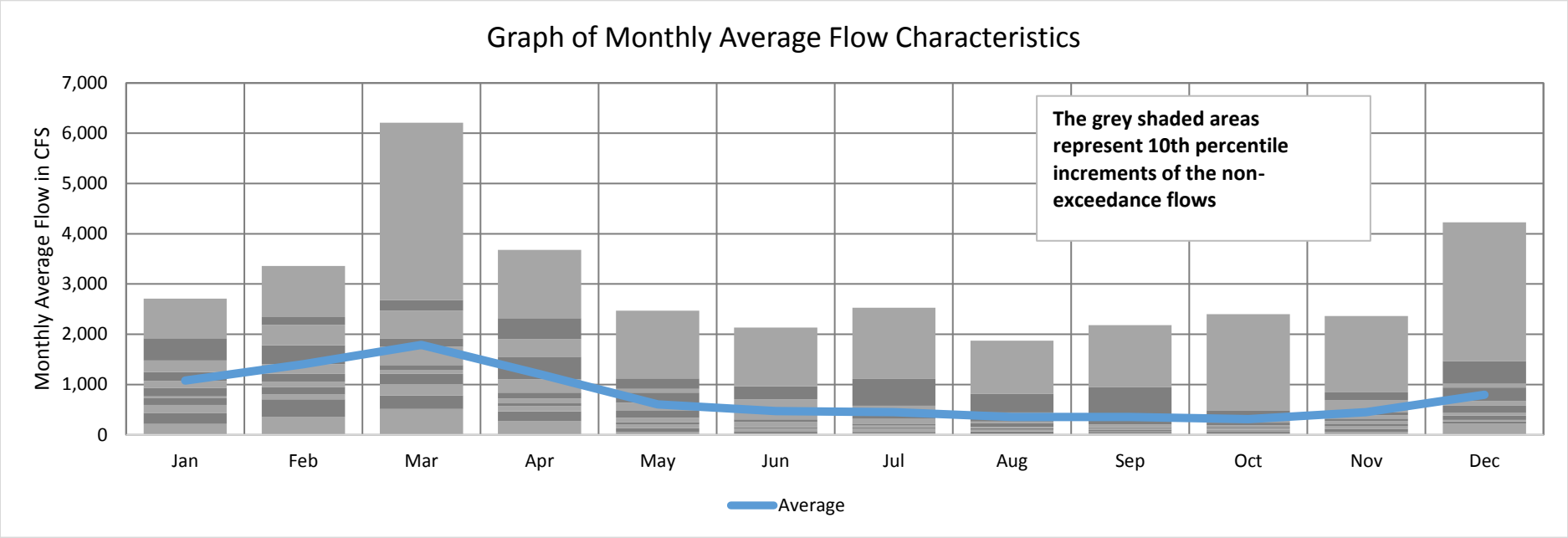
Site #: 03140302 Name: Patsaliga Creek Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798
100%	2,711	3,361	6,208	3,677	2,470	2,135	2,529	1,873	2,184	2,402	2,365	4,229
98%	2,682	2,849	5,278	3,288	1,850	1,894	2,220	1,731	1,914	2,161	1,519	2,691
95%	2,569	2,491	3,828	3,004	1,334	1,244	1,590	977	1,656	1,448	1,113	2,058
90%	1,923	2,343	2,682	2,318	1,123	969	1,112	814	945	488	845	1,471
75%	1,428	2,047	2,089	1,688	868	667	459	417	303	265	520	970
50%	936	1,214	1,389	837	477	310	224	238	155	158	323	577
25%	682	859	1,063	611	222	146	144	126	99	92	194	347
10%	427	708	782	466	136	63	68	68	63	64	121	266
5%	351	372	709	306	88	42	54	57	54	46	101	242
2%	291	361	570	280	67	39	45	37	48	33	89	233
0%	217	361	514	271	61	31	34	26	35	29	62	229

Site #: 03140302 Name: Patsaliga Creek Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 593 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798
100%	2,711	3,361	6,208	3,677	2,470	2,135	2,529	1,873	2,184	2,402	2,365	4,229
98%	2,682	2,849	5,278	3,288	1,850	1,894	2,220	1,731	1,914	2,161	1,519	2,691
95%	2,569	2,491	3,828	3,004	1,334	1,244	1,590	977	1,656	1,448	1,113	2,058
90%	1,923	2,343	2,682	2,318	1,123	969	1,112	814	945	488	845	1,471
75%	1,428	2,047	2,089	1,688	868	667	459	417	303	265	520	970
50%	936	1,214	1,389	837	477	310	224	238	155	158	323	577
25%	682	859	1,063	611	222	146	144	126	99	92	194	347
10%	427	708	782	466	136	63	68	68	63	64	121	266
5%	351	372	709	306	88	42	54	57	54	46	101	242
2%	291	361	570	280	67	39	45	37	48	33	89	233
0%	217	361	514	271	61	31	34	26	35	29	62	229

Monthly Flows (in CFS) for
03140303 - Sepulga River Subbasin

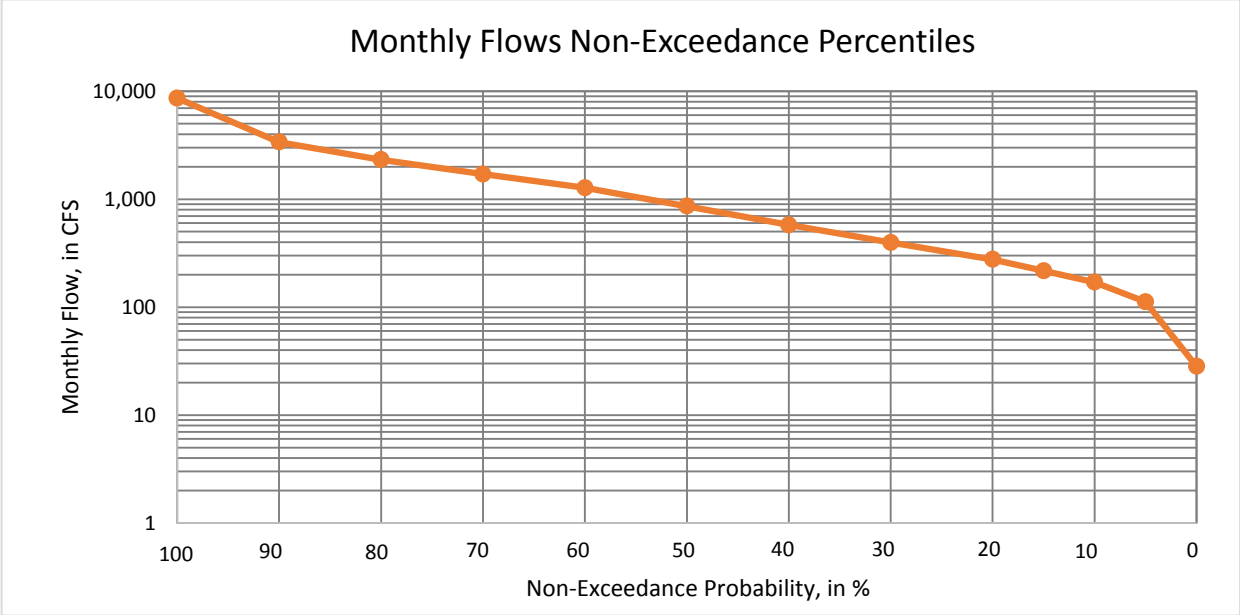
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,213	5,344	3,479	4,008	1,219	895	1,369	4,805	2,784	3,264	1,493	1,735	2,785
1976	3,885	2,133	2,717	2,768	3,841	2,400	628	419	326	275	784	2,230	1,868
1977	2,451	1,355	5,068	2,486	346	265	360	1,116	654	355	726	651	1,322
1978	4,388	2,107	2,261	1,866	4,666	2,018	539	496	144	111	179	601	1,617
1979	2,464	4,786	4,620	4,077	952	596	955	492	415	287	536	1,013	1,745
1980	1,850	1,573	4,711	7,159	3,211	1,433	452	230	321	415	450	470	1,853
1981	389	3,596	1,528	1,431	531	276	91	212	217	85	144	560	734
1982	2,109	4,738	1,768	1,613	1,272	292	686	878	212	193	344	1,180	1,253
1983	1,940	4,138	5,244	5,407	1,703	1,709	931	283	431	241	841	1,850	2,042
1984	2,726	2,057	3,343	2,179	1,573	436	397	1,681	261	362	518	1,082	1,385
1985	937	3,570	2,422	772	508	190	412	350	400	335	494	1,533	978
1986	1,277	2,473	3,278	634	428	331	160	135	445	99	575	1,075	901
1987	1,686	2,950	2,345	1,231	598	626	492	258	138	57	255	685	931
1988	2,147	1,979	2,576	977	264	118	366	154	855	539	799	558	939
1989	964	814	2,044	4,240	940	2,759	2,058	352	196	371	961	2,391	1,507
1990	4,779	5,021	6,449	1,462	1,079	417	325	156	79	74	87	216	1,664
1991	983	1,765	2,951	1,291	3,251	1,150	864	220	160	99	195	339	1,105
1992	3,047	4,608	1,565	808	240	1,604	533	671	338	194	3,929	3,780	1,754
1993	3,366	2,319	3,016	2,571	582	292	433	684	241	174	830	971	1,285
1994	1,926	2,604	2,279	1,988	722	628	4,786	880	364	502	358	780	1,483
1995	1,471	2,611	3,121	1,630	543	567	191	435	89	2,272	1,365	2,731	1,415
1996	2,904	2,997	3,603	3,626	1,176	757	598	362	511	381	335	783	1,493
1997	2,180	3,353	2,279	1,347	1,901	1,643	463	276	94	155	844	2,599	1,417
1998	4,327	3,251	5,709	1,169	464	173	175	142	2,386	4,454	357	394	1,916
1999	1,006	1,309	2,928	645	1,072	1,852	2,309	321	133	250	217	443	1,042
2000	564	535	967	474	123	84	59	71	101	28	235	789	336
2001	1,408	1,189	8,641	2,587	1,306	3,712	1,211	1,264	790	867	1,368	1,550	2,166
2002	1,218	1,520	3,055	1,351	386	256	368	276	369	1,321	1,697	2,097	1,159
2003	1,532	1,976	3,475	3,230	1,421	2,825	3,629	1,407	621	259	548	1,251	1,847
2004	1,526	3,234	1,236	555	777	782	704	306	2,107	1,055	2,396	2,009	1,375
2005	1,597	2,253	2,004	5,538	909	1,148	2,138	2,329	889	404	335	539	1,665
2006	1,351	1,897	1,214	359	641	164	109	132	104	171	800	494	612
2007	1,715	979	1,382	1,262	270	142	140	71	116	270	216	568	593
2008	2,262	2,681	1,627	1,388	350	112	277	1,326	357	134	298	1,519	1,019
2009	1,705	868	4,287	3,952	2,401	1,103	243	540	2,066	678	2,554	8,351	2,408
2010	4,689	4,366	3,633	789	1,348	392	187	182	106	85	165	249	1,335
2011	368	1,362	1,937	909	174	67	256	144	114	66	92	346	481
2012	580	1,728	802	362	567	748	269	607	1,503	344	202	824	703
2013	1,169	5,457	2,091	2,246	824	687	1,682	1,579	284	137	175	1,882	1,493
2014	1,906	3,637	2,961	6,253	3,721	804	284	204	171	174	235	1,098	1,771

Non-Exceedance Percentiles

03140303 - Sepulga River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	368	535	802	359	123	67	59	71	79	28	87	216	336
5th %	556	865	1,201	469	237	111	108	129	94	66	142	334	587
10th %	901	1,168	1,367	626	269	139	158	141	103	84	174	389	694
15th %	980	1,348	1,560	753	349	172	185	153	113	97	192	466	876
20th %	1,136	1,488	1,740	804	420	243	232	177	130	109	213	530	937
30th %	1,391	1,858	2,077	1,212	539	292	282	227	167	166	249	591	1,086
40th %	1,571	2,087	2,319	1,349	624	428	367	281	232	194	340	782	1,307
Median	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992	1,400
60th %	2,008	2,788	3,032	2,064	1,075	767	535	457	366	338	559	1,131	1,493
70th %	2,319	3,282	3,383	2,576	1,282	1,116	691	626	435	374	799	1,538	1,664
80th %	2,933	3,737	3,763	3,691	1,599	1,612	1,006	927	681	509	868	1,907	1,786
90th %	3,929	4,743	5,086	4,357	3,215	2,056	2,066	1,424	1,560	1,082	1,513	2,412	1,928
Maximum	4,779	5,457	8,641	7,159	4,666	3,712	4,786	4,805	2,784	4,454	3,929	8,351	2,785
Average	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355	1,385

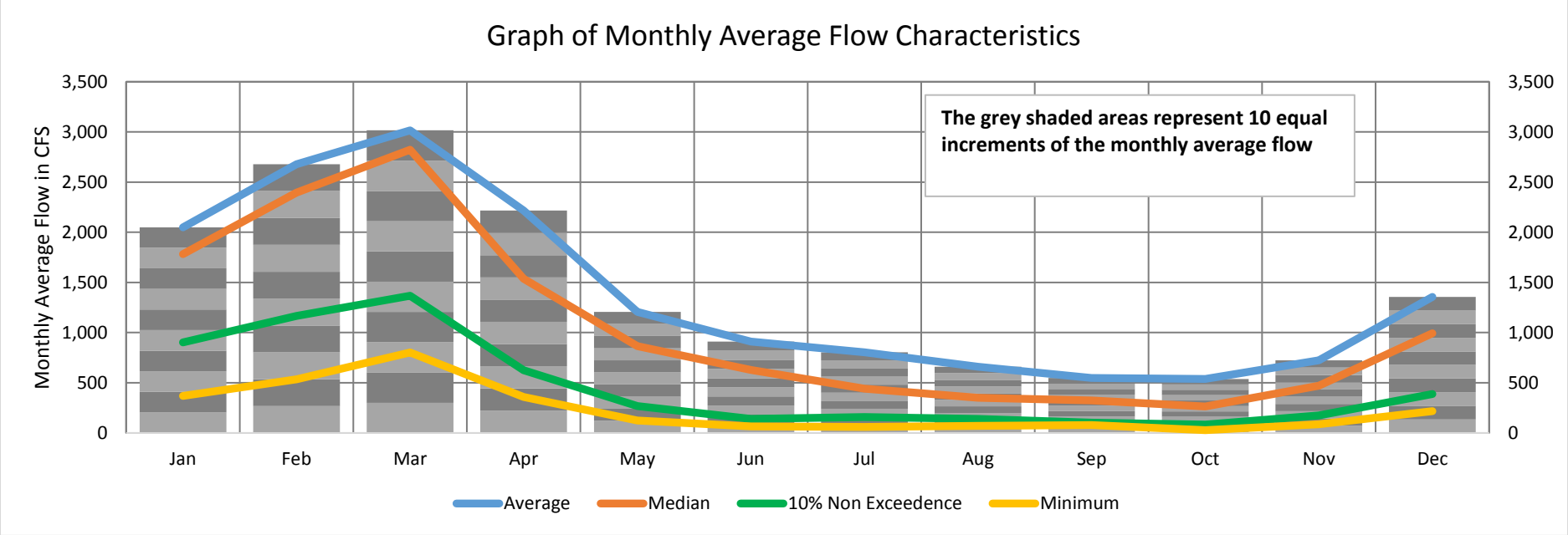
	Flows in CFS
Minimum	28.2
5th %	112
10th %	170
15th %	217
20th %	276
30th %	396
40th %	578
Median	860
60th %	1,274
70th %	1,704
80th %	2,321
90th %	3,377
Maximum	8,641
Average	1,392



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.03
Q5/DA	0.11
Q10/DA	0.17
Q15/DA	0.21
Q20/DA	0.27
Q30/DA	0.39
Q40/DA	0.57
Q50/DA	0.85
Q60/DA	1.25
Q70/DA	1.68
Q80/DA	2.28
Q90/DA	3.32
Qmax/DA	8.50

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

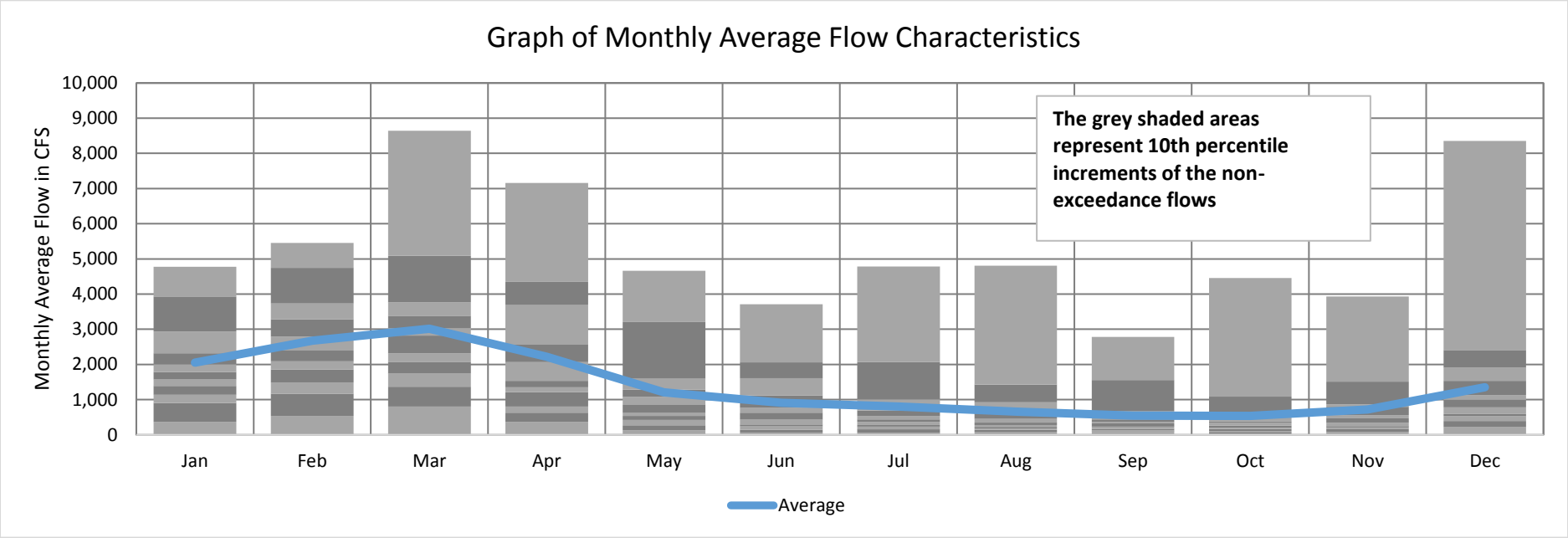
Site #: 03140303 Name: Sepulga River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355
100%	4,779	5,457	8,641	7,159	4,666	3,712	4,786	4,805	2,784	4,454	3,929	8,351
98%	4,709	5,369	6,931	6,452	4,023	3,020	3,884	2,874	2,473	3,526	2,856	4,786
95%	4,403	5,037	5,746	5,574	3,727	2,762	2,375	1,714	2,121	2,322	2,404	2,783
90%	3,929	4,743	5,086	4,357	3,215	2,056	2,066	1,424	1,560	1,082	1,513	2,412
75%	2,529	3,577	3,510	2,884	1,366	1,221	881	733	539	407	832	1,764
50%	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992
25%	1,262	1,689	1,987	960	497	273	266	210	142	137	230	560
10%	901	1,168	1,367	626	269	139	158	141	103	84	174	389
5%	556	865	1,201	469	237	111	108	129	94	66	142	334
2%	384	753	931	361	163	80	84	71	87	51	91	242
0%	368	535	802	359	123	67	59	71	79	28	87	216

Site #: 03140303 Name: Sepulga River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,017 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355
100%	4,779	5,457	8,641	7,159	4,666	3,712	4,786	4,805	2,784	4,454	3,929	8,351
98%	4,709	5,369	6,931	6,452	4,023	3,020	3,884	2,874	2,473	3,526	2,856	4,786
95%	4,403	5,037	5,746	5,574	3,727	2,762	2,375	1,714	2,121	2,322	2,404	2,783
90%	3,929	4,743	5,086	4,357	3,215	2,056	2,066	1,424	1,560	1,082	1,513	2,412
75%	2,529	3,577	3,510	2,884	1,366	1,221	881	733	539	407	832	1,764
50%	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992
25%	1,262	1,689	1,987	960	497	273	266	210	142	137	230	560
10%	901	1,168	1,367	626	269	139	158	141	103	84	174	389
5%	556	865	1,201	469	237	111	108	129	94	66	142	334
2%	384	753	931	361	163	80	84	71	87	51	91	242
0%	368	535	802	359	123	67	59	71	79	28	87	216

Monthly Flows (in CFS) for

03140304 - Lower Conecuh River Subbasin in Alabama

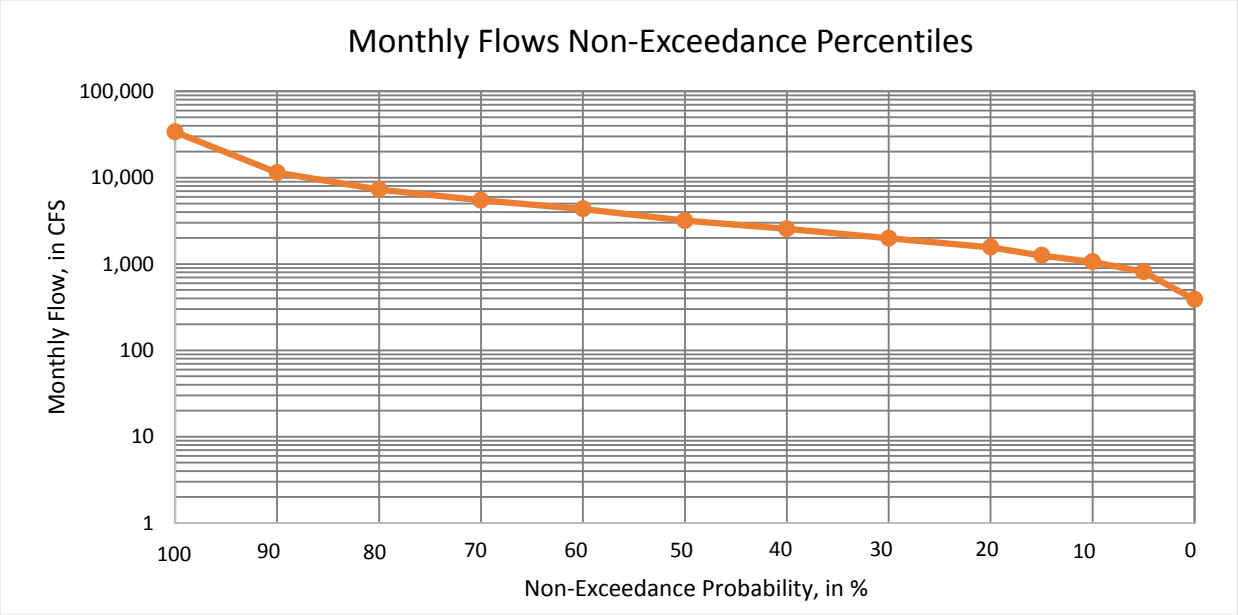
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,275	14,998	14,565	23,806	7,134	6,027	5,108	19,777	9,392	13,487	7,232	7,027	11,370
1976	12,710	8,517	7,346	11,023	13,432	8,505	2,861	2,010	1,869	1,563	2,810	6,887	6,619
1977	7,491	4,165	14,948	9,538	1,972	1,381	1,607	4,330	2,558	1,646	2,636	2,703	4,591
1978	12,304	11,623	8,504	5,859	16,701	10,965	2,816	2,883	1,317	1,144	1,280	2,646	6,479
1979	6,940	15,445	19,392	13,369	4,298	2,468	4,424	2,697	2,594	1,764	2,430	4,018	6,597
1980	5,990	4,623	15,618	27,741	12,797	6,707	2,588	1,627	1,744	2,201	2,461	2,194	7,185
1981	1,860	13,618	4,673	3,727	2,220	1,649	1,008	1,052	1,067	742	962	2,153	2,818
1982	7,054	15,936	5,828	4,758	3,466	1,371	2,606	3,566	1,253	1,065	1,538	3,712	4,274
1983	6,232	15,175	18,063	21,414	6,284	5,463	4,421	2,251	2,349	1,495	2,794	6,727	7,658
1984	8,289	5,479	10,927	6,293	7,715	2,113	2,333	6,192	1,301	1,542	1,681	2,916	4,746
1985	2,899	11,404	8,121	2,742	2,449	1,406	3,122	1,944	1,860	2,013	2,862	6,584	3,908
1986	5,871	6,462	12,830	2,968	1,902	1,415	1,002	900	1,271	877	2,115	4,043	3,464
1987	5,177	8,947	8,320	4,522	2,945	3,296	2,102	2,228	947	709	1,578	2,227	3,550
1988	6,786	6,388	8,945	3,914	1,205	751	1,563	1,121	5,152	2,018	2,092	1,811	3,460
1989	2,174	1,965	4,720	10,010	3,830	11,646	7,903	1,984	1,303	2,032	4,714	5,693	4,832
1990	16,628	14,941	26,734	7,568	6,172	2,905	2,193	1,247	950	1,026	1,118	1,653	6,904
1991	4,255	6,780	9,494	3,853	9,374	4,458	4,168	2,004	1,790	1,090	1,878	2,269	4,278
1992	9,248	13,008	6,305	3,549	1,594	3,418	2,281	2,127	1,442	1,157	7,922	12,650	5,344
1993	8,754	6,618	8,665	7,645	2,938	1,518	2,376	1,985	1,804	1,464	3,461	3,204	4,189
1994	4,618	6,219	5,566	5,271	2,456	4,358	16,249	5,243	2,208	3,405	2,298	3,264	5,104
1995	5,002	12,151	11,346	6,618	3,892	2,398	1,756	3,973	1,058	11,278	6,058	8,688	6,159
1996	9,680	14,089	11,931	15,874	5,264	3,727	2,688	2,310	3,380	1,784	1,769	2,615	6,196
1997	5,083	8,437	6,728	3,989	4,728	4,237	2,647	1,902	949	1,189	3,617	9,105	4,364
1998	15,689	11,464	24,604	7,362	2,776	1,498	1,882	1,517	6,266	17,368	3,068	2,734	8,029
1999	4,316	4,294	8,712	3,030	3,195	3,678	7,686	2,048	1,190	1,213	1,077	1,702	3,519
2000	2,114	2,021	2,840	1,570	641	587	448	546	574	387	1,167	1,839	1,224
2001	4,183	3,442	23,824	7,331	1,894	6,142	2,099	3,798	2,873	1,823	1,820	2,899	5,199
2002	2,930	3,907	5,962	3,047	1,101	946	1,343	1,009	1,702	3,847	5,343	5,749	3,070
2003	5,008	4,955	10,040	8,521	5,353	8,066	11,906	7,041	4,022	2,062	2,503	4,462	6,176
2004	4,377	9,532	5,029	2,523	3,170	4,469	3,174	1,763	5,510	3,732	7,277	6,644	4,725
2005	4,989	5,644	5,040	18,490	4,518	4,239	6,324	7,249	4,319	2,442	2,150	3,422	5,719
2006	4,368	4,799	4,363	1,937	2,934	910	702	813	705	872	2,643	1,615	2,208
2007	4,429	3,030	2,799	5,585	864	645	864	499	704	1,042	1,205	2,747	2,026
2008	6,638	8,633	5,448	4,786	1,383	749	1,075	3,177	1,895	764	851	4,853	3,325
2009	4,599	2,583	8,462	15,501	7,036	4,286	1,624	2,628	4,498	3,013	7,342	33,725	7,986
2010	18,022	17,330	11,945	3,582	4,539	1,801	1,168	1,494	845	742	1,264	1,674	5,307
2011	2,307	4,542	5,910	2,879	791	532	955	596	792	559	625	1,584	1,824
2012	2,299	4,666	2,778	1,946	1,371	2,046	974	1,648	3,118	1,127	719	1,860	2,025
2013	2,753	13,923	8,765	5,405	2,205	1,525	4,468	4,881	1,871	1,059	955	3,460	4,213
2014	4,817	7,909	6,607	17,945	11,278	3,616	1,613	1,190	952	1,229	1,065	3,141	5,082

Non-Exceedance Percentiles

03140304 - Lower Conecuh River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584	1,224
5th %	2,171	2,555	2,837	1,945	861	642	855	594	705	702	844	1,651	2,015
10th %	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699	2,190
15th %	2,877	4,127	4,983	2,955	1,381	941	1,007	1,046	949	856	1,075	1,835	3,032
20th %	3,933	4,492	5,366	3,044	1,834	1,379	1,149	1,176	951	996	1,157	2,095	3,433
30th %	4,374	4,908	5,946	3,816	2,215	1,512	1,611	1,594	1,234	1,083	1,461	2,511	3,801
40th %	4,737	6,320	7,098	4,664	2,871	1,948	2,012	1,928	1,311	1,176	1,800	2,741	4,276
Median	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172	4,736
60th %	6,087	8,759	8,837	6,903	4,055	3,641	2,622	2,237	1,870	1,693	2,478	3,561	5,142
70th %	6,974	11,512	11,053	7,908	4,889	4,253	2,939	2,753	2,412	2,015	2,799	4,579	5,851
80th %	8,382	13,679	13,177	11,493	6,435	4,667	4,421	3,833	3,171	2,249	3,492	6,596	6,503
90th %	12,344	15,016	18,196	17,999	9,564	6,843	6,460	5,338	4,564	3,743	6,175	7,193	7,232
Maximum	18,022	17,330	26,734	27,741	16,701	11,646	16,249	19,777	9,392	17,368	7,922	33,725	11,370
Average	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722	4,894

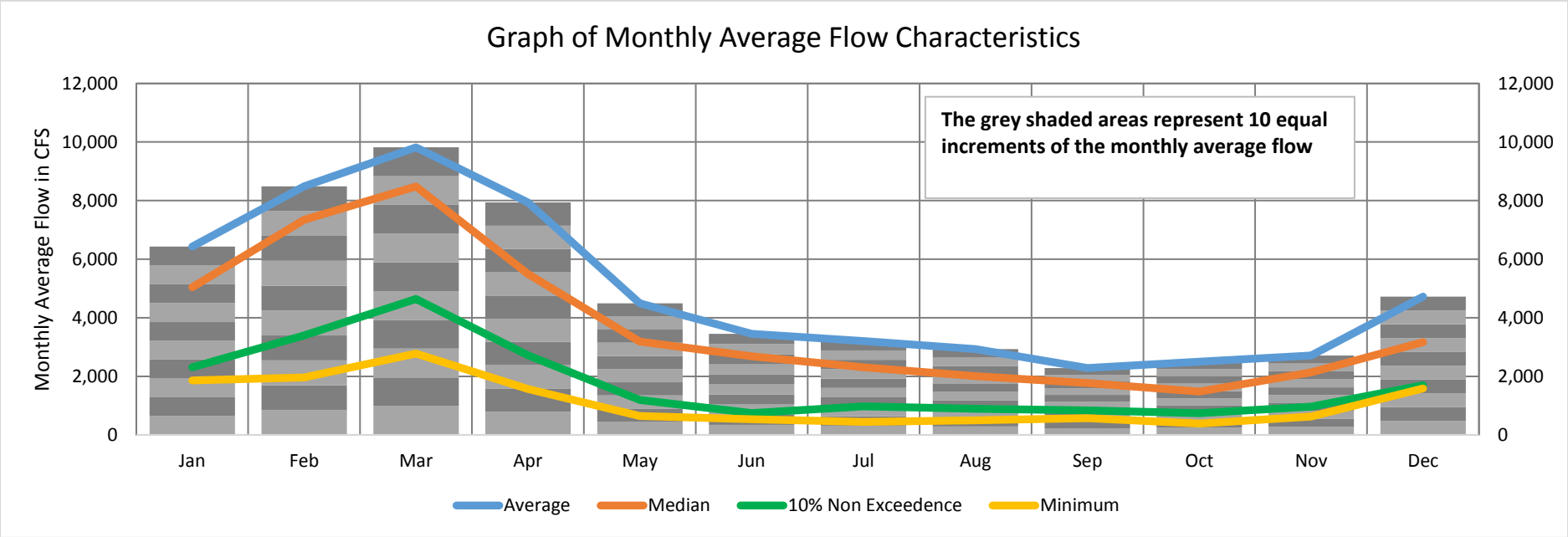
	Flows in CFS
Minimum	387.1
5th %	811
10th %	1,058
15th %	1,252
20th %	1,559
30th %	1,980
40th %	2,544
Median	3,172
60th %	4,341
70th %	5,468
80th %	7,288
90th %	11,410
Maximum	33,725
Average	4,914



Q10/Q50	0.33
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.12
Q5/DA	0.24
Q10/DA	0.32
Q15/DA	0.38
Q20/DA	0.47
Q30/DA	0.59
Q40/DA	0.76
Q50/DA	0.95
Q60/DA	1.30
Q70/DA	1.64
Q80/DA	2.19
Q90/DA	3.42
Qmax/DA	10.11

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

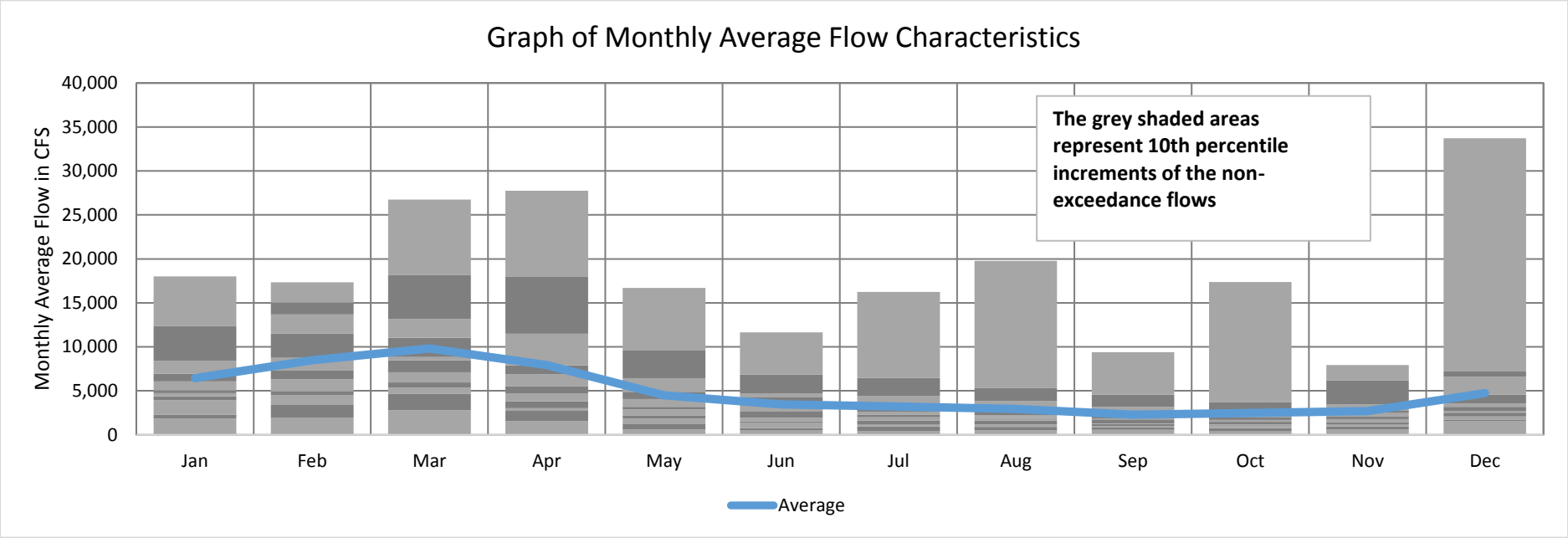
Site #: 03140304 Name: Lower Conecuh River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722
100%	18,022	17,330	26,734	27,741	16,701	11,646	16,249	19,777	9,392	17,368	7,922	33,725
98%	16,935	16,243	25,073	24,672	14,152	11,115	12,861	10,005	6,954	14,341	7,469	17,287
95%	15,736	15,470	23,863	21,534	12,828	8,628	8,103	7,051	5,547	11,389	7,280	9,282
90%	12,344	15,016	18,196	17,999	9,564	6,843	6,460	5,338	4,564	3,743	6,175	7,193
75%	7,687	12,365	11,935	9,656	5,558	4,383	3,422	3,274	2,664	2,039	2,913	5,707
50%	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172
25%	4,301	4,655	5,762	3,574	1,955	1,413	1,508	1,432	1,065	1,054	1,249	2,219
10%	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699
5%	2,171	2,555	2,837	1,945	861	642	855	594	705	702	844	1,651
2%	2,058	2,009	2,794	1,857	758	574	646	536	675	521	698	1,608
0%	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584

Site #: 03140304 Name: Lower Conecuh River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,335 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722
100%	18,022	17,330	26,734	27,741	16,701	11,646	16,249	19,777	9,392	17,368	7,922	33,725
98%	16,935	16,243	25,073	24,672	14,152	11,115	12,861	10,005	6,954	14,341	7,469	17,287
95%	15,736	15,470	23,863	21,534	12,828	8,628	8,103	7,051	5,547	11,389	7,280	9,282
90%	12,344	15,016	18,196	17,999	9,564	6,843	6,460	5,338	4,564	3,743	6,175	7,193
75%	7,687	12,365	11,935	9,656	5,558	4,383	3,422	3,274	2,664	2,039	2,913	5,707
50%	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172
25%	4,301	4,655	5,762	3,574	1,955	1,413	1,508	1,432	1,065	1,054	1,249	2,219
10%	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699
5%	2,171	2,555	2,837	1,945	861	642	855	594	705	702	844	1,651
2%	2,058	2,009	2,794	1,857	758	574	646	536	675	521	698	1,608
0%	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584

Monthly Flows (in CFS) for
03140305 - Big Escambia Creek Subbasin in Alabama

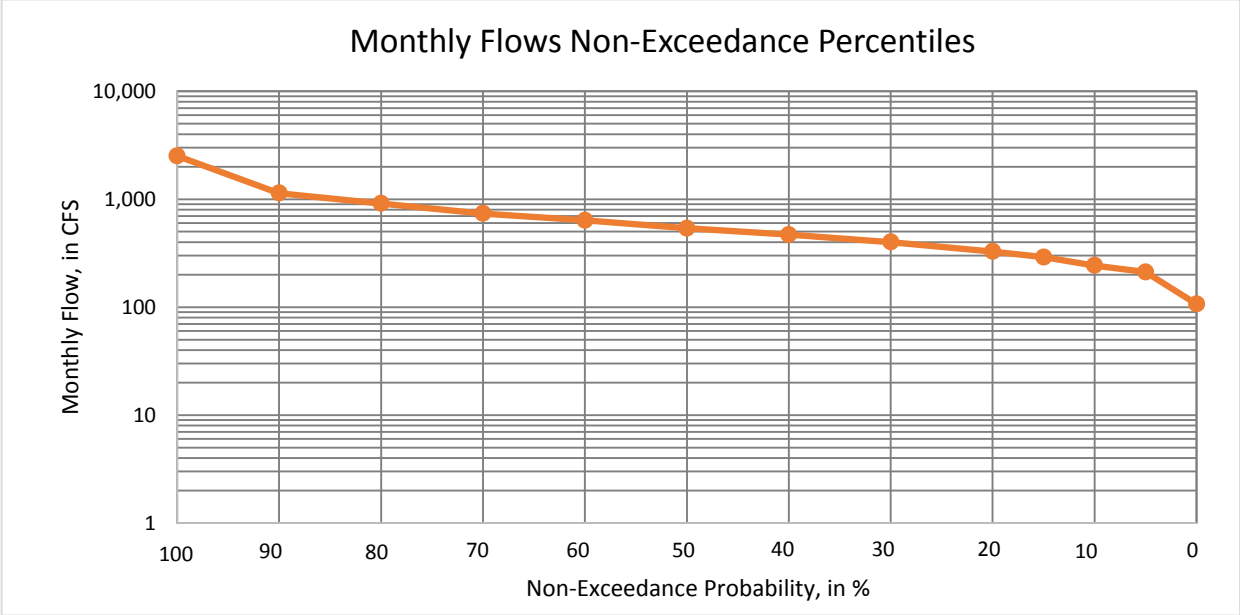
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	993	1,453	1,268	2,074	967	900	937	1,625	934	1,061	808	1,096	1,174
1976	1,284	1,079	1,071	912	1,594	979	669	478	500	399	698	786	870
1977	877	722	1,595	1,014	523	393	480	563	444	381	436	447	657
1978	1,281	773	804	722	1,702	1,207	557	418	292	269	365	587	749
1979	976	1,402	1,756	1,398	683	557	892	574	605	388	575	742	876
1980	897	716	1,487	2,280	1,532	1,363	706	509	543	602	551	523	976
1981	474	1,290	698	537	495	438	276	266	265	205	231	432	462
1982	657	1,133	646	705	507	305	595	594	271	238	386	553	546
1983	670	1,267	1,619	1,827	977	1,022	673	528	478	395	672	875	913
1984	917	921	1,137	907	1,159	486	450	819	299	501	441	559	717
1985	562	1,160	791	494	453	297	683	328	462	423	533	809	580
1986	667	797	997	491	457	298	255	218	264	206	470	544	470
1987	642	923	766	494	456	470	364	414	218	175	404	559	488
1988	923	792	966	535	259	187	331	229	692	343	496	410	512
1989	441	408	774	1,030	533	952	788	339	316	370	596	832	615
1990	1,376	1,648	2,393	969	815	596	526	314	285	298	331	413	827
1991	715	785	1,065	642	981	693	667	408	442	321	468	516	642
1992	1,139	1,384	799	597	372	635	471	397	320	296	1,257	1,155	730
1993	1,069	848	1,026	898	549	403	616	523	451	433	700	602	676
1994	709	735	721	726	505	578	942	434	360	523	453	524	601
1995	679	976	1,102	852	486	393	365	750	243	1,013	670	926	704
1996	1,307	1,564	1,639	1,340	679	663	530	404	540	349	415	496	822
1997	729	942	846	596	569	577	344	284	215	273	542	723	551
1998	1,251	965	1,591	727	360	290	290	231	916	605	395	394	666
1999	513	497	796	448	442	525	562	256	207	280	307	374	434
2000	402	338	371	227	140	179	113	107	137	114	321	402	237
2001	466	447	2,313	777	347	904	385	583	704	544	498	590	715
2002	589	625	875	524	277	209	346	241	374	654	624	776	509
2003	631	860	1,121	879	725	970	1,647	711	473	386	504	648	797
2004	636	1,073	531	371	435	503	367	272	827	892	1,291	1,012	680
2005	932	961	755	1,977	692	1,261	1,449	1,073	912	518	544	617	972
2006	840	873	554	306	404	216	216	243	216	302	598	407	429
2007	751	436	442	472	168	165	220	147	154	239	253	472	326
2008	675	785	562	478	251	188	223	417	230	176	230	453	387
2009	567	352	980	994	928	362	294	384	525	408	730	2,515	758
2010	1,804	1,615	1,239	657	778	431	324	363	228	221	334	382	693
2011	417	713	700	381	179	134	232	160	197	152	211	301	312
2012	347	621	486	261	273	310	219	388	449	239	177	381	344
2013	388	1,644	729	825	470	357	424	364	308	221	268	852	563
2014	643	935	864	1,352	1,102	560	313	291	318	286	342	604	632

Non-Exceedance Percentiles

03140305 - Big Escambia Creek Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	347	338	371	227	140	134	113	107	137	114	177	301	237
5th %	401	405	484	303	179	179	219	159	195	174	229	381	326
10th %	439	446	552	380	258	188	223	228	215	202	250	393	383
15th %	472	603	634	469	277	215	252	239	217	218	301	406	433
20th %	552	695	700	489	357	296	287	253	229	234	329	413	469
30th %	635	762	763	532	440	343	329	289	269	272	380	466	536
40th %	663	795	798	624	465	399	364	354	305	297	427	523	592
Median	694	897	870	724	506	478	437	393	340	346	469	559	649
60th %	787	950	1,008	836	557	558	528	415	446	386	515	603	686
70th %	919	1,075	1,108	909	702	608	601	487	475	412	559	729	721
80th %	1,008	1,271	1,312	1,017	936	900	675	565	540	519	633	814	802
90th %	1,281	1,464	1,621	1,441	1,107	983	896	715	716	610	703	935	879
Maximum	1,804	1,648	2,393	2,280	1,702	1,363	1,647	1,625	934	1,061	1,291	2,515	1,174
Average	796	936	1,022	842	631	549	519	441	415	392	503	657	640

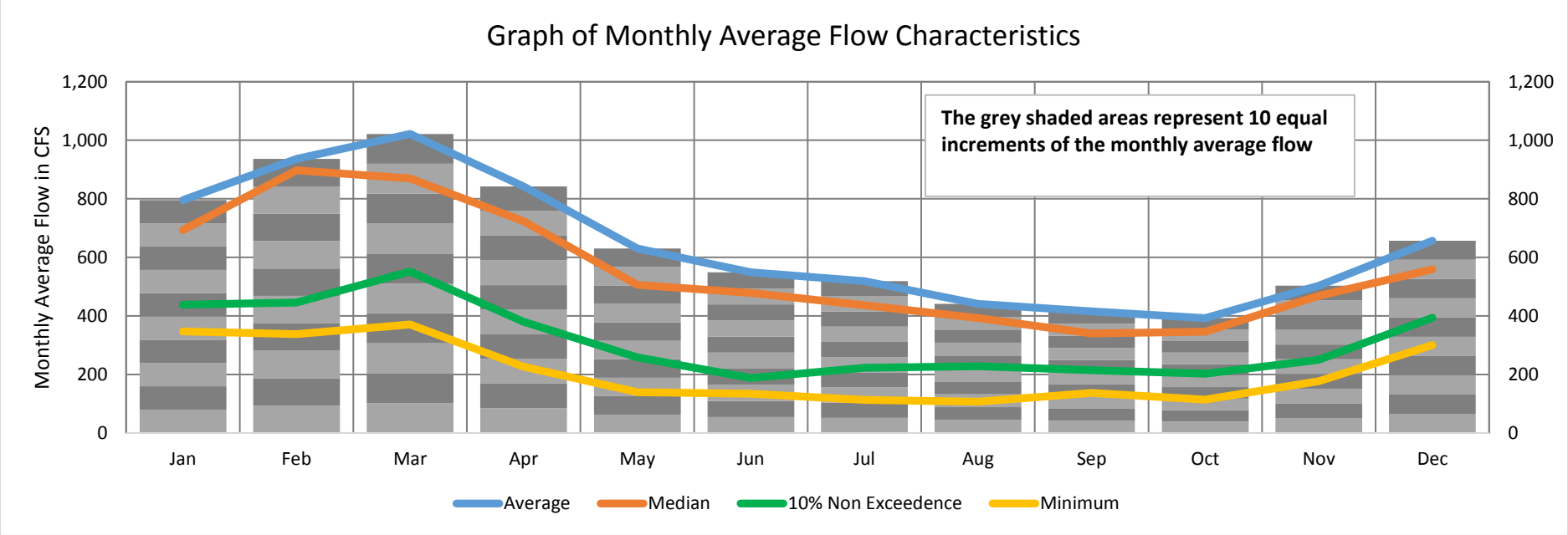
	Flows in CFS
Minimum	106.8
5th %	211
10th %	243
15th %	290
20th %	327
30th %	401
40th %	470
Median	538
60th %	636
70th %	737
80th %	913
90th %	1,137
Maximum	2,515
Average	642



Q10/Q50	0.45
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.32
Q5/DA	0.64
Q10/DA	0.74
Q15/DA	0.88
Q20/DA	0.99
Q30/DA	1.21
Q40/DA	1.42
Q50/DA	1.63
Q60/DA	1.93
Q70/DA	2.23
Q80/DA	2.77
Q90/DA	3.45
Qmax/DA	7.62

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

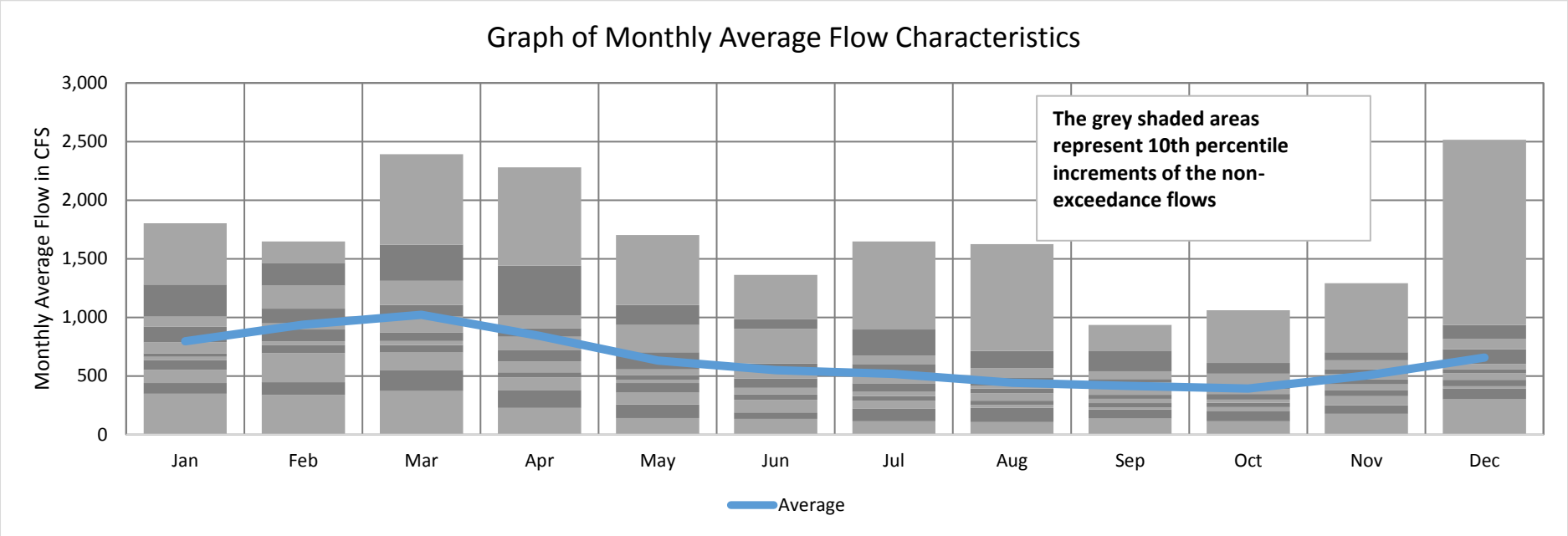
Site #: 03140305 Name: Big Escambia Creek Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	796	936	1,022	842	631	549	519	441	415	392	503	657
100%	1,804	1,648	2,393	2,280	1,702	1,363	1,647	1,625	934	1,061	1,291	2,515
98%	1,470	1,644	2,331	2,119	1,618	1,283	1,493	1,194	920	1,024	1,265	1,454
95%	1,310	1,616	1,784	1,982	1,535	1,210	968	832	913	898	830	1,099
90%	1,281	1,464	1,621	1,441	1,107	983	896	715	716	610	703	935
75%	943	1,140	1,162	975	787	671	668	524	506	450	596	779
50%	694	897	870	724	506	478	437	393	340	346	469	559
25%	583	721	727	494	396	303	308	271	259	239	340	444
10%	439	446	552	380	258	188	223	228	215	202	250	393
5%	401	405	484	303	179	179	219	159	195	174	229	381
2%	379	349	426	253	162	158	193	138	151	144	204	358
0%	347	338	371	227	140	134	113	107	137	114	177	301

Site #: 03140305 Name: Big Escambia Creek Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 330 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	796	936	1,022	842	631	549	519	441	415	392	503	657
100%	1,804	1,648	2,393	2,280	1,702	1,363	1,647	1,625	934	1,061	1,291	2,515
98%	1,470	1,644	2,331	2,119	1,618	1,283	1,493	1,194	920	1,024	1,265	1,454
95%	1,310	1,616	1,784	1,982	1,535	1,210	968	832	913	898	830	1,099
90%	1,281	1,464	1,621	1,441	1,107	983	896	715	716	610	703	935
75%	943	1,140	1,162	975	787	671	668	524	506	450	596	779
50%	694	897	870	724	506	478	437	393	340	346	469	559
25%	583	721	727	494	396	303	308	271	259	239	340	444
10%	439	446	552	380	258	188	223	228	215	202	250	393
5%	401	405	484	303	179	179	219	159	195	174	229	381
2%	379	349	426	253	162	158	193	138	151	144	204	358
0%	347	338	371	227	140	134	113	107	137	114	177	301

Monthly Flows (in CFS) for
03150105 - Upper Coosa River Subbasin

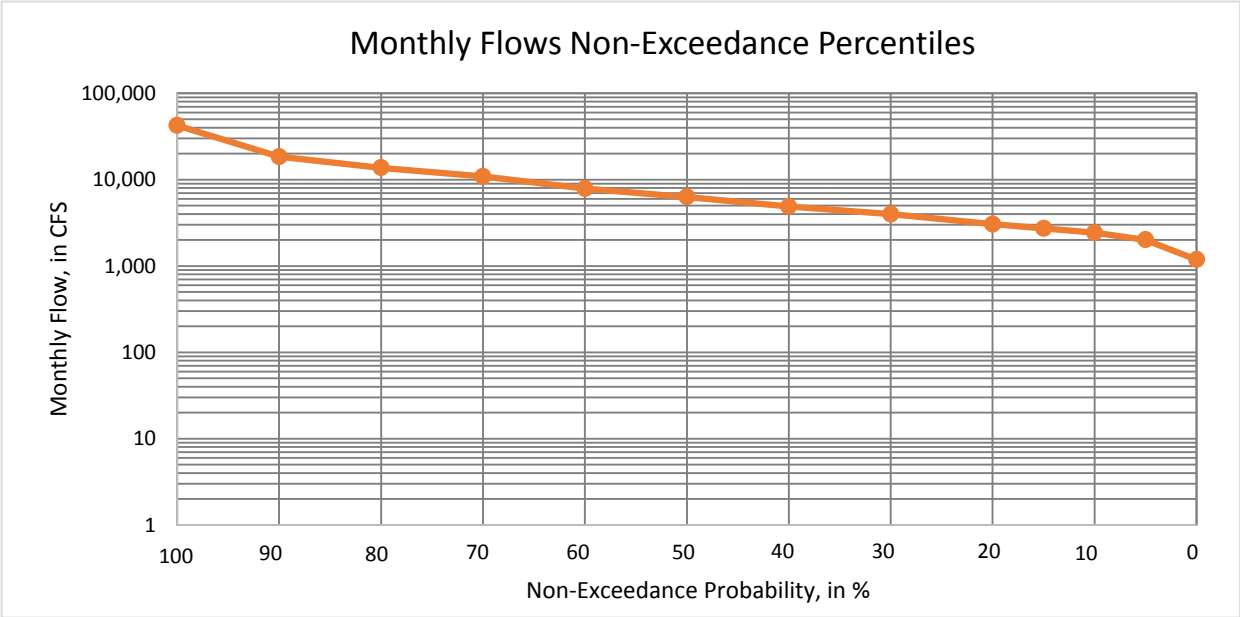
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	15,751	22,680	20,692	13,440	7,618	5,488	4,644	5,825	10,496	12,987	8,906	10,758	11,538
1976	16,619	11,796	23,790	18,292	9,905	7,258	11,787	4,430	3,644	3,595	4,303	2,713	9,844
1977	11,858	7,114	27,249	30,929	6,578	3,860	2,336	3,113	5,040	10,854	17,992	9,950	11,408
1978	19,356	10,353	11,835	5,868	13,143	5,842	2,785	4,236	2,751	2,201	2,725	5,305	7,206
1979	14,579	12,957	30,540	42,322	9,800	7,851	6,545	4,938	8,187	7,723	12,883	6,871	13,729
1980	14,380	13,167	37,939	27,834	16,573	5,883	3,699	2,430	2,958	4,892	4,982	4,556	11,608
1981	2,804	15,361	9,091	11,483	2,671	5,254	3,059	2,084	3,270	2,431	3,067	6,542	5,511
1982	20,905	26,573	13,646	18,663	8,273	5,223	4,321	3,764	2,464	4,007	6,879	25,473	11,597
1983	10,968	18,897	16,039	24,317	15,246	7,238	3,733	2,757	3,339	3,223	10,135	29,829	12,098
1984	17,990	11,386	13,532	15,829	16,833	4,543	6,619	11,650	3,174	4,250	4,433	6,831	9,773
1985	5,423	17,488	6,369	4,536	5,690	2,708	6,643	4,819	2,592	3,750	4,390	5,704	5,772
1986	3,539	5,178	5,142	2,774	1,636	1,841	1,717	1,702	1,910	1,949	8,367	9,567	3,766
1987	14,943	14,154	19,136	6,262	3,487	4,119	3,965	1,819	2,005	2,176	1,845	3,189	6,393
1988	9,726	6,957	4,434	4,700	2,997	1,767	1,440	1,931	5,468	2,968	6,465	4,565	4,429
1989	13,675	9,773	21,461	13,231	6,469	16,837	14,253	4,367	4,920	12,650	11,922	12,414	11,849
1990	22,592	39,046	35,663	8,831	7,234	3,607	3,501	2,767	2,410	3,735	3,746	7,682	11,588
1991	8,825	12,139	14,596	12,644	16,277	6,745	4,780	3,695	3,839	3,222	4,847	7,970	8,281
1992	11,574	13,702	14,739	7,664	3,635	5,573	4,132	5,639	6,352	4,241	17,511	19,294	9,473
1993	24,564	12,123	17,106	10,628	6,979	4,002	3,214	2,487	2,222	1,820	3,083	5,627	7,817
1994	8,823	13,554	17,006	20,067	5,466	4,706	8,068	5,370	5,558	8,909	5,785	13,091	9,676
1995	9,440	18,447	19,054	5,877	4,285	3,124	2,593	2,327	2,596	16,299	15,967	10,975	9,199
1996	18,959	24,404	26,265	11,353	6,098	5,176	3,424	3,724	4,457	3,997	6,669	10,778	10,366
1997	16,419	15,418	19,222	11,233	12,116	13,524	5,441	4,248	3,430	7,447	8,379	9,491	10,506
1998	18,647	26,062	21,457	19,965	8,301	5,173	3,449	3,531	2,505	2,255	3,295	6,091	9,955
1999	12,558	13,897	11,072	5,433	6,378	6,538	8,098	2,845	2,337	2,395	3,728	3,311	6,511
2000	4,838	4,408	8,445	19,664	3,651	2,076	1,913	2,061	1,953	2,099	3,997	3,601	4,874
2001	7,902	10,399	22,812	11,422	4,409	7,797	5,107	4,165	4,702	2,793	3,296	6,888	7,627
2002	12,200	8,417	8,031	8,683	7,624	2,719	2,565	2,194	4,434	5,115	11,989	20,464	7,875
2003	8,310	16,568	19,610	9,950	30,241	12,835	15,854	7,393	3,949	3,832	5,658	6,937	11,762
2004	8,338	14,748	6,598	4,654	5,140	5,012	4,591	3,162	9,984	5,389	18,369	17,732	8,584
2005	7,037	11,752	14,897	16,971	6,454	6,961	13,120	5,494	2,937	2,740	3,672	6,835	8,217
2006	10,759	12,383	9,870	6,765	5,595	2,564	2,127	2,446	1,683	2,950	6,869	4,514	5,669
2007	8,425	4,977	3,974	2,796	2,405	1,577	1,844	2,233	2,007	1,183	1,296	1,211	2,819
2008	2,803	7,703	9,234	5,762	5,592	2,346	1,822	4,389	2,464	2,131	2,231	9,789	4,680
2009	16,415	6,338	16,573	12,272	13,968	3,702	2,716	2,920	11,578	17,352	18,133	24,261	12,242
2010	15,767	19,964	18,646	8,347	8,726	4,732	2,760	2,691	2,027	1,980	2,521	4,173	7,630
2011	5,141	6,742	20,842	14,398	4,145	2,458	2,768	2,480	3,572	2,644	4,555	10,599	6,700
2012	11,837	7,577	11,658	3,594	2,681	1,877	2,321	2,909	2,677	2,947	2,315	7,196	4,970
2013	17,615	19,995	12,306	13,911	20,530	7,309	11,427	7,499	4,522	4,348	4,860	21,058	12,099
2014	14,371	15,097	12,680	18,709	6,880	6,264	3,524	2,454	2,615	3,994	5,148	9,975	8,425

Non-Exceedance Percentiles

03150105 - Upper Coosa River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211	2,819
5th %	3,502	5,168	5,107	3,554	2,658	1,837	1,817	1,926	1,951	1,943	2,212	3,165	4,396
10th %	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572	4,854
15th %	6,795	7,091	8,383	5,323	3,613	2,441	2,292	2,227	2,193	2,169	3,015	4,463	5,430
20th %	8,228	7,678	9,205	5,847	4,046	2,679	2,520	2,409	2,395	2,244	3,252	4,563	5,751
30th %	8,824	10,385	11,782	7,394	5,368	3,673	2,766	2,485	2,566	2,711	3,741	5,975	7,054
40th %	10,884	11,992	13,600	9,503	5,935	4,374	3,340	2,814	2,722	2,961	4,415	6,857	7,852
Median	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439	8,504
60th %	14,374	14,000	17,722	12,879	7,388	5,347	4,207	3,740	3,601	3,996	6,057	9,656	9,715
70th %	15,756	15,378	19,338	14,827	8,428	5,998	4,878	4,284	4,441	4,280	7,326	10,647	10,408
80th %	16,818	18,537	21,458	18,673	12,321	7,016	6,624	4,843	4,944	5,801	10,492	12,549	11,590
90th %	18,999	22,852	26,364	20,492	16,307	7,802	11,463	5,657	6,536	11,034	16,122	20,523	11,874
Maximum	24,564	39,046	37,939	42,322	30,241	16,837	15,854	11,650	11,578	17,352	18,369	29,829	13,729
Average	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845	8,602

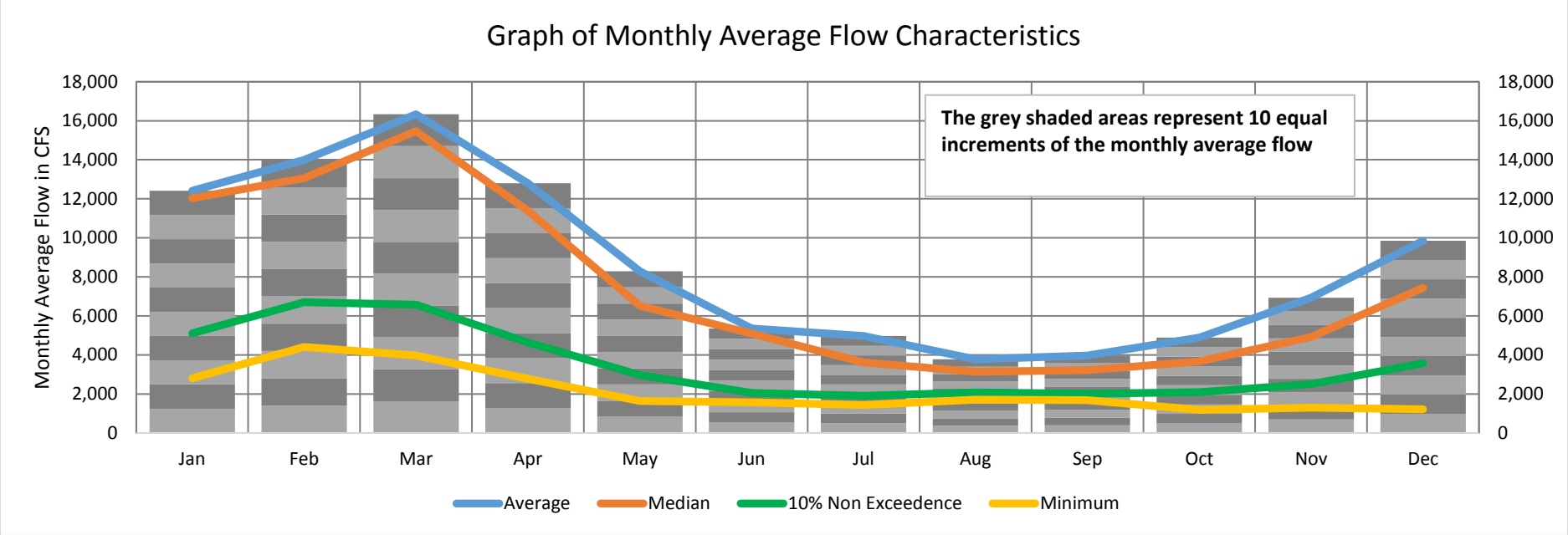
	Flows in CFS
Minimum	1,182.9
5th %	2,006
10th %	2,428
15th %	2,715
20th %	3,047
30th %	3,971
40th %	4,879
Median	6,301
60th %	7,872
70th %	10,888
80th %	13,680
90th %	18,376
Maximum	42,322
Average	8,631



Q10/Q50	0.39
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.21
Q5/DA	0.36
Q10/DA	0.43
Q15/DA	0.49
Q20/DA	0.55
Q30/DA	0.71
Q40/DA	0.87
Q50/DA	1.13
Q60/DA	1.41
Q70/DA	1.95
Q80/DA	2.45
Q90/DA	3.29
Qmax/DA	7.57

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

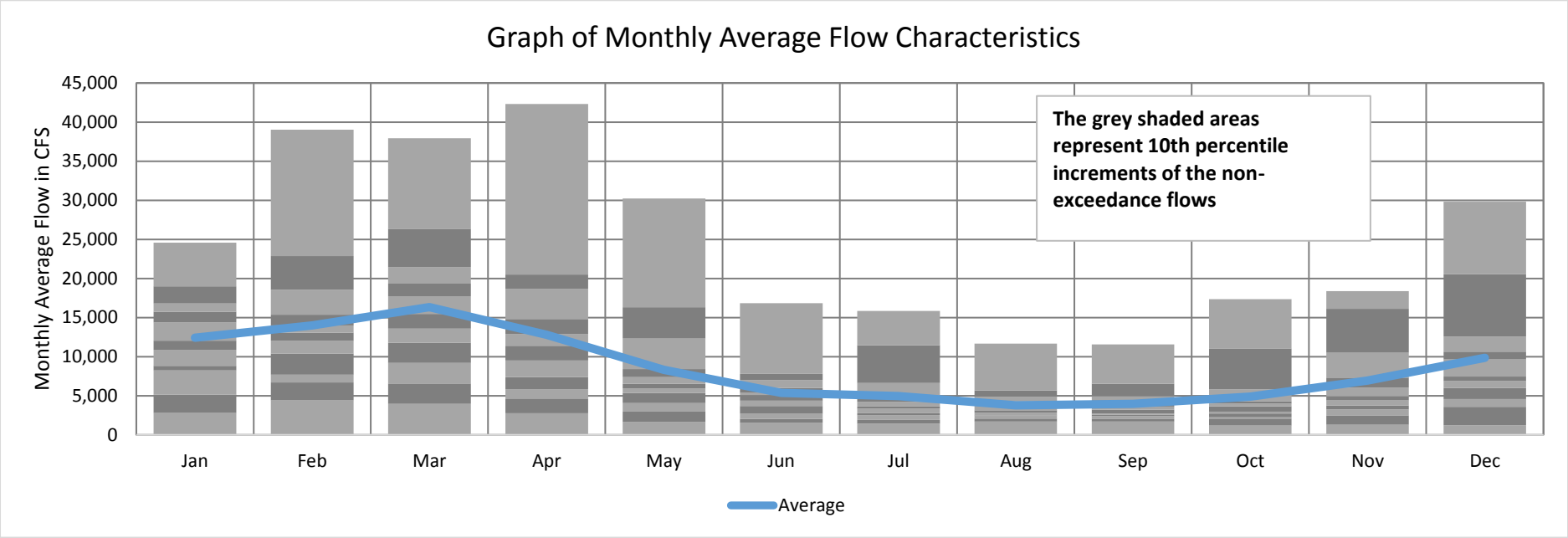
Site #: 03150105 Name: Upper Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845
100%	24,564	39,046	37,939	42,322	30,241	16,837	15,854	11,650	11,578	17,352	18,369	29,829
98%	23,026	29,317	36,164	33,435	22,666	14,253	14,605	8,412	10,734	16,531	18,185	26,431
95%	20,989	26,088	30,796	27,988	17,018	12,869	13,176	7,399	10,010	13,153	17,999	24,322
90%	18,999	22,852	26,364	20,492	16,307	7,802	11,463	5,657	6,536	11,034	16,122	20,523
75%	16,416	16,798	20,730	17,301	9,826	6,590	5,717	4,399	4,567	4,947	8,511	10,827
50%	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439
25%	8,403	9,434	10,771	6,165	4,378	3,023	2,685	2,452	2,464	2,422	3,578	5,546
10%	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572
5%	3,502	5,168	5,107	3,554	2,658	1,837	1,817	1,926	1,951	1,943	2,212	3,165
2%	2,804	4,851	4,333	2,791	2,236	1,725	1,656	1,793	1,860	1,680	1,725	2,383
0%	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211

Site #: 03150105 Name: Upper Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,588 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845
100%	24,564	39,046	37,939	42,322	30,241	16,837	15,854	11,650	11,578	17,352	18,369	29,829
98%	23,026	29,317	36,164	33,435	22,666	14,253	14,605	8,412	10,734	16,531	18,185	26,431
95%	20,989	26,088	30,796	27,988	17,018	12,869	13,176	7,399	10,010	13,153	17,999	24,322
90%	18,999	22,852	26,364	20,492	16,307	7,802	11,463	5,657	6,536	11,034	16,122	20,523
75%	16,416	16,798	20,730	17,301	9,826	6,590	5,717	4,399	4,567	4,947	8,511	10,827
50%	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439
25%	8,403	9,434	10,771	6,165	4,378	3,023	2,685	2,452	2,464	2,422	3,578	5,546
10%	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572
5%	3,502	5,168	5,107	3,554	2,658	1,837	1,817	1,926	1,951	1,943	2,212	3,165
2%	2,804	4,851	4,333	2,791	2,236	1,725	1,656	1,793	1,860	1,680	1,725	2,383
0%	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211

Monthly Flows (in CFS) for
03150106 - Middle Coosa River Subbasin

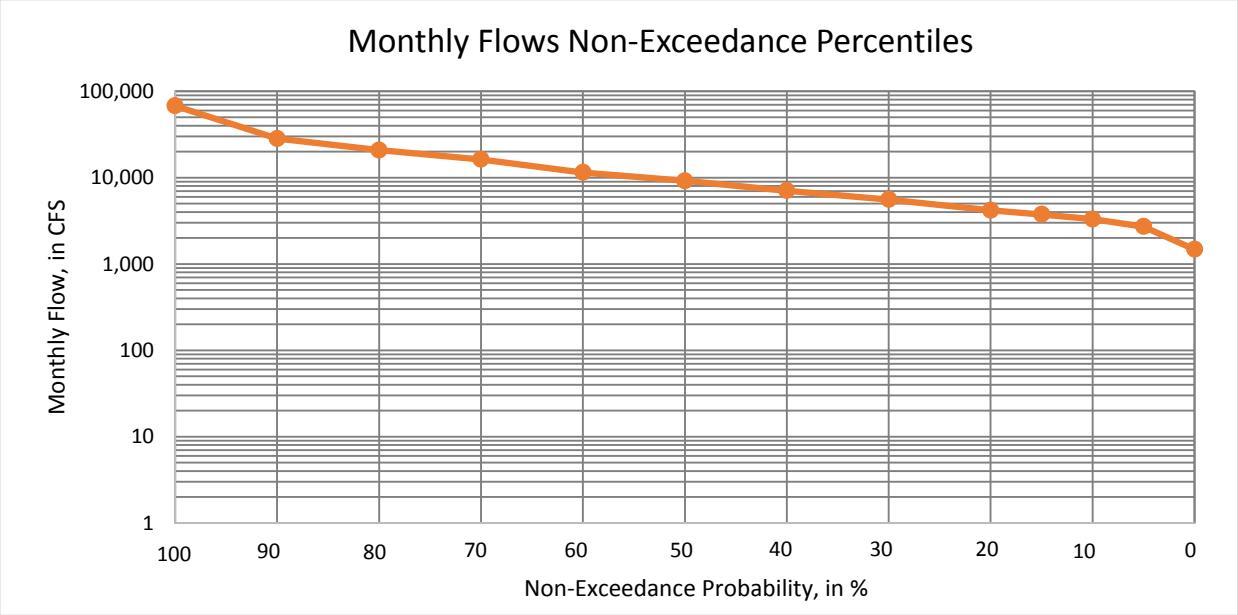
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	27,507	37,379	34,404	19,607	10,026	7,680	8,196	9,878	16,292	20,637	12,633	15,962	18,241
1976	30,788	16,497	40,748	28,167	15,177	9,901	14,252	5,778	4,309	5,064	6,122	3,376	15,034
1977	17,714	10,209	41,629	48,577	9,546	5,433	3,154	4,355	7,378	16,351	27,687	15,049	17,260
1978	29,756	15,614	17,907	8,308	19,691	8,119	3,797	6,045	3,827	2,989	3,774	7,703	10,637
1979	22,459	19,587	47,747	67,665	14,507	11,393	9,592	7,154	12,058	11,347	19,509	10,038	21,028
1980	21,667	19,881	60,471	43,767	25,275	8,416	5,209	3,308	4,095	6,769	7,149	6,536	17,714
1981	3,835	23,801	12,594	16,222	3,481	7,547	4,109	2,747	4,584	3,330	4,313	9,629	7,885
1982	32,434	41,424	20,790	27,990	12,061	7,461	6,120	5,334	3,367	5,711	10,120	39,905	17,592
1983	16,495	29,164	24,496	37,908	23,174	10,418	5,222	3,784	4,685	4,518	15,273	47,111	18,449
1984	27,991	17,025	20,656	23,895	25,759	6,466	9,454	17,063	4,413	6,127	6,386	10,117	14,640
1985	7,779	26,563	9,241	6,383	8,016	3,666	9,599	6,701	3,494	5,303	6,294	8,268	8,332
1986	4,947	7,411	7,294	3,780	2,088	2,430	2,269	2,246	2,534	2,598	12,554	14,541	5,375
1987	22,746	21,533	29,393	9,047	4,792	5,826	5,595	2,379	2,695	2,972	2,439	4,445	9,439
1988	14,447	10,047	6,288	6,568	4,138	2,337	1,832	2,599	8,075	4,197	9,607	6,656	6,367
1989	20,747	14,443	32,981	20,067	9,390	25,332	21,467	6,182	7,097	19,344	17,970	18,736	17,843
1990	34,696	61,660	56,195	13,019	10,625	5,058	4,939	3,835	3,301	5,368	5,357	11,307	17,711
1991	13,139	17,959	22,012	18,864	24,958	9,810	6,843	5,129	5,411	4,534	6,945	11,843	12,263
1992	17,156	20,215	22,385	10,970	4,993	7,930	5,761	8,061	9,211	6,017	26,851	29,655	14,054
1993	37,854	18,003	25,568	15,729	9,953	5,568	4,519	3,369	3,004	2,387	4,277	8,135	11,525
1994	12,997	20,428	25,913	30,846	7,838	6,776	11,787	7,549	7,992	13,312	8,450	19,787	14,435
1995	14,195	28,442	29,169	8,318	6,044	4,353	3,569	3,145	3,504	23,948	24,002	16,407	13,678
1996	28,583	37,983	40,582	17,001	8,784	7,372	4,797	5,161	6,255	5,644	9,622	16,063	15,532
1997	24,644	23,056	29,623	16,441	18,011	20,593	7,718	6,066	4,633	10,992	12,441	13,974	15,646
1998	28,308	40,223	32,975	30,210	12,233	7,292	4,789	4,885	3,421	3,013	4,573	8,762	14,891
1999	18,909	20,870	16,257	7,625	9,329	9,510	12,135	3,950	3,207	3,216	5,275	4,627	9,518
2000	6,881	6,222	12,456	30,532	5,130	2,772	2,563	2,809	2,650	2,863	5,636	5,084	7,105
2001	11,590	15,384	35,046	17,154	6,115	11,326	7,242	5,905	6,759	3,850	4,628	10,197	11,247
2002	18,218	12,418	11,751	12,869	11,103	3,716	3,484	2,943	6,292	7,290	17,969	31,410	11,631
2003	12,271	25,183	29,970	14,761	47,536	19,562	24,193	10,855	5,572	5,442	8,213	10,249	17,820
2004	12,337	22,407	9,507	6,617	7,331	7,247	6,605	4,419	15,045	7,901	28,427	27,368	12,841
2005	10,248	17,690	22,660	25,803	9,361	10,131	19,904	7,947	4,077	3,786	5,187	10,030	12,201
2006	16,110	18,413	14,481	9,702	8,107	3,486	2,864	3,365	2,181	4,109	10,092	6,469	8,219
2007	12,427	7,085	5,507	3,812	3,297	2,063	2,446	3,076	2,743	1,493	1,645	1,474	3,911
2008	3,862	11,333	13,653	8,214	8,071	3,194	2,433	6,404	3,423	2,913	3,056	14,807	6,768
2009	24,922	9,107	25,187	18,553	21,352	5,225	3,778	3,994	17,894	27,033	27,882	38,023	18,670
2010	24,032	30,877	28,461	12,207	12,827	6,748	3,811	3,718	2,711	2,654	3,481	6,033	11,361
2011	7,530	9,967	32,112	22,038	5,914	3,351	3,861	3,447	5,108	3,670	6,513	16,085	9,974
2012	18,067	11,244	17,707	5,077	3,706	2,516	3,188	4,085	3,755	4,102	3,187	10,838	7,297
2013	27,255	30,953	18,633	20,934	32,110	10,831	17,160	11,110	6,325	6,293	6,990	32,607	18,409
2014	21,705	22,798	19,160	28,935	10,052	9,052	4,927	3,325	3,599	5,744	7,489	15,058	12,575

Non-Exceedance Percentiles

03150106 - Middle Coosa River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474	3,911
5th %	4,892	7,395	7,243	5,014	3,472	2,425	2,425	2,588	2,645	2,587	3,025	4,391	6,317
10th %	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038	7,071
15th %	9,878	10,185	12,351	7,474	4,963	3,327	3,111	3,056	2,965	2,963	4,201	6,404	7,796
20th %	12,135	11,316	13,441	8,289	5,757	3,630	3,425	3,275	3,282	3,008	4,521	6,632	8,309
30th %	13,096	15,545	17,847	10,590	7,686	5,175	3,807	3,424	3,473	3,751	5,333	8,614	10,438
40th %	16,341	17,851	20,736	14,064	8,513	6,210	4,681	3,904	3,798	4,162	6,349	10,085	11,589
Median	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073	12,708
60th %	21,682	21,135	26,933	19,161	10,281	7,600	5,904	5,230	4,854	5,670	8,913	14,648	14,517
70th %	24,216	23,279	29,727	22,595	12,411	8,606	7,385	6,051	6,266	6,177	10,816	15,993	15,566
80th %	27,604	28,586	33,265	28,321	18,347	9,947	9,593	6,792	7,153	8,520	15,812	18,946	17,712
90th %	29,860	37,439	40,836	31,552	24,990	11,333	14,542	8,242	9,496	16,650	24,287	31,530	18,258
Maximum	37,854	61,660	60,471	67,665	47,536	25,332	24,193	17,063	17,894	27,033	28,427	47,111	21,028
Average	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859	12,878

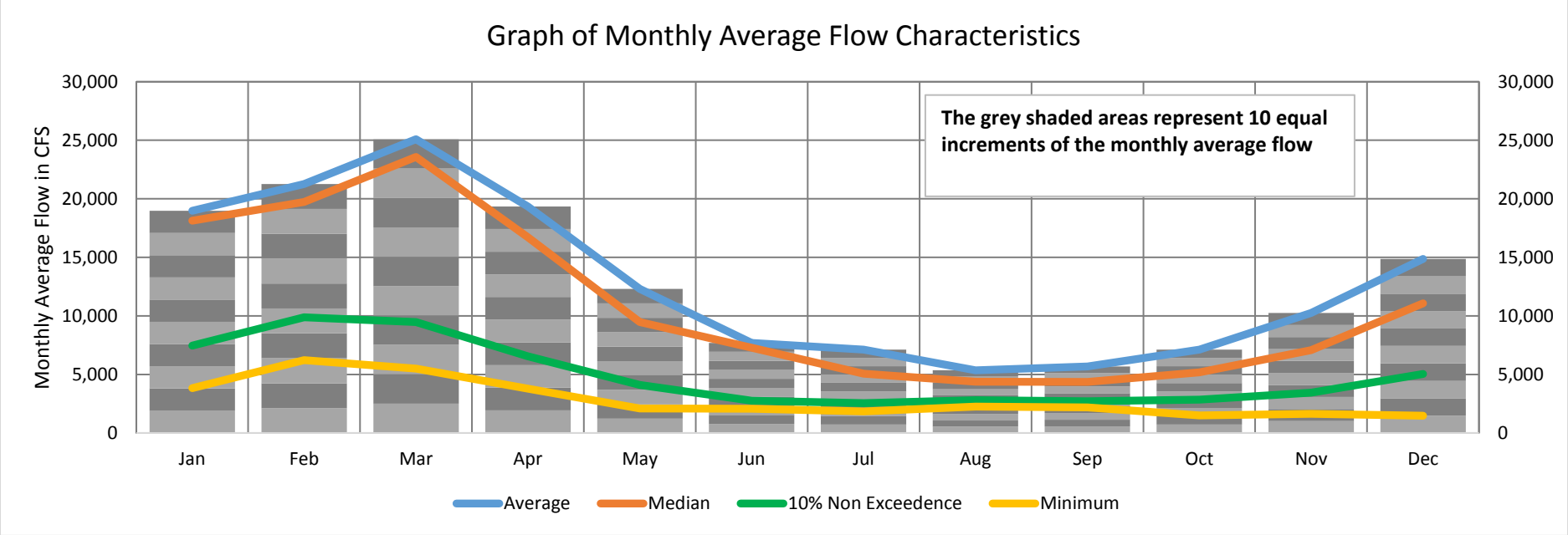
	Flows in CFS
Minimum	1,473.9
5th %	2,710
10th %	3,307
15th %	3,749
20th %	4,185
30th %	5,571
40th %	7,047
Median	9,159
60th %	11,472
70th %	16,232
80th %	20,756
90th %	28,320
Maximum	67,665
Average	12,923



Q10/Q50	0.36
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.18
Q5/DA	0.32
Q10/DA	0.39
Q15/DA	0.45
Q20/DA	0.50
Q30/DA	0.66
Q40/DA	0.84
Q50/DA	1.09
Q60/DA	1.37
Q70/DA	1.93
Q80/DA	2.47
Q90/DA	3.37
Qmax/DA	8.06

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

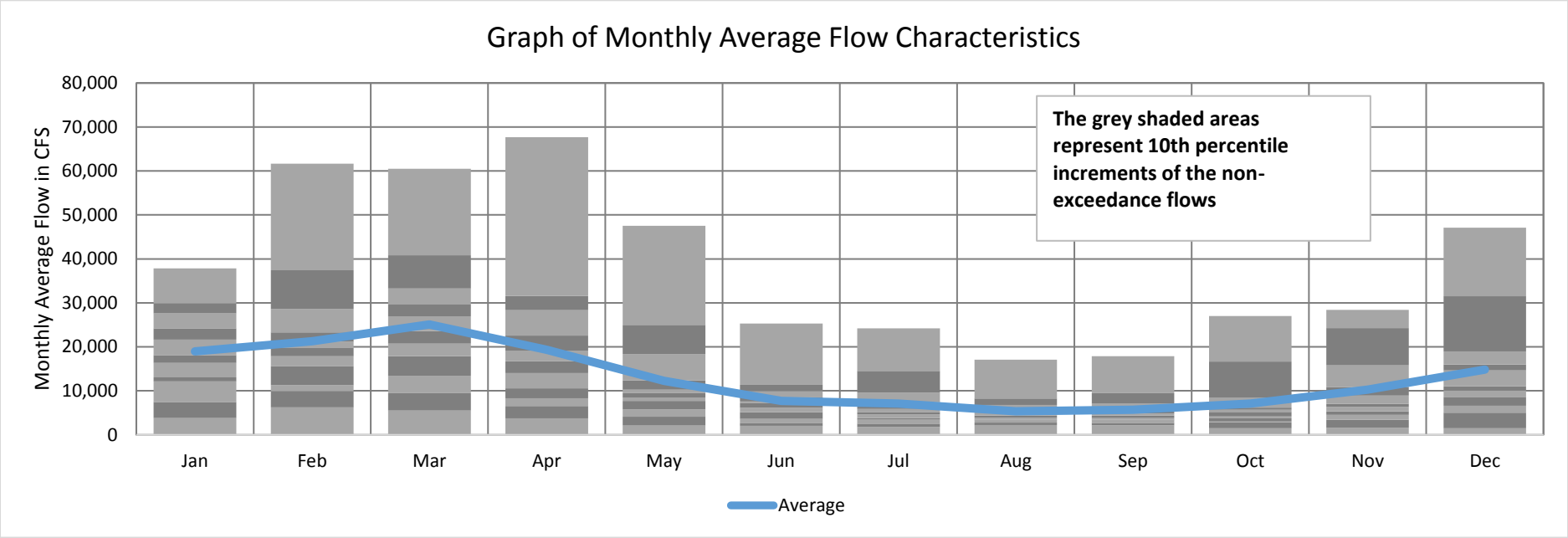
Site #: 03150106 Name: Middle Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859
100%	37,854	61,660	60,471	67,665	47,536	25,332	24,193	17,063	17,894	27,033	28,427	47,111
98%	35,391	45,876	57,135	52,776	35,504	21,636	22,067	12,419	16,644	24,627	28,002	41,490
95%	32,547	40,283	48,170	44,008	26,076	19,614	19,982	10,868	15,107	20,803	27,696	38,117
90%	29,860	37,439	40,836	31,552	24,990	11,333	14,542	8,242	9,496	16,650	24,287	31,530
75%	25,505	25,528	32,327	26,350	14,675	9,585	8,510	6,237	6,434	6,899	12,574	16,166
50%	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073
25%	12,404	13,936	15,813	8,865	6,098	4,194	3,725	3,355	3,408	3,302	5,048	8,027
10%	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038
5%	4,892	7,395	7,243	5,014	3,472	2,425	2,425	2,588	2,645	2,587	3,025	4,391
2%	3,856	6,895	6,116	3,805	3,031	2,276	2,172	2,350	2,456	2,191	2,264	2,958
0%	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474

Site #: 03150106 Name: Middle Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,392 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859
100%	37,854	61,660	60,471	67,665	47,536	25,332	24,193	17,063	17,894	27,033	28,427	47,111
98%	35,391	45,876	57,135	52,776	35,504	21,636	22,067	12,419	16,644	24,627	28,002	41,490
95%	32,547	40,283	48,170	44,008	26,076	19,614	19,982	10,868	15,107	20,803	27,696	38,117
90%	29,860	37,439	40,836	31,552	24,990	11,333	14,542	8,242	9,496	16,650	24,287	31,530
75%	25,505	25,528	32,327	26,350	14,675	9,585	8,510	6,237	6,434	6,899	12,574	16,166
50%	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073
25%	12,404	13,936	15,813	8,865	6,098	4,194	3,725	3,355	3,408	3,302	5,048	8,027
10%	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038
5%	4,892	7,395	7,243	5,014	3,472	2,425	2,425	2,588	2,645	2,587	3,025	4,391
2%	3,856	6,895	6,116	3,805	3,031	2,276	2,172	2,350	2,456	2,191	2,264	2,958
0%	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474

Monthly Flows (in CFS) for
03150107 - Lower Coosa River Subbasin

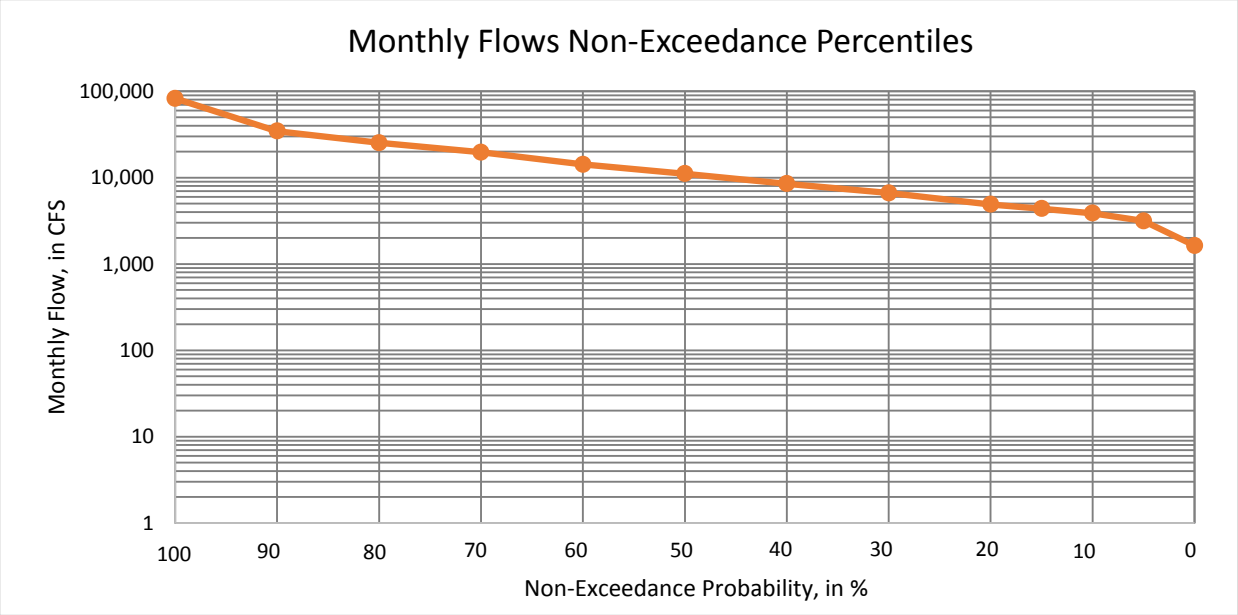
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	33,820	47,220	43,350	29,650	14,130	10,830	12,930	13,900	21,370	25,010	15,490	18,550	23,712
1976	36,800	20,610	57,520	33,180	20,500	12,540	16,050	7,471	5,553	4,760	6,633	14,960	19,765
1977	22,080	14,460	52,370	54,460	10,460	6,088	3,568	4,338	8,986	17,800	29,550	17,200	20,109
1978	36,080	18,770	21,880	10,700	23,860	10,750	4,211	6,916	4,377	3,485	4,445	9,246	12,903
1979	27,280	23,770	58,180	82,520	17,560	13,760	11,550	8,576	14,570	13,700	23,670	12,100	25,530
1980	26,310	24,130	73,730	53,320	30,720	10,120	6,198	3,875	4,837	8,105	8,569	7,820	21,481
1981	4,520	28,920	15,220	19,660	4,087	9,055	4,855	3,190	5,434	3,902	5,103	11,600	9,468
1982	39,470	50,450	25,240	34,040	14,570	8,951	7,311	6,351	3,948	6,811	12,200	48,600	21,331
1983	19,990	35,470	29,770	46,160	28,150	12,560	6,214	4,457	5,558	5,354	18,500	57,400	22,378
1984	34,040	20,640	25,070	29,030	31,310	7,735	11,390	20,680	5,226	7,321	7,637	12,200	17,724
1985	9,339	32,290	11,130	7,633	9,629	4,313	11,560	8,021	4,103	6,313	7,524	9,937	10,014
1986	5,878	8,889	8,746	4,452	2,384	2,802	2,605	2,577	2,929	3,007	15,170	17,600	6,401
1987	27,630	26,150	35,750	10,890	5,689	6,952	6,670	2,740	3,127	3,465	2,813	5,265	11,368
1988	17,490	12,110	7,516	7,859	4,890	2,688	2,071	3,008	9,701	4,961	11,570	7,967	7,613
1989	25,190	17,480	40,140	24,350	11,310	30,790	26,070	7,387	8,505	23,470	21,790	22,730	21,638
1990	42,230	75,180	68,500	15,740	12,820	6,014	5,868	4,519	3,867	6,393	6,379	13,650	21,475
1991	15,890	21,780	26,730	22,880	30,330	11,820	8,195	6,100	6,445	5,374	8,320	14,300	14,817
1992	20,800	24,540	27,190	13,240	5,935	9,523	6,872	9,683	11,090	7,185	32,640	36,070	17,007
1993	46,090	21,830	31,080	19,050	12,000	6,637	5,355	3,949	3,504	2,750	5,059	9,774	13,917
1994	15,720	24,800	31,500	37,530	9,411	8,113	14,240	9,058	9,599	16,100	10,160	24,010	17,473
1995	17,180	34,590	35,480	9,997	7,219	5,152	4,194	3,675	4,115	29,100	29,160	19,880	16,547
1996	34,760	46,250	49,420	20,610	10,570	8,842	5,695	6,140	7,477	6,729	11,590	19,460	18,813
1997	29,950	28,010	36,030	19,920	21,840	25,000	9,265	7,246	5,494	13,270	15,040	16,910	18,953
1998	34,430	48,990	40,130	36,750	14,780	8,744	5,685	5,803	4,013	3,515	5,421	10,540	18,030
1999	22,940	25,340	19,700	9,150	11,230	11,450	14,660	4,659	3,751	3,763	6,279	5,486	11,463
2000	8,241	7,437	15,050	37,140	6,101	3,220	2,965	3,266	3,072	3,332	6,720	6,045	8,515
2001	14,000	18,630	42,660	20,800	7,306	13,670	8,682	7,049	8,093	4,537	5,489	12,290	13,577
2002	22,100	15,010	14,190	15,560	13,400	4,374	4,090	3,430	7,522	8,741	21,790	38,220	14,046
2003	14,830	30,610	36,460	17,870	57,920	23,740	29,400	13,100	6,642	6,484	9,870	12,360	21,611
2004	14,910	27,210	11,450	7,919	8,792	8,688	7,904	5,233	18,220	9,488	34,570	33,280	15,525
2005	12,360	21,450	27,520	31,360	11,270	12,210	24,160	9,544	4,815	4,459	6,172	12,090	14,742
2006	19,520	22,330	17,530	11,690	9,740	4,093	3,333	3,945	2,498	4,854	12,170	7,738	9,877
2007	15,020	8,490	6,563	4,491	3,861	2,353	2,822	3,592	3,184	1,657	1,843	1,634	4,612
2008	4,552	13,680	16,520	9,871	9,696	3,736	2,806	7,659	4,015	3,392	3,567	17,930	8,104
2009	30,290	10,960	30,610	22,500	25,930	6,218	4,449	4,714	21,700	32,870	33,910	46,300	22,649
2010	29,200	37,560	34,610	14,750	15,510	8,078	4,490	4,376	3,146	3,075	4,087	7,206	13,715
2011	9,035	12,010	39,070	26,760	7,060	3,927	4,551	4,045	6,075	4,318	7,792	19,490	12,021
2012	21,910	13,570	21,470	6,037	4,362	2,907	3,729	4,824	4,421	4,845	3,727	13,080	8,749
2013	33,140	37,660	22,600	25,410	39,070	13,070	20,800	13,410	7,562	7,523	8,375	39,679	22,328
2014	26,357	27,692	23,246	35,192	12,116	10,894	5,854	3,896	4,231	6,853	8,984	18,234	15,199

Non-Exceedance Percentiles

03150107 - Lower Coosa River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634	4,612
5th %	5,812	8,869	8,685	5,960	4,076	2,796	2,796	2,995	3,065	2,994	3,529	5,475	7,552
10th %	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090	8,473
15th %	11,907	13,351	14,921	8,965	5,898	3,898	3,533	3,568	3,456	3,454	4,967	7,808	9,360
20th %	14,664	14,304	16,260	9,972	6,868	4,269	4,018	3,835	3,844	3,509	5,357	8,990	9,987
30th %	15,839	18,728	21,757	12,775	9,225	6,066	4,478	4,016	4,077	4,417	6,349	11,282	12,639
40th %	19,802	21,648	25,172	17,018	10,172	7,422	5,553	4,494	4,403	4,850	7,592	12,254	13,995
Median	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975	15,362
60th %	26,329	25,664	32,744	23,468	13,052	9,242	7,048	6,224	5,765	6,762	10,724	17,360	17,573
70th %	29,425	28,283	36,159	29,216	14,999	10,849	8,857	7,288	7,491	7,382	13,052	18,823	19,196
80th %	33,864	34,766	40,644	34,270	22,244	12,276	11,834	8,132	8,601	10,244	19,158	22,986	21,476
90th %	36,152	46,347	52,885	38,393	30,369	13,679	16,525	10,025	11,438	18,367	29,199	38,366	22,333
Maximum	46,090	75,180	73,730	82,520	57,920	30,790	29,400	20,680	21,700	32,870	34,570	57,400	25,530
Average	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221	15,630

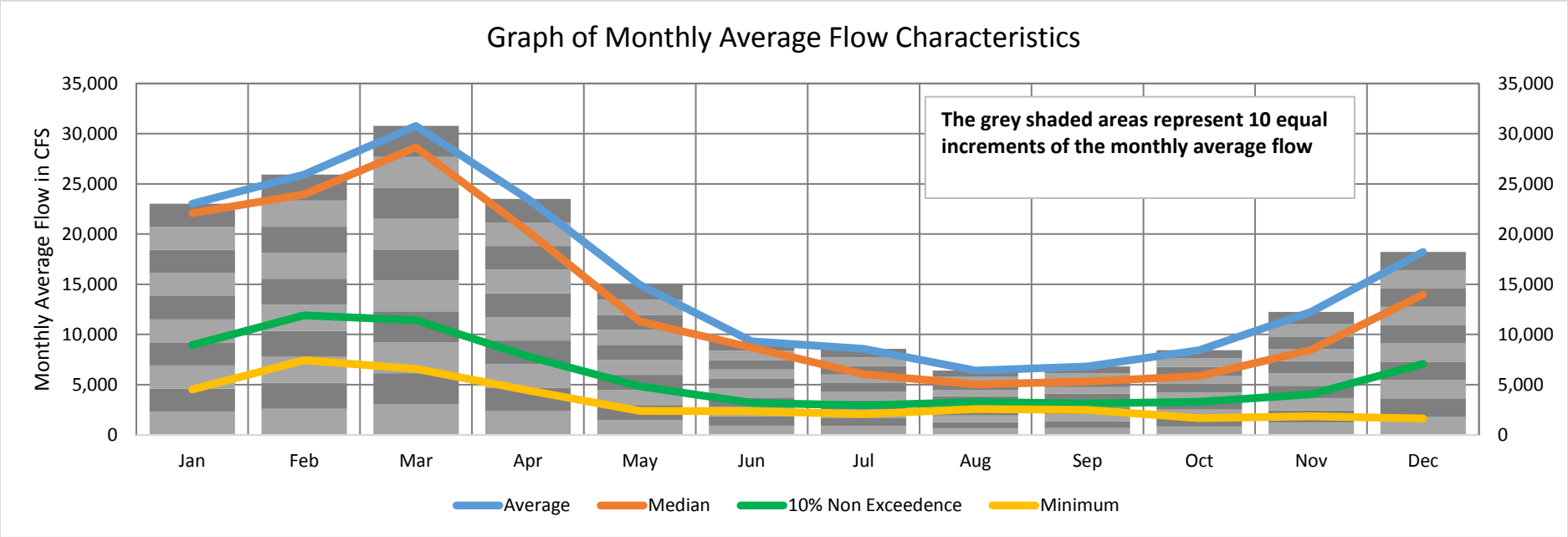
	Flows in CFS
Minimum	1,634.0
5th %	3,145
10th %	3,874
15th %	4,376
20th %	4,883
30th %	6,641
40th %	8,499
Median	11,110
60th %	14,210
70th %	19,672
80th %	25,260
90th %	34,444
Maximum	82,520
Average	15,684



Q10/Q50	0.35
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.16
Q5/DA	0.31
Q10/DA	0.38
Q15/DA	0.43
Q20/DA	0.48
Q30/DA	0.66
Q40/DA	0.84
Q50/DA	1.10
Q60/DA	1.41
Q70/DA	1.95
Q80/DA	2.50
Q90/DA	3.41
Qmax/DA	8.17

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

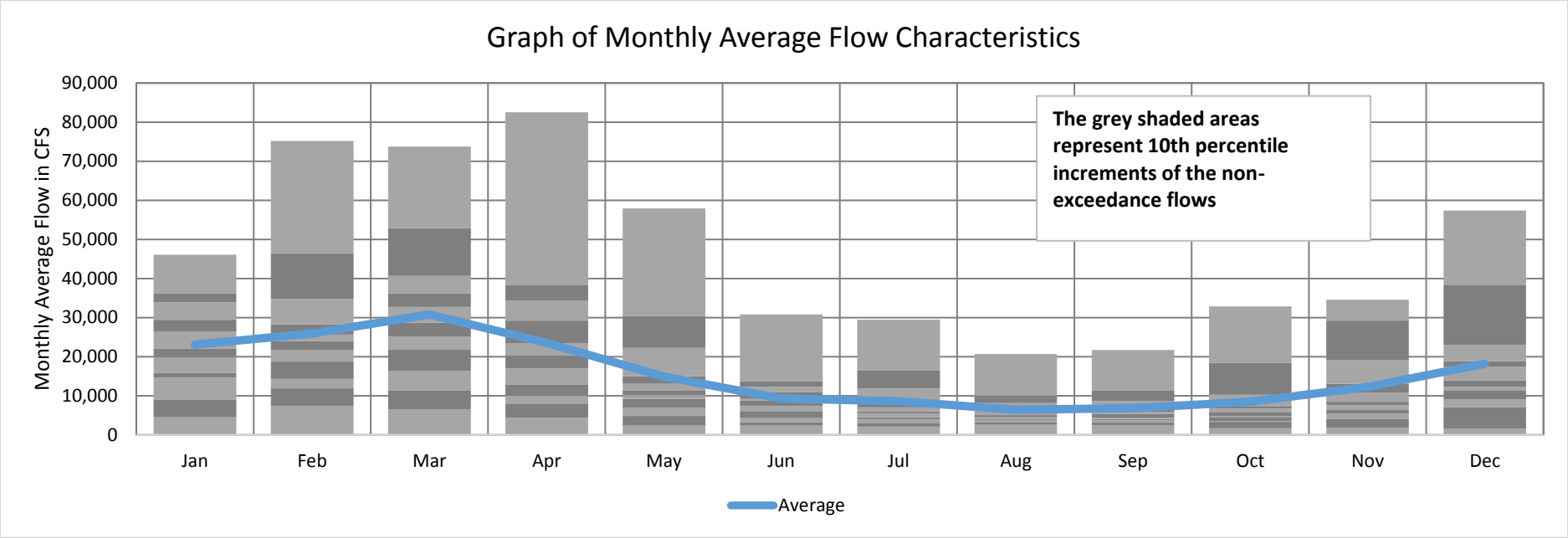
Site #: 03150107 Name: Lower Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221
100%	46,090	75,180	73,730	82,520	57,920	30,790	29,400	20,680	21,700	32,870	34,570	57,400
98%	43,079	55,891	69,651	60,633	43,217	26,274	26,803	15,392	21,443	29,929	34,055	50,536
95%	39,608	49,063	58,696	53,377	31,698	23,803	24,256	13,435	18,378	25,215	32,704	46,415
90%	36,152	46,347	52,885	38,393	30,369	13,679	16,525	10,025	11,438	18,367	29,199	38,366
75%	31,003	31,030	39,335	31,815	18,295	11,543	11,430	7,518	7,695	8,264	15,250	19,588
50%	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975
25%	14,993	16,863	19,158	10,843	7,284	4,958	4,207	3,933	3,997	3,867	6,001	9,896
10%	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090
5%	5,812	8,869	8,685	5,960	4,076	2,796	2,796	2,995	3,065	2,994	3,529	5,475
2%	4,545	8,258	7,306	4,482	3,536	2,614	2,488	2,704	2,834	2,510	2,600	4,466
0%	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634

Site #: 03150107 Name: Lower Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 10,102 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221
100%	46,090	75,180	73,730	82,520	57,920	30,790	29,400	20,680	21,700	32,870	34,570	57,400
98%	43,079	55,891	69,651	60,633	43,217	26,274	26,803	15,392	21,443	29,929	34,055	50,536
95%	39,608	49,063	58,696	53,377	31,698	23,803	24,256	13,435	18,378	25,215	32,704	46,415
90%	36,152	46,347	52,885	38,393	30,369	13,679	16,525	10,025	11,438	18,367	29,199	38,366
75%	31,003	31,030	39,335	31,815	18,295	11,543	11,430	7,518	7,695	8,264	15,250	19,588
50%	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975
25%	14,993	16,863	19,158	10,843	7,284	4,958	4,207	3,933	3,997	3,867	6,001	9,896
10%	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090
5%	5,812	8,869	8,685	5,960	4,076	2,796	2,796	2,995	3,065	2,994	3,529	5,475
2%	4,545	8,258	7,306	4,482	3,536	2,614	2,488	2,704	2,834	2,510	2,600	4,466
0%	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634

Monthly Flows (in CFS) for

03150108 - Upper Tallapoosa River Subbasin

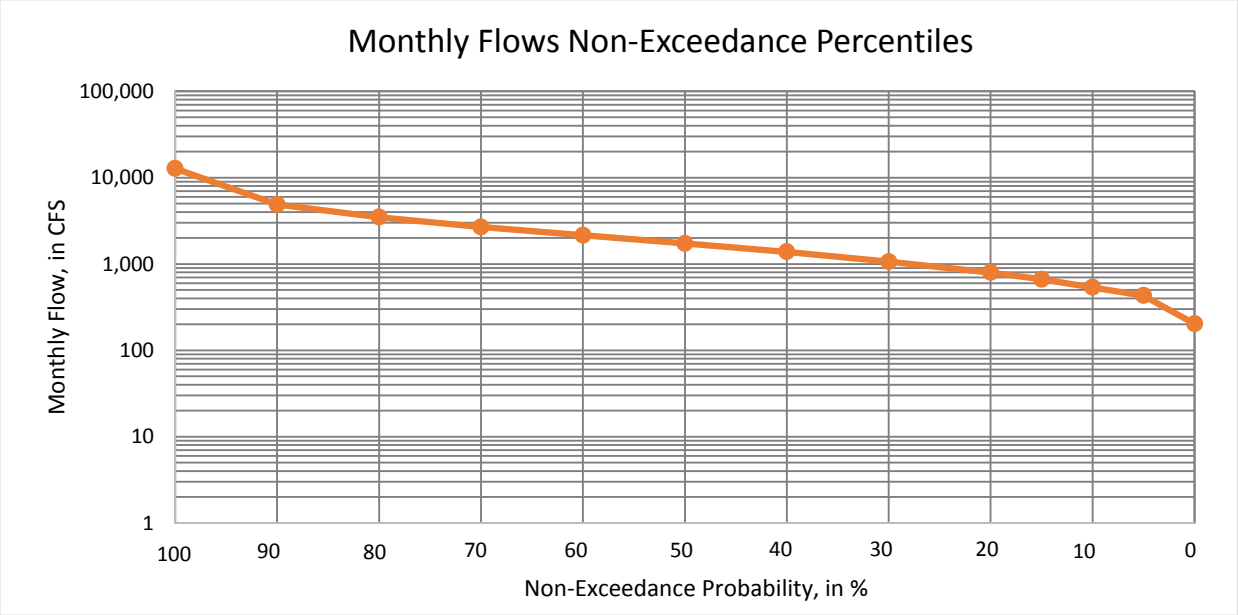
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,172	7,009	8,277	5,221	3,240	2,868	3,153	3,402	3,463	4,734	2,894	2,687	4,245
1976	6,175	3,098	9,622	5,580	3,931	2,227	2,038	1,010	832	806	1,061	2,285	3,232
1977	3,129	2,378	9,089	7,541	1,945	1,110	783	492	567	1,634	2,768	1,563	2,750
1978	4,917	2,125	2,742	2,184	4,364	2,340	891	1,050	441	308	399	923	1,894
1979	2,639	3,373	6,909	12,726	3,169	2,934	1,437	878	2,020	1,837	2,784	1,733	3,521
1980	4,069	3,385	9,192	6,498	4,573	1,913	881	526	568	1,146	861	876	2,874
1981	790	3,958	2,541	2,551	1,991	1,196	736	519	471	379	470	1,099	1,373
1982	3,654	7,971	2,684	5,846	2,707	2,259	1,438	1,024	507	1,036	287	2,185	2,594
1983	3,206	4,821	5,138	6,398	3,697	1,979	1,098	818	302	474	2,371	7,211	3,116
1984	3,729	3,458	3,647	3,105	4,438	1,260	1,423	3,768	1,215	766	953	1,540	2,442
1985	1,679	4,130	1,993	666	2,368	811	1,568	1,362	1,382	1,020	1,562	1,413	1,649
1986	1,117	1,425	1,914	510	426	491	570	593	797	245	1,173	1,583	901
1987	4,023	2,768	5,072	1,460	1,166	1,608	1,416	794	554	312	703	671	1,710
1988	2,232	2,139	1,156	556	893	721	496	627	1,234	1,160	1,619	928	1,140
1989	1,783	1,762	3,248	3,003	1,826	4,054	3,540	1,493	1,137	2,910	2,480	2,860	2,512
1990	5,296	9,407	11,454	2,169	1,886	1,147	1,163	547	319	319	911	875	2,925
1991	1,640	3,420	3,271	2,619	4,249	2,589	1,969	1,449	835	954	2,649	2,109	2,305
1992	3,436	4,943	3,926	2,115	1,284	1,758	1,041	1,522	1,317	1,276	5,414	5,517	2,780
1993	5,854	3,905	5,277	2,760	2,542	1,499	1,100	826	717	261	982	1,345	2,251
1994	1,379	3,165	3,836	2,972	1,358	1,511	3,910	2,309	1,332	1,983	2,091	2,658	2,373
1995	1,971	6,371	5,444	1,686	1,214	1,370	836	585	477	4,858	4,296	2,639	2,622
1996	4,564	7,286	7,401	2,444	1,833	1,448	947	1,152	783	1,225	1,476	2,272	2,712
1997	4,325	4,532	6,065	2,005	1,944	3,177	2,591	1,725	812	1,566	1,959	2,623	2,771
1998	4,229	7,158	8,369	4,370	2,476	1,645	1,329	1,534	812	581	1,062	1,080	2,862
1999	2,293	2,425	2,616	745	1,298	1,376	2,030	666	557	482	437	794	1,307
2000	1,292	1,403	1,544	2,913	659	731	618	537	503	430	743	819	1,011
2001	2,089	2,419	6,441	3,376	1,662	2,356	1,303	1,136	883	713	522	1,002	1,990
2002	2,722	1,854	1,592	1,295	1,775	664	783	789	1,407	2,067	3,888	5,357	2,019
2003	2,560	4,104	4,709	2,667	12,357	4,187	5,226	2,303	1,375	1,012	2,324	1,893	3,735
2004	1,964	3,620	1,704	1,328	1,372	1,385	1,529	880	2,778	1,522	3,907	3,413	2,102
2005	2,241	3,624	4,453	4,482	2,216	2,258	6,112	2,649	1,264	862	1,472	1,934	2,795
2006	3,152	4,432	3,614	1,452	1,916	830	722	819	458	890	2,278	1,159	1,795
2007	2,300	1,631	1,304	520	371	506	603	373	366	262	203	233	719
2008	301	2,263	2,141	1,468	1,586	659	601	848	664	615	445	1,921	1,120
2009	1,946	1,608	3,897	2,997	3,192	1,075	885	607	2,702	4,753	5,576	7,288	3,055
2010	5,419	5,747	6,473	1,710	3,275	1,892	1,020	584	415	873	1,126	1,026	2,449
2011	1,262	1,926	4,605	2,475	1,031	805	547	537	323	747	1,795	1,757	1,482
2012	3,563	2,044	4,458	449	454	619	431	285	268	425	740	1,894	1,305
2013	3,400	5,177	3,463	2,601	4,922	2,463	3,916	2,419	1,400	1,821	1,750	6,002	3,276
2014	3,292	3,544	3,446	5,072	2,462	2,130	1,113	751	448	857	1,602	2,713	2,275

Non-Exceedance Percentiles

03150108 - Upper Tallapoosa River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	301	1,403	1,156	449	371	491	431	285	268	245	203	233	719
5th %	1,100	1,599	1,532	520	453	613	544	487	318	262	394	787	1,005
10th %	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870	1,138
15th %	1,600	1,915	1,981	1,212	1,146	730	616	537	437	370	514	916	1,306
20th %	1,762	2,109	2,461	1,427	1,270	810	733	576	456	429	732	987	1,460
30th %	2,054	2,407	3,096	1,703	1,522	1,136	868	621	506	605	941	1,141	1,864
40th %	2,297	3,138	3,554	2,178	1,830	1,373	991	792	568	790	1,100	1,554	2,191
Median	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825	2,408
60th %	3,335	3,737	4,647	2,821	2,406	1,812	1,364	1,016	833	1,026	1,768	2,004	2,605
70th %	3,677	4,220	5,327	3,034	2,846	2,159	1,466	1,215	1,220	1,240	2,292	2,387	2,774
80th %	4,183	4,990	6,560	4,600	3,359	2,343	2,031	1,524	1,340	1,671	2,673	2,692	2,884
90th %	4,955	7,024	8,441	5,901	4,371	2,875	3,577	2,320	1,468	2,151	3,890	5,373	3,236
Maximum	6,175	9,407	11,454	12,726	12,357	4,187	6,112	3,768	3,463	4,858	5,576	7,288	4,245
Average	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247	2,300

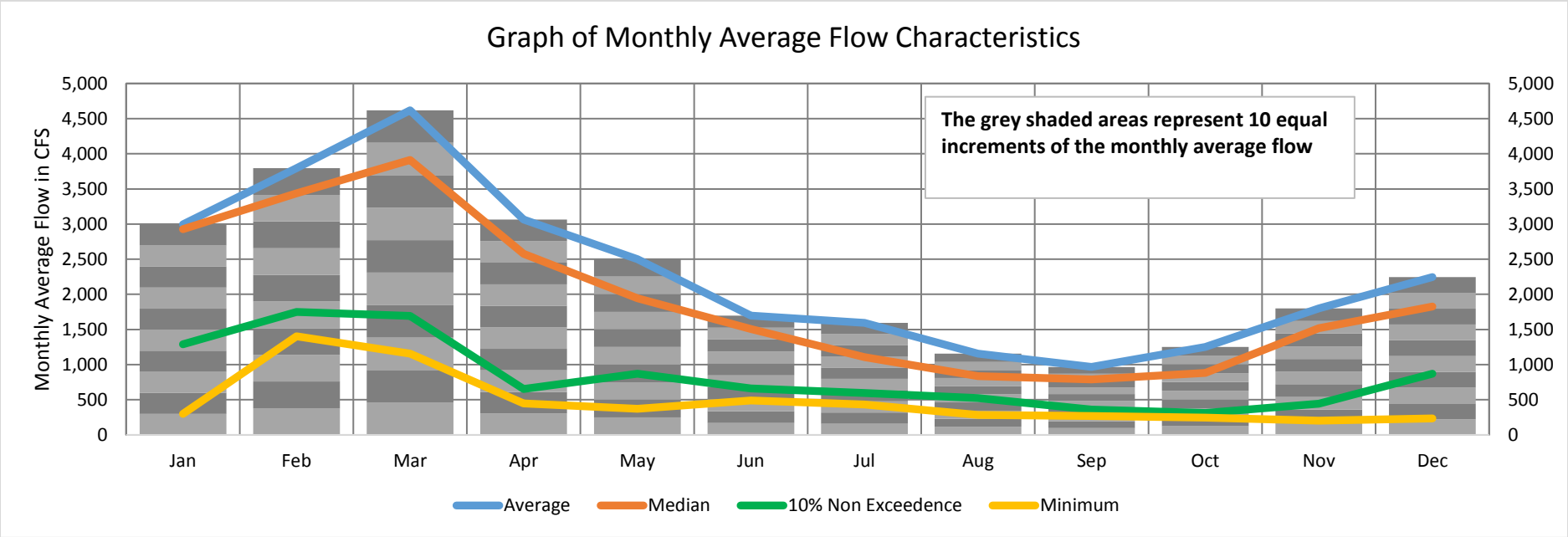
	Flows in CFS
Minimum	202.8
5th %	431
10th %	536
15th %	664
20th %	796
30th %	1,061
40th %	1,381
Median	1,729
60th %	2,152
70th %	2,672
80th %	3,479
90th %	4,864
Maximum	12,726
Average	2,307



Q10/Q50	0.31
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.14
Q5/DA	0.30
Q10/DA	0.37
Q15/DA	0.46
Q20/DA	0.55
Q30/DA	0.73
Q40/DA	0.95
Q50/DA	1.19
Q60/DA	1.48
Q70/DA	1.84
Q80/DA	2.39
Q90/DA	3.35
Qmax/DA	8.75

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

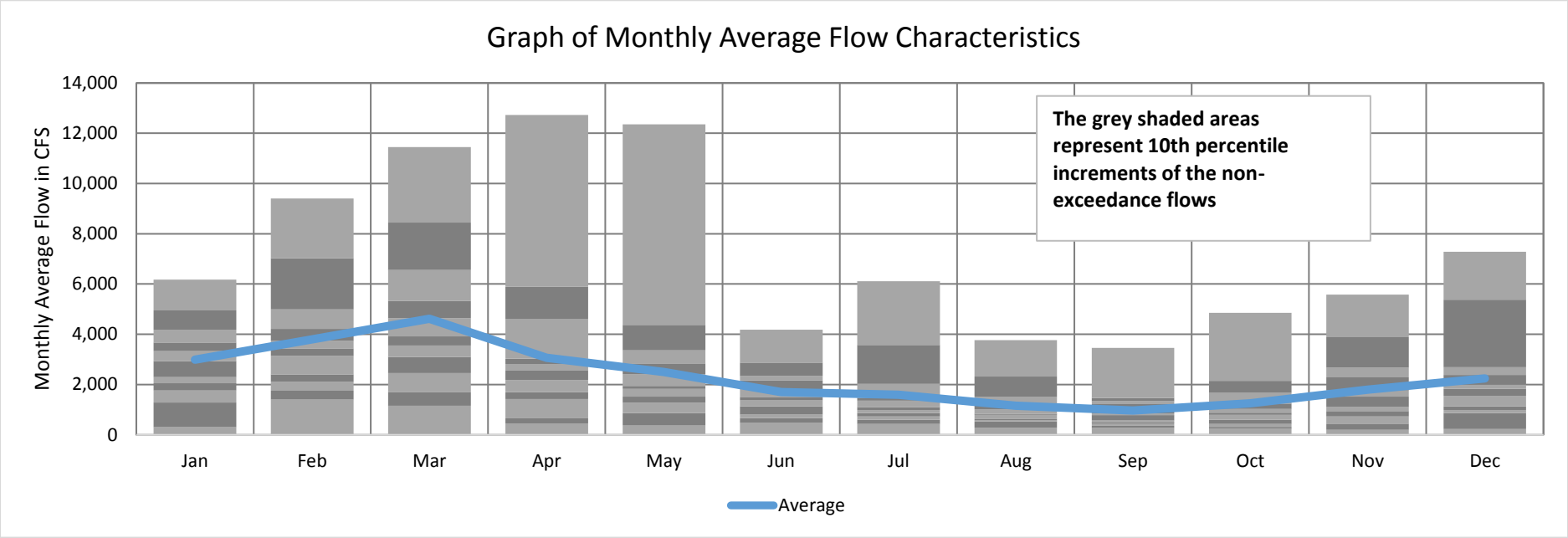
Site #: 03150108 Name: Upper Tallapoosa River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247
100%	6,175	9,407	11,454	12,726	12,357	4,187	6,112	3,768	3,463	4,858	5,576	7,288
98%	5,924	8,287	10,025	8,682	6,557	4,083	5,421	3,483	2,929	4,776	5,450	7,228
95%	5,441	7,320	9,214	6,550	4,591	3,221	3,982	2,687	2,706	4,735	4,352	6,063
90%	4,955	7,024	8,441	5,901	4,371	2,875	3,577	2,320	1,468	2,151	3,890	5,373
75%	4,035	4,604	6,159	3,624	3,204	2,258	1,668	1,460	1,277	1,533	2,398	2,643
50%	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825
25%	1,959	2,232	2,667	1,466	1,343	1,014	783	591	475	480	832	1,066
10%	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870
5%	1,100	1,599	1,532	520	453	613	544	487	318	262	394	787
2%	683	1,421	1,272	497	414	503	482	354	295	258	268	575
0%	301	1,403	1,156	449	371	491	431	285	268	245	203	233

Site #: 03150108 Name: Upper Tallapoosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,454 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247
100%	6,175	9,407	11,454	12,726	12,357	4,187	6,112	3,768	3,463	4,858	5,576	7,288
98%	5,924	8,287	10,025	8,682	6,557	4,083	5,421	3,483	2,929	4,776	5,450	7,228
95%	5,441	7,320	9,214	6,550	4,591	3,221	3,982	2,687	2,706	4,735	4,352	6,063
90%	4,955	7,024	8,441	5,901	4,371	2,875	3,577	2,320	1,468	2,151	3,890	5,373
75%	4,035	4,604	6,159	3,624	3,204	2,258	1,668	1,460	1,277	1,533	2,398	2,643
50%	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825
25%	1,959	2,232	2,667	1,466	1,343	1,014	783	591	475	480	832	1,066
10%	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870
5%	1,100	1,599	1,532	520	453	613	544	487	318	262	394	787
2%	683	1,421	1,272	497	414	503	482	354	295	258	268	575
0%	301	1,403	1,156	449	371	491	431	285	268	245	203	233

Monthly Flows (in CFS) for
03150109 - Middle Tallapoosa Subbasin

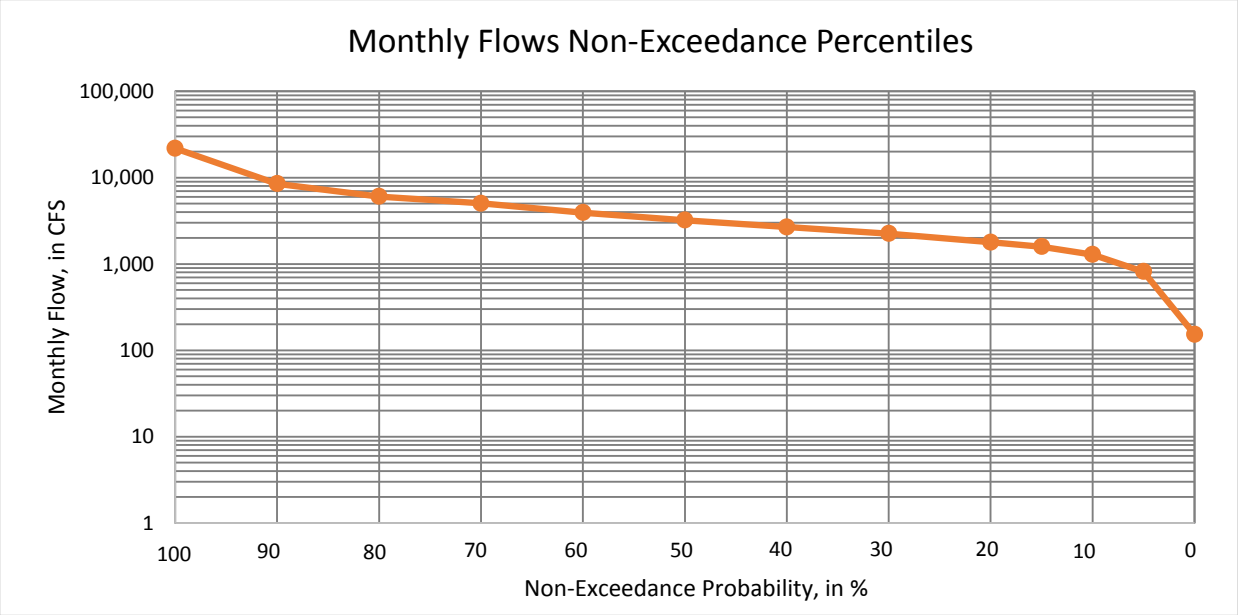
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,722	9,013	14,380	13,823	6,094	5,130	6,945	6,682	5,629	8,897	7,103	6,470	8,238
1976	8,221	8,372	10,228	9,560	6,694	4,237	3,695	2,574	3,244	1,492	3,227	5,450	5,566
1977	6,394	2,892	8,978	12,275	2,362	3,452	1,500	2,486	1,443	2,836	4,803	4,363	4,484
1978	5,994	7,815	5,183	564	5,613	3,862	1,994	2,283	2,010	1,180	1,954	2,792	3,416
1979	5,042	5,493	8,816	21,562	5,157	4,347	3,261	2,985	3,262	4,098	5,429	4,057	6,103
1980	5,975	6,448	11,730	11,961	8,097	3,299	2,936	1,625	1,282	1,914	3,291	3,674	5,178
1981	2,400	5,967	1,932	4,179	2,140	2,424	1,730	1,604	1,043	1,045	1,585	3,468	2,433
1982	6,653	10,765	5,220	6,866	4,476	3,195	2,862	2,878	1,212	2,294	2,408	8,674	4,758
1983	8,092	8,258	7,452	13,351	6,048	4,073	3,201	2,656	1,773	1,534	5,423	12,076	6,144
1984	9,698	8,620	5,734	3,893	6,361	2,180	2,505	9,065	2,823	1,570	3,808	4,799	5,080
1985	3,241	6,766	1,938	415	2,205	1,280	2,402	3,342	2,155	2,985	3,825	3,991	2,857
1986	1,782	2,151	416	819	1,630	1,386	2,217	1,642	860	589	2,790	5,192	1,790
1987	4,448	7,629	6,440	2,138	2,688	2,876	2,530	2,133	1,883	1,466	2,325	2,329	3,215
1988	4,292	4,617	234	153	228	2,359	620	871	2,963	3,268	5,030	3,160	2,294
1989	3,754	1,648	3,343	5,955	2,954	12,464	7,778	3,115	3,720	5,714	5,870	7,387	5,320
1990	7,226	17,251	21,818	4,511	3,706	1,801	1,957	1,933	1,352	1,138	2,321	2,999	5,607
1991	3,407	4,350	2,401	3,989	7,340	4,171	3,921	2,752	2,556	2,173	5,123	5,776	3,994
1992	6,079	6,513	5,839	2,847	2,184	3,440	2,199	3,422	3,097	3,001	8,391	11,262	4,847
1993	9,961	9,215	5,627	5,758	4,483	2,317	2,324	1,829	2,136	2,799	2,342	4,051	4,378
1994	2,796	4,598	4,364	5,388	2,639	2,824	6,418	4,971	2,851	4,138	5,030	6,487	4,377
1995	3,822	7,351	8,697	1,910	2,317	1,855	1,966	1,759	1,432	8,646	8,522	6,470	4,552
1996	5,273	13,103	11,604	4,612	2,710	2,641	1,825	2,646	2,355	3,424	3,801	5,728	4,928
1997	8,018	7,677	9,140	2,520	3,689	6,031	4,243	2,932	2,112	2,888	3,714	7,295	5,016
1998	9,607	10,577	14,773	7,696	3,770	3,117	2,294	3,385	2,552	1,716	3,323	3,397	5,490
1999	3,952	3,919	1,253	1,334	1,397	2,903	4,218	2,406	2,066	1,663	2,552	2,493	2,505
2000	2,642	1,785	816	2,350	1,451	1,680	1,833	1,746	1,589	1,593	1,317	1,994	1,733
2001	4,357	2,443	11,489	6,962	3,022	5,436	2,553	2,627	2,539	1,999	2,361	3,033	4,079
2002	4,426	3,262	1,021	535	1,757	1,353	1,535	1,883	2,086	2,953	7,391	8,490	3,058
2003	5,008	5,411	6,059	5,674	18,179	8,835	12,200	4,730	3,119	2,588	5,782	4,472	6,861
2004	3,417	5,344	944	395	1,678	2,184	2,354	2,056	5,356	3,175	7,505	7,770	3,496
2005	3,813	4,445	5,161	9,077	4,241	4,157	9,941	5,144	2,817	4,311	3,994	4,577	5,147
2006	5,632	4,921	3,128	1,894	3,152	1,212	1,430	1,613	2,160	1,637	4,863	3,355	2,904
2007	4,131	2,451	337	330	851	2,258	1,563	604	988	1,801	434	316	1,333
2008	252	184	710	2,540	2,537	1,660	1,367	800	1,861	2,183	2,783	5,259	1,854
2009	3,848	930	6,057	5,275	5,685	2,079	1,678	2,113	5,942	10,369	11,805	13,055	5,770
2010	11,688	11,723	9,613	2,785	5,250	3,039	1,320	1,445	1,685	1,616	3,421	2,641	4,649
2011	1,806	1,765	5,420	3,121	1,294	1,077	1,083	902	815	1,008	3,329	2,489	2,010
2012	5,669	3,617	3,105	666	893	1,480	805	727	781	1,327	2,887	4,635	2,213
2013	4,020	8,343	4,128	3,863	6,796	3,414	6,682	3,670	2,752	2,590	3,198	7,754	4,754
2014	8,054	5,811	4,875	11,803	5,139	3,887	1,954	1,210	1,204	2,211	3,489	4,601	4,503

Non-Exceedance Percentiles

03150109 - Middle Tallapoosa Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	252	184	234	153	228	1,077	620	604	781	589	434	316	1,333
5th %	1,805	1,612	412	391	891	1,276	1,069	797	858	1,043	1,572	2,313	1,787
10th %	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493	1,995
15th %	3,174	2,399	1,009	651	1,603	1,633	1,489	1,410	1,211	1,445	2,339	2,769	2,282
20th %	3,415	2,803	1,796	1,231	1,741	1,776	1,557	1,612	1,338	1,526	2,399	3,026	2,490
30th %	3,840	4,221	3,121	2,286	2,283	2,183	1,831	1,755	1,656	1,631	2,858	3,446	3,168
40th %	4,227	4,799	4,671	2,822	2,668	2,398	1,983	2,007	1,959	1,869	3,310	4,055	4,045
Median	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589	4,493
60th %	5,647	6,614	5,927	4,877	3,958	3,236	2,515	2,634	2,428	2,674	3,892	5,219	4,756
70th %	6,174	7,718	7,826	5,817	5,144	3,575	3,016	2,894	2,772	2,962	5,030	5,984	5,035
80th %	8,025	8,421	9,234	7,972	5,758	4,160	3,980	3,351	2,989	3,299	5,500	7,313	5,354
90th %	8,810	10,596	11,617	11,993	6,704	5,161	6,709	4,754	3,308	4,452	7,402	8,509	5,803
Maximum	11,688	17,251	21,818	21,562	18,179	12,464	12,200	9,065	5,942	10,369	11,805	13,055	8,238
Average	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207	4,173

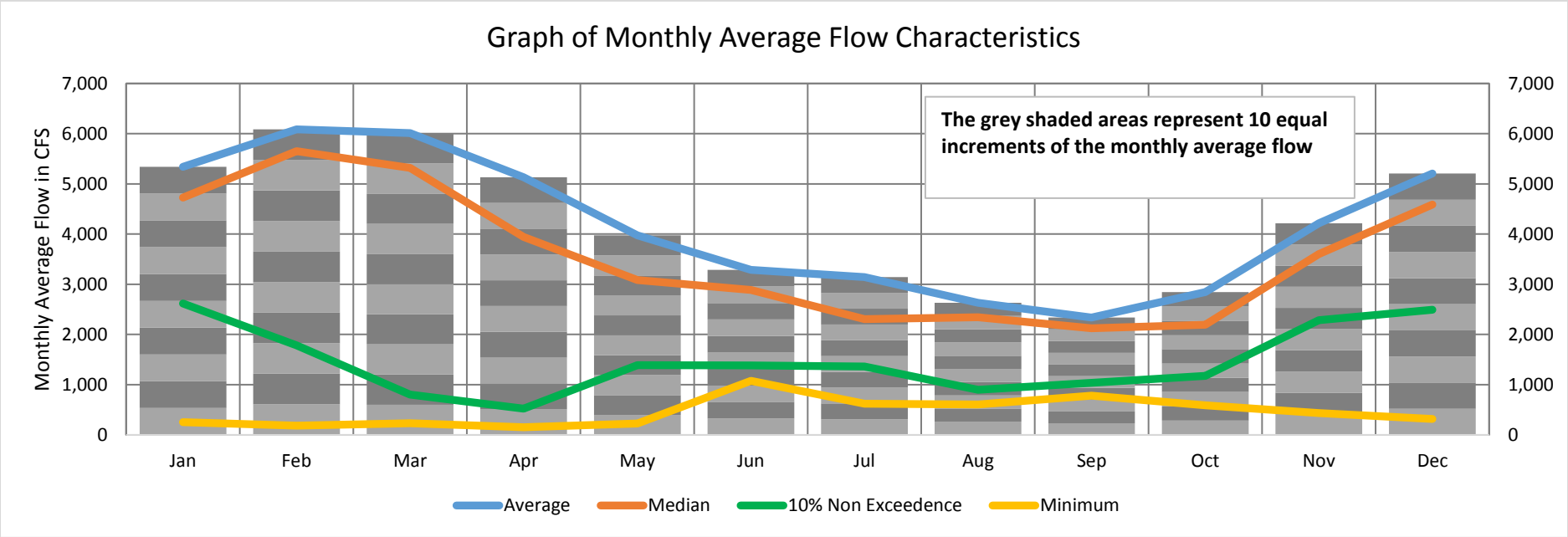
	Flows in CFS
Minimum	153.0
5th %	816
10th %	1,282
15th %	1,583
20th %	1,780
30th %	2,246
40th %	2,675
Median	3,214
60th %	3,933
70th %	5,030
80th %	6,050
90th %	8,494
Maximum	21,818
Average	4,184



Q10/Q50	0.40
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.05
Q5/DA	0.27
Q10/DA	0.43
Q15/DA	0.53
Q20/DA	0.60
Q30/DA	0.75
Q40/DA	0.90
Q50/DA	1.08
Q60/DA	1.32
Q70/DA	1.69
Q80/DA	2.03
Q90/DA	2.85
Qmax/DA	7.31

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

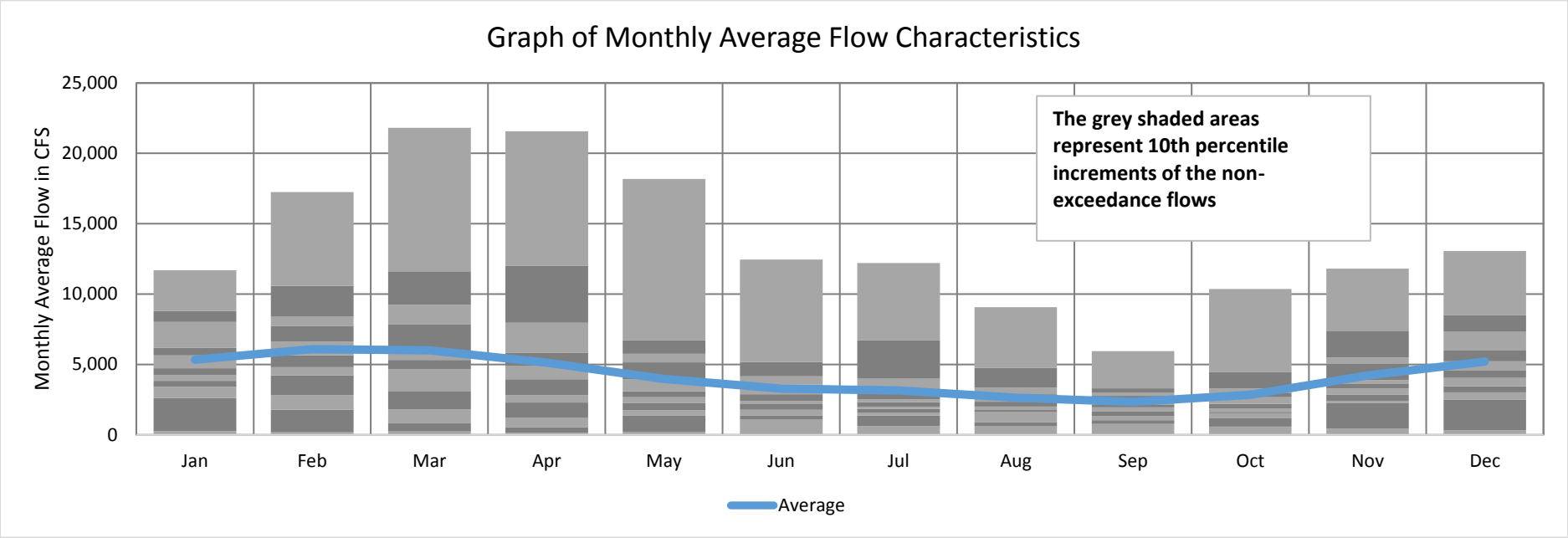
Site #: 03150109 Name: Middle Tallapoosa Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207
100%	11,688	17,251	21,818	21,562	18,179	12,464	12,200	9,065	5,942	10,369	11,805	13,055
98%	10,341	14,016	16,323	15,526	10,315	9,633	10,438	7,207	5,698	9,221	9,245	12,291
95%	9,711	11,792	14,400	13,374	7,378	6,172	7,886	5,221	5,370	8,659	8,398	11,303
90%	8,810	10,596	11,617	11,993	6,704	5,161	6,709	4,754	3,308	4,452	7,402	8,509
75%	6,796	8,279	8,856	6,890	5,340	3,933	3,369	3,017	2,830	3,044	5,198	6,474
50%	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589
25%	3,798	3,528	2,285	1,906	2,173	2,023	1,717	1,638	1,440	1,587	2,726	3,307
10%	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493
5%	1,805	1,612	412	391	891	1,276	1,069	797	858	1,043	1,572	2,313
2%	1,445	766	314	291	714	1,182	764	700	807	916	1,123	1,625
0%	252	184	234	153	228	1,077	620	604	781	589	434	316

Site #: 03150109 Name: Middle Tallapoosa Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,984 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207
100%	11,688	17,251	21,818	21,562	18,179	12,464	12,200	9,065	5,942	10,369	11,805	13,055
98%	10,341	14,016	16,323	15,526	10,315	9,633	10,438	7,207	5,698	9,221	9,245	12,291
95%	9,711	11,792	14,400	13,374	7,378	6,172	7,886	5,221	5,370	8,659	8,398	11,303
90%	8,810	10,596	11,617	11,993	6,704	5,161	6,709	4,754	3,308	4,452	7,402	8,509
75%	6,796	8,279	8,856	6,890	5,340	3,933	3,369	3,017	2,830	3,044	5,198	6,474
50%	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589
25%	3,798	3,528	2,285	1,906	2,173	2,023	1,717	1,638	1,440	1,587	2,726	3,307
10%	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493
5%	1,805	1,612	412	391	891	1,276	1,069	797	858	1,043	1,572	2,313
2%	1,445	766	314	291	714	1,182	764	700	807	916	1,123	1,625
0%	252	184	234	153	228	1,077	620	604	781	589	434	316

Monthly Flows (in CFS) for

03150110 - Lower Tallapoosa River Subbasin

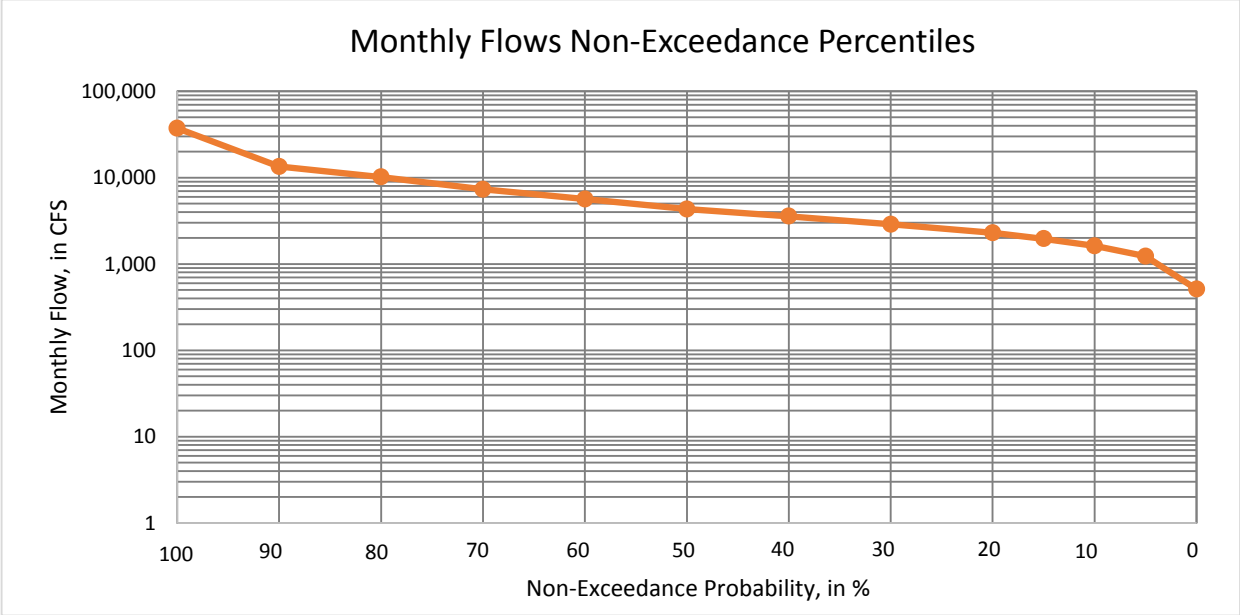
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	14,501	16,065	24,758	23,282	8,780	7,208	10,293	10,158	7,970	15,086	10,470	9,714	13,177
1976	12,980	12,688	16,651	15,037	10,715	5,887	5,164	3,294	4,111	1,901	4,918	9,092	8,514
1977	10,464	4,520	15,587	19,252	3,108	4,358	1,896	3,333	1,873	3,643	6,774	6,198	6,755
1978	11,544	11,826	8,545	1,668	10,020	5,434	2,544	3,014	2,408	1,350	2,362	3,633	5,336
1979	7,608	10,730	15,051	36,263	7,752	5,813	4,395	3,758	4,217	5,267	7,276	5,531	9,418
1980	8,732	10,122	20,975	19,536	12,873	4,482	3,738	1,916	1,494	2,334	4,190	4,746	7,916
1981	3,033	9,521	3,175	8,067	2,917	3,027	2,080	1,968	1,228	1,202	1,887	4,616	3,511
1982	9,899	17,916	7,834	11,451	6,524	4,074	3,710	3,790	1,439	2,829	3,347	14,226	7,189
1983	13,086	13,702	14,182	20,760	8,535	5,526	4,121	3,360	2,686	1,981	8,091	20,083	9,648
1984	15,479	13,235	9,961	5,846	9,229	2,761	3,138	12,563	3,464	1,865	4,826	6,374	7,382
1985	4,230	10,378	3,051	883	3,000	1,518	3,731	4,600	2,652	3,796	5,056	6,075	4,046
1986	2,904	4,515	2,961	1,357	2,013	1,639	2,640	1,911	1,029	775	4,544	7,657	2,822
1987	7,623	12,812	11,128	3,422	3,914	4,261	3,530	2,607	2,218	1,682	2,848	2,930	4,869
1988	6,398	7,514	1,204	1,012	510	2,883	1,062	1,019	3,966	4,125	7,088	4,321	3,388
1989	5,694	2,675	6,249	11,107	4,604	20,897	12,437	4,049	4,934	8,058	8,570	11,965	8,452
1990	12,680	28,065	37,324	6,615	5,267	2,258	2,396	2,298	1,556	1,296	2,815	3,771	8,765
1991	4,784	6,486	5,890	5,781	11,066	6,108	5,579	3,754	3,300	2,663	7,106	8,169	5,889
1992	10,396	11,226	9,311	4,156	2,770	4,403	2,697	4,435	3,907	3,792	14,973	17,573	7,446
1993	15,464	14,303	9,761	8,802	6,121	2,861	2,851	2,295	2,601	3,440	3,108	5,642	6,396
1994	4,435	8,113	7,104	7,645	3,526	3,701	12,973	6,730	3,678	5,650	6,982	9,469	6,668
1995	5,918	12,022	14,308	2,792	2,902	2,304	2,353	2,097	1,670	13,100	10,720	11,640	6,803
1996	11,240	20,630	22,140	7,926	3,828	3,124	2,105	2,851	3,149	3,589	4,046	7,183	7,578
1997	12,360	13,790	13,350	5,402	5,811	8,156	5,548	3,592	2,318	3,287	5,416	13,940	7,724
1998	14,830	20,450	25,010	11,180	4,691	3,327	2,351	3,068	2,794	2,844	2,801	3,596	8,010
1999	5,596	7,584	4,067	2,079	1,636	4,549	6,040	2,527	2,034	2,363	2,624	3,088	3,660
2000	3,979	2,770	2,897	5,425	1,543	1,758	1,792	1,685	1,736	1,587	1,765	3,264	2,513
2001	6,096	4,485	25,230	12,390	4,050	6,556	3,591	3,024	2,648	2,034	2,489	3,387	6,350
2002	5,426	4,441	3,652	2,071	2,032	1,561	1,615	1,973	2,145	2,950	8,236	10,300	3,866
2003	6,369	9,346	12,130	11,590	23,340	12,330	16,470	7,593	4,361	3,678	7,051	6,727	10,102
2004	5,554	9,583	2,205	1,346	2,625	2,896	3,144	2,569	7,682	3,909	10,200	10,360	5,133
2005	5,656	8,277	11,910	19,780	6,017	6,236	14,640	8,742	3,780	2,827	4,225	5,585	8,134
2006	7,058	8,236	7,175	2,592	3,820	1,380	1,387	1,614	2,126	1,542	5,894	3,853	3,864
2007	6,985	4,314	2,748	1,161	918	2,089	1,566	671	1,130	2,048	609	546	2,056
2008	1,227	2,458	2,380	3,944	2,683	1,658	1,544	3,170	2,090	2,370	2,933	7,431	2,829
2009	6,420	1,992	14,050	12,110	11,580	4,125	2,179	2,548	7,181	13,370	18,480	25,860	10,052
2010	19,350	18,110	16,500	3,696	6,922	3,698	1,513	1,743	1,816	1,745	3,375	3,111	6,745
2011	2,224	3,377	9,374	4,678	1,818	1,396	1,471	921	853	758	3,096	2,904	2,736
2012	6,961	5,826	4,537	1,181	1,347	1,590	824	695	688	1,072	2,904	5,074	2,712
2013	5,433	18,740	8,012	6,279	9,228	5,163	10,660	5,055	2,899	3,353	4,178	11,380	7,471
2014	11,550	8,852	7,655	19,790	7,387	5,256	2,597	1,662	1,510	2,795	4,513	6,287	6,624

Non-Exceedance Percentiles

03150110 - Lower Tallapoosa River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546	2,056
5th %	2,870	2,664	2,371	1,154	1,326	1,512	1,371	910	1,020	1,057	1,881	2,929	2,702
10th %	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109	2,814
15th %	4,404	4,422	3,038	1,621	1,984	1,655	1,563	1,682	1,486	1,513	2,774	3,369	3,304
20th %	5,298	4,509	3,557	2,077	2,506	2,023	1,757	1,877	1,547	1,663	2,841	3,626	3,630
30th %	5,638	7,206	6,141	3,614	2,913	2,831	2,157	2,060	1,856	1,957	3,104	4,528	4,622
40th %	6,260	8,261	7,762	5,112	3,702	3,085	2,485	2,540	2,137	2,351	4,125	5,563	6,166
Median	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242	6,707
60th %	8,067	10,929	11,441	7,982	5,893	4,376	3,554	3,220	2,729	3,085	5,200	7,282	7,266
70th %	10,697	12,725	14,090	11,261	7,062	5,191	3,853	3,641	3,349	3,605	7,002	9,205	7,622
80th %	12,424	13,893	15,769	12,919	8,870	5,828	5,554	4,127	3,919	3,819	7,439	10,564	8,198
90th %	14,534	18,173	22,402	19,781	10,750	6,621	10,838	6,817	4,418	5,891	10,227	13,969	9,441
Maximum	19,350	28,065	37,324	36,263	23,340	20,897	16,470	12,563	7,970	15,086	18,480	25,860	13,177
Average	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683	6,314

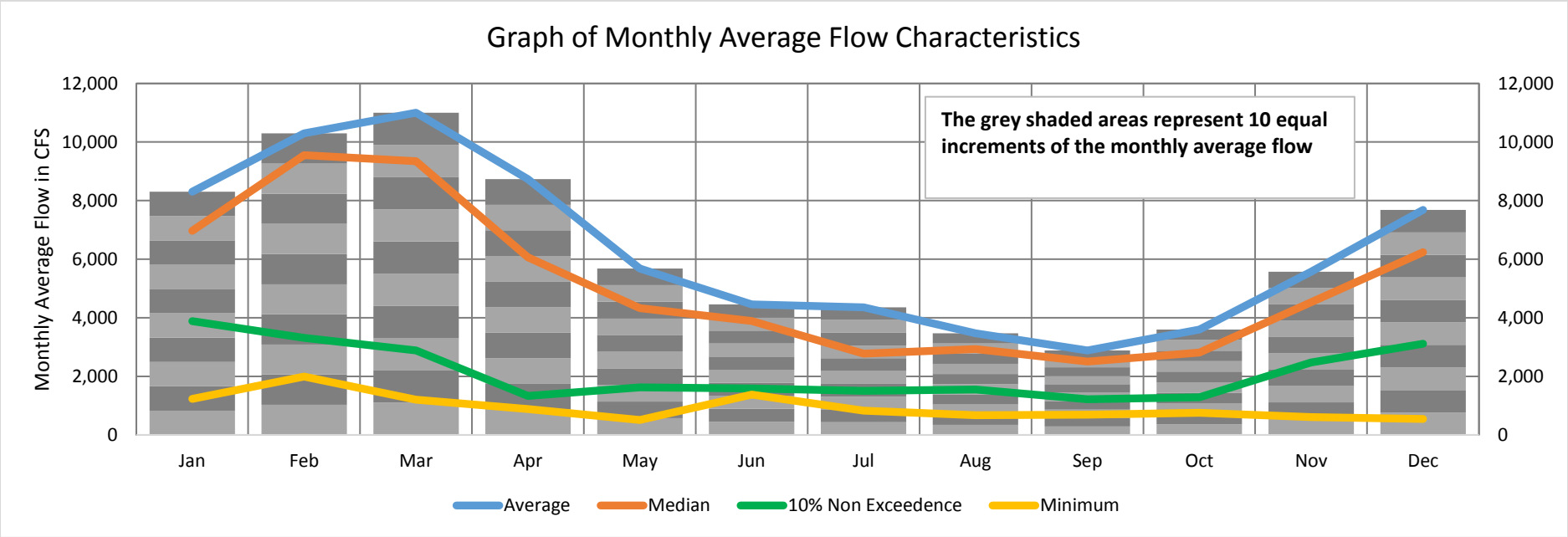
	Flows in CFS
Minimum	509.7
5th %	1,228
10th %	1,615
15th %	1,960
20th %	2,298
30th %	2,876
40th %	3,565
Median	4,318
60th %	5,645
70th %	7,309
80th %	10,129
90th %	13,403
Maximum	37,324
Average	6,336



Q10/Q50	0.37
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.11
Q5/DA	0.26
Q10/DA	0.35
Q15/DA	0.42
Q20/DA	0.49
Q30/DA	0.62
Q40/DA	0.77
Q50/DA	0.93
Q60/DA	1.22
Q70/DA	1.57
Q80/DA	2.18
Q90/DA	2.88
Qmax/DA	8.03

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

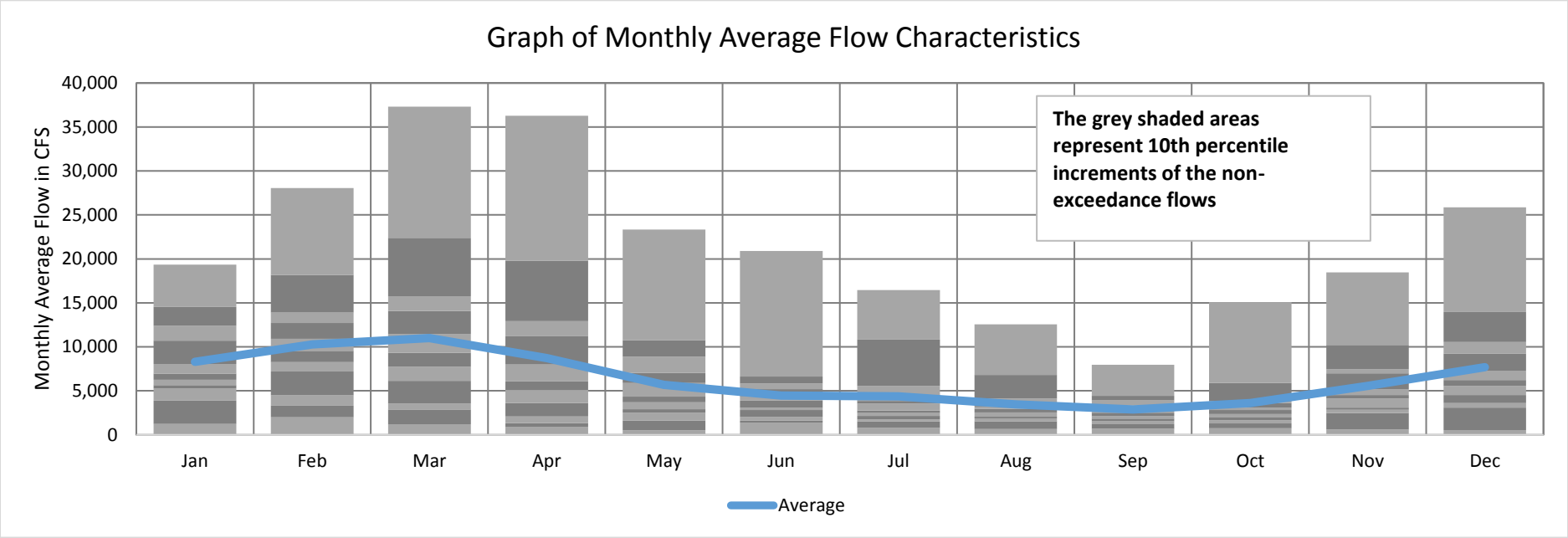
Site #: 03150110 Name: Lower Tallapoosa River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683
100%	19,350	28,065	37,324	36,263	23,340	20,897	16,470	12,563	7,970	15,086	18,480	25,860
98%	16,330	22,266	27,891	26,138	15,175	14,215	15,043	10,687	7,745	13,748	15,744	21,354
95%	15,464	20,459	25,021	20,886	11,645	8,365	13,056	8,813	7,206	13,114	10,933	17,699
90%	14,534	18,173	22,402	19,781	10,750	6,621	10,838	6,817	4,418	5,891	10,227	13,969
75%	11,546	13,352	14,494	11,720	7,948	5,457	4,587	3,766	3,704	3,706	7,092	9,861
50%	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242
25%	5,524	5,499	4,420	2,742	2,748	2,292	2,034	1,955	1,719	1,835	2,926	3,833
10%	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109
5%	2,870	2,664	2,371	1,154	1,326	1,512	1,371	910	1,020	1,057	1,881	2,929
2%	2,005	2,355	1,985	983	828	1,392	1,010	690	817	771	1,511	2,385
0%	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546

Site #: 03150110 Name: Lower Tallapoosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,646 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683
100%	19,350	28,065	37,324	36,263	23,340	20,897	16,470	12,563	7,970	15,086	18,480	25,860
98%	16,330	22,266	27,891	26,138	15,175	14,215	15,043	10,687	7,745	13,748	15,744	21,354
95%	15,464	20,459	25,021	20,886	11,645	8,365	13,056	8,813	7,206	13,114	10,933	17,699
90%	14,534	18,173	22,402	19,781	10,750	6,621	10,838	6,817	4,418	5,891	10,227	13,969
75%	11,546	13,352	14,494	11,720	7,948	5,457	4,587	3,766	3,704	3,706	7,092	9,861
50%	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242
25%	5,524	5,499	4,420	2,742	2,748	2,292	2,034	1,955	1,719	1,835	2,926	3,833
10%	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109
5%	2,870	2,664	2,371	1,154	1,326	1,512	1,371	910	1,020	1,057	1,881	2,929
2%	2,005	2,355	1,985	983	828	1,392	1,010	690	817	771	1,511	2,385
0%	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546

Monthly Flows (in CFS) for
03150201 - Upper Alabama River Subbasin

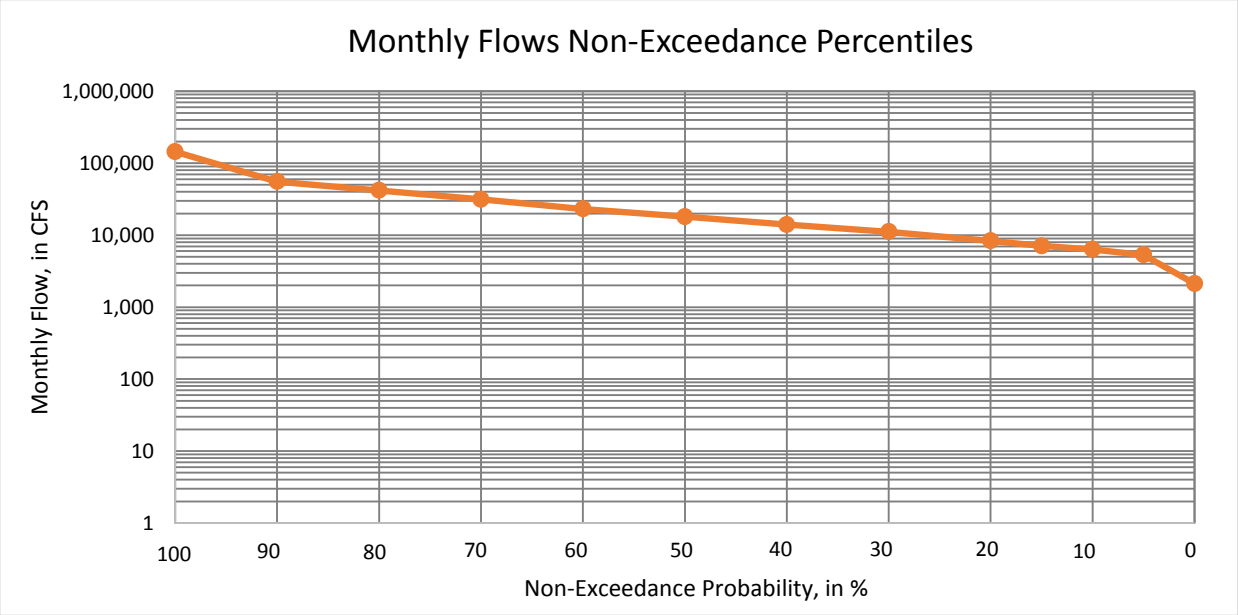
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	54,619	72,313	74,284	56,009	25,633	20,142	25,326	26,271	34,224	46,518	28,003	31,193	41,028
1976	55,815	36,184	90,440	61,432	35,409	20,062	23,537	11,517	9,926	7,172	13,317	28,265	32,800
1977	37,437	21,999	73,293	90,189	14,946	10,936	6,321	7,982	9,825	18,991	39,283	22,546	29,452
1978	59,370	26,556	35,888	15,049	48,523	17,624	7,716	10,679	8,317	4,905	8,405	18,079	21,823
1979	45,002	46,427	92,035	144,434	35,284	25,428	20,313	11,824	23,514	26,784	31,934	20,221	43,437
1980	47,213	44,592	114,583	91,636	48,523	16,462	11,107	7,024	11,562	8,285	14,479	14,240	35,762
1981	6,171	47,714	25,098	42,074	8,664	14,627	8,702	6,183	6,472	5,172	6,868	17,362	15,987
1982	55,040	80,607	39,306	55,644	25,895	14,433	12,326	13,374	6,105	7,853	14,673	66,434	32,355
1983	38,873	53,753	53,422	75,469	36,822	17,840	10,647	6,704	9,109	7,825	28,083	84,299	35,114
1984	60,669	40,103	39,363	36,298	45,151	12,121	15,060	37,335	9,621	10,221	13,659	20,654	28,372
1985	15,299	52,727	18,193	11,585	15,254	7,350	16,530	13,875	7,047	11,186	13,260	18,638	16,526
1986	9,909	17,213	19,982	6,705	4,841	4,650	5,178	4,668	4,194	4,025	21,851	28,356	10,931
1987	43,818	44,387	58,276	18,057	10,773	12,462	11,346	5,745	5,809	5,517	5,714	8,991	19,130
1988	27,593	23,001	11,562	11,505	6,270	5,497	4,197	4,305	16,405	9,817	20,951	13,898	12,827
1989	35,796	23,309	54,414	40,491	17,555	67,095	43,612	12,873	14,696	33,415	32,287	37,768	34,488
1990	64,053	114,697	121,647	26,249	19,686	9,497	8,715	7,042	5,851	10,597	10,575	22,138	34,649
1991	25,700	35,066	42,938	36,816	48,663	19,228	13,463	10,131	10,680	8,977	13,662	23,171	23,994
1992	33,508	39,455	43,669	21,486	9,869	15,575	11,359	15,829	18,067	11,857	52,336	57,791	27,477
1993	73,725	35,146	49,855	30,725	19,514	10,985	8,947	6,711	6,003	4,804	8,476	15,974	22,562
1994	25,429	39,869	50,523	60,112	15,397	13,332	23,076	14,835	15,696	26,034	16,588	38,612	28,217
1995	27,751	55,437	56,853	16,329	11,911	8,624	7,100	6,275	6,975	46,707	46,802	32,045	26,745
1996	55,708	73,979	79,020	33,206	17,240	14,492	9,487	10,195	12,321	11,132	18,862	31,377	30,347
1997	48,058	44,973	57,727	32,108	35,162	40,187	15,164	11,954	9,168	21,533	24,348	27,322	30,570
1998	55,183	78,337	64,247	58,872	23,935	14,336	9,471	9,659	6,813	6,021	9,052	17,192	29,103
1999	36,911	40,728	31,759	14,982	18,289	18,639	23,744	7,840	6,396	6,415	10,416	9,155	18,660
2000	13,536	12,257	24,364	59,492	10,133	5,551	5,146	5,625	5,316	5,730	11,117	10,044	13,971
2001	22,694	30,057	68,270	33,508	12,049	22,169	14,237	11,640	13,301	8,038	10,232	18,820	22,044
2002	30,533	23,719	21,110	21,611	18,604	8,129	7,993	7,310	11,642	14,069	35,603	55,393	21,312
2003	26,146	46,427	56,510	35,170	89,984	41,288	53,172	24,540	13,032	11,653	20,073	22,865	36,761
2004	24,232	42,872	17,681	11,220	13,989	14,468	14,411	10,160	30,134	16,006	48,352	50,619	24,344
2005	21,554	35,158	43,920	61,033	20,495	22,136	44,399	21,919	10,595	9,336	12,291	21,156	26,938
2006	30,760	35,010	30,624	17,874	17,065	8,051	6,351	7,783	6,382	8,559	21,315	13,932	16,866
2007	26,476	15,653	11,483	6,556	5,606	5,041	4,661	4,550	4,559	3,662	2,276	2,122	7,689
2008	6,456	20,142	23,845	17,259	15,413	6,265	5,124	14,263	7,381	6,720	7,649	31,376	13,478
2009	43,088	13,636	53,776	41,892	43,852	11,859	7,130	8,058	31,079	51,759	58,572	78,260	37,116
2010	52,488	60,862	54,972	20,780	25,086	13,944	7,026	6,658	4,985	4,774	7,555	11,779	22,379
2011	13,043	18,364	52,385	35,420	9,681	5,845	6,545	5,479	7,506	5,213	11,836	26,283	16,466
2012	32,709	22,831	30,179	8,313	7,436	5,491	4,659	6,372	5,462	6,743	7,496	22,056	13,306
2013	45,002	67,824	37,414	37,870	57,934	21,657	37,414	23,172	13,021	13,169	15,197	56,966	35,437
2014	44,011	42,314	36,309	62,252	23,469	19,561	10,128	6,424	6,709	11,665	16,348	29,291	25,564

Non-Exceedance Percentiles

03150201 - Upper Alabama River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122	7,689
5th %	9,736	15,552	17,375	8,232	6,237	5,468	4,661	4,662	4,963	4,737	6,810	9,147	12,732
10th %	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605	13,461
15th %	20,616	21,720	23,434	14,472	9,841	6,202	6,150	6,118	5,844	5,206	8,292	13,927	15,684
20th %	23,924	22,967	24,951	16,073	10,645	7,911	6,506	6,353	6,084	5,687	8,936	15,627	16,514
30th %	26,377	29,007	34,649	19,963	14,659	10,504	7,540	6,709	6,638	6,736	10,955	18,470	20,658
40th %	30,669	35,153	39,340	28,934	16,405	12,326	8,854	7,594	7,247	7,964	13,294	20,955	22,489
Median	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705	26,155
60th %	43,380	43,478	53,564	37,237	21,684	15,006	11,746	10,389	10,194	10,811	17,497	27,699	28,279
70th %	45,666	46,427	56,613	46,145	25,712	18,080	14,606	11,863	11,846	11,722	21,476	31,248	30,414
80th %	54,703	54,090	65,052	59,616	35,692	20,078	20,865	13,953	13,580	16,603	28,853	37,937	34,520
90th %	56,170	72,480	80,162	63,574	48,523	22,495	26,535	22,044	18,611	27,447	40,035	57,048	35,862
Maximum	73,725	114,697	121,647	144,434	89,984	67,095	53,172	37,335	34,224	51,759	58,572	84,299	43,437
Average	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917	25,401

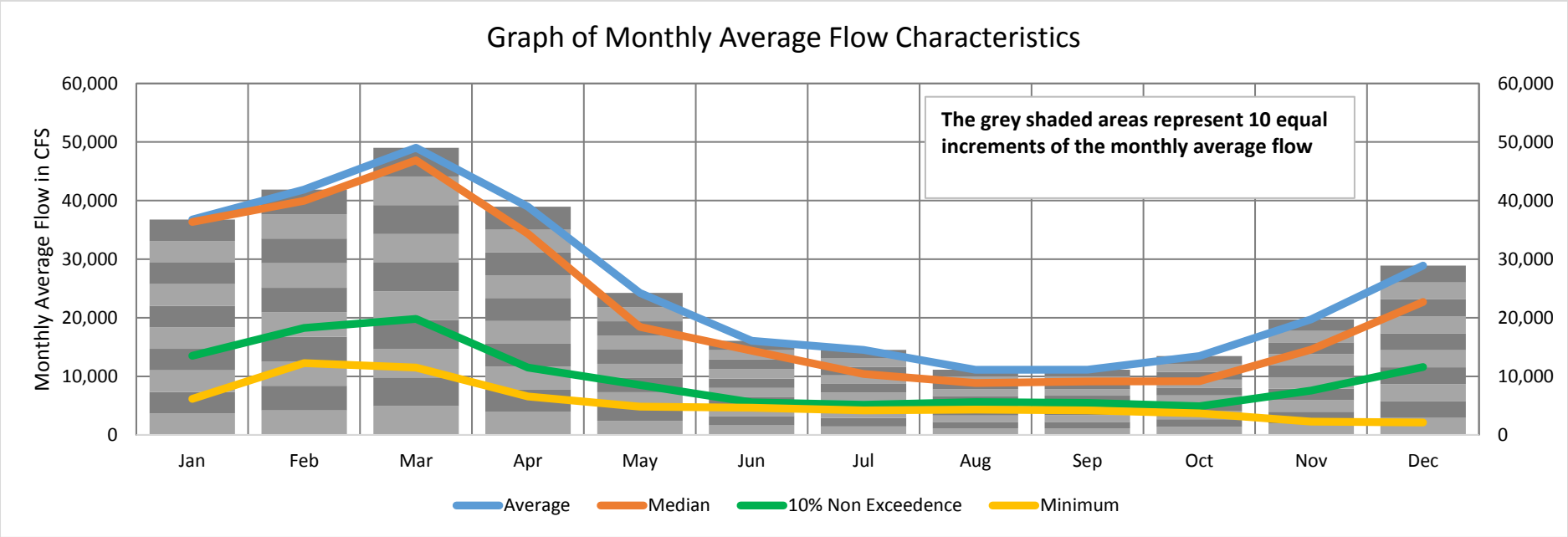
	Flows in CFS
Minimum	2,121.5
5th %	5,311
10th %	6,348
15th %	7,092
20th %	8,316
30th %	11,170
40th %	14,037
Median	18,062
60th %	23,172
70th %	31,491
80th %	41,928
90th %	55,398
Maximum	144,434
Average	25,492



Q10/Q50	0.35
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.12
Q5/DA	0.31
Q10/DA	0.37
Q15/DA	0.41
Q20/DA	0.49
Q30/DA	0.65
Q40/DA	0.82
Q50/DA	1.06
Q60/DA	1.36
Q70/DA	1.84
Q80/DA	2.45
Q90/DA	3.24
Qmax/DA	8.45

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

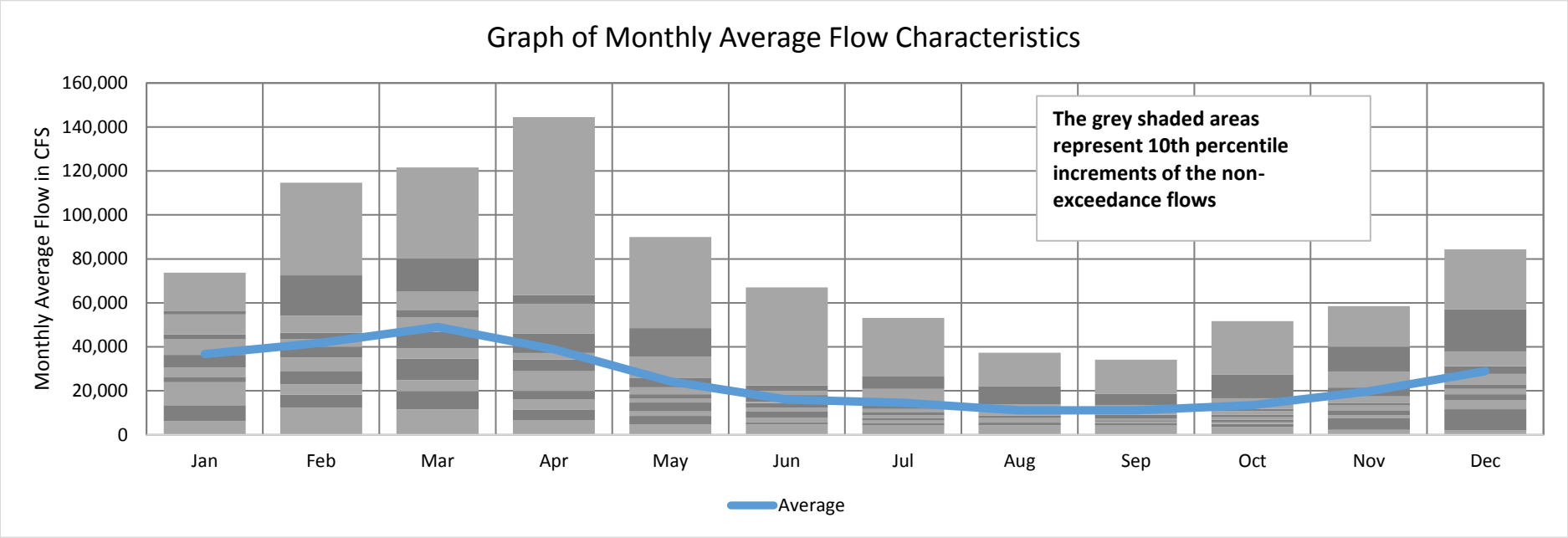
Site #: 03150201 Name: Upper Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917
100%	73,725	114,697	121,647	144,434	89,984	67,095	53,172	37,335	34,224	51,759	58,572	84,299
98%	66,180	88,107	116,137	103,252	64,985	46,966	46,329	28,705	31,771	47,818	53,708	79,589
95%	60,838	78,450	93,163	90,262	49,126	40,242	43,652	24,626	30,181	46,527	48,551	67,025
90%	56,170	72,480	80,162	63,574	48,523	22,495	26,535	22,044	18,611	27,447	40,035	57,048
75%	49,166	48,967	57,864	56,725	35,192	19,311	15,506	12,998	13,024	13,394	25,262	31,544
50%	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705
25%	25,632	23,617	30,513	17,721	12,015	8,500	7,082	6,600	6,392	6,316	10,370	17,319
10%	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605
5%	9,736	15,552	17,375	8,232	6,237	5,468	4,661	4,662	4,963	4,737	6,810	9,147
2%	6,393	13,333	11,545	6,672	5,438	4,955	4,557	4,496	4,478	3,945	4,958	7,480
0%	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122

Site #: 03150201 Name: Upper Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 17,095 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917
100%	73,725	114,697	121,647	144,434	89,984	67,095	53,172	37,335	34,224	51,759	58,572	84,299
98%	66,180	88,107	116,137	103,252	64,985	46,966	46,329	28,705	31,771	47,818	53,708	79,589
95%	60,838	78,450	93,163	90,262	49,126	40,242	43,652	24,626	30,181	46,527	48,551	67,025
90%	56,170	72,480	80,162	63,574	48,523	22,495	26,535	22,044	18,611	27,447	40,035	57,048
75%	49,166	48,967	57,864	56,725	35,192	19,311	15,506	12,998	13,024	13,394	25,262	31,544
50%	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705
25%	25,632	23,617	30,513	17,721	12,015	8,500	7,082	6,600	6,392	6,316	10,370	17,319
10%	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605
5%	9,736	15,552	17,375	8,232	6,237	5,468	4,661	4,662	4,963	4,737	6,810	9,147
2%	6,393	13,333	11,545	6,672	5,438	4,955	4,557	4,496	4,478	3,945	4,958	7,480
0%	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122

Monthly Flows (in CFS) for
03150202 - Cahaba River Basin Subbasin

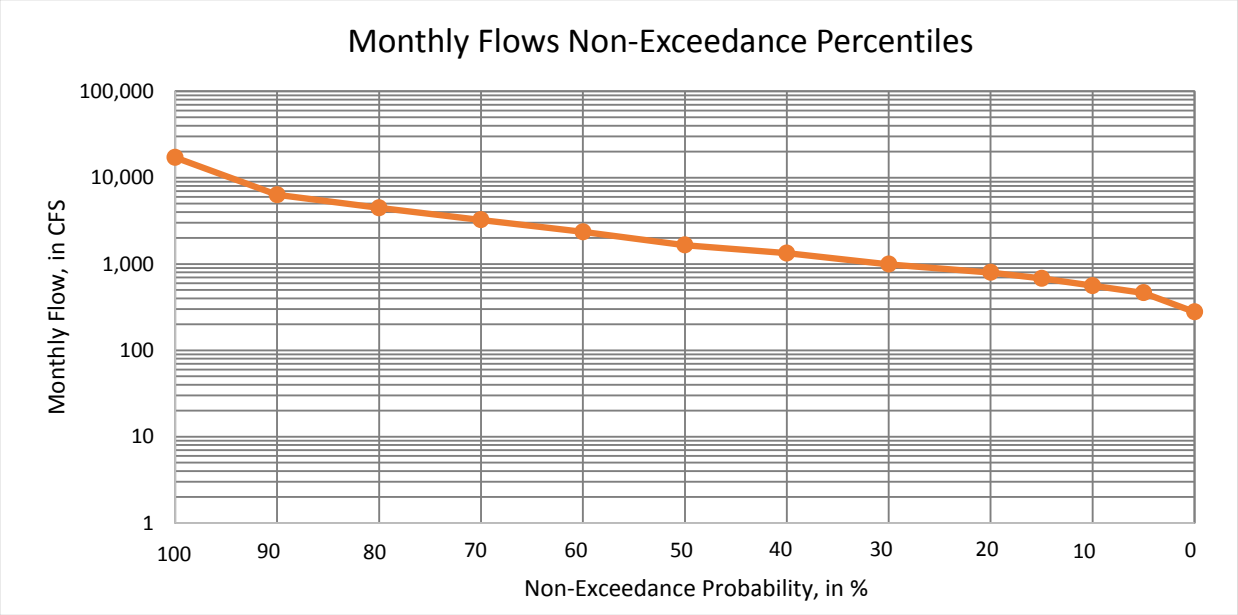
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	7,921	8,927	7,009	7,680	2,492	1,453	2,031	2,656	1,698	3,152	1,699	2,772	4,096
1976	7,639	3,197	13,770	8,485	6,574	1,846	1,176	1,369	1,235	703	961	2,238	4,117
1977	4,602	3,515	11,720	11,990	1,160	746	847	756	1,234	3,226	3,115	2,284	3,763
1978	5,570	2,738	3,869	2,211	5,084	2,892	757	683	517	451	490	1,197	2,208
1979	4,128	4,900	9,517	17,100	2,760	1,530	1,495	1,090	2,031	1,653	2,165	1,425	4,126
1980	4,432	4,102	14,970	9,779	4,274	1,441	903	716	606	1,212	1,196	936	3,716
1981	816	4,442	3,262	5,626	1,030	1,043	668	685	518	547	485	1,166	1,666
1982	5,378	7,577	3,609	6,280	2,403	1,790	1,182	1,142	520	630	950	7,726	3,240
1983	3,605	9,388	7,557	12,330	6,478	2,303	1,478	873	979	737	2,704	10,360	4,866
1984	5,673	3,333	4,327	4,693	3,991	1,080	976	1,525	659	1,234	1,452	2,943	2,659
1985	1,752	6,521	3,155	1,979	1,488	802	1,404	1,355	584	888	997	1,644	1,851
1986	1,016	1,598	1,496	645	878	621	462	450	519	632	3,609	4,089	1,332
1987	7,020	4,566	6,193	2,472	1,275	1,286	1,013	449	551	341	550	807	2,202
1988	2,880	2,534	1,363	1,563	690	348	636	388	1,218	791	2,011	1,470	1,315
1989	4,143	2,265	6,294	5,008	1,348	4,167	6,070	1,007	849	954	1,656	3,216	3,090
1990	9,570	15,960	8,629	2,943	2,337	1,048	965	556	445	468	636	1,458	3,678
1991	2,081	5,909	4,995	3,412	7,528	3,385	1,861	895	984	625	1,211	1,657	2,861
1992	2,751	5,057	3,142	2,241	878	701	722	1,169	2,010	680	4,131	5,122	2,363
1993	8,540	3,880	4,415	3,138	2,252	903	753	938	757	527	1,500	1,720	2,441
1994	2,796	4,243	6,059	4,710	1,433	1,245	2,445	1,029	1,306	1,736	1,237	3,565	2,643
1995	2,939	6,137	7,419	3,249	1,540	800	567	531	591	3,394	4,192	4,027	2,931
1996	5,549	8,619	8,924	3,783	1,590	1,292	1,561	1,332	1,007	982	1,334	2,171	3,148
1997	5,371	4,577	6,169	3,053	1,877	4,407	2,408	1,114	664	979	1,450	3,232	2,934
1998	10,450	8,574	8,127	3,922	1,639	1,216	1,101	1,019	1,270	867	1,072	1,522	3,372
1999	3,602	6,039	4,989	2,465	1,205	2,246	2,835	610	473	860	808	1,123	2,249
2000	2,159	1,324	4,538	6,621	850	654	410	510	305	302	838	831	1,609
2001	1,811	3,426	9,632	5,180	937	2,041	799	981	3,279	809	726	2,970	2,709
2002	5,161	3,531	3,529	1,830	1,334	637	866	433	1,640	1,494	3,079	5,496	2,417
2003	2,478	6,115	5,496	5,103	9,466	5,504	5,580	2,348	1,125	950	1,574	1,472	3,923
2004	2,514	5,847	2,619	2,082	1,622	1,068	991	736	3,096	871	5,588	4,242	2,576
2005	1,925	4,979	5,265	8,040	1,944	4,706	6,661	2,062	1,527	831	917	1,967	3,385
2006	3,874	5,913	4,818	2,334	2,406	625	535	561	525	701	1,399	1,347	2,064
2007	3,380	2,264	1,333	887	461	304	440	278	430	306	323	408	895
2008	838	2,937	2,281	2,432	2,228	688	399	1,453	566	343	313	1,495	1,321
2009	3,425	1,360	8,851	4,523	3,835	1,331	954	1,033	6,530	4,446	6,445	8,729	4,308
2010	5,952	7,300	8,513	2,462	2,358	1,606	762	853	513	506	886	1,322	2,730
2011	1,821	2,565	8,649	3,849	959	634	718	402	1,565	441	765	2,301	2,055
2012	4,042	3,153	5,505	1,573	886	491	504	1,617	2,073	990	610	2,900	2,029
2013	5,324	8,671	4,278	3,726	2,972	1,385	2,049	1,950	657	584	769	4,095	3,007
2014	2,841	4,005	4,900	8,955	2,769	1,682	817	535	557	702	1,228	2,839	2,636

Non-Exceedance Percentiles

03150202 - Cahaba River Basin Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	816	1,324	1,333	645	461	304	399	278	305	302	313	408	895
5th %	1,007	1,586	1,489	1,529	842	484	439	401	445	339	476	830	1,321
10th %	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104	1,581
15th %	1,909	2,560	3,153	2,067	930	637	562	501	518	465	632	1,192	1,823
20th %	2,143	2,897	3,476	2,235	1,016	681	662	534	520	523	758	1,342	2,050
30th %	2,783	3,398	4,312	2,464	1,316	801	756	661	563	629	871	1,471	2,237
40th %	3,204	3,955	4,867	3,104	1,519	1,060	835	748	636	702	983	1,652	2,522
Median	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205	2,684
60th %	4,259	5,010	6,179	4,591	2,286	1,407	1,048	1,023	1,054	869	1,419	2,799	2,932
70th %	5,338	5,951	7,460	5,126	2,432	1,629	1,426	1,122	1,246	961	1,599	3,044	3,176
80th %	5,591	6,677	8,633	6,833	3,145	2,082	1,895	1,358	1,580	1,216	2,273	4,039	3,686
90th %	7,667	8,624	9,529	9,037	5,223	3,463	2,484	1,650	2,035	1,878	3,661	5,159	4,098
Maximum	10,450	15,960	14,970	17,100	9,466	5,504	6,661	2,656	6,530	4,446	6,445	10,360	4,866
Average	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807	2,763

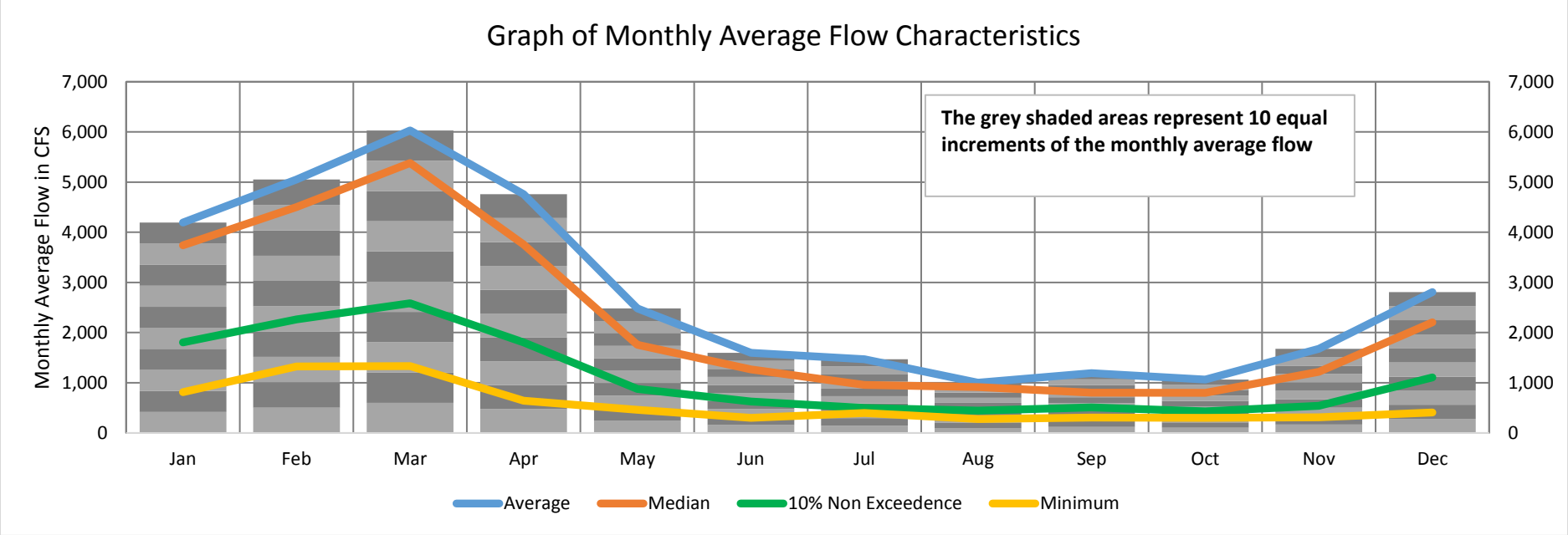
	Flows in CFS
Minimum	278.2
5th %	462
10th %	560
15th %	679
20th %	797
30th %	991
40th %	1,333
Median	1,655
60th %	2,352
70th %	3,237
80th %	4,461
90th %	6,309
Maximum	17,100
Average	2,777



Q10/Q50	0.34
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.16
Q5/DA	0.26
Q10/DA	0.32
Q15/DA	0.38
Q20/DA	0.45
Q30/DA	0.56
Q40/DA	0.75
Q50/DA	0.94
Q60/DA	1.33
Q70/DA	1.83
Q80/DA	2.53
Q90/DA	3.57
Qmax/DA	9.68

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

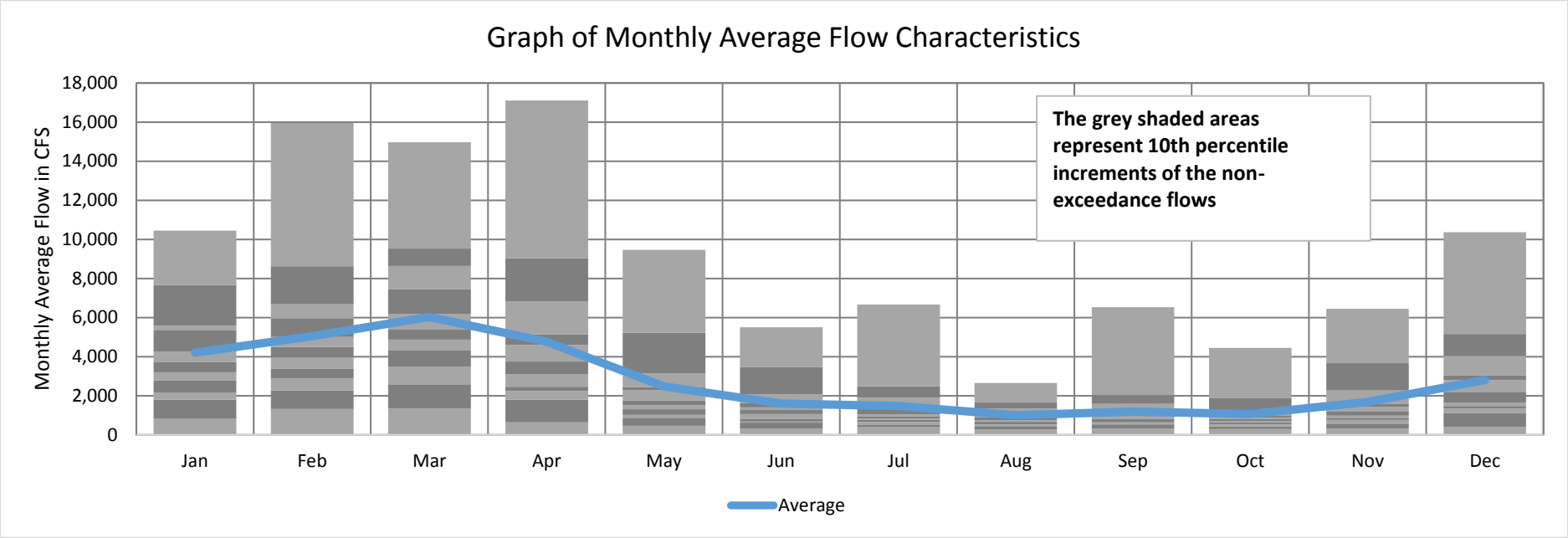
Site #: 03150202 Name: Cahaba River Basin Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807
100%	10,450	15,960	14,970	17,100	9,466	5,504	6,661	2,656	6,530	4,446	6,445	10,360
98%	9,764	10,834	14,034	13,379	7,954	4,882	6,200	2,416	3,994	3,625	5,777	9,088
95%	8,592	8,950	11,823	12,007	6,622	4,422	5,605	2,076	3,105	3,234	4,262	7,776
90%	7,667	8,624	9,529	9,037	5,223	3,463	2,484	1,650	2,035	1,878	3,661	5,159
75%	5,421	6,121	8,224	5,790	2,762	1,804	1,512	1,210	1,361	984	1,777	3,315
50%	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205
25%	2,505	3,186	3,804	2,408	1,194	735	721	559	544	574	798	1,450
10%	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104
5%	1,007	1,586	1,489	1,529	842	484	439	401	445	339	476	830
2%	833	1,352	1,356	833	639	338	408	364	403	305	321	719
0%	816	1,324	1,333	645	461	304	399	278	305	302	313	408

Site #: 03150202 Name: Cahaba River Basin Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,766 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807
100%	10,450	15,960	14,970	17,100	9,466	5,504	6,661	2,656	6,530	4,446	6,445	10,360
98%	9,764	10,834	14,034	13,379	7,954	4,882	6,200	2,416	3,994	3,625	5,777	9,088
95%	8,592	8,950	11,823	12,007	6,622	4,422	5,605	2,076	3,105	3,234	4,262	7,776
90%	7,667	8,624	9,529	9,037	5,223	3,463	2,484	1,650	2,035	1,878	3,661	5,159
75%	5,421	6,121	8,224	5,790	2,762	1,804	1,512	1,210	1,361	984	1,777	3,315
50%	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205
25%	2,505	3,186	3,804	2,408	1,194	735	721	559	544	574	798	1,450
10%	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104
5%	1,007	1,586	1,489	1,529	842	484	439	401	445	339	476	830
2%	833	1,352	1,356	833	639	338	408	364	403	305	321	719
0%	816	1,324	1,333	645	461	304	399	278	305	302	313	408

Monthly Flows (in CFS) for
03150203 - Middle Alabama River Subbasin

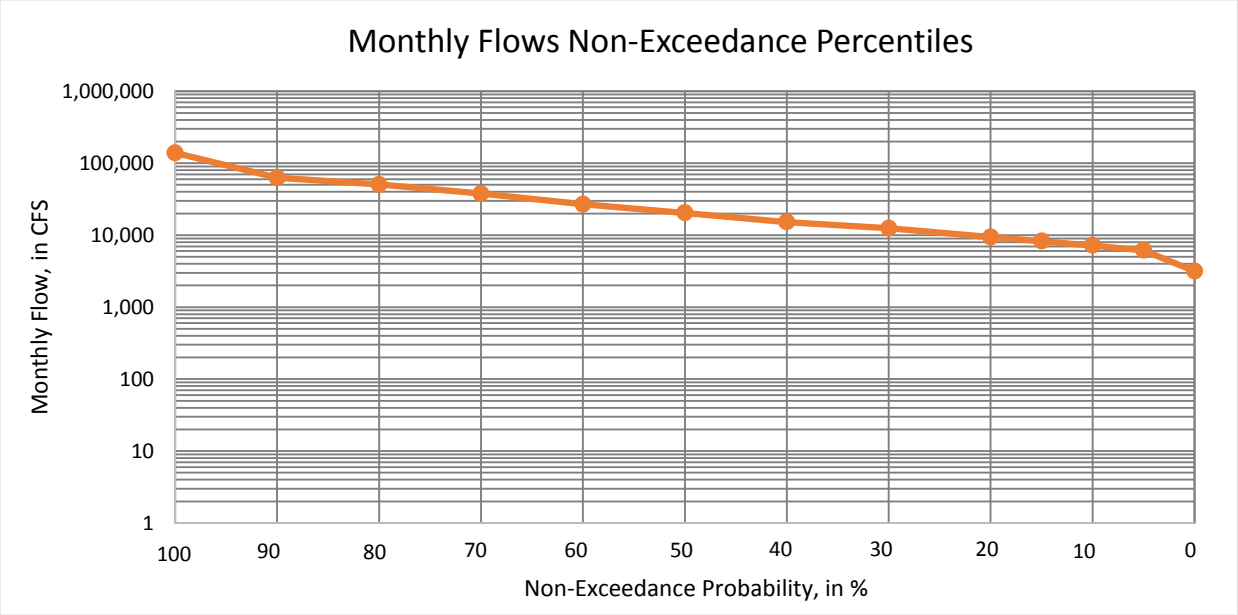
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	74,881	103,399	89,201	79,909	31,422	24,219	28,447	39,227	29,077	54,705	29,746	34,689	51,270
1976	69,618	47,568	84,889	88,090	50,572	23,767	24,370	13,901	12,441	8,727	14,164	37,071	39,587
1977	53,076	31,309	94,493	96,903	16,847	12,620	7,784	10,728	13,769	24,492	45,949	27,016	36,223
1978	62,698	45,977	43,661	23,221	57,162	25,707	9,430	12,328	8,242	6,828	7,566	15,605	26,489
1979	52,831	56,852	103,493	139,364	41,628	27,816	21,875	14,531	18,674	24,803	33,757	22,779	46,357
1980	50,393	49,169	106,318	119,028	59,008	18,985	11,519	8,308	7,061	12,545	13,712	13,307	39,024
1981	9,452	51,306	27,081	43,972	9,861	15,143	8,390	6,979	8,649	6,552	7,660	18,796	17,534
1982	58,631	86,622	46,881	49,141	32,956	15,689	14,475	13,364	6,965	10,982	16,217	73,864	35,210
1983	48,783	78,393	75,154	101,516	49,084	25,519	15,445	9,536	12,855	9,806	30,885	88,410	45,208
1984	73,073	44,386	56,955	51,476	52,191	14,644	15,266	41,854	11,584	11,500	15,407	29,294	34,850
1985	17,808	61,239	27,769	14,258	16,819	8,470	17,177	17,619	9,110	12,196	14,230	21,480	19,599
1986	13,458	25,208	38,417	8,994	8,116	7,702	6,525	6,501	5,565	5,482	27,166	39,227	15,995
1987	50,817	60,119	67,905	26,385	14,042	15,124	13,081	7,903	7,133	6,722	6,622	10,954	23,713
1988	34,133	31,036	16,424	15,586	8,244	6,976	7,541	5,963	20,632	11,914	25,886	16,584	16,620
1989	47,888	26,404	68,488	55,863	19,107	59,215	56,494	14,305	14,644	33,211	33,069	52,643	40,217
1990	81,914	119,028	136,916	38,163	24,982	11,622	11,048	8,879	7,206	9,146	10,634	19,295	39,504
1991	26,686	47,324	47,964	42,889	71,125	28,334	20,510	12,526	12,291	9,491	18,344	26,187	30,219
1992	51,071	57,624	52,511	24,238	10,634	18,316	11,820	16,678	18,175	11,810	61,879	76,576	34,125
1993	85,247	52,747	60,316	43,539	21,451	11,283	10,426	10,219	8,170	7,072	15,237	19,728	28,691
1994	29,341	55,242	58,744	63,602	15,783	13,580	43,172	18,683	15,840	23,777	17,102	45,845	33,277
1995	33,352	62,388	73,055	21,903	12,874	9,399	8,527	8,284	6,242	46,928	51,334	48,651	31,767
1996	53,283	83,129	84,023	40,178	19,973	15,708	12,102	13,458	15,285	12,780	17,817	36,026	33,365
1997	59,196	62,482	77,574	32,166	37,777	45,281	20,500	13,957	9,191	18,241	28,522	45,488	37,422
1998	80,521	96,997	95,961	54,856	22,995	14,324	9,553	10,266	11,500	14,381	10,191	15,878	36,105
1999	32,250	53,095	36,355	16,038	15,030	19,098	30,188	8,477	6,498	8,135	7,839	10,812	20,136
2000	16,998	12,931	28,522	40,601	8,586	6,342	5,916	5,976	5,958	5,563	10,116	13,938	13,433
2001	25,311	33,276	117,616	52,803	12,931	25,330	13,966	12,385	15,322	7,920	8,962	22,299	29,012
2002	34,425	30,546	29,369	21,979	16,640	7,547	7,332	6,858	11,358	15,765	40,799	62,275	23,722
2003	29,746	53,133	64,713	48,444	95,302	52,436	61,220	30,866	13,505	9,861	18,297	22,148	41,638
2004	25,377	57,755	19,276	11,340	13,693	12,667	12,620	8,288	33,173	14,974	49,009	61,455	26,381
2005	25,057	48,566	53,820	75,408	22,929	29,652	55,477	23,993	11,556	9,250	11,443	21,706	32,276
2006	35,320	45,120	39,622	17,808	21,329	7,154	5,886	6,244	5,837	7,527	22,515	16,028	19,050
2007	33,662	18,938	15,181	8,991	6,108	5,134	4,901	4,707	4,723	4,309	3,839	3,165	9,435
2008	7,786	24,464	26,451	20,802	15,209	7,950	4,631	18,024	6,928	6,169	7,303	31,120	14,700
2009	40,441	12,469	64,619	57,266	48,971	12,629	7,417	8,929	35,781	50,553	62,849	94,831	41,626
2010	65,890	78,355	64,534	22,694	28,654	14,409	7,482	6,935	5,181	5,451	9,329	12,404	26,505
2011	14,004	23,221	60,570	41,496	10,379	6,155	7,480	5,812	8,578	5,773	10,662	26,855	18,395
2012	37,014	32,118	35,875	11,321	9,265	6,644	5,477	9,166	13,486	7,590	7,362	23,664	16,529
2013	44,753	88,872	47,521	42,851	52,125	20,322	37,927	24,577	12,093	11,961	13,373	52,492	37,150
2014	45,064	49,640	42,418	80,238	31,657	21,112	11,302	7,019	7,028	9,833	13,693	23,476	28,345

Non-Exceedance Percentiles

03150203 - Middle Alabama River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165	9,435
5th %	13,258	18,637	19,134	11,204	8,238	6,333	5,448	5,955	5,545	5,480	7,268	10,947	14,637
10th %	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217	16,476
15th %	23,970	26,224	28,409	15,970	10,302	7,488	7,211	6,805	6,459	6,495	7,812	15,355	17,397
20th %	25,364	30,938	34,574	20,203	12,426	7,901	7,468	6,970	6,957	6,807	9,255	15,998	18,919
30th %	31,499	41,053	41,580	23,063	14,734	11,520	8,208	8,287	7,184	7,821	10,653	19,598	23,719
40th %	34,308	47,470	47,787	35,764	16,748	13,215	10,077	8,909	8,621	9,209	13,705	22,238	27,609
Median	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925	30,993
60th %	49,427	53,976	64,568	45,761	23,790	16,751	13,435	12,441	12,172	11,852	18,009	30,025	33,669
70th %	52,905	58,464	69,858	53,419	32,047	20,559	15,964	13,917	13,492	12,615	26,270	37,718	36,140
80th %	59,896	65,656	84,196	65,963	48,994	25,368	22,374	16,866	15,292	16,260	31,322	49,419	39,120
90th %	73,254	86,847	96,714	88,972	52,688	28,465	38,452	24,052	18,870	25,644	46,255	63,434	41,627
Maximum	85,247	119,028	136,916	139,364	95,302	59,215	61,220	41,854	35,781	54,705	62,849	94,831	51,270
Average	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351	29,768

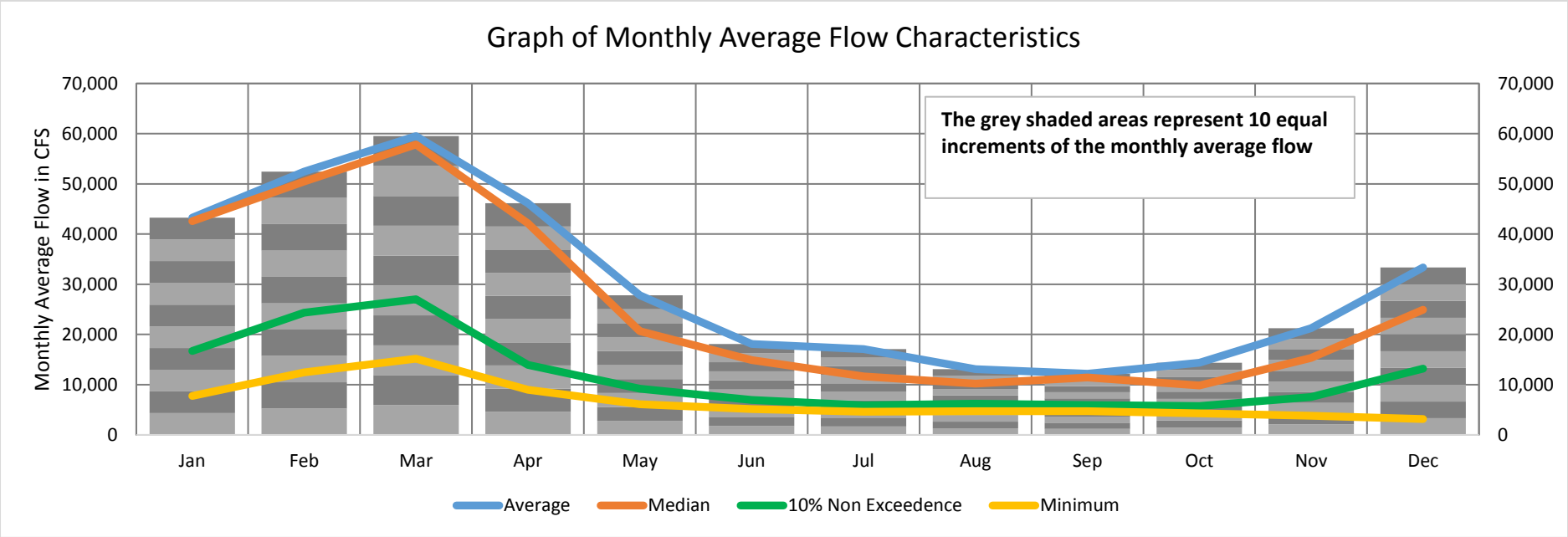
	Flows in CFS
Minimum	3,164.6
5th %	6,168
10th %	7,200
15th %	8,244
20th %	9,385
30th %	12,461
40th %	15,226
Median	20,411
60th %	26,920
70th %	37,822
80th %	50,557
90th %	62,713
Maximum	139,364
Average	29,893



Q10/Q50	0.35
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.15
Q5/DA	0.29
Q10/DA	0.34
Q15/DA	0.39
Q20/DA	0.44
Q30/DA	0.59
Q40/DA	0.72
Q50/DA	0.97
Q60/DA	1.27
Q70/DA	1.79
Q80/DA	2.39
Q90/DA	2.97
Qmax/DA	6.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

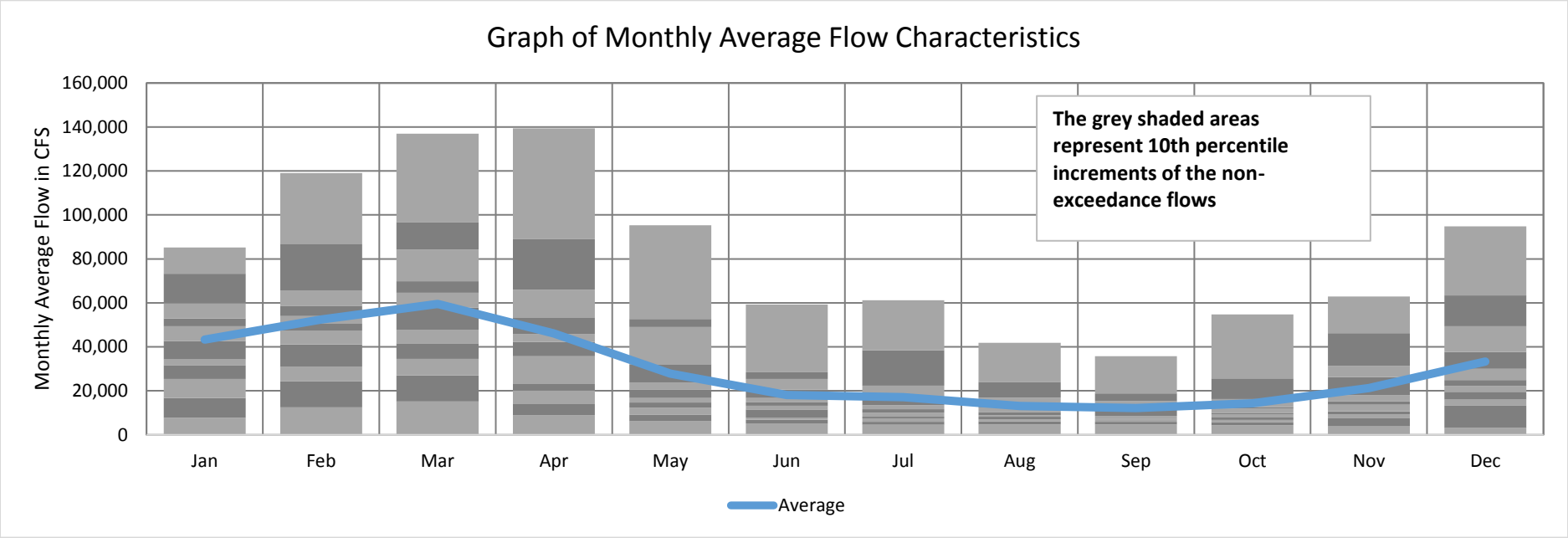
Site #: 03150203 Name: Middle Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351
100%	85,247	119,028	136,916	139,364	95,302	59,215	61,220	41,854	35,781	54,705	62,849	94,831
98%	82,647	106,837	121,862	123,502	76,444	53,927	57,534	39,805	33,747	51,466	62,092	89,823
95%	80,590	97,317	106,883	102,392	59,613	45,638	55,528	31,284	29,282	47,109	51,862	77,168
90%	73,254	86,847	96,714	88,972	52,688	28,465	38,452	24,052	18,870	25,644	46,255	63,434
75%	54,620	61,526	75,759	56,214	38,740	23,880	20,503	14,362	13,988	14,529	28,828	45,577
50%	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925
25%	28,677	31,916	37,902	21,960	13,503	9,167	7,526	7,682	7,052	7,413	10,172	18,243
10%	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217
5%	13,258	18,637	19,134	11,204	8,238	6,333	5,448	5,955	5,545	5,480	7,268	10,947
2%	9,086	12,829	16,150	8,994	7,674	5,930	4,842	5,569	5,080	5,199	6,010	9,130
0%	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165

Site #: 03150203 Name: Middle Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 21,140 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351
100%	85,247	119,028	136,916	139,364	95,302	59,215	61,220	41,854	35,781	54,705	62,849	94,831
98%	82,647	106,837	121,862	123,502	76,444	53,927	57,534	39,805	33,747	51,466	62,092	89,823
95%	80,590	97,317	106,883	102,392	59,613	45,638	55,528	31,284	29,282	47,109	51,862	77,168
90%	73,254	86,847	96,714	88,972	52,688	28,465	38,452	24,052	18,870	25,644	46,255	63,434
75%	54,620	61,526	75,759	56,214	38,740	23,880	20,503	14,362	13,988	14,529	28,828	45,577
50%	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925
25%	28,677	31,916	37,902	21,960	13,503	9,167	7,526	7,682	7,052	7,413	10,172	18,243
10%	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217
5%	13,258	18,637	19,134	11,204	8,238	6,333	5,448	5,955	5,545	5,480	7,268	10,947
2%	9,086	12,829	16,150	8,994	7,674	5,930	4,842	5,569	5,080	5,199	6,010	9,130
0%	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165

Monthly Flows (in CFS) for
03150204 - Alabama River Subbasin

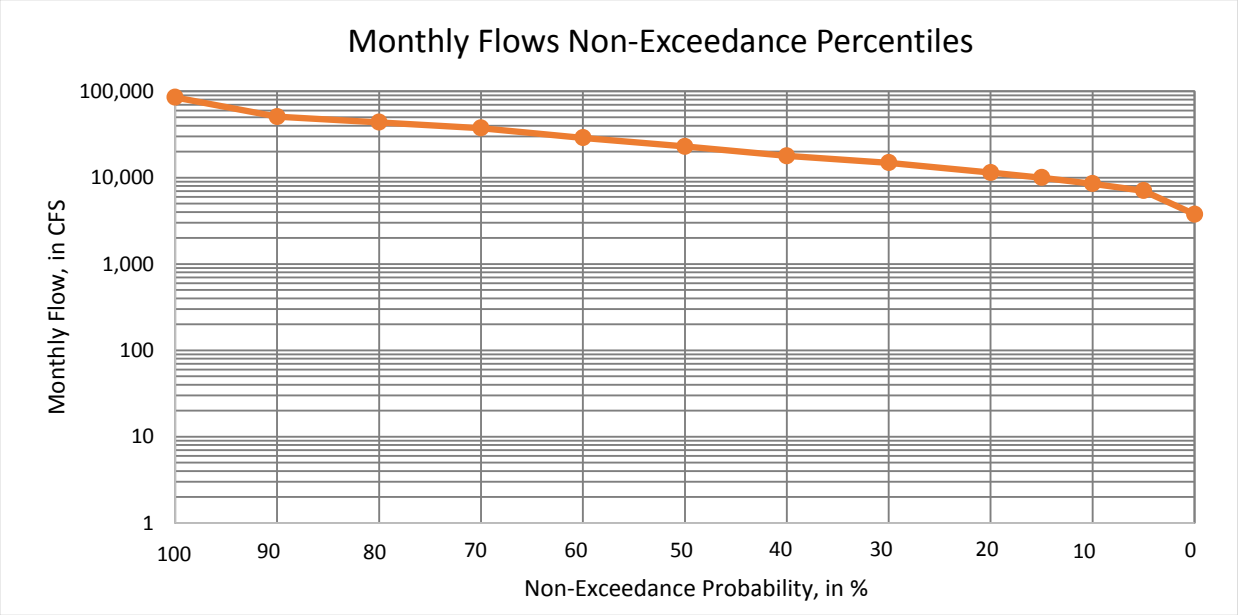
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	53,340	71,213	62,379	59,258	31,845	26,587	31,211	39,476	32,234	65,093	59,744	55,723	48,876
1976	63,678	38,874	45,569	49,324	37,700	24,405	47,128	23,537	26,073	38,987	37,847	58,370	41,047
1977	50,343	40,196	41,893	47,256	17,479	17,394	8,040	13,287	23,266	32,723	37,312	41,357	30,798
1978	65,617	35,601	27,777	21,646	33,527	20,925	25,572	36,419	38,219	41,392	29,898	34,017	34,278
1979	29,027	44,825	54,258	54,722	30,660	23,054	14,297	12,959	12,122	57,241	38,375	36,814	33,962
1980	43,134	43,704	66,683	66,753	46,683	21,594	13,858	10,057	8,485	14,878	15,849	15,288	30,499
1981	11,376	47,355	27,760	38,762	11,875	17,802	10,167	8,381	10,495	7,817	9,232	21,896	18,335
1982	48,359	66,222	43,353	41,252	34,025	18,236	17,061	15,681	8,363	13,398	19,250	53,699	31,397
1983	40,848	51,804	51,333	63,286	38,251	24,629	17,953	11,591	15,579	11,951	32,920	60,438	34,921
1984	57,250	41,229	48,629	43,631	42,475	17,461	18,272	44,062	14,173	13,519	17,839	30,251	32,427
1985	20,195	47,140	28,805	16,088	17,983	10,142	19,997	20,287	11,039	14,250	16,530	23,573	20,361
1986	15,828	27,179	38,504	10,887	9,706	8,965	7,802	7,761	6,558	6,474	27,533	35,962	16,883
1987	42,147	50,293	50,667	28,583	16,609	17,660	15,656	9,557	8,576	7,985	7,918	13,175	22,247
1988	34,986	31,471	18,742	17,008	9,983	8,359	9,084	7,059	23,798	14,071	27,345	18,557	18,256
1989	37,934	24,973	51,283	47,536	20,494	50,137	47,007	17,020	17,473	34,955	33,237	48,310	35,939
1990	56,988	67,957	84,829	37,703	26,563	13,543	13,353	10,789	8,662	11,142	12,972	19,344	30,144
1991	25,214	38,914	37,605	33,020	45,204	26,194	23,677	15,131	14,836	11,557	21,465	25,789	26,478
1992	47,795	50,663	48,070	26,305	12,939	21,219	14,202	19,311	20,888	14,367	54,263	62,601	32,594
1993	60,624	46,325	52,156	39,944	22,382	13,547	12,604	12,270	9,875	8,498	17,947	22,198	26,436
1994	28,748	41,850	48,341	49,600	18,531	15,666	41,609	21,773	18,891	26,667	19,720	41,949	31,080
1995	32,274	51,716	52,240	20,919	14,407	11,242	10,299	9,937	7,425	46,978	47,876	43,892	28,994
1996	45,622	62,422	64,125	37,192	22,863	18,505	14,315	15,894	17,991	15,376	20,046	34,312	30,541
1997	49,249	51,041	61,055	32,764	35,525	37,739	21,137	16,336	11,118	21,143	30,977	43,229	34,205
1998	58,303	71,309	70,642	48,870	25,558	17,030	11,256	12,213	13,914	17,390	12,371	17,585	31,133
1999	28,788	42,567	32,737	17,420	17,208	21,774	32,526	10,289	7,729	9,854	9,476	13,126	20,176
2000	19,468	15,285	28,415	33,796	10,342	7,570	6,998	7,065	7,019	6,461	12,076	16,101	14,198
2001	25,222	29,630	76,572	44,994	15,399	26,605	16,713	14,864	16,838	8,861	10,645	20,051	25,507
2002	31,394	28,010	28,277	22,694	17,555	9,078	8,720	8,227	13,307	17,083	37,613	51,020	22,728
2003	30,041	42,970	49,459	42,276	68,557	47,329	54,734	31,861	15,655	11,827	20,483	23,713	36,579
2004	25,765	43,528	18,712	13,044	16,031	13,863	13,732	9,883	35,451	17,214	43,579	48,041	24,733
2005	25,484	42,499	47,846	58,701	25,632	28,398	49,541	26,912	12,938	9,143	10,178	22,732	29,924
2006	30,146	41,113	41,799	18,872	21,058	7,175	6,207	6,084	5,276	6,726	23,164	17,720	18,651
2007	36,745	20,611	16,844	10,560	5,867	5,289	4,317	4,159	3,763	6,657	4,965	3,929	10,270
2008	9,990	39,011	29,957	23,648	15,147	7,805	4,168	16,414	7,980	6,345	7,635	29,711	16,351
2009	36,557	14,751	49,178	44,318	45,348	19,003	8,633	11,173	26,874	45,564	55,089	53,321	34,286
2010	49,257	51,310	48,918	23,798	29,917	17,376	8,621	7,841	5,968	6,386	10,284	14,279	22,688
2011	14,857	24,506	41,806	35,634	13,213	7,332	9,005	6,269	8,451	6,745	12,946	27,354	17,298
2012	33,868	34,900	34,157	14,989	10,436	9,117	6,467	10,551	15,720	9,008	8,866	24,455	17,631
2013	35,828	62,582	40,588	39,852	45,454	22,831	37,963	28,431	14,744	11,549	14,014	48,497	33,406
2014	39,028	44,184	40,380	46,883	35,953	23,331	13,410	7,542	7,568	11,407	15,178	20,192	25,291

Non-Exceedance Percentiles

03150204 - Alabama River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929	10,270
5th %	14,683	20,345	18,741	12,936	9,969	7,324	6,112	6,260	5,933	6,457	7,904	13,173	16,243
10th %	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187	17,257
15th %	24,461	27,885	28,395	17,359	12,780	8,874	8,004	7,728	7,546	6,742	10,073	17,362	18,162
20th %	25,432	31,103	29,727	20,509	14,169	9,109	8,631	8,150	7,930	7,952	10,573	18,390	18,588
30th %	28,955	38,902	38,234	23,753	16,436	13,546	9,842	9,921	8,549	9,102	12,965	21,385	22,556
40th %	31,922	41,183	41,803	32,917	17,812	17,238	13,053	10,694	10,821	11,493	16,257	23,657	25,421
Median	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532	29,459
60th %	39,756	44,440	48,745	40,467	26,004	19,771	16,079	14,971	14,781	14,297	22,145	34,972	30,644
70th %	46,274	48,236	50,852	44,521	32,350	22,091	18,790	16,359	16,056	17,122	30,222	42,333	31,706
80th %	49,474	51,392	52,644	47,803	36,302	24,450	26,700	20,585	19,290	27,879	37,372	48,347	34,011
90th %	57,355	62,946	64,380	55,120	45,218	26,784	42,148	28,774	26,153	41,809	44,008	53,901	35,023
Maximum	65,617	71,309	84,829	66,753	68,557	50,137	54,734	44,062	38,219	65,093	59,744	62,601	48,876
Average	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314	27,289

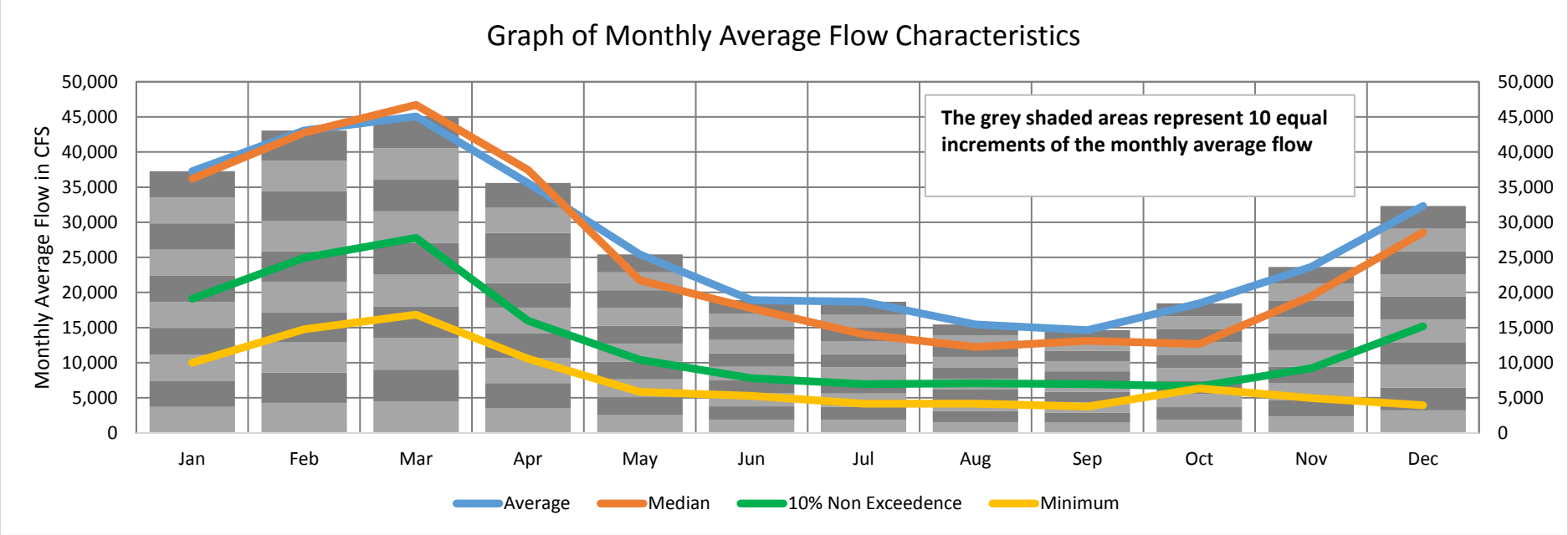
	Flows in CFS
Minimum	3,763.4
5th %	7,057
10th %	8,482
15th %	9,976
20th %	11,401
30th %	14,862
40th %	17,824
Median	22,959
60th %	28,894
70th %	37,400
80th %	43,646
90th %	50,703
Maximum	84,829
Average	27,372



Q10/Q50	0.37
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.17
Q5/DA	0.31
Q10/DA	0.37
Q15/DA	0.44
Q20/DA	0.50
Q30/DA	0.65
Q40/DA	0.78
Q50/DA	1.01
Q60/DA	1.27
Q70/DA	1.64
Q80/DA	1.92
Q90/DA	2.23
Qmax/DA	3.73

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

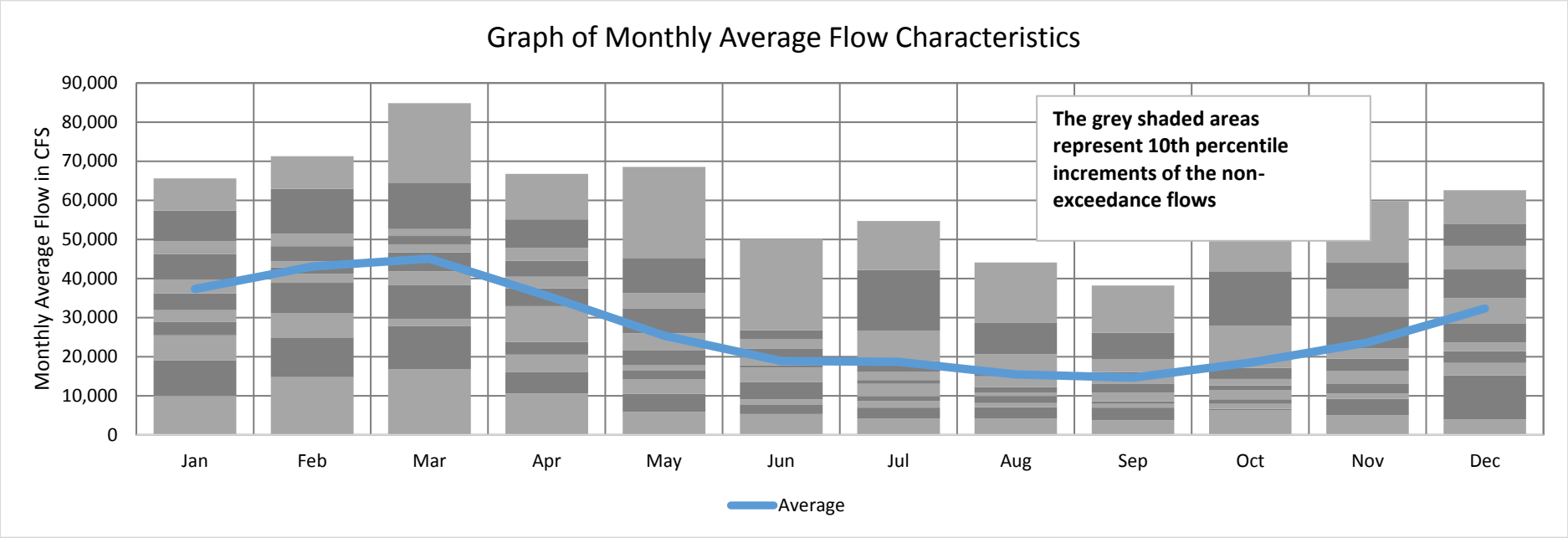
Site #: 03150204 Name: Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314
100%	65,617	71,309	84,829	66,753	68,557	50,137	54,734	44,062	38,219	65,093	59,744	62,601
98%	64,105	71,234	78,388	64,049	51,495	47,946	50,683	40,485	36,060	58,968	56,113	60,914
95%	60,776	68,119	70,938	59,459	45,516	38,219	47,249	36,572	32,395	47,491	54,304	58,473
90%	57,355	62,946	64,380	55,120	45,218	26,784	42,148	28,774	26,153	41,809	44,008	53,901
75%	48,582	50,757	51,539	46,976	34,400	23,123	21,772	17,592	17,602	18,328	32,999	44,929
50%	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532
25%	28,002	35,426	33,802	22,432	15,336	10,967	8,934	9,263	8,429	8,770	12,297	19,874
10%	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187
5%	14,683	20,345	18,741	12,936	9,969	7,324	6,112	6,260	5,933	6,457	7,904	13,173
2%	11,071	15,167	18,301	10,815	8,861	6,760	4,285	5,661	4,943	6,377	7,048	11,103
0%	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929

Site #: 03150204 Name: Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 22,750 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314
100%	65,617	71,309	84,829	66,753	68,557	50,137	54,734	44,062	38,219	65,093	59,744	62,601
98%	64,105	71,234	78,388	64,049	51,495	47,946	50,683	40,485	36,060	58,968	56,113	60,914
95%	60,776	68,119	70,938	59,459	45,516	38,219	47,249	36,572	32,395	47,491	54,304	58,473
90%	57,355	62,946	64,380	55,120	45,218	26,784	42,148	28,774	26,153	41,809	44,008	53,901
75%	48,582	50,757	51,539	46,976	34,400	23,123	21,772	17,592	17,602	18,328	32,999	44,929
50%	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532
25%	28,002	35,426	33,802	22,432	15,336	10,967	8,934	9,263	8,429	8,770	12,297	19,874
10%	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187
5%	14,683	20,345	18,741	12,936	9,969	7,324	6,112	6,260	5,933	6,457	7,904	13,173
2%	11,071	15,167	18,301	10,815	8,861	6,760	4,285	5,661	4,943	6,377	7,048	11,103
0%	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929

Monthly Flows (in CFS) for

03160103 - Buttahatchee River Subbasin in Alabama

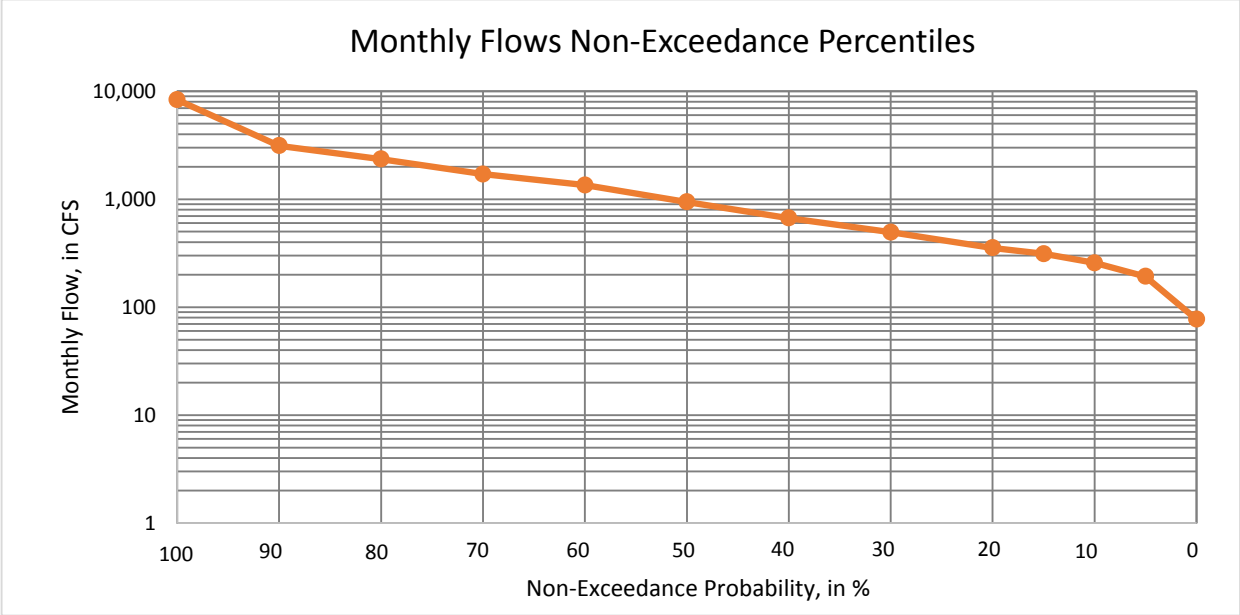
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,461	3,500	5,057	2,478	1,252	1,045	823	1,175	717	2,349	1,387	1,352	2,130
1976	2,126	2,373	2,747	1,752	1,116	833	460	281	552	339	472	1,019	1,166
1977	1,983	1,525	5,213	2,547	524	344	338	287	541	1,558	2,938	2,358	1,682
1978	1,933	960	1,988	739	2,665	1,060	310	238	226	227	303	758	955
1979	3,860	2,127	3,128	4,186	1,328	583	636	386	1,051	405	2,576	1,396	1,799
1980	2,272	1,575	6,815	3,931	2,350	637	391	257	345	776	1,219	833	1,788
1981	667	1,485	1,307	2,038	530	421	450	261	243	229	288	657	708
1982	3,913	1,997	1,767	3,077	813	493	515	757	208	258	501	3,058	1,446
1983	1,660	3,602	3,283	5,647	4,438	1,394	699	278	298	280	1,057	5,293	2,319
1984	2,355	1,443	2,017	2,694	3,655	495	341	266	156	1,149	2,408	1,486	1,541
1985	1,020	2,876	971	1,038	3,466	590	621	602	332	486	799	696	1,115
1986	519	1,347	1,353	461	730	1,192	240	190	193	367	2,219	1,828	881
1987	2,445	2,163	3,124	767	418	539	251	170	162	135	275	464	904
1988	952	1,153	704	1,162	317	137	164	117	499	860	1,808	1,105	743
1989	4,390	2,546	4,163	1,658	1,057	1,502	1,759	442	479	1,420	1,245	897	1,797
1990	3,591	5,070	3,135	1,129	2,126	1,093	340	202	194	220	335	4,906	1,848
1991	1,761	5,459	3,109	6,130	8,329	1,418	601	455	418	310	452	4,342	2,716
1992	909	1,334	1,520	861	315	385	329	392	385	257	833	1,317	733
1993	1,752	1,524	2,375	2,016	1,429	605	308	427	330	274	682	1,100	1,066
1994	2,050	4,763	3,439	1,677	589	726	1,880	561	425	758	1,088	1,593	1,610
1995	1,585	2,709	3,785	3,023	1,461	986	592	384	219	368	968	2,162	1,513
1996	3,369	1,890	1,965	2,081	682	510	444	456	710	509	1,404	2,943	1,412
1997	3,070	2,084	2,826	1,071	3,825	5,020	1,440	529	374	562	668	1,492	1,913
1998	4,336	2,561	3,211	1,399	612	434	656	680	218	221	376	1,659	1,362
1999	3,992	2,229	2,376	1,644	1,799	569	473	150	134	166	278	380	1,180
2000	741	615	917	3,608	350	263	163	98	82	77	490	794	679
2001	2,131	2,924	2,522	2,878	676	2,104	359	302	491	768	421	3,138	1,549
2002	2,624	1,496	2,099	2,065	3,532	408	502	340	542	878	2,037	2,356	1,577
2003	1,238	4,411	3,119	1,731	4,807	1,152	761	1,267	732	457	1,077	1,439	1,836
2004	1,596	4,599	2,942	816	509	1,118	949	561	570	614	3,266	4,742	1,839
2005	1,639	1,743	1,485	2,439	671	1,353	1,013	457	1,474	422	696	1,672	1,249
2006	2,733	2,776	1,415	1,227	1,031	342	155	167	254	565	1,731	760	1,085
2007	2,434	1,277	831	554	313	171	273	122	252	334	395	404	611
2008	600	1,930	1,486	1,160	1,456	455	155	229	256	189	334	3,480	974
2009	2,725	937	3,492	2,069	3,093	532	235	356	1,139	3,139	1,885	2,615	1,864
2010	2,663	2,802	1,698	1,481	2,873	902	344	331	184	181	355	598	1,193
2011	1,975	997	2,717	3,806	1,143	350	309	316	565	206	301	1,502	1,183
2012	1,970	1,440	1,556	798	658	325	234	243	496	678	309	1,362	838
2013	3,580	2,035	2,239	2,062	2,032	534	816	490	372	319	505	1,541	1,377
2014	1,563	2,600	1,146	2,387	795	918	413	248	148	571	819	2,480	1,163

Non-Exceedance Percentiles

03160103 - Buttahatchee River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	519	615	704	461	313	137	155	98	82	77	275	380	611
5th %	663	959	913	730	317	258	163	121	147	164	287	461	706
10th %	892	1,137	1,129	795	411	340	227	165	161	188	303	651	742
15th %	1,010	1,325	1,346	854	522	349	239	187	191	218	330	749	875
20th %	1,498	1,421	1,471	1,064	578	403	268	223	205	225	351	787	944
30th %	1,654	1,516	1,655	1,208	674	482	323	254	238	269	443	1,076	1,106
40th %	1,955	1,831	2,005	1,652	806	533	343	280	281	328	503	1,358	1,182
Median	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489	1,370
60th %	2,387	2,287	2,779	2,067	1,440	769	485	385	421	495	1,003	1,619	1,524
70th %	2,682	2,633	3,121	2,451	2,060	1,003	607	446	497	584	1,227	2,220	1,632
80th %	3,411	2,886	3,225	2,907	2,917	1,125	711	498	554	769	1,746	2,681	1,807
90th %	3,921	4,430	3,823	3,819	3,672	1,396	955	610	719	1,176	2,238	3,566	1,869
Maximum	4,461	5,459	6,815	6,130	8,329	5,020	1,880	1,267	1,474	3,139	3,266	5,293	2,716
Average	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849	1,384

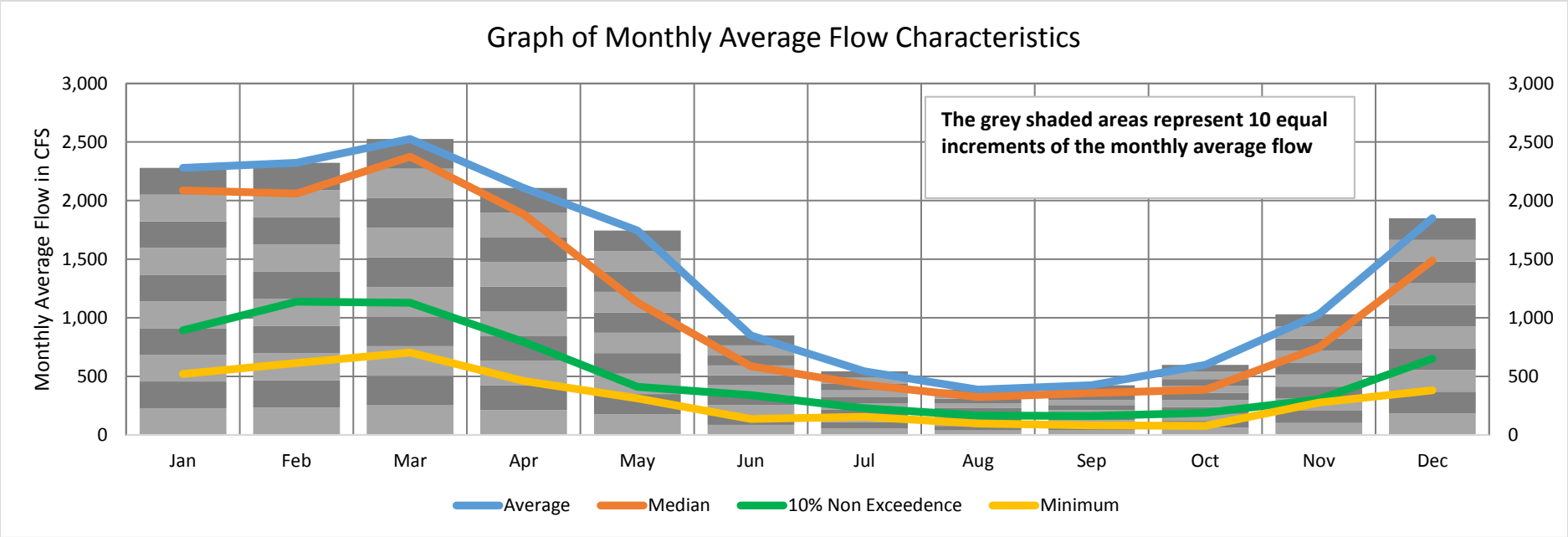
	Flows in CFS
Minimum	77.0
5th %	193
10th %	257
15th %	312
20th %	354
30th %	494
40th %	668
Median	943
60th %	1,349
70th %	1,708
80th %	2,351
90th %	3,129
Maximum	8,329
Average	1,388



Q10/Q50	0.27
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.10
Q5/DA	0.24
Q10/DA	0.32
Q15/DA	0.39
Q20/DA	0.44
Q30/DA	0.62
Q40/DA	0.84
Q50/DA	1.18
Q60/DA	1.69
Q70/DA	2.14
Q80/DA	2.95
Q90/DA	3.92
Qmax/DA	10.44

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

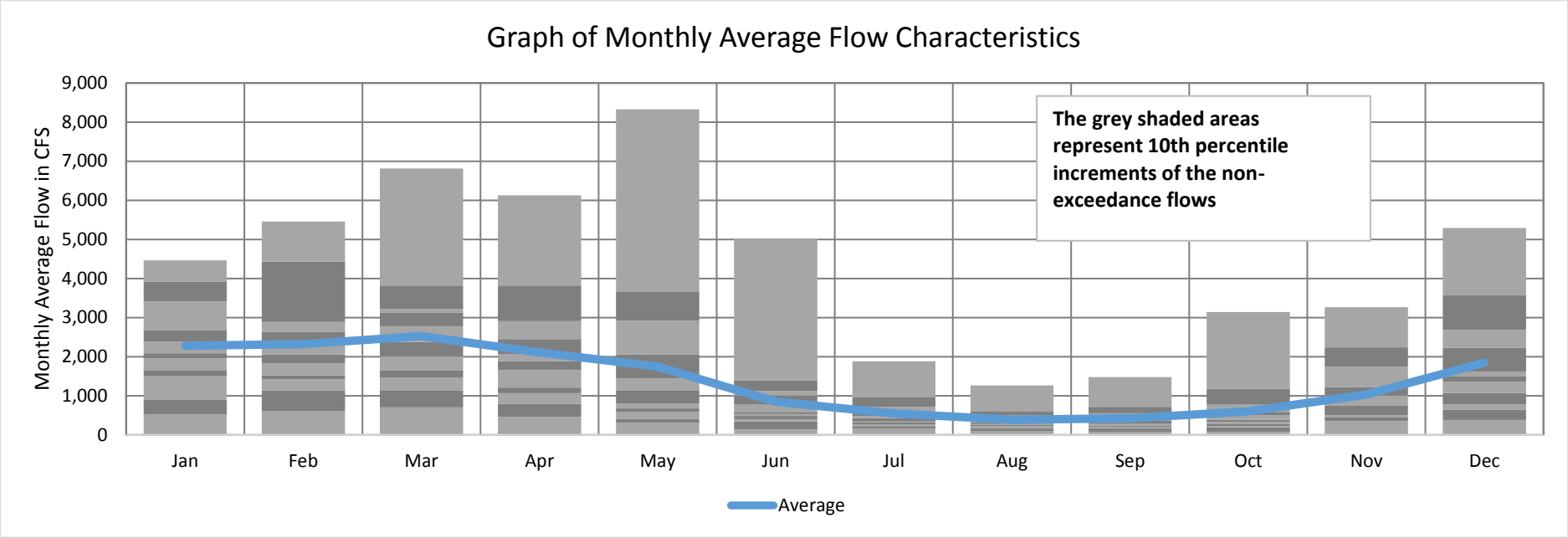
Site #: 03160103 Name: Buttahatchee River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849
100%	4,461	5,459	6,815	6,130	8,329	5,020	1,880	1,267	1,474	3,139	3,266	5,293
98%	4,406	5,156	5,565	5,753	5,582	2,746	1,786	1,195	1,213	2,523	3,010	4,991
95%	4,339	4,778	5,065	4,259	4,456	1,532	1,456	778	1,055	1,598	2,594	4,750
90%	3,921	4,430	3,823	3,819	3,672	1,396	955	610	719	1,176	2,238	3,566
75%	2,817	2,783	3,130	2,584	2,429	1,068	641	456	541	698	1,391	2,389
50%	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489
25%	1,593	1,475	1,512	1,152	646	430	309	242	219	250	390	881
10%	892	1,137	1,129	795	411	340	227	165	161	188	303	651
5%	663	959	913	730	317	258	163	121	147	164	287	461
2%	582	866	803	533	314	163	155	113	122	122	278	398
0%	519	615	704	461	313	137	155	98	82	77	275	380

Site #: 03160103 Name: Buttahatchee River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 798 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849
100%	4,461	5,459	6,815	6,130	8,329	5,020	1,880	1,267	1,474	3,139	3,266	5,293
98%	4,406	5,156	5,565	5,753	5,582	2,746	1,786	1,195	1,213	2,523	3,010	4,991
95%	4,339	4,778	5,065	4,259	4,456	1,532	1,456	778	1,055	1,598	2,594	4,750
90%	3,921	4,430	3,823	3,819	3,672	1,396	955	610	719	1,176	2,238	3,566
75%	2,817	2,783	3,130	2,584	2,429	1,068	641	456	541	698	1,391	2,389
50%	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489
25%	1,593	1,475	1,512	1,152	646	430	309	242	219	250	390	881
10%	892	1,137	1,129	795	411	340	227	165	161	188	303	651
5%	663	959	913	730	317	258	163	121	147	164	287	461
2%	582	866	803	533	314	163	155	113	122	122	278	398
0%	519	615	704	461	313	137	155	98	82	77	275	380

Monthly Flows (in CFS) for
03160105 - Luxapallila Creek Subbasin in Alabama

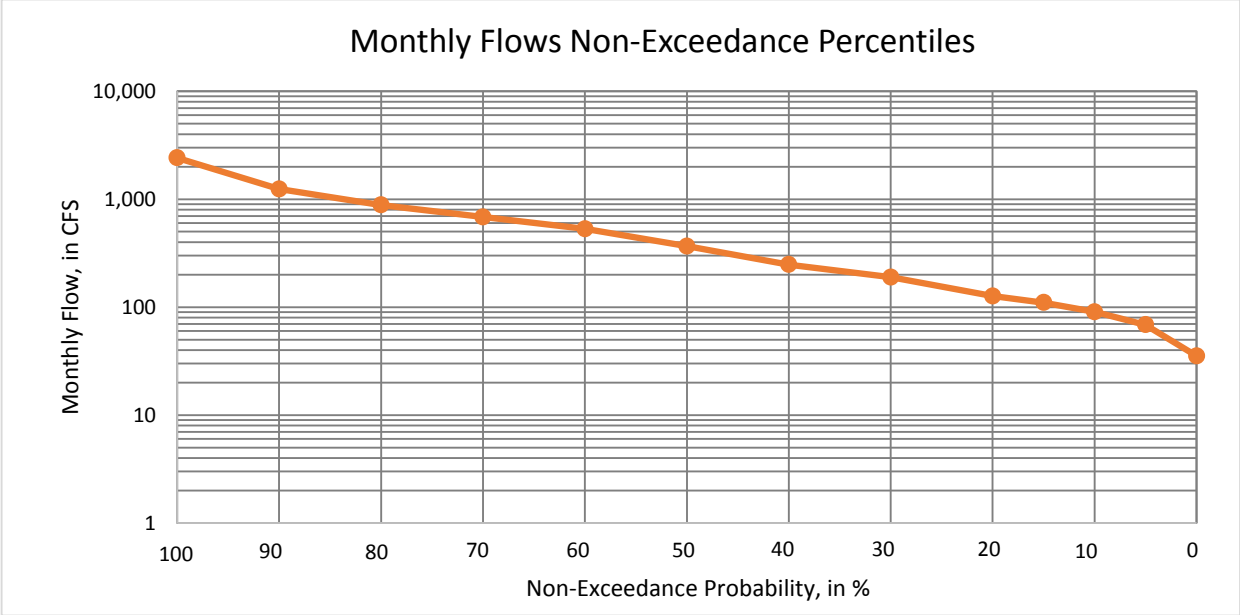
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,413	1,420	1,726	748	564	306	468	580	231	968	406	541	780
1976	883	907	1,431	636	927	324	224	126	193	142	241	605	553
1977	1,035	555	1,600	1,401	153	98	109	107	220	688	856	861	641
1978	749	423	766	270	1,073	410	104	86	66	64	112	337	373
1979	1,617	906	1,275	2,080	615	364	540	170	893	231	878	566	842
1980	900	711	2,299	1,934	986	248	142	92	93	197	465	347	701
1981	259	536	631	890	175	225	79	87	72	92	114	239	281
1982	1,511	878	621	1,186	254	198	174	208	64	101	379	1,373	578
1983	901	1,643	1,551	1,759	1,606	498	253	90	121	122	360	2,165	919
1984	955	772	940	1,314	991	165	124	130	68	238	524	590	566
1985	422	1,081	410	421	654	244	145	182	116	223	317	361	377
1986	243	341	581	167	204	195	71	74	66	104	381	527	246
1987	756	849	966	277	146	115	72	49	48	47	83	147	294
1988	372	493	242	361	90	41	50	38	99	198	528	290	231
1989	1,557	985	1,158	705	440	732	700	182	156	392	464	441	658
1990	1,526	1,859	1,241	478	538	376	156	73	69	85	133	1,634	676
1991	610	1,819	1,169	2,126	2,412	577	202	157	142	123	212	643	842
1992	389	632	545	357	110	168	204	244	187	88	564	745	351
1993	1,020	752	696	665	457	175	188	114	91	76	248	325	399
1994	617	1,361	1,343	858	211	315	873	202	161	266	339	700	600
1995	835	863	1,254	1,538	339	164	159	144	153	391	458	691	580
1996	1,264	841	871	1,639	306	210	676	218	233	192	513	702	637
1997	1,157	890	980	372	960	1,280	346	200	118	179	251	420	595
1998	1,539	912	1,123	733	220	163	294	297	94	80	157	572	515
1999	1,527	989	784	529	326	255	235	65	59	74	103	179	425
2000	315	262	537	1,372	105	81	48	40	35	43	159	173	263
2001	592	951	1,232	729	236	711	156	96	289	362	187	987	541
2002	933	753	733	534	637	127	233	102	212	411	887	886	537
2003	496	1,576	1,187	740	1,272	663	475	533	214	256	523	648	710
2004	682	1,560	948	329	202	645	498	214	242	242	657	1,439	633
2005	570	804	629	1,135	353	718	465	219	370	157	201	524	509
2006	927	1,402	867	326	318	82	61	61	84	334	600	300	441
2007	870	525	299	186	107	57	118	55	63	77	123	140	217
2008	205	756	632	423	492	120	50	127	120	118	134	1,198	363
2009	1,561	590	1,749	708	777	342	116	186	621	1,327	725	1,249	834
2010	856	905	965	606	844	265	105	121	77	68	215	404	451
2011	675	499	1,256	1,781	440	103	110	100	288	78	126	527	498
2012	830	702	718	328	189	99	111	126	150	253	135	600	353
2013	1,509	1,058	956	919	657	188	400	240	121	126	189	620	580
2014	501	996	567	1,225	421	352	157	76	71	110	195	890	459

Non-Exceedance Percentiles

03160105 - Luxapallila Creek Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	205	262	242	167	90	41	48	38	35	43	83	140	217
5th %	258	419	404	266	107	79	50	49	58	64	112	172	245
10th %	366	499	544	321	142	96	70	60	64	74	122	233	279
15th %	417	534	579	329	172	102	78	72	66	76	132	299	342
20th %	500	583	628	360	200	119	105	76	69	79	135	335	361
30th %	615	740	712	461	231	165	115	92	81	98	188	415	417
40th %	753	791	833	624	323	192	144	105	97	120	213	527	482
Median	863	870	952	718	430	235	158	126	121	150	284	581	539
60th %	911	906	1,037	792	510	281	203	149	152	198	380	629	579
70th %	1,024	986	1,201	1,150	642	345	240	183	189	239	465	701	610
80th %	1,432	1,137	1,260	1,378	861	428	413	209	222	280	525	887	662
90th %	1,528	1,562	1,556	1,762	999	667	503	240	288	394	664	1,261	785
Maximum	1,617	1,859	2,299	2,126	2,412	1,280	873	580	893	1,327	887	2,165	919
Average	889	919	987	870	545	310	242	155	169	233	354	665	526

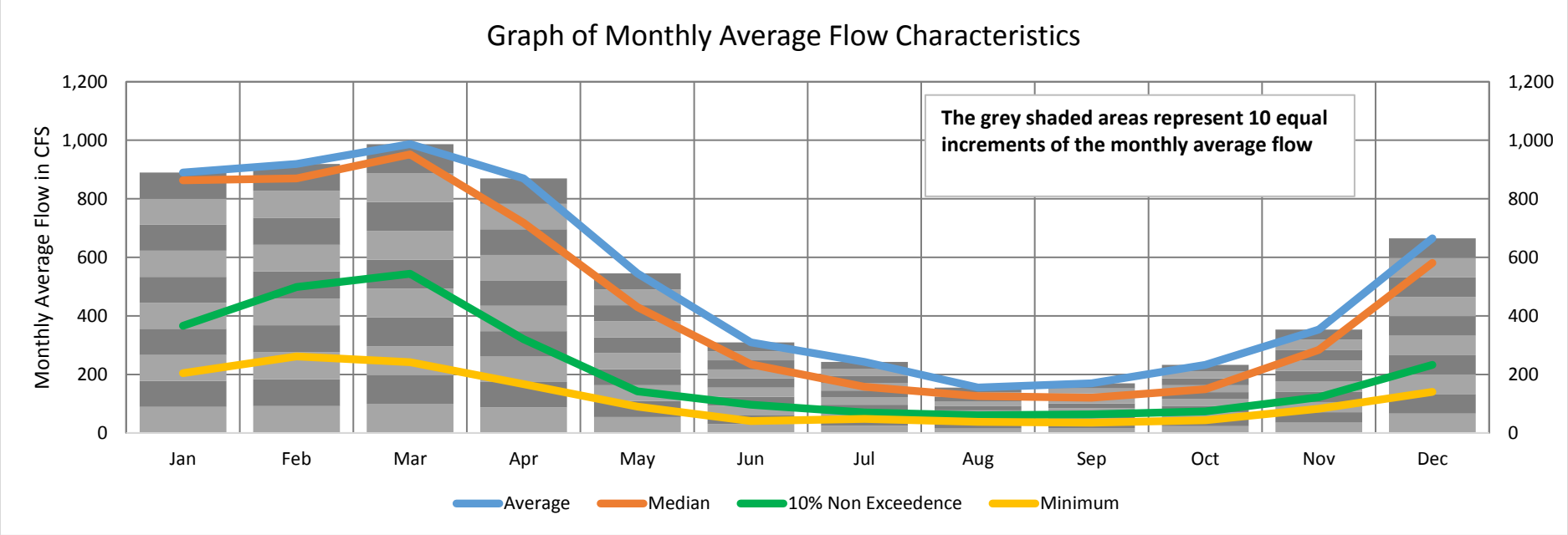
	Flows in CFS
Minimum	35.3
5th %	69
10th %	90
15th %	110
20th %	127
30th %	189
40th %	248
Median	367
60th %	531
70th %	684
80th %	884
90th %	1,242
Maximum	2,412
Average	528



Q10/Q50	0.25
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.11
Q5/DA	0.22
Q10/DA	0.29
Q15/DA	0.36
Q20/DA	0.41
Q30/DA	0.61
Q40/DA	0.80
Q50/DA	1.19
Q60/DA	1.72
Q70/DA	2.21
Q80/DA	2.86
Q90/DA	4.02
Qmax/DA	7.80

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

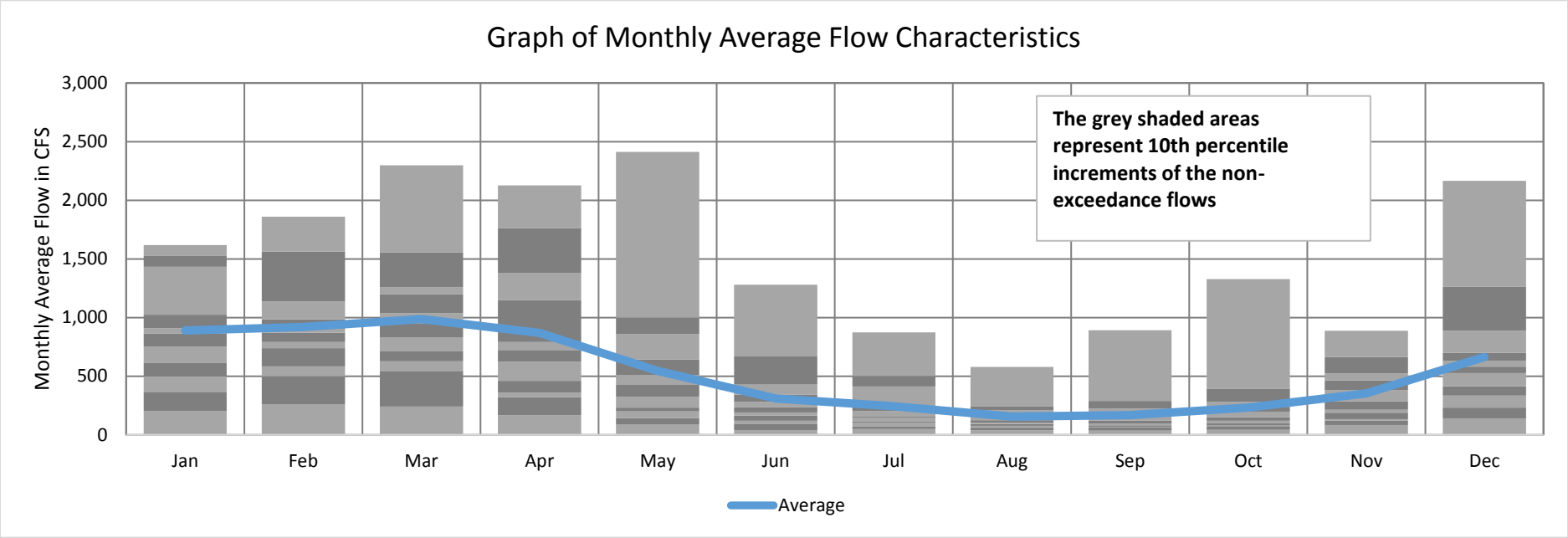
Site #: 03160105 Name: Luxapallila Creek Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	889	919	987	870	545	310	242	155	169	233	354	665
100%	1,617	1,859	2,299	2,126	2,412	1,280	873	580	893	1,327	887	2,165
98%	1,573	1,828	1,870	2,090	1,783	852	738	543	681	1,047	880	1,751
95%	1,557	1,652	1,727	1,941	1,288	719	677	309	383	702	857	1,449
90%	1,528	1,562	1,556	1,762	999	667	503	240	288	394	664	1,261
75%	1,184	1,011	1,244	1,247	687	367	307	201	212	254	516	774
50%	863	870	952	718	430	235	158	126	121	150	284	581
25%	586	685	632	409	209	154	110	87	72	87	158	357
10%	366	499	544	321	142	96	70	60	64	74	122	233
5%	258	419	404	266	107	79	50	49	58	64	112	172
2%	235	323	286	182	102	53	50	40	45	47	98	146
0%	205	262	242	167	90	41	48	38	35	43	83	140

Site #: 03160105 Name: Luxapallila Creek Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 309 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	889	919	987	870	545	310	242	155	169	233	354	665
100%	1,617	1,859	2,299	2,126	2,412	1,280	873	580	893	1,327	887	2,165
98%	1,573	1,828	1,870	2,090	1,783	852	738	543	681	1,047	880	1,751
95%	1,557	1,652	1,727	1,941	1,288	719	677	309	383	702	857	1,449
90%	1,528	1,562	1,556	1,762	999	667	503	240	288	394	664	1,261
75%	1,184	1,011	1,244	1,247	687	367	307	201	212	254	516	774
50%	863	870	952	718	430	235	158	126	121	150	284	581
25%	586	685	632	409	209	154	110	87	72	87	158	357
10%	366	499	544	321	142	96	70	60	64	74	122	233
5%	258	419	404	266	107	79	50	49	58	64	112	172
2%	235	323	286	182	102	53	50	40	45	47	98	146
0%	205	262	242	167	90	41	48	38	35	43	83	140

Monthly Flows (in CFS) for
03160106 - Upper Tombigbee River Subbasin

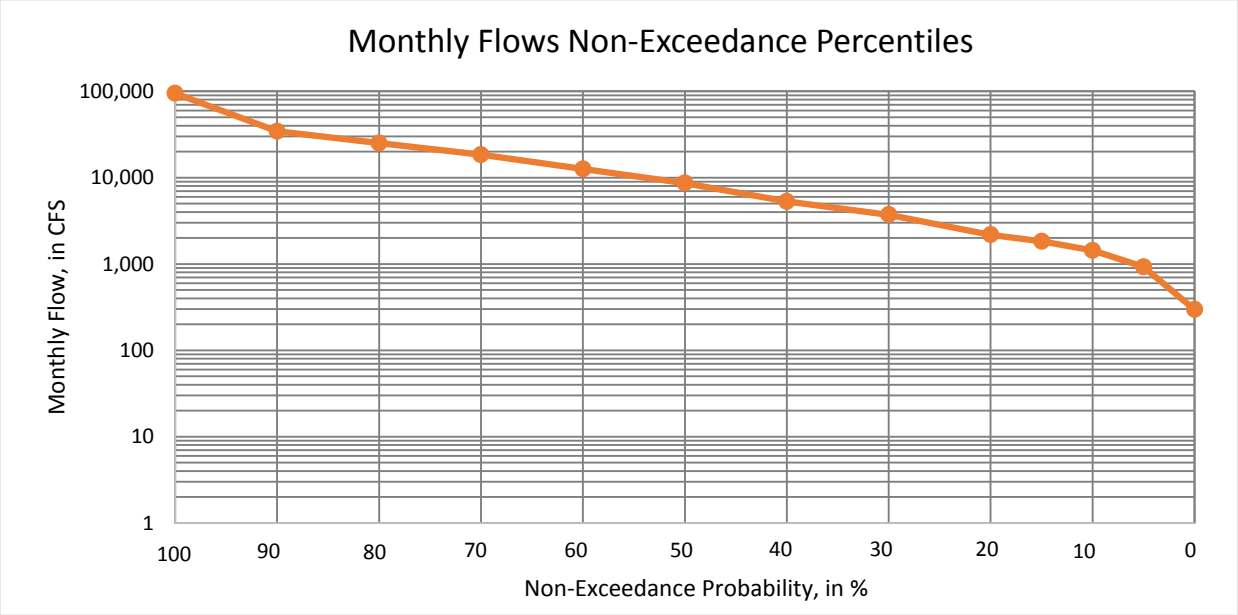
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	49,503	37,722	49,369	34,187	14,725	9,073	5,334	10,994	4,120	18,777	8,084	13,108	21,195
1976	24,396	24,626	45,517	38,117	18,136	6,119	2,915	2,076	3,801	1,975	2,833	10,802	15,057
1977	24,023	9,918	55,168	40,896	4,212	1,988	2,002	1,692	4,437	12,581	19,155	24,760	16,793
1978	21,550	11,457	23,329	5,660	31,703	9,764	1,922	944	454	465	999	4,759	9,457
1979	40,994	23,630	36,101	56,361	13,564	8,528	11,423	2,864	20,615	4,345	20,131	20,447	21,514
1980	26,985	20,498	59,751	68,319	22,373	4,962	1,847	1,115	1,144	3,464	7,449	5,627	18,592
1981	2,879	12,553	12,901	18,448	3,918	4,312	1,252	783	1,120	1,049	931	3,449	5,230
1982	30,740	21,773	15,980	35,502	7,092	3,575	3,531	4,384	1,264	2,033	4,200	55,537	15,463
1983	38,270	57,745	51,788	75,328	50,426	14,749	5,198	1,163	1,665	1,457	10,917	55,499	30,177
1984	28,443	17,602	23,175	29,594	35,926	2,269	1,736	1,823	432	7,741	8,457	11,139	14,041
1985	8,492	40,168	9,238	10,247	17,219	4,184	2,894	4,431	2,019	6,325	5,846	7,983	9,719
1986	3,750	8,916	13,438	2,817	4,235	8,998	1,230	1,044	949	2,526	19,604	20,865	7,344
1987	22,184	26,043	34,293	5,899	3,582	3,782	1,914	773	927	594	1,765	3,982	8,732
1988	9,178	12,145	7,590	13,014	2,090	709	1,532	758	2,851	5,387	9,215	8,532	6,030
1989	45,353	30,228	39,985	18,374	14,261	26,582	22,351	3,166	2,952	8,327	12,526	9,571	19,432
1990	47,296	67,365	32,264	9,255	11,711	7,130	2,025	843	697	886	1,642	34,610	17,717
1991	18,427	47,221	34,502	59,164	94,529	31,611	3,462	2,555	2,213	1,562	3,568	30,264	27,296
1992	9,400	16,007	15,214	8,515	1,856	4,787	2,934	5,456	4,919	1,542	17,800	18,128	8,820
1993	28,152	19,914	16,158	21,756	16,367	3,186	2,091	3,891	1,929	1,654	5,182	8,814	10,713
1994	15,593	33,024	33,803	25,544	4,357	11,217	18,848	3,230	2,918	6,363	7,210	19,976	15,065
1995	20,233	22,966	45,530	30,082	8,467	3,630	2,657	4,003	915	3,115	8,841	20,316	14,195
1996	28,853	23,073	25,571	25,549	4,295	4,091	4,363	4,018	4,072	2,716	8,697	26,007	13,394
1997	33,371	28,722	30,176	11,636	24,908	38,663	9,286	3,871	1,963	4,168	5,554	15,343	17,242
1998	45,732	29,260	30,407	15,199	6,996	2,988	6,364	5,615	1,131	1,339	2,420	16,174	13,597
1999	39,827	31,801	27,497	15,567	9,632	7,233	6,811	660	632	991	1,479	2,396	11,945
2000	5,496	5,105	10,636	41,784	2,092	1,491	634	442	296	444	4,193	7,469	6,629
2001	22,093	30,321	34,543	21,679	3,543	12,822	2,104	2,293	6,374	11,645	4,819	37,443	15,735
2002	31,194	20,202	24,378	17,698	19,871	1,789	3,005	1,289	7,464	14,201	20,352	25,693	15,598
2003	11,616	48,644	32,390	28,288	38,299	17,634	9,506	12,102	5,156	4,180	12,051	14,317	19,317
2004	17,745	49,797	27,142	8,821	6,087	16,588	13,923	3,376	4,254	7,468	23,693	46,518	18,589
2005	15,963	21,770	15,281	26,900	4,831	18,830	12,953	5,540	13,246	2,284	3,263	12,339	12,662
2006	27,816	38,805	21,302	4,120	9,579	1,445	865	746	1,448	7,187	11,545	6,706	10,804
2007	26,517	10,924	6,812	3,374	1,283	713	1,816	595	1,134	1,829	1,586	2,449	4,905
2008	4,447	19,233	15,212	13,370	12,490	3,185	783	3,104	2,540	2,348	1,913	34,319	9,377
2009	32,304	7,834	50,641	12,540	27,739	4,386	1,465	2,808	21,454	34,744	14,898	28,647	20,127
2010	26,439	25,136	20,702	10,952	21,867	5,013	1,989	1,631	1,088	787	2,180	4,837	10,155
2011	13,161	8,972	29,473	37,327	11,129	1,983	1,533	1,520	5,712	977	2,163	14,081	10,671
2012	18,708	18,849	25,006	7,671	3,833	1,277	2,338	2,131	4,990	5,683	2,145	16,357	9,058
2013	40,530	29,695	25,047	26,158	17,908	5,143	6,682	3,474	2,190	1,637	3,904	14,244	14,653
2014	11,234	24,865	16,327	42,803	10,949	12,388	4,545	1,473	1,275	5,349	5,769	18,405	12,822

Non-Exceedance Percentiles

03160106 - Upper Tombigbee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396	4,905
5th %	4,412	8,862	9,156	4,082	2,078	1,249	861	657	453	587	1,455	3,399	5,990
10th %	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681	7,272
15th %	9,367	11,377	14,946	8,389	3,795	1,954	1,522	781	925	989	1,891	5,508	8,807
20th %	11,539	12,472	15,268	9,168	4,153	2,213	1,696	923	1,060	1,281	2,160	7,316	9,313
30th %	17,210	19,118	19,390	12,269	4,688	3,458	1,920	1,251	1,141	1,614	3,134	9,344	10,516
40th %	21,023	21,261	23,958	15,420	7,917	4,147	2,065	1,667	1,578	2,010	4,197	12,801	12,375
Median	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830	13,819
60th %	27,317	25,499	30,268	25,793	13,843	6,523	3,187	2,960	2,878	4,173	7,703	18,239	15,060
70th %	29,419	29,855	33,950	29,740	17,426	9,021	4,741	3,405	4,086	5,476	8,954	20,573	16,053
80th %	34,351	33,963	36,878	37,485	21,968	12,475	6,708	4,006	4,934	7,243	12,146	26,535	18,590
90th %	41,430	47,363	49,496	44,159	32,125	17,753	11,576	5,464	6,483	11,738	19,200	34,894	20,234
Maximum	49,503	67,365	59,751	75,328	94,529	38,663	22,351	12,102	21,454	34,744	23,693	55,537	30,177
Average	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298	13,997

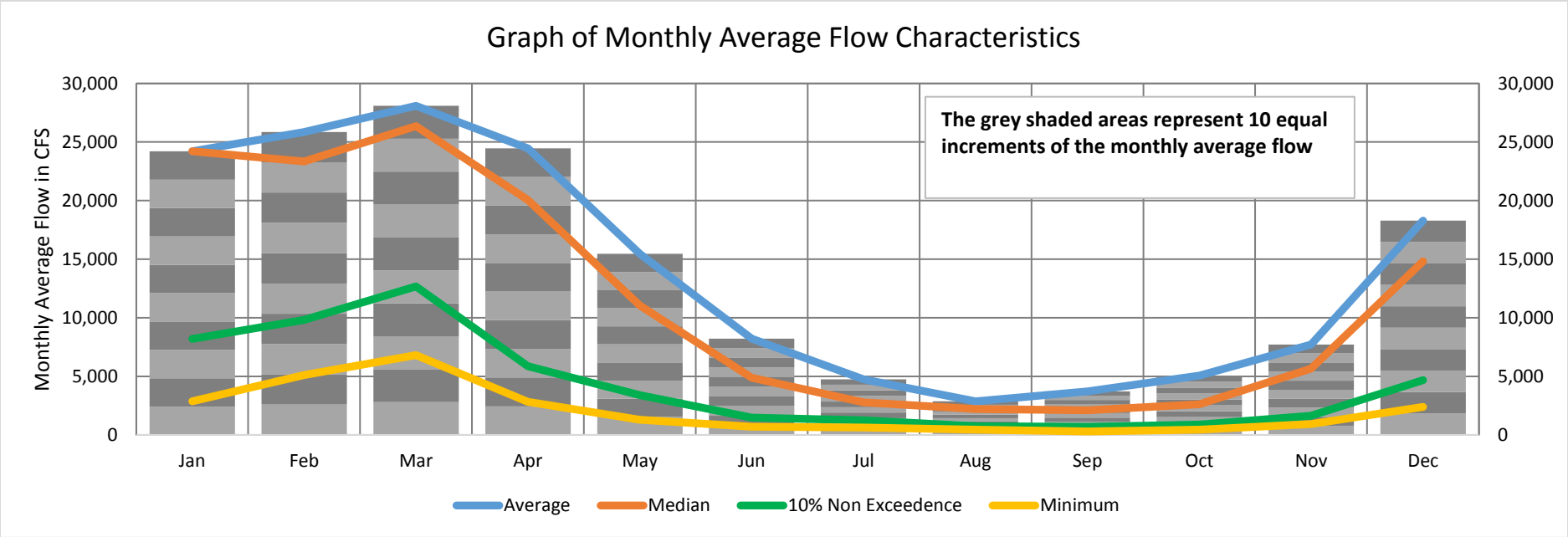
	Flows in CFS
Minimum	296.0
5th %	926
10th %	1,434
15th %	1,828
20th %	2,176
30th %	3,714
40th %	5,279
Median	8,615
60th %	12,564
70th %	18,434
80th %	25,014
90th %	34,337
Maximum	94,529
Average	14,060



Q10/Q50	0.17
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.03
Q5/DA	0.10
Q10/DA	0.16
Q15/DA	0.20
Q20/DA	0.24
Q30/DA	0.41
Q40/DA	0.58
Q50/DA	0.95
Q60/DA	1.38
Q70/DA	2.03
Q80/DA	2.76
Q90/DA	3.78
Qmax/DA	10.41

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

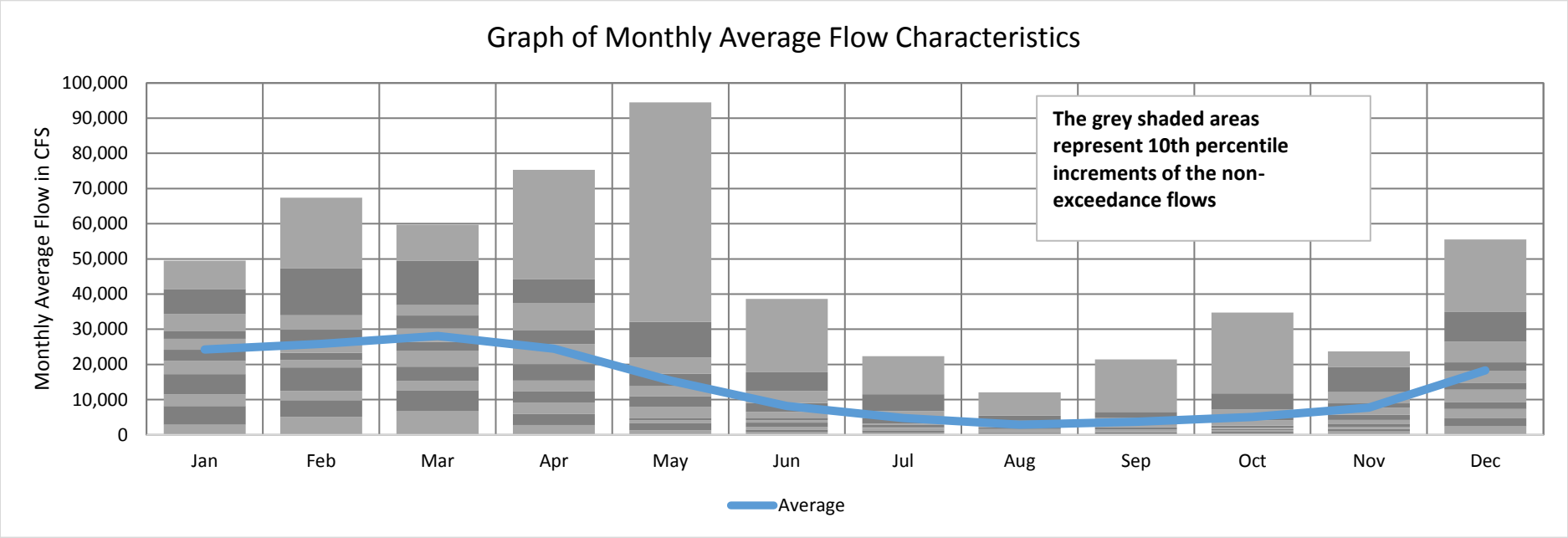
Site #: 03160106 Name: Upper Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298
100%	49,503	67,365	59,751	75,328	94,529	38,663	22,351	12,102	21,454	34,744	23,693	55,537
98%	47,781	59,861	56,176	69,861	60,129	33,163	19,619	11,238	20,799	22,290	21,087	55,508
95%	45,810	50,194	51,957	59,621	38,905	26,833	14,169	5,884	13,615	14,429	20,142	46,967
90%	41,430	47,363	49,496	44,159	32,125	17,753	11,576	5,464	6,483	11,738	19,200	34,894
75%	31,471	30,691	34,512	34,516	18,570	10,127	5,591	3,876	4,300	6,334	11,074	24,994
50%	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830
25%	14,985	17,203	16,114	10,776	4,280	3,136	1,839	1,097	1,128	1,521	2,360	8,395
10%	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681
5%	4,412	8,862	9,156	4,082	2,078	1,249	861	657	453	587	1,455	3,399
2%	3,559	7,233	7,419	3,252	1,730	712	750	562	402	460	984	2,437
0%	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396

Site #: 03160106 Name: Upper Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 9,078 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298
100%	49,503	67,365	59,751	75,328	94,529	38,663	22,351	12,102	21,454	34,744	23,693	55,537
98%	47,781	59,861	56,176	69,861	60,129	33,163	19,619	11,238	20,799	22,290	21,087	55,508
95%	45,810	50,194	51,957	59,621	38,905	26,833	14,169	5,884	13,615	14,429	20,142	46,967
90%	41,430	47,363	49,496	44,159	32,125	17,753	11,576	5,464	6,483	11,738	19,200	34,894
75%	31,471	30,691	34,512	34,516	18,570	10,127	5,591	3,876	4,300	6,334	11,074	24,994
50%	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830
25%	14,985	17,203	16,114	10,776	4,280	3,136	1,839	1,097	1,128	1,521	2,360	8,395
10%	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681
5%	4,412	8,862	9,156	4,082	2,078	1,249	861	657	453	587	1,455	3,399
2%	3,559	7,233	7,419	3,252	1,730	712	750	562	402	460	984	2,437
0%	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396

Monthly Flows (in CFS) for
03160107 - Sipsey River Subbasin

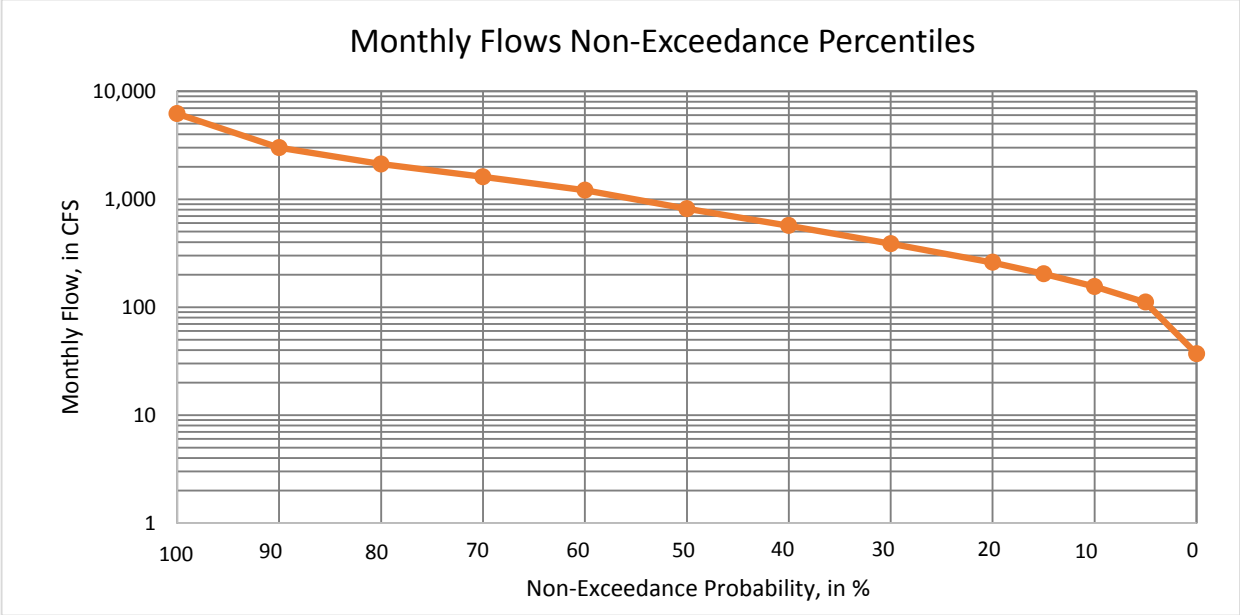
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,524	3,752	3,032	1,219	1,373	556	863	1,347	400	2,311	485	1,132	1,660
1976	2,299	1,781	4,245	1,305	2,916	687	444	218	260	196	324	959	1,306
1977	2,335	1,739	3,859	3,742	287	161	265	264	623	2,072	1,927	1,453	1,558
1978	2,017	879	1,934	660	2,072	946	203	188	112	92	150	608	825
1979	3,981	1,894	3,534	5,353	857	419	477	251	1,582	445	1,492	1,541	1,814
1980	2,344	1,795	5,613	4,972	2,355	611	300	176	148	398	824	1,321	1,739
1981	572	1,355	1,364	2,396	316	335	126	120	75	114	132	482	608
1982	3,002	2,291	1,594	2,616	717	375	375	431	125	208	538	3,868	1,342
1983	1,737	3,926	4,439	4,214	3,325	995	365	228	218	236	725	5,113	2,118
1984	2,453	1,578	2,042	2,959	2,642	366	262	230	94	355	668	1,835	1,291
1985	817	3,072	892	900	1,838	411	364	811	269	501	552	750	918
1986	495	879	1,169	348	296	755	134	98	83	206	580	1,348	531
1987	2,108	2,444	2,775	677	290	251	182	70	60	44	99	217	760
1988	973	1,164	607	969	272	92	106	64	300	523	1,005	952	581
1989	3,761	1,976	3,002	1,783	786	2,194	1,677	290	227	758	1,165	986	1,549
1990	3,838	6,091	3,230	1,176	1,319	962	387	149	102	133	232	2,949	1,690
1991	1,612	3,833	2,619	5,240	6,191	1,792	690	402	362	230	575	1,457	2,070
1992	1,068	1,362	1,519	776	275	399	389	707	989	246	1,476	1,800	914
1993	3,027	1,609	1,560	1,577	1,145	363	412	209	227	125	495	904	969
1994	1,484	3,831	2,901	2,703	526	464	733	531	291	465	620	1,783	1,344
1995	1,515	1,957	3,154	1,969	923	322	266	232	148	643	1,461	1,949	1,208
1996	2,759	2,378	2,189	2,017	665	466	734	541	561	473	1,321	1,796	1,319
1997	2,726	2,273	2,231	870	1,783	2,972	1,273	534	198	335	655	1,201	1,417
1998	4,347	2,307	2,692	2,139	638	297	722	583	161	138	325	1,076	1,283
1999	3,767	2,886	2,104	1,175	799	584	677	114	88	142	196	304	1,061
2000	858	762	2,350	3,779	292	137	69	69	37	47	283	385	752
2001	1,371	2,356	3,366	2,088	563	1,453	283	184	1,025	1,121	551	3,301	1,467
2002	2,005	1,969	1,453	1,298	1,815	290	639	209	297	1,149	2,560	2,189	1,320
2003	1,314	3,978	3,097	1,585	4,431	1,902	1,140	1,224	532	455	702	1,485	1,810
2004	1,442	4,294	2,390	889	537	1,034	1,146	398	428	305	1,466	3,671	1,483
2005	1,263	1,538	1,464	2,291	612	1,866	1,101	347	795	497	319	1,172	1,099
2006	2,470	3,777	2,219	863	783	162	85	102	138	658	1,973	681	1,142
2007	2,261	987	771	411	210	93	203	120	150	89	128	183	466
2008	386	1,650	1,992	871	1,185	437	111	183	155	157	174	2,847	844
2009	4,105	1,077	3,871	2,219	1,807	478	189	426	1,453	3,107	1,826	3,139	1,987
2010	2,071	2,435	2,580	1,534	2,234	586	257	191	107	95	253	690	1,080
2011	1,654	1,116	3,388	3,055	783	167	152	164	1,255	177	316	1,239	1,121
2012	2,605	1,854	1,912	504	423	188	227	288	533	685	300	1,266	897
2013	3,903	2,383	1,977	1,960	1,777	440	1,916	763	248	195	354	1,218	1,428
2014	1,238	2,162	1,376	3,235	1,189	593	297	172	145	275	440	1,637	1,054

Non-Exceedance Percentiles

03160107 - Sipsey River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	386	762	607	348	210	92	69	64	37	44	99	183	466
5th %	568	879	886	500	275	135	105	70	74	87	132	300	578
10th %	854	1,068	1,345	675	290	162	125	102	87	95	171	472	738
15th %	1,054	1,157	1,441	850	295	185	149	119	101	123	227	670	815
20th %	1,258	1,361	1,508	871	402	282	188	143	111	137	277	738	886
30th %	1,471	1,637	1,927	1,113	597	355	248	181	147	189	322	978	1,028
40th %	1,704	1,830	2,079	1,302	757	406	276	202	159	222	467	1,190	1,113
Median	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294	1,287
60th %	2,339	2,297	2,648	2,045	1,186	567	399	274	278	417	634	1,468	1,329
70th %	2,641	2,399	3,011	2,323	1,779	634	650	400	373	481	755	1,787	1,439
80th %	3,126	3,208	3,257	2,978	1,885	969	733	531	539	646	1,349	1,997	1,579
90th %	3,844	3,842	3,860	3,823	2,669	1,799	1,141	713	992	1,124	1,526	3,155	1,810
Maximum	4,347	6,091	5,613	5,353	6,191	2,972	1,916	1,347	1,582	3,107	2,560	5,113	2,118
Average	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572	1,246

	Flows in CFS
Minimum	36.9
5th %	111
10th %	155
15th %	203
20th %	259
30th %	386
40th %	568
Median	814
60th %	1,208
70th %	1,610
80th %	2,114
90th %	3,002
Maximum	6,191
Average	1,251

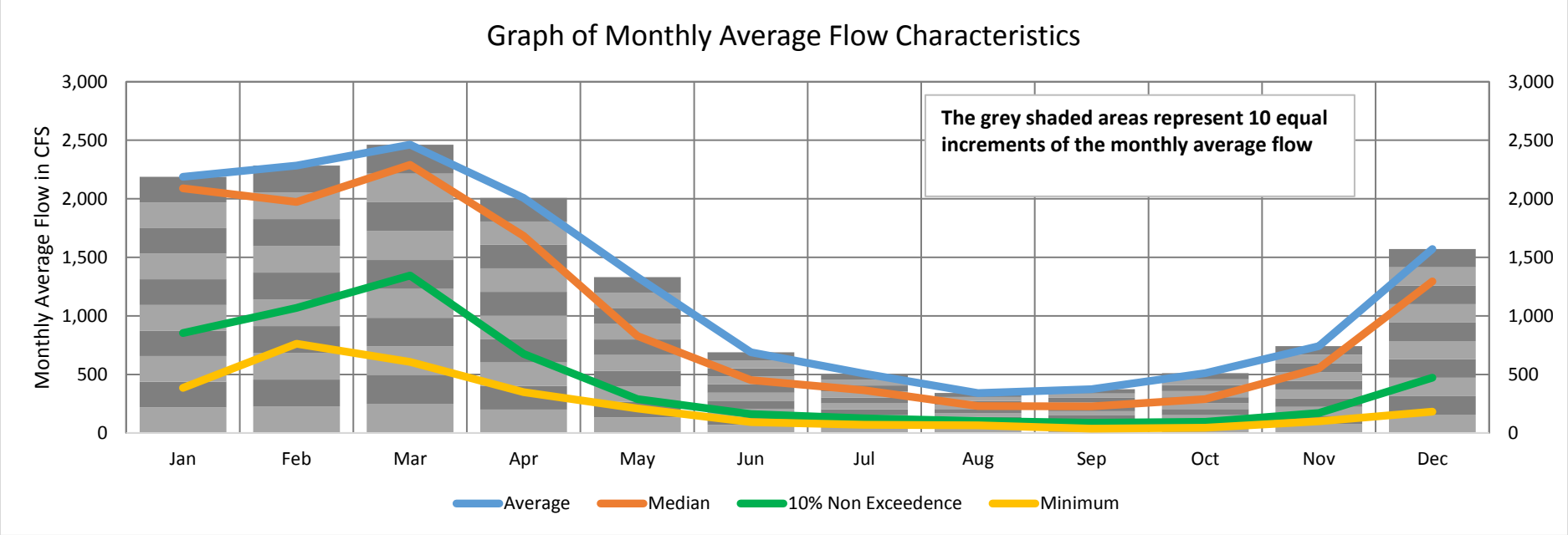


Q10/Q50	0.19
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.05
Q5/DA	0.14
Q10/DA	0.20
Q15/DA	0.26
Q20/DA	0.34
Q30/DA	0.50
Q40/DA	0.74
Q50/DA	1.06
Q60/DA	1.57
Q70/DA	2.09
Q80/DA	2.75
Q90/DA	3.90
Qmax/DA	8.05

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 03160107 Name: Sipsey River Subbasin
Period of Record: Jan-1975 - Dec-2014

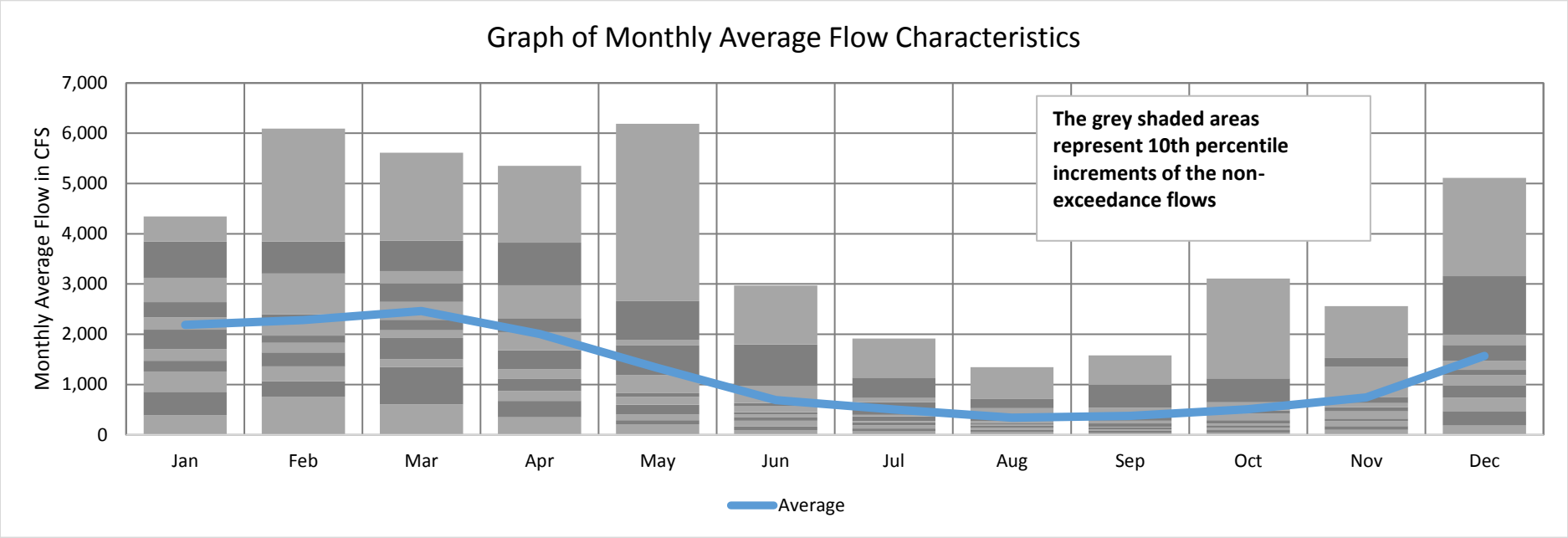
STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572
100%	4,347	6,091	5,613	5,353	6,191	2,972	1,916	1,347	1,582	3,107	2,560	5,113
98%	4,158	4,689	4,697	5,265	4,819	2,365	1,729	1,251	1,481	2,486	2,102	4,142
95%	3,987	3,994	4,255	4,985	3,381	1,916	1,293	831	1,265	2,084	1,929	3,681
90%	3,844	3,842	3,860	3,823	2,669	1,799	1,141	713	992	1,124	1,526	3,155
75%	2,820	2,555	3,111	2,638	1,809	803	698	427	454	507	1,045	1,809
50%	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294
25%	1,356	1,568	1,586	897	534	316	203	170	135	153	312	940
10%	854	1,068	1,345	675	290	162	125	102	87	95	171	472
5%	568	879	886	500	275	135	105	70	74	87	132	300
2%	471	853	735	397	259	93	82	68	55	47	122	210
0%	386	762	607	348	210	92	69	64	37	44	99	183

Site #: 03160107 Name: Sipsey River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 769 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572
100%	4,347	6,091	5,613	5,353	6,191	2,972	1,916	1,347	1,582	3,107	2,560	5,113
98%	4,158	4,689	4,697	5,265	4,819	2,365	1,729	1,251	1,481	2,486	2,102	4,142
95%	3,987	3,994	4,255	4,985	3,381	1,916	1,293	831	1,265	2,084	1,929	3,681
90%	3,844	3,842	3,860	3,823	2,669	1,799	1,141	713	992	1,124	1,526	3,155
75%	2,820	2,555	3,111	2,638	1,809	803	698	427	454	507	1,045	1,809
50%	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294
25%	1,356	1,568	1,586	897	534	316	203	170	135	153	312	940
10%	854	1,068	1,345	675	290	162	125	102	87	95	171	472
5%	568	879	886	500	275	135	105	70	74	87	132	300
2%	471	853	735	397	259	93	82	68	55	47	122	210
0%	386	762	607	348	210	92	69	64	37	44	99	183

Monthly Flows (in CFS) for
03160108 - Noxubee River Subbasin

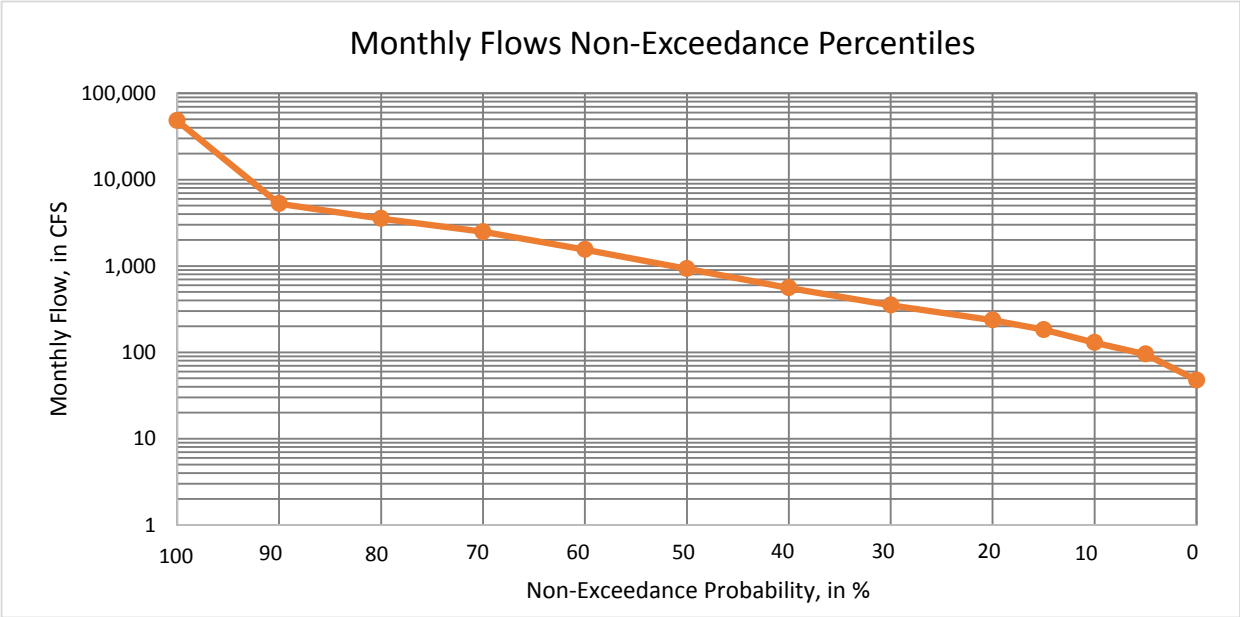
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	6,538	6,118	7,167	3,104	1,686	987	707	1,383	250	3,147	349	1,777	2,758
1976	3,063	2,470	12,055	4,625	1,698	495	421	177	396	117	161	1,477	2,271
1977	4,316	1,468	8,720	9,404	310	132	378	203	1,584	2,015	3,031	3,290	2,909
1978	3,561	1,354	2,704	403	5,188	892	204	121	87	81	82	263	1,254
1979	8,097	4,532	7,769	48,051	1,042	274	1,141	470	3,795	278	2,038	2,425	6,601
1980	3,934	2,807	9,268	9,716	2,934	559	286	192	250	507	927	604	2,662
1981	597	1,027	1,551	2,390	187	347	153	170	219	376	253	449	638
1982	2,164	2,356	1,802	3,744	489	681	276	515	235	468	478	6,680	1,656
1983	4,154	9,625	7,785	9,536	7,769	1,915	558	175	259	509	1,369	5,258	4,039
1984	3,482	2,622	2,690	2,801	3,404	191	215	497	197	642	1,138	1,225	1,589
1985	789	5,364	928	954	1,185	174	296	346	208	577	511	962	995
1986	645	585	1,499	272	457	569	95	106	106	466	1,863	2,291	748
1987	3,115	3,529	4,804	596	416	633	196	121	305	258	231	349	1,202
1988	657	1,070	697	1,403	117	78	400	282	327	555	2,020	1,017	713
1989	4,951	3,189	4,435	2,575	2,802	2,441	3,277	474	503	1,035	2,529	1,737	2,495
1990	7,569	8,966	3,997	983	530	595	224	240	425	76	108	2,356	2,135
1991	1,584	8,923	4,855	8,923	13,318	2,352	330	386	478	146	312	913	3,505
1992	1,546	3,055	1,000	1,618	182	821	183	1,092	318	83	2,832	2,790	1,278
1993	7,076	4,680	3,061	3,119	2,616	346	164	675	101	87	631	812	1,935
1994	3,611	6,366	4,638	4,185	270	667	1,674	278	355	819	589	3,090	2,186
1995	2,865	3,101	6,807	4,049	797	442	176	274	101	669	1,441	3,239	1,993
1996	5,546	3,718	4,837	2,700	282	294	359	333	191	130	312	1,463	1,672
1997	4,787	6,351	2,972	2,831	1,438	3,660	996	607	156	269	1,000	3,549	2,357
1998	9,750	4,798	3,659	2,493	389	192	457	292	84	81	111	1,054	1,937
1999	5,727	5,337	3,972	831	286	320	312	95	82	107	78	169	1,423
2000	437	254	607	5,684	143	129	87	61	48	50	382	780	716
2001	3,120	3,086	6,845	2,054	200	1,167	154	289	1,571	2,373	1,093	4,346	2,192
2002	4,110	3,769	3,452	1,636	263	141	213	220	1,997	3,339	3,241	4,887	2,266
2003	1,850	9,766	5,420	6,762	1,916	2,401	2,128	666	274	449	1,300	1,443	2,810
2004	2,591	10,418	2,784	979	711	1,352	2,208	428	382	569	4,146	5,262	2,599
2005	1,692	4,823	2,944	5,092	855	4,644	3,486	1,011	1,995	218	130	686	2,270
2006	2,974	6,274	5,537	568	1,412	124	126	113	98	1,459	1,109	1,009	1,710
2007	3,573	1,625	524	192	101	83	284	94	88	84	78	151	569
2008	291	3,619	2,126	1,646	1,564	368	85	911	316	437	93	5,830	1,432
2009	5,445	773	7,688	2,783	3,539	698	232	390	4,877	6,345	2,091	5,303	3,376
2010	5,043	4,921	5,497	1,245	2,056	451	236	153	96	75	203	439	1,688
2011	1,135	1,688	5,885	4,499	632	133	273	144	932	100	93	1,442	1,411
2012	2,318	2,945	5,154	643	452	174	1,036	516	1,014	541	138	3,326	1,521
2013	7,973	7,778	5,002	4,669	2,084	625	708	429	343	119	751	2,307	2,703
2014	1,480	4,790	3,996	10,314	1,939	1,413	255	126	104	193	351	2,482	2,258

Non-Exceedance Percentiles

03160108 - Noxubee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	291	254	524	192	101	78	85	61	48	50	78	151	569
5th %	589	763	693	396	142	122	95	95	84	76	81	258	709
10th %	656	1,066	993	593	187	131	150	113	88	81	93	430	745
15th %	1,083	1,451	1,543	803	253	140	163	121	98	84	111	581	1,171
20th %	1,533	1,676	2,061	974	280	174	181	140	101	97	136	761	1,273
30th %	2,070	2,751	2,896	1,553	408	288	215	177	180	126	246	995	1,494
40th %	2,930	3,095	3,576	2,255	514	359	248	232	229	242	350	1,356	1,682
Median	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607	1,965
60th %	3,740	4,724	4,844	3,110	1,422	628	342	362	321	483	956	2,326	2,218
70th %	4,457	5,045	5,443	4,279	1,764	735	432	441	386	559	1,187	2,880	2,297
80th %	5,465	6,289	6,814	5,210	2,190	1,204	766	515	589	699	1,894	3,370	2,670
90th %	7,125	8,927	7,771	9,417	3,417	2,357	1,720	699	1,625	2,051	2,559	5,258	2,956
Maximum	9,750	10,418	12,055	48,051	13,318	4,644	3,486	1,383	4,877	6,345	4,146	6,680	6,601
Average	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223	2,062

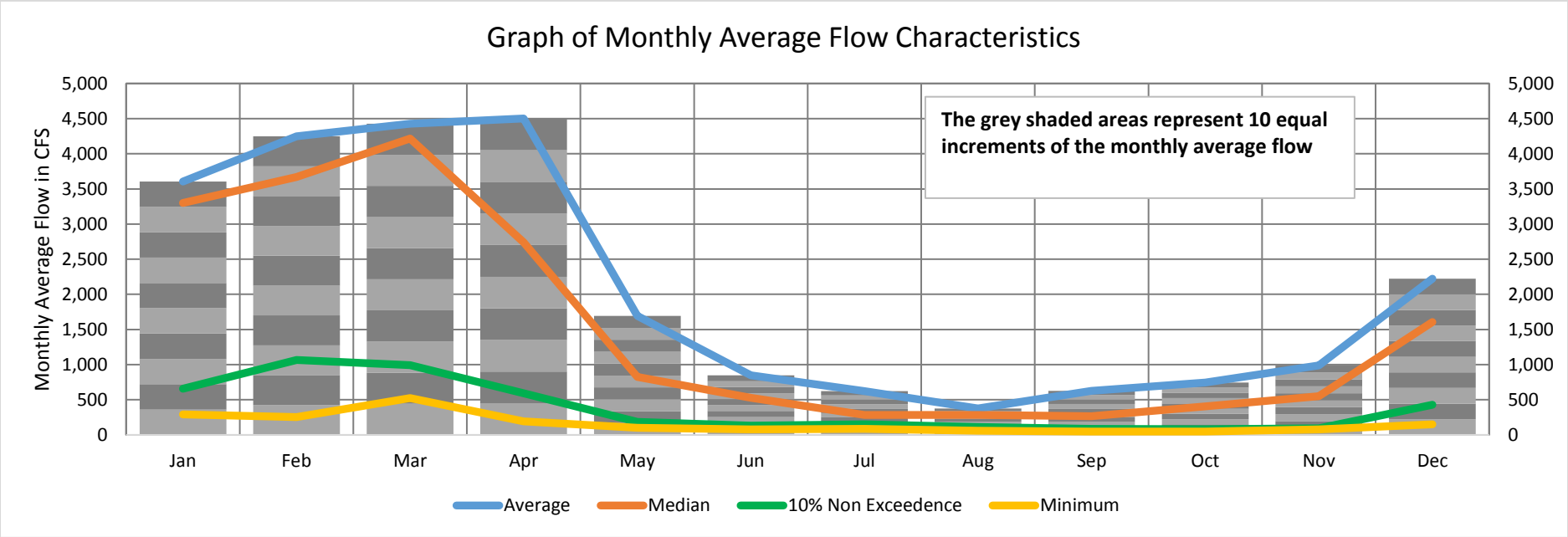
	Flows in CFS
Minimum	47.7
5th %	95
10th %	130
15th %	183
20th %	236
30th %	350
40th %	557
Median	930
60th %	1,548
70th %	2,485
80th %	3,541
90th %	5,266
Maximum	48,051
Average	2,076



Q10/Q50	0.14
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.03
Q5/DA	0.07
Q10/DA	0.09
Q15/DA	0.13
Q20/DA	0.16
Q30/DA	0.24
Q40/DA	0.38
Q50/DA	0.64
Q60/DA	1.06
Q70/DA	1.70
Q80/DA	2.43
Q90/DA	3.61
Qmax/DA	32.91

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

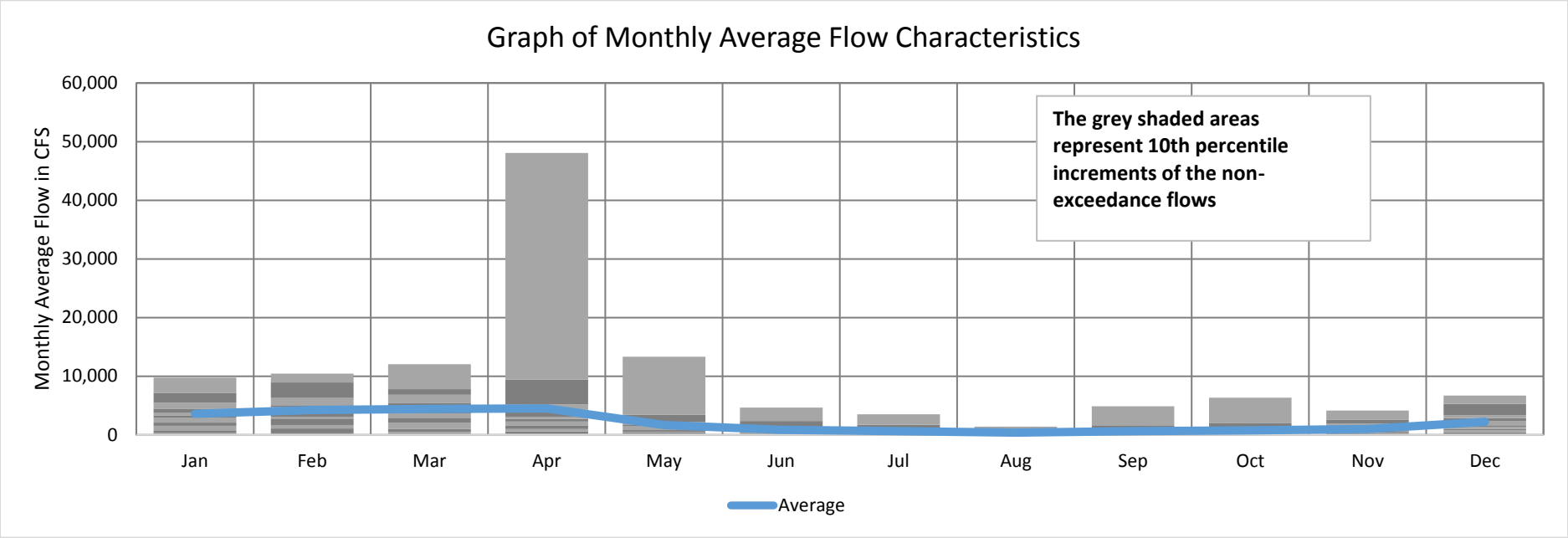
Site #: 03160108 Name: Noxubee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223
100%	9,750	10,418	12,055	48,051	13,318	4,644	3,486	1,383	4,877	6,345	4,146	6,680
98%	8,460	9,910	9,881	18,616	8,990	3,876	3,323	1,156	4,033	4,000	3,440	6,017
95%	7,979	9,632	8,748	9,746	5,317	2,502	2,261	1,015	2,086	3,156	3,041	5,330
90%	7,125	8,927	7,771	9,417	3,417	2,357	1,720	699	1,625	2,051	2,559	5,258
75%	4,974	5,553	5,624	4,636	1,968	916	595	480	438	593	1,387	3,252
50%	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607
25%	1,665	2,442	2,700	1,179	304	192	202	166	105	114	192	888
10%	656	1,066	993	593	187	131	150	113	88	81	93	430
5%	589	763	693	396	142	122	95	95	84	76	81	258
2%	405	512	588	254	114	82	86	87	75	70	78	165
0%	291	254	524	192	101	78	85	61	48	50	78	151

Site #: 03160108 Name: Noxubee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,460 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223
100%	9,750	10,418	12,055	48,051	13,318	4,644	3,486	1,383	4,877	6,345	4,146	6,680
98%	8,460	9,910	9,881	18,616	8,990	3,876	3,323	1,156	4,033	4,000	3,440	6,017
95%	7,979	9,632	8,748	9,746	5,317	2,502	2,261	1,015	2,086	3,156	3,041	5,330
90%	7,125	8,927	7,771	9,417	3,417	2,357	1,720	699	1,625	2,051	2,559	5,258
75%	4,974	5,553	5,624	4,636	1,968	916	595	480	438	593	1,387	3,252
50%	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607
25%	1,665	2,442	2,700	1,179	304	192	202	166	105	114	192	888
10%	656	1,066	993	593	187	131	150	113	88	81	93	430
5%	589	763	693	396	142	122	95	95	84	76	81	258
2%	405	512	588	254	114	82	86	87	75	70	78	165
0%	291	254	524	192	101	78	85	61	48	50	78	151

Monthly Flows (in CFS) for
03160109 - Mulberry Fork Subbasin

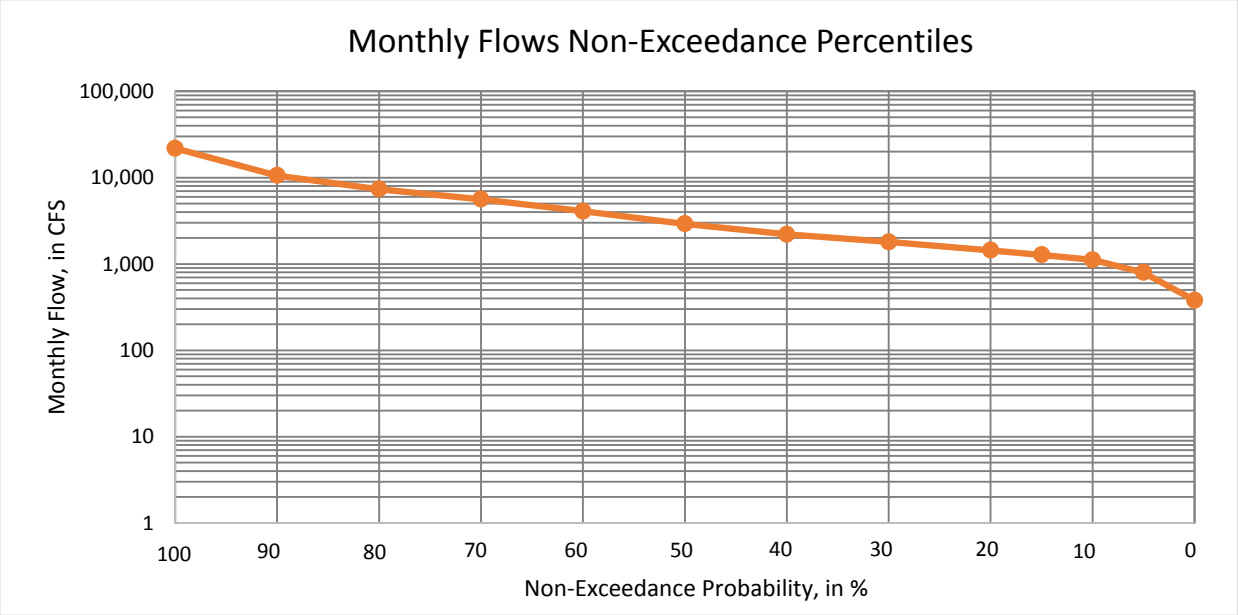
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	11,047	12,014	12,198	6,505	4,300	2,282	3,366	3,646	1,805	6,717	2,724	5,162	5,960
1976	7,856	5,836	13,025	5,109	9,251	2,560	2,116	1,635	1,902	1,135	1,348	3,438	4,611
1977	7,388	4,195	14,405	13,033	1,578	1,746	1,860	1,782	2,700	7,324	7,238	6,624	5,832
1978	7,285	4,318	4,972	1,663	6,656	3,571	1,796	1,729	1,415	796	792	1,905	3,078
1979	10,883	7,741	12,147	18,940	3,356	2,235	3,257	1,924	3,775	2,030	6,731	5,163	6,490
1980	7,696	5,729	21,814	16,025	7,245	2,075	1,831	1,638	1,933	2,289	3,605	4,517	6,377
1981	2,526	5,028	6,257	5,573	1,002	2,205	1,667	1,504	1,504	897	643	2,071	2,554
1982	9,767	10,173	5,574	9,506	2,964	3,361	2,290	2,209	1,119	866	1,977	10,661	5,008
1983	6,734	13,125	12,194	14,622	10,733	3,164	1,932	1,731	1,464	869	2,668	16,881	7,146
1984	7,033	6,134	6,219	10,581	8,704	1,786	1,739	1,701	1,045	963	1,831	4,107	4,311
1985	2,620	9,272	2,560	2,259	4,936	1,840	3,414	3,022	1,558	2,420	2,552	3,374	3,284
1986	1,899	3,467	3,329	953	1,306	2,286	1,388	1,246	1,438	1,296	2,538	4,430	2,124
1987	9,065	9,781	9,838	2,364	1,382	2,164	1,931	1,445	1,247	489	709	1,683	3,477
1988	4,408	4,140	1,943	2,994	1,002	1,136	1,116	1,240	1,957	1,803	4,052	3,334	2,412
1989	11,408	8,722	11,787	6,139	2,441	6,903	8,546	1,634	2,277	2,521	4,606	4,488	5,944
1990	11,999	21,847	12,378	2,918	3,299	1,948	1,697	1,440	1,217	614	759	5,793	5,400
1991	5,749	9,813	7,596	14,904	16,356	2,634	1,639	1,523	1,298	757	1,111	4,165	5,602
1992	3,077	5,160	3,436	1,942	776	1,634	1,873	2,520	2,585	1,207	5,694	6,281	2,998
1993	10,409	5,545	6,029	4,190	4,652	1,708	1,535	1,324	1,405	699	801	2,205	3,372
1994	7,074	11,054	14,210	10,313	1,905	1,893	2,751	2,265	1,725	2,170	3,209	7,051	5,435
1995	5,903	7,893	11,255	5,231	2,493	1,686	1,365	1,439	1,272	3,428	6,269	6,779	4,568
1996	10,477	8,111	9,960	6,009	2,244	1,940	2,791	2,005	2,183	1,131	3,133	5,845	4,639
1997	10,499	8,673	8,584	2,214	6,608	13,146	4,620	2,126	1,792	2,690	2,164	4,216	5,594
1998	15,276	11,994	10,538	8,693	2,178	1,732	1,835	2,040	1,157	853	799	3,416	5,007
1999	11,262	8,263	7,349	4,108	3,310	2,744	2,255	1,243	1,144	674	680	947	3,644
2000	2,962	1,985	13,646	14,213	1,157	1,138	1,107	1,167	911	473	1,268	1,347	3,450
2001	5,203	7,258	14,141	11,192	2,017	3,564	1,672	1,979	6,124	4,025	3,226	11,938	6,018
2002	9,222	6,777	5,421	4,430	7,325	1,630	2,526	1,460	2,303	3,191	7,518	8,115	4,990
2003	4,695	12,178	10,074	4,367	18,014	3,626	2,657	2,227	1,787	1,016	2,331	2,900	5,461
2004	4,624	12,928	6,611	1,916	1,678	3,808	3,572	1,597	2,506	1,195	7,817	11,962	4,964
2005	4,933	4,243	4,637	8,232	1,778	6,424	4,571	2,283	2,076	876	908	3,309	3,677
2006	5,719	9,245	4,937	3,600	3,726	1,337	1,213	1,508	1,126	1,749	4,212	2,627	3,378
2007	6,091	3,090	1,589	1,175	579	821	1,173	1,111	902	413	422	427	1,477
2008	680	3,827	5,439	2,975	5,414	1,597	1,341	1,434	1,131	525	545	6,460	2,616
2009	13,159	4,550	11,051	6,873	7,331	2,588	1,578	1,926	7,512	11,275	6,431	11,894	7,217
2010	7,750	8,390	7,984	5,528	7,674	2,165	1,497	1,297	697	380	411	1,309	3,736
2011	5,164	3,318	12,655	13,636	2,614	1,306	1,716	1,801	4,707	674	1,374	5,989	4,582
2012	12,333	6,515	5,874	1,921	1,274	942	1,577	1,818	2,668	2,242	1,305	3,890	3,525
2013	15,861	9,529	6,794	6,948	8,161	1,958	5,138	3,893	1,680	480	1,008	4,373	5,480
2014	5,299	7,527	3,449	9,378	2,902	3,943	1,773	1,421	1,338	2,971	1,633	6,916	4,017

Non-Exceedance Percentiles

03160109 - Mulberry Fork Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427	1,477
5th %	2,494	3,307	2,529	1,638	991	1,127	1,170	1,236	910	470	539	1,291	2,397
10th %	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650	2,609
15th %	4,209	4,186	4,458	2,173	1,301	1,558	1,385	1,320	1,131	601	752	2,046	3,066
20th %	4,681	4,303	4,965	2,343	1,539	1,633	1,527	1,431	1,154	674	797	2,543	3,354
30th %	5,271	5,429	5,784	3,418	1,983	1,742	1,659	1,455	1,290	836	1,080	3,362	3,511
40th %	6,016	6,363	6,469	4,405	2,472	1,921	1,730	1,567	1,429	889	1,364	4,020	3,904
Median	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402	4,597
60th %	7,792	8,314	10,005	6,652	3,956	2,254	1,931	1,790	1,797	1,477	2,599	5,162	4,996
70th %	9,960	9,253	11,415	8,898	5,772	2,602	2,361	1,942	1,993	2,192	3,214	6,076	5,443
80th %	10,916	9,885	12,234	10,703	7,326	3,402	2,884	2,143	2,344	2,554	4,290	6,807	5,648
90th %	12,033	12,030	13,695	14,253	8,759	3,821	3,672	2,307	2,808	3,487	6,461	10,784	6,054
Maximum	15,861	21,847	21,814	18,940	18,014	13,146	8,546	3,893	7,512	11,275	7,817	16,881	7,217
Average	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200	4,486

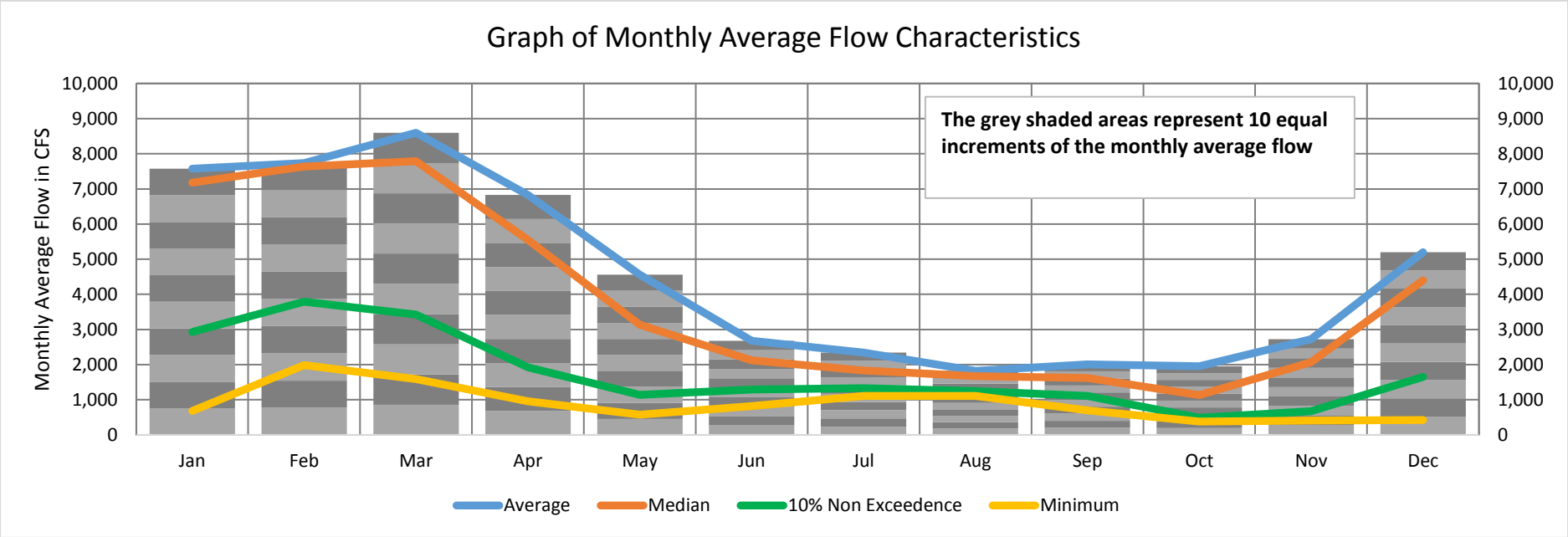
	Flows in CFS
Minimum	379.6
5th %	796
10th %	1,115
15th %	1,274
20th %	1,440
30th %	1,795
40th %	2,205
Median	2,910
60th %	4,074
70th %	5,610
80th %	7,326
90th %	10,589
Maximum	21,847
Average	4,503



Q10/Q50	0.38
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.16
Q5/DA	0.33
Q10/DA	0.47
Q15/DA	0.53
Q20/DA	0.60
Q30/DA	0.75
Q40/DA	0.92
Q50/DA	1.22
Q60/DA	1.70
Q70/DA	2.35
Q80/DA	3.07
Q90/DA	4.43
Qmax/DA	9.14

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

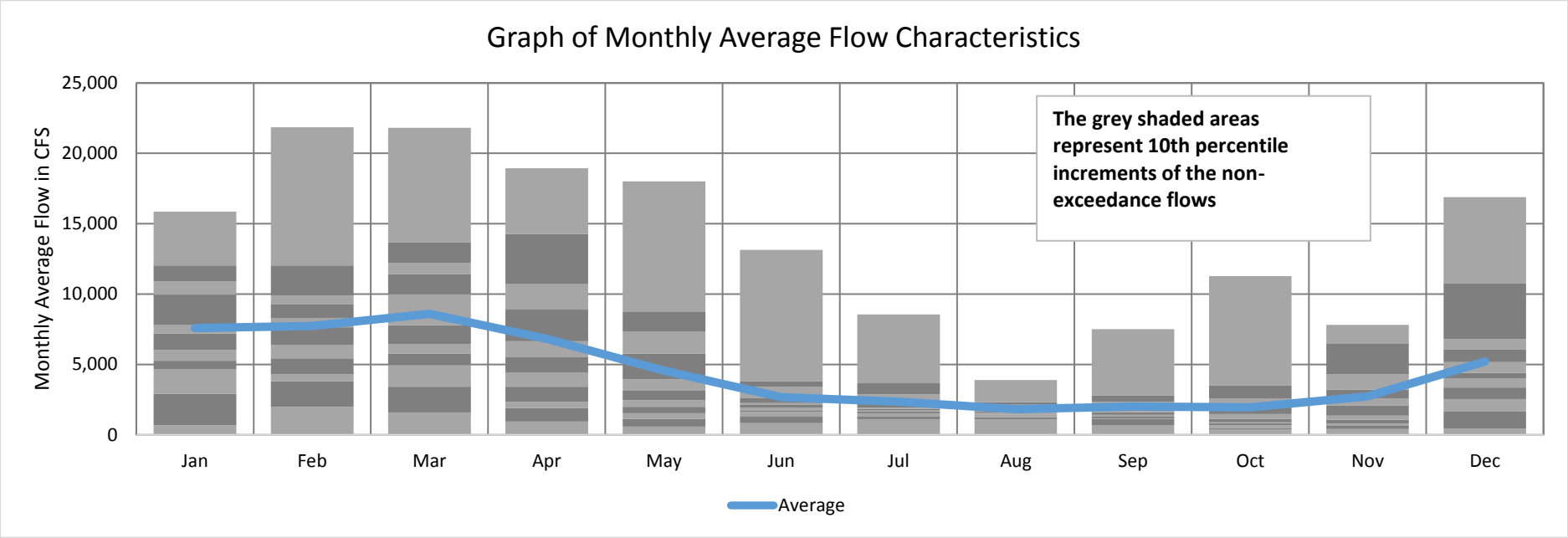
Site #: 03160109 Name: Mulberry Fork Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200
100%	15,861	21,847	21,814	18,940	18,014	13,146	8,546	3,893	7,512	11,275	7,817	16,881
98%	15,405	15,044	16,035	16,667	16,721	8,277	5,888	3,701	6,429	8,193	7,584	13,044
95%	13,265	12,938	14,220	14,960	11,014	6,448	4,645	3,053	4,778	6,747	7,252	11,939
90%	12,033	12,030	13,695	14,253	8,759	3,821	3,672	2,307	2,808	3,487	6,461	10,784
75%	10,482	9,592	12,159	9,708	6,803	2,849	2,681	2,014	2,207	2,321	3,717	6,501
50%	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402
25%	5,107	4,908	5,434	2,961	1,753	1,702	1,578	1,440	1,240	743	881	3,207
10%	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650
5%	2,494	3,307	2,529	1,638	991	1,127	1,170	1,236	910	470	539	1,291
2%	1,631	2,847	1,865	1,126	732	916	1,114	1,154	856	405	419	832
0%	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427

Site #: 03160109 Name: Mulberry Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,390 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200
100%	15,861	21,847	21,814	18,940	18,014	13,146	8,546	3,893	7,512	11,275	7,817	16,881
98%	15,405	15,044	16,035	16,667	16,721	8,277	5,888	3,701	6,429	8,193	7,584	13,044
95%	13,265	12,938	14,220	14,960	11,014	6,448	4,645	3,053	4,778	6,747	7,252	11,939
90%	12,033	12,030	13,695	14,253	8,759	3,821	3,672	2,307	2,808	3,487	6,461	10,784
75%	10,482	9,592	12,159	9,708	6,803	2,849	2,681	2,014	2,207	2,321	3,717	6,501
50%	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402
25%	5,107	4,908	5,434	2,961	1,753	1,702	1,578	1,440	1,240	743	881	3,207
10%	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650
5%	2,494	3,307	2,529	1,638	991	1,127	1,170	1,236	910	470	539	1,291
2%	1,631	2,847	1,865	1,126	732	916	1,114	1,154	856	405	419	832
0%	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427

Monthly Flows (in CFS) for
03160110 - Sipsey Fork Subbasin

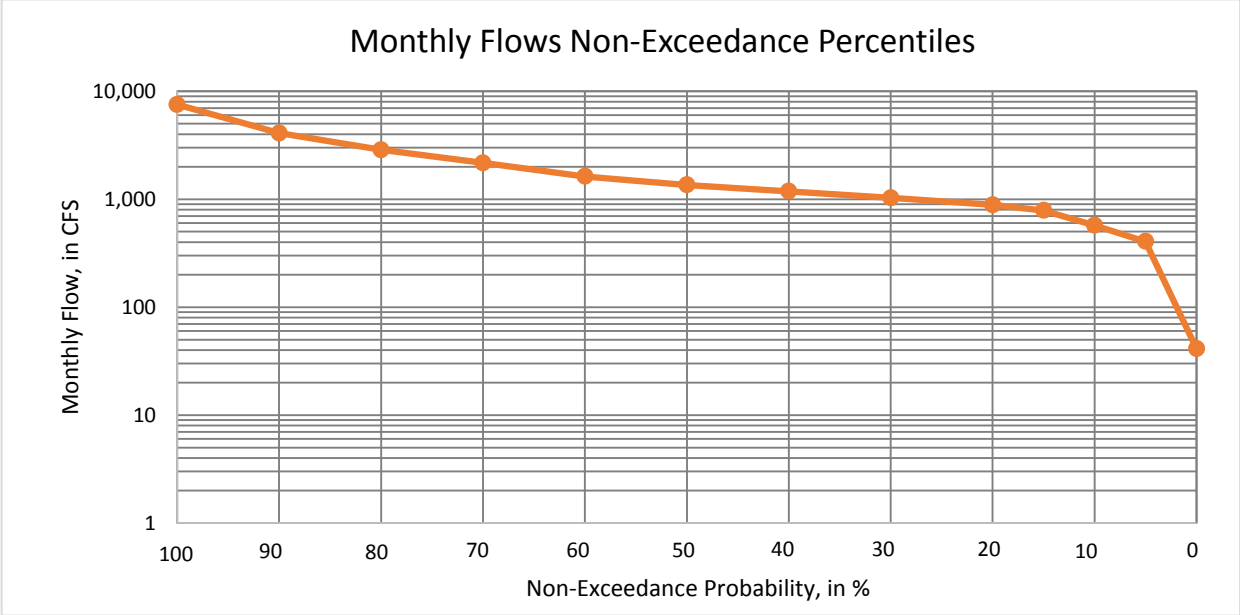
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,679	3,669	3,916	3,450	1,609	1,188	1,265	1,601	887	2,173	1,353	2,589	2,276
1976	2,468	2,053	5,306	2,732	4,942	1,215	1,099	1,155	1,394	785	784	1,430	2,120
1977	3,027	1,192	4,792	5,145	997	1,414	1,474	1,419	1,363	2,880	2,171	3,680	2,473
1978	2,981	2,470	1,402	478	2,790	1,905	1,414	1,384	1,182	627	590	915	1,509
1979	3,865	3,093	5,042	7,405	1,773	1,426	2,158	1,275	786	1,130	2,497	2,819	2,767
1980	2,668	2,452	6,108	7,528	3,234	1,340	1,458	1,308	813	822	1,113	2,713	2,630
1981	1,672	1,825	2,208	2,000	443	1,291	1,316	1,195	1,205	533	289	557	1,206
1982	2,267	3,897	2,511	3,233	1,498	2,173	1,554	1,355	881	619	953	4,249	2,088
1983	3,390	5,365	4,749	6,170	4,098	1,795	1,409	1,358	1,122	581	969	6,230	3,091
1984	2,787	2,753	1,987	4,394	2,623	1,174	1,271	1,230	851	264	332	2,349	1,829
1985	1,069	3,036	993	499	1,653	1,243	1,709	1,634	1,166	1,393	1,504	1,652	1,454
1986	923	1,000	832	370	406	1,311	1,078	1,008	1,169	789	777	2,038	976
1987	4,216	3,349	4,660	1,111	783	1,447	1,000	1,175	1,007	377	442	795	1,691
1988	1,564	1,706	816	709	452	922	877	1,045	805	853	1,493	1,626	1,068
1989	2,900	2,741	4,974	2,294	1,041	2,229	3,344	1,014	1,519	1,154	2,153	2,302	2,305
1990	3,087	6,484	5,176	1,248	1,078	929	1,119	1,192	1,018	448	485	1,503	1,955
1991	2,734	2,585	1,904	5,176	6,459	1,231	1,104	1,108	914	535	572	1,252	2,129
1992	984	913	556	374	277	627	1,135	1,291	1,400	816	2,024	2,194	1,050
1993	3,632	2,283	1,922	1,910	2,320	1,022	1,137	1,044	1,125	552	402	730	1,504
1994	2,102	2,690	4,724	5,050	853	1,161	1,356	1,528	1,143	825	1,565	2,906	2,153
1995	2,108	2,879	4,991	2,112	1,285	1,058	1,074	1,142	986	1,503	2,465	2,540	2,009
1996	3,447	4,103	4,448	2,489	1,156	970	1,738	1,305	896	559	1,173	1,705	1,989
1997	4,110	3,480	4,022	1,004	2,325	4,723	2,124	1,502	1,227	861	979	1,841	2,345
1998	6,024	5,229	5,027	3,668	1,180	1,051	1,211	1,242	901	650	513	1,183	2,308
1999	4,057	4,015	3,323	1,489	1,066	1,169	1,282	1,010	967	519	413	609	1,648
2000	1,232	655	7,117	6,983	619	808	894	938	765	376	154	41	1,719
2001	1,481	2,073	6,196	5,186	813	1,575	1,022	1,313	3,240	2,012	1,796	5,481	2,684
2002	4,232	3,259	1,692	1,890	2,900	959	1,379	1,022	1,269	1,013	2,936	3,215	2,142
2003	2,126	3,496	4,874	1,560	7,445	2,003	1,552	1,399	997	691	1,199	1,339	2,391
2004	1,720	4,039	2,570	847	897	1,452	1,708	1,164	1,514	441	2,860	4,635	1,974
2005	2,569	1,392	1,952	3,510	812	2,681	2,332	1,448	1,244	576	432	1,188	1,677
2006	1,570	4,285	1,742	1,361	1,512	1,009	1,004	1,245	735	175	1,308	1,054	1,397
2007	2,187	1,197	520	414	286	663	891	939	658	310	270	289	717
2008	266	1,264	1,348	1,461	2,532	1,022	1,047	1,004	871	344	336	1,376	1,073
2009	4,209	1,886	4,481	2,580	2,200	1,246	1,123	1,094	3,703	5,340	3,578	5,318	3,076
2010	2,769	3,856	2,729	2,084	2,929	1,145	1,002	966	545	267	152	455	1,563
2011	1,865	976	4,093	5,019	1,353	907	1,122	1,030	812	313	225	1,622	1,615
2012	5,441	3,122	1,715	1,020	613	528	965	1,235	1,617	1,032	863	1,024	1,592
2013	5,613	3,799	2,549	2,596	3,114	1,110	3,109	2,171	1,249	300	586	1,339	2,292
2014	2,826	1,967	1,048	3,588	1,437	2,009	1,260	1,132	1,061	1,934	733	2,660	1,803

Non-Exceedance Percentiles

03160110 - Sipsey Fork Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	266	655	520	370	277	528	877	938	545	175	152	41	717
5th %	981	973	803	412	400	662	894	965	731	267	222	447	1,046
10th %	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604	1,072
15th %	1,551	1,254	1,303	827	618	928	1,004	1,013	811	339	336	785	1,368
20th %	1,652	1,643	1,634	1,017	806	968	1,042	1,028	843	377	411	1,002	1,494
30th %	2,106	2,027	1,917	1,431	967	1,043	1,103	1,104	894	529	505	1,233	1,608
40th %	2,388	2,463	2,390	1,902	1,125	1,155	1,130	1,160	978	569	676	1,408	1,708
Median	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639	1,964
60th %	2,932	3,105	4,235	2,650	1,626	1,264	1,332	1,257	1,152	800	1,137	2,101	2,101
70th %	3,407	3,485	4,732	3,534	2,322	1,418	1,427	1,309	1,212	855	1,395	2,554	2,190
80th %	3,903	3,864	4,978	5,025	2,812	1,619	1,585	1,387	1,288	1,135	1,841	2,837	2,315
90th %	4,217	4,121	5,189	5,285	3,320	2,025	2,127	1,505	1,514	1,942	2,468	4,288	2,636
Maximum	6,024	6,484	7,117	7,528	7,445	4,723	3,344	2,171	3,703	5,340	3,578	6,230	3,091
Average	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086	1,907

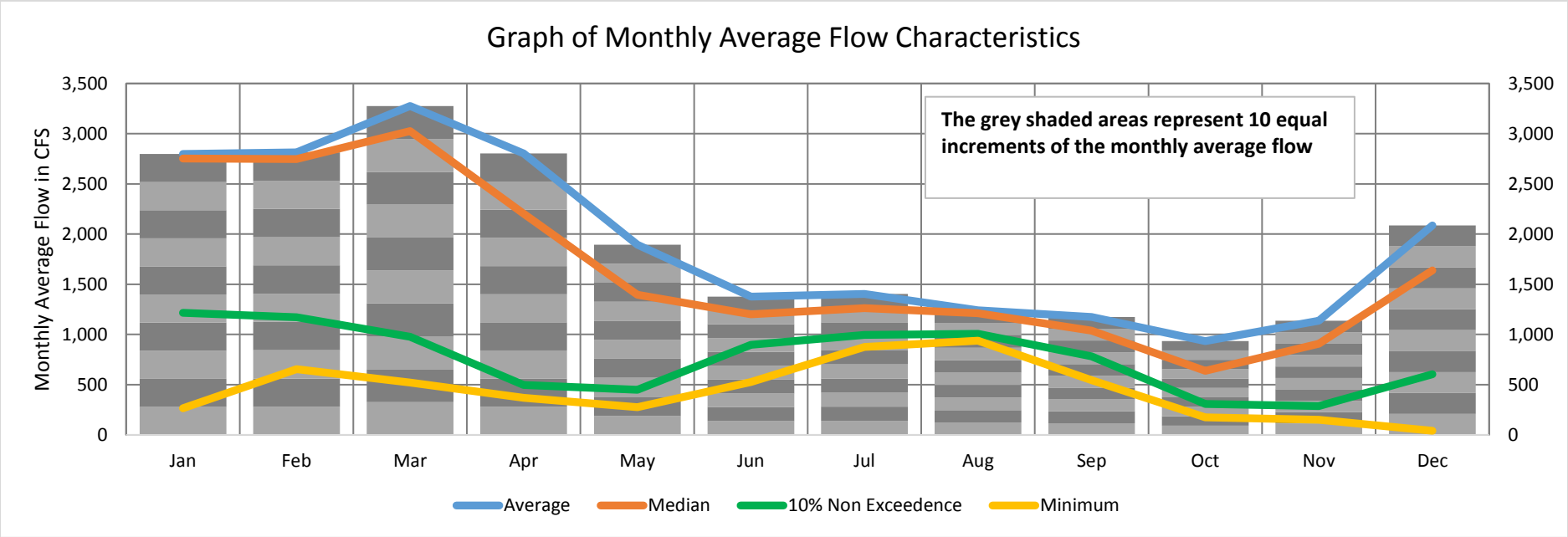
	Flows in CFS
Minimum	41.2
5th %	406
10th %	571
15th %	785
20th %	886
30th %	1,028
40th %	1,182
Median	1,357
60th %	1,624
70th %	2,171
80th %	2,864
90th %	4,099
Maximum	7,528
Average	1,911



Q10/Q50	0.42
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.04
Q5/DA	0.40
Q10/DA	0.57
Q15/DA	0.78
Q20/DA	0.88
Q30/DA	1.02
Q40/DA	1.17
Q50/DA	1.34
Q60/DA	1.61
Q70/DA	2.15
Q80/DA	2.84
Q90/DA	4.06
Qmax/DA	7.45

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

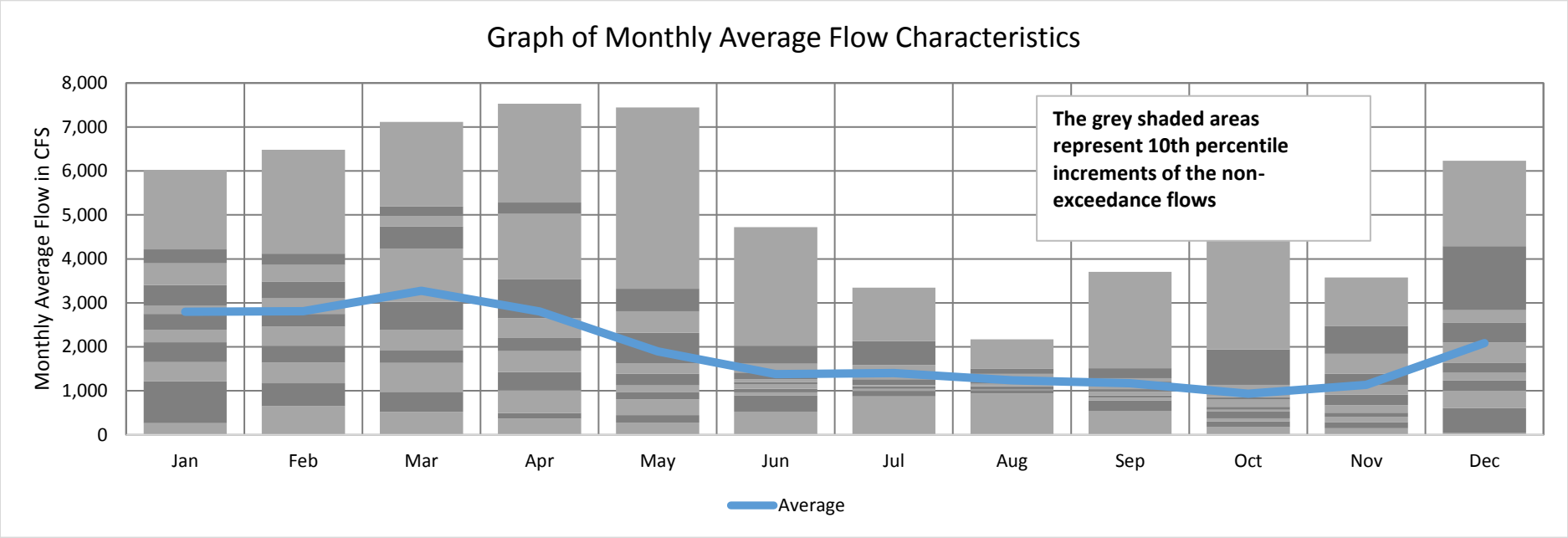
Site #: 03160110 Name: Sipsey Fork Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086
100%	6,024	6,484	7,117	7,528	7,445	4,723	3,344	2,171	3,703	5,340	3,578	6,230
98%	5,704	5,611	6,399	7,432	6,676	3,130	3,161	1,752	3,342	3,421	3,077	5,646
95%	5,450	5,236	6,112	7,004	5,018	2,251	2,371	1,602	1,699	2,208	2,864	5,326
90%	4,217	4,121	5,189	5,285	3,320	2,025	2,127	1,505	1,514	1,942	2,468	4,288
75%	3,644	3,701	4,813	3,850	2,555	1,448	1,493	1,356	1,245	1,018	1,519	2,673
50%	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639
25%	1,829	1,871	1,736	1,214	843	1,019	1,077	1,045	878	446	440	1,150
10%	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604
5%	981	973	803	412	400	662	894	965	731	267	222	447
2%	778	857	548	373	284	605	888	939	633	245	154	235
0%	266	655	520	370	277	528	877	938	545	175	152	41

Site #: 03160110 Name: Sipsey Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,010 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086
100%	6,024	6,484	7,117	7,528	7,445	4,723	3,344	2,171	3,703	5,340	3,578	6,230
98%	5,704	5,611	6,399	7,432	6,676	3,130	3,161	1,752	3,342	3,421	3,077	5,646
95%	5,450	5,236	6,112	7,004	5,018	2,251	2,371	1,602	1,699	2,208	2,864	5,326
90%	4,217	4,121	5,189	5,285	3,320	2,025	2,127	1,505	1,514	1,942	2,468	4,288
75%	3,644	3,701	4,813	3,850	2,555	1,448	1,493	1,356	1,245	1,018	1,519	2,673
50%	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639
25%	1,829	1,871	1,736	1,214	843	1,019	1,077	1,045	878	446	440	1,150
10%	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604
5%	981	973	803	412	400	662	894	965	731	267	222	447
2%	778	857	548	373	284	605	888	939	633	245	154	235
0%	266	655	520	370	277	528	877	938	545	175	152	41

Monthly Flows (in CFS) for
03160111 - Locust Fork Subbasin

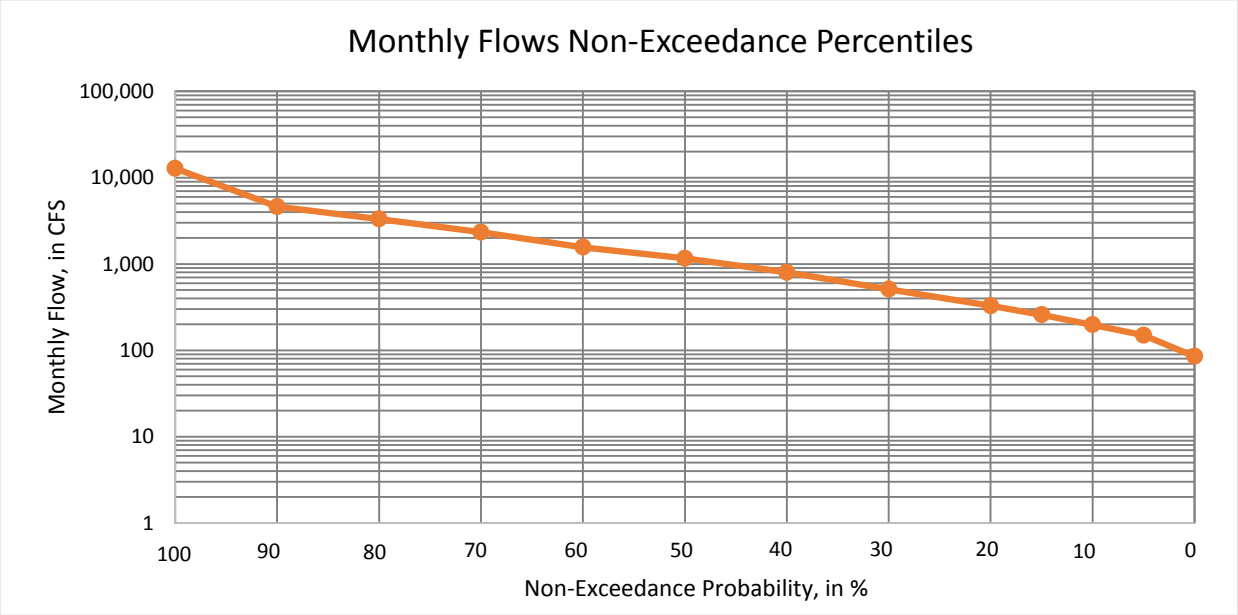
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	5,172	6,356	5,972	2,258	1,405	719	1,434	1,488	1,053	2,004	1,224	1,798	2,556
1976	5,050	2,522	8,122	2,973	2,853	1,404	775	480	571	268	445	1,895	2,288
1977	3,362	2,084	7,335	6,356	592	281	339	260	1,617	3,918	4,405	2,103	2,721
1978	4,292	1,363	2,912	1,041	3,151	930	373	547	218	123	219	960	1,352
1979	4,608	3,482	5,895	9,462	1,373	1,002	511	609	3,343	1,058	3,061	968	2,929
1980	3,310	2,983	12,808	6,155	3,277	663	288	246	976	1,345	1,375	1,004	2,875
1981	522	3,159	3,075	2,760	442	684	308	361	444	194	183	1,528	1,123
1982	5,626	4,775	2,410	4,423	1,363	1,209	700	537	227	335	540	6,251	2,355
1983	2,160	5,237	3,950	5,492	5,965	1,164	328	167	149	201	1,488	7,870	2,836
1984	3,211	1,896	2,671	4,359	3,370	408	243	436	132	260	683	1,111	1,564
1985	950	4,947	1,344	1,113	1,524	342	2,566	1,067	252	634	975	1,461	1,411
1986	902	1,516	1,224	392	528	477	178	247	324	493	1,645	1,514	781
1987	962	3,343	4,603	1,538	432	682	1,232	165	144	93	185	365	1,133
1988	2,078	1,955	1,026	1,685	419	115	197	119	1,310	734	1,989	1,279	1,066
1989	5,761	3,372	5,131	2,990	1,136	4,112	3,796	339	623	1,153	2,009	1,765	2,679
1990	5,615	10,194	4,776	1,042	1,045	486	318	135	126	114	197	1,096	2,047
1991	1,564	3,891	3,110	3,049	4,690	798	316	313	299	137	321	1,101	1,620
1992	1,382	2,508	2,064	1,268	343	473	800	827	1,191	457	3,171	3,530	1,493
1993	5,434	2,299	3,349	1,864	1,395	353	188	258	188	144	275	733	1,373
1994	3,047	3,550	4,638	3,698	779	714	1,439	503	600	1,354	1,252	3,309	2,067
1995	2,336	3,337	4,411	1,556	659	346	172	166	252	3,565	3,060	2,472	1,855
1996	6,800	3,520	5,219	1,821	816	391	771	487	815	477	990	2,299	2,033
1997	4,339	3,402	4,006	1,526	2,763	5,875	1,931	497	572	1,563	1,261	1,571	2,436
1998	6,540	5,562	4,134	4,744	842	585	342	381	135	106	252	1,123	2,040
1999	4,159	3,308	3,213	1,511	1,026	1,972	1,061	191	120	199	204	265	1,426
2000	936	872	4,443	5,713	392	246	147	146	108	103	697	553	1,194
2001	2,205	3,435	7,136	4,887	749	1,392	799	477	2,717	508	563	3,136	2,324
2002	3,708	2,398	2,650	2,133	2,305	444	812	251	740	1,159	2,409	3,994	1,918
2003	1,772	4,572	4,395	1,738	8,741	1,795	1,177	450	288	169	276	464	2,145
2004	1,353	5,851	2,355	878	545	1,195	998	375	1,791	936	7,705	4,164	2,311
2005	1,163	2,054	3,261	4,058	829	1,066	1,860	490	213	146	246	985	1,358
2006	2,276	3,699	2,513	2,477	1,689	259	187	209	297	594	960	662	1,302
2007	2,275	1,188	989	591	231	121	212	102	176	85	111	171	519
2008	402	1,747	2,196	1,303	2,115	556	239	729	209	121	149	2,426	1,015
2009	6,203	2,028	5,539	2,990	3,704	1,021	544	535	2,057	3,623	2,806	4,719	2,997
2010	3,194	3,374	4,618	2,451	2,615	1,164	360	301	159	198	290	485	1,593
2011	1,280	1,410	4,811	3,566	710	295	525	155	4,076	297	1,033	3,509	1,804
2012	4,378	2,363	2,775	667	484	291	470	703	871	535	300	2,307	1,346
2013	6,243	4,329	3,093	3,188	4,631	1,530	1,331	2,321	517	173	457	2,958	2,562
2014	1,897	4,502	2,328	5,532	1,492	889	249	195	154	334	464	2,120	1,656

Non-Exceedance Percentiles

03160111 - Locust Fork Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	402	872	989	392	231	115	147	102	108	85	111	171	519
5th %	883	1,354	1,214	663	389	240	177	135	126	102	181	360	1,003
10th %	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483	1,117
15th %	1,132	1,873	2,308	1,103	477	294	210	166	149	123	216	646	1,184
20th %	1,339	2,014	2,399	1,296	541	346	242	186	158	142	251	915	1,337
30th %	1,860	2,344	2,744	1,550	737	433	314	247	212	188	297	1,068	1,399
40th %	2,247	2,799	3,103	1,847	837	528	340	285	252	236	461	1,216	1,581
Median	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550	1,829
60th %	3,500	3,415	4,401	2,990	1,440	834	729	461	571	499	1,007	1,978	2,043
70th %	4,350	3,595	4,624	3,606	2,172	1,034	804	492	763	664	1,295	2,343	2,295
80th %	5,224	4,516	5,149	4,487	2,913	1,198	1,188	539	1,081	1,154	1,993	3,171	2,460
90th %	5,805	5,270	6,088	5,550	3,796	1,557	1,481	739	1,817	1,607	3,060	4,011	2,733
Maximum	6,800	10,194	12,808	9,462	8,741	5,875	3,796	2,321	4,076	3,918	7,705	7,870	2,997
Average	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051	1,853

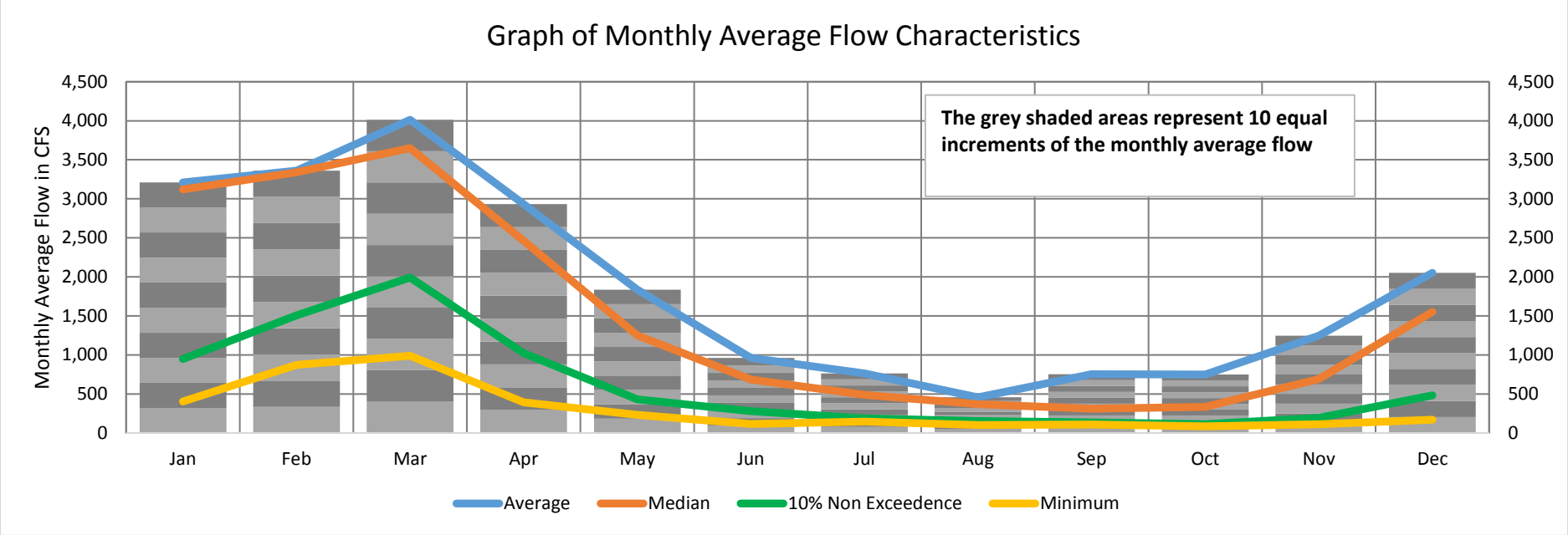
	Flows in CFS
Minimum	85.0
5th %	149
10th %	198
15th %	258
20th %	327
30th %	510
40th %	800
Median	1,161
60th %	1,558
70th %	2,331
80th %	3,309
90th %	4,603
Maximum	12,808
Average	1,861



Q10/Q50	0.17
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.07
Q5/DA	0.12
Q10/DA	0.16
Q15/DA	0.21
Q20/DA	0.27
Q30/DA	0.42
Q40/DA	0.66
Q50/DA	0.96
Q60/DA	1.29
Q70/DA	1.93
Q80/DA	2.74
Q90/DA	3.80
Qmax/DA	10.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

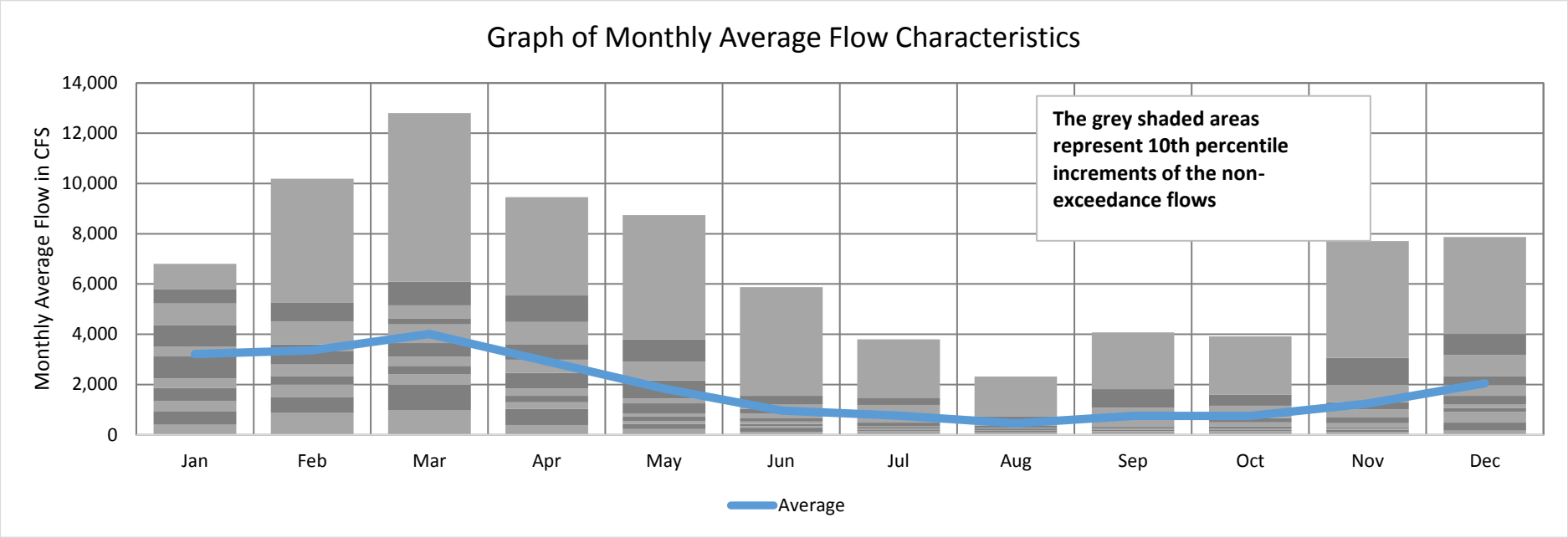
Site #: 03160111 Name: Locust Fork Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051
100%	6,800	10,194	12,808	9,462	8,741	5,875	3,796	2,321	4,076	3,918	7,705	7,870
98%	6,597	7,200	9,153	7,039	6,575	4,500	2,836	1,672	3,504	3,688	5,131	6,608
95%	6,257	5,876	7,374	6,165	4,754	2,079	1,963	1,088	2,748	3,567	3,233	4,796
90%	5,805	5,270	6,088	5,550	3,796	1,557	1,481	739	1,817	1,607	3,060	4,011
75%	4,718	4,000	4,784	4,133	2,652	1,164	1,014	511	897	966	1,527	2,594
50%	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550
25%	1,518	2,077	2,616	1,522	642	381	278	206	185	163	276	981
10%	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483
5%	883	1,354	1,214	663	389	240	177	135	126	102	181	360
2%	496	1,119	1,018	547	318	120	166	115	117	92	141	245
0%	402	872	989	392	231	115	147	102	108	85	111	171

Site #: 03160111 Name: Locust Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,210 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051
100%	6,800	10,194	12,808	9,462	8,741	5,875	3,796	2,321	4,076	3,918	7,705	7,870
98%	6,597	7,200	9,153	7,039	6,575	4,500	2,836	1,672	3,504	3,688	5,131	6,608
95%	6,257	5,876	7,374	6,165	4,754	2,079	1,963	1,088	2,748	3,567	3,233	4,796
90%	5,805	5,270	6,088	5,550	3,796	1,557	1,481	739	1,817	1,607	3,060	4,011
75%	4,718	4,000	4,784	4,133	2,652	1,164	1,014	511	897	966	1,527	2,594
50%	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550
25%	1,518	2,077	2,616	1,522	642	381	278	206	185	163	276	981
10%	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483
5%	883	1,354	1,214	663	389	240	177	135	126	102	181	360
2%	496	1,119	1,018	547	318	120	166	115	117	92	141	245
0%	402	872	989	392	231	115	147	102	108	85	111	171

Monthly Flows (in CFS) for
03160112 - Upper Black Warrior River Subbasin

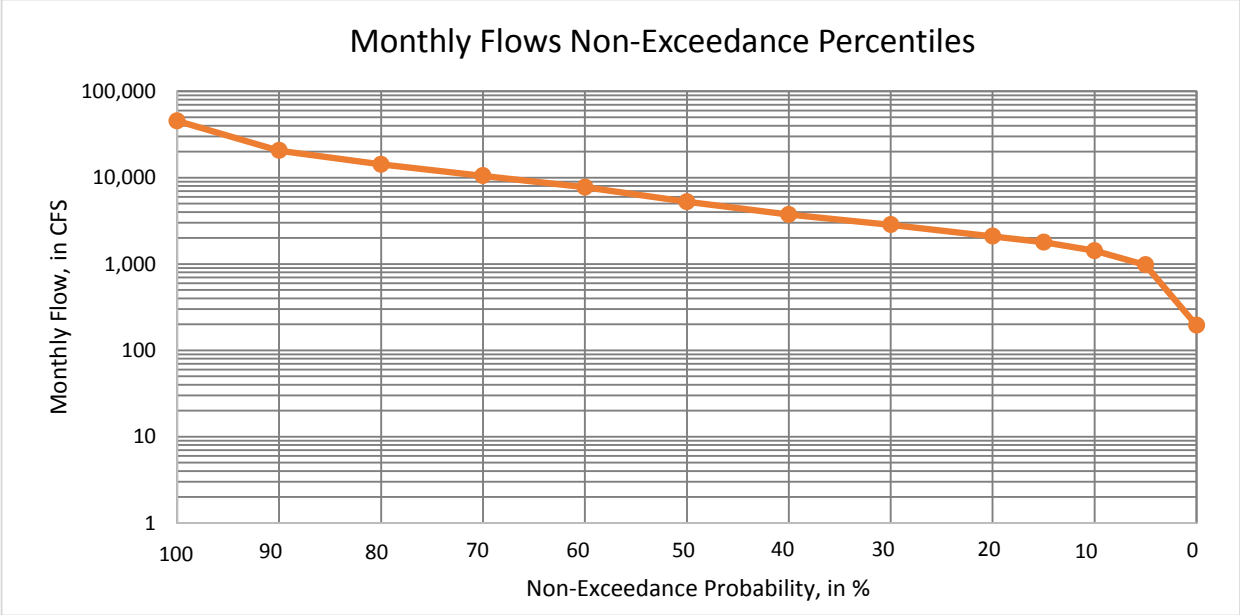
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	21,660	25,270	27,080	12,610	6,902	3,690	5,929	5,839	3,348	10,800	5,157	9,436	11,421
1976	16,790	10,530	28,500	10,370	15,740	4,743	3,627	2,747	3,201	1,328	1,892	7,259	8,923
1977	9,413	7,814	28,530	25,620	2,479	2,060	2,652	2,473	5,374	13,880	14,590	12,140	10,594
1978	15,130	7,876	10,120	2,790	12,020	6,031	2,669	2,783	1,996	1,233	1,001	3,100	5,572
1979	19,670	14,390	25,710	40,620	6,246	3,863	5,003	3,240	7,881	3,843	12,840	8,470	12,594
1980	14,320	11,980	45,340	33,340	14,000	3,402	2,537	1,914	2,703	4,414	5,922	7,559	12,299
1981	2,908	10,110	11,170	11,390	1,420	3,381	2,464	2,258	2,244	874	677	4,122	4,371
1982	19,980	20,040	11,080	18,620	5,748	6,160	3,947	3,525	1,405	1,177	2,836	22,190	9,668
1983	12,340	25,090	21,830	26,890	23,620	6,220	3,025	2,477	2,019	822	9,264	32,610	13,788
1984	14,170	10,830	11,390	19,210	16,460	2,978	2,816	3,053	1,403	1,393	3,328	7,730	7,885
1985	4,641	16,810	4,703	4,160	8,318	2,947	7,494	5,588	2,290	4,067	4,734	6,501	5,960
1986	3,421	6,062	5,243	1,236	2,001	3,443	1,803	1,672	2,044	1,911	4,947	8,560	3,514
1987	14,830	17,780	20,520	5,210	2,268	4,481	4,173	1,938	1,656	194	638	2,468	6,289
1988	8,773	8,339	3,760	6,068	1,260	1,454	1,489	1,619	3,891	3,244	8,023	6,490	4,499
1989	22,570	16,200	23,550	12,560	4,445	13,880	16,750	2,675	3,829	4,967	8,980	9,184	11,615
1990	23,600	44,360	24,120	5,461	6,047	3,097	2,668	1,969	1,569	361	686	8,751	10,026
1991	11,130	19,260	17,850	22,810	28,520	4,958	2,780	2,415	2,063	1,142	1,899	7,775	10,168
1992	6,775	10,470	7,885	4,652	1,291	2,929	3,178	4,309	4,772	1,982	11,220	13,190	6,020
1993	25,390	10,610	13,910	8,434	8,494	2,550	2,157	2,095	1,942	777	959	3,466	6,736
1994	13,530	22,450	24,660	20,530	3,149	3,172	5,353	3,742	2,725	4,371	5,335	12,960	10,088
1995	10,290	14,170	19,400	8,507	4,103	2,450	1,783	2,052	1,511	7,342	12,180	11,820	7,936
1996	26,470	15,850	21,160	9,863	3,585	2,429	4,964	3,166	3,547	2,071	5,233	10,620	9,066
1997	19,570	16,240	16,550	5,183	10,590	22,810	9,846	3,610	2,290	4,436	3,715	6,595	10,087
1998	29,020	22,520	20,290	16,880	4,052	2,610	2,714	2,842	1,589	1,055	1,117	5,654	9,126
1999	20,950	16,610	15,430	6,692	4,873	5,841	4,202	1,771	1,469	707	661	1,061	6,640
2000	4,692	3,232	20,800	29,850	2,321	1,902	1,456	1,535	1,283	223	2,768	2,849	6,068
2001	9,576	14,890	25,940	19,320	3,278	6,872	3,530	3,464	10,350	6,253	5,253	18,840	10,597
2002	16,900	13,010	10,360	8,360	10,780	2,601	3,650	1,756	4,038	5,180	13,370	15,810	8,802
2003	8,949	21,760	19,290	8,969	33,030	8,529	5,738	3,411	2,606	1,298	3,174	4,183	10,029
2004	7,619	26,470	12,210	3,633	3,023	6,322	6,315	2,678	5,225	2,405	20,180	21,990	9,713
2005	8,463	8,673	10,510	17,300	3,167	11,430	9,407	5,147	3,916	1,178	1,064	5,465	7,117
2006	10,860	18,210	10,660	8,550	7,561	1,910	1,628	1,783	1,550	2,321	5,753	4,062	6,159
2007	11,340	5,700	3,028	1,684	644	946	1,486	1,364	1,008	256	253	231	2,315
2008	976	7,102	8,673	5,444	8,951	2,631	2,032	2,431	1,321	350	377	10,320	4,213
2009	29,870	8,980	24,110	13,350	15,300	4,943	2,257	2,872	12,060	19,120	11,870	21,450	13,925
2010	14,350	15,540	18,270	9,488	12,510	3,663	1,870	1,589	647	557	883	1,727	6,720
2011	7,601	5,883	25,010	20,240	3,565	2,811	2,802	1,664	22,800	714	2,742	12,380	9,009
2012	20,660	11,840	12,190	3,153	2,258	1,971	2,109	3,874	4,353	2,995	1,522	9,249	6,342
2013	31,290	20,320	14,780	13,730	14,840	4,516	8,137	7,294	2,172	614	1,434	10,070	10,746
2014	9,038	16,480	9,112	26,490	5,878	5,774	1,897	1,271	1,221	3,298	2,133	11,860	7,789

Non-Exceedance Percentiles

03160112 - Upper Black Warrior River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231	2,315
5th %	3,395	5,874	4,656	2,735	1,289	1,880	1,489	1,526	1,210	254	625	1,694	4,178
10th %	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811	4,487
15th %	7,477	7,867	9,046	4,578	2,267	2,374	1,860	1,671	1,405	605	853	3,411	5,902
20th %	8,294	8,606	10,312	5,205	2,447	2,530	2,005	1,768	1,503	712	993	4,110	6,058
30th %	9,301	10,512	11,143	6,505	3,245	2,757	2,402	1,960	1,636	1,001	1,496	6,239	6,551
40th %	11,022	11,924	13,230	8,533	4,083	3,049	2,669	2,352	2,034	1,211	2,498	7,439	7,520
Median	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515	8,862
60th %	14,950	16,216	19,756	12,906	7,166	4,110	3,569	2,807	2,712	2,355	5,031	9,324	9,343
70th %	19,600	17,101	21,361	17,696	9,443	4,948	4,182	3,188	3,632	3,462	5,460	10,980	10,046
80th %	21,092	20,096	24,228	20,298	12,808	6,057	5,430	3,542	4,101	4,418	9,037	12,496	10,594
90th %	25,498	22,777	26,054	26,530	15,812	7,038	7,558	4,393	5,625	6,362	12,246	19,101	11,683
Maximum	31,290	44,360	45,340	40,620	33,030	22,810	16,750	7,294	22,800	19,120	20,180	32,610	13,925
Average	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505	8,361

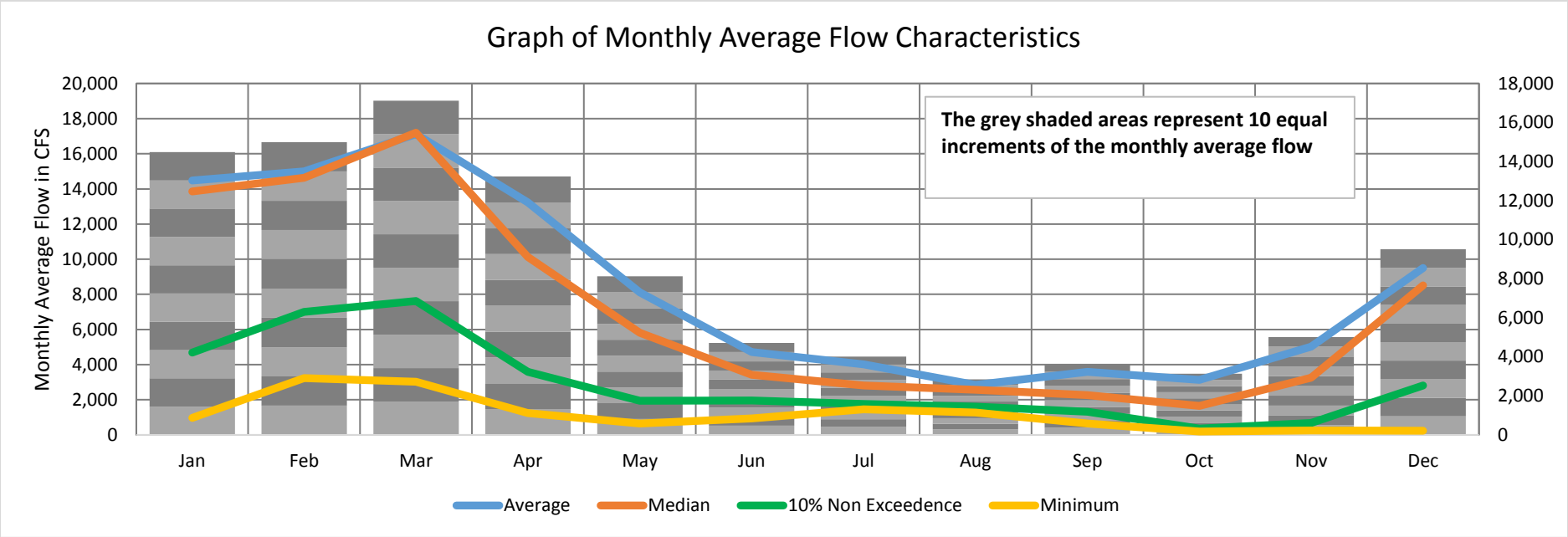
	Flows in CFS
Minimum	194.1
5th %	976
10th %	1,419
15th %	1,783
20th %	2,090
30th %	2,840
40th %	3,731
Median	5,238
60th %	7,748
70th %	10,482
80th %	14,200
90th %	20,521
Maximum	45,340
Average	8,396



Q10/Q50	0.27
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.04
Q5/DA	0.20
Q10/DA	0.29
Q15/DA	0.37
Q20/DA	0.43
Q30/DA	0.59
Q40/DA	0.77
Q50/DA	1.09
Q60/DA	1.61
Q70/DA	2.17
Q80/DA	2.95
Q90/DA	4.26
Qmax/DA	9.41

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

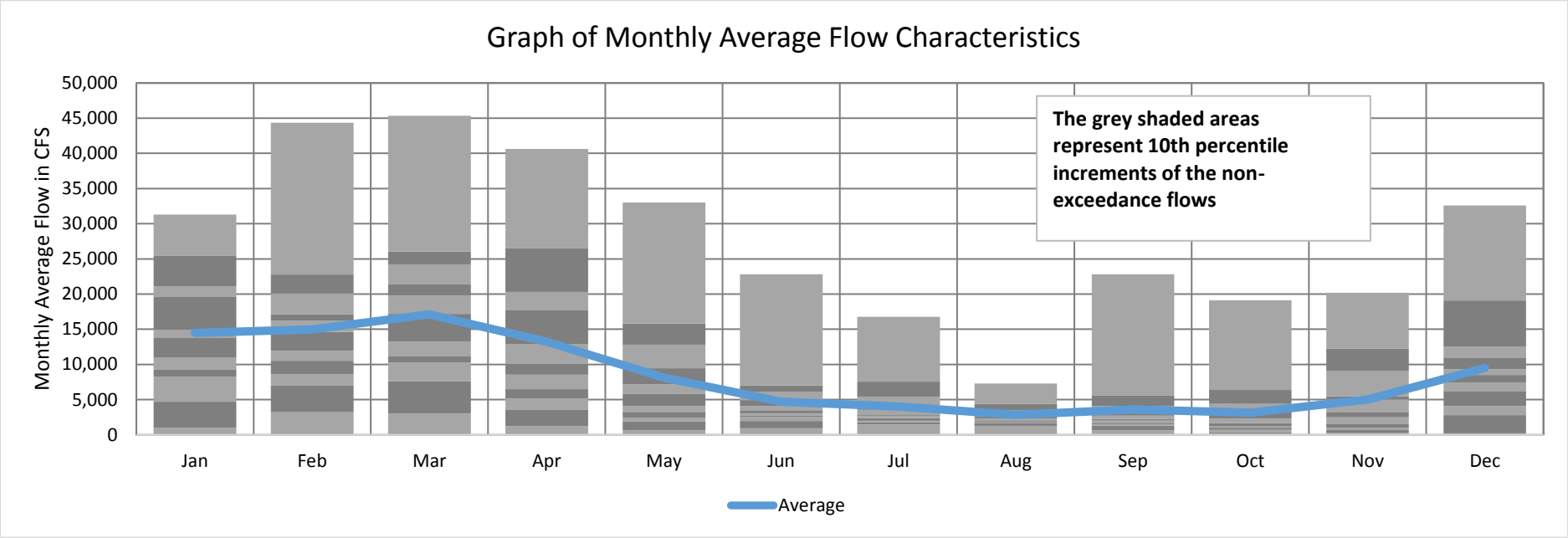
Site #: 03160112 Name: Upper Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505
100%	31,290	44,360	45,340	40,620	33,030	22,810	16,750	7,294	22,800	19,120	20,180	32,610
98%	30,182	30,406	32,228	34,942	29,512	15,845	11,365	6,159	14,423	15,033	15,820	24,482
95%	29,063	25,330	28,502	30,025	23,865	11,553	9,429	5,601	10,436	10,954	13,431	22,000
90%	25,498	22,777	26,054	26,530	15,812	7,038	7,558	4,393	5,625	6,362	12,246	19,101
75%	20,150	18,473	23,690	19,238	11,090	5,791	4,974	3,424	3,897	4,143	6,447	11,930
50%	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515
25%	8,905	9,828	10,623	5,457	3,118	2,608	2,145	1,881	1,564	811	1,104	5,145
10%	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811
5%	3,395	5,874	4,656	2,735	1,289	1,880	1,489	1,526	1,210	254	625	1,694
2%	2,483	5,157	3,599	1,585	1,124	1,342	1,479	1,344	929	216	349	878
0%	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231

Site #: 03160112 Name: Upper Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,820 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505
100%	31,290	44,360	45,340	40,620	33,030	22,810	16,750	7,294	22,800	19,120	20,180	32,610
98%	30,182	30,406	32,228	34,942	29,512	15,845	11,365	6,159	14,423	15,033	15,820	24,482
95%	29,063	25,330	28,502	30,025	23,865	11,553	9,429	5,601	10,436	10,954	13,431	22,000
90%	25,498	22,777	26,054	26,530	15,812	7,038	7,558	4,393	5,625	6,362	12,246	19,101
75%	20,150	18,473	23,690	19,238	11,090	5,791	4,974	3,424	3,897	4,143	6,447	11,930
50%	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515
25%	8,905	9,828	10,623	5,457	3,118	2,608	2,145	1,881	1,564	811	1,104	5,145
10%	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811
5%	3,395	5,874	4,656	2,735	1,289	1,880	1,489	1,526	1,210	254	625	1,694
2%	2,483	5,157	3,599	1,585	1,124	1,342	1,479	1,344	929	216	349	878
0%	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231

Monthly Flows (in CFS) for
03160113 - Lower Black Warrior River Subbasin

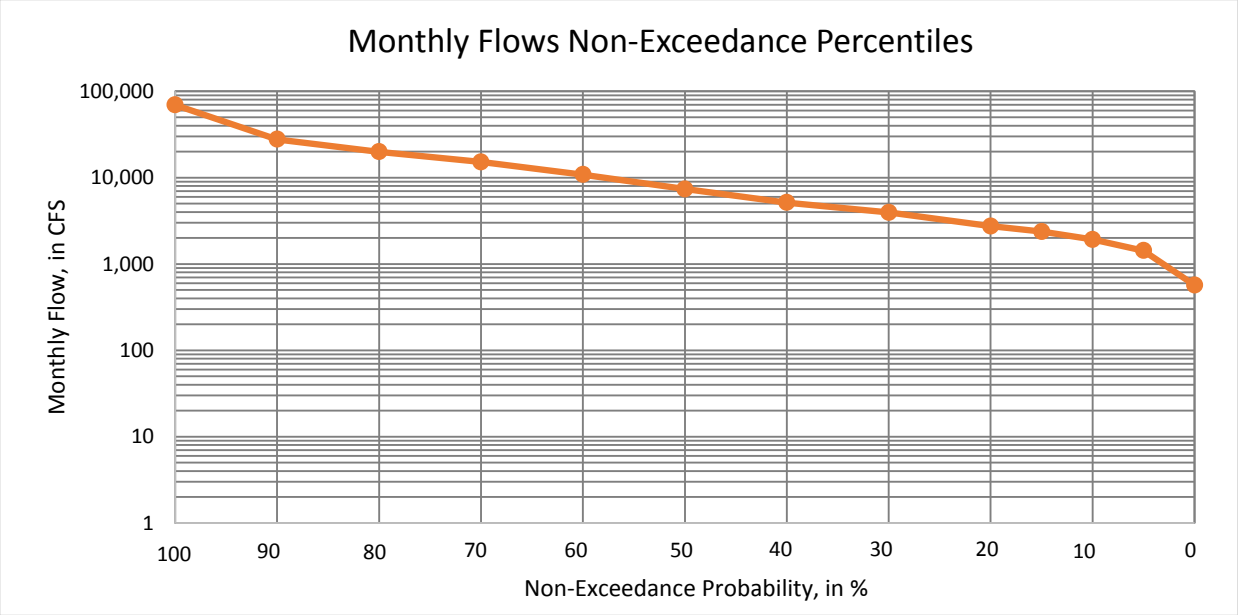
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	28,207	31,768	34,671	18,823	9,305	5,027	7,326	8,056	4,233	13,793	6,376	11,972	14,894
1976	21,814	13,904	34,223	17,533	21,814	6,411	4,346	3,216	3,731	1,732	2,383	9,628	11,756
1977	18,487	9,712	38,182	34,794	3,312	2,303	3,005	2,781	5,280	16,179	16,485	14,630	13,785
1978	18,130	10,993	13,081	4,800	15,907	8,176	2,639	2,687	1,918	1,037	1,058	4,030	7,039
1979	23,856	19,340	37,339	69,339	8,346	4,972	6,567	3,953	9,225	4,136	13,979	10,503	17,542
1980	18,455	16,502	57,449	50,581	18,917	4,659	3,159	2,544	2,655	5,775	6,791	8,713	16,351
1981	3,599	13,497	11,989	18,462	2,001	3,787	2,339	2,049	2,159	1,095	1,018	4,707	5,484
1982	23,990	26,607	16,590	22,958	8,188	7,355	4,851	4,739	1,784	1,511	2,861	27,693	12,351
1983	17,080	38,015	32,422	37,372	27,414	10,071	4,648	2,634	2,476	1,407	5,903	35,031	17,750
1984	22,727	15,158	16,365	22,546	23,324	3,926	3,255	4,219	1,392	2,309	4,053	11,271	10,875
1985	5,648	27,262	8,872	6,723	10,201	3,613	7,826	7,249	2,688	5,675	6,054	9,097	8,294
1986	5,136	8,244	7,762	1,955	2,977	4,452	2,039	1,913	2,302	2,670	7,366	13,215	4,987
1987	25,416	20,537	33,557	8,251	3,923	5,856	5,080	2,409	2,133	569	958	3,131	9,281
1988	11,382	11,215	5,220	8,546	1,624	1,424	2,648	1,886	4,700	4,703	12,255	8,928	6,164
1989	28,297	18,062	33,615	19,836	8,099	18,448	24,899	4,122	4,740	7,643	13,444	15,329	16,389
1990	36,704	65,835	37,056	11,015	9,229	5,090	3,406	2,377	1,759	918	1,393	9,040	15,018
1991	16,393	24,369	28,868	27,406	43,771	10,769	4,478	3,060	3,243	1,592	3,289	10,346	14,760
1992	11,950	18,293	13,026	8,055	2,055	4,086	4,007	6,144	8,301	2,879	18,000	20,112	9,673
1993	36,388	18,186	18,942	13,994	11,583	3,628	3,104	3,582	2,648	1,573	2,712	5,656	10,149
1994	15,177	20,906	25,947	30,456	5,115	4,643	8,062	5,265	4,179	6,637	6,890	19,234	12,655
1995	15,157	20,264	29,870	12,948	7,093	4,087	2,731	2,892	1,973	10,075	17,019	16,914	11,712
1996	28,257	31,207	30,019	15,181	5,441	3,572	6,177	4,451	4,545	2,867	6,933	13,053	12,545
1997	26,059	25,148	24,764	10,024	12,802	27,877	17,224	5,669	3,112	5,683	6,476	10,897	14,589
1998	39,908	32,840	28,993	23,231	6,284	3,951	4,246	4,138	2,462	2,716	2,454	7,446	13,118
1999	23,603	28,749	22,553	10,093	6,588	6,917	7,289	2,129	1,799	1,430	1,565	2,866	9,524
2000	7,454	5,495	24,254	31,956	3,082	2,418	1,716	1,642	1,326	683	4,162	4,891	7,411
2001	12,617	19,739	38,307	24,111	3,858	9,318	3,550	3,483	14,006	8,505	5,571	25,137	13,978
2002	22,076	20,738	13,362	12,042	12,209	3,219	4,850	2,616	4,956	7,409	17,428	22,047	11,868
2003	13,034	26,276	31,010	16,822	37,601	12,236	9,844	6,358	3,639	2,579	4,479	6,163	14,124
2004	11,375	36,413	17,108	6,439	4,233	7,992	9,117	4,100	7,096	3,642	24,407	30,912	13,405
2005	13,287	17,410	17,539	30,740	6,029	21,510	18,917	5,070	6,174	2,293	2,183	7,691	12,332
2006	13,044	25,345	19,638	15,470	11,011	2,339	1,852	2,028	1,968	3,653	7,785	4,794	8,967
2007	15,793	8,786	4,678	2,732	1,037	1,117	2,302	1,631	1,572	714	705	782	3,465
2008	1,653	11,517	12,698	8,050	11,700	3,675	2,004	3,756	1,922	713	774	12,801	5,918
2009	26,586	6,556	32,669	30,370	21,031	7,264	3,006	4,192	18,986	25,316	19,892	31,683	19,063
2010	22,761	28,614	27,558	13,078	16,663	6,117	3,170	1,924	618	994	1,617	3,297	10,442
2011	10,159	9,708	34,437	26,843	5,951	1,710	2,746	1,983	14,658	1,254	2,847	15,659	10,661
2012	26,642	18,811	18,784	4,689	3,406	1,819	2,793	4,634	6,450	3,813	2,199	12,973	8,893
2013	38,230	36,845	24,053	17,722	20,162	6,447	11,428	9,366	2,808	1,044	2,509	15,276	15,404
2014	13,906	23,835	16,143	32,687	12,471	7,182	2,499	1,807	1,597	4,077	3,397	14,255	11,050

Non-Exceedance Percentiles

03160113 - Lower Black Warrior River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782	3,465
5th %	5,059	8,160	7,635	4,591	1,982	1,696	1,997	1,799	1,389	711	949	3,118	5,460
10th %	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956	6,140
15th %	11,193	10,801	12,977	7,851	3,277	2,406	2,475	1,974	1,780	1,031	1,539	4,781	7,355
20th %	11,836	11,456	13,306	8,212	3,767	3,501	2,646	2,045	1,894	1,085	2,070	5,503	8,773
30th %	13,214	16,098	16,953	10,738	5,343	3,754	2,941	2,504	2,085	1,487	2,493	8,407	9,629
40th %	15,546	18,250	19,360	13,627	6,466	4,087	3,165	2,744	2,470	2,069	3,118	9,415	10,790
Median	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084	11,812
60th %	22,337	22,078	28,918	19,228	10,525	5,960	4,546	4,012	3,676	3,646	6,183	13,005	12,589
70th %	23,896	25,624	31,434	23,495	12,288	6,996	5,409	4,200	4,592	4,306	6,903	14,823	13,843
80th %	26,597	28,641	33,737	30,387	17,114	8,029	7,426	4,805	5,459	5,947	12,493	17,378	14,787
90th %	29,106	33,197	37,084	32,898	21,965	10,915	10,002	6,165	8,393	8,662	17,060	25,393	16,354
Maximum	39,908	65,835	57,449	69,339	43,771	27,877	24,899	9,366	18,986	25,316	24,407	35,031	19,063
Average	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795	11,592

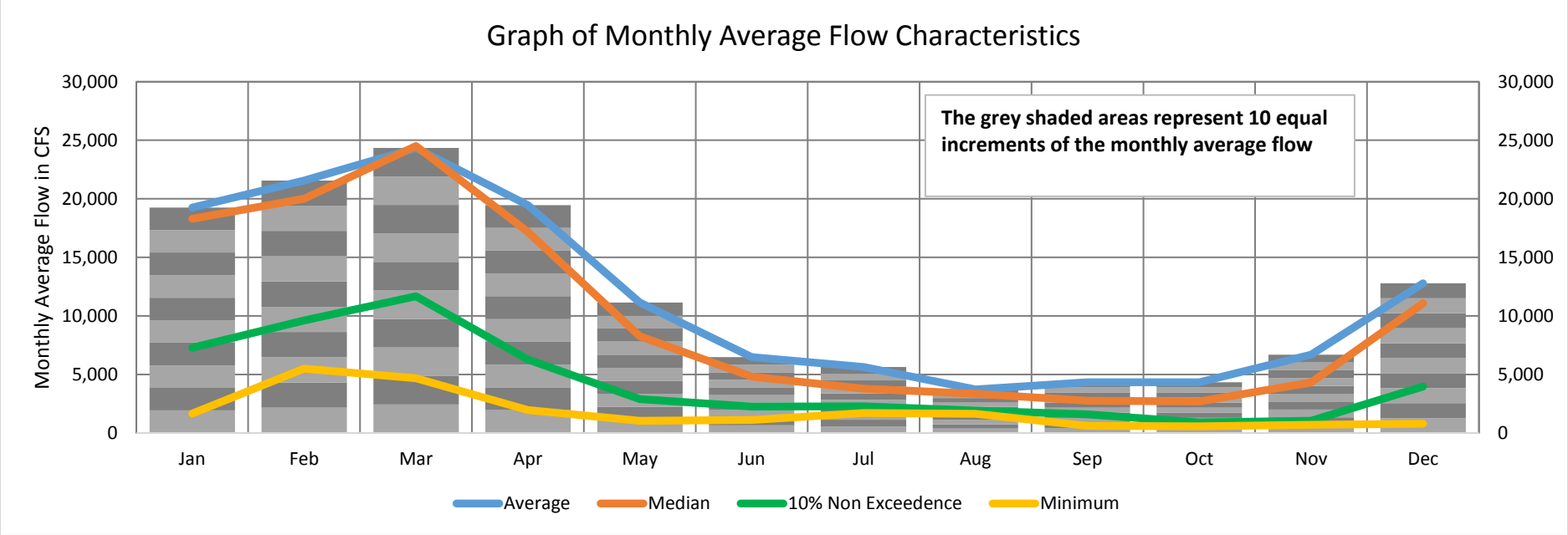
	Flows in CFS
Minimum	569.2
5th %	1,430
10th %	1,921
15th %	2,371
20th %	2,743
30th %	3,943
40th %	5,127
Median	7,361
60th %	10,820
70th %	15,164
80th %	19,848
90th %	27,711
Maximum	69,339
Average	11,647



Q10/Q50	0.26
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.09
Q5/DA	0.23
Q10/DA	0.30
Q15/DA	0.38
Q20/DA	0.44
Q30/DA	0.63
Q40/DA	0.81
Q50/DA	1.17
Q60/DA	1.72
Q70/DA	2.41
Q80/DA	3.15
Q90/DA	4.40
Qmax/DA	11.01

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

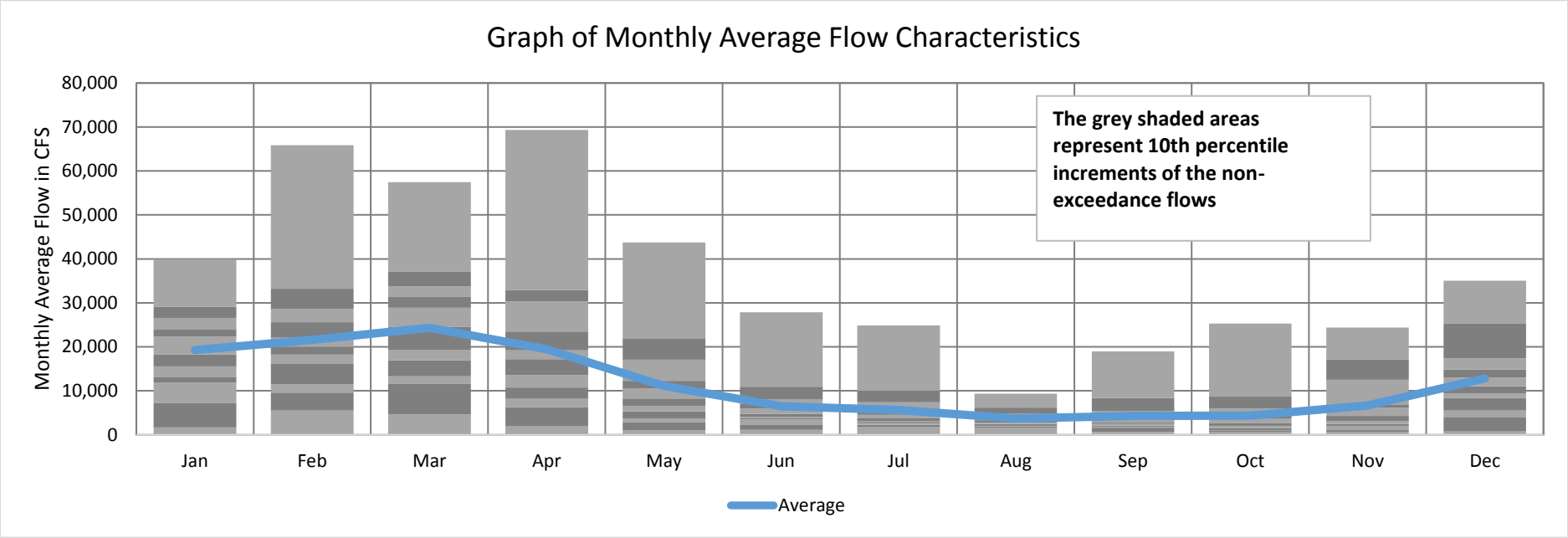
Site #: 03160113 Name: Lower Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795
100%	39,908	65,835	57,449	69,339	43,771	27,877	24,899	9,366	18,986	25,316	24,407	35,031
98%	38,599	44,136	42,518	54,707	38,958	22,911	20,233	8,344	15,610	18,189	20,886	32,419
95%	36,781	36,903	38,188	38,033	27,923	18,601	17,309	7,289	14,039	13,912	18,095	30,951
90%	29,106	33,197	37,084	32,898	21,965	10,915	10,002	6,165	8,393	8,662	17,060	25,393
75%	25,577	26,771	32,891	26,984	13,578	7,287	6,747	4,497	4,794	5,677	7,471	15,412
50%	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084
25%	12,930	13,802	16,310	9,654	4,155	3,624	2,742	2,315	1,956	1,369	2,337	7,125
10%	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956
5%	5,059	8,160	7,635	4,591	1,982	1,696	1,997	1,799	1,389	711	949	3,118
2%	3,171	6,323	5,101	2,561	1,495	1,356	1,822	1,639	1,170	658	759	2,408
0%	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782

Site #: 03160113 Name: Lower Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 6,300 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795
100%	39,908	65,835	57,449	69,339	43,771	27,877	24,899	9,366	18,986	25,316	24,407	35,031
98%	38,599	44,136	42,518	54,707	38,958	22,911	20,233	8,344	15,610	18,189	20,886	32,419
95%	36,781	36,903	38,188	38,033	27,923	18,601	17,309	7,289	14,039	13,912	18,095	30,951
90%	29,106	33,197	37,084	32,898	21,965	10,915	10,002	6,165	8,393	8,662	17,060	25,393
75%	25,577	26,771	32,891	26,984	13,578	7,287	6,747	4,497	4,794	5,677	7,471	15,412
50%	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084
25%	12,930	13,802	16,310	9,654	4,155	3,624	2,742	2,315	1,956	1,369	2,337	7,125
10%	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956
5%	5,059	8,160	7,635	4,591	1,982	1,696	1,997	1,799	1,389	711	949	3,118
2%	3,171	6,323	5,101	2,561	1,495	1,356	1,822	1,639	1,170	658	759	2,408
0%	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782

Monthly Flows (in CFS) for
03160201 - Middle Tombigbee-Chickasaw River Subbasin

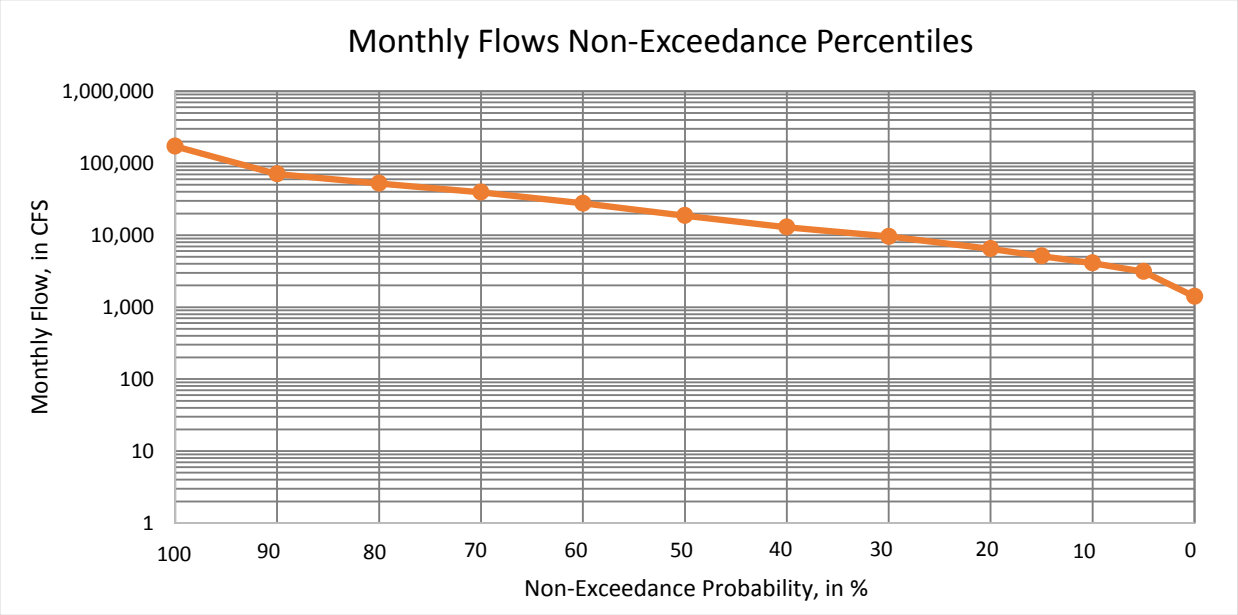
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	97,090	81,960	90,100	75,510	27,880	16,910	13,060	21,880	10,290	39,840	16,050	27,120	42,969
1976	50,680	40,590	81,770	70,860	43,630	14,020	8,005	6,276	8,012	4,279	6,497	24,020	29,854
1977	52,250	23,850	117,000	90,840	9,831	5,272	6,336	6,082	10,790	29,370	38,030	44,130	36,249
1978	45,770	28,980	39,450	13,850	52,440	25,100	6,008	5,149	3,130	1,863	2,448	9,942	19,525
1979	68,720	60,600	94,450	147,900	27,390	15,820	22,270	8,901	33,190	10,500	39,560	36,350	46,896
1980	55,190	44,960	123,300	171,600	72,770	14,220	7,556	4,848	4,604	10,290	14,920	16,380	44,985
1981	7,689	32,010	29,350	52,650	7,595	10,530	4,416	3,940	4,209	2,860	1,973	9,562	13,712
1982	58,790	56,780	35,980	62,650	22,070	12,450	10,450	12,060	4,001	3,850	7,766	89,720	31,278
1983	63,830	126,800	115,000	131,400	88,240	45,410	12,610	4,617	5,288	3,713	16,920	100,900	59,115
1984	61,800	37,270	49,300	57,190	69,850	7,925	6,691	8,780	2,890	12,620	13,430	25,550	29,477
1985	15,790	80,450	25,970	19,420	28,800	8,735	11,000	12,870	5,476	13,570	13,580	19,430	20,875
1986	11,540	19,820	23,670	5,781	8,867	14,980	4,313	3,315	3,720	5,776	31,920	46,050	14,949
1987	64,900	52,600	85,490	17,710	10,000	11,920	8,057	4,097	3,518	1,401	3,451	7,774	22,477
1988	22,590	28,120	15,600	25,370	4,460	2,557	5,458	3,125	10,000	11,470	23,650	19,460	14,197
1989	83,570	49,850	83,520	51,480	26,310	49,640	58,070	8,613	7,787	17,450	28,270	32,250	41,409
1990	99,910	161,100	97,510	27,440	23,050	14,390	6,549	3,843	2,913	2,270	3,784	41,410	39,664
1991	49,860	71,270	87,170	98,840	153,100	54,200	9,932	6,207	6,481	3,800	9,038	39,750	49,032
1992	28,450	39,590	33,080	19,310	4,663	11,080	7,757	12,480	12,800	4,658	36,000	43,260	20,956
1993	87,050	44,900	41,890	41,550	30,390	8,108	6,583	8,330	5,277	3,590	10,080	15,800	25,234
1994	38,080	92,560	59,440	73,240	10,340	15,390	28,680	9,577	7,064	12,870	12,980	39,970	32,930
1995	37,370	53,270	97,360	51,270	21,930	9,269	6,165	8,104	3,255	15,380	29,120	41,150	31,042
1996	52,160	67,270	60,140	42,420	12,100	9,699	11,070	10,680	10,170	7,045	17,390	38,870	28,022
1997	55,350	58,080	55,480	25,970	40,520	68,860	33,890	12,220	6,124	11,030	15,140	30,010	34,254
1998	84,480	61,160	61,710	38,500	15,450	8,743	12,650	10,460	6,176	4,997	5,371	22,100	27,516
1999	60,430	74,100	53,950	26,020	15,960	13,650	15,250	2,353	2,273	3,306	2,892	5,386	22,673
2000	14,430	10,790	34,750	73,910	7,091	5,359	3,132	2,739	2,161	1,508	9,692	14,890	14,988
2001	37,670	60,180	93,050	54,160	9,219	25,440	7,579	7,782	24,100	23,150	10,870	67,280	34,903
2002	52,220	54,390	42,470	32,290	31,840	6,258	9,663	4,897	13,400	26,720	42,930	57,310	31,090
2003	30,320	71,050	79,570	51,190	71,780	37,170	30,920	24,140	14,460	8,623	18,030	24,100	38,268
2004	33,160	91,990	49,290	17,130	12,330	26,610	27,840	9,718	14,120	15,170	45,010	74,570	34,373
2005	33,040	50,240	40,180	61,720	14,320	43,570	37,170	12,660	22,500	6,614	6,806	21,790	28,996
2006	41,820	67,380	49,450	22,340	25,830	4,697	3,246	3,442	4,015	10,470	21,530	13,480	22,038
2007	46,110	22,840	13,470	7,031	2,866	2,416	5,036	2,531	3,068	2,939	2,742	3,754	9,521
2008	7,729	34,000	31,850	25,190	27,560	9,773	4,515	11,660	8,899	4,343	4,232	48,420	18,118
2009	63,500	16,990	85,540	62,710	54,700	14,210	6,410	8,685	40,870	56,230	41,120	73,960	44,008
2010	56,280	69,760	55,550	26,640	40,960	13,440	6,764	4,428	2,037	2,909	4,663	9,296	24,160
2011	24,980	22,310	72,560	62,920	20,190	5,026	5,702	4,692	22,510	2,760	5,316	31,040	23,336
2012	48,770	45,650	53,980	14,790	8,580	3,848	6,536	8,737	13,340	10,460	4,811	30,610	20,766
2013	86,390	87,460	58,770	52,610	47,690	15,600	24,480	16,220	5,856	3,954	8,019	35,460	36,639
2014	30,530	56,920	39,800	93,200	30,010	21,580	8,782	4,208	3,792	10,450	9,774	30,370	28,008

Non-Exceedance Percentiles

03160201 - Middle Tombigbee-Chickasaw River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754	9,521
5th %	11,349	19,679	23,267	13,509	4,653	3,783	4,260	2,729	2,267	1,845	2,727	7,655	14,172
10th %	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535	14,984
15th %	24,622	27,480	32,896	19,070	8,824	5,346	5,395	3,783	3,121	2,902	4,165	12,949	19,314
20th %	29,946	31,404	35,734	21,756	9,709	7,592	5,947	4,066	3,465	3,233	4,781	15,618	20,853
30th %	36,107	40,290	41,377	26,005	12,261	9,111	6,498	4,670	4,011	3,835	6,713	21,091	22,614
40th %	44,190	48,170	49,390	36,016	18,498	10,860	6,735	5,709	5,284	4,532	9,430	24,970	26,603
Median	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490	29,236
60th %	53,426	58,920	60,768	53,254	27,688	14,288	9,771	8,706	7,877	10,454	15,008	35,816	31,165
70th %	59,282	67,303	82,295	62,668	30,825	15,666	11,532	9,619	10,206	11,162	17,582	40,324	34,532
80th %	64,044	71,836	87,756	73,374	44,442	25,168	16,654	11,740	13,352	13,890	28,440	44,514	38,547
90th %	84,671	87,913	97,375	93,764	70,043	43,754	28,904	12,681	22,501	23,507	38,183	67,948	44,105
Maximum	99,910	161,100	123,300	171,600	153,100	68,860	58,070	24,140	40,870	56,230	45,010	100,900	59,115
Average	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067	29,713

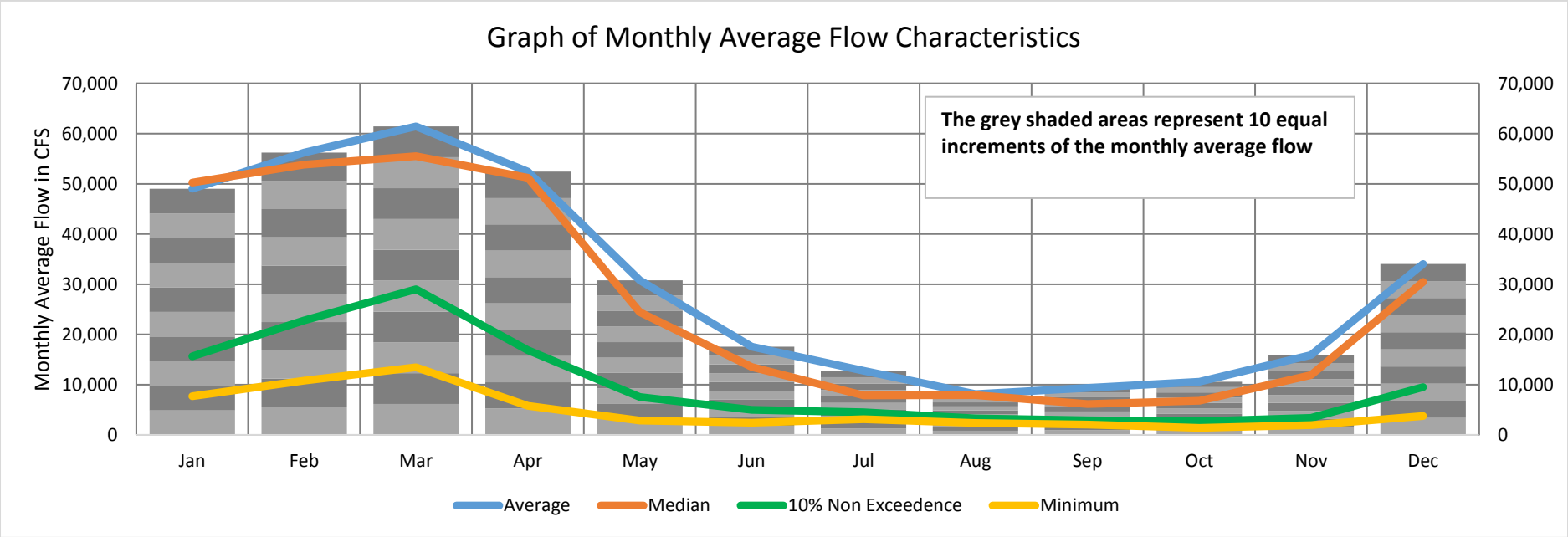
	Flows in CFS
Minimum	1,401.0
5th %	3,122
10th %	4,089
15th %	5,132
20th %	6,467
30th %	9,573
40th %	12,870
Median	18,670
60th %	27,672
70th %	39,569
80th %	52,288
90th %	70,879
Maximum	171,600
Average	29,863



Q10/Q50	0.22
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.08
Q5/DA	0.17
Q10/DA	0.22
Q15/DA	0.28
Q20/DA	0.35
Q30/DA	0.52
Q40/DA	0.70
Q50/DA	1.01
Q60/DA	1.50
Q70/DA	2.15
Q80/DA	2.84
Q90/DA	3.85
Qmax/DA	9.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

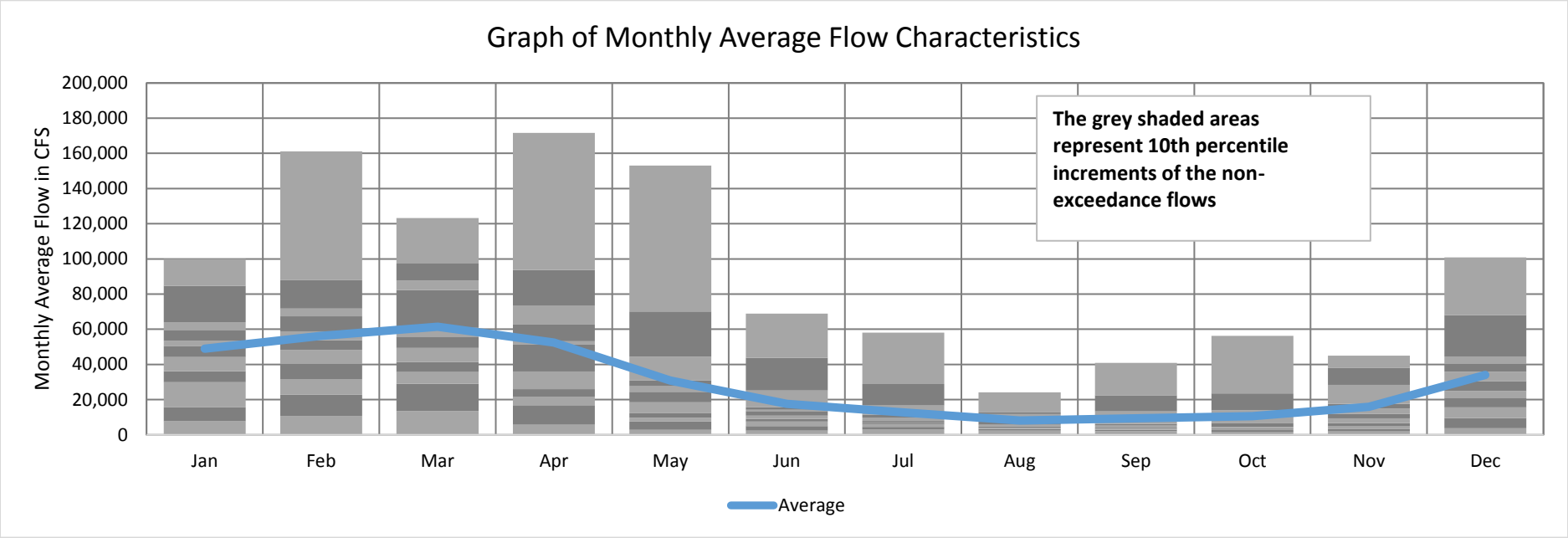
Site #: 03160201 Name: Middle Tombigbee-Chickasaw River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067
100%	99,910	161,100	123,300	171,600	153,100	68,860	58,070	24,140	40,870	56,230	45,010	100,900
98%	97,710	134,346	118,386	153,114	102,509	57,425	41,768	22,377	34,880	43,446	43,388	92,180
95%	87,552	94,272	115,100	132,225	73,544	49,868	34,054	16,503	24,555	29,894	41,211	75,328
90%	84,671	87,913	97,375	93,764	70,043	43,754	28,904	12,681	22,501	23,507	38,183	67,948
75%	62,225	70,083	85,503	64,905	40,630	18,078	12,753	10,515	11,293	12,683	22,060	41,873
50%	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490
25%	32,413	36,453	39,713	25,325	10,255	8,578	6,293	4,373	3,774	3,682	5,357	18,668
10%	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535
5%	11,349	19,679	23,267	13,509	4,653	3,783	4,260	2,729	2,267	1,845	2,727	7,655
2%	7,720	15,626	15,131	6,756	4,109	2,526	3,221	2,492	2,134	1,484	2,344	5,027
0%	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754

Site #: 03160201 Name: Middle Tombigbee-Chickasaw River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 18,417 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067
100%	99,910	161,100	123,300	171,600	153,100	68,860	58,070	24,140	40,870	56,230	45,010	100,900
98%	97,710	134,346	118,386	153,114	102,509	57,425	41,768	22,377	34,880	43,446	43,388	92,180
95%	87,552	94,272	115,100	132,225	73,544	49,868	34,054	16,503	24,555	29,894	41,211	75,328
90%	84,671	87,913	97,375	93,764	70,043	43,754	28,904	12,681	22,501	23,507	38,183	67,948
75%	62,225	70,083	85,503	64,905	40,630	18,078	12,753	10,515	11,293	12,683	22,060	41,873
50%	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490
25%	32,413	36,453	39,713	25,325	10,255	8,578	6,293	4,373	3,774	3,682	5,357	18,668
10%	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535
5%	11,349	19,679	23,267	13,509	4,653	3,783	4,260	2,729	2,267	1,845	2,727	7,655
2%	7,720	15,626	15,131	6,756	4,109	2,526	3,221	2,492	2,134	1,484	2,344	5,027
0%	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754

Monthly Flows (in CFS) for
03160202 - Sucarnoochee River Subbasin

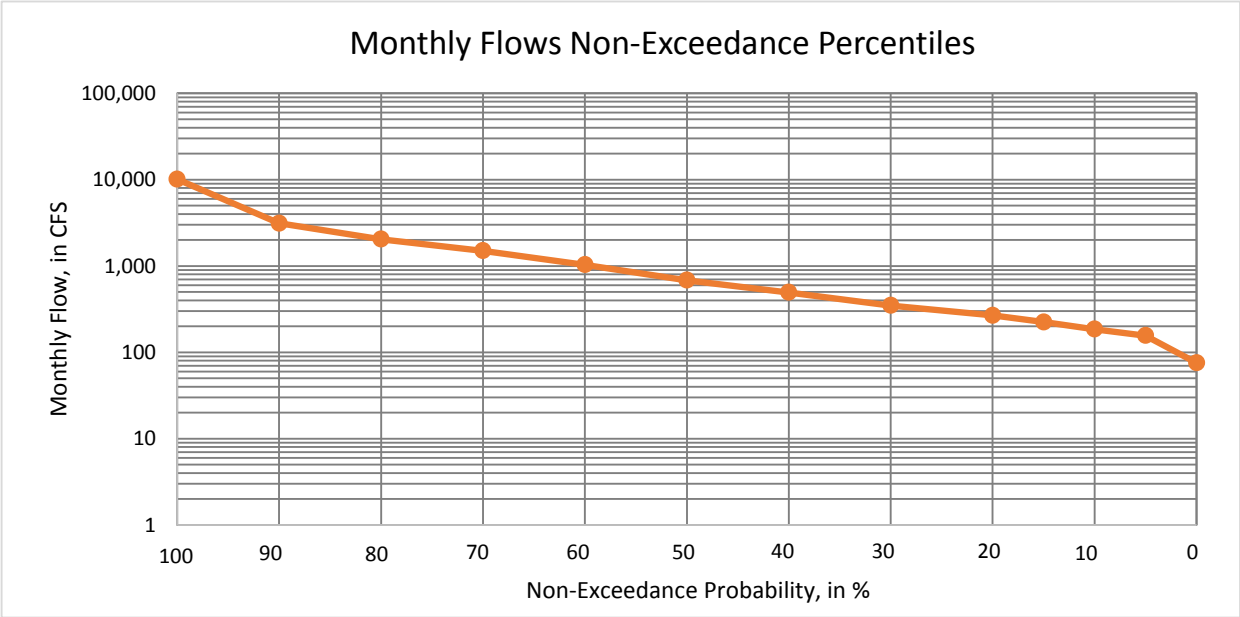
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,995	4,090	2,953	3,354	1,972	1,014	504	1,303	403	1,192	485	1,173	1,858
1976	1,557	872	6,356	2,720	939	468	347	244	293	191	278	1,859	1,352
1977	5,617	1,922	6,122	4,345	646	270	332	386	581	1,172	2,324	1,646	2,118
1978	2,407	1,391	1,688	885	2,451	651	304	209	174	152	193	472	916
1979	2,834	3,120	4,735	10,093	932	487	1,169	434	2,034	355	2,380	1,160	2,459
1980	2,961	1,987	6,896	6,527	3,120	794	575	308	228	554	896	590	2,121
1981	460	1,219	1,960	3,504	407	492	181	172	182	288	275	616	806
1982	1,847	2,850	1,781	1,724	453	226	341	513	162	192	403	3,841	1,187
1983	2,606	6,378	6,197	6,748	4,358	1,810	983	316	365	282	726	1,913	2,697
1984	1,626	1,537	2,192	2,463	1,131	267	427	358	186	405	558	1,126	1,020
1985	529	3,887	1,114	720	485	226	248	298	176	976	695	754	822
1986	500	659	1,021	289	740	315	167	142	262	213	1,370	1,482	596
1987	3,648	3,419	3,521	789	605	701	327	222	176	123	211	318	1,161
1988	539	938	651	1,455	241	115	292	134	357	662	1,460	868	638
1989	2,039	1,167	3,160	1,842	2,104	2,183	2,372	400	300	827	1,641	1,870	1,665
1990	5,986	8,648	3,237	1,367	627	412	391	249	156	169	273	459	1,789
1991	737	3,125	2,186	3,748	7,899	1,264	502	345	370	279	679	970	1,835
1992	1,264	2,320	815	1,305	330	633	246	703	236	183	1,426	1,620	912
1993	4,443	1,973	2,163	1,851	1,191	496	363	481	239	261	1,186	731	1,280
1994	2,361	3,672	3,131	1,830	415	488	1,358	338	288	536	349	1,449	1,339
1995	1,087	2,127	4,212	2,674	687	536	247	316	194	620	947	1,672	1,272
1996	2,535	2,688	3,050	1,508	460	525	268	363	303	269	370	638	1,073
1997	1,739	3,200	4,275	2,210	1,653	2,372	1,293	462	225	296	556	1,667	1,653
1998	6,955	2,433	2,578	2,035	439	320	616	331	183	165	246	534	1,402
1999	1,655	3,259	2,386	665	289	218	182	137	132	235	172	310	789
2000	404	295	576	1,534	180	150	96	87	76	84	210	468	345
2001	1,292	1,169	3,422	1,702	293	768	181	208	1,160	1,464	769	3,230	1,308
2002	2,444	1,870	1,601	750	259	205	225	141	891	1,165	954	2,715	1,100
2003	1,215	3,963	2,219	8,648	2,028	1,183	2,039	1,048	436	579	930	917	2,077
2004	1,496	5,370	1,603	611	700	945	1,534	306	378	689	2,575	1,950	1,486
2005	1,163	2,829	1,762	3,903	629	2,548	2,140	563	1,381	376	358	611	1,505
2006	1,293	2,407	2,295	679	1,027	218	173	162	119	410	429	492	800
2007	1,367	846	356	270	158	130	302	110	124	146	155	239	348
2008	318	1,984	1,207	855	885	239	151	678	296	214	173	1,485	700
2009	1,429	596	2,897	1,675	1,104	256	155	200	999	975	936	2,305	1,134
2010	2,203	2,797	3,464	747	725	330	213	185	112	131	228	299	944
2011	681	944	3,123	1,082	337	157	189	217	634	152	190	699	700
2012	1,574	1,870	2,399	368	370	217	627	592	384	271	202	1,944	900
2013	3,341	4,712	2,102	1,799	1,592	665	612	498	276	231	648	1,862	1,509
2014	1,042	2,677	1,818	6,169	1,038	415	305	195	165	174	321	1,359	1,290

Non-Exceedance Percentiles

03160202 - Sucarnoochee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	318	295	356	270	158	115	96	87	76	84	155	239	345
5th %	457	655	647	364	238	149	155	133	118	130	173	310	584
10th %	526	870	1,001	660	286	201	173	140	131	151	193	445	694
15th %	659	943	1,193	714	324	217	181	159	161	163	209	472	776
20th %	981	1,169	1,603	749	363	224	188	183	172	173	225	526	805
30th %	1,249	1,770	1,806	1,023	449	264	246	208	182	207	277	631	915
40th %	1,404	1,980	2,177	1,487	618	326	298	247	227	251	365	822	1,089
Median	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143	1,229
60th %	1,924	2,732	2,920	1,846	904	507	374	341	297	363	685	1,462	1,321
70th %	2,418	3,122	3,140	2,526	1,058	655	525	390	366	542	906	1,652	1,492
80th %	2,859	3,470	3,475	3,553	1,604	824	698	485	409	667	1,000	1,864	1,689
90th %	4,040	4,152	4,873	6,204	2,138	1,318	1,376	600	902	995	1,478	1,986	2,081
Maximum	6,955	8,648	6,896	10,093	7,899	2,548	2,372	1,303	2,034	1,464	2,575	3,841	2,697
Average	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258	1,273

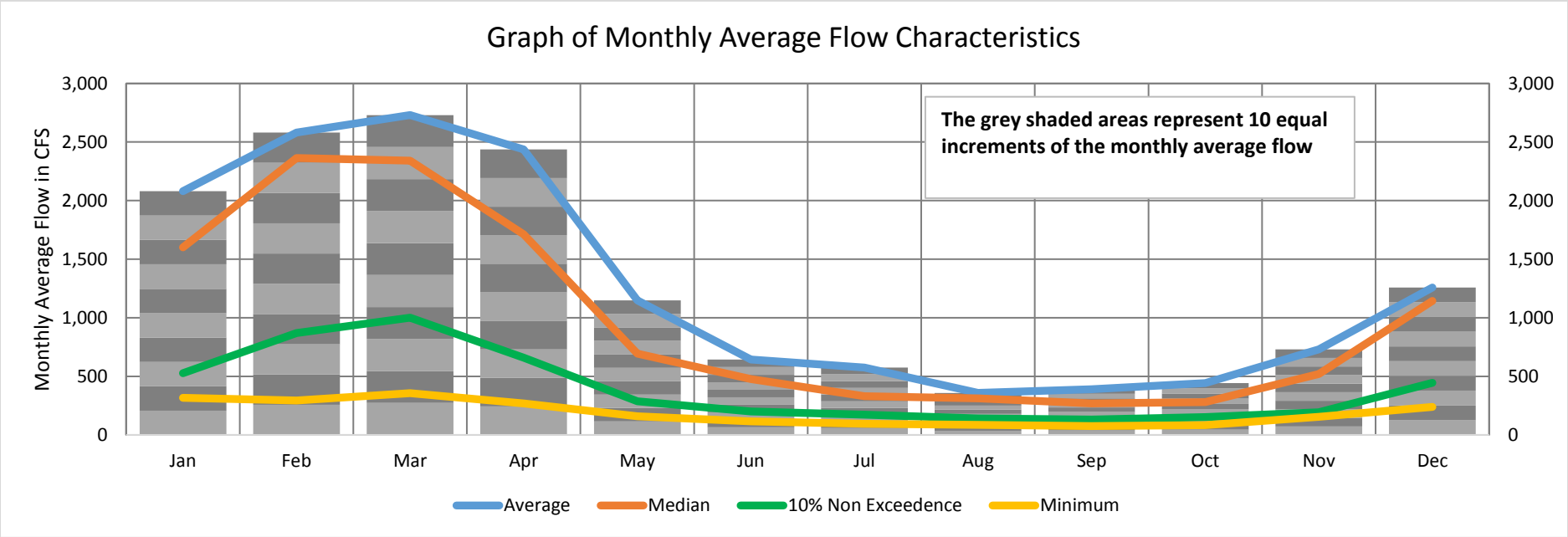
	Flows in CFS
Minimum	75.6
5th %	156
10th %	185
15th %	224
20th %	268
30th %	348
40th %	494
Median	684
60th %	1,031
70th %	1,500
80th %	2,036
90th %	3,120
Maximum	10,093
Average	1,281



Q10/Q50	0.27
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.08
Q5/DA	0.16
Q10/DA	0.19
Q15/DA	0.23
Q20/DA	0.28
Q30/DA	0.36
Q40/DA	0.52
Q50/DA	0.72
Q60/DA	1.08
Q70/DA	1.57
Q80/DA	2.13
Q90/DA	3.26
Qmax/DA	10.56

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

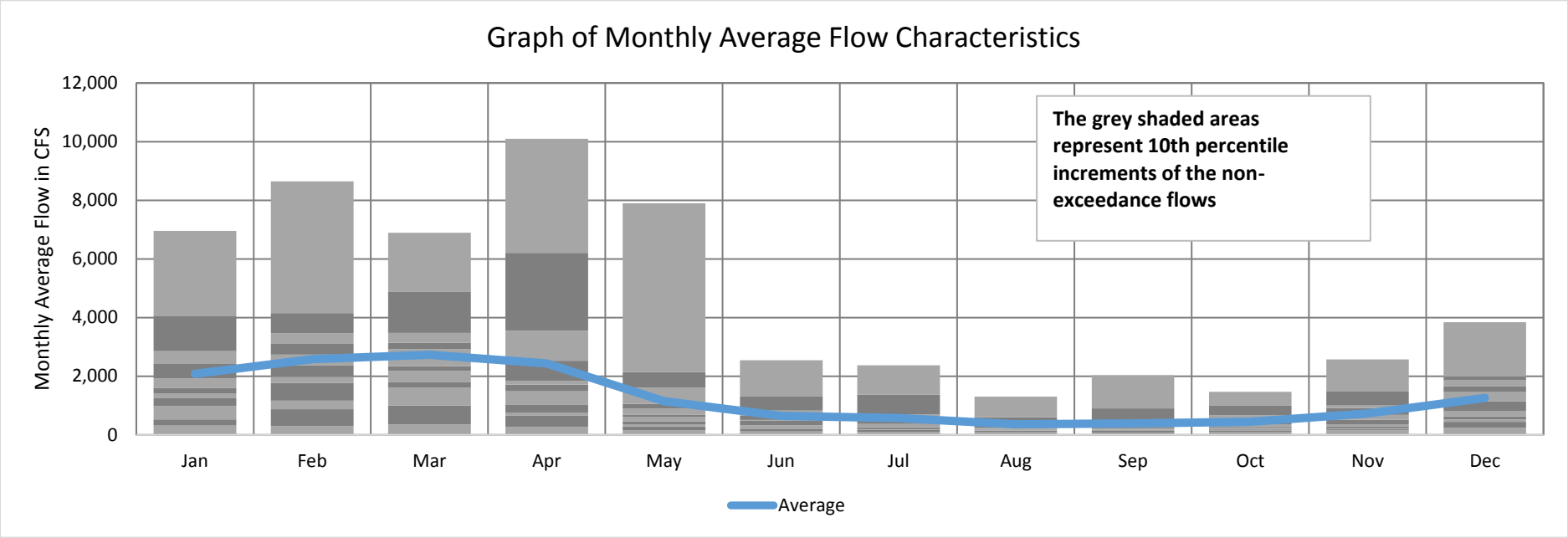
Site #: 03160202 Name: Sucarnoochee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258
100%	6,955	8,648	6,896	10,093	7,899	2,548	2,372	1,303	2,034	1,464	2,575	3,841
98%	6,199	6,877	6,475	8,966	5,137	2,411	2,191	1,104	1,525	1,252	2,423	3,365
95%	5,635	5,420	6,205	6,843	3,182	2,193	2,044	721	1,171	1,173	2,326	2,741
90%	4,040	4,152	4,873	6,204	2,138	1,318	1,376	600	902	995	1,478	1,986
75%	2,553	3,215	3,283	2,878	1,146	717	613	441	380	589	939	1,719
50%	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143
25%	1,144	1,348	1,744	838	413	236	222	199	176	189	266	605
10%	526	870	1,001	660	286	201	173	140	131	151	193	445
5%	457	655	647	364	238	149	155	133	118	130	173	310
2%	385	530	527	284	175	127	139	105	104	115	169	286
0%	318	295	356	270	158	115	96	87	76	84	155	239

Site #: 03160202 Name: Sucarnoochee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 956 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258
100%	6,955	8,648	6,896	10,093	7,899	2,548	2,372	1,303	2,034	1,464	2,575	3,841
98%	6,199	6,877	6,475	8,966	5,137	2,411	2,191	1,104	1,525	1,252	2,423	3,365
95%	5,635	5,420	6,205	6,843	3,182	2,193	2,044	721	1,171	1,173	2,326	2,741
90%	4,040	4,152	4,873	6,204	2,138	1,318	1,376	600	902	995	1,478	1,986
75%	2,553	3,215	3,283	2,878	1,146	717	613	441	380	589	939	1,719
50%	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143
25%	1,144	1,348	1,744	838	413	236	222	199	176	189	266	605
10%	526	870	1,001	660	286	201	173	140	131	151	193	445
5%	457	655	647	364	238	149	155	133	118	130	173	310
2%	385	530	527	284	175	127	139	105	104	115	169	286
0%	318	295	356	270	158	115	96	87	76	84	155	239

Monthly Flows (in CFS) for
03160203 - Lower Tombigbee River Subbasin

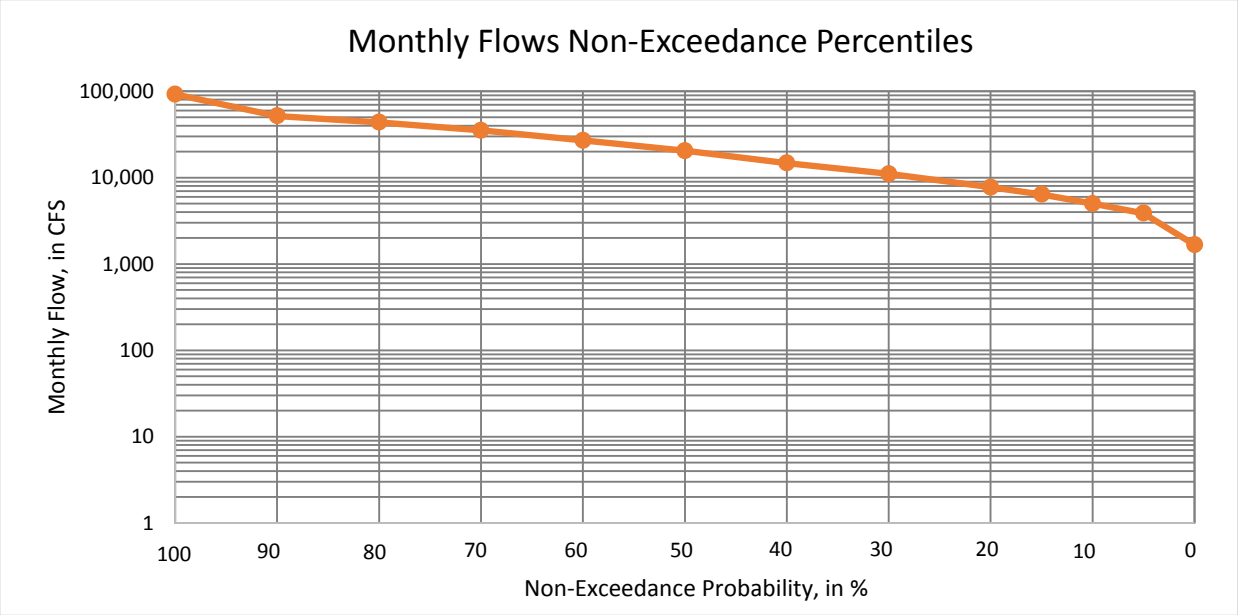
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	65,463	53,351	59,588	52,985	26,945	17,770	13,683	20,944	10,889	44,960	30,763	41,494	36,525
1976	43,896	31,495	41,522	37,525	30,866	13,785	14,818	10,301	16,333	18,861	16,819	35,996	26,027
1977	47,014	29,201	49,044	41,881	9,836	7,065	6,495	7,366	17,679	37,557	29,329	64,559	28,971
1978	45,387	21,312	23,848	12,368	29,161	19,539	16,017	14,800	14,361	11,294	9,615	20,941	19,940
1979	35,819	45,303	46,801	54,833	19,178	12,525	13,959	7,685	20,729	23,188	42,848	56,297	31,472
1980	44,832	37,933	73,084	90,911	54,572	15,556	8,866	5,804	5,522	11,868	16,723	18,266	31,944
1981	9,097	28,035	28,749	44,098	8,974	11,971	5,290	4,725	5,041	3,421	2,362	10,715	13,395
1982	45,967	41,058	31,595	49,921	21,716	13,980	11,925	13,734	4,799	4,589	8,898	61,744	25,772
1983	50,736	79,295	74,348	77,429	65,273	41,919	14,167	5,515	6,227	4,441	17,202	65,236	41,575
1984	45,836	32,890	39,910	45,996	53,934	9,146	7,743	8,786	3,448	14,471	15,030	25,185	25,209
1985	17,246	58,688	25,733	21,225	29,696	10,335	12,344	14,276	6,534	15,433	15,281	20,457	20,370
1986	13,169	20,444	22,570	6,894	10,500	17,314	5,172	3,970	4,447	6,928	30,912	40,156	15,167
1987	51,080	41,706	60,412	18,341	11,462	13,460	9,365	4,913	4,218	1,666	4,135	9,137	19,072
1988	22,058	27,197	17,179	26,752	5,344	3,060	6,537	3,733	11,074	13,197	23,890	21,008	14,974
1989	62,849	45,072	59,225	41,541	27,136	39,840	45,816	9,925	8,993	17,502	27,078	28,077	34,389
1990	65,762	86,887	57,046	25,793	23,450	16,349	7,732	4,604	3,491	2,723	4,516	39,912	27,878
1991	45,028	55,646	64,885	72,317	92,128	47,851	11,009	7,292	7,613	4,548	10,178	37,426	37,887
1992	25,265	33,000	28,729	20,062	5,551	12,354	9,082	13,939	14,161	5,522	29,915	33,471	19,143
1993	58,558	37,410	34,331	36,222	30,420	9,502	7,791	9,799	6,314	4,305	11,479	17,083	21,874
1994	35,612	66,500	46,368	54,115	11,726	17,221	26,268	10,738	8,137	13,822	14,429	34,736	28,045
1995	34,460	41,843	65,908	46,957	23,846	10,901	7,354	9,617	3,894	14,620	25,770	35,242	26,629
1996	42,365	47,788	43,419	37,342	13,307	11,038	12,749	12,238	11,573	8,237	18,843	35,246	24,374
1997	43,650	44,957	41,324	25,219	36,259	54,515	33,552	13,863	7,291	12,306	15,701	27,089	29,561
1998	57,878	42,507	42,949	32,529	16,453	10,067	14,646	12,190	7,289	5,852	6,389	23,639	22,631
1999	51,423	56,356	46,247	27,289	17,673	14,965	15,677	2,822	2,712	3,965	3,468	6,392	20,551
2000	15,935	12,391	33,058	58,498	8,434	6,427	3,741	3,267	2,569	1,777	11,341	16,672	14,470
2001	35,908	51,063	57,229	43,782	10,666	25,560	8,790	9,086	25,602	25,681	12,722	57,997	30,208
2002	45,363	47,579	39,029	31,972	32,402	7,483	11,444	5,873	15,319	27,969	37,631	44,491	28,789
2003	29,222	54,508	57,611	42,409	48,820	31,829	26,198	23,768	16,262	10,148	19,427	24,740	31,944
2004	32,203	65,728	46,000	19,229	13,999	28,311	29,452	11,463	14,380	16,869	37,991	55,241	30,684
2005	32,150	41,734	33,882	45,476	15,339	39,823	31,477	13,596	24,566	7,254	6,505	23,168	26,089
2006	35,374	60,287	51,481	24,398	26,012	5,486	3,863	3,810	4,372	10,706	22,506	15,500	21,754
2007	49,905	25,529	15,616	9,279	3,270	3,109	5,530	2,590	2,645	5,183	4,817	6,777	11,138
2008	11,425	54,629	35,143	26,382	28,613	10,316	4,392	10,306	10,252	4,497	4,407	44,089	20,172
2009	54,583	19,549	61,672	46,012	48,082	20,787	7,424	10,710	29,226	48,096	34,151	39,319	35,121
2010	39,853	43,230	39,892	26,772	40,833	15,694	7,752	5,002	2,393	3,463	5,056	10,411	19,921
2011	25,683	22,554	47,464	51,366	25,167	6,028	6,827	5,117	21,899	3,262	6,314	30,215	20,974
2012	42,472	47,290	48,933	19,111	9,509	5,289	7,838	9,901	15,087	12,338	5,768	30,294	21,045
2013	65,702	58,246	47,660	46,498	39,456	16,832	23,315	6,483	4,694	3,719	36,062	26,760	31,122
2014	46,827	48,087	36,010	51,527	32,499	22,886	10,169	4,514	4,076	11,897	10,507	25,019	25,182

Non-Exceedance Percentiles

03160203 - Lower Tombigbee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392	11,138
5th %	13,082	20,399	22,301	12,213	5,540	5,180	4,365	3,245	2,641	2,675	4,101	9,019	14,416
10th %	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685	15,147
15th %	24,784	26,946	28,746	19,937	9,787	6,969	6,350	4,432	3,834	3,680	5,020	16,496	19,132
20th %	28,514	28,968	32,765	23,763	10,633	8,814	6,769	4,701	4,190	4,237	6,205	18,029	19,936
30th %	35,099	36,087	35,750	26,641	13,791	10,329	7,740	5,395	4,767	4,577	9,400	22,520	20,847
40th %	38,275	41,723	40,758	32,306	18,576	12,201	8,409	6,969	6,279	6,497	11,424	25,118	22,328
Median	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146	25,491
60th %	45,373	47,405	47,066	43,908	27,727	15,956	12,093	9,910	10,507	12,061	16,972	34,939	27,129
70th %	46,883	51,749	49,775	46,158	30,554	17,451	14,021	10,718	14,221	14,017	22,921	37,994	29,148
80th %	51,149	55,788	57,934	51,398	36,898	23,420	15,745	12,510	15,507	16,996	29,447	42,013	31,192
90th %	58,987	60,831	61,994	55,200	49,331	39,825	26,586	13,972	20,846	25,910	34,342	56,467	34,462
Maximum	65,762	86,887	74,348	90,911	92,128	54,515	45,816	23,768	29,226	48,096	42,848	65,236	41,575
Average	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505	25,300

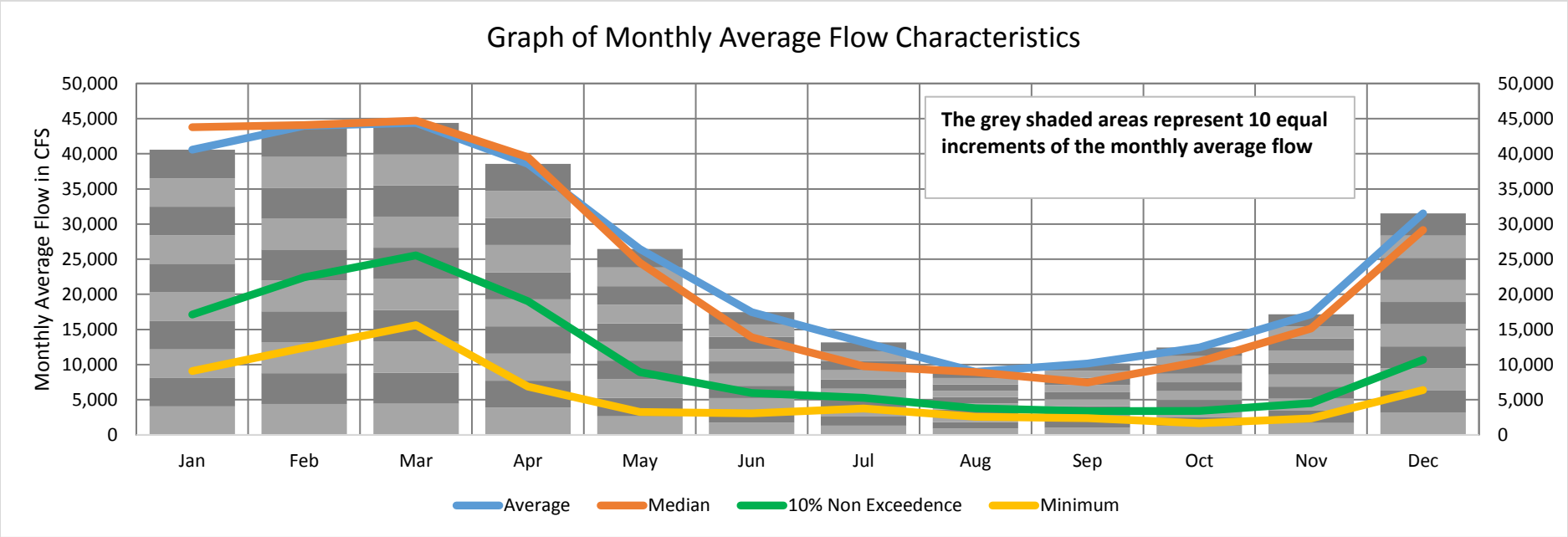
	Flows in CFS
Minimum	1,666.1
5th %	3,861
10th %	4,993
15th %	6,392
20th %	7,750
30th %	11,063
40th %	14,739
Median	20,450
60th %	26,998
70th %	35,243
80th %	43,676
90th %	51,673
Maximum	92,128
Average	25,402



Q10/Q50	0.24
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.08
Q5/DA	0.19
Q10/DA	0.25
Q15/DA	0.32
Q20/DA	0.39
Q30/DA	0.55
Q40/DA	0.73
Q50/DA	1.02
Q60/DA	1.35
Q70/DA	1.76
Q80/DA	2.18
Q90/DA	2.58
Qmax/DA	4.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

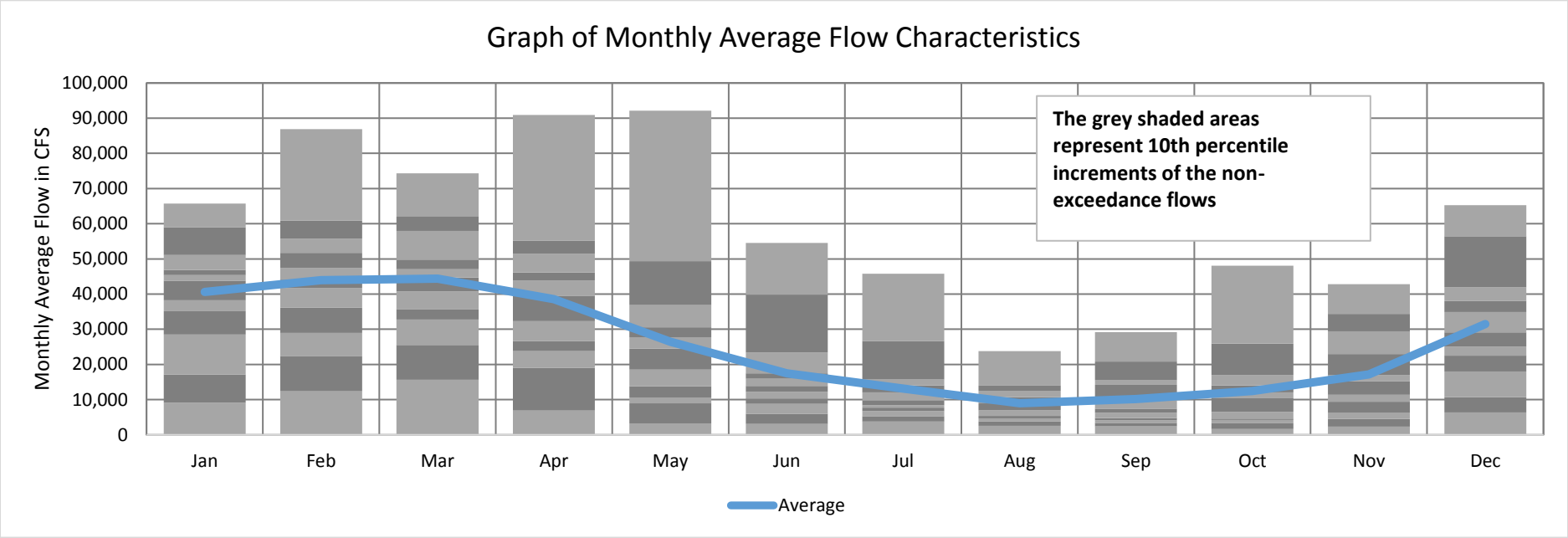
Site #: 03160203 Name: Lower Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505
100%	65,762	86,887	74,348	90,911	92,128	54,515	45,816	23,768	29,226	48,096	42,848	65,236
98%	65,715	80,965	73,363	80,395	71,181	49,317	36,250	21,565	26,400	45,650	39,060	64,708
95%	65,475	67,139	66,267	72,573	55,107	42,216	31,581	15,108	24,618	37,927	37,649	61,885
90%	58,987	60,831	61,994	55,200	49,331	39,825	26,586	13,972	20,846	25,910	34,342	56,467
75%	50,113	54,538	57,092	47,698	32,426	19,851	14,689	11,645	14,557	14,823	26,097	39,973
50%	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146
25%	32,190	32,541	34,219	25,650	11,660	9,926	7,407	4,979	4,428	4,483	6,476	20,820
10%	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685
5%	13,082	20,399	22,301	12,213	5,540	5,180	4,365	3,245	2,641	2,675	4,101	9,019
2%	10,913	17,974	16,835	8,754	4,887	3,098	3,836	2,771	2,530	1,752	3,225	6,693
0%	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392

Site #: 03160203 Name: Lower Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 20,057 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505
100%	65,762	86,887	74,348	90,911	92,128	54,515	45,816	23,768	29,226	48,096	42,848	65,236
98%	65,715	80,965	73,363	80,395	71,181	49,317	36,250	21,565	26,400	45,650	39,060	64,708
95%	65,475	67,139	66,267	72,573	55,107	42,216	31,581	15,108	24,618	37,927	37,649	61,885
90%	58,987	60,831	61,994	55,200	49,331	39,825	26,586	13,972	20,846	25,910	34,342	56,467
75%	50,113	54,538	57,092	47,698	32,426	19,851	14,689	11,645	14,557	14,823	26,097	39,973
50%	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146
25%	32,190	32,541	34,219	25,650	11,660	9,926	7,407	4,979	4,428	4,483	6,476	20,820
10%	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685
5%	13,082	20,399	22,301	12,213	5,540	5,180	4,365	3,245	2,641	2,675	4,101	9,019
2%	10,913	17,974	16,835	8,754	4,887	3,098	3,836	2,771	2,530	1,752	3,225	6,693
0%	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392

Monthly Flows (in CFS) for
03160204 - Mobile-Tensaw Subbasin

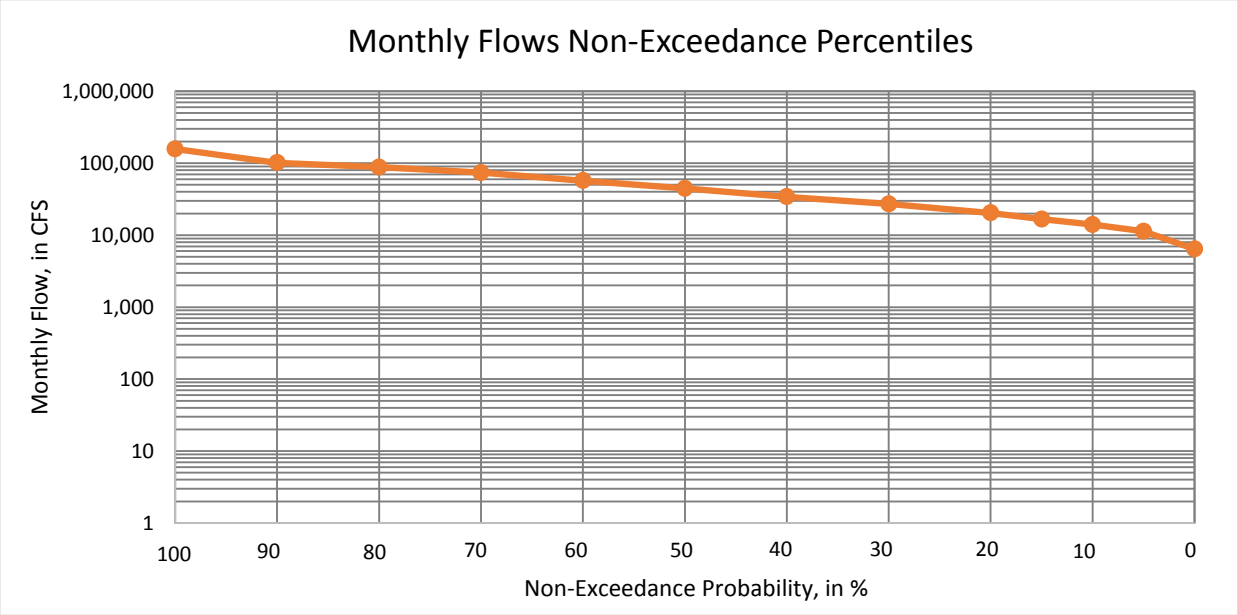
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	118,803	124,564	121,968	112,243	58,790	44,358	44,894	60,420	43,124	110,053	90,507	97,217	85,401
1976	107,574	70,370	87,090	86,849	68,565	38,190	61,946	33,838	42,406	57,849	54,666	94,366	67,073
1977	97,357	69,398	90,936	89,137	27,315	24,458	14,534	20,653	40,944	70,280	66,641	105,916	59,768
1978	111,004	56,913	51,625	34,014	62,688	40,464	41,589	51,219	52,580	52,686	39,513	54,958	54,218
1979	64,846	90,128	101,058	109,556	49,838	35,579	28,256	20,643	32,851	80,429	81,223	93,111	65,434
1980	87,966	81,638	139,767	157,665	101,254	37,150	22,724	15,861	14,007	26,746	32,571	33,554	62,443
1981	20,473	75,390	56,508	82,860	20,850	29,773	15,456	13,106	15,536	11,238	11,594	32,612	31,730
1982	94,326	107,280	74,948	91,173	55,740	32,216	28,986	29,415	13,161	17,987	28,148	115,443	57,170
1983	91,584	131,099	125,681	140,715	103,524	66,549	32,119	17,106	21,806	16,392	50,123	125,674	76,496
1984	103,086	74,119	88,539	89,627	96,409	26,608	26,015	52,848	17,621	27,990	32,868	55,436	57,636
1985	37,440	105,827	54,538	37,313	47,679	20,476	32,341	34,563	17,573	29,684	31,810	44,030	40,731
1986	28,996	47,623	61,074	17,781	20,206	26,279	12,974	11,730	11,005	13,402	58,445	76,118	32,050
1987	93,227	91,999	111,080	46,923	28,071	31,120	25,021	14,469	12,794	9,651	12,053	22,312	41,319
1988	57,044	58,668	35,921	43,760	15,326	11,419	15,621	10,793	34,872	27,269	51,235	39,565	33,230
1989	100,783	70,045	110,508	89,077	47,631	89,977	92,823	26,944	26,465	52,457	60,314	76,387	70,328
1990	122,749	154,844	141,875	63,496	50,012	29,892	21,085	15,393	12,153	13,865	17,488	59,256	58,021
1991	70,242	94,560	102,490	105,337	137,332	74,045	34,687	22,423	22,449	16,105	31,643	63,215	64,365
1992	73,061	83,663	76,799	46,367	18,490	33,573	23,284	33,250	35,049	19,889	84,178	96,071	51,736
1993	119,182	83,735	86,488	76,166	52,802	23,049	20,395	22,069	16,190	12,803	29,425	39,281	48,310
1994	64,360	108,349	94,709	103,715	30,257	32,887	67,876	32,511	27,027	40,490	34,149	76,686	59,125
1995	66,734	93,559	118,148	67,876	38,253	22,143	17,653	19,554	11,319	61,598	73,646	79,135	55,623
1996	87,987	110,210	107,543	74,534	36,170	29,544	27,064	28,132	29,565	23,613	38,889	69,558	54,915
1997	92,899	95,998	102,379	57,983	71,784	92,254	54,689	30,198	18,410	33,450	46,678	70,319	63,767
1998	116,180	113,816	113,590	81,399	42,011	27,098	25,902	24,403	21,203	23,241	18,759	41,223	53,764
1999	80,210	98,923	78,983	44,710	34,881	36,739	48,204	13,111	10,441	13,820	12,944	19,518	40,727
2000	35,403	27,676	61,473	92,295	18,776	13,998	10,740	10,332	9,588	8,238	23,418	32,773	28,667
2001	61,130	80,692	133,800	88,776	26,065	52,164	25,504	23,950	42,440	34,542	23,367	78,047	55,715
2002	76,757	75,589	67,307	54,666	49,957	16,561	20,165	14,100	28,625	45,052	75,244	95,511	51,517
2003	59,263	97,478	107,070	84,685	117,377	79,158	80,932	55,629	31,917	21,975	39,909	48,453	68,524
2004	57,968	109,256	64,711	32,273	30,030	42,174	43,183	21,346	49,831	34,083	81,570	103,282	55,417
2005	57,634	84,233	81,728	104,177	40,971	68,221	81,018	40,507	37,504	16,397	16,683	45,900	56,013
2006	65,520	101,400	93,280	43,270	47,070	12,661	10,070	9,894	9,648	17,432	45,670	33,220	40,405
2007	86,650	46,140	32,460	19,839	9,137	8,398	9,847	6,749	6,408	11,840	9,782	10,706	21,408
2008	21,415	93,640	65,100	50,030	43,760	18,121	8,560	26,720	18,232	10,842	12,042	73,800	36,523
2009	91,140	34,300	110,850	90,330	93,430	39,790	16,057	21,883	56,100	93,660	89,240	92,640	69,407
2010	89,110	94,540	88,810	50,570	70,750	33,070	16,373	12,843	8,361	9,849	15,340	24,690	42,610
2011	40,540	47,060	89,270	87,000	38,380	13,360	15,831	11,386	30,350	10,007	19,260	57,569	38,272
2012	76,339	82,190	83,090	34,100	19,945	14,406	14,305	20,452	30,807	21,346	14,634	54,749	38,676
2013	101,530	120,828	88,248	86,350	84,910	39,662	61,277	34,915	19,438	15,268	50,075	75,257	64,527
2014	85,854	92,271	76,390	98,410	68,452	46,217	23,579	12,055	11,644	23,305	25,685	45,211	50,473

Non-Exceedance Percentiles

03160204 - Mobile-Tensaw Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706	21,408
5th %	28,617	45,548	50,840	31,652	18,332	12,599	10,059	10,310	9,526	9,839	12,020	22,172	31,577
10th %	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819	33,112
15th %	54,568	58,405	61,413	42,376	20,753	16,238	14,500	12,007	11,272	11,750	15,234	33,153	38,010
20th %	57,901	69,915	65,022	44,520	27,065	20,005	15,588	13,053	12,051	13,282	17,327	38,135	40,059
30th %	64,700	75,529	76,676	50,408	33,494	25,733	17,269	15,116	15,078	15,854	23,402	44,857	42,222
40th %	71,933	83,074	85,129	66,124	39,934	29,681	22,069	20,093	17,988	17,765	30,756	54,874	51,649
Median	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236	55,166
60th %	88,436	94,000	93,852	86,909	49,979	36,043	27,541	24,131	27,667	26,955	42,214	74,383	56,476
70th %	92,997	97,912	103,864	89,284	59,959	39,700	33,045	28,517	31,140	33,640	50,456	77,094	59,318
80th %	100,932	107,494	110,896	93,518	70,957	44,730	45,556	33,367	35,540	46,533	61,580	93,362	64,398
90th %	111,521	114,518	122,339	105,759	96,894	68,804	62,539	41,579	42,509	62,467	81,258	97,823	68,612
Maximum	122,749	154,844	141,875	157,665	137,332	92,254	92,823	60,420	56,100	110,053	90,507	125,674	85,401
Average	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819	52,588

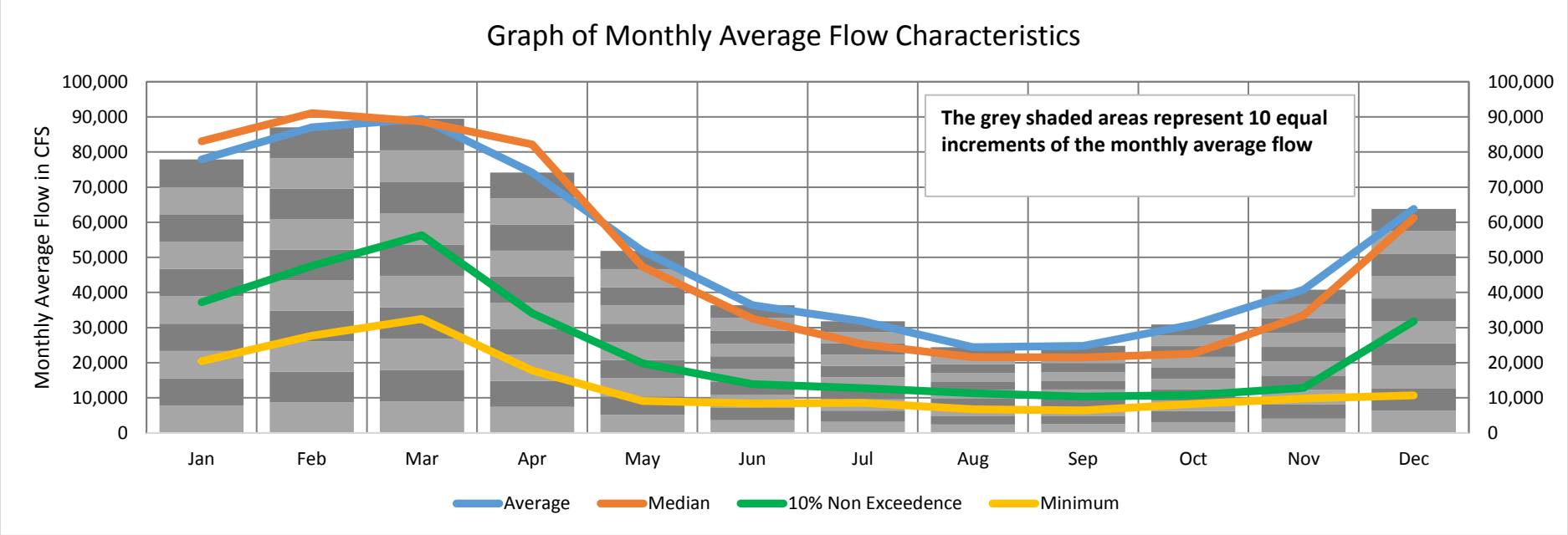
	Flows in CFS
Minimum	6,408.0
5th %	11,315
10th %	13,984
15th %	16,665
20th %	20,357
30th %	27,217
40th %	34,093
Median	44,534
60th %	57,254
70th %	74,067
80th %	88,306
90th %	101,269
Maximum	157,665
Average	52,774



Q10/Q50	0.31
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.15
Q5/DA	0.26
Q10/DA	0.33
Q15/DA	0.39
Q20/DA	0.47
Q30/DA	0.63
Q40/DA	0.79
Q50/DA	1.04
Q60/DA	1.33
Q70/DA	1.72
Q80/DA	2.05
Q90/DA	2.36
Qmax/DA	3.67

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

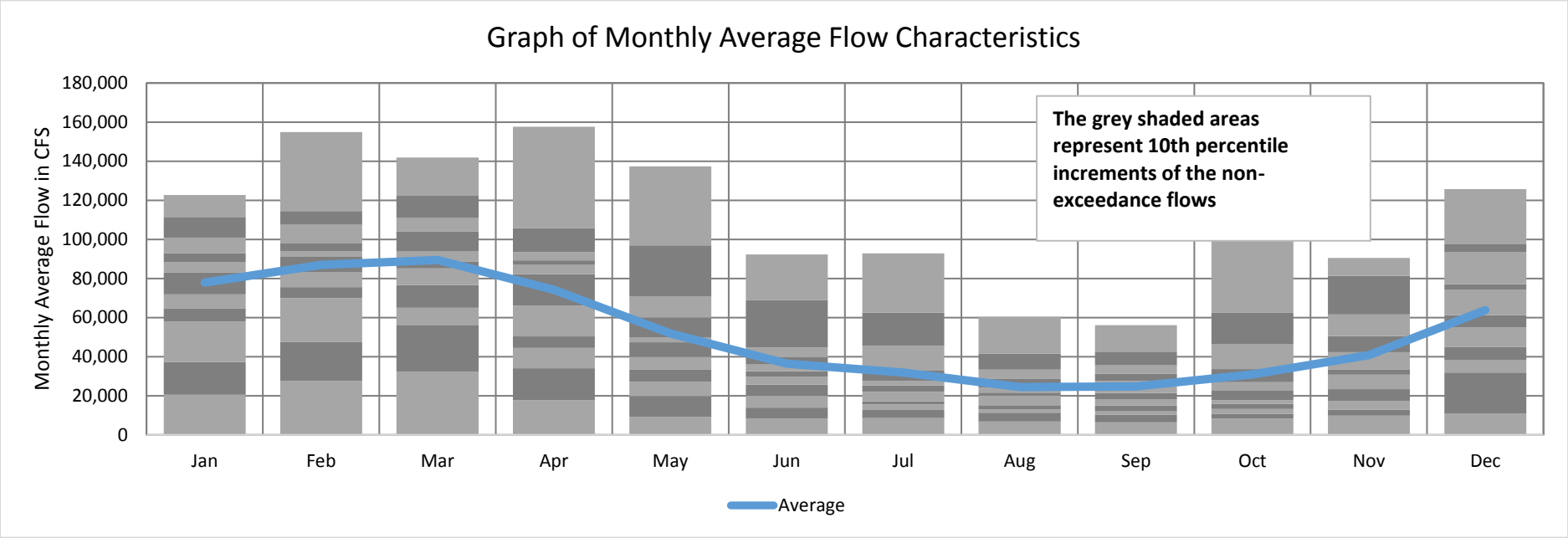
Site #: 03160204 Name: Mobile-Tensaw Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819
100%	122,749	154,844	141,875	157,665	137,332	92,254	92,823	60,420	56,100	110,053	90,507	125,674
98%	119,967	136,323	140,231	144,444	121,767	90,478	83,615	56,683	53,354	97,266	89,519	117,694
95%	118,822	124,891	134,099	113,666	104,216	79,699	80,936	52,987	49,968	81,090	84,431	106,393
90%	111,521	114,518	122,339	105,759	96,894	68,804	62,539	41,579	42,509	62,467	81,258	97,823
75%	95,084	102,507	108,284	90,541	68,480	40,891	41,988	30,776	33,356	36,029	55,611	82,511
50%	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236
25%	60,663	73,182	73,037	46,784	29,540	22,823	16,001	13,853	13,070	13,854	19,135	40,808
10%	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819
5%	28,617	45,548	50,840	31,652	18,332	12,599	10,059	10,310	9,526	9,839	12,020	22,172
2%	21,208	32,843	35,160	19,386	13,964	10,754	9,564	9,202	7,931	9,340	11,196	17,580
0%	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706

Site #: 03160204 Name: Mobile-Tensaw Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 43,000 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819
100%	122,749	154,844	141,875	157,665	137,332	92,254	92,823	60,420	56,100	110,053	90,507	125,674
98%	119,967	136,323	140,231	144,444	121,767	90,478	83,615	56,683	53,354	97,266	89,519	117,694
95%	118,822	124,891	134,099	113,666	104,216	79,699	80,936	52,987	49,968	81,090	84,431	106,393
90%	111,521	114,518	122,339	105,759	96,894	68,804	62,539	41,579	42,509	62,467	81,258	97,823
75%	95,084	102,507	108,284	90,541	68,480	40,891	41,988	30,776	33,356	36,029	55,611	82,511
50%	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236
25%	60,663	73,182	73,037	46,784	29,540	22,823	16,001	13,853	13,070	13,854	19,135	40,808
10%	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819
5%	28,617	45,548	50,840	31,652	18,332	12,599	10,059	10,310	9,526	9,839	12,020	22,172
2%	21,208	32,843	35,160	19,386	13,964	10,754	9,564	9,202	7,931	9,340	11,196	17,580
0%	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706

Monthly Flows (in CFS) for

03170008 - Escatawpa River Subbasin in Alabama

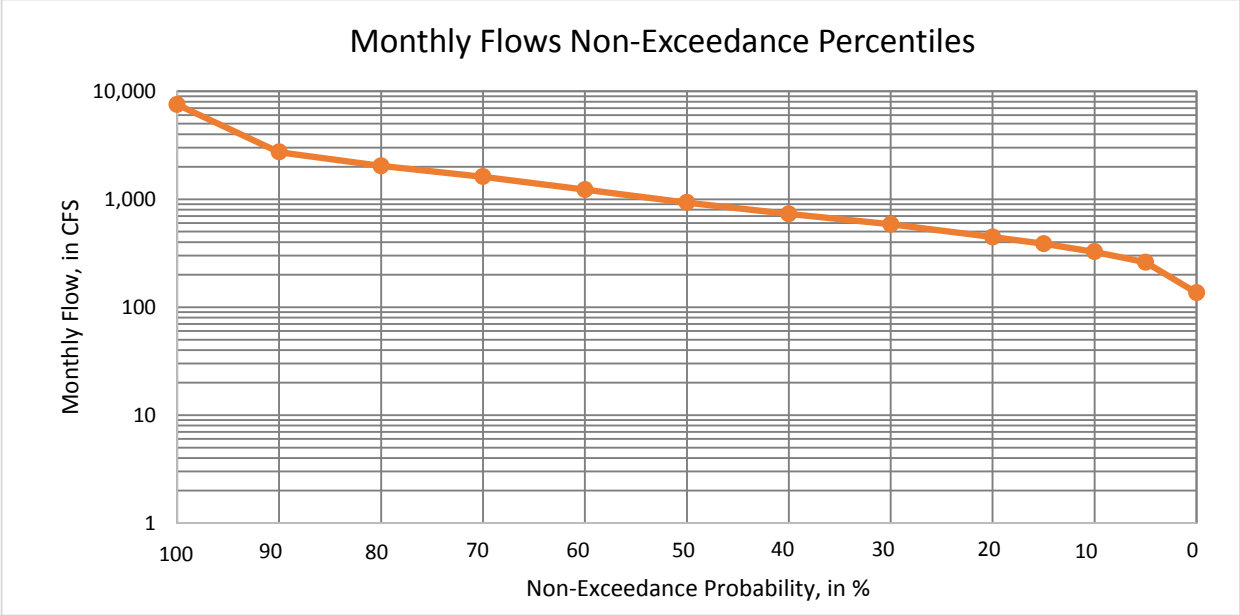
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,349	2,521	2,561	3,297	3,065	1,515	1,050	3,152	1,739	2,579	1,581	1,317	2,227
1976	1,297	1,422	1,174	1,212	1,245	935	561	348	371	344	923	1,787	966
1977	1,972	1,243	3,169	1,817	1,058	374	413	809	1,649	549	1,883	1,422	1,363
1978	2,933	1,740	1,650	1,288	2,594	2,778	666	727	391	271	302	645	1,330
1979	2,138	3,710	4,815	3,293	753	843	1,692	771	2,406	552	2,844	1,853	2,124
1980	1,947	1,281	3,891	6,555	4,811	1,110	718	536	456	1,022	740	694	1,983
1981	497	3,755	1,189	973	1,009	637	391	314	352	214	251	503	820
1982	1,273	3,351	920	952	626	524	926	1,126	448	332	664	2,824	1,151
1983	1,653	4,139	3,199	6,605	1,331	1,283	819	748	723	422	895	2,722	2,024
1984	2,433	2,146	2,491	1,403	1,736	536	516	1,022	376	475	493	962	1,214
1985	1,178	2,033	1,565	687	552	367	1,169	826	2,293	2,133	2,444	2,032	1,435
1986	1,812	2,063	2,117	906	621	693	355	383	386	341	1,180	2,001	1,066
1987	2,668	2,357	2,830	971	899	801	479	739	313	221	395	561	1,098
1988	1,050	1,889	2,039	1,397	316	262	521	551	2,530	1,044	1,031	811	1,112
1989	966	547	1,535	1,506	1,492	1,771	1,813	486	310	370	1,621	1,861	1,194
1990	3,738	4,652	4,010	1,566	2,509	1,101	446	418	294	247	394	538	1,644
1991	2,761	2,583	2,678	1,898	7,525	1,376	1,069	599	587	318	666	803	1,908
1992	3,052	3,497	1,564	983	373	430	429	458	392	243	2,854	2,410	1,376
1993	3,700	1,686	2,466	1,996	2,395	1,301	1,007	674	573	446	888	1,143	1,525
1994	1,393	1,688	1,551	1,679	718	768	1,945	445	335	428	424	1,171	1,043
1995	1,778	2,638	2,471	2,032	1,525	780	558	869	307	712	969	2,479	1,421
1996	2,395	2,126	2,562	2,632	750	600	533	704	421	309	372	831	1,180
1997	1,791	2,149	1,859	1,433	1,165	1,922	1,935	793	338	579	1,148	1,830	1,408
1998	4,974	2,433	3,286	1,241	587	464	633	702	3,011	3,851	867	650	1,893
1999	1,341	1,945	2,365	627	354	898	886	278	305	697	261	506	867
2000	502	408	964	644	192	180	152	195	194	136	659	574	400
2001	914	757	3,990	561	219	1,146	415	626	592	379	304	592	878
2002	728	731	1,709	672	217	229	387	303	1,713	2,255	2,189	2,530	1,141
2003	1,674	1,612	2,810	1,401	1,681	2,989	3,751	1,607	1,280	551	644	1,000	1,753
2004	1,123	2,583	1,108	735	1,417	1,603	1,479	692	968	541	1,451	1,490	1,256
2005	929	1,773	1,104	3,452	1,014	1,463	3,485	1,566	1,509	562	499	791	1,508
2006	853	1,255	923	411	456	225	248	340	253	534	1,440	1,802	726
2007	2,632	1,145	606	710	242	511	778	260	270	682	512	839	765
2008	1,549	1,974	1,195	1,336	456	259	302	710	1,617	321	279	772	889
2009	915	613	3,670	3,222	2,749	555	263	417	930	768	1,114	5,396	1,730
2010	2,722	3,761	1,707	621	1,740	599	520	502	258	238	438	392	1,110
2011	596	971	1,665	657	187	199	722	344	827	250	262	349	584
2012	661	2,313	2,569	871	783	986	922	2,428	3,030	749	367	922	1,376
2013	1,394	3,112	1,191	1,735	2,217	482	681	1,044	575	352	427	1,490	1,214
2014	1,116	2,496	2,017	2,852	3,632	1,460	816	494	417	326	302	706	1,379

Non-Exceedance Percentiles

03170008 - Escatawpa River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	497	408	606	411	187	180	152	195	194	136	251	349	400
5th %	592	610	922	618	216	223	262	277	258	220	262	498	718
10th %	721	754	1,090	642	240	256	350	313	292	242	299	535	814
15th %	905	1,119	1,164	670	348	351	390	343	307	250	304	572	876
20th %	927	1,252	1,191	706	439	419	415	376	312	302	371	634	950
30th %	1,121	1,664	1,560	938	611	520	505	454	365	330	426	752	1,107
40th %	1,324	1,843	1,690	1,120	752	600	548	522	391	363	507	823	1,169
Median	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981	1,235
60th %	1,799	2,214	2,468	1,462	1,279	913	793	706	589	545	891	1,359	1,376
70th %	2,201	2,503	2,564	1,760	1,572	1,121	923	755	942	567	1,056	1,792	1,425
80th %	2,639	2,733	2,898	2,152	2,252	1,393	1,089	835	1,624	719	1,443	1,889	1,661
90th %	2,945	3,715	3,692	3,293	2,781	1,620	1,825	1,170	2,304	1,153	1,913	2,484	1,916
Maximum	4,974	4,652	4,815	6,605	7,525	2,989	3,751	3,152	3,030	3,851	2,854	5,396	2,227
Average	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350	1,302

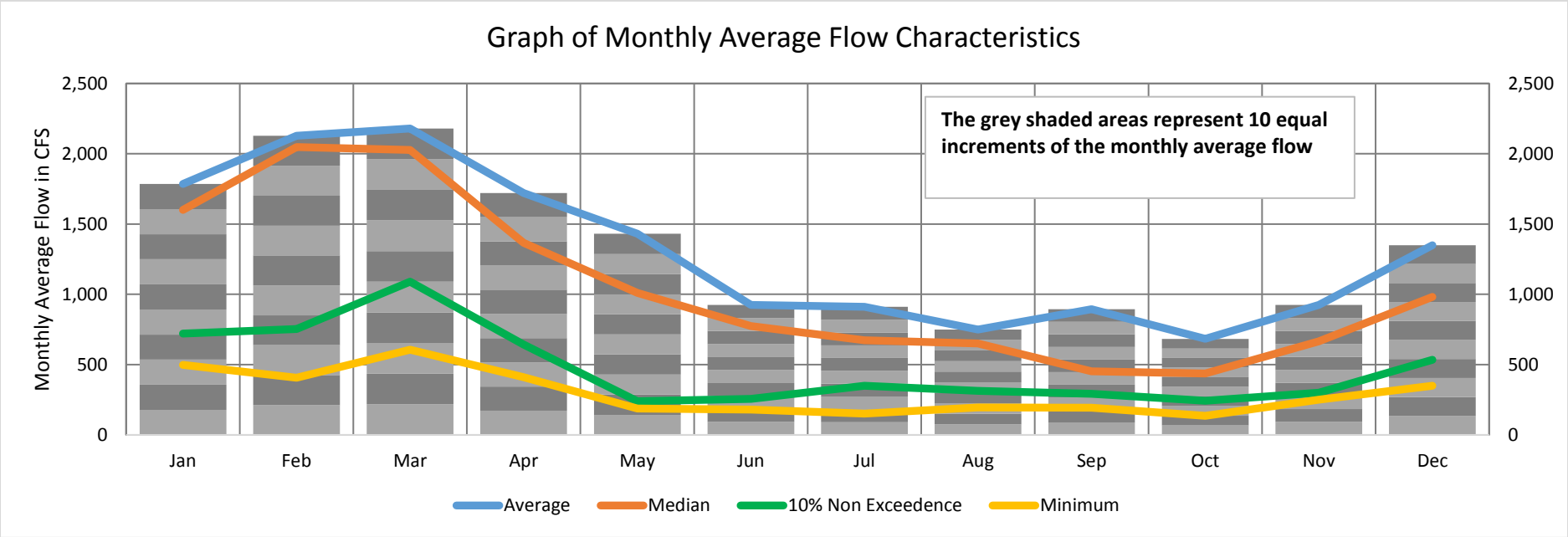
	Flows in CFS
Minimum	136.0
5th %	260
10th %	326
15th %	386
20th %	446
30th %	585
40th %	729
Median	930
60th %	1,224
70th %	1,613
80th %	2,033
90th %	2,725
Maximum	7,525
Average	1,307



Q10/Q50	0.35
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.18
Q5/DA	0.34
Q10/DA	0.42
Q15/DA	0.50
Q20/DA	0.58
Q30/DA	0.76
Q40/DA	0.95
Q50/DA	1.21
Q60/DA	1.60
Q70/DA	2.10
Q80/DA	2.65
Q90/DA	3.55
Qmax/DA	9.81

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

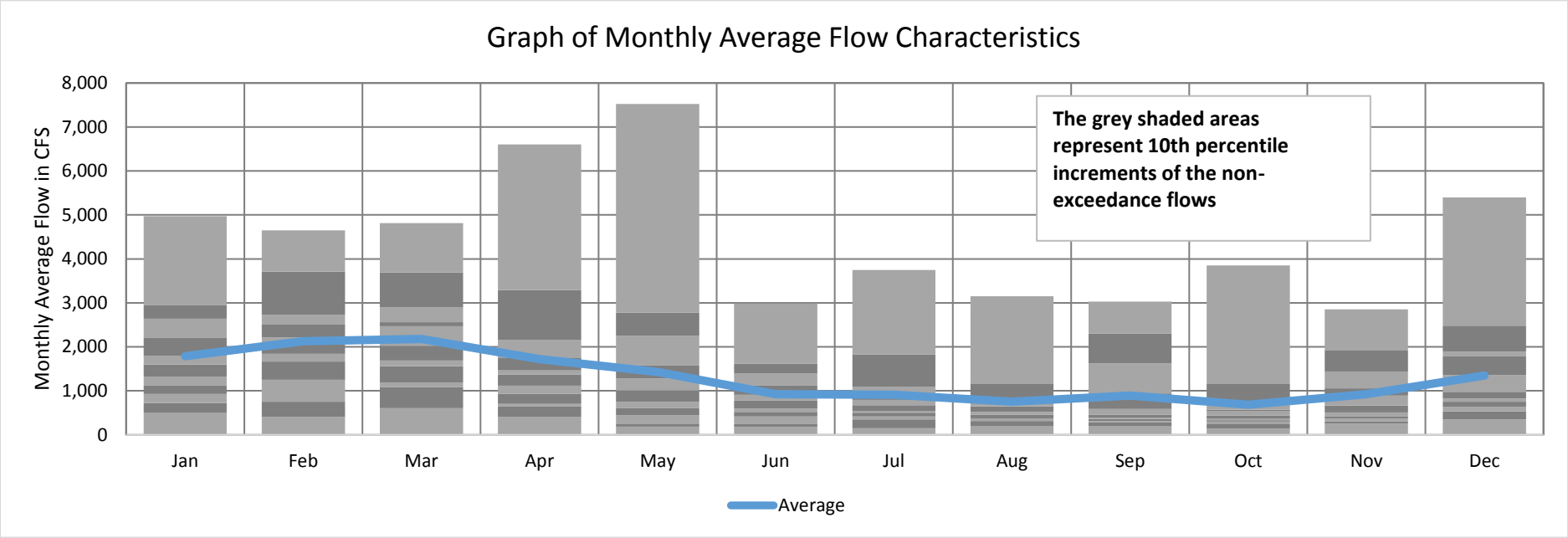
Site #: 03170008 Name: Escatawpa River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350
100%	4,974	4,652	4,815	6,605	7,525	2,989	3,751	3,152	3,030	3,851	2,854	5,396
98%	4,010	4,252	4,187	6,566	5,408	2,824	3,543	2,587	3,015	2,859	2,846	3,390
95%	3,701	3,780	3,991	3,607	3,691	1,964	2,022	1,648	2,554	2,271	2,464	2,727
90%	2,945	3,715	3,692	3,293	2,781	1,620	1,825	1,170	2,304	1,153	1,913	2,484
75%	2,404	2,583	2,711	1,922	1,737	1,288	1,018	797	1,338	685	1,156	1,836
50%	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981
25%	1,029	1,387	1,450	837	528	477	442	418	337	320	395	683
10%	721	754	1,090	642	240	256	350	313	292	242	299	535
5%	592	610	922	618	216	223	262	277	258	220	262	498
2%	501	517	851	528	191	195	227	246	240	197	259	383
0%	497	408	606	411	187	180	152	195	194	136	251	349

Site #: 03170008 Name: Escatawpa River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 767 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350
100%	4,974	4,652	4,815	6,605	7,525	2,989	3,751	3,152	3,030	3,851	2,854	5,396
98%	4,010	4,252	4,187	6,566	5,408	2,824	3,543	2,587	3,015	2,859	2,846	3,390
95%	3,701	3,780	3,991	3,607	3,691	1,964	2,022	1,648	2,554	2,271	2,464	2,727
90%	2,945	3,715	3,692	3,293	2,781	1,620	1,825	1,170	2,304	1,153	1,913	2,484
75%	2,404	2,583	2,711	1,922	1,737	1,288	1,018	797	1,338	685	1,156	1,836
50%	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981
25%	1,029	1,387	1,450	837	528	477	442	418	337	320	395	683
10%	721	754	1,090	642	240	256	350	313	292	242	299	535
5%	592	610	922	618	216	223	262	277	258	220	262	498
2%	501	517	851	528	191	195	227	246	240	197	259	383
0%	497	408	606	411	187	180	152	195	194	136	251	349

Monthly Flows (in CFS) for
06030001 - Guntersville Lake Subbasin

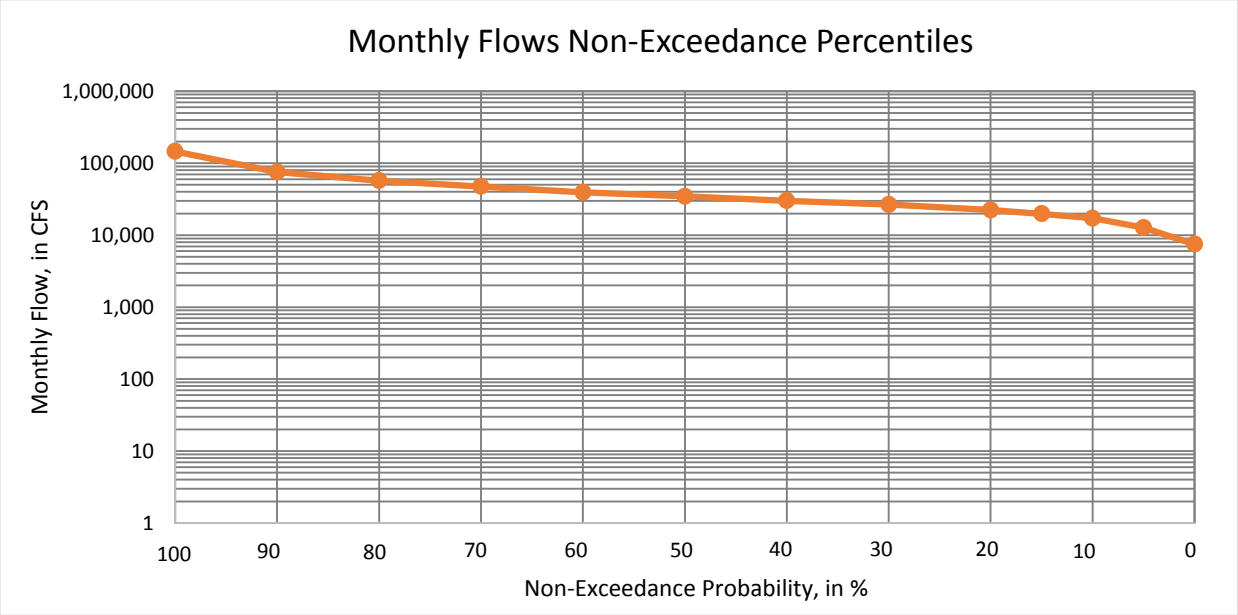
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	78,874	94,639	108,158	69,660	38,458	39,863	41,687	34,490	34,937	39,800	45,110	46,671	55,806
1976	65,010	47,410	40,887	23,743	26,729	36,660	43,552	36,145	29,573	32,523	33,947	50,394	38,898
1977	54,868	30,989	54,710	79,360	34,090	32,610	29,858	28,177	38,710	47,577	83,237	86,629	50,133
1978	82,090	55,493	49,358	22,327	31,468	27,403	25,661	35,716	29,113	17,774	17,290	37,977	35,943
1979	87,077	57,064	96,926	50,590	41,935	45,947	53,410	43,184	45,357	45,442	75,433	52,884	57,984
1980	65,490	41,876	98,884	56,717	39,690	30,563	33,326	26,310	25,017	19,761	22,723	21,081	40,175
1981	19,055	38,032	19,397	19,973	11,806	32,577	26,648	26,690	24,427	21,500	18,677	34,623	24,345
1982	90,623	95,986	62,542	22,363	15,477	21,820	28,700	38,310	32,167	29,794	36,483	92,339	47,024
1983	54,523	62,232	31,758	54,400	60,461	43,873	36,258	36,665	23,253	17,026	34,573	71,194	43,753
1984	49,389	46,915	51,869	37,367	106,009	31,195	40,062	43,624	36,145	24,951	30,061	35,679	44,536
1985	33,385	60,083	27,184	12,877	14,879	16,536	21,944	31,062	21,500	22,539	23,727	34,278	26,479
1986	20,403	35,562	26,602	7,609	8,223	10,217	15,475	13,413	17,473	22,213	39,552	56,232	22,687
1987	51,517	56,215	59,288	28,430	25,491	24,026	27,397	26,408	18,293	22,645	19,255	16,889	31,213
1988	38,414	29,431	16,232	11,818	7,472	11,266	12,471	15,162	17,214	16,440	28,353	25,627	19,096
1989	67,436	61,079	65,857	29,921	40,568	78,517	65,141	40,125	48,955	74,316	70,922	60,973	58,648
1990	87,029	145,342	93,215	20,795	39,456	31,575	29,812	37,627	26,997	28,973	33,202	74,449	53,573
1991	68,306	82,331	77,726	48,081	38,472	31,905	31,988	35,741	32,207	24,931	32,381	100,687	50,290
1992	64,356	33,830	49,399	14,356	19,018	36,656	35,151	30,970	34,551	35,679	58,135	82,345	41,322
1993	85,660	43,666	78,703	45,898	25,231	25,027	22,112	29,446	27,709	19,032	23,853	49,173	39,691
1994	73,647	117,521	103,061	130,153	25,920	32,672	42,374	43,599	43,407	45,954	40,551	47,723	61,766
1995	63,383	69,982	63,154	12,035	16,419	19,805	23,150	31,894	35,104	51,508	59,319	48,744	41,077
1996	87,213	91,973	62,517	31,662	31,454	41,762	25,014	38,048	37,132	41,602	51,683	80,182	51,478
1997	82,351	63,603	100,560	28,639	46,647	66,639	38,301	31,620	30,602	35,867	36,541	26,971	49,001
1998	67,535	86,800	61,906	85,246	55,673	51,227	27,134	30,700	24,945	21,908	22,382	34,489	47,189
1999	68,090	46,840	49,839	10,141	29,484	19,233	46,486	29,457	21,947	22,455	26,166	23,965	32,874
2000	26,524	25,175	29,235	49,217	14,309	15,899	19,623	32,549	21,320	27,688	27,208	22,377	25,906
2001	30,662	52,466	38,668	14,308	11,038	17,875	18,597	39,031	28,964	28,584	27,073	39,019	28,737
2002	63,537	35,909	47,515	25,943	30,237	16,642	20,010	25,029	26,775	27,545	56,569	79,357	38,010
2003	43,008	105,410	59,994	41,250	111,467	48,751	53,087	49,152	42,496	38,348	50,446	66,325	58,911
2004	58,069	70,146	47,073	11,756	12,120	35,044	33,611	31,905	73,924	46,460	73,254	122,442	51,193
2005	57,751	54,560	43,808	40,699	23,916	31,408	42,565	32,616	35,706	29,465	24,803	32,185	37,363
2006	48,779	38,604	21,612	26,589	19,805	17,484	18,933	27,673	28,064	32,330	57,328	29,309	30,456
2007	51,361	22,509	18,642	11,658	10,117	19,977	16,221	26,104	10,987	11,893	11,300	10,637	18,472
2008	20,550	35,641	36,218	18,764	10,702	14,097	14,929	25,516	12,508	12,694	10,191	49,661	21,762
2009	65,214	29,196	32,790	26,522	55,017	29,826	19,833	29,916	36,881	54,308	71,888	104,614	46,530
2010	76,130	96,996	34,923	16,609	28,325	19,867	14,874	26,314	21,251	20,388	29,106	49,903	35,883
2011	40,647	30,999	98,519	72,388	26,625	23,689	23,674	24,366	36,106	25,119	48,019	93,008	45,383
2012	77,273	57,500	51,133	10,093	10,915	17,187	18,989	29,510	28,148	29,823	33,039	36,317	33,251
2013	102,151	104,564	56,283	48,142	81,751	52,431	82,394	35,818	35,356	33,383	34,779	73,106	61,536
2014	69,799	63,653	33,741	24,132	16,018	19,538	20,485	26,775	26,696	41,581	42,463	42,437	35,460

Non-Exceedance Percentiles

06030001 - Guntersville Lake Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637	18,472
5th %	20,542	28,995	19,359	10,138	10,022	13,955	14,926	23,906	16,979	16,253	16,991	20,871	21,629
10th %	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806	24,179
15th %	37,659	33,406	28,928	12,002	11,691	17,105	18,882	26,279	21,310	19,652	22,672	26,770	26,393
20th %	42,536	35,625	32,584	14,021	13,871	17,796	19,496	26,389	21,858	21,278	23,828	31,609	30,112
30th %	51,470	40,894	37,933	19,611	16,298	19,849	21,506	28,026	24,995	22,513	27,167	35,362	34,798
40th %	57,942	47,212	47,338	23,191	24,705	23,891	24,478	29,753	27,424	25,052	31,453	41,070	37,751
Median	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958	40,626
60th %	67,476	60,481	57,485	30,617	30,724	31,707	30,710	32,576	32,183	30,826	37,746	51,390	44,875
70th %	70,953	65,551	62,524	42,644	38,462	33,384	35,483	35,764	35,180	35,735	45,983	67,786	47,733
80th %	79,517	87,834	77,922	49,491	40,841	40,243	41,825	37,711	36,292	41,585	56,721	79,522	51,250
90th %	87,033	97,753	98,555	69,933	56,152	48,999	47,147	40,431	42,587	46,572	71,019	92,406	58,051
Maximum	102,151	145,342	108,158	130,153	111,467	78,517	82,394	49,152	73,924	74,316	83,237	122,442	61,766
Average	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572	40,846

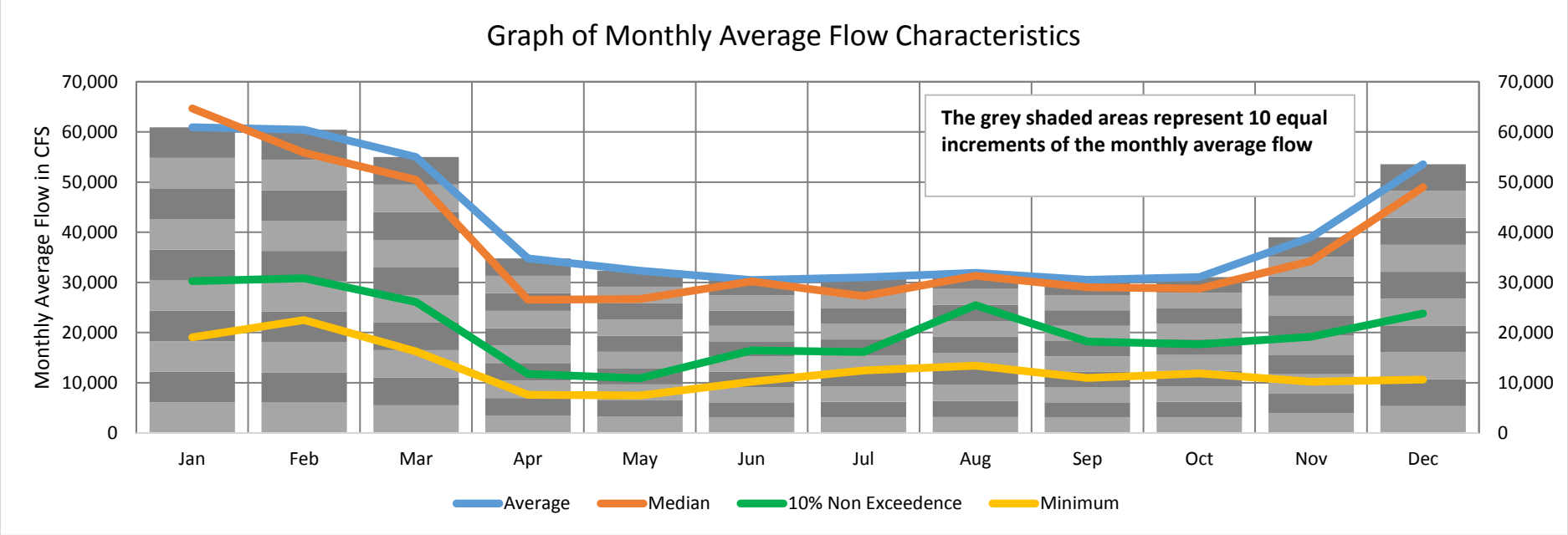
	Flows in CFS
Minimum	7,472.3
5th %	12,685
10th %	17,171
15th %	19,805
20th %	22,356
30th %	26,641
40th %	30,005
Median	34,562
60th %	39,201
70th %	47,534
80th %	57,117
90th %	75,503
Maximum	145,342
Average	40,927



Q10/Q50	0.50
Q10/Q90	0.23
	CFSM*
Qmin/DA	0.31
Q5/DA	0.52
Q10/DA	0.70
Q15/DA	0.81
Q20/DA	0.91
Q30/DA	1.09
Q40/DA	1.23
Q50/DA	1.41
Q60/DA	1.60
Q70/DA	1.94
Q80/DA	2.34
Q90/DA	3.09
Qmax/DA	5.94

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

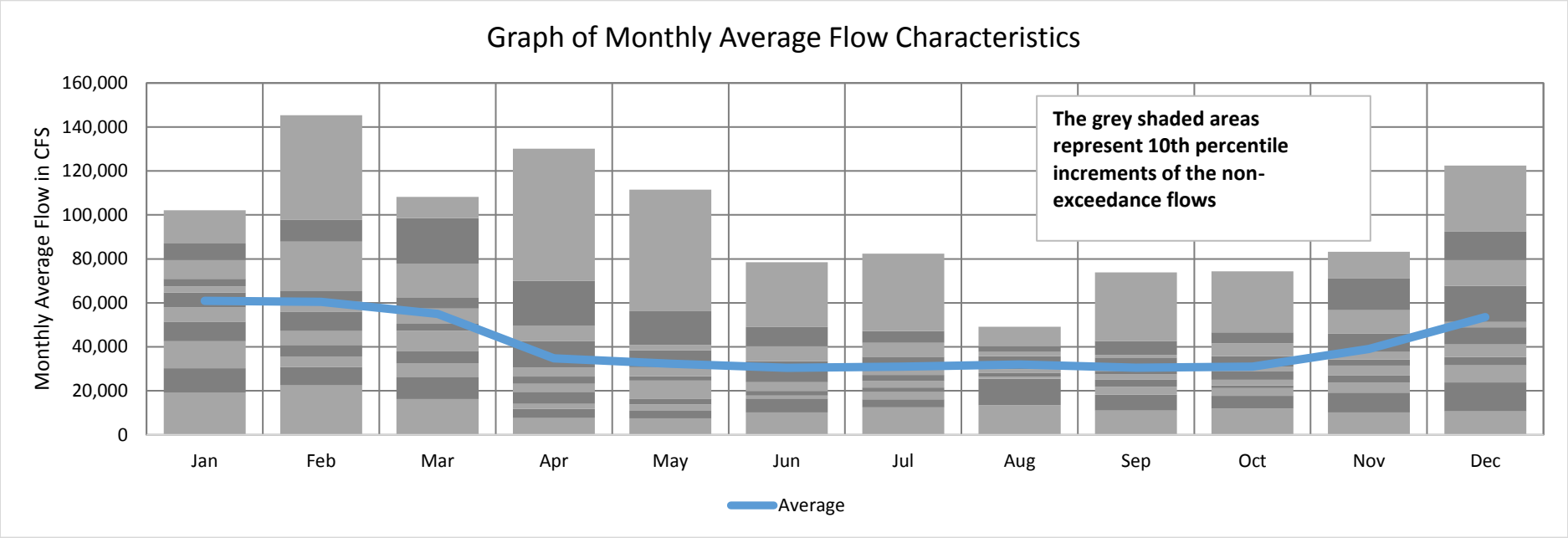
Site #: 06030001 Name: Guntersville Lake Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572
100%	102,151	145,342	108,158	130,153	111,467	78,517	82,394	49,152	73,924	74,316	83,237	122,442
98%	93,159	123,641	104,183	95,125	107,210	69,252	68,937	44,840	54,448	58,709	77,150	108,536
95%	87,383	106,015	100,685	79,654	82,964	53,142	53,996	43,600	45,537	51,648	73,363	100,884
90%	87,033	97,753	98,555	69,933	56,152	48,999	47,147	40,431	42,587	46,572	71,019	92,406
75%	76,416	73,193	63,830	48,097	39,514	36,657	38,741	36,275	35,806	38,711	50,755	73,442
50%	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958
25%	49,236	37,501	34,627	16,045	15,328	19,462	19,965	26,754	24,133	22,137	25,825	34,436
10%	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806
5%	20,542	28,995	19,359	10,138	10,022	13,955	14,926	23,906	16,979	16,253	16,991	20,871
2%	20,106	24,588	18,111	9,547	8,058	11,036	14,345	14,777	12,173	12,518	11,056	15,513
0%	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637

Site #: 06030001 Name: Guntersville Lake Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 24,450 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572
100%	102,151	145,342	108,158	130,153	111,467	78,517	82,394	49,152	73,924	74,316	83,237	122,442
98%	93,159	123,641	104,183	95,125	107,210	69,252	68,937	44,840	54,448	58,709	77,150	108,536
95%	87,383	106,015	100,685	79,654	82,964	53,142	53,996	43,600	45,537	51,648	73,363	100,884
90%	87,033	97,753	98,555	69,933	56,152	48,999	47,147	40,431	42,587	46,572	71,019	92,406
75%	76,416	73,193	63,830	48,097	39,514	36,657	38,741	36,275	35,806	38,711	50,755	73,442
50%	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958
25%	49,236	37,501	34,627	16,045	15,328	19,462	19,965	26,754	24,133	22,137	25,825	34,436
10%	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806
5%	20,542	28,995	19,359	10,138	10,022	13,955	14,926	23,906	16,979	16,253	16,991	20,871
2%	20,106	24,588	18,111	9,547	8,058	11,036	14,345	14,777	12,173	12,518	11,056	15,513
0%	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637

Monthly Flows (in CFS) for
06030002 - Wheeler Lake Subbasin

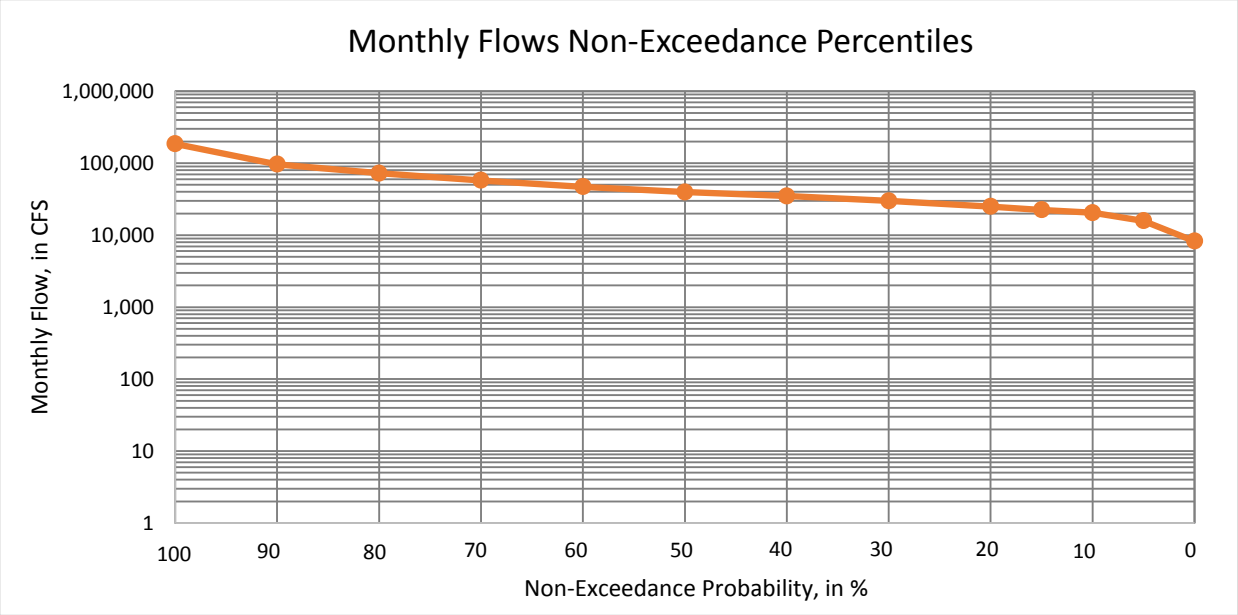
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	104,945	113,900	142,768	87,570	48,910	44,030	45,600	38,239	40,727	66,855	54,587	56,487	70,177
1976	81,135	59,607	51,581	26,163	33,677	41,927	47,913	38,700	31,990	37,387	38,260	57,581	45,497
1977	64,755	36,850	82,945	102,823	37,723	34,767	32,123	29,523	43,537	57,626	106,553	107,245	61,458
1978	94,706	64,039	64,119	23,403	47,055	35,340	31,865	41,223	31,473	20,806	20,577	45,290	43,326
1979	109,603	68,064	117,348	69,470	47,400	53,727	55,668	48,829	54,670	55,723	90,393	62,742	69,508
1980	76,497	52,131	137,690	73,010	53,639	35,240	35,261	30,374	27,900	22,103	29,527	24,910	49,931
1981	21,097	44,946	23,777	28,033	14,535	36,297	29,281	29,265	26,457	22,152	21,160	43,435	28,238
1982	114,397	106,586	73,032	31,930	22,432	26,217	34,652	45,252	36,487	31,990	41,030	108,165	55,841
1983	64,535	74,721	43,097	82,900	86,719	51,783	41,461	39,326	26,650	20,232	39,407	94,652	55,356
1984	62,951	53,293	62,885	50,219	129,806	34,869	42,029	46,238	37,063	29,579	38,674	47,202	53,036
1985	39,428	78,325	29,429	15,247	21,128	18,813	23,806	37,813	24,404	28,418	29,300	39,811	31,893
1986	23,310	46,140	33,485	9,754	9,996	13,967	18,335	15,672	21,004	24,659	56,750	79,121	29,255
1987	63,605	69,112	77,459	31,018	28,424	26,378	27,387	29,829	20,860	22,524	20,797	22,172	36,494
1988	52,442	36,297	18,693	17,328	8,248	11,285	14,361	16,234	20,401	17,869	37,234	35,232	23,724
1989	97,164	79,838	92,638	45,758	44,876	103,247	82,616	42,789	53,296	92,065	79,030	67,507	73,383
1990	110,269	185,671	114,999	26,039	48,238	34,906	31,368	38,721	27,935	29,637	34,887	116,153	65,980
1991	87,063	115,911	100,794	73,514	62,066	37,155	33,704	38,365	34,714	26,294	33,830	132,687	64,471
1992	77,940	40,636	62,647	18,191	20,379	42,319	38,862	34,037	39,898	38,826	68,777	93,290	48,106
1993	103,224	51,821	92,479	54,310	36,378	27,110	23,278	31,423	29,427	20,589	27,857	56,320	46,264
1994	87,727	153,643	125,138	148,861	31,441	37,300	47,367	47,076	45,717	49,848	45,608	62,748	72,927
1995	71,971	83,302	77,749	15,927	20,380	21,058	25,347	36,099	37,552	62,255	75,490	60,996	48,855
1996	107,363	106,431	84,395	46,324	35,672	43,616	27,571	41,668	42,536	47,222	57,994	101,456	61,644
1997	101,005	81,174	126,118	30,642	56,593	92,633	44,097	33,818	34,675	44,684	45,524	35,445	60,470
1998	93,557	108,117	81,269	97,948	64,132	57,667	29,953	36,381	28,286	24,593	24,803	42,858	57,105
1999	97,424	62,069	65,547	12,910	38,892	23,262	51,443	30,176	23,434	22,488	28,183	26,598	40,222
2000	31,114	28,492	39,605	70,219	15,844	17,887	20,452	32,953	20,843	31,354	32,803	31,204	31,037
2001	42,711	72,327	57,797	21,202	17,076	29,160	23,864	48,260	34,988	33,226	31,626	63,236	39,468
2002	85,899	49,311	58,822	38,099	41,476	17,950	21,523	24,031	28,983	31,411	65,944	97,505	46,824
2003	50,571	131,291	78,215	43,730	140,598	53,813	60,875	51,491	45,152	39,389	52,054	72,230	67,981
2004	64,869	99,730	62,688	12,128	12,882	40,275	38,203	31,861	75,785	50,939	83,149	164,906	61,231
2005	68,501	66,479	51,212	51,146	24,792	31,835	42,061	31,627	34,998	28,701	27,943	36,834	41,191
2006	61,773	47,900	24,628	30,852	25,066	17,739	17,783	24,847	27,968	32,820	59,382	31,565	33,404
2007	60,985	26,676	21,038	11,273	11,594	19,201	16,449	24,540	12,465	12,710	12,519	12,332	20,164
2008	21,818	46,580	46,991	27,293	15,684	16,874	16,057	27,289	14,041	15,201	12,368	72,856	27,710
2009	86,233	33,595	47,228	41,105	83,001	33,768	22,046	32,000	46,856	69,182	82,969	128,378	59,155
2010	92,958	119,847	45,754	21,335	37,784	23,253	15,981	26,790	23,337	22,817	32,795	60,275	43,152
2011	52,676	38,863	120,331	103,648	36,125	26,875	27,208	25,758	42,159	27,896	50,836	117,357	55,950
2012	105,800	73,745	62,129	11,217	11,700	18,969	20,545	31,587	32,997	37,105	37,147	48,084	40,822
2013	131,827	121,522	72,179	60,639	104,157	58,527	96,492	42,128	39,381	37,022	38,831	86,153	73,952
2014	83,138	80,886	42,792	33,386	21,989	28,792	23,025	29,662	29,795	50,231	51,178	56,131	44,042

Non-Exceedance Percentiles

06030002 - Wheeler Lake Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332	20,164
5th %	23,235	33,340	23,640	11,270	11,514	16,729	16,053	23,641	20,083	17,736	20,174	24,773	27,511
10th %	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744	29,153
15th %	49,392	40,370	38,687	15,825	15,511	18,684	20,134	26,635	22,987	21,909	27,399	34,682	31,764
20th %	52,629	45,901	43,036	18,018	16,830	19,154	21,327	28,869	24,210	22,420	28,135	36,556	35,876
30th %	63,409	51,068	50,017	25,248	21,731	25,330	23,648	30,072	27,924	24,639	32,444	44,734	41,080
40th %	67,048	61,084	60,806	29,599	27,081	28,119	27,315	31,611	29,249	28,588	36,243	56,244	44,915
Median	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635	48,481
60th %	86,565	76,163	74,803	44,541	38,227	35,280	34,083	36,954	34,992	34,745	45,558	64,944	55,550
70th %	93,902	81,813	81,772	52,095	47,158	38,192	39,642	38,706	38,100	38,995	52,813	81,231	59,550
80th %	101,449	106,892	94,269	70,777	54,230	43,699	44,397	41,760	42,234	49,925	60,695	98,295	62,209
90th %	107,587	120,014	120,812	88,608	83,373	54,198	51,866	46,322	45,830	58,089	79,424	116,273	69,575
Maximum	131,827	185,671	142,768	148,861	140,598	103,247	96,492	51,491	75,785	92,065	106,553	164,906	73,952
Average	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479	49,481

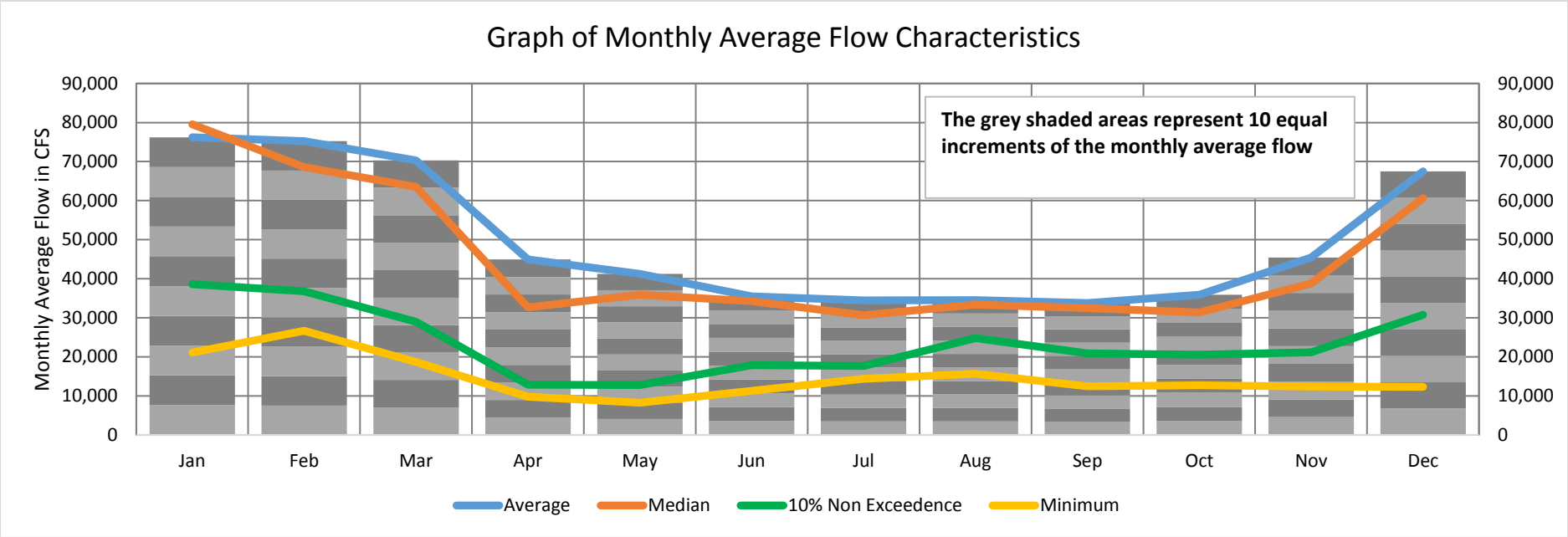
	Flows in CFS
Minimum	8,247.5
5th %	15,836
10th %	20,447
15th %	22,479
20th %	25,035
30th %	29,916
40th %	34,955
Median	39,708
60th %	47,063
70th %	57,594
80th %	72,433
90th %	96,559
Maximum	185,671
Average	49,586



Q10/Q50	0.51
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.28
Q5/DA	0.54
Q10/DA	0.69
Q15/DA	0.76
Q20/DA	0.85
Q30/DA	1.01
Q40/DA	1.18
Q50/DA	1.34
Q60/DA	1.59
Q70/DA	1.95
Q80/DA	2.45
Q90/DA	3.26
Qmax/DA	6.27

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

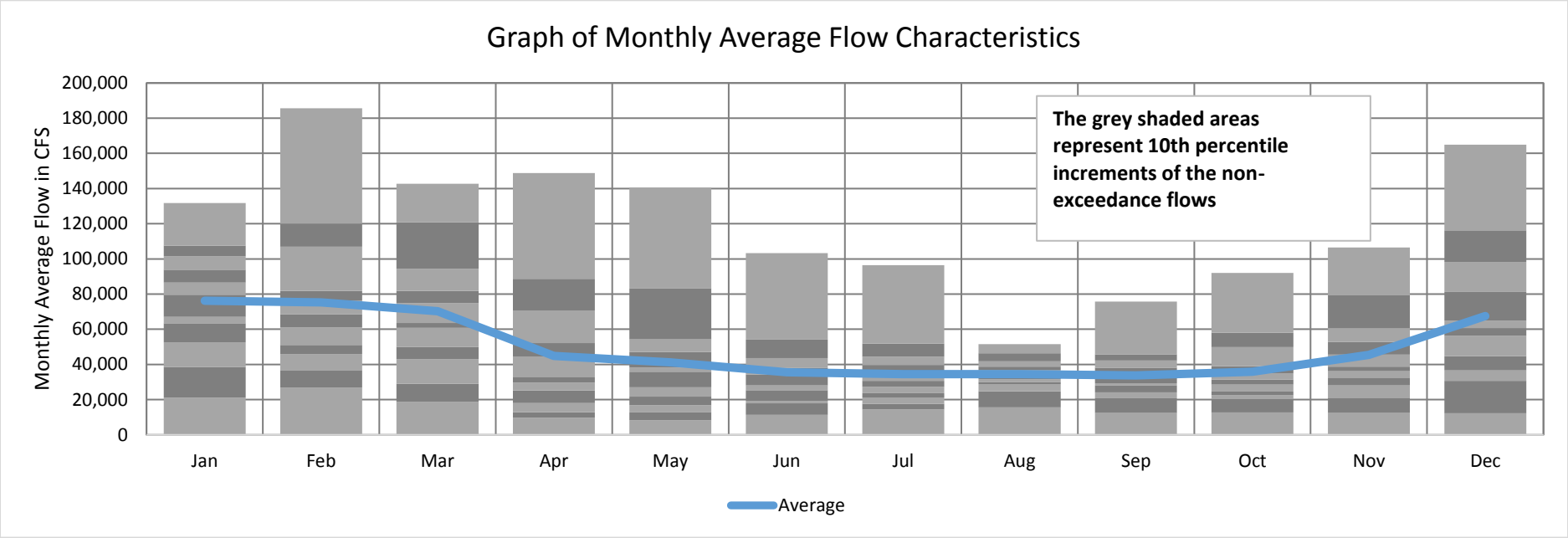
Site #: 06030002 Name: Wheeler Lake Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479
100%	131,827	185,671	142,768	148,861	140,598	103,247	96,492	51,491	75,785	92,065	106,553	164,906
98%	118,231	160,689	138,807	113,595	132,180	94,968	85,669	49,415	59,315	74,216	93,949	139,775
95%	110,475	132,409	126,697	102,865	105,439	60,233	61,962	48,288	53,365	66,971	83,511	128,593
90%	107,587	120,014	120,812	88,608	83,373	54,198	51,866	46,322	45,830	58,089	79,424	116,273
75%	97,229	101,406	86,416	62,847	48,406	42,025	42,037	39,800	40,105	45,318	57,061	93,631
50%	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635
25%	61,576	47,570	46,682	21,302	20,380	22,704	22,780	29,627	26,602	22,744	29,470	42,096
10%	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744
5%	23,235	33,340	23,640	11,270	11,514	16,729	16,053	23,641	20,083	17,736	20,174	24,773
2%	21,660	28,093	20,522	10,895	9,611	13,377	15,624	16,111	13,694	14,653	12,486	20,008
0%	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332

Site #: 06030002 Name: Wheeler Lake Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 29,590 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479
100%	131,827	185,671	142,768	148,861	140,598	103,247	96,492	51,491	75,785	92,065	106,553	164,906
98%	118,231	160,689	138,807	113,595	132,180	94,968	85,669	49,415	59,315	74,216	93,949	139,775
95%	110,475	132,409	126,697	102,865	105,439	60,233	61,962	48,288	53,365	66,971	83,511	128,593
90%	107,587	120,014	120,812	88,608	83,373	54,198	51,866	46,322	45,830	58,089	79,424	116,273
75%	97,229	101,406	86,416	62,847	48,406	42,025	42,037	39,800	40,105	45,318	57,061	93,631
50%	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635
25%	61,576	47,570	46,682	21,302	20,380	22,704	22,780	29,627	26,602	22,744	29,470	42,096
10%	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744
5%	23,235	33,340	23,640	11,270	11,514	16,729	16,053	23,641	20,083	17,736	20,174	24,773
2%	21,660	28,093	20,522	10,895	9,611	13,377	15,624	16,111	13,694	14,653	12,486	20,008
0%	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332

Monthly Flows (in CFS) for
06030004 - Lower Elk River Subbasin

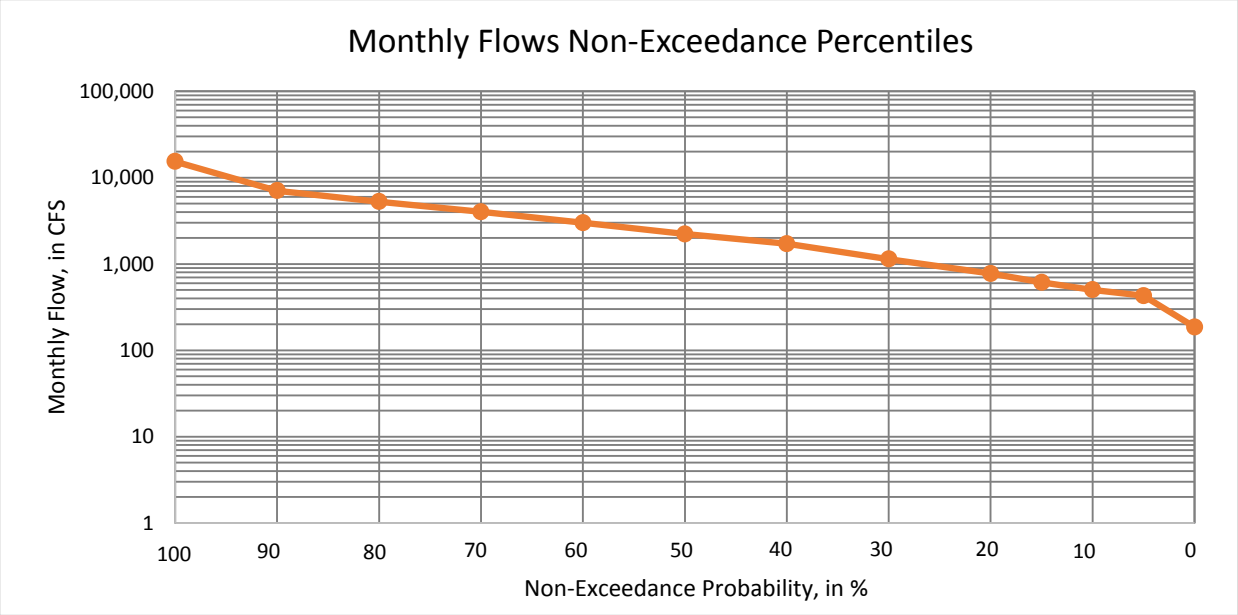
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,812	5,523	13,360	4,312	3,695	1,801	780	660	2,045	8,699	5,065	4,185	4,924
1976	6,035	4,481	3,684	2,137	1,959	1,777	1,583	608	851	2,934	2,427	2,822	2,602
1977	4,069	3,067	9,048	8,912	1,573	853	526	446	1,437	3,625	8,888	6,604	4,085
1978	4,407	2,072	4,735	795	4,948	2,338	1,097	613	475	613	1,191	4,376	2,319
1979	10,350	4,823	5,755	7,047	2,549	2,753	1,215	1,309	4,389	2,777	7,138	4,028	4,500
1980	4,625	2,706	13,360	5,868	3,958	997	890	545	443	465	1,309	1,256	3,048
1981	799	2,018	1,635	1,773	579	974	502	480	479	551	769	2,685	1,097
1982	8,321	5,404	4,063	2,863	1,581	552	791	1,064	733	622	2,015	7,315	2,939
1983	4,270	4,993	3,605	10,220	9,806	3,116	1,366	792	432	545	3,238	9,227	4,296
1984	3,674	2,726	4,294	3,737	8,385	899	581	926	495	1,803	4,901	3,789	3,025
1985	2,647	6,377	1,464	1,158	1,106	773	528	1,364	723	884	2,048	2,411	1,759
1986	980	3,244	2,785	728	1,370	1,314	565	303	758	1,011	7,159	8,655	2,398
1987	3,718	5,420	4,916	1,937	624	375	457	241	848	209	619	2,278	1,783
1988	4,082	2,659	1,506	2,825	445	201	341	275	353	304	2,924	3,628	1,621
1989	9,756	8,656	7,820	5,465	1,265	8,011	6,260	1,205	2,094	6,442	2,861	2,524	5,175
1990	7,163	12,640	6,586	1,730	2,534	1,012	745	291	604	817	1,187	15,320	4,184
1991	6,750	13,360	9,476	6,781	5,100	2,129	636	443	339	434	957	14,260	5,015
1992	5,249	2,818	4,526	1,795	559	1,179	1,293	1,166	3,037	1,199	4,963	5,396	2,765
1993	5,412	2,442	5,598	3,625	3,451	1,599	884	564	407	475	1,707	3,884	2,512
1994	6,501	13,680	11,110	8,493	1,382	999	1,256	1,008	659	2,554	6,503	4,966	4,862
1995	1,988	1,713	3,378	452	472	599	882	1,726	733	5,440	9,809	6,632	2,827
1996	7,814	4,619	4,006	3,264	1,819	1,442	724	2,441	1,722	5,021	7,147	7,034	3,921
1997	5,424	2,973	6,952	1,825	1,744	8,158	2,116	1,112	1,985	9,255	8,162	2,509	4,355
1998	5,396	2,304	4,981	6,342	2,517	4,870	1,020	2,088	1,956	2,405	3,256	5,015	3,516
1999	7,174	6,149	6,056	570	1,464	1,728	3,381	1,976	599	1,334	3,514	3,027	3,072
2000	1,564	430	1,939	6,921	910	1,997	1,021	2,225	1,111	2,527	3,988	5,723	2,536
2001	2,637	5,017	5,937	625	1,128	1,560	2,253	3,928	2,148	3,503	4,020	8,227	3,417
2002	8,202	4,715	3,069	4,532	3,905	1,238	1,559	1,182	1,441	3,203	4,025	7,232	3,693
2003	2,900	7,692	6,841	571	11,721	1,996	5,302	1,964	1,076	1,215	2,321	3,590	3,928
2004	2,788	9,561	6,184	1,885	904	4,553	4,302	1,782	2,733	3,312	5,480	14,010	4,764
2005	5,294	4,576	2,221	4,487	1,049	1,124	1,030	715	1,194	1,094	2,012	2,712	2,275
2006	6,294	3,539	2,184	2,587	2,088	1,142	500	370	353	803	2,363	1,609	1,977
2007	4,355	1,293	1,797	914	492	286	329	282	186	188	301	532	915
2008	629	2,787	3,438	4,511	1,281	918	531	613	332	628	862	6,586	1,922
2009	4,645	1,204	3,928	4,742	6,617	590	643	511	2,953	4,464	3,454	6,571	3,382
2010	5,879	6,920	3,251	1,417	3,460	948	441	352	287	461	1,750	3,149	2,336
2011	3,027	1,982	6,252	9,488	3,464	1,414	1,397	477	1,243	703	3,156	8,053	3,395
2012	7,125	3,951	2,739	840	469	295	515	435	945	2,004	2,026	5,307	2,220
2013	8,399	4,895	3,756	5,288	6,391	2,561	4,688	1,893	491	880	2,070	4,587	3,830
2014	3,255	4,800	2,117	2,687	2,346	4,002	689	837	584	2,480	3,744	5,296	2,719

Non-Exceedance Percentiles

06030004 - Lower Elk River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	629	430	1,464	452	445	201	329	241	186	188	301	532	915
5th %	971	1,289	1,629	571	472	294	436	282	329	299	762	1,591	1,594
10th %	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398	1,781
15th %	2,645	2,064	2,174	833	617	598	513	368	399	473	1,190	2,522	1,969
20th %	2,877	2,414	2,635	1,109	909	837	527	441	441	550	1,627	2,707	2,264
30th %	3,705	2,769	3,340	1,788	1,224	966	620	502	494	681	2,023	3,458	2,478
40th %	4,321	3,173	3,727	2,057	1,431	1,079	736	611	637	883	2,346	3,970	2,747
Median	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776	3,036
60th %	5,417	4,809	4,942	3,967	2,414	1,576	1,025	1,030	998	2,164	3,478	5,343	3,404
70th %	6,356	5,133	5,973	4,595	3,454	1,859	1,267	1,189	1,301	2,621	4,022	6,591	3,857
80th %	7,165	6,195	6,637	5,963	3,916	2,383	1,564	1,737	1,962	3,350	5,148	7,249	4,206
90th %	8,329	8,747	9,091	7,192	6,414	4,057	3,473	1,987	2,206	5,063	7,149	8,712	4,774
Maximum	10,350	13,680	13,360	10,220	11,721	8,158	6,260	3,928	4,389	9,255	9,809	15,320	5,175
Average	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425	3,148

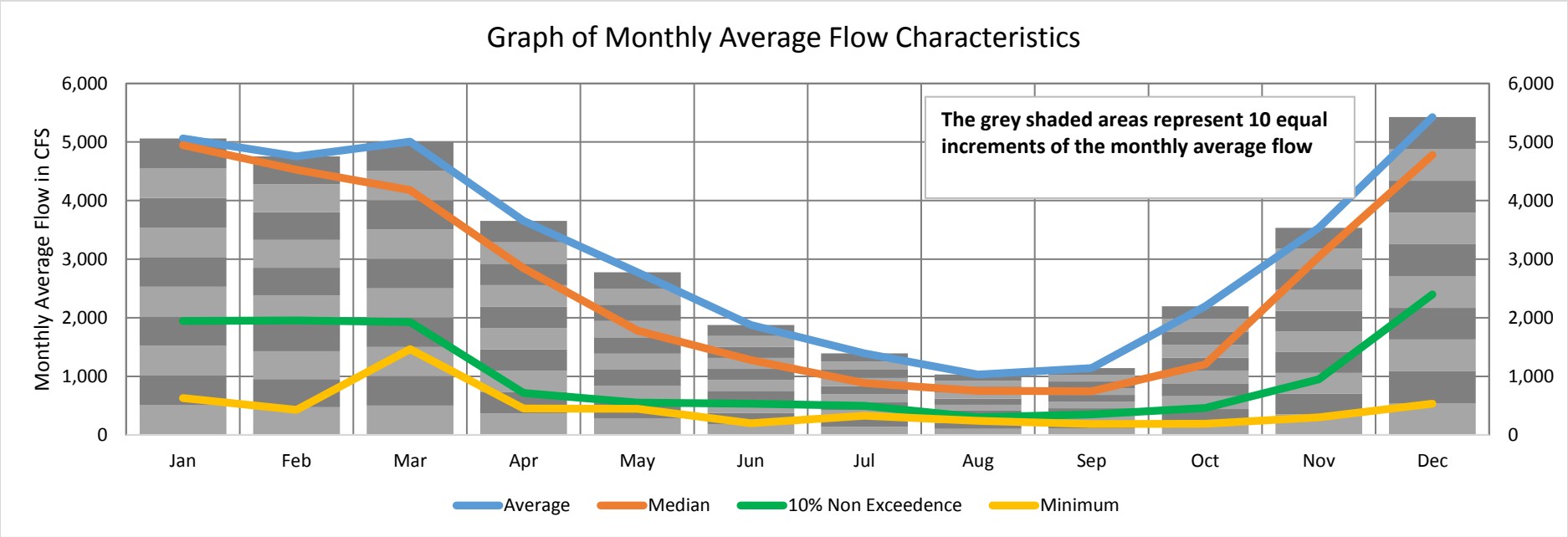
	Flows in CFS
Minimum	186.1
5th %	429
10th %	502
15th %	612
20th %	773
30th %	1,138
40th %	1,711
Median	2,223
60th %	2,995
70th %	4,011
80th %	5,257
90th %	7,055
Maximum	15,320
Average	3,154



Q10/Q50	0.23
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.10
Q5/DA	0.24
Q10/DA	0.28
Q15/DA	0.34
Q20/DA	0.43
Q30/DA	0.63
Q40/DA	0.95
Q50/DA	1.23
Q60/DA	1.66
Q70/DA	2.22
Q80/DA	2.91
Q90/DA	3.91
Qmax/DA	8.49

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

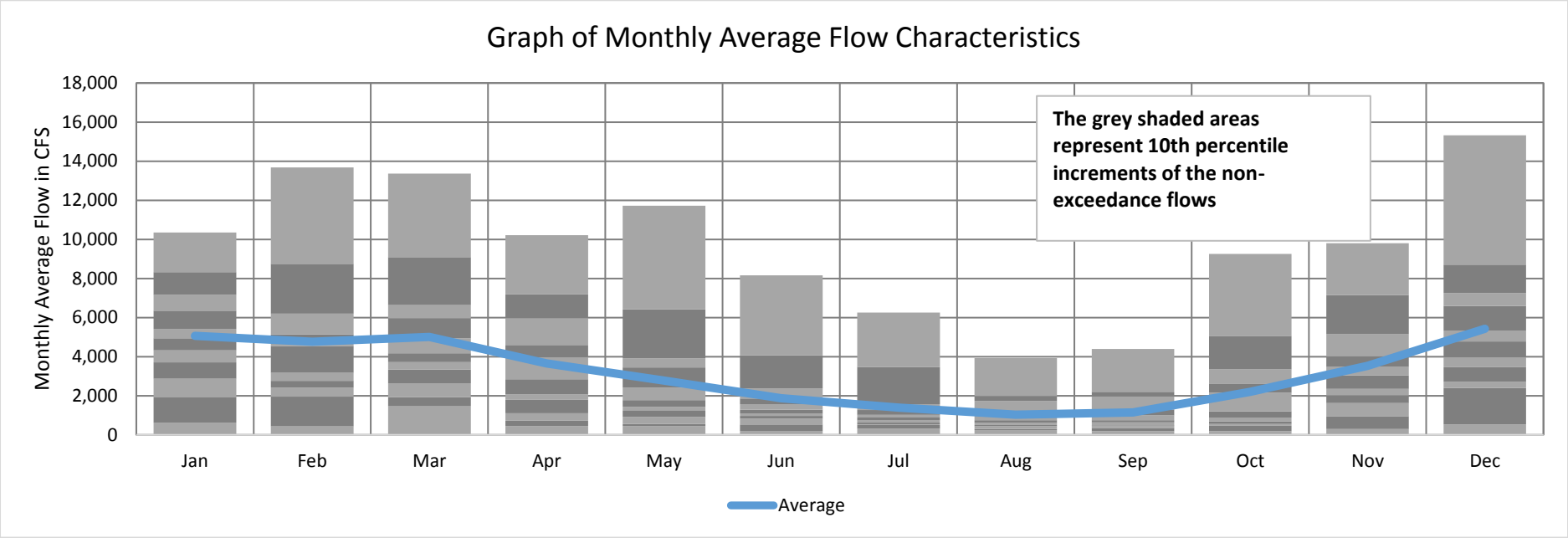
Site #: 06030004 Name: Lower Elk River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425
100%	10,350	13,680	13,360	10,220	11,721	8,158	6,260	3,928	4,389	9,255	9,809	15,320
98%	9,887	13,430	13,360	9,649	10,227	8,043	5,512	2,768	3,334	8,821	9,091	14,493
95%	8,859	12,676	11,223	8,941	8,456	5,027	4,719	2,236	2,957	6,555	8,198	14,023
90%	8,329	8,747	9,091	7,192	6,414	4,057	3,473	1,987	2,206	5,063	7,149	8,712
75%	6,844	5,446	6,201	5,332	3,522	2,030	1,374	1,323	1,511	3,001	4,917	6,733
50%	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776
25%	3,198	2,694	2,998	1,652	1,092	913	556	469	478	620	1,947	2,976
10%	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398
5%	971	1,289	1,629	571	472	294	436	282	329	299	762	1,591
2%	762	1,034	1,497	544	464	268	338	268	265	205	549	1,097
0%	629	430	1,464	452	445	201	329	241	186	188	301	532

Site #: 06030004 Name: Lower Elk River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,805 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425
100%	10,350	13,680	13,360	10,220	11,721	8,158	6,260	3,928	4,389	9,255	9,809	15,320
98%	9,887	13,430	13,360	9,649	10,227	8,043	5,512	2,768	3,334	8,821	9,091	14,493
95%	8,859	12,676	11,223	8,941	8,456	5,027	4,719	2,236	2,957	6,555	8,198	14,023
90%	8,329	8,747	9,091	7,192	6,414	4,057	3,473	1,987	2,206	5,063	7,149	8,712
75%	6,844	5,446	6,201	5,332	3,522	2,030	1,374	1,323	1,511	3,001	4,917	6,733
50%	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776
25%	3,198	2,694	2,998	1,652	1,092	913	556	469	478	620	1,947	2,976
10%	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398
5%	971	1,289	1,629	571	472	294	436	282	329	299	762	1,591
2%	762	1,034	1,497	544	464	268	338	268	265	205	549	1,097
0%	629	430	1,464	452	445	201	329	241	186	188	301	532

Monthly Flows (in CFS) for
06030005 - Pickwick Lake Subbasin in Alabama

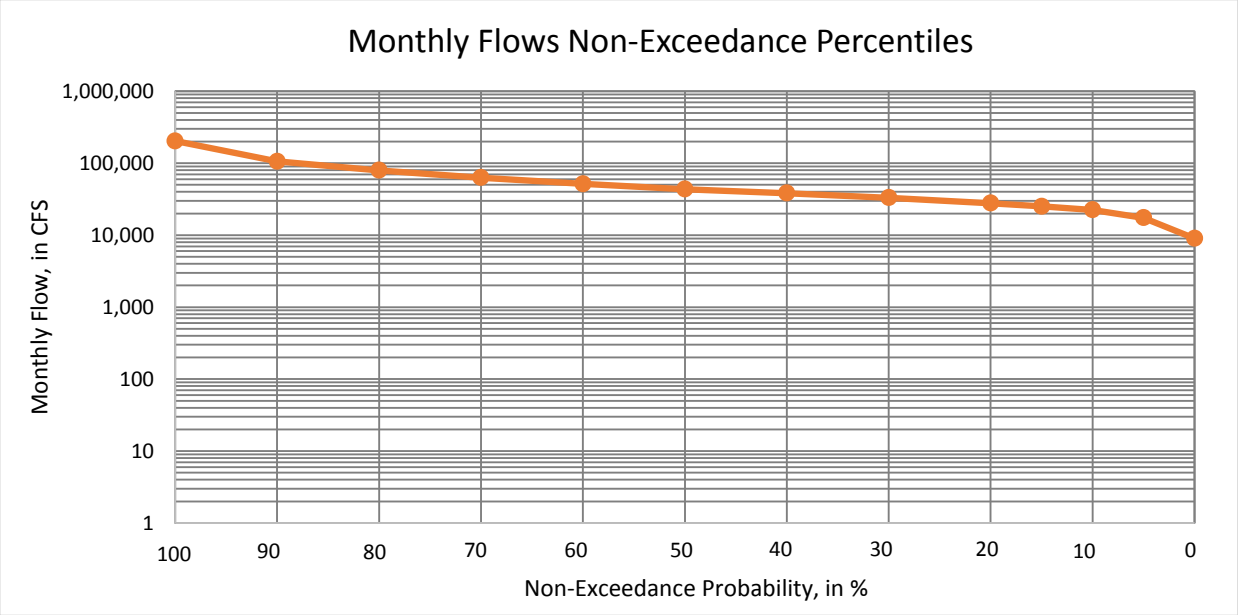
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	117,074	124,988	159,623	96,546	54,352	48,427	49,637	41,888	44,929	74,658	60,199	62,031	77,643
1976	89,278	65,995	57,863	29,258	36,971	45,820	52,064	41,969	34,939	40,598	41,982	62,859	49,966
1977	71,144	40,622	93,916	113,026	40,909	37,676	34,736	31,894	47,233	62,815	117,192	117,065	67,447
1978	103,469	69,584	70,539	25,736	53,734	39,429	34,507	44,499	33,978	22,584	22,658	49,377	47,513
1979	121,383	74,437	128,189	76,733	51,886	58,210	60,580	52,908	60,103	60,907	100,988	69,314	76,344
1980	83,524	56,956	153,213	81,947	60,130	38,749	38,372	32,874	30,229	25,076	33,509	27,325	55,243
1981	22,973	49,087	26,132	30,859	15,834	39,344	32,017	31,846	28,737	24,971	23,723	47,352	30,929
1982	125,760	116,449	79,337	36,266	24,839	28,539	37,567	49,195	39,477	35,809	45,289	119,560	61,320
1983	71,292	82,315	48,663	94,103	97,224	57,235	45,042	42,570	29,023	22,912	43,835	106,184	61,592
1984	69,456	58,032	68,965	55,759	144,811	38,025	45,500	50,016	40,010	33,201	43,383	52,034	58,421
1985	42,978	86,581	32,068	16,853	25,194	20,532	25,883	41,093	26,576	31,895	32,667	43,614	35,199
1986	25,265	50,175	36,626	10,697	11,160	15,953	19,929	16,993	22,736	27,639	63,605	88,750	32,361
1987	69,705	75,276	86,158	33,706	30,810	28,597	29,636	32,225	22,584	25,065	23,397	24,912	40,028
1988	57,158	39,563	20,446	19,218	9,015	12,251	15,585	17,585	22,249	19,678	41,861	39,908	26,125
1989	108,464	88,218	102,827	50,307	48,981	113,336	91,002	46,406	58,049	101,348	87,138	73,986	80,818
1990	121,771	203,689	125,974	28,846	53,278	38,082	33,971	41,825	30,201	32,175	38,446	129,561	72,509
1991	97,673	127,962	112,134	83,856	73,700	42,162	36,849	41,525	37,599	28,512	37,886	147,646	72,075
1992	84,866	44,270	68,581	19,999	22,158	46,028	42,146	37,041	43,471	42,137	76,169	102,336	52,566
1993	112,930	56,677	100,821	59,988	40,239	29,475	25,321	34,076	32,053	22,429	31,668	62,105	50,734
1994	96,060	169,439	137,188	162,179	34,487	40,836	51,991	51,153	49,573	53,900	50,849	69,320	79,903
1995	79,104	91,767	86,261	18,637	23,151	23,103	27,561	39,229	40,569	67,207	83,036	67,424	53,748
1996	118,060	115,902	92,684	51,506	38,889	47,257	29,919	45,065	46,166	51,163	64,684	113,144	67,645
1997	111,249	89,200	138,053	33,536	62,618	104,357	48,720	36,865	37,645	48,671	50,658	39,639	66,695
1998	104,270	118,694	89,216	106,269	69,943	62,484	32,672	39,702	30,642	26,605	27,882	47,758	62,622
1999	108,492	68,270	72,403	14,695	42,997	25,434	55,866	32,683	25,358	24,332	31,014	29,587	44,284
2000	34,155	31,033	43,209	78,575	17,411	19,485	22,199	35,634	22,582	33,903	36,490	35,200	34,126
2001	47,983	80,128	63,644	25,869	18,938	33,482	26,035	52,380	38,414	36,349	35,396	71,357	43,988
2002	94,434	54,633	64,625	42,478	47,325	19,623	23,390	26,080	31,608	34,515	73,856	107,830	51,783
2003	55,306	144,033	85,932	47,959	155,290	58,887	66,010	55,886	49,914	43,341	57,029	78,912	74,541
2004	70,963	111,008	69,911	13,330	14,063	43,737	41,506	34,748	82,527	56,593	91,869	183,668	67,581
2005	75,231	72,942	55,942	56,337	26,980	34,716	45,793	34,398	38,444	31,127	31,954	41,675	45,292
2006	69,130	52,914	26,967	33,679	27,837	19,291	19,276	26,887	30,226	35,564	66,240	34,878	36,771
2007	67,446	29,105	22,878	12,363	12,617	20,771	17,903	26,522	13,525	13,785	13,904	13,755	22,066
2008	23,793	51,015	51,494	30,330	18,051	18,618	17,433	29,520	15,247	16,498	14,187	81,755	30,616
2009	94,300	36,566	52,591	45,511	91,006	36,843	23,883	34,592	51,937	76,662	91,515	140,588	64,987
2010	102,195	130,632	49,893	23,374	41,708	25,468	17,424	29,172	25,276	24,771	36,477	65,802	47,221
2011	58,105	42,343	131,240	115,393	40,598	29,373	29,608	27,980	46,033	30,290	56,004	128,386	61,430
2012	116,141	80,483	67,580	12,268	12,821	20,575	22,253	34,174	35,906	40,576	40,950	53,212	44,641
2013	145,014	131,847	79,020	66,520	113,646	63,409	104,859	45,642	42,686	39,994	42,970	94,491	80,718
2014	90,463	88,199	46,527	36,940	24,443	31,877	25,212	32,245	32,257	54,958	56,615	62,389	48,284

Non-Exceedance Percentiles

06030005 - Pickwick Lake Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755	22,066
5th %	25,191	36,289	25,970	12,359	12,544	18,485	17,433	25,655	21,899	19,519	22,235	27,205	30,391
10th %	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349	32,218
15th %	54,207	43,981	42,221	18,369	17,175	20,395	21,859	28,993	24,895	24,119	30,545	38,973	35,038
20th %	57,916	49,957	48,236	19,843	18,761	20,732	23,162	31,381	26,332	24,931	31,897	41,321	39,376
30th %	69,630	56,064	54,937	27,953	24,720	27,617	25,715	32,552	30,218	27,329	36,153	48,892	45,096
40th %	73,656	67,360	66,398	32,465	29,621	30,916	29,625	34,308	31,875	31,588	39,948	62,075	49,293
Median	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613	53,157
60th %	95,085	84,022	81,975	48,898	42,223	38,987	37,136	40,258	38,426	37,807	50,734	72,409	61,364
70th %	103,709	89,970	90,256	57,433	52,304	42,635	43,015	41,912	41,204	42,498	57,980	90,472	65,499
80th %	111,585	116,898	104,688	79,250	60,628	47,491	48,903	45,181	46,059	54,112	67,763	108,893	68,531
90th %	118,392	130,753	131,835	97,518	91,627	59,246	56,338	50,130	50,116	63,254	87,576	128,503	76,474
Maximum	145,014	203,689	159,623	162,179	155,290	113,336	104,859	55,886	82,527	101,348	117,192	183,668	80,818
Average	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667	54,444

	Flows in CFS
Minimum	9,015.3
5th %	17,424
10th %	22,412
15th %	25,074
20th %	27,798
30th %	33,103
40th %	38,397
Median	43,543
60th %	51,658
70th %	62,828
80th %	79,495
90th %	106,192
Maximum	203,689
Average	54,558

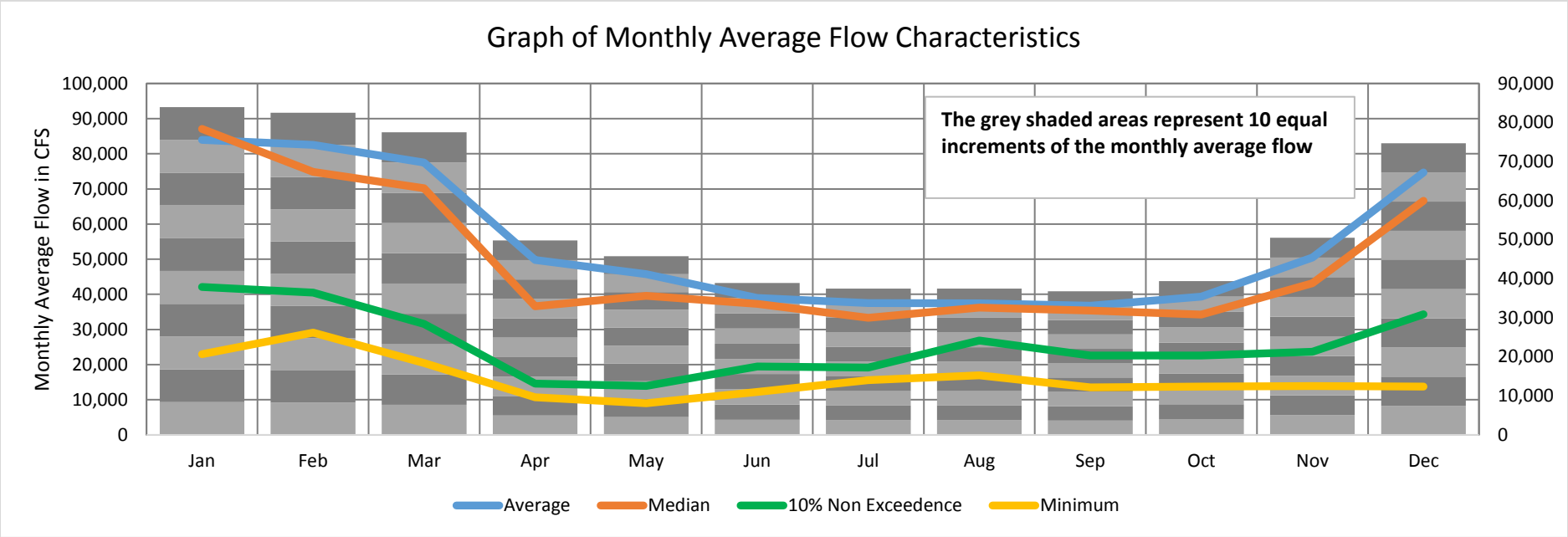


Q10/Q50	0.51
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.27
Q5/DA	0.53
Q10/DA	0.68
Q15/DA	0.76
Q20/DA	0.85
Q30/DA	1.01
Q40/DA	1.17
Q50/DA	1.33
Q60/DA	1.58
Q70/DA	1.92
Q80/DA	2.42
Q90/DA	3.24
Qmax/DA	6.21

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 06030005 Name: Pickwick Lake Subbasin in Alabama

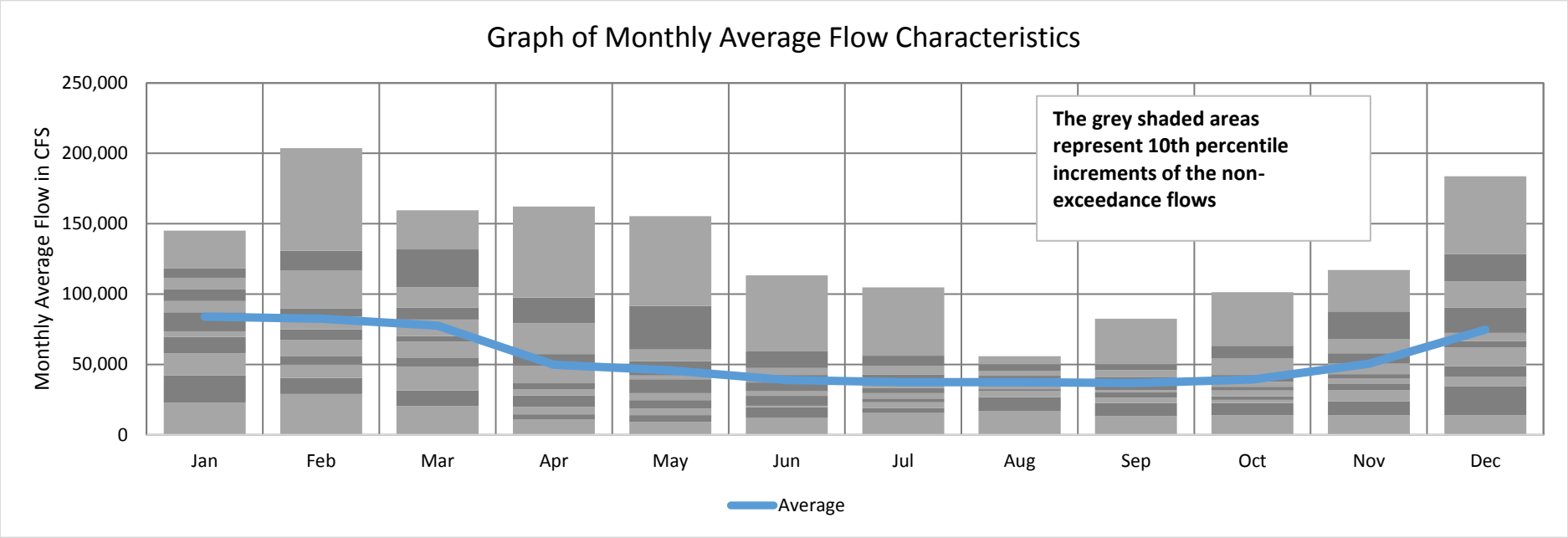
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667
100%	145,014	203,689	159,623	162,179	155,290	113,336	104,859	55,886	82,527	101,348	117,192	183,668
98%	129,996	176,974	154,623	125,686	147,116	106,332	94,051	53,563	65,036	82,093	104,553	155,571
95%	121,970	145,304	138,811	113,145	115,204	65,456	67,260	52,407	58,152	74,758	92,324	140,941
90%	118,392	130,753	131,835	97,518	91,627	59,246	56,338	50,130	50,116	63,254	87,576	128,503
75%	108,471	112,232	95,643	69,074	53,888	45,872	45,573	43,052	43,835	49,294	63,875	103,298
50%	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613
25%	68,709	52,439	51,093	25,146	22,903	24,852	24,880	32,142	28,951	25,073	33,298	46,418
10%	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349
5%	25,191	36,289	25,970	12,359	12,544	18,485	17,433	25,655	21,899	19,519	22,235	27,205
2%	23,613	30,609	22,343	11,923	10,688	15,139	17,020	17,454	14,868	15,901	14,125	22,458
0%	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755

Site #: 06030005 Name: Pickwick Lake Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 32,790 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667
100%	145,014	203,689	159,623	162,179	155,290	113,336	104,859	55,886	82,527	101,348	117,192	183,668
98%	129,996	176,974	154,623	125,686	147,116	106,332	94,051	53,563	65,036	82,093	104,553	155,571
95%	121,970	145,304	138,811	113,145	115,204	65,456	67,260	52,407	58,152	74,758	92,324	140,941
90%	118,392	130,753	131,835	97,518	91,627	59,246	56,338	50,130	50,116	63,254	87,576	128,503
75%	108,471	112,232	95,643	69,074	53,888	45,872	45,573	43,052	43,835	49,294	63,875	103,298
50%	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613
25%	68,709	52,439	51,093	25,146	22,903	24,852	24,880	32,142	28,951	25,073	33,298	46,418
10%	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349
5%	25,191	36,289	25,970	12,359	12,544	18,485	17,433	25,655	21,899	19,519	22,235	27,205
2%	23,613	30,609	22,343	11,923	10,688	15,139	17,020	17,454	14,868	15,901	14,125	22,458
0%	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755

Monthly Flows (in CFS) for
06030006 - Bear Creek Subbasin

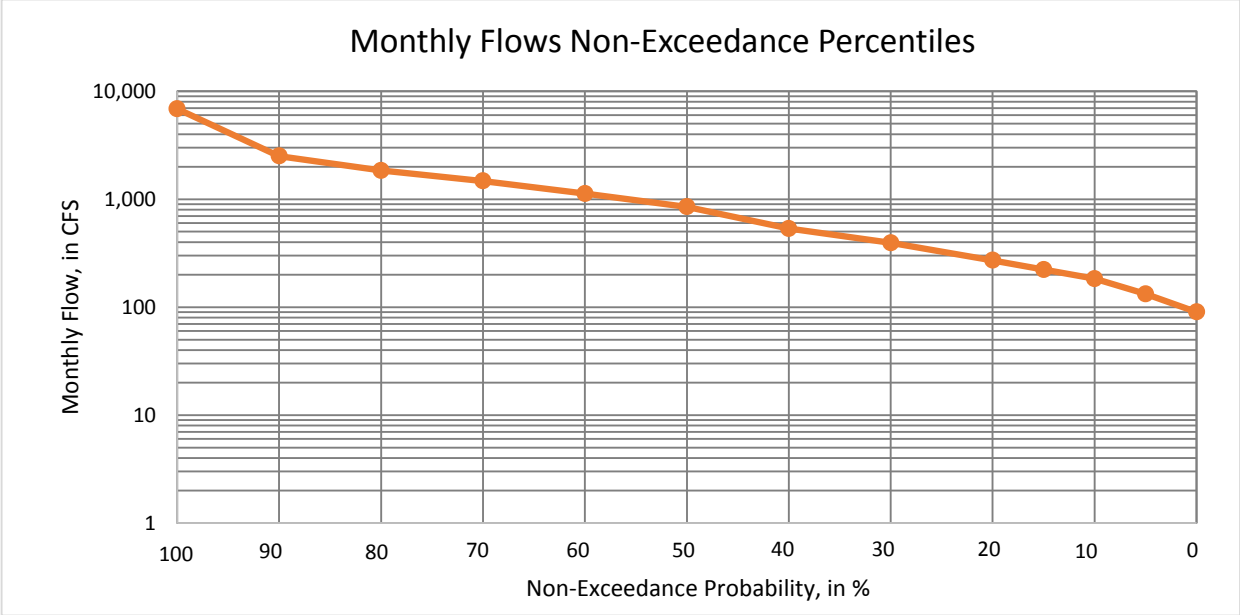
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,078	2,350	5,903	2,258	1,690	1,019	539	716	1,078	2,674	1,425	1,210	2,083
1976	1,918	1,815	2,325	1,088	710	677	476	300	495	343	787	861	978
1977	1,421	945	4,608	2,315	293	243	149	107	356	769	2,464	1,593	1,274
1978	1,497	632	1,501	538	3,069	1,378	198	115	90	181	503	613	864
1979	3,372	1,151	1,838	1,934	850	362	642	334	1,239	910	3,660	1,759	1,504
1980	1,159	826	4,959	3,336	2,377	805	406	170	189	1,277	1,717	505	1,482
1981	257	693	531	675	184	263	490	337	251	1,120	939	584	525
1982	2,587	1,686	702	1,886	686	311	257	472	192	1,365	1,111	3,097	1,195
1983	1,805	1,862	2,260	4,843	3,851	1,479	400	227	328	1,128	1,405	4,271	1,989
1984	1,675	651	1,256	1,687	5,047	481	247	231	104	1,353	1,742	1,211	1,316
1985	525	2,247	382	436	2,445	275	251	380	299	1,297	1,119	749	859
1986	167	495	572	195	397	915	187	119	120	1,089	2,502	3,560	862
1987	1,220	863	2,756	309	205	196	149	107	123	813	1,004	1,039	734
1988	692	481	319	561	135	100	122	105	283	438	1,770	1,973	581
1989	3,846	2,255	3,083	1,040	662	2,168	2,048	334	664	2,221	2,045	1,300	1,805
1990	3,043	3,774	2,152	810	1,339	497	197	133	123	265	883	4,498	1,467
1991	3,931	3,159	3,607	4,702	6,872	2,157	559	217	222	202	1,460	4,780	2,657
1992	946	516	1,128	413	216	463	303	393	512	332	2,116	1,889	770
1993	1,788	881	1,248	1,512	1,070	285	257	243	368	261	1,673	1,464	921
1994	1,604	4,010	2,451	1,898	634	675	991	466	349	228	1,742	1,759	1,382
1995	1,611	2,074	2,547	1,488	1,208	429	270	361	136	176	1,754	1,750	1,145
1996	2,461	1,305	1,814	1,628	480	296	233	200	367	318	2,241	3,905	1,272
1997	2,495	1,798	2,260	544	1,684	4,618	1,240	453	310	559	1,641	1,475	1,586
1998	3,536	2,283	1,712	807	891	393	421	530	186	125	1,177	1,612	1,136
1999	3,594	1,440	1,828	795	1,122	388	477	193	126	120	670	949	976
2000	654	355	565	2,970	352	225	179	153	139	144	1,170	1,602	707
2001	1,995	2,253	1,413	3,041	552	2,085	340	418	742	574	1,344	3,270	1,493
2002	1,945	1,540	1,290	1,456	2,667	295	216	206	402	694	2,853	2,846	1,367
2003	855	2,670	1,717	875	3,906	945	466	445	1,298	930	982	1,141	1,345
2004	1,118	3,627	2,414	272	192	373	372	443	929	1,747	2,341	6,111	1,653
2005	1,475	1,363	801	1,268	286	438	505	345	761	224	1,867	2,015	941
2006	2,618	1,339	450	460	849	191	129	134	113	225	2,302	892	805
2007	1,782	383	227	225	134	97	192	99	104	100	425	477	355
2008	301	862	898	944	1,164	449	144	137	129	131	871	3,310	780
2009	1,451	394	1,740	1,253	1,637	484	145	137	1,487	2,172	2,181	2,362	1,294
2010	2,106	1,591	629	403	1,025	431	218	326	149	204	1,166	904	758
2011	1,388	498	1,678	3,793	1,702	436	313	247	640	254	1,268	2,026	1,189
2012	2,225	1,081	685	191	223	150	132	164	378	624	953	1,439	687
2013	3,074	1,002	1,304	1,229	1,499	391	965	282	285	132	1,160	1,729	1,092
2014	947	1,108	452	993	767	877	420	307	176	873	1,511	1,953	863

Non-Exceedance Percentiles

06030006 - Bear Creek Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	167	355	227	191	134	97	122	99	90	100	425	477	355
5th %	299	393	378	224	181	148	132	107	104	125	661	580	579
10th %	641	494	452	305	204	195	145	114	120	132	862	735	705
15th %	831	513	560	411	222	240	149	131	123	171	931	887	755
20th %	947	647	618	455	291	273	185	136	129	198	976	940	778
30th %	1,338	862	869	641	530	306	210	168	168	227	1,148	1,211	863
40th %	1,488	1,049	1,277	849	700	390	249	212	210	297	1,232	1,470	962
Median	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671	1,140
60th %	1,929	1,560	1,770	1,343	1,139	470	383	315	352	724	1,691	1,811	1,273
70th %	2,295	1,829	2,185	1,646	1,540	675	434	339	385	916	1,759	2,018	1,352
80th %	2,703	2,253	2,422	1,999	1,837	921	493	398	644	1,158	2,129	3,132	1,484
90th %	3,542	2,719	3,135	3,070	3,147	1,540	674	454	944	1,403	2,353	3,942	1,668
Maximum	4,078	4,010	5,903	4,843	6,872	4,618	2,048	716	1,487	2,674	3,660	6,111	2,657
Average	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012	1,167

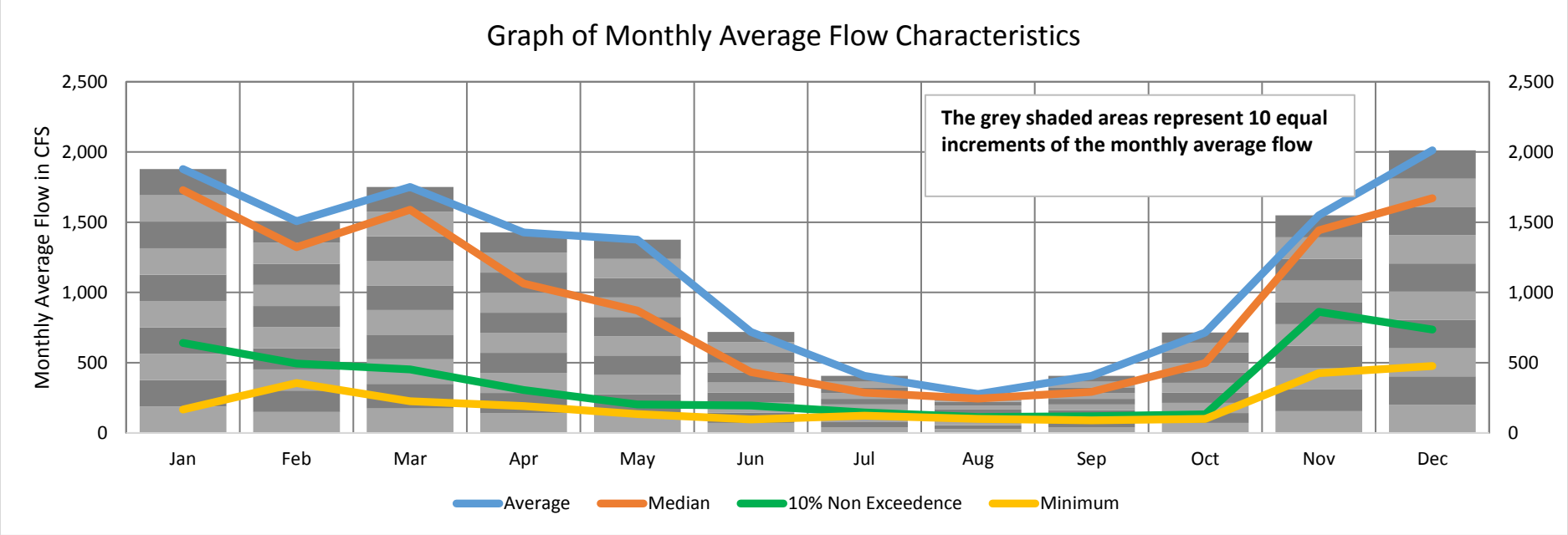
	Flows in CFS
Minimum	90.1
5th %	132
10th %	183
15th %	223
20th %	272
30th %	394
40th %	535
Median	849
60th %	1,124
70th %	1,475
80th %	1,843
90th %	2,506
Maximum	6,872
Average	1,169



Q10/Q50	0.22
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.14
Q5/DA	0.20
Q10/DA	0.27
Q15/DA	0.33
Q20/DA	0.41
Q30/DA	0.59
Q40/DA	0.80
Q50/DA	1.27
Q60/DA	1.69
Q70/DA	2.21
Q80/DA	2.76
Q90/DA	3.76
Qmax/DA	10.30

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

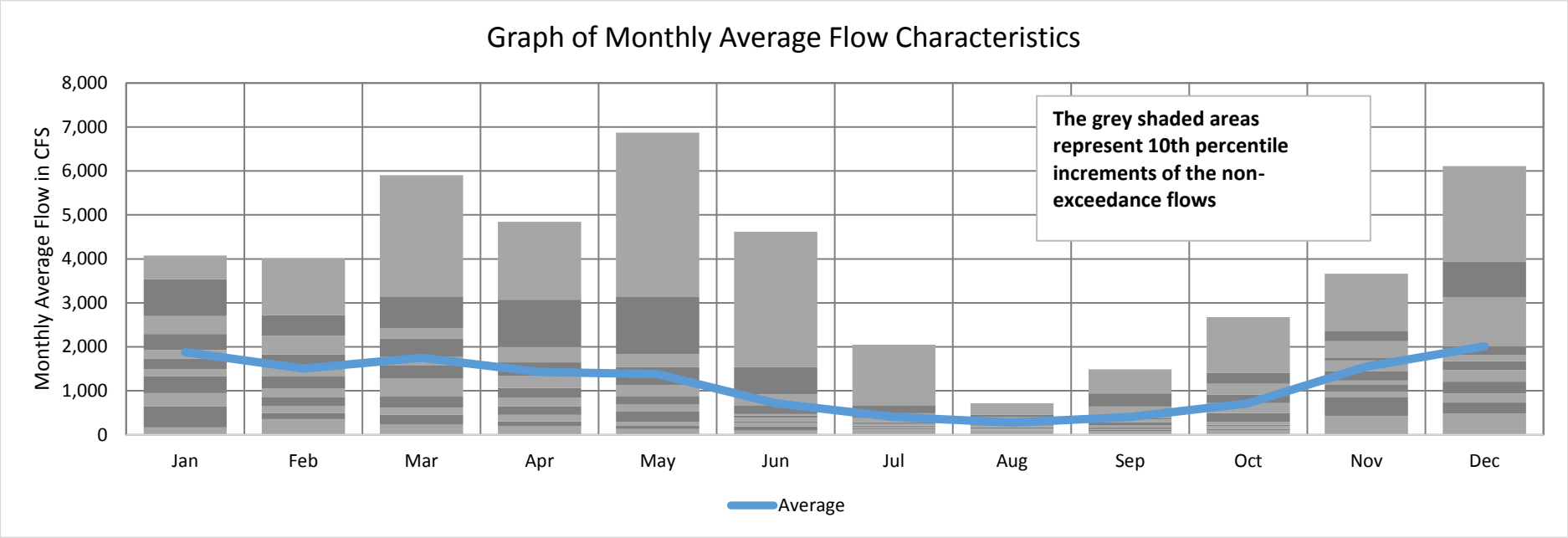
Site #: 06030006 Name: Bear Creek Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012
100%	4,078	4,010	5,903	4,843	6,872	4,618	2,048	716	1,487	2,674	3,660	6,111
98%	3,963	3,826	5,167	4,733	5,449	2,707	1,418	571	1,339	2,321	3,031	5,073
95%	3,850	3,635	4,626	3,839	3,963	2,158	1,003	475	1,242	2,175	2,519	4,512
90%	3,542	2,719	3,135	3,070	3,147	1,540	674	454	944	1,403	2,353	3,942
75%	2,518	2,117	2,276	1,889	1,685	823	476	365	499	1,097	1,911	2,483
50%	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671
25%	1,148	793	698	542	386	293	196	149	139	219	1,084	1,116
10%	641	494	452	305	204	195	145	114	120	132	862	735
5%	299	393	378	224	181	148	132	107	104	125	661	580
2%	238	377	299	194	135	99	128	104	101	115	486	499
0%	167	355	227	191	134	97	122	99	90	100	425	477

Site #: 06030006 Name: Bear Creek Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 667 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012
100%	4,078	4,010	5,903	4,843	6,872	4,618	2,048	716	1,487	2,674	3,660	6,111
98%	3,963	3,826	5,167	4,733	5,449	2,707	1,418	571	1,339	2,321	3,031	5,073
95%	3,850	3,635	4,626	3,839	3,963	2,158	1,003	475	1,242	2,175	2,519	4,512
90%	3,542	2,719	3,135	3,070	3,147	1,540	674	454	944	1,403	2,353	3,942
75%	2,518	2,117	2,276	1,889	1,685	823	476	365	499	1,097	1,911	2,483
50%	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671
25%	1,148	793	698	542	386	293	196	149	139	219	1,084	1,116
10%	641	494	452	305	204	195	145	114	120	132	862	735
5%	299	393	378	224	181	148	132	107	104	125	661	580
2%	238	377	299	194	135	99	128	104	101	115	486	499
0%	167	355	227	191	134	97	122	99	90	100	425	477

Appendix L

Monthly Flow Assessment Site Summaries

The summaries for each of the following 186 monthly flow assessment sites include four pages as follows:

First page – Observed and estimated monthly flows in a tabular format from January 1975 through December 2014.

Second page – Monthly and annual streamflow percentiles in a tabular format along with a graphical representation of non-exceedance values.

Third page – A graph of selected monthly streamflow characteristics for each site and each monthly average streamflow for that site divided into 10 equal increments. Above the graph, the drainage area for the site is listed. Under the graph is a tabular summary of selected monthly characteristics for the site.

Fourth page - A graph of the average monthly streamflow for the site as well as 10th percentile increments of the non-exceedance flows. Under the graph is the tabular summary of selected monthly characteristics for the site.

The monthly streamflows and percentiles are in units of cubic feet per second (CFS).

(CFS – cubic feet per second; DA – drainage area, in square miles; CFSM – cubic feet per second per square mile; Q5 – 5th non-exceedance flow percentile)

Monthly Flows (in CFS) for
02339225 - Wehadkee Creek near Rock Mills, Ala.

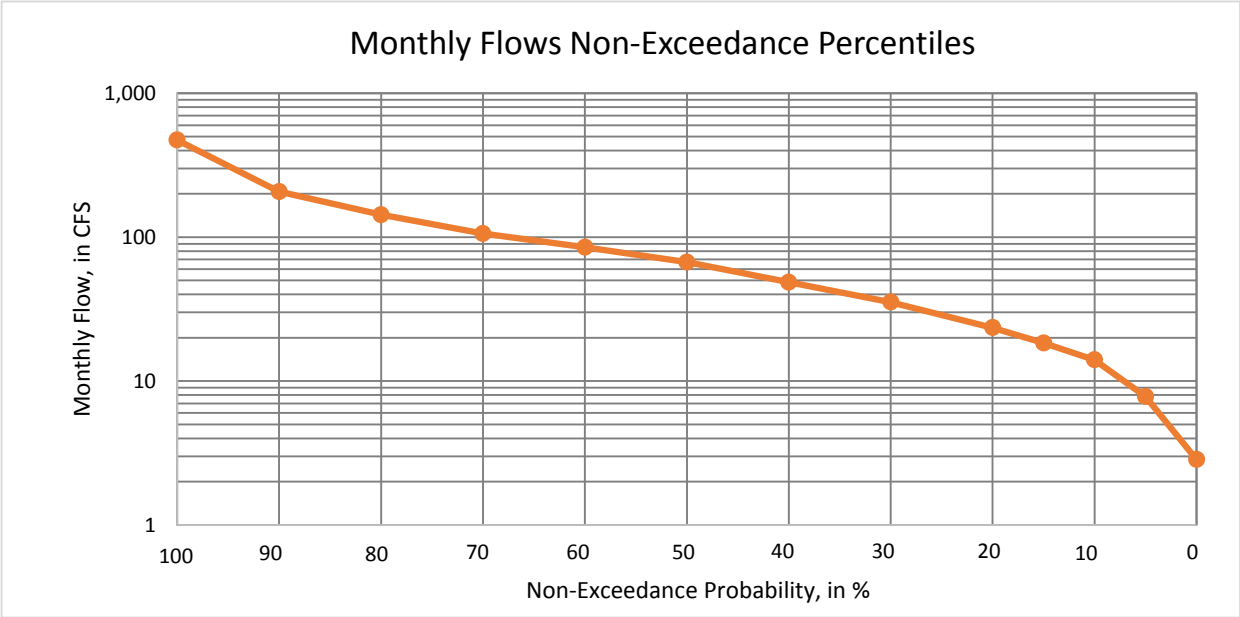
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975										155	117	104	
1976	255	123	444	183	140	85	104	32	25	34	43	103	132
1977	149	87	318	240	66	37	21	18	19	62	148	68	103
1978	240	91	105	112	141	87	22	52	13	8	17	47	78
1979	101	170	162	352	91	43	41	43	74	42	104	51	105
1980	145	135	307	191	197	75	39	25	27	37	43	44	105
1981	35	191	109	111	90	31	28	15	6	11	16	48	57
1982	109	354	87	180	93	75	62	51	25	36	75	234	113
1983	129	172	276	271	105	82	35	24	27	19	105	239	123
1984	138	145	145	126	111	33	66	81	20	23	29	54	81
1985	56	159	66	52	75	22	66	44	26	63	49	76	62
1986	48	69	115	46	33	18	7	6	24	18	88	72	45
1987	128	132	140	81	48	61	79	23	11	9	21	37	64
1988	85	105	48	84	35	11	42	10	235	37	65	44	66
1989	60	86	172	196	57	289	277	75	81	98	56	158	134
1990	341	409	473	114	73	42	21	14	9	17	21	37	130
1991	67	133	149	147	181	140	102	53	40	29	126	95	105
1992	161	207	161	115	49	52	30	42	32	31	227	229	111
1993	239	157	215	144	101	55	27	19	9	10	27	41	87
1994	65	109	143	129	60	41	182	84	96	67	74	91	95
1995	85	290	224	105	47	36	15	16	18	225	158	108	109
1996	235	308	328	112	64	40	21	34	34	28	49	83	110
1997	178	207	289	106	72	126	88	44	27	53	80	114	115
1998	170	337	387	215	122	63	39	53	19	20	23	33	122
1999	80	97	99	50	47	44	70	11	4	11	16	23	46
2000	49	72	85	133	28	13	5	7	6	6	39	29	39
2001	81	84	290	135	51	72	34	17	18	11	13	27	69
2002	110	67	70	67	80	20	18	8	80	73	176	219	82
2003	101	169	192	142	387	216	207	88	35	29	78	76	143
2004	81	153	67	117	48	51	56	26	139	42	152	140	89
2005	89	149	211	217	88	79	323	96	31	30	42	75	119
2006	143	207	147	93	69	26	20	13	23	21	87	44	73
2007	92	69	59	39	17	7	17	4	3	3	4	12	27
2008	27	98	111	75	58	13	6	10	4	5	8	69	40
2009	65	53	175	124	97	31	17	14	195	170	209	320	123
2010	210	238	252	95	142	66	36	17	6	19	32	40	95
2011	45	87	190	105	32	18	16	4	15	6	22	56	49
2012	119	56	145	37	39	14	7	7	8	8	7	50	42
2013	95	210	140	143	138	80	98	78	33	25	35	200	106
2014	120	125	117	288	87	60	27	18	9	14	49	120	86

Non-Exceedance Percentiles

02339225 - Wehadkee Creek near Rock Mills, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	27	53	48	37	17	7	5	4	3	3	4	12	27
5th %	44	66	65	45	31	13	7	6	4	6	8	27	40
10th %	48	69	70	52	35	14	14	7	6	7	16	32	44
15th %	59	80	86	73	44	18	17	9	7	9	17	37	48
20th %	65	86	103	82	48	21	18	11	9	11	21	41	60
30th %	81	97	116	105	53	32	21	15	14	16	28	46	71
40th %	89	124	143	112	64	40	27	17	19	20	41	53	83
Median	101	135	149	117	73	44	35	23	24	27	49	71	95
60th %	119	156	175	132	88	59	40	30	26	30	68	79	105
70th %	141	171	213	143	95	70	64	43	32	37	82	103	110
80th %	165	207	281	186	115	79	83	52	37	55	107	124	117
90th %	236	294	320	222	142	94	120	78	84	75	152	220	125
Maximum	341	409	473	352	387	289	323	96	235	225	227	320	143
Average	121	157	185	135	89	60	61	33	39	40	68	93	89

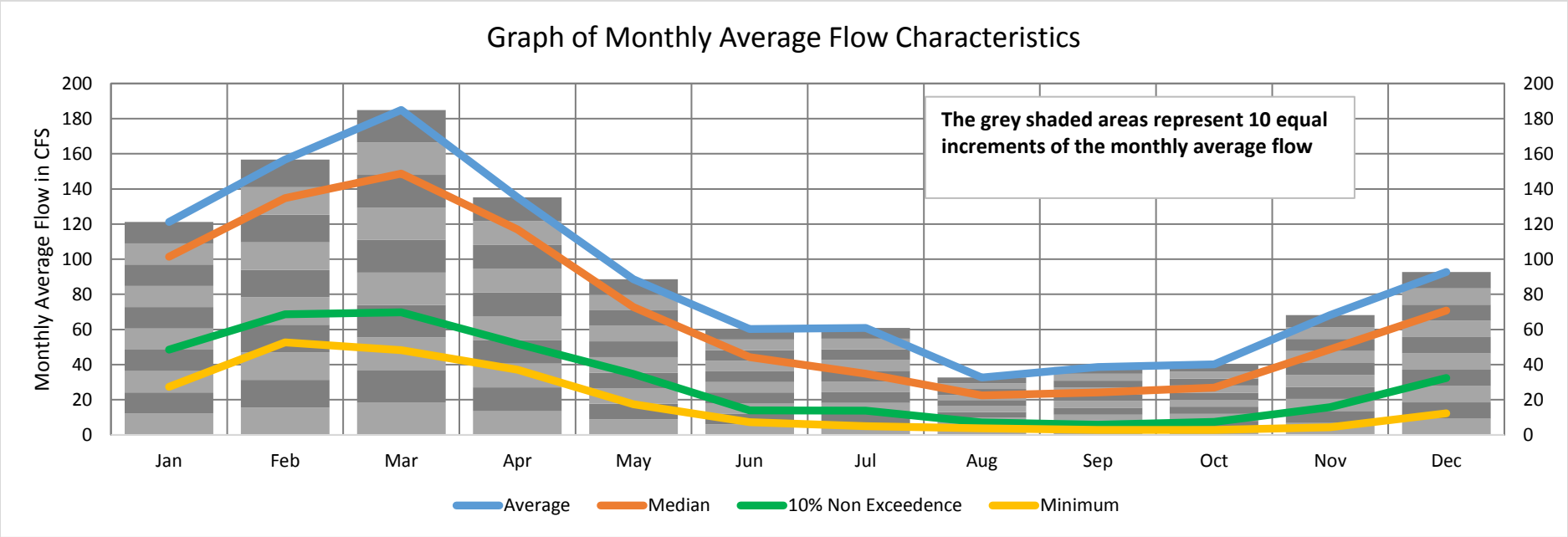
	Flows in CFS
Minimum	2.8
5th %	8
10th %	14
15th %	18
20th %	23
30th %	35
40th %	49
Median	67
60th %	85
70th %	106
80th %	143
90th %	207
Maximum	473
Average	90



Q10/Q50	0.21
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.05
Q5/DA	0.13
Q10/DA	0.23
Q15/DA	0.31
Q20/DA	0.39
Q30/DA	0.59
Q40/DA	0.81
Q50/DA	1.11
Q60/DA	1.41
Q70/DA	1.76
Q80/DA	2.38
Q90/DA	3.44
Qmax/DA	7.85

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

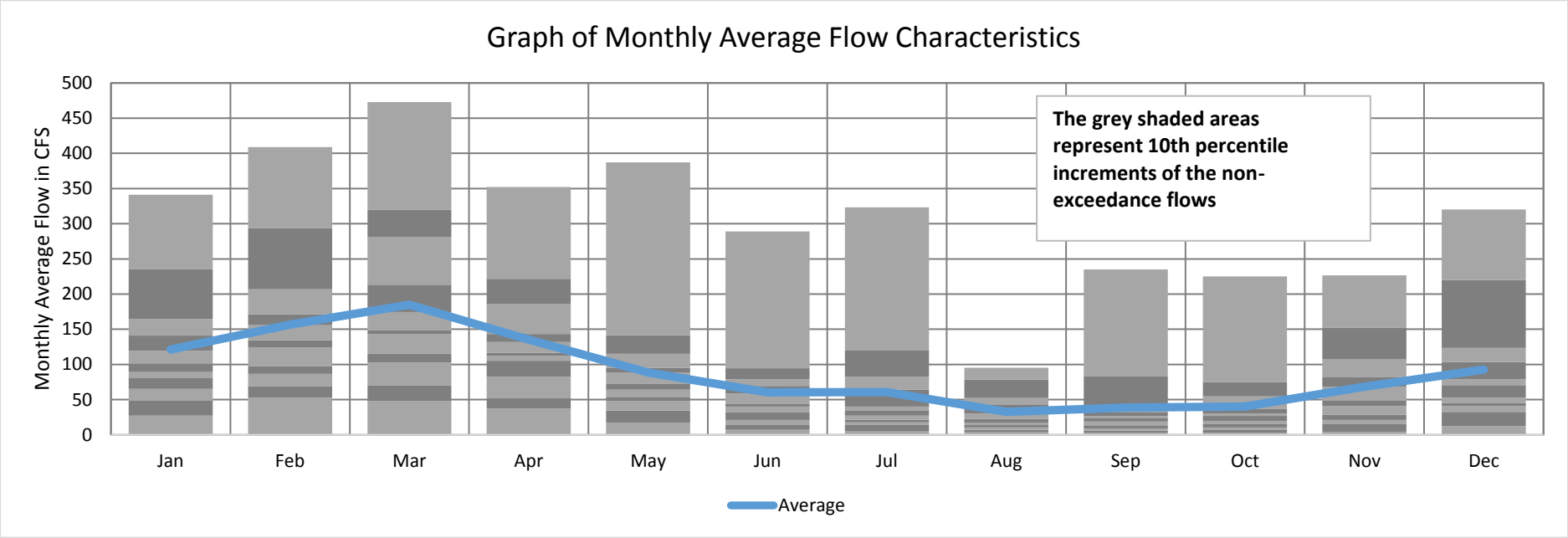
Site #: 02339225 Name: Wehadkee Creek near Rock Mills, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	121	157	185	135	89	60	61	33	39	40	68	93
100%	341	409	473	352	387	289	323	96	235	225	227	320
98%	276	367	451	304	243	233	288	89	205	182	213	257
95%	242	339	393	273	182	147	214	84	145	156	177	234
90%	236	294	320	222	142	94	120	78	84	75	152	220
75%	147	199	238	164	103	75	68	47	34	42	92	110
50%	101	135	149	117	73	44	35	23	24	27	49	71
25%	73	89	110	94	49	29	20	13	9.7	11	23	44
10%	48	69	70	52	35	14	14	7.1	5.8	7.5	16	32
5%	44	66	65	45	31	13	7.0	5.6	4.4	5.7	7.9	27
2%	33	55	57	38	25	10	6.0	4.1	4.0	4.8	6.8	20
0%	27	53	48	37	17	7.2	5.0	3.7	2.8	2.9	4.4	12

Site #: 02339225 Name: Wehadkee Creek near Rock Mills, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 60 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	121	157	185	135	89	60	61	33	39	40	68	93
100%	341	409	473	352	387	289	323	96	235	225	227	320
98%	276	367	451	304	243	233	288	89	205	182	213	257
95%	242	339	393	273	182	147	214	84	145	156	177	234
90%	236	294	320	222	142	94	120	78	84	75	152	220
75%	147	199	238	164	103	75	68	47	34	42	92	110
50%	101	135	149	117	73	44	35	23	24	27	49	71
25%	73	89	110	94	49	29	20	13	9.7	11	23	44
10%	48	69	70	52	35	14	14	7.1	5.8	7.5	16	32
5%	44	66	65	45	31	13	7.0	5.6	4.4	5.7	7.9	27
2%	33	55	57	38	25	10	6.0	4.1	4.0	4.8	6.8	20
0%	27	53	48	37	17	7.2	5.0	3.7	2.8	2.9	4.4	12

Monthly Flows (in CFS) for
02339495 - Oseligee Creek near Lanett, Ala.

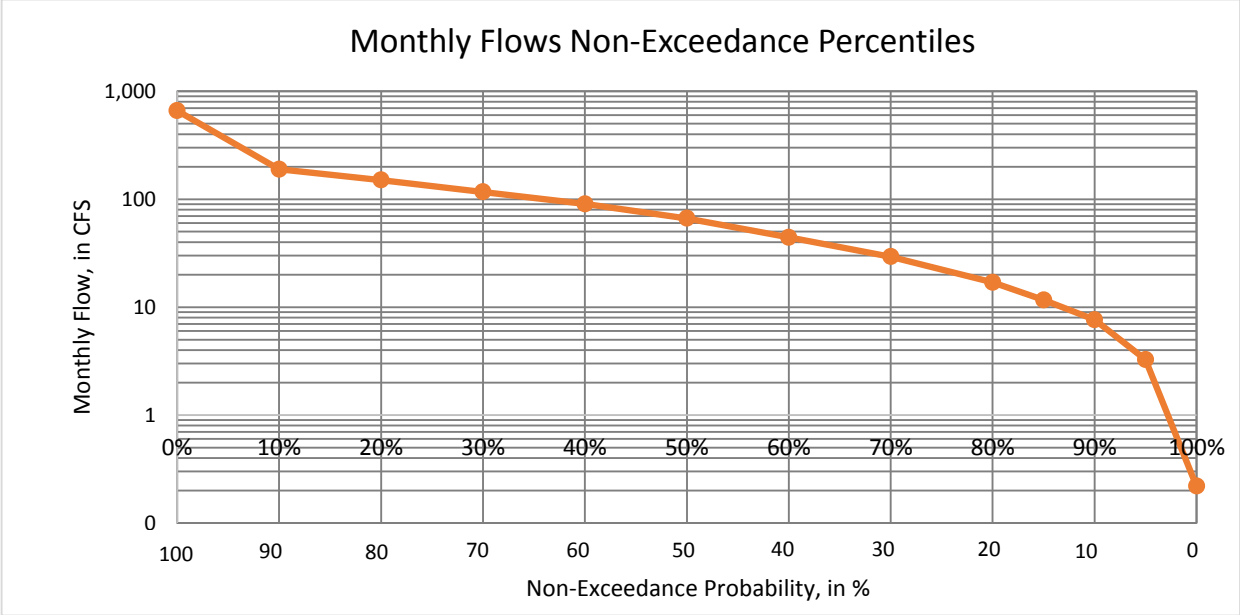
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	176	232	241	209	103	85	130	150	53	167	97	104	145
1976	139	130	188	167	130	106	69	27	20	133	145	168	118
1977	149	101	188	135	42	13	12	91	38	42	111	98	85
1978	232	158	184	135	193	87	24	86	16	9	18	48	99
1979	128	232	196	247	109	38	36	18	65	29	59	79	102
1980	126	140	253	214	189	90	40	17	10	15	25	33	96
1981	34	167	98	197	27	8	8	17	4	4	6	53	51
1982	128	194	120	202	109	17	83	76	21	20	69	212	104
1983	175	182	246	180	85	46	17	22	67	26	96	192	111
1984	168	152	193	119	91	17	28	60	9	7	11	41	74
1985	54	154	94	66	54	14	47	25	12	10	20	85	52
1986	83	140	205	71	14	7	2	3	30	26	157	133	72
1987	177	212	223	121	82	124	72	30	8	3	20	43	92
1988	150	172	137	121	31	7	51	6	39	12	53	43	68
1989	96	78	166	242	126	186	221	38	37	88	128	159	131
1990	204	204	260	114	98	37	29	15	8	8	12	26	84
1991	93	118	217	124	167	80	60	56	23	12	51	74	90
1992	180	188	177	92	25	26	23	43	21	33	226	170	100
1993	159	149	188	132	59	17	11	33	11	10	79	86	77
1994	114	195	161	85	48	46	273	71	59	84	80	92	109
1995	133	186	176	78	27	16	6	4	3	154	109	179	89
1996	187	181	231	150	71	33	20	28	39	40	35	95	92
1997	149	198	132	142	96	128	62	26	8	17	113	230	108
1998	195	261	251	148	62	25	17	11	40	80	34	48	97
1999	88	142	128	59	40	47	46	17	7	35	25	53	57
2000	94	71	158	75	12	3	1	1	3	1	17	52	41
2001	59	45	280	175	22	51	11	7	14	4	8	20	58
2002	34	79	106	94	16	3	2	0	2	2	33	69	36
2003	68	159	194	147	93	100	177	101	36	43	56	84	105
2004	93	161	77	44	58	24	16	9	111	25	101	97	67
2005	88	180	230	251	94	174	180	142	36	50	56	55	127
2006	59	137	149	99	55	9	5	18	18	22	107	56	60
2007	170	99	100	59	14	9	4	0	0	1	11	29	41
2008	62	120	84	63	41	5	1	67	14	22	30	109	51
2009	107	68	225	202	80	27	14	32	67	148	287	403	139
2010	247	247	306	110	107	49	12	11	1	3	14	32	94
2011	36	90	137	66	10	3	5	0	5	5	33	44	36
2012	108	121	89	73	46	17	2	1	1	0	6	50	42
2013	45	661	116	88	132	34	160	32	7	5	13	121	114
2014	93	149	159	265	57	73	44	15	34	22	34	95	86

Non-Exceedance Percentiles

02339495 - Oseligee Creek near Lanett, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	34	45	77	44	10	3	1	0	0	0	6	20	36
5th %	36	71	89	59	14	3	2	0	1	1	8	29	40
10th %	53	79	97	66	16	7	2	1	3	3	11	33	42
15th %	59	97	105	70	24	8	5	4	4	4	13	43	51
20th %	67	115	119	74	27	9	6	7	6	5	16	44	56
30th %	91	135	137	91	42	16	11	14	8	8	24	51	68
40th %	95	146	160	112	54	21	16	17	12	12	33	55	81
Median	120	156	181	123	60	30	23	24	17	21	43	82	89
60th %	135	169	190	138	83	41	38	29	22	25	57	93	95
70th %	153	183	209	155	94	49	48	34	36	33	85	100	100
80th %	175	195	230	198	107	85	70	62	39	45	107	138	108
90th %	188	232	251	216	130	108	161	86	60	93	130	181	119
Maximum	247	661	306	265	193	186	273	150	111	167	287	403	145
Average	122	166	177	134	73	47	51	35	25	35	65	96	85

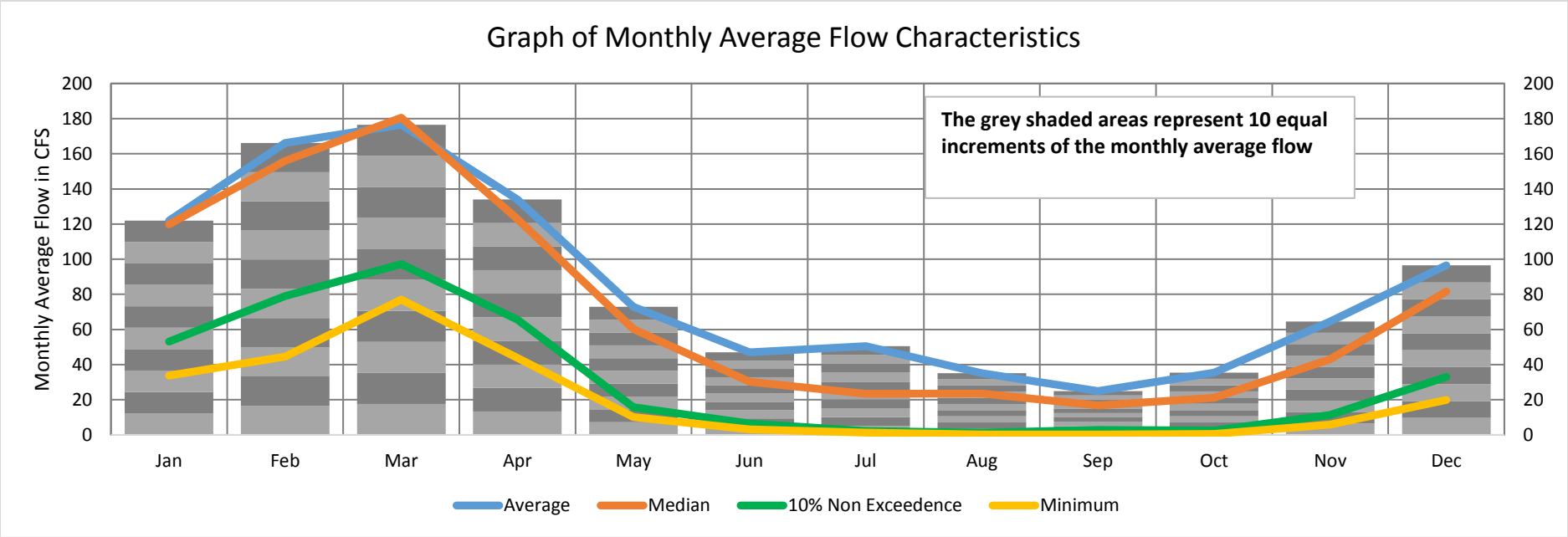
	Flows in CFS
Minimum	0.2
5th %	3
10th %	8
15th %	12
20th %	17
30th %	29
40th %	44
Median	66
60th %	90
70th %	117
80th %	150
90th %	189
Maximum	661
Average	85



Q10/Q50	0.11
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.00
Q5/DA	0.04
Q10/DA	0.09
Q15/DA	0.13
Q20/DA	0.20
Q30/DA	0.34
Q40/DA	0.51
Q50/DA	0.77
Q60/DA	1.05
Q70/DA	1.35
Q80/DA	1.74
Q90/DA	2.19
Qmax/DA	7.64

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

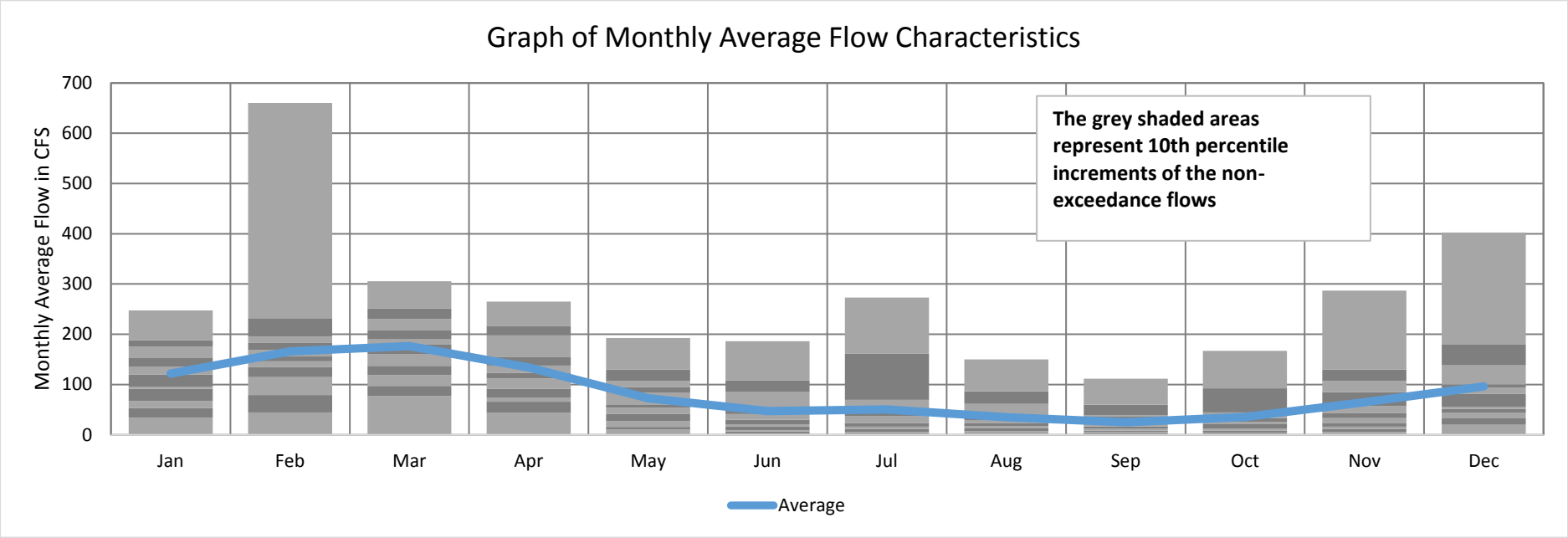
Site #: 02339495 Name: Oseligee Creek near Lanett, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	122	166	177	134	73	47	51	35	25	35	65	96
100%	247	661	306	265	193	186	273	150	111	167	287	403
98%	236	349	286	254	190	176	233	144	77	157	240	268
95%	205	247	261	247	168	130	182	103	67	148	160	213
90%	188	232	251	216	130	108	161	86	60	93	130	181
75%	169	189	223	177	99	74	60	46	37	41	98	112
50%	120	156	181	123	60	30	23	24	17	21	43	82
25%	86	121	131	83	38	14	10	11	7.5	6.3	19	48
10%	53	79	97	66	16	6.5	2.2	1.3	2.8	2.6	11	33
5%	36	71	89	59	14	3.4	1.8	0.4	0.7	1.4	7.6	29
2%	34	63	82	56	12	3.2	1.3	0.4	0.5	1.0	6.3	25
0%	34	45	77	44	10	3.2	1.3	0.3	0.2	0.5	5.8	20

Site #: 02339495 Name: Oseligee Creek near Lanett, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 86 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	122	166	177	134	73	47	51	35	25	35	65	96
100%	247	661	306	265	193	186	273	150	111	167	287	403
98%	236	349	286	254	190	176	233	144	77	157	240	268
95%	205	247	261	247	168	130	182	103	67	148	160	213
90%	188	232	251	216	130	108	161	86	60	93	130	181
75%	169	189	223	177	99	74	60	46	37	41	98	112
50%	120	156	181	123	60	30	23	24	17	21	43	82
25%	86	121	131	83	38	14	10	11	7.5	6.3	19	48
10%	53	79	97	66	16	6.5	2.2	1.3	2.8	2.6	11	33
5%	36	71	89	59	14	3.4	1.8	0.4	0.7	1.4	7.6	29
2%	34	63	82	56	12	3.2	1.3	0.4	0.5	1.0	6.3	25
0%	34	45	77	44	10	3.2	1.3	0.3	0.2	0.5	5.8	20

Monthly Flows (in CFS) for

02339500 - Chattahoochee River at West Point, Ga. (represents streamflow for 03130002)

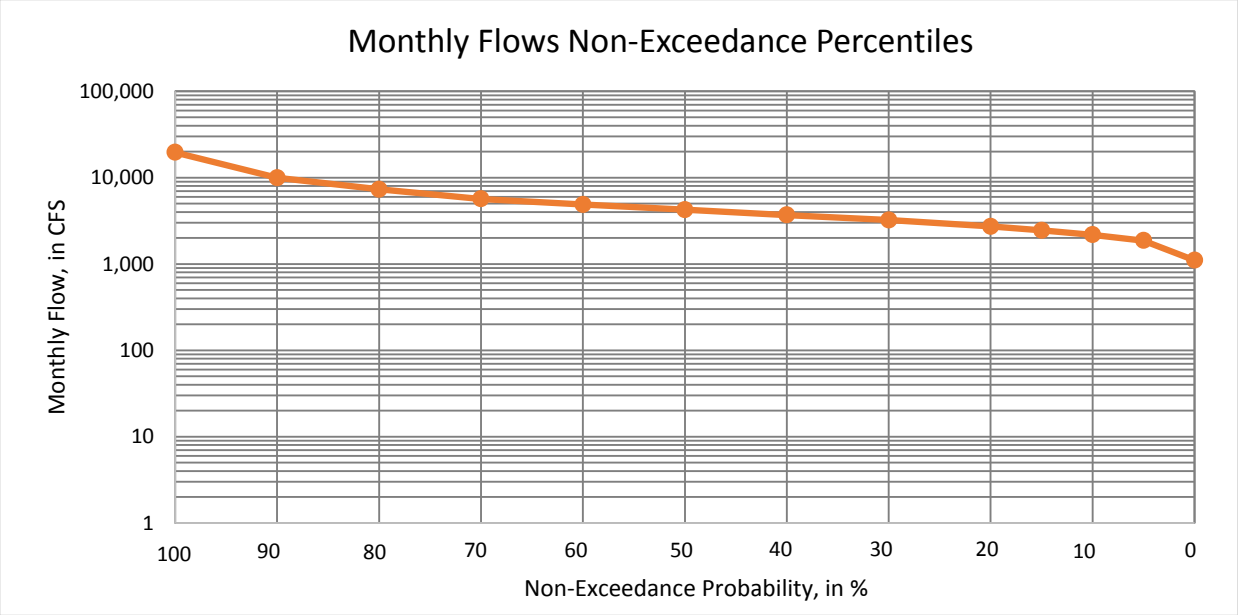
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	7,534	11,690	15,360	12,710	2,558	5,370	4,820	5,751	4,539	7,771	7,458	6,515	7,642
1976	9,349	9,108	13,280	9,426	8,521	7,817	6,169	3,944	3,336	2,363	3,296	6,658	6,932
1977	5,747	3,767	9,745	12,410	4,441	3,450	4,124	4,126	2,466	2,865	8,875	5,310	5,613
1978	10,380	8,729	5,623	2,737	6,809	1,807	2,618	4,084	4,652	3,945	3,137	2,812	4,764
1979	4,584	5,588	7,625	16,480	7,068	5,461	3,514	4,679	3,904	4,860	7,924	4,251	6,311
1980	7,103	8,084	15,110	12,360	10,520	5,176	4,372	5,417	4,526	3,646	2,037	2,721	6,753
1981	2,548	6,419	3,073	3,629	2,516	2,990	3,741	4,723	3,422	2,685	2,603	1,867	3,328
1982	5,663	10,920	3,861	6,116	3,260	3,417	3,287	4,421	3,869	2,543	4,193	10,080	5,096
1983	7,185	7,991	9,935	12,870	5,187	4,842	4,236	4,927	2,686	3,557	4,308	13,050	6,727
1984	8,899	7,571	9,122	7,871	8,998	4,757	4,522	8,890	5,201	2,534	4,116	4,403	6,408
1985	3,289	6,778	3,391	3,441	1,647	3,766	3,411	4,718	5,154	5,319	2,423	3,860	3,912
1986	2,170	3,332	2,500	2,485	2,896	2,735	3,088	1,585	1,606	1,619	3,319	4,401	2,640
1987	6,186	5,273	7,003	4,031	2,127	4,412	5,024	4,720	4,339	2,823	2,824	2,406	4,260
1988	3,852	4,869	1,921	1,961	2,400	3,134	1,672	1,612	2,392	3,088	3,611	3,110	2,785
1989	2,588	2,766	3,193	4,766	2,861	6,729	6,023	5,087	4,900	8,536	6,257	9,175	5,256
1990	11,120	18,980	19,540	7,254	5,128	4,178	4,422	4,398	3,633	3,985	4,358	3,607	7,486
1991	3,805	4,760	5,007	4,153	10,910	6,056	5,638	4,990	6,352	7,022	4,299	5,205	5,696
1992	5,016	6,539	5,675	4,914	3,927	3,273	5,081	4,241	4,781	5,044	10,950	14,880	6,193
1993	13,730	10,520	9,950	7,850	6,823	5,139	4,683	4,356	3,382	3,085	2,763	2,916	6,248
1994	4,792	5,735	5,866	5,066	3,576	3,868	10,560	7,425	7,782	4,768	4,925	8,456	6,078
1995	5,418	12,050	10,730	3,276	4,900	2,373	3,659	4,477	4,269	4,705	8,117	6,168	5,809
1996	9,879	16,090	14,880	6,402	6,135	4,277	4,574	4,186	3,569	3,010	3,856	4,512	6,729
1997	6,123	8,926	11,650	4,904	5,237	6,627	5,186	3,826	5,506	3,821	5,778	7,030	6,201
1998	9,981	15,830	16,710	10,580	7,389	4,990	4,647	4,073	3,507	1,584	3,433	3,319	7,116
1999	3,687	4,545	3,002	2,554	1,423	4,151	2,513	3,755	2,910	1,709	1,816	2,173	2,839
2000	2,387	3,745	3,136	4,126	2,913	3,134	2,375	2,989	2,127	2,109	2,803	3,248	2,916
2001	4,240	3,288	10,260	5,156	2,901	5,489	3,413	3,491	1,935	1,943	2,640	2,021	3,904
2002	3,769	3,651	2,838	3,589	3,367	2,138	2,231	2,221	2,066	2,232	5,231	7,427	3,396
2003	4,024	6,363	10,120	6,165	17,380	13,630	10,540	5,699	3,771	3,466	6,228	7,079	7,889
2004	4,978	7,389	3,505	3,434	2,080	2,530	3,925	3,761	8,965	3,947	7,863	9,601	5,141
2005	5,610	7,118	10,710	9,952	4,553	6,173	14,780	7,677	3,824	1,967	4,265	6,127	6,904
2006	7,905	6,541	5,724	4,868	4,887	3,035	2,307	1,859	2,018	2,228	3,681	3,199	4,007
2007	5,003	3,536	3,198	1,795	2,472	2,215	1,892	2,393	2,370	2,309	2,560	1,488	2,599
2008	1,102	3,439	3,219	2,446	2,385	1,424	1,265	2,154	1,308	1,532	2,888	4,280	2,280
2009	3,587	1,876	7,275	6,442	3,600	2,101	1,809	1,902	11,750	9,245	11,740	16,350	6,494
2010	10,590	12,280	11,340	4,058	7,585	3,733	2,790	2,707	1,595	2,118	2,839	4,057	5,445
2011	3,115	4,413	8,395	7,474	4,239	3,106	2,231	2,858	2,867	2,751	2,905	2,076	3,862
2012	3,844	2,301	4,781	3,330	2,250	1,719	2,365	1,670	1,644	2,284	3,194	2,039	2,623
2013	3,395	7,448	5,306	4,880	10,120	6,345	9,653	6,284	3,604	3,098	3,894	10,880	6,249
2014	8,344	7,220	5,653	9,945	4,499	3,212	3,191	3,210	2,500	2,605	2,602	4,082	4,737

Non-Exceedance Percentiles

02339500 - Chattahoochee River at West Point, Ga. (represents streamflow for 03130002)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488	2,280
5th %	2,376	2,743	2,821	2,422	2,058	1,803	1,802	1,667	1,605	1,617	2,404	2,013	2,621
10th %	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072	2,771
15th %	3,263	3,521	3,184	3,195	2,398	2,349	2,296	2,211	2,059	2,088	2,634	2,371	2,905
20th %	3,549	3,726	3,215	3,413	2,507	2,694	2,373	2,644	2,321	2,206	2,795	2,794	3,383
30th %	3,832	4,696	4,505	3,910	2,900	3,126	2,999	3,407	2,630	2,347	2,900	3,233	3,979
40th %	4,446	5,676	5,641	4,521	3,492	3,359	3,412	3,897	3,364	2,653	3,310	3,978	4,963
Median	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341	5,529
60th %	5,697	7,288	8,686	6,136	4,892	4,331	4,392	4,407	3,842	3,245	4,222	5,247	6,124
70th %	7,128	8,019	10,001	7,320	5,506	5,035	4,658	4,719	4,395	3,858	4,528	6,558	6,268
80th %	8,455	9,390	10,852	9,530	7,132	5,467	5,102	5,009	4,805	4,718	6,234	7,633	6,727
90th %	10,021	12,073	14,903	12,365	9,110	6,373	6,517	5,804	5,591	5,489	7,943	10,160	6,950
Maximum	13,730	18,980	19,540	16,480	17,380	13,630	14,780	8,890	11,750	9,245	11,740	16,350	7,889
Average	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571	5,182

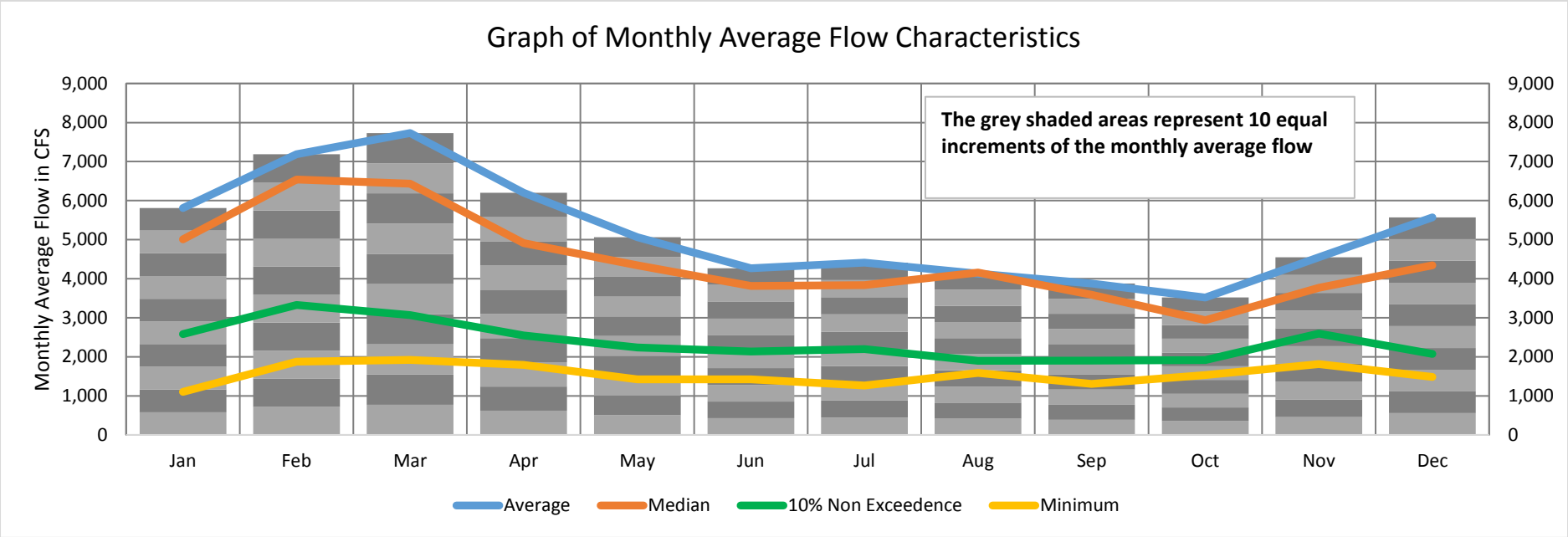
	Flows in CFS
Minimum	1,102.0
5th %	1,867
10th %	2,173
15th %	2,443
20th %	2,718
30th %	3,217
40th %	3,685
Median	4,241
60th %	4,863
70th %	5,667
80th %	7,298
90th %	9,950
Maximum	19,540
Average	5,193



Q10/Q50	0.51
Q10/Q90	0.22
	CFSM*
Qmin/DA	0.31
Q5/DA	0.53
Q10/DA	0.61
Q15/DA	0.69
Q20/DA	0.77
Q30/DA	0.91
Q40/DA	1.04
Q50/DA	1.19
Q60/DA	1.37
Q70/DA	1.60
Q80/DA	2.06
Q90/DA	2.80
Qmax/DA	5.50

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

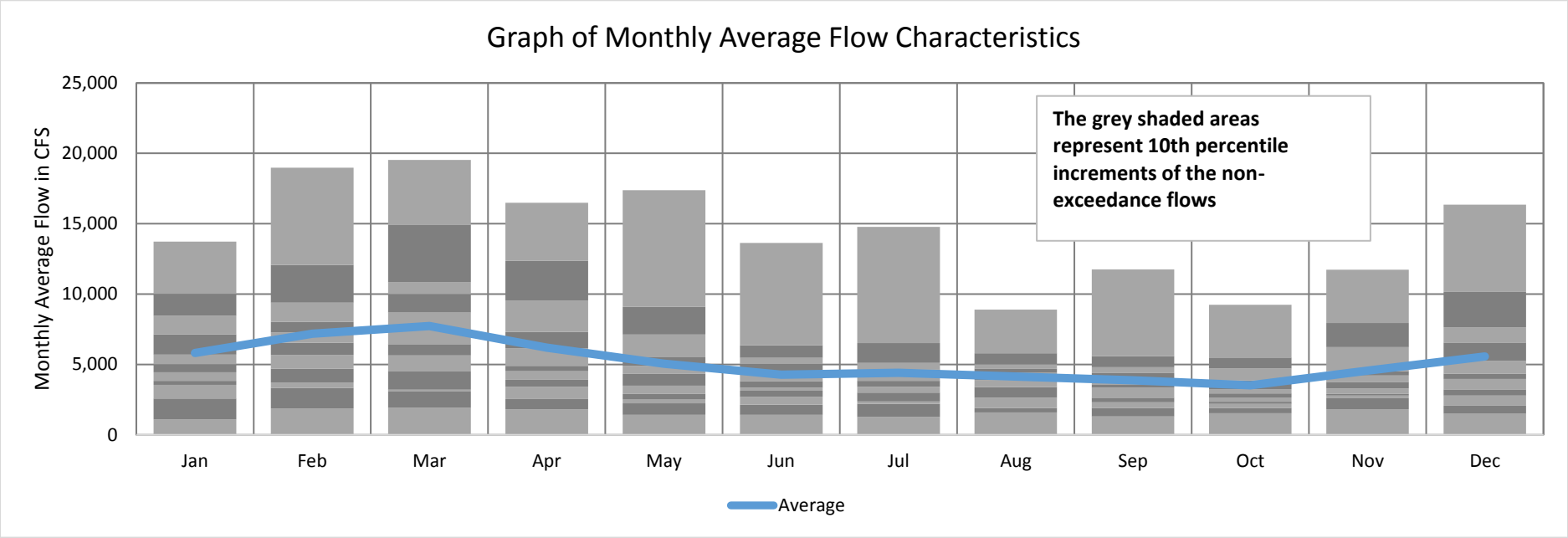
Site #: 02339500 Name: Chattahoochee River at West Point, Ga. (represents streamflow for 03130002)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571
100%	13,730	18,980	19,540	16,480	17,380	13,630	14,780	8,890	11,750	9,245	11,740	16,350
98%	11,694	16,726	17,333	13,664	12,333	9,096	11,488	7,944	9,578	8,692	11,124	15,203
95%	10,617	15,843	15,428	12,718	10,540	6,783	10,541	7,438	7,841	7,809	8,979	13,142
90%	10,021	12,073	14,903	12,365	9,110	6,373	6,517	5,804	5,591	5,489	7,943	10,160
75%	7,627	8,778	10,373	7,855	6,813	5,225	4,871	4,774	4,567	3,957	5,368	7,042
50%	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341
25%	3,749	4,252	3,477	3,552	2,785	3,024	2,592	2,956	2,448	2,271	2,835	3,062
10%	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072
5%	2,376	2,743	2,821	2,422	2,058	1,803	1,802	1,667	1,605	1,617	2,404	2,013
2%	1,935	2,208	2,373	1,924	1,598	1,654	1,582	1,606	1,532	1,573	1,988	1,784
0%	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488

Site #: 02339500 Name: Chattahoochee River at West Point, Ga. (represents streamflow for 03130002)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,550 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,813	7,187	7,730	6,198	5,062	4,269	4,409	4,132	3,876	3,518	4,550	5,571
100%	13,730	18,980	19,540	16,480	17,380	13,630	14,780	8,890	11,750	9,245	11,740	16,350
98%	11,694	16,726	17,333	13,664	12,333	9,096	11,488	7,944	9,578	8,692	11,124	15,203
95%	10,617	15,843	15,428	12,718	10,540	6,783	10,541	7,438	7,841	7,809	8,979	13,142
90%	10,021	12,073	14,903	12,365	9,110	6,373	6,517	5,804	5,591	5,489	7,943	10,160
75%	7,627	8,778	10,373	7,855	6,813	5,225	4,871	4,774	4,567	3,957	5,368	7,042
50%	5,010	6,540	6,435	4,909	4,340	3,817	3,833	4,156	3,587	2,938	3,769	4,341
25%	3,749	4,252	3,477	3,552	2,785	3,024	2,592	2,956	2,448	2,271	2,835	3,062
10%	2,584	3,328	3,066	2,547	2,238	2,134	2,197	1,898	1,906	1,920	2,598	2,072
5%	2,376	2,743	2,821	2,422	2,058	1,803	1,802	1,667	1,605	1,617	2,404	2,013
2%	1,935	2,208	2,373	1,924	1,598	1,654	1,582	1,606	1,532	1,573	1,988	1,784
0%	1,102	1,876	1,921	1,795	1,423	1,424	1,265	1,585	1,308	1,532	1,816	1,488

Monthly Flows (in CFS) for

02341460 - Chattahoochee River at 14th St at Columbus, Ga.

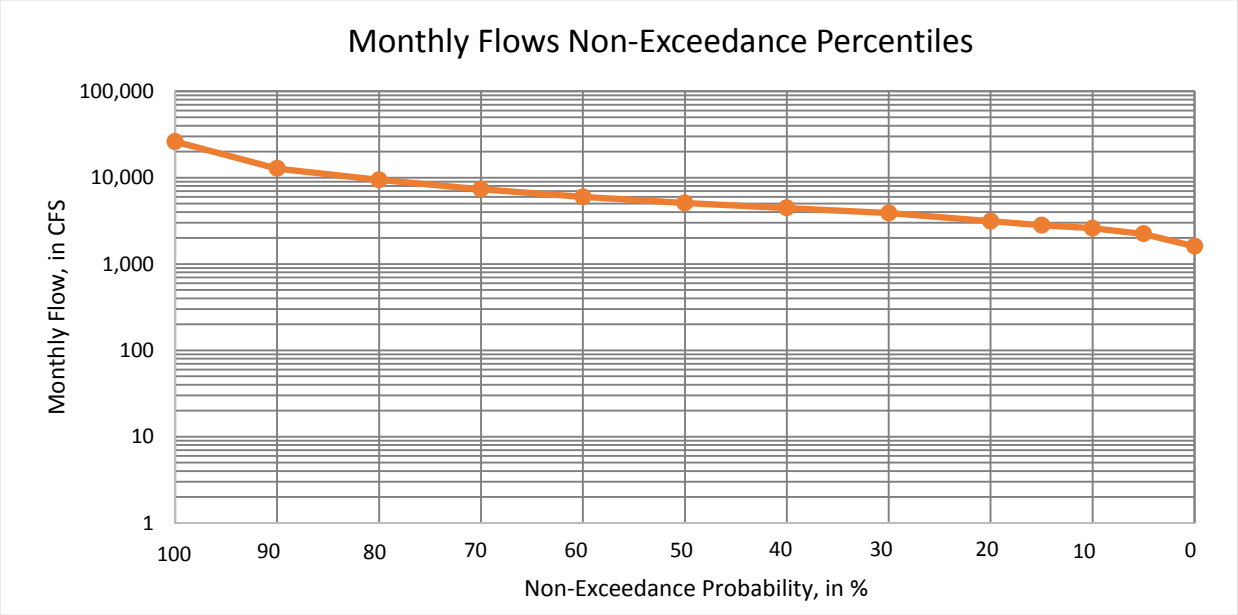
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	10,560	17,820	20,510	19,360	4,024	6,868	6,262	6,525	5,146	9,128	8,368	7,998	10,155
1976	10,520	11,040	15,840	11,940	10,260	9,099	6,790	4,351	3,609	3,311	3,904	9,047	8,300
1977	6,991	5,433	13,620	14,570	4,688	3,465	4,883	5,405	2,540	3,651	10,880	6,416	6,880
1978	14,730	10,720	8,471	4,326	9,679	4,195	4,131	5,719	5,067	4,403	3,816	3,850	6,583
1979	6,797	10,340	10,730	22,270	7,897	5,602	4,790	4,878	4,774	5,341	8,389	4,997	8,024
1980	8,352	10,100	22,030	15,590	13,500	5,816	4,628	6,035	4,980	4,309	2,607	3,414	8,446
1981	3,047	9,431	4,137	6,807	3,171	3,061	4,382	5,445	3,891	3,250	2,834	2,808	4,316
1982	7,934	14,390	5,564	8,839	5,226	4,595	5,597	7,329	5,975	3,755	5,281	14,990	7,413
1983	10,580	11,030	14,840	18,370	6,269	5,739	5,326	5,787	3,227	2,915	4,071	17,420	8,790
1984	11,580	9,656	12,240	9,692	10,260	5,079	4,940	11,660	6,721	2,608	3,778	4,637	7,737
1985	3,986	11,460	5,986	4,617	2,237	4,140	4,562	5,642	5,489	5,754	2,769	5,336	5,123
1986	3,161	5,085	5,495	3,196	3,283	2,500	2,912	1,632	1,976	2,055	5,756	6,261	3,600
1987	8,926	9,186	11,120	5,539	3,033	6,101	6,024	5,387	4,632	2,880	3,213	2,992	5,734
1988	6,331	7,369	3,135	3,441	2,809	3,081	1,894	1,809	3,344	3,038	4,230	3,521	3,638
1989	3,058	3,119	4,934	8,553	3,883	9,611	10,310	5,993	5,930	10,480	8,024	14,560	7,399
1990	16,170	24,380	26,140	9,358	6,521	4,945	4,637	4,443	3,617	4,144	4,480	4,069	9,327
1991	6,131	6,749	8,562	6,083	15,150	8,266	7,267	6,764	7,341	8,230	4,592	6,105	7,622
1992	7,337	9,892	8,025	6,026	4,264	4,126	5,975	5,854	5,951	6,285	16,250	19,050	8,241
1993	17,300	13,040	13,950	10,210	7,977	5,726	4,806	4,862	3,656	4,097	2,701	3,936	7,668
1994	6,411	9,447	10,260	6,989	3,183	3,548	13,470	7,340	8,065	5,798	6,153	9,948	7,550
1995	7,552	15,880	14,270	5,200	5,937	3,002	3,893	4,753	4,400	7,771	9,238	8,074	7,451
1996	12,750	19,820	20,410	8,205	7,002	4,994	5,020	4,435	4,240	3,986	4,246	6,255	8,387
1997	8,375	12,440	14,080	7,775	6,535	7,863	6,110	4,265	5,701	4,873	6,406	10,760	7,906
1998	12,430	21,050	21,450	13,300	8,320	5,858	5,115	4,502	4,145	2,739	3,887	4,142	8,835
1999	4,928	6,285	4,569	3,709	2,540	5,218	3,355	3,962	2,755	2,473	1,964	2,305	3,653
2000	2,756	4,214	4,246	4,558	2,811	2,794	2,230	2,746	2,197	2,024	2,772	3,830	3,089
2001	4,700	4,198	15,510	6,963	2,927	5,154	3,439	3,499	1,792	2,163	2,510	2,245	4,600
2002	3,885	4,032	4,074	3,689	3,043	2,160	2,383	2,242	2,387	3,735	7,011	9,616	4,024
2003	5,260	8,791	13,750	8,974	22,240	16,260	12,820	7,011	4,234	4,470	6,433	8,219	9,891
2004	5,682	9,654	4,450	4,091	2,590	3,288	5,150	5,054	11,530	5,386	9,682	11,330	6,457
2005	6,884	9,251	14,970	13,710	5,575	8,038	18,010	9,391	4,681	3,176	4,043	6,436	8,687
2006	8,527	7,956	7,547	5,034	4,802	3,258	2,298	2,071	2,361	2,760	4,539	3,763	4,557
2007	6,903	4,840	5,010	2,671	2,741	2,597	2,004	2,420	2,625	2,367	2,773	2,016	3,241
2008	2,357	5,626	4,918	3,695	3,121	1,952	1,633	3,135	1,654	1,621	3,023	5,041	3,134
2009	4,342	2,632	11,250	9,302	4,349	2,447	1,600	1,878	12,060	11,460	14,840	22,090	8,217
2010	14,240	15,620	14,970	5,062	8,847	4,049	2,885	2,713	1,684	2,338	2,970	4,539	6,621
2011	3,787	5,880	9,886	8,118	4,143	2,973	2,290	2,576	3,491	2,907	3,217	2,883	4,332
2012	5,350	3,806	5,711	3,843	2,377	2,051	2,752	2,135	1,821	2,481	3,277	2,857	3,205
2013	4,032	12,400	6,970	5,932	10,340	6,967	10,730	7,352	4,275	3,901	2,802	11,060	7,212
2014	8,797	8,579	7,103	12,070	4,868	3,532	3,209	3,202	2,367	2,702	2,893	4,811	5,319

Non-Exceedance Percentiles

02341460 - Chattahoochee River at 14th St at Columbus, Ga.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,357	2,632	3,135	2,671	2,237	1,952	1,600	1,632	1,654	1,621	1,964	2,016	3,089
5th %	3,032	3,772	4,134	3,429	2,532	2,155	1,881	1,875	1,787	2,053	2,602	2,302	3,202
10th %	3,151	4,181	4,430	3,694	2,726	2,495	2,207	2,129	1,961	2,321	2,762	2,852	3,564
15th %	3,870	4,746	4,866	3,823	2,811	2,764	2,297	2,393	2,336	2,457	2,773	2,976	3,651
20th %	4,023	5,363	4,995	4,279	3,012	2,996	2,678	2,686	2,383	2,583	2,828	3,500	4,257
30th %	5,160	6,610	5,904	5,054	3,179	3,279	3,311	3,410	3,085	2,844	3,156	3,910	4,966
40th %	6,251	8,706	7,834	5,988	4,095	3,849	4,282	4,401	3,614	3,121	3,801	4,598	6,533
Median	6,894	9,439	10,073	6,976	4,745	4,395	4,714	4,808	4,190	3,693	4,057	5,189	7,306
60th %	7,705	9,975	11,646	8,344	5,720	5,109	4,972	5,394	4,493	4,030	4,504	6,323	7,579
70th %	8,608	11,033	13,989	9,319	6,675	5,730	5,407	5,739	5,006	4,423	5,875	8,118	7,941
80th %	10,564	12,560	14,970	11,966	8,425	6,254	6,140	6,133	5,747	5,460	7,214	10,110	8,317
90th %	12,899	16,074	20,420	14,672	10,268	8,061	10,352	7,330	6,783	7,817	9,282	14,603	8,794
Maximum	17,300	24,380	26,140	22,270	22,240	16,260	18,010	11,660	12,060	11,460	16,250	22,090	10,155
Average	7,586	9,816	10,768	8,292	6,061	5,000	5,263	4,805	4,408	4,269	5,266	7,091	6,534

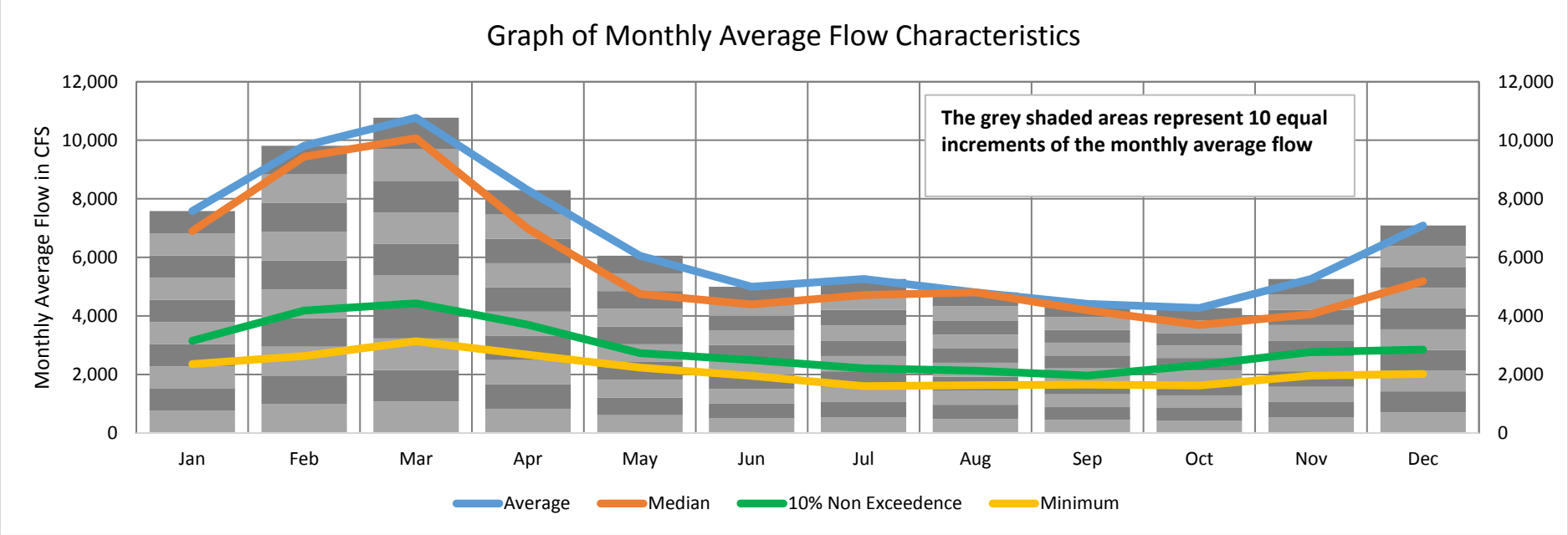
	Flows in CFS
Minimum	1,600.0
5th %	2,228
10th %	2,589
15th %	2,811
20th %	3,121
30th %	3,884
40th %	4,440
Median	5,082
60th %	5,979
70th %	7,340
80th %	9,399
90th %	12,757
Maximum	26,140
Average	6,552



Q10/Q50	0.51
Q10/Q90	0.20
	CFSM*
Qmin/DA	0.35
Q5/DA	0.48
Q10/DA	0.56
Q15/DA	0.61
Q20/DA	0.67
Q30/DA	0.84
Q40/DA	0.96
Q50/DA	1.10
Q60/DA	1.29
Q70/DA	1.59
Q80/DA	2.03
Q90/DA	2.76
Qmax/DA	5.65

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

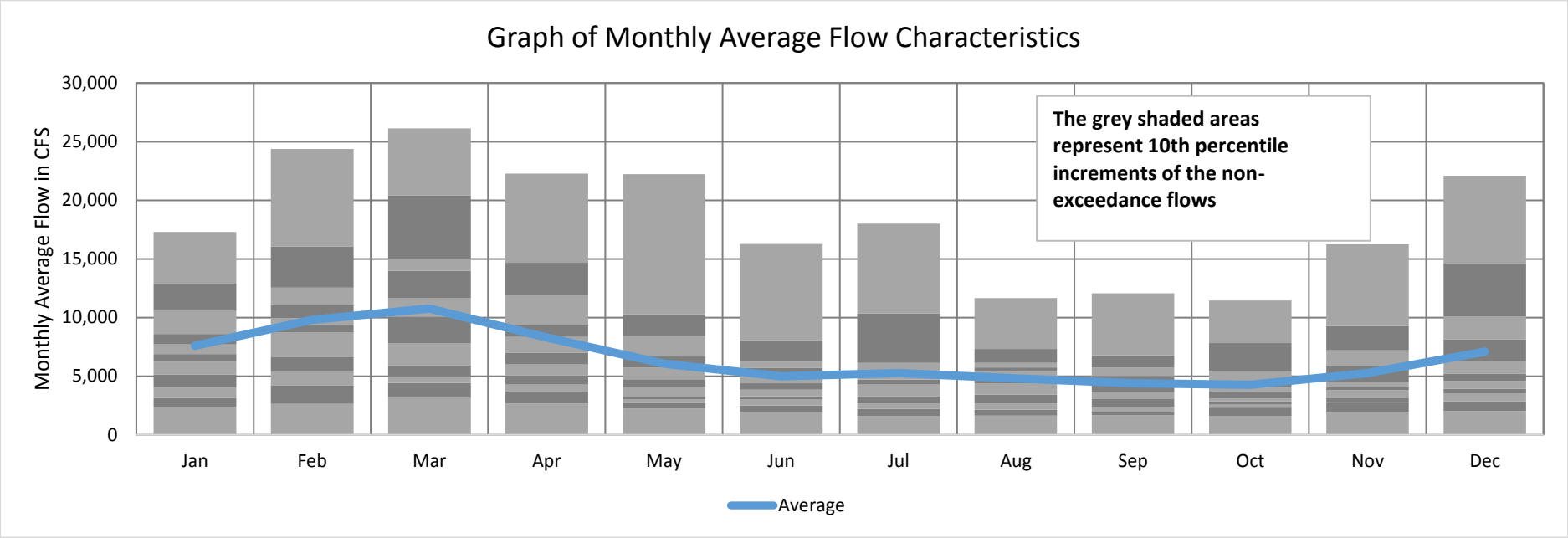
Site #: 02341460 Name: Chattahoochee River at 14th St at Columbus, Ga.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	7,586	9,816	10,768	8,292	6,061	5,000	5,263	4,805	4,408	4,269	5,266	7,091
100%	17,300	24,380	26,140	22,270	22,240	16,260	18,010	11,660	12,060	11,460	16,250	22,090
98%	16,419	21,783	22,934	20,000	16,710	11,074	14,469	9,890	11,647	10,696	15,150	19,719
95%	14,802	19,882	21,479	18,420	13,583	9,125	12,853	7,454	8,238	9,196	11,078	17,502
90%	12,899	16,074	20,420	14,672	10,268	8,061	10,352	7,330	6,783	7,817	9,282	14,603
75%	9,325	11,695	14,413	9,822	7,917	5,827	5,987	5,889	5,232	4,990	6,413	9,189
50%	6,894	9,439	10,073	6,976	4,745	4,395	4,714	4,808	4,190	3,693	4,057	5,189
25%	4,611	5,817	5,547	4,602	3,102	3,076	2,905	3,038	2,604	2,730	2,951	3,813
10%	3,151	4,181	4,430	3,694	2,726	2,495	2,207	2,129	1,961	2,321	2,762	2,852
5%	3,032	3,772	4,134	3,429	2,532	2,155	1,881	1,875	1,787	2,053	2,602	2,302
2%	2,668	3,012	3,867	3,081	2,346	2,029	1,626	1,770	1,677	1,935	2,390	2,195
0%	2,357	2,632	3,135	2,671	2,237	1,952	1,600	1,632	1,654	1,621	1,964	2,016

Site #: 02341460 Name: Chattahoochee River at 14th St at Columbus, Ga.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,630 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	7,586	9,816	10,768	8,292	6,061	5,000	5,263	4,805	4,408	4,269	5,266	7,091
100%	17,300	24,380	26,140	22,270	22,240	16,260	18,010	11,660	12,060	11,460	16,250	22,090
98%	16,419	21,783	22,934	20,000	16,710	11,074	14,469	9,890	11,647	10,696	15,150	19,719
95%	14,802	19,882	21,479	18,420	13,583	9,125	12,853	7,454	8,238	9,196	11,078	17,502
90%	12,899	16,074	20,420	14,672	10,268	8,061	10,352	7,330	6,783	7,817	9,282	14,603
75%	9,325	11,695	14,413	9,822	7,917	5,827	5,987	5,889	5,232	4,990	6,413	9,189
50%	6,894	9,439	10,073	6,976	4,745	4,395	4,714	4,808	4,190	3,693	4,057	5,189
25%	4,611	5,817	5,547	4,602	3,102	3,076	2,905	3,038	2,604	2,730	2,951	3,813
10%	3,151	4,181	4,430	3,694	2,726	2,495	2,207	2,129	1,961	2,321	2,762	2,852
5%	3,032	3,772	4,134	3,429	2,532	2,155	1,881	1,875	1,787	2,053	2,602	2,302
2%	2,668	3,012	3,867	3,081	2,346	2,029	1,626	1,770	1,677	1,935	2,390	2,195
0%	2,357	2,632	3,135	2,671	2,237	1,952	1,600	1,632	1,654	1,621	1,964	2,016

Monthly Flows (in CFS) for
02342500 - Uchee Creek near Fort Mitchell, Ala.

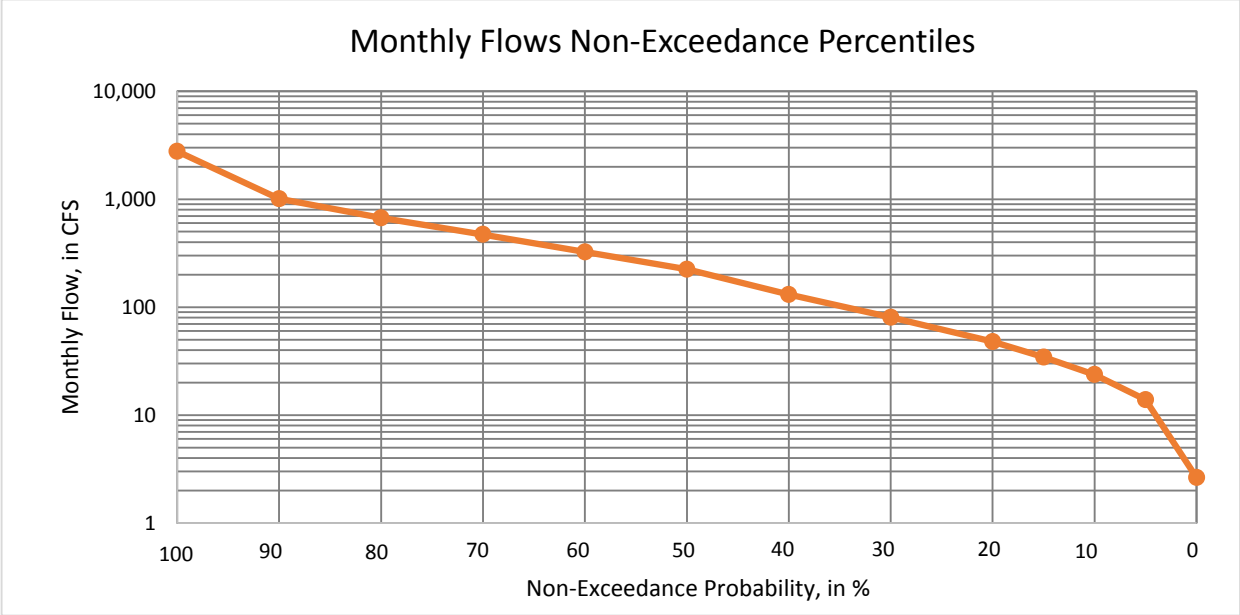
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	880	1,543	1,680	1,237	381	291	532	671	165	807	348	382	739
1976	590	531	997	806	531	395	224	80	60	551	635	811	518
1977	664	367	995	566	126	40	37	320	114	125	421	355	344
1978	1,544	731	956	564	1,049	302	70	296	48	29	53	146	483
1979	523	1,537	1,078	1,785	411	115	107	54	209	87	185	263	521
1980	506	599	1,891	1,287	1,010	314	119	52	33	46	75	98	502
1981	101	804	351	1,095	79	26	28	52	16	14	23	163	224
1982	523	1,059	473	1,145	411	51	285	252	62	61	223	1,264	480
1983	878	944	1,762	926	292	140	53	66	216	78	342	1,038	560
1984	818	682	1,050	464	321	52	83	190	31	23	34	123	321
1985	167	699	332	212	166	43	142	73	39	32	61	292	185
1986	284	600	1,188	230	44	24	10	12	90	77	723	552	318
1987	892	1,270	1,408	476	280	494	236	88	26	13	59	130	443
1988	672	846	582	479	93	23	157	22	117	38	164	129	273
1989	342	263	799	1,695	506	982	1,390	112	111	306	520	740	648
1990	1,169	1,169	2,022	437	351	110	87	45	28	26	36	77	461
1991	331	463	1,329	499	808	268	188	173	67	37	156	244	381
1992	922	995	898	326	73	77	69	131	63	98	1,456	828	491
1993	742	665	998	545	184	51	34	98	35	32	265	297	327
1994	438	1,069	754	291	146	140	2,303	234	187	285	271	326	536
1995	553	975	880	259	81	48	21	15	13	703	412	916	404
1996	992	928	1,524	671	233	99	60	82	116	120	104	337	437
1997	667	1,100	547	616	343	520	198	76	26	52	435	1,512	504
1998	1,068	2,032	1,850	656	196	73	50	36	121	268	102	146	541
1999	308	613	524	185	121	143	139	53	23	103	74	165	202
2000	335	232	728	247	38	13	7	7	12	7	51	160	153
2001	185	135	2,470	877	64	155	35	25	43	17	26	60	343
2002	100	266	395	336	48	14	9	3	9	9	99	224	125
2003	219	740	1,065	647	328	363	896	369	108	131	174	289	443
2004	327	757	257	132	180	71	49	29	423	73	367	347	247
2005	303	920	1,514	1,856	333	864	924	612	108	153	174	170	658
2006	185	578	662	356	170	29	18	20	11	18	112	90	185
2007	452	324	683	351	33	15	11	9	6	5	16	65	164
2008	260	655	499	335	86	14	22	239	39	69	112	478	232
2009	329	350	2,037	1,615	431	312	39	92	257	570	1,460	2,778	859
2010	1,397	1,234	1,010	266	577	137	43	46	25	20	30	73	401
2011	116	416	551	240	29	16	20	24	12	6	18	78	125
2012	373	463	283	162	65	30	20	17	10	9	10	85	125
2013	155	1,918	643	331	179	280	501	256	47	19	35	547	399
2014	470	798	686	1,794	323	97	93	37	34	79	81	240	390

Non-Exceedance Percentiles

02342500 - Uchee Creek near Fort Mitchell, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	100	135	257	132	29	13	7	3	6	5	10	60	125
5th %	115	261	330	184	38	14	10	8	10	7	18	73	125
10th %	166	318	391	228	48	16	17	15	11	9	25	78	163
15th %	185	364	495	246	65	24	20	19	13	14	33	89	185
20th %	252	453	542	265	78	28	22	24	21	18	36	118	219
30th %	321	592	656	334	112	46	36	36	27	25	60	146	304
40th %	339	661	744	405	168	64	50	52	34	35	92	168	344
Median	461	736	927	489	190	98	69	70	45	57	112	254	400
60th %	535	821	1,003	586	304	138	99	84	63	77	174	309	443
70th %	668	953	1,111	712	336	189	147	118	108	99	267	363	485
80th %	879	1,075	1,516	1,105	411	304	227	235	116	135	376	589	518
90th %	1,000	1,297	1,854	1,623	536	405	569	298	189	331	531	928	569
Maximum	1,544	2,032	2,470	1,856	1,049	982	2,303	671	423	807	1,460	2,778	859
Average	544	807	1,009	675	278	181	233	127	79	130	248	425	392

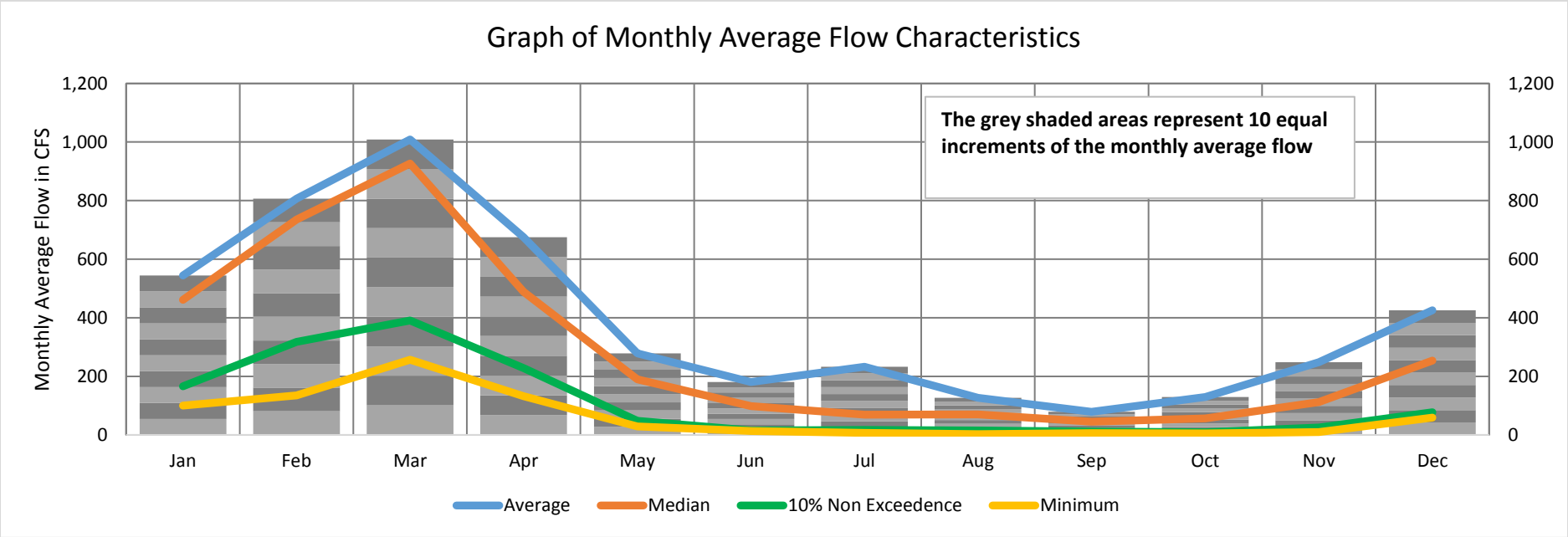
	Flows in CFS
Minimum	2.6
5th %	14
10th %	24
15th %	34
20th %	48
30th %	81
40th %	131
Median	224
60th %	325
70th %	471
80th %	671
90th %	1,010
Maximum	2,778
Average	395



Q10/Q50	0.11
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.04
Q10/DA	0.07
Q15/DA	0.11
Q20/DA	0.15
Q30/DA	0.25
Q40/DA	0.41
Q50/DA	0.70
Q60/DA	1.01
Q70/DA	1.46
Q80/DA	2.08
Q90/DA	3.14
Qmax/DA	8.63

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

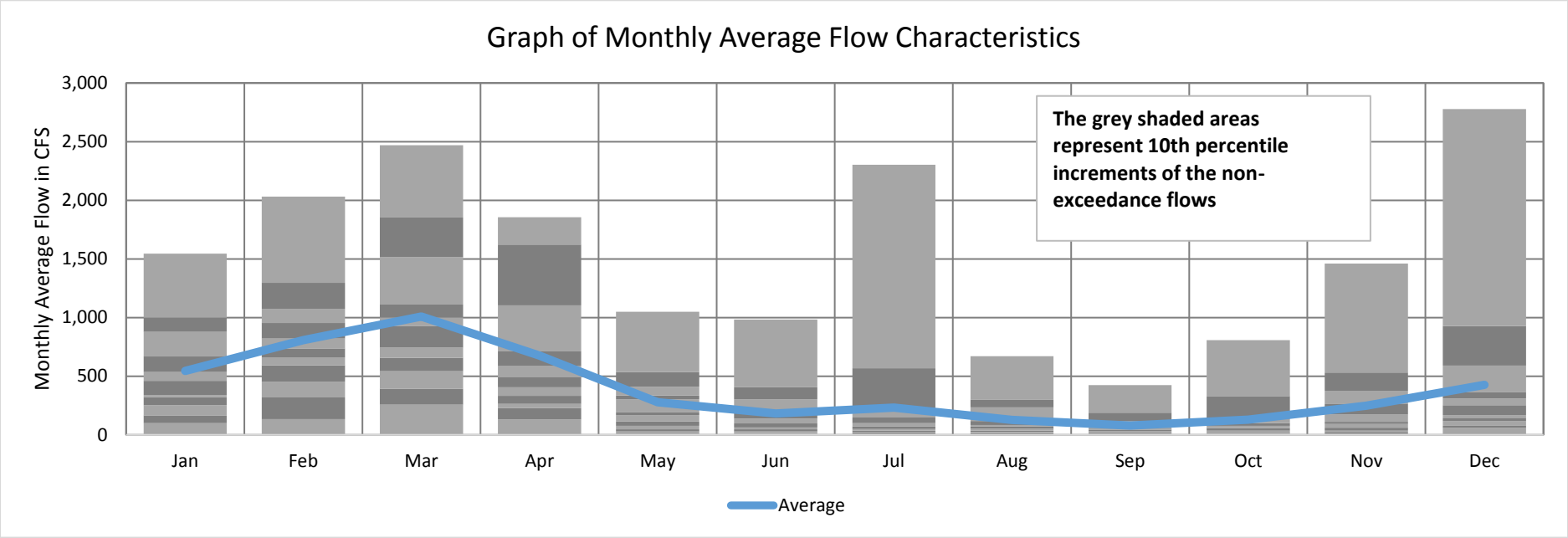
Site #: 02342500 Name: Uchee Creek near Fort Mitchell, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	544	807	1,009	675	278	181	233	127	79	130	248	425
100%	1,544	2,032	2,470	1,856	1,049	982	2,303	671	423	807	1,460	2,778
98%	1,429	1,943	2,132	1,808	1,019	890	1,591	625	294	726	1,457	1,791
95%	1,180	1,562	2,023	1,785	818	537	947	381	218	576	759	1,276
90%	1,000	1,297	1,854	1,623	536	405	569	298	189	331	531	928
75%	761	1,011	1,349	889	359	283	191	177	111	121	343	495
50%	461	736	927	489	190	98	69	70	45	57	112	254
25%	298	514	574	318	85	37	33	28	25	19	52	130
10%	166	318	391	228	48	16	17	15	11	9.2	25	78
5%	115	261	330	184	38	14	10	8.4	9.6	7.3	18	73
2%	100	210	277	155	32	14	8.3	6.1	8.2	6.2	15	64
0%	100	135	257	132	29	13	6.8	2.6	6.3	5.3	10	60

Site #: 02342500 Name: Uchee Creek near Fort Mitchell, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 322 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	544	807	1,009	675	278	181	233	127	79	130	248	425
100%	1,544	2,032	2,470	1,856	1,049	982	2,303	671	423	807	1,460	2,778
98%	1,429	1,943	2,132	1,808	1,019	890	1,591	625	294	726	1,457	1,791
95%	1,180	1,562	2,023	1,785	818	537	947	381	218	576	759	1,276
90%	1,000	1,297	1,854	1,623	536	405	569	298	189	331	531	928
75%	761	1,011	1,349	889	359	283	191	177	111	121	343	495
50%	461	736	927	489	190	98	69	70	45	57	112	254
25%	298	514	574	318	85	37	33	28	25	19	52	130
10%	166	318	391	228	48	16	17	15	11	9.2	25	78
5%	115	261	330	184	38	14	10	8.4	9.6	7.3	18	73
2%	100	210	277	155	32	14	8.3	6.1	8.2	6.2	15	64
0%	100	135	257	132	29	13	6.8	2.6	6.3	5.3	10	60

Monthly Flows (in CFS) for

02342933 - South Fork Cowikee Creek near Batesville, Ala.

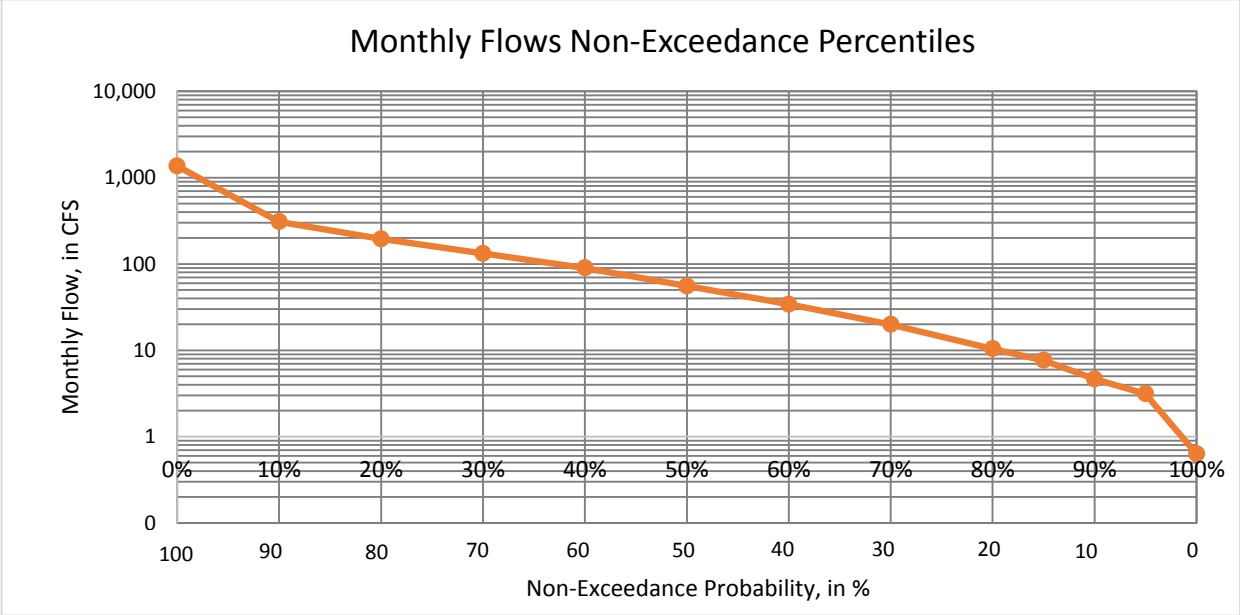
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	308	986	417	415	164	120	210	235	60	532	93	120	301
1976	194	90	260	98	390	148	38	12	9	41	116	209	135
1977	236	140	384	89	13	4	5	43	68	24	146	117	106
1978	626	214	311	229	299	49	51	69	7	4	8	19	158
1979	118	361	219	432	77	24	82	39	90	23	60	74	131
1980	139	102	481	204	203	51	17	9	7	8	14	13	104
1981	13	283	168	85	17	21	4	6	3	4	8	55	54
1982	140	383	132	195	165	27	43	30	7	4	13	102	101
1983	146	267	467	258	40	95	20	15	31	12	50	134	127
1984	163	125	216	100	82	7	50	81	5	3	6	18	71
1985	19	113	66	36	64	32	23	19	7	27	57	129	49
1986	91	128	418	44	11	5	6	8	12	12	110	99	79
1987	285	316	283	89	94	171	20	8	4	2	8	14	107
1988	102	68	164	94	20	4	27	2	16	7	22	10	45
1989	22	29	240	227	129	183	98	31	8	42	145	321	123
1990	408	321	1,363	202	111	80	7	1	1	1	5	11	210
1991	107	73	271	63	179	113	124	37	14	5	21	36	87
1992	268	244	200	46	13	26	31	82	26	17	251	248	120
1993	166	169	393	132	44	9	8	9	3	14	57	69	89
1994	127	248	197	63	17	43	872	80	40	81	66	66	159
1995	173	473	348	112	18	31	24	5	2	212	44	147	130
1996	275	386	366	201	66	30	21	42	201	39	61	100	147
1997	231	441	178	197	122	131	27	31	6	25	446	421	186
1998	377	555	563	154	55	12	6	9	134	42	19	26	160
1999	90	112	248	94	56	74	40	10	3	11	13	26	65
2000	50	34	143	31	3	5	1	4	10	2	7	90	32
2001	50	27	753	194	152	100	26	31	24	8	97	36	126
2002	58	148	164	159	16	7	17	5	3	4	29	83	57
2003	47	145	341	274	99	191	325	177	38	22	54	69	149
2004	243	403	83	40	45	19	16	17	165	14	64	77	97
2005	74	127	411	400	40	59	142	398	42	16	28	51	149
2006	106	194	132	55	44	5	7	3	4	3	62	28	53
2007	77	94	179	170	10	5	4	2	2	1	7	27	48
2008	114	237	198	221	14	2	3	176	10	27	34	205	103
2009	132	56	604	372	463	58	24	17	161	105	339	1,199	297
2010	629	420	275	49	206	53	9	4	3	3	10	19	139
2011	34	138	236	40	5	2	9	2	3	1	3	23	41
2012	43	84	53	55	19	14	6	4	9	4	4	58	29
2013	52	440	214	137	34	12	323	222	26	12	17	143	134
2014	182	275	172	616	140	57	29	9	7	14	17	58	130

Non-Exceedance Percentiles

02342933 - South Fork Cowikee Creek near Batesville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	13	27	53	31	3	2	1	1	1	1	3	10	29
5th %	21	33	82	40	10	4	4	2	2	1	5	13	40
10th %	42	66	132	44	12	5	4	3	3	2	7	18	47
15th %	49	82	160	48	13	5	6	4	3	3	8	19	52
20th %	51	94	167	55	17	7	7	5	3	4	8	25	56
30th %	86	122	191	88	20	12	9	8	6	4	13	33	85
40th %	106	139	215	96	43	23	19	9	7	8	20	56	102
Median	129	181	244	135	55	30	23	16	9	12	31	69	113
60th %	152	245	278	179	79	50	27	30	13	15	55	86	128
70th %	185	293	353	201	114	58	39	38	26	23	62	106	134
80th %	248	384	412	227	154	96	57	71	41	29	94	136	149
90th %	315	440	490	375	203	132	149	176	94	46	145	213	163
Maximum	629	986	1,363	616	463	191	872	398	201	532	446	1,199	301
Average	168	236	308	167	93	52	70	50	32	36	65	119	116

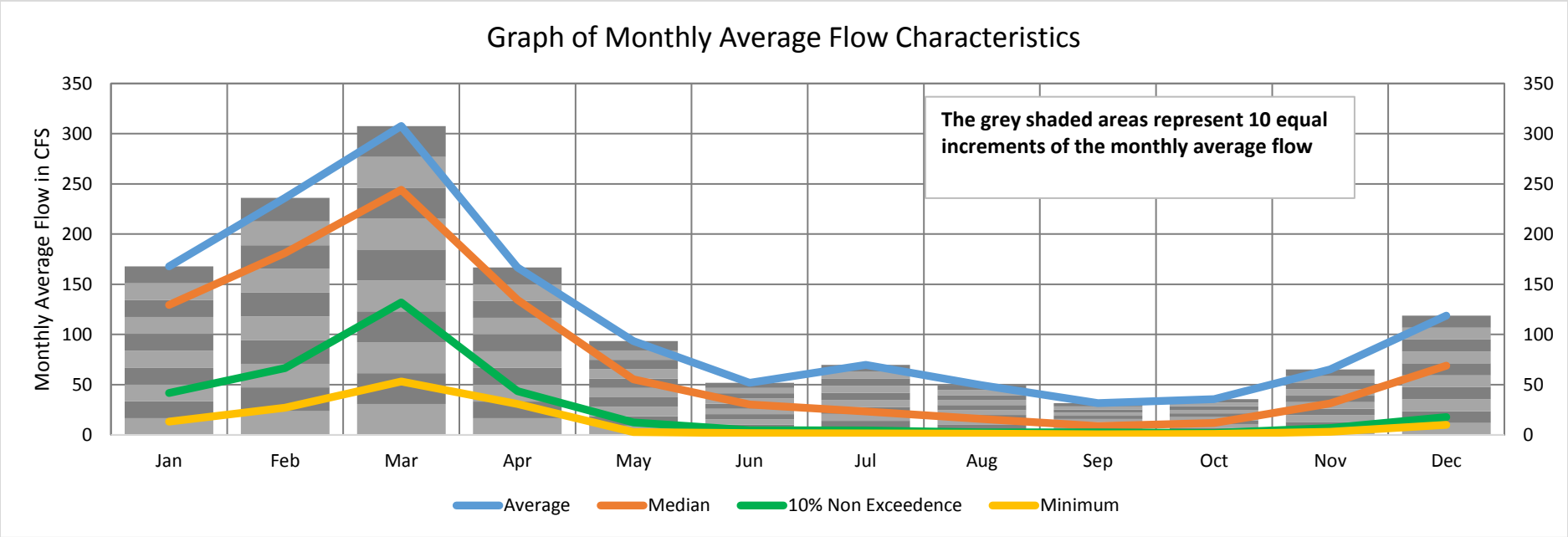
	Flows in CFS
Minimum	0.6
5th %	3
10th %	5
15th %	8
20th %	10
30th %	20
40th %	34
Median	56
60th %	90
70th %	132
80th %	195
90th %	309
Maximum	1,363
Average	116



Q10/Q50	0.08
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.03
Q10/DA	0.04
Q15/DA	0.07
Q20/DA	0.09
Q30/DA	0.18
Q40/DA	0.30
Q50/DA	0.50
Q60/DA	0.80
Q70/DA	1.18
Q80/DA	1.74
Q90/DA	2.75
Qmax/DA	12.17

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

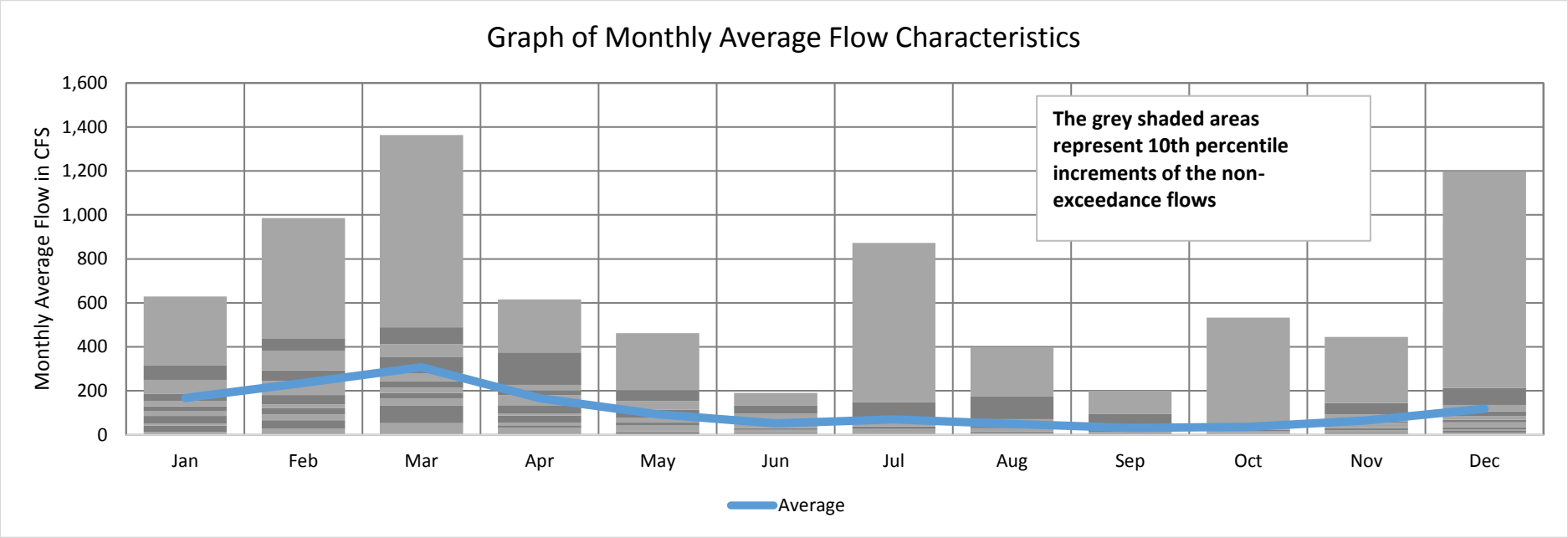
Site #: 02342933 Name: South Fork Cowikee Creek near Batesville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	168	236	308	167	93	52	70	50	32	36	65	119
100%	629	986	1,363	616	463	191	872	398	201	532	446	1,199
98%	626	650	887	473	406	185	446	271	173	283	362	592
95%	419	477	611	416	304	171	323	222	161	111	256	326
90%	315	440	490	375	203	132	149	176	94	46	145	213
75%	232	331	386	208	132	76	45	42	33	25	64	122
50%	129	181	244	135	55	30	23	16	8.8	12	31	69
25%	70	109	177	63	18	8.3	7.6	5.6	3.7	4.2	12	27
10%	42	66	132	44	12	4.6	4.5	2.7	2.5	2.0	6.9	18
5%	21	33	82	40	9.7	4.0	3.7	2.1	1.9	1.4	4.5	13
2%	18	29	63	35	4.8	2.1	2.7	1.8	1.5	1.1	3.5	11
0%	13	27	53	31	2.9	1.9	1.5	1.3	0.6	0.8	3.0	10

Site #: 02342933 Name: South Fork Cowikee Creek near Batesville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 112 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	168	236	308	167	93	52	70	50	32	36	65	119
100%	629	986	1,363	616	463	191	872	398	201	532	446	1,199
98%	626	650	887	473	406	185	446	271	173	283	362	592
95%	419	477	611	416	304	171	323	222	161	111	256	326
90%	315	440	490	375	203	132	149	176	94	46	145	213
75%	232	331	386	208	132	76	45	42	33	25	64	122
50%	129	181	244	135	55	30	23	16	8.8	12	31	69
25%	70	109	177	63	18	8.3	7.6	5.6	3.7	4.2	12	27
10%	42	66	132	44	12	4.6	4.5	2.7	2.5	2.0	6.9	18
5%	21	33	82	40	9.7	4.0	3.7	2.1	1.9	1.4	4.5	13
2%	18	29	63	35	4.8	2.1	2.7	1.8	1.5	1.1	3.5	11
0%	13	27	53	31	2.9	1.9	1.5	1.3	0.6	0.8	3.0	10

Monthly Flows (in CFS) for
02343300 - Abbie Creek near Haleburg, Ala.

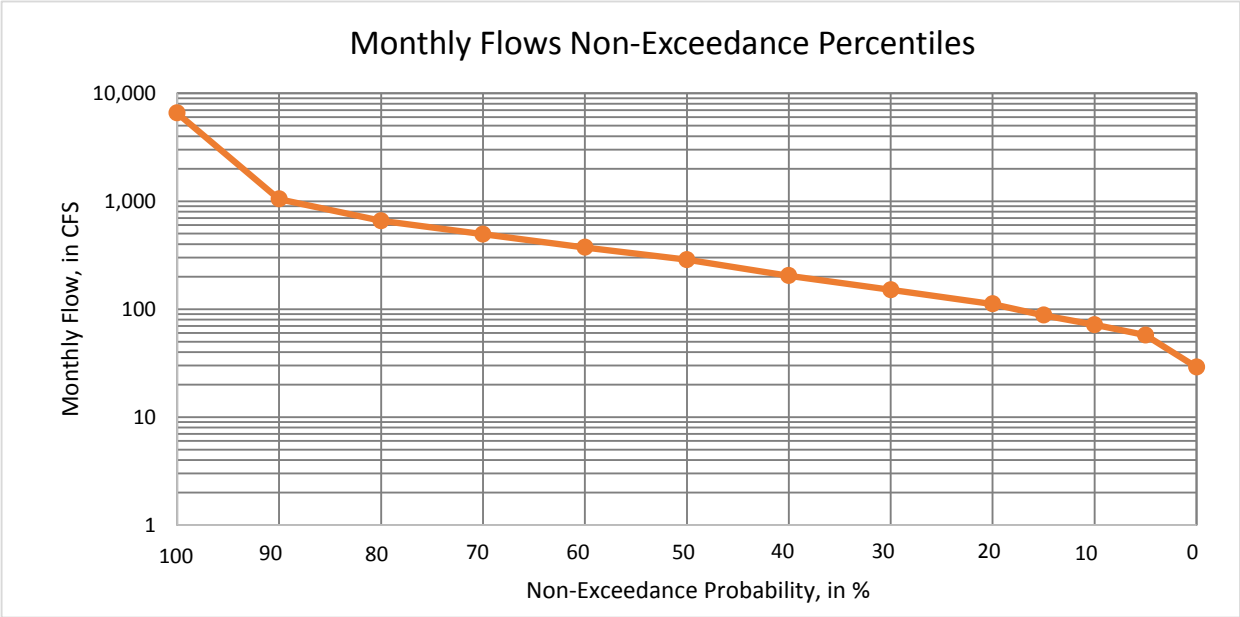
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	316	373	403	634	224	312	360	397	183	334	169	196	325
1976	465	357	380	310	284	197	132	112	122	225	410	398	282
1977	438	279	589	250	110	56	70	99	123	88	273	207	215
1978	622	335	544	351	334	178	123	192	64	61	95	128	252
1979	294	601	333	411	158	112	120	55	160	79	115	122	210
1980	166	148	652	487	320	176	118	83	71	81	95	88	208
1981	87	496	264	144	78	81	35	71	36	49	44	148	125
1982	345	562	275	236	99	115	155	114	92	52	116	255	199
1983	284	406	595	462	198	149	84	81	259	114	227	419	272
1984	374	349	400	376	430	123	132	155	57	55	91	110	221
1985	124	447	184	128	119	53	121	71	35	90	120	212	140
1986	194	235	206	93	50	40	30	36	56	37	72	113	96
1987	247	236	313	165	152	196	104	58	62	34	76	83	143
1988	179	206	309	161	62	39	137	41	123	63	61	64	120
1989	81	121	155	173	142	209	191	86	75	240	383	338	183
1990	521	324	403	192	124	90	77	37	29	37	50	78	163
1991	290	239	365	183	163	146	136	139	66	56	94	121	166
1992	299	366	381	170	88	123	97	83	61	70	269	203	183
1993	285	270	501	309	152	76	63	146	231	205	608	676	294
1994	754	1,189	1,424	963	599	635	6,541	748	402	654	516	651	1,264
1995	663	1,964	1,287	804	412	296	267	294	105	639	837	1,051	710
1996	1,311	1,635	1,955	1,735	696	440	346	512	1,018	639	502	1,139	989
1997	1,913	2,016	971	697	627	600	677	294	133	390	842	1,664	896
1998	1,869	2,255	3,826	1,652	494	221	423	264	774	1,267	454	548	1,166
1999	907	646	803	322	768	678	689	253	132	308	272	368	513
2000	545	529	532	275	75	65	60	107	198	76	252	657	280
2001	769	480	2,910	1,296	225	633	375	259	208	139	201	300	652
2002	346	476	619	601	201	171	194	120	136	166	359	683	338
2003	495	662	1,269	1,648	575	1,052	1,635	1,278	691	371	490	601	898
2004	688	1,355	612	437	559	526	341	200	494	331	548	692	560
2005	767	863	1,961	2,324	683	807	1,060	970	401	237	425	718	934
2006	967	988	928	383	404	94	76	121	128	178	345	386	414
2007	601	659	658	1,299	153	69	152	72	84	102	194	545	380
2008	1,010	1,726	810	844	170	106	165	718	196	232	390	1,914	685
2009	850	486	1,670	2,204	1,146	443	532	472	525	556	827	4,466	1,189
2010	2,446	2,283	1,232	593	699	378	249	196	130	125	218	335	732
2011	493	742	646	316	86	58	240	71	64	62	92	235	256
2012	285	419	301	215	152	166	100	490	284	156	115	332	250
2013	329	2,018	931	689	395	293	2,847	1,373	619	334	349	1,079	934
2014	1,046	1,528	1,106	3,337	1,548	550	288	193	215	413	336	747	936

Non-Exceedance Percentiles

02343300 - Abbie Creek near Haleburg, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	81	121	155	93	50	39	30	36	29	34	44	64	96
5th %	122	203	205	144	75	52	59	40	36	37	61	83	125
10th %	177	236	274	165	85	58	69	58	57	51	75	108	143
15th %	239	265	308	172	98	69	77	71	62	56	92	120	166
20th %	284	315	329	190	117	80	94	72	64	62	95	127	183
30th %	298	363	395	267	152	110	120	85	81	78	116	206	214
40th %	345	435	519	319	161	136	132	113	122	97	198	282	255
Median	479	491	604	397	213	173	153	143	131	147	260	353	288
60th %	567	619	654	529	326	201	212	194	169	213	340	470	393
70th %	708	778	929	691	418	301	304	261	210	260	385	653	662
80th %	861	1,390	1,239	1,030	580	459	385	412	307	342	461	697	897
90th %	1,073	1,970	1,699	1,660	696	633	727	721	534	565	554	1,085	941
Maximum	2,446	2,283	3,826	3,337	1,548	1,052	6,541	1,373	1,018	1,267	842	4,466	1,264
Average	617	782	843	697	349	269	489	276	221	234	298	577	469

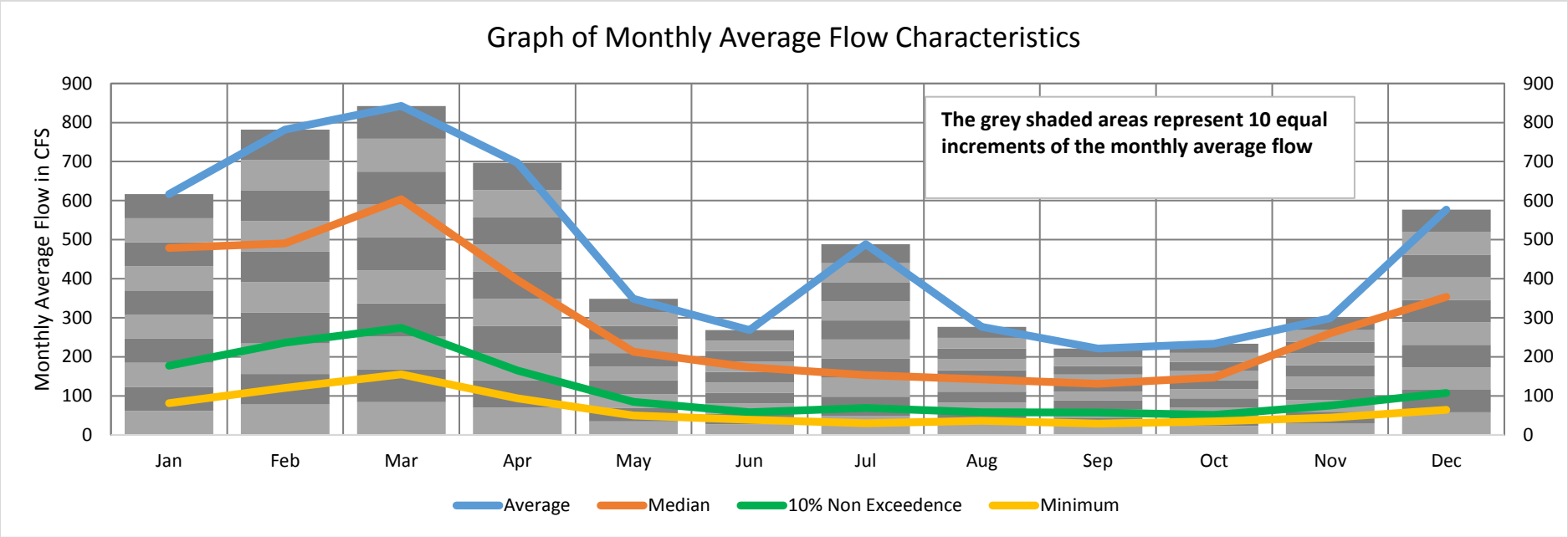
	Flows in CFS
Minimum	29.0
5th %	57
10th %	72
15th %	88
20th %	112
30th %	151
40th %	204
Median	287
60th %	373
70th %	495
80th %	657
90th %	1,047
Maximum	6,541
Average	471



Q10/Q50	0.25
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.20
Q5/DA	0.39
Q10/DA	0.49
Q15/DA	0.60
Q20/DA	0.76
Q30/DA	1.03
Q40/DA	1.40
Q50/DA	1.96
Q60/DA	2.56
Q70/DA	3.39
Q80/DA	4.50
Q90/DA	7.17
Qmax/DA	44.80

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

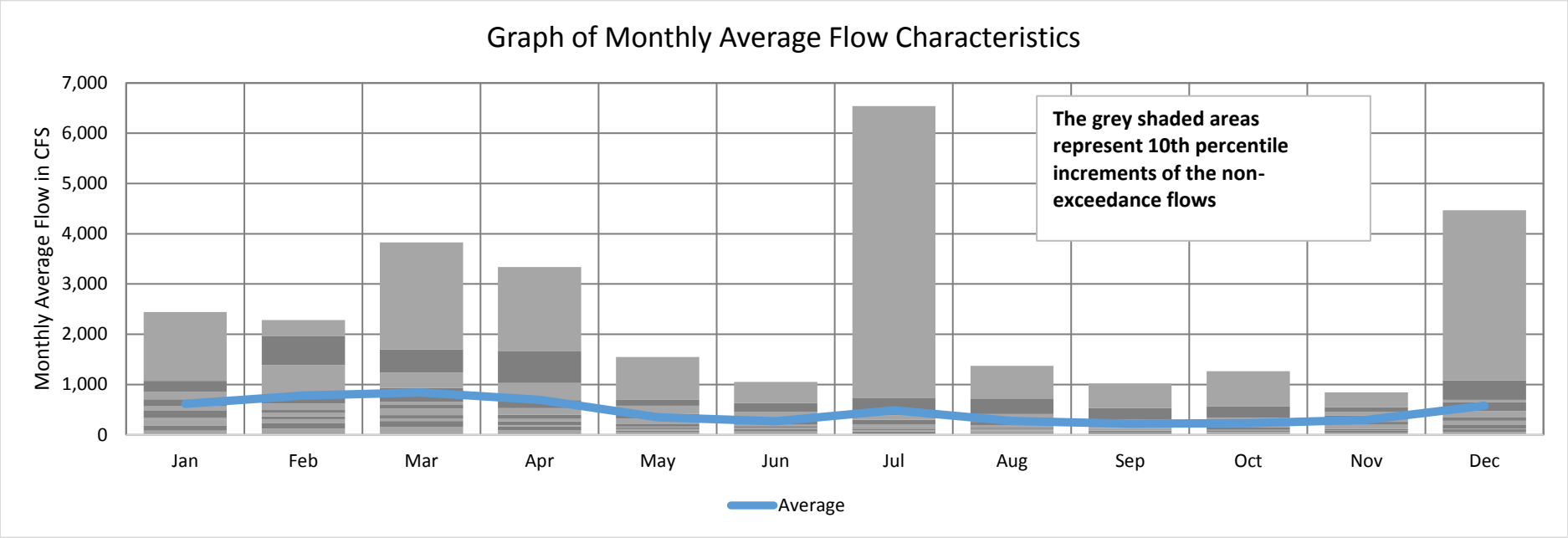
Site #: 02343300 Name: Abbie Creek near Haleburg, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	617	782	843	697	349	269	489	276	221	234	298	577
100%	2,446	2,283	3,826	3,337	1,548	1,052	6,541	1,373	1,018	1,267	842	4,466
98%	2,030	2,261	3,112	2,546	1,235	861	3,660	1,299	828	789	839	2,476
95%	1,871	2,030	2,008	2,210	787	685	1,696	985	695	640	828	1,677
90%	1,073	1,970	1,699	1,660	696	633	727	721	534	565	554	1,085
75%	768	1,039	1,004	814	510	393	350	294	238	332	414	677
50%	479	491	604	397	213	173	153	143	131	147	260	353
25%	288	346	376	231	137	93	103	83	70	68	110	184
10%	177	236	274	165	85	58	69	58	57	51	75	108
5%	122	203	205	144	75	52	59	40	36	37	61	83
2%	86	142	178	120	60	39	34	36	34	36	49	75
0%	81	121	155	93	50	39	30	36	29	34	44	64

Site #: 02343300 Name: Abbie Creek near Haleburg, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 146 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	617	782	843	697	349	269	489	276	221	234	298	577
100%	2,446	2,283	3,826	3,337	1,548	1,052	6,541	1,373	1,018	1,267	842	4,466
98%	2,030	2,261	3,112	2,546	1,235	861	3,660	1,299	828	789	839	2,476
95%	1,871	2,030	2,008	2,210	787	685	1,696	985	695	640	828	1,677
90%	1,073	1,970	1,699	1,660	696	633	727	721	534	565	554	1,085
75%	768	1,039	1,004	814	510	393	350	294	238	332	414	677
50%	479	491	604	397	213	173	153	143	131	147	260	353
25%	288	346	376	231	137	93	103	83	70	68	110	184
10%	177	236	274	165	85	58	69	58	57	51	75	108
5%	122	203	205	144	75	52	59	40	36	37	61	83
2%	86	142	178	120	60	39	34	36	34	36	49	75
0%	81	121	155	93	50	39	30	36	29	34	44	64

Monthly Flows (in CFS) for

02343801 - Chattahoochee River at Columbia, Ala.

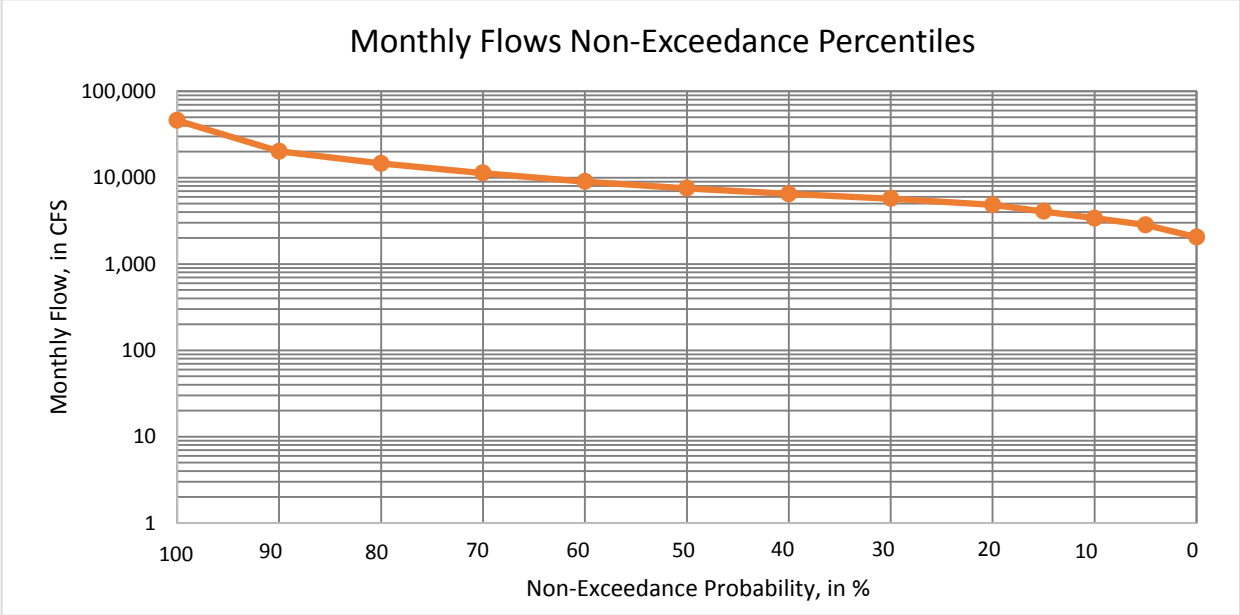
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975										16,730	13,420	13,070	
1976	17,740	15,990	21,580	15,340	15,800	13,590	10,160	7,423	6,740	6,402	10,370	19,840	13,414
1977	16,070	8,898	23,850	19,770	8,541	6,460	5,311	6,757	6,301	5,875	16,210	11,230	11,282
1978	31,670	17,850	21,190	10,900	18,390	8,849	6,087	11,770	7,679	5,982	4,553	5,311	12,525
1979	12,240	23,050	20,580	33,400	12,470	8,208	6,472	7,307	7,544	7,903	11,250	8,776	13,166
1980	12,210	14,010	35,080	27,560	19,950	8,804	7,520	7,465	6,054	5,034	5,024	4,774	12,791
1981	4,726	15,910	7,227	13,300	4,919	5,245	5,513	6,269	5,047	3,371	2,998	4,032	6,468
1982	14,470	25,830	10,420	14,070	8,224	6,351	6,460	8,965	5,942	5,451	5,955	21,180	11,022
1983	15,860	20,090	26,500	26,490	9,162	8,605	7,493	6,822	6,383	6,626	7,369	24,250	13,770
1984	18,930	16,150	21,290	14,680	15,400	7,060	7,531	14,550	7,640	5,107	5,224	7,314	11,737
1985	6,135	15,040	9,683	7,361	4,544	4,555	4,706	8,211	7,410	6,032	3,693	8,572	7,113
1986	7,128	10,010	13,100	5,384	4,825	3,953	4,708	2,307	2,265	2,385	7,648	10,640	6,180
1987	16,400	15,700	19,360	10,200	5,780	9,751	9,589	5,492	5,732	5,400	3,070	4,966	9,257
1988	9,515	11,000	7,718	7,243	6,549	4,595	2,425	2,045	4,306	5,718	6,310	5,565	6,047
1989	5,747	4,856	8,619	15,190	7,009	11,800	15,310	8,494	7,986	11,020	11,540	19,510	10,626
1990	25,780	29,710	45,900	13,820	8,811	8,934	5,147	5,376	4,566	4,613	5,712	5,129	13,551
1991	8,042	12,150	17,120	9,362	18,850	11,190	9,943	8,950	10,330	8,078	5,385	9,026	10,708
1992	12,980	17,660	15,970	8,687	6,909	5,266	6,800	6,353	8,362	6,858	23,290	24,660	11,943
1993	22,690	16,260	23,390	15,900	10,720	6,162	5,732	6,661	5,115	5,515	6,100	7,349	10,952
1994	8,559	16,630	15,230	9,859	7,598	5,404	38,070	11,940	11,630	9,822	10,220	12,710	13,153
1995	12,060	26,100	22,170	8,014	7,277	4,570	5,886	6,601	5,575	8,741	12,900	12,290	10,927
1996	16,000	27,400	30,310	13,560	10,230	6,928	7,471	6,460	6,305	7,014	5,437	8,889	12,087
1997	14,040	21,390	18,170	10,760	9,793	10,560	9,597	7,066	7,216	6,085	10,950	23,080	12,346
1998	21,950	33,800	38,690	20,610	12,860	6,140	7,314	6,378	5,830	5,081	6,476	5,855	14,137
1999	6,753	11,270	8,988	4,957	4,536	7,664	4,855	7,285	3,877	2,954	3,097	3,655	5,790
2000	5,985	8,816	6,912	9,532	5,097	3,946	3,083	3,572	2,990	2,750	3,309	5,871	5,127
2001	7,442	6,066	28,590	12,890	5,480	9,680	4,625	4,511	2,996	2,710	2,814	3,014	7,586
2002	4,372	7,536	7,201	6,820	3,948	3,339	3,279	2,893	2,574	2,346	6,640	10,900	5,138
2003	6,035	12,700	20,160	13,690	22,650	19,670	19,080	10,560	5,967	5,677	7,470	9,238	12,753
2004	10,280	16,010	6,274	5,390	3,759	3,742	5,767	4,906	13,930	6,735	13,080	13,820	8,576
2005	10,600	14,010	23,980	24,540	8,390	12,930	23,200	16,040	6,751	4,051	6,451	9,596	13,381
2006	12,360	12,400	13,100	7,887	7,635	3,658	3,317	2,567	3,383	3,099	6,622	5,259	6,743
2007	10,450	7,748	9,204	6,358	4,011	2,850	2,578	3,129	2,679	2,732	2,532	2,254	4,698
2008	5,418	12,750	8,773	7,539	4,026	2,331	2,459	6,480	2,472	3,538	5,441	13,680	6,208
2009	8,711	4,481	24,800	23,100	9,940	5,303	3,388	3,958	14,900	14,770	22,990	43,380	15,046
2010	27,390	27,290	22,400	8,466	14,170	5,793	4,129	3,906	2,634	4,056	3,687	6,125	10,764
2011	5,518	10,880	14,470	11,410	4,167	3,172	3,780	3,580	4,313	3,885	4,166	2,509	5,950
2012	7,536	6,068	9,129	5,816	2,889	3,008	3,735	2,642	2,772	2,931	3,240	2,808	4,375
2013	5,544	26,490	13,040	9,670	12,440	8,904	18,570	13,510	5,902	4,901	5,010	17,600	11,726
2014	14,820	17,060	13,340	30,340	10,300	5,764	5,389	4,968	4,605	4,839	3,994	7,427	10,171

Non-Exceedance Percentiles

02343801 - Chattahoochee River at Columbia, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,372	4,481	6,274	4,957	2,889	2,331	2,425	2,045	2,265	2,346	2,532	2,254	4,375
5th %	5,349	5,945	7,172	5,389	3,929	2,992	2,566	2,541	2,564	2,694	2,989	2,793	5,084
10th %	5,539	7,242	7,620	6,250	4,023	3,306	3,240	2,843	2,670	2,748	3,094	3,591	5,659
15th %	5,914	8,496	8,727	7,116	4,425	3,717	3,367	3,439	2,925	2,951	3,299	4,663	6,018
20th %	6,095	9,565	9,073	7,468	4,713	3,950	3,762	3,776	3,228	3,317	3,692	5,096	6,197
30th %	7,480	11,622	11,468	8,554	5,600	4,855	4,707	4,931	4,414	4,055	4,873	5,768	7,302
40th %	8,872	13,002	13,566	9,708	7,063	5,476	5,327	6,286	5,207	4,981	5,416	7,335	10,262
Median	10,600	15,700	17,120	10,900	8,224	6,162	5,767	6,480	5,902	5,426	6,028	8,833	10,927
60th %	12,336	16,122	20,496	13,508	9,092	7,034	6,470	6,809	6,252	5,781	6,534	10,014	11,637
70th %	14,680	17,420	21,934	14,436	10,272	8,724	7,484	7,377	6,747	6,180	7,523	12,416	12,242
80th %	16,202	22,054	23,902	17,448	12,626	9,232	9,592	8,676	7,582	6,889	11,010	14,576	12,936
90th %	22,098	26,650	28,934	24,930	16,318	11,312	15,962	11,804	8,756	8,849	13,114	21,370	13,442
Maximum	31,670	33,800	45,900	33,400	22,650	19,670	38,070	16,040	14,900	16,730	23,290	43,380	15,046
Average	12,312	15,822	18,039	13,330	9,181	7,044	7,858	6,774	6,018	5,820	7,541	10,879	9,980

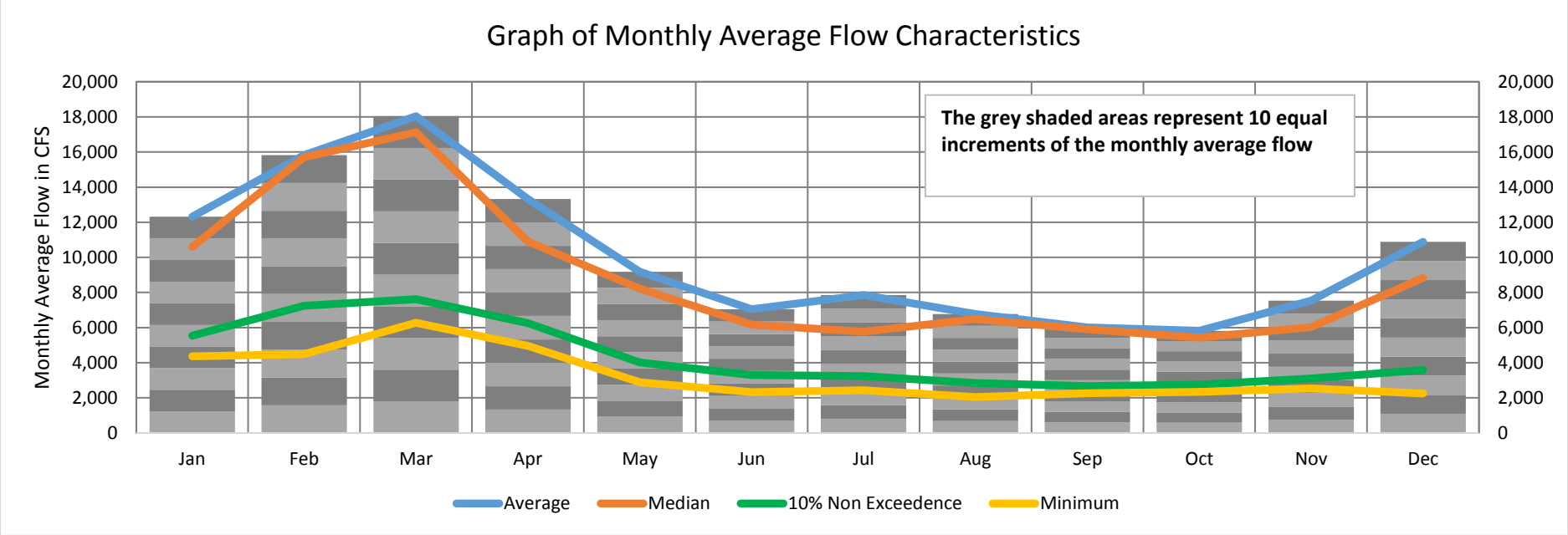
	Flows in CFS
Minimum	2,045.0
5th %	2,832
10th %	3,388
15th %	4,054
20th %	4,825
30th %	5,712
40th %	6,460
Median	7,520
60th %	8,988
70th %	11,270
80th %	14,550
90th %	20,160
Maximum	45,900
Average	10,039



Q10/Q50	0.45
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.25
Q5/DA	0.34
Q10/DA	0.41
Q15/DA	0.49
Q20/DA	0.59
Q30/DA	0.70
Q40/DA	0.79
Q50/DA	0.92
Q60/DA	1.09
Q70/DA	1.37
Q80/DA	1.77
Q90/DA	2.46
Qmax/DA	5.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

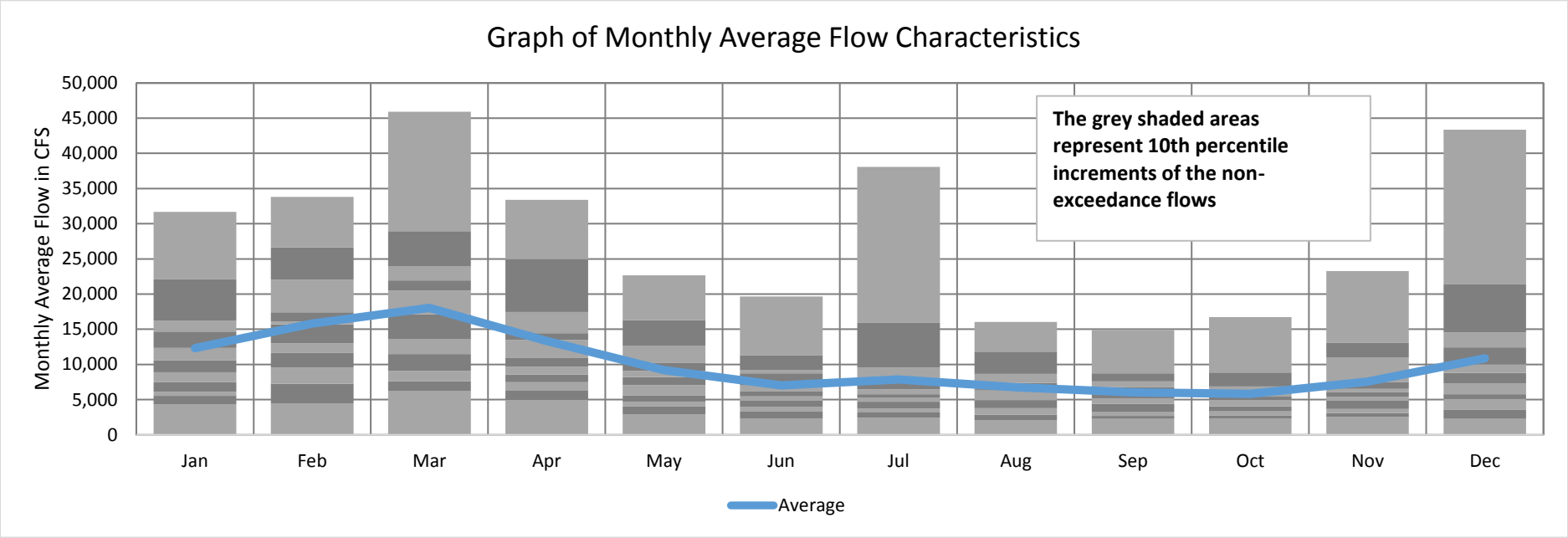
Site #: 02343801 Name: Chattahoochee River at Columbia, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,312	15,822	18,039	13,330	9,181	7,044	7,858	6,774	6,018	5,820	7,541	10,879
100%	31,670	33,800	45,900	33,400	22,650	19,670	38,070	16,040	14,900	16,730	23,290	43,380
98%	28,417	30,692	40,420	31,074	20,598	15,049	26,769	14,908	14,163	15,201	23,056	28,778
95%	25,941	27,631	35,441	27,838	18,960	12,996	19,492	13,614	11,860	11,208	16,549	24,271
90%	22,098	26,650	28,934	24,930	16,318	11,312	15,962	11,804	8,756	8,849	13,114	21,370
75%	15,930	18,970	22,895	15,265	11,580	8,877	7,526	7,838	7,313	6,653	10,258	13,223
50%	10,600	15,700	17,120	10,900	8,224	6,162	5,767	6,480	5,902	5,426	6,028	8,833
25%	6,941	10,940	9,444	7,951	5,008	4,563	4,377	4,235	4,092	3,798	4,123	5,298
10%	5,539	7,242	7,620	6,250	4,023	3,306	3,240	2,843	2,670	2,748	3,094	3,591
5%	5,349	5,945	7,172	5,389	3,929	2,992	2,566	2,541	2,564	2,694	2,989	2,793
2%	4,641	4,766	6,759	5,282	3,550	2,725	2,451	2,244	2,422	2,376	2,752	2,453
0%	4,372	4,481	6,274	4,957	2,889	2,331	2,425	2,045	2,265	2,346	2,532	2,254

Site #: 02343801 Name: Chattahoochee River at Columbia, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,210 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,312	15,822	18,039	13,330	9,181	7,044	7,858	6,774	6,018	5,820	7,541	10,879
100%	31,670	33,800	45,900	33,400	22,650	19,670	38,070	16,040	14,900	16,730	23,290	43,380
98%	28,417	30,692	40,420	31,074	20,598	15,049	26,769	14,908	14,163	15,201	23,056	28,778
95%	25,941	27,631	35,441	27,838	18,960	12,996	19,492	13,614	11,860	11,208	16,549	24,271
90%	22,098	26,650	28,934	24,930	16,318	11,312	15,962	11,804	8,756	8,849	13,114	21,370
75%	15,930	18,970	22,895	15,265	11,580	8,877	7,526	7,838	7,313	6,653	10,258	13,223
50%	10,600	15,700	17,120	10,900	8,224	6,162	5,767	6,480	5,902	5,426	6,028	8,833
25%	6,941	10,940	9,444	7,951	5,008	4,563	4,377	4,235	4,092	3,798	4,123	5,298
10%	5,539	7,242	7,620	6,250	4,023	3,306	3,240	2,843	2,670	2,748	3,094	3,591
5%	5,349	5,945	7,172	5,389	3,929	2,992	2,566	2,541	2,564	2,694	2,989	2,793
2%	4,641	4,766	6,759	5,282	3,550	2,725	2,451	2,244	2,422	2,376	2,752	2,453
0%	4,372	4,481	6,274	4,957	2,889	2,331	2,425	2,045	2,265	2,346	2,532	2,254

Monthly Flows (in CFS) for

02344040 - Chattahoochee River near Steam Mill, Ga. (represents streamflow for 03130004)

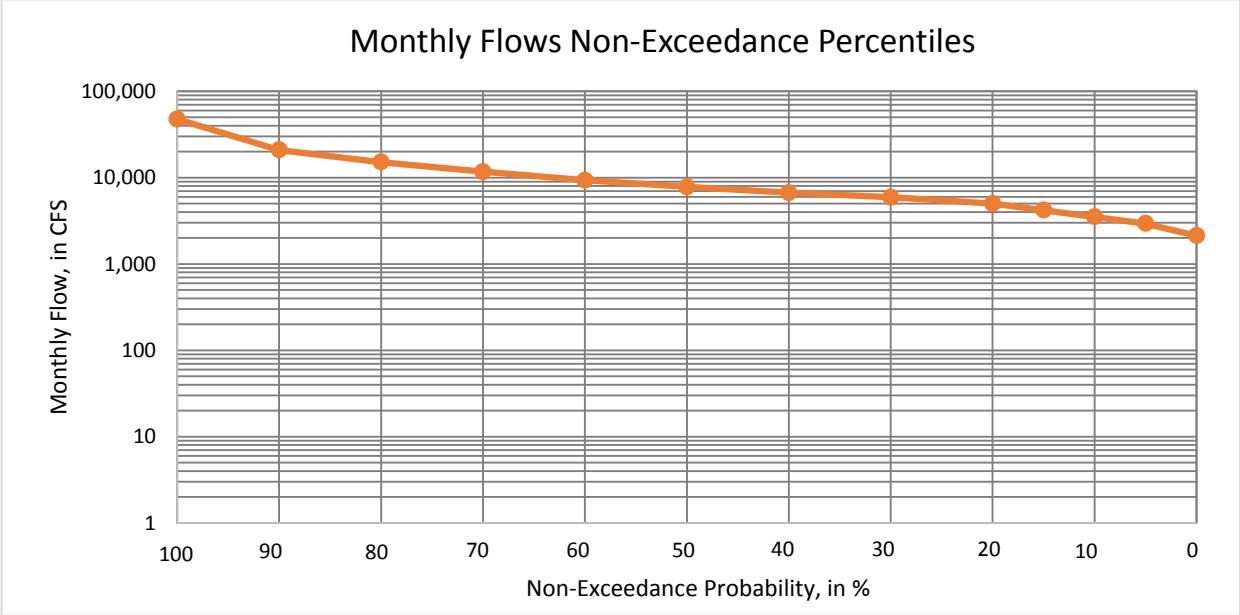
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975										17,341	13,910	13,548	
1976	18,388	16,574	22,369	15,901	16,377	14,087	10,531	7,694	6,986	6,636	10,749	20,565	13,904
1977	16,657	9,223	24,721	20,492	8,853	6,696	5,505	7,004	6,531	6,090	16,802	11,640	11,695
1978	32,827	18,502	21,964	11,298	19,062	9,172	6,309	12,200	7,960	6,201	4,719	5,505	12,983
1979	12,687	23,892	21,332	34,620	12,926	8,508	6,708	7,574	7,820	8,192	11,661	9,097	13,647
1980	12,656	14,522	36,362	28,567	20,679	9,126	7,795	7,738	6,275	5,218	5,208	4,948	13,258
1981	4,899	16,491	7,491	13,786	5,099	5,437	5,714	6,498	5,231	3,494	3,108	4,179	6,705
1982	14,999	26,774	10,801	14,584	8,525	6,583	6,696	9,293	6,159	5,650	6,173	21,954	11,425
1983	16,440	20,824	27,468	27,458	9,497	8,919	7,767	7,071	6,616	6,868	7,638	25,136	14,273
1984	19,622	16,740	22,068	15,216	15,963	7,318	7,806	15,082	7,919	5,294	5,415	7,581	12,166
1985	6,359	15,590	10,037	7,630	4,710	4,721	4,878	8,511	7,681	6,252	3,828	8,885	7,372
1986	7,388	10,376	13,579	5,581	5,001	4,097	4,880	2,391	2,348	2,472	7,927	11,029	6,406
1987	16,999	16,274	20,067	10,573	5,991	10,107	9,939	5,693	5,941	5,597	3,182	5,147	9,595
1988	9,863	11,402	8,000	7,508	6,788	4,763	2,514	2,120	4,463	5,927	6,541	5,768	6,268
1989	5,957	5,033	8,934	15,745	7,265	12,231	15,869	8,804	8,278	11,423	11,962	20,223	11,014
1990	26,722	30,796	47,577	14,325	9,133	9,260	5,335	5,572	4,733	4,782	5,921	5,316	14,047
1991	8,336	12,594	17,746	9,704	19,539	11,599	10,306	9,277	10,707	8,373	5,582	9,356	11,099
1992	13,454	18,305	16,554	9,004	7,161	5,458	7,048	6,585	8,668	7,109	24,141	25,561	12,379
1993	23,519	16,854	24,245	16,481	11,112	6,387	5,941	6,904	5,302	5,717	6,323	7,618	11,352
1994	8,872	17,238	15,787	10,219	7,876	5,601	39,461	12,376	12,055	10,181	10,593	13,174	13,634
1995	12,501	27,054	22,980	8,307	7,543	4,737	6,101	6,842	5,779	9,060	13,371	12,739	11,326
1996	16,585	28,401	31,418	14,055	10,604	7,181	7,744	6,696	6,535	7,270	5,636	9,214	12,528
1997	14,553	22,172	18,834	11,153	10,151	10,946	9,948	7,324	7,480	6,307	11,350	23,923	12,797
1998	22,752	35,035	40,104	21,363	13,330	6,364	7,581	6,611	6,043	5,267	6,713	6,069	14,654
1999	7,000	11,682	9,316	5,138	4,702	7,944	5,032	7,551	4,019	3,062	3,210	3,789	6,001
2000	6,204	9,138	7,165	9,880	5,283	4,090	3,196	3,703	3,099	2,850	3,430	6,086	5,315
2001	7,714	6,288	29,635	13,361	5,680	10,034	4,794	4,676	3,105	2,809	2,917	3,124	7,863
2002	4,532	7,811	7,464	7,069	4,092	3,461	3,399	2,999	2,668	2,432	6,883	11,298	5,326
2003	6,256	13,164	20,897	14,190	23,478	20,389	19,777	10,946	6,185	5,884	7,743	9,576	13,219
2004	10,656	16,595	6,503	5,587	3,896	3,879	5,978	5,085	14,439	6,981	13,558	14,325	8,890
2005	10,987	14,522	24,856	25,437	8,697	13,402	24,048	16,626	6,998	4,199	6,687	9,947	13,870
2006	12,812	12,853	13,579	8,175	7,914	3,792	3,438	2,661	3,507	3,212	6,864	5,451	6,989
2007	10,832	8,031	9,540	6,590	4,158	2,954	2,672	3,243	2,777	2,832	2,625	2,336	4,869
2008	5,616	13,216	9,094	7,814	4,173	2,416	2,549	6,717	2,562	3,667	5,640	14,180	6,435
2009	9,029	4,645	25,706	23,944	10,303	5,497	3,512	4,103	15,444	15,310	23,830	44,965	15,595
2010	28,391	28,287	23,219	8,775	14,688	6,005	4,280	4,049	2,730	4,204	3,822	6,349	11,158
2011	5,720	11,278	14,999	11,827	4,319	3,288	3,918	3,711	4,471	4,027	4,318	2,601	6,167
2012	7,811	6,290	9,463	6,029	2,995	3,118	3,871	2,739	2,873	3,038	3,358	2,911	4,535
2013	5,747	27,458	13,516	10,023	12,895	9,229	19,249	14,004	6,118	5,080	5,193	18,243	12,155
2014	15,362	17,683	13,827	31,449	10,676	5,975	5,586	5,150	4,773	5,016	4,140	7,698	10,542

Non-Exceedance Percentiles

02344040 - Chattahoochee River near Steam Mill, Ga. (represents streamflow for 03130004)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336	4,535
5th %	5,544	6,162	7,434	5,586	4,073	3,102	2,660	2,634	2,657	2,792	3,098	2,895	5,270
10th %	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722	5,866
15th %	6,130	8,806	9,046	7,376	4,587	3,853	3,490	3,565	3,031	3,058	3,419	4,833	6,238
20th %	6,318	9,915	9,404	7,741	4,885	4,095	3,899	3,914	3,346	3,438	3,827	5,283	6,423
30th %	7,753	12,047	11,887	8,867	5,805	5,032	4,879	5,111	4,575	4,203	5,051	5,979	7,569
40th %	9,196	13,477	14,062	10,063	7,321	5,676	5,521	6,515	5,397	5,163	5,614	7,603	10,637
Median	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155	11,326
60th %	12,787	16,711	21,245	14,002	9,424	7,291	6,706	7,058	6,480	5,992	6,773	10,380	12,063
70th %	15,216	18,057	22,735	14,964	10,647	9,043	7,758	7,646	6,993	6,406	7,798	12,870	12,690
80th %	16,794	22,860	24,775	18,086	13,087	9,570	9,943	8,993	7,859	7,141	11,412	15,109	13,408
90th %	22,905	27,624	29,991	25,841	16,914	11,725	16,545	12,235	9,076	9,172	13,593	22,151	13,933
Maximum	32,827	35,035	47,577	34,620	23,478	20,389	39,461	16,626	15,444	17,341	24,141	44,965	15,595
Average	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276	10,345

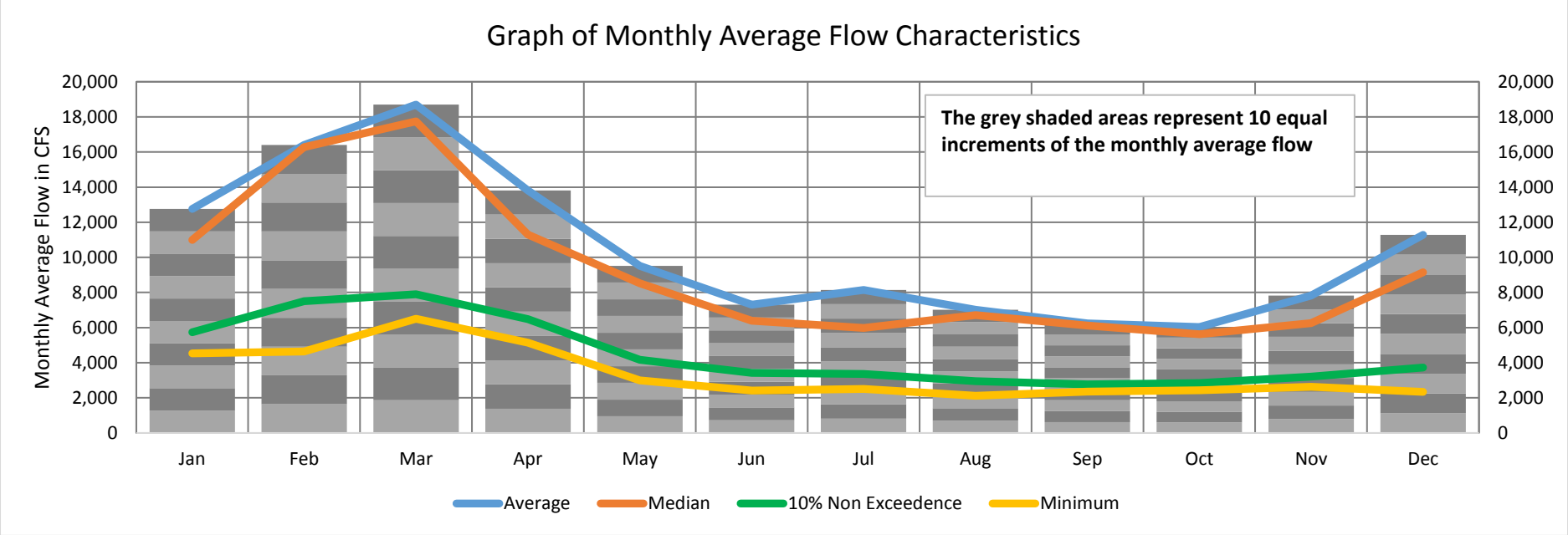
	Flows in CFS
Minimum	2,119.7
5th %	2,935
10th %	3,512
15th %	4,202
20th %	5,001
30th %	5,921
40th %	6,696
Median	7,795
60th %	9,316
70th %	11,682
80th %	15,082
90th %	20,897
Maximum	47,577
Average	10,406



Q10/Q50	0.45
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.25
Q5/DA	0.34
Q10/DA	0.41
Q15/DA	0.49
Q20/DA	0.59
Q30/DA	0.70
Q40/DA	0.79
Q50/DA	0.92
Q60/DA	1.09
Q70/DA	1.37
Q80/DA	1.77
Q90/DA	2.46
Qmax/DA	5.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

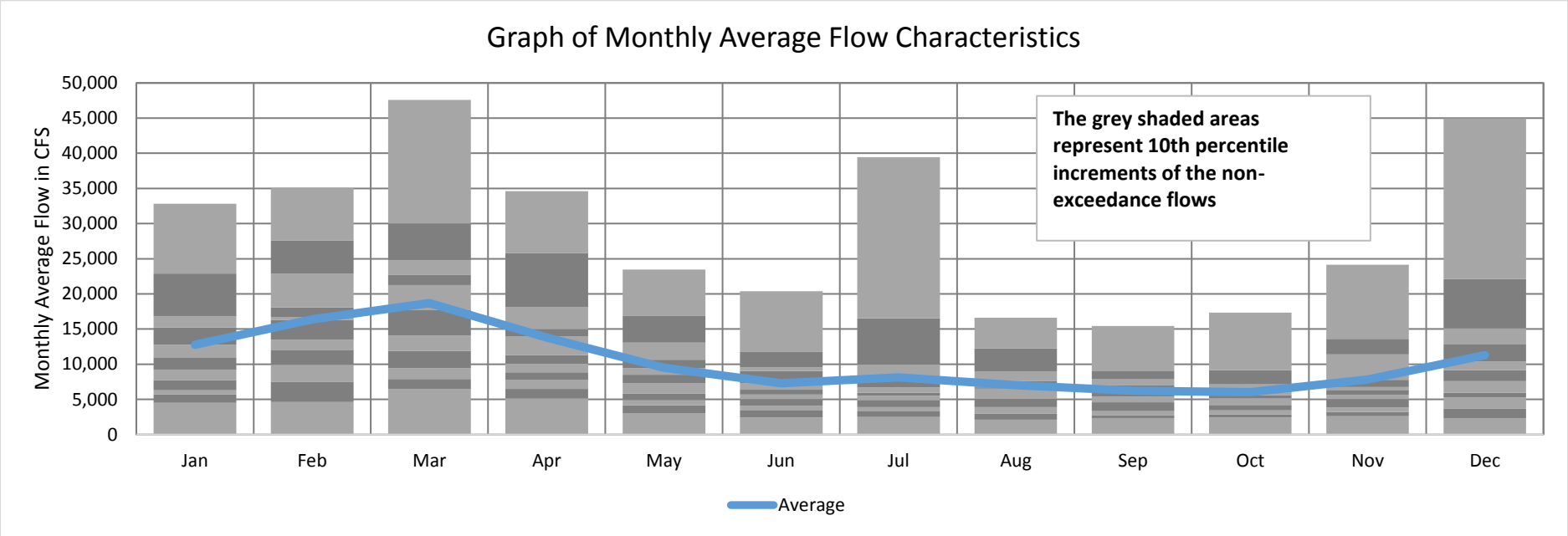
Site #: 02344040 Name: Chattahoochee River near Steam Mill, Ga. (represents streamflow for 03130004)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276
100%	32,827	35,035	47,577	34,620	23,478	20,389	39,461	16,626	15,444	17,341	24,141	44,965
98%	29,456	31,813	41,897	32,210	21,351	15,599	27,747	15,452	14,680	15,757	23,898	29,830
95%	26,889	28,641	36,736	28,855	19,653	13,471	20,204	14,111	12,293	11,617	17,154	25,157
90%	22,905	27,624	29,991	25,841	16,914	11,725	16,545	12,235	9,076	9,172	13,593	22,151
75%	16,512	19,663	23,732	15,823	12,003	9,201	7,800	8,124	7,580	6,896	10,632	13,706
50%	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155
25%	7,194	11,340	9,789	8,241	5,191	4,729	4,537	4,389	4,241	3,937	4,274	5,492
10%	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722
5%	5,544	6,162	7,434	5,586	4,073	3,102	2,660	2,634	2,657	2,792	3,098	2,895
2%	4,811	4,940	7,006	5,475	3,680	2,825	2,540	2,326	2,511	2,463	2,853	2,543
0%	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336

Site #: 02344040 Name: Chattahoochee River near Steam Mill, Ga. (represents streamflow for 03130004)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,510 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,762	16,400	18,698	13,817	9,516	7,302	8,146	7,021	6,238	6,033	7,817	11,276
100%	32,827	35,035	47,577	34,620	23,478	20,389	39,461	16,626	15,444	17,341	24,141	44,965
98%	29,456	31,813	41,897	32,210	21,351	15,599	27,747	15,452	14,680	15,757	23,898	29,830
95%	26,889	28,641	36,736	28,855	19,653	13,471	20,204	14,111	12,293	11,617	17,154	25,157
90%	22,905	27,624	29,991	25,841	16,914	11,725	16,545	12,235	9,076	9,172	13,593	22,151
75%	16,512	19,663	23,732	15,823	12,003	9,201	7,800	8,124	7,580	6,896	10,632	13,706
50%	10,987	16,274	17,746	11,298	8,525	6,387	5,978	6,717	6,118	5,624	6,248	9,155
25%	7,194	11,340	9,789	8,241	5,191	4,729	4,537	4,389	4,241	3,937	4,274	5,492
10%	5,741	7,507	7,898	6,478	4,170	3,426	3,358	2,947	2,768	2,849	3,207	3,722
5%	5,544	6,162	7,434	5,586	4,073	3,102	2,660	2,634	2,657	2,792	3,098	2,895
2%	4,811	4,940	7,006	5,475	3,680	2,825	2,540	2,326	2,511	2,463	2,853	2,543
0%	4,532	4,645	6,503	5,138	2,995	2,416	2,514	2,120	2,348	2,432	2,625	2,336

Monthly Flows (in CFS) for
02358789 - Chipola River at Marianna, Fla.

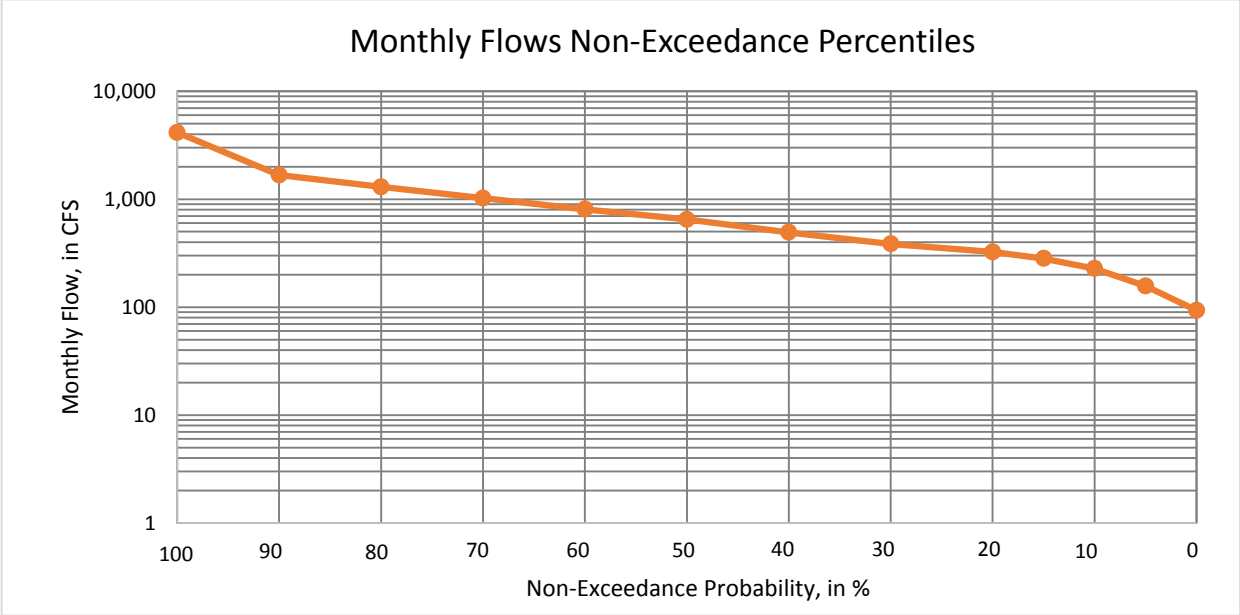
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,160	1,209	1,493	3,066	1,134	977	945	2,043	958	1,294	912	718	1,325
1976	1,124	1,343	980	707	1,065	930	597	402	344	542	631	1,468	842
1977	1,645	987	1,240	748	396	303	282	358	849	349	1,055	778	747
1978	1,379	1,869	2,688	1,220	1,447	1,101	623	832	352	282	269	473	1,041
1979	1,095	1,982	2,026	1,440	1,298	646	1,207	875	1,724	1,324	730	712	1,250
1980	882	1,145	2,224	2,664	1,507	745	507	397	324	339	357	308	947
1981	340	679	730	587	314	340	226	231	227	157	147	182	344
1982	703	1,730	1,022	671	529	453	623	1,021	671	412	450	1,131	779
1983	1,620	2,072	2,111	2,571	1,176	967	847	438	639	364	401	1,392	1,210
1984	1,399	1,737	2,591	1,916	761	670	864	1,125	504	360	327	291	1,042
1985	315	669	563	400	334	264	277	400	284	226	856	1,399	498
1986	1,633	2,720	1,566	669	411	374	275	243	242	187	187	448	734
1987	1,100	1,588	1,947	1,377	614	1,001	905	640	376	311	340	330	873
1988	639	1,299	1,896	976	452	339	439	358	739	458	376	351	689
1989	420	372	629	609	465	2,274	1,962	803	484	697	839	1,014	883
1990	2,082	1,592	1,272	872	534	444	396	231	136	137	121	156	660
1991	543	1,718	2,977	1,427	1,379	1,127	974	1,056	504	366	324	351	1,059
1992	685	1,839	2,217	1,017	464	814	712	682	689	494	798	1,429	981
1993	2,242	1,460	1,876	1,203	524	360	421	282	313	282	411	383	810
1994	629	1,303	1,590	1,385	605	1,433	3,264	1,423	955	1,777	794	1,091	1,357
1995	997	1,604	1,404	1,132	885	863	437	634	313	423	590	501	810
1996	535	1,330	1,614	1,433	715	339	325	290	623	1,062	422	652	775
1997	1,336	1,422	934	861	1,044	915	1,049	853	412	319	969	1,619	976
1998	2,191	2,502	3,324	1,193	523	381	374	355	942	1,530	732	558	1,211
1999	1,035	942	793	448	549	574	1,300	563	360	266	280	275	615
2000	349	490	674	400	194	151	149	142	159	141	216	566	302
2001	715	472	1,821	1,187	356	751	387	669	309	191	159	194	602
2002	239	293	590	986	233	254	302	276	617	596	1,546	1,075	583
2003	1,088	933	2,347	1,512	601	745	1,193	1,409	923	431	437	488	1,011
2004	429	1,432	756	386	822	955	1,087	371	679	572	770	1,174	782
2005	982	700	1,089	2,667	1,113	1,147	1,433	1,413	664	379	359	997	1,080
2006	1,589	1,063	731	372	413	210	173	177	163	151	225	325	464
2007	671	908	660	311	154	118	170	119	111	137	135	303	313
2008	1,268	2,348	1,527	830	323	219	327	581	460	343	315	2,102	880
2009	909	764	1,372	4,153	1,315	879	623	439	374	432	458	1,734	1,120
2010	2,141	2,528	1,208	554	1,089	360	267	231	158	140	157	178	741
2011	230	539	516	360	163	107	138	133	99	93	95	141	216
2012	354	791	1,399	419	241	228	186	535	507	460	253	344	475
2013	398	2,673	2,145	854	474	339	2,321	2,320	1,202	664	500	757	1,214
2014	1,121	1,231	1,665	2,648	2,433	787	492	305	327	335	324	722	1,031

Non-Exceedance Percentiles

02358789 - Chipola River at Marianna, Fla.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	230	293	516	311	154	107	138	119	99	93	95	141	216
5th %	311	467	589	371	192	149	169	141	134	137	134	177	313
10th %	348	534	657	399	240	218	184	225	159	141	156	192	452
15th %	391	678	722	416	321	250	261	231	218	156	183	288	495
20th %	427	751	751	533	352	295	277	269	276	190	223	307	598
30th %	636	939	1,009	670	440	340	326	340	321	282	305	349	721
40th %	710	1,184	1,259	844	503	378	411	387	357	337	335	463	777
Median	990	1,316	1,448	981	542	610	500	439	436	362	388	562	826
60th %	1,097	1,443	1,600	1,190	654	747	623	602	505	416	442	719	909
70th %	1,193	1,638	1,882	1,379	932	868	876	719	646	459	602	1,002	1,017
80th %	1,437	1,845	2,118	1,454	1,117	957	1,057	904	699	577	775	1,140	1,063
90th %	1,688	2,363	2,371	2,650	1,321	1,104	1,314	1,409	943	1,085	862	1,433	1,211
Maximum	2,242	2,720	3,324	4,153	2,433	2,274	3,264	2,320	1,724	1,777	1,546	2,102	1,357
Average	1,005	1,357	1,505	1,206	726	647	727	641	518	476	482	728	832

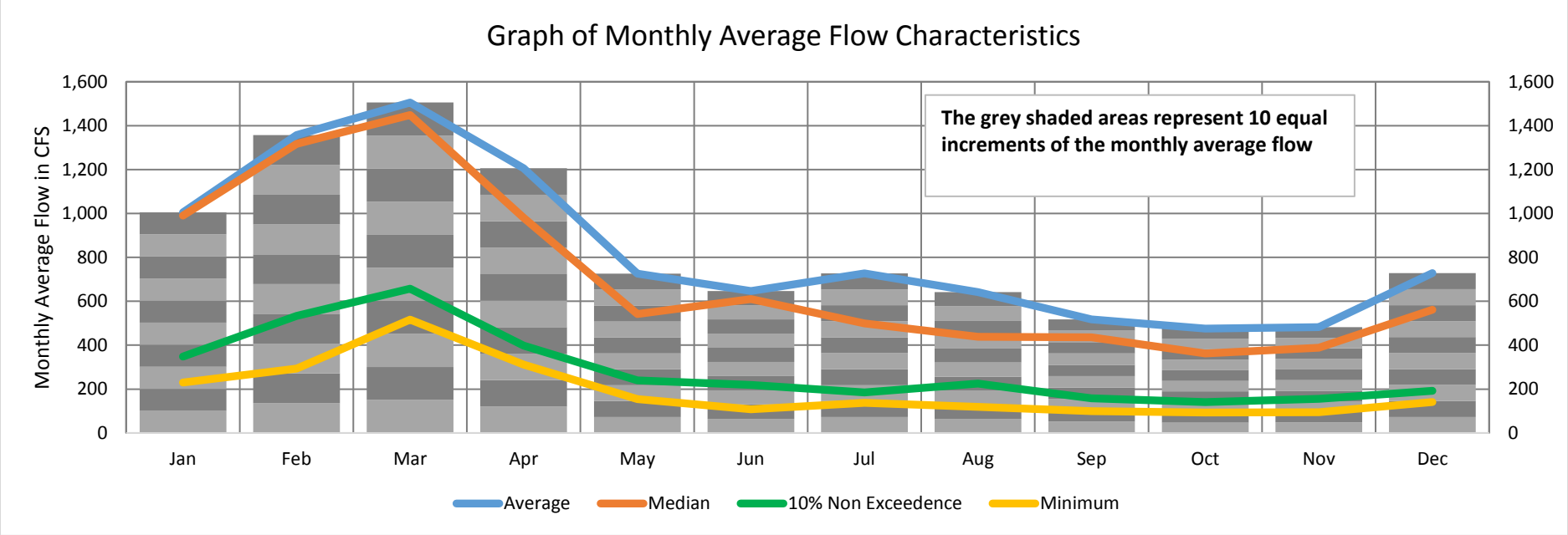
	Flows in CFS
Minimum	93.3
5th %	157
10th %	227
15th %	282
20th %	325
30th %	385
40th %	493
Median	649
60th %	808
70th %	1,021
80th %	1,301
90th %	1,670
Maximum	4,153
Average	835



Q10/Q50	0.35
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.20
Q5/DA	0.34
Q10/DA	0.49
Q15/DA	0.61
Q20/DA	0.70
Q30/DA	0.83
Q40/DA	1.06
Q50/DA	1.40
Q60/DA	1.74
Q70/DA	2.20
Q80/DA	2.80
Q90/DA	3.60
Qmax/DA	8.95

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

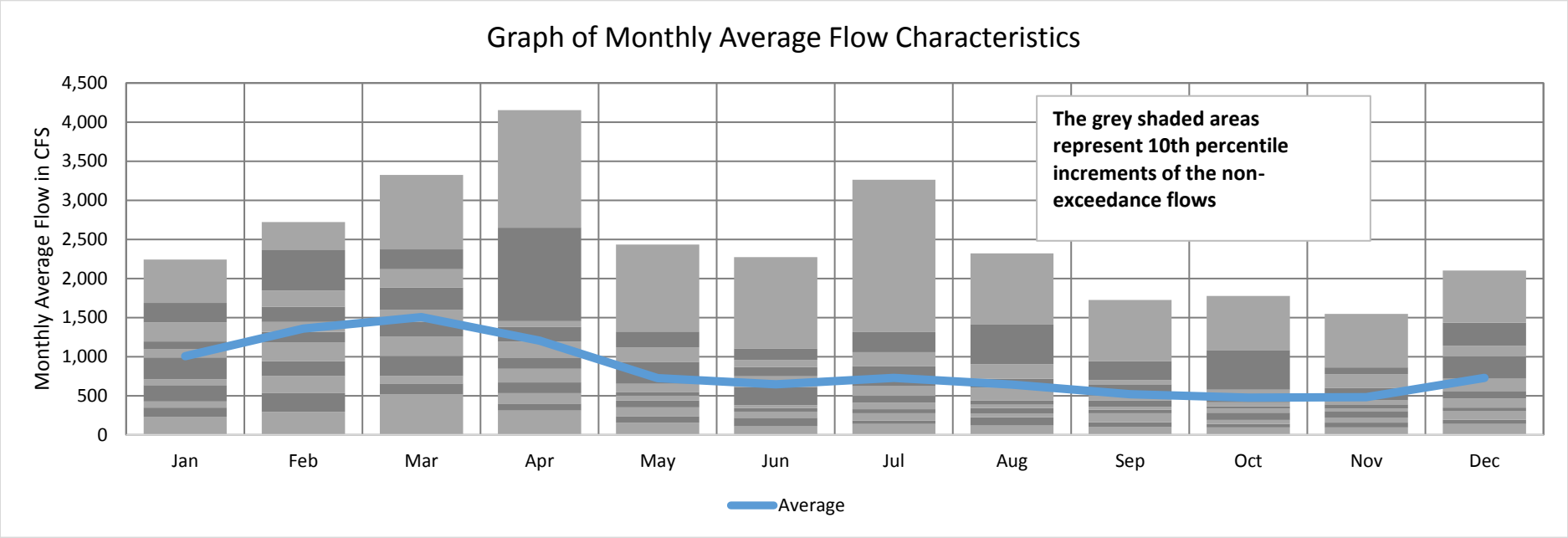
Site #: 02358789 Name: Chipola River at Marianna, Fla.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,005	1,357	1,505	1,206	726	647	727	641	518	476	482	728
100%	2,242	2,720	3,324	4,153	2,433	2,274	3,264	2,320	1,724	1,777	1,546	2,102
98%	2,202	2,683	3,054	3,305	1,711	1,618	2,528	2,104	1,317	1,584	1,163	1,815
95%	2,143	2,535	2,703	2,687	1,450	1,161	1,980	1,454	970	1,334	973	1,625
90%	1,688	2,363	2,371	2,650	1,321	1,104	1,314	1,409	943	1,085	862	1,433
75%	1,346	1,732	1,967	1,428	1,071	919	952	838	673	506	730	1,079
50%	990	1,316	1,448	981	542	610	500	439	436	362	388	562
25%	541	878	899	604	407	339	297	288	312	256	265	329
10%	348	534	657	399	240	218	184	225	159	141	156	192
5%	311	467	589	371	192	149	169	141	134	137	134	177
2%	237	354	553	349	161	116	147	130	108	127	115	153
0%	230	293	516	311	154	107	138	119	99	93	95	141

Site #: 02358789 Name: Chipola River at Marianna, Fla.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 464 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,005	1,357	1,505	1,206	726	647	727	641	518	476	482	728
100%	2,242	2,720	3,324	4,153	2,433	2,274	3,264	2,320	1,724	1,777	1,546	2,102
98%	2,202	2,683	3,054	3,305	1,711	1,618	2,528	2,104	1,317	1,584	1,163	1,815
95%	2,143	2,535	2,703	2,687	1,450	1,161	1,980	1,454	970	1,334	973	1,625
90%	1,688	2,363	2,371	2,650	1,321	1,104	1,314	1,409	943	1,085	862	1,433
75%	1,346	1,732	1,967	1,428	1,071	919	952	838	673	506	730	1,079
50%	990	1,316	1,448	981	542	610	500	439	436	362	388	562
25%	541	878	899	604	407	339	297	288	312	256	265	329
10%	348	534	657	399	240	218	184	225	159	141	156	192
5%	311	467	589	371	192	149	169	141	134	137	134	177
2%	237	354	553	349	161	116	147	130	108	127	115	153
0%	230	293	516	311	154	107	138	119	99	93	95	141

Monthly Flows (in CFS) for
02360000 - West Fork Choctawhatchee River at Blue Springs, Ala.

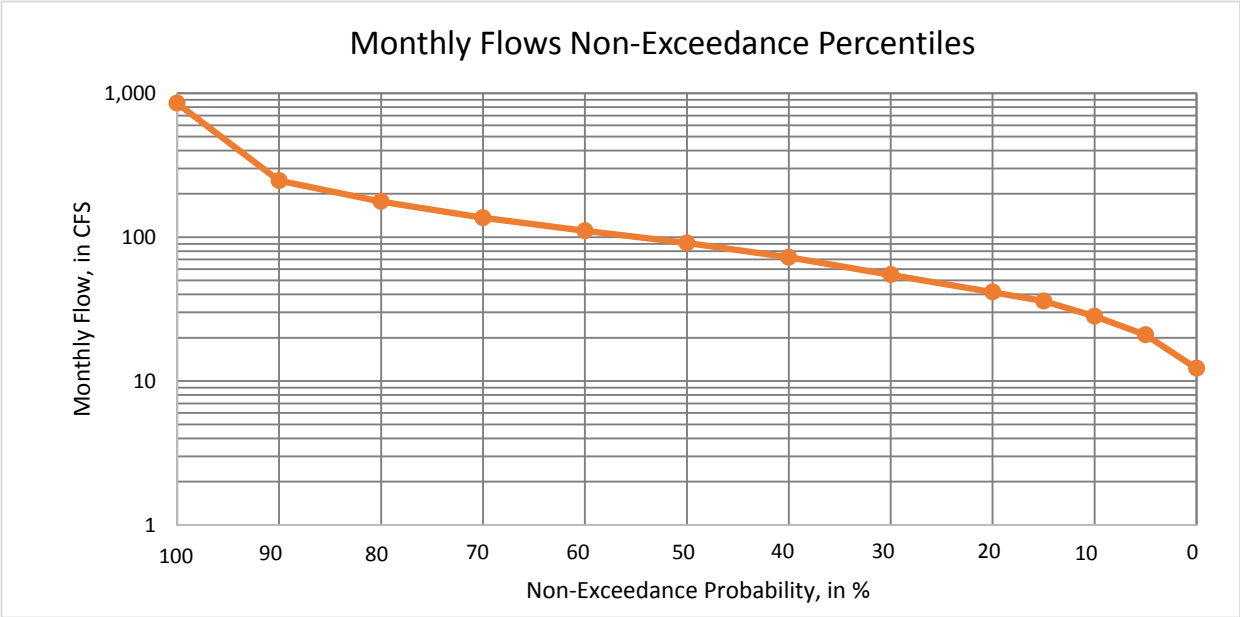
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	191	289	289	456	131	181	175	234	106	220	132	151	212
1976	222	161	177	178	192	117	76	67	89	153	230	267	161
1977	292	154	354	134	54	42	48	92	102	58	164	147	137
1978	447	220	300	175	196	153	75	101	32	31	44	77	154
1979	171	328	235	247	111	74	114	54	81	65	89	105	138
1980	132	110	373	288	157	100	61	43	28	41	43	48	119
1981	51	223	154	116	42	36	23	39	34	29	33	91	72
1982	203	334	195	167	60	46	95	96	49	36	63	161	124
1983	185	239	316	275	149	125	90	55	77	39	82	175	150
1984	197	169	265	193	177	60	78	98	27	25	42	62	116
1985	69	282	131	77	72	36	57	48	28	50	75	164	90
1986	146	157	177	76	35	24	20	25	37	23	48	83	70
1987	152	168	210	120	91	119	50	27	28	14	38	49	88
1988	119	147	232	104	35	17	83	16	65	34	40	40	77
1989	52	73	106	126	85	139	166	51	34	107	205	214	113
1990	379	246	675	162	125	83	53	23	19	19	26	55	156
1991	169	220	277	132	163	109	105	80	41	31	63	69	121
1992	220	259	282	118	53	84	64	69	43	63	256	182	140
1993	177	174	271	196	88	42	47	28	42	38	101	111	109
1994	122	184	216	152	99	105	851	121	69	107	87	107	186
1995	109	289	197	129	71	53	48	52	21	105	134	164	113
1996	201	245	287	258	114	75	61	86	160	105	85	177	154
1997	282	295	153	114	103	99	111	52	26	67	135	249	140
1998	276	327	525	247	84	40	73	47	125	195	77	92	175
1999	144	106	129	57	124	111	113	46	26	55	49	64	85
2000	91	89	89	49	15	13	13	21	37	15	46	108	49
2001	124	81	411	199	41	104	65	47	38	27	37	53	103
2002	61	81	102	100	37	32	36	23	26	31	63	112	58
2003	84	109	195	246	96	165	245	196	113	65	83	100	141
2004	112	207	101	75	93	88	60	37	84	58	92	113	92
2005	124	138	288	336	112	130	166	153	69	43	73	117	146
2006	153	156	147	66	70	19	16	24	25	33	60	67	69
2007	99	108	108	199	29	14	29	15	17	20	36	91	63
2008	159	257	130	135	32	21	31	117	36	42	67	282	108
2009	136	82	249	320	178	76	89	80	88	93	133	604	178
2010	351	330	190	98	114	66	45	36	25	24	40	59	114
2011	83	120	106	56	17	12	44	15	13	13	18	43	45
2012	51	72	53	40	29	31	20	83	51	30	23	58	45
2013	58	296	148	112	68	52	403	209	102	59	61	168	144
2014	164	230	172	465	233	92	51	36	39	71	59	121	144

Non-Exceedance Percentiles

02360000 - West Fork Choctawhatchee River at Blue Springs, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	51	72	53	40	15	12	13	15	13	13	18	40	45
5th %	52	80	101	56	28	14	19	16	19	15	26	48	48
10th %	60	82	106	65	32	19	23	23	24	20	36	53	63
15th %	81	104	108	76	35	23	31	24	25	24	38	58	70
20th %	90	108	130	94	40	32	42	26	26	26	40	61	76
30th %	117	145	151	113	58	42	48	37	28	31	45	74	92
40th %	129	159	177	124	72	52	55	46	36	35	60	91	112
Median	149	179	196	134	89	74	63	52	39	41	63	107	117
60th %	166	221	233	171	101	85	75	60	46	56	76	115	137
70th %	187	245	273	197	114	102	89	81	69	63	85	154	142
80th %	206	284	288	247	135	112	111	96	84	75	107	170	151
90th %	283	299	356	291	177	131	167	124	103	107	138	218	162
Maximum	447	334	675	465	233	181	851	234	160	220	256	604	212
Average	164	194	225	170	94	75	101	69	54	58	81	130	118

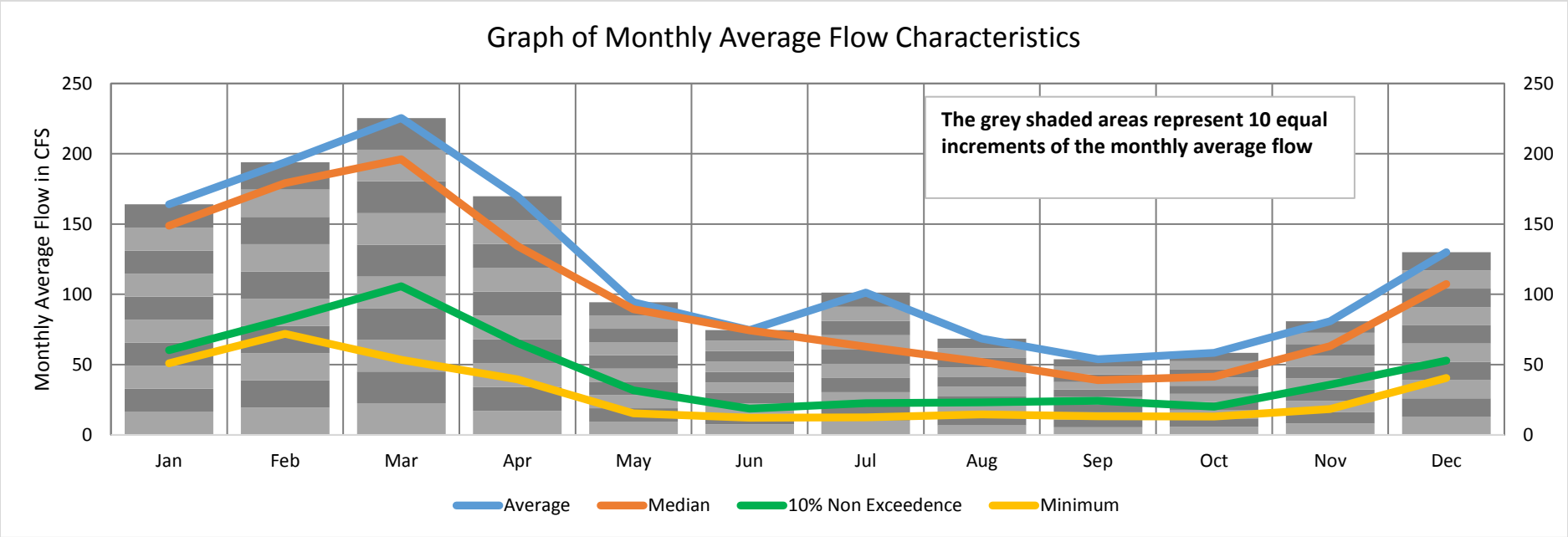
	Flows in CFS
Minimum	12.2
5th %	21
10th %	28
15th %	36
20th %	41
30th %	55
40th %	72
Median	91
60th %	111
70th %	136
80th %	177
90th %	246
Maximum	851
Average	118



Q10/Q50	0.31
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.14
Q5/DA	0.24
Q10/DA	0.32
Q15/DA	0.41
Q20/DA	0.48
Q30/DA	0.63
Q40/DA	0.83
Q50/DA	1.05
Q60/DA	1.27
Q70/DA	1.57
Q80/DA	2.04
Q90/DA	2.84
Qmax/DA	9.80

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

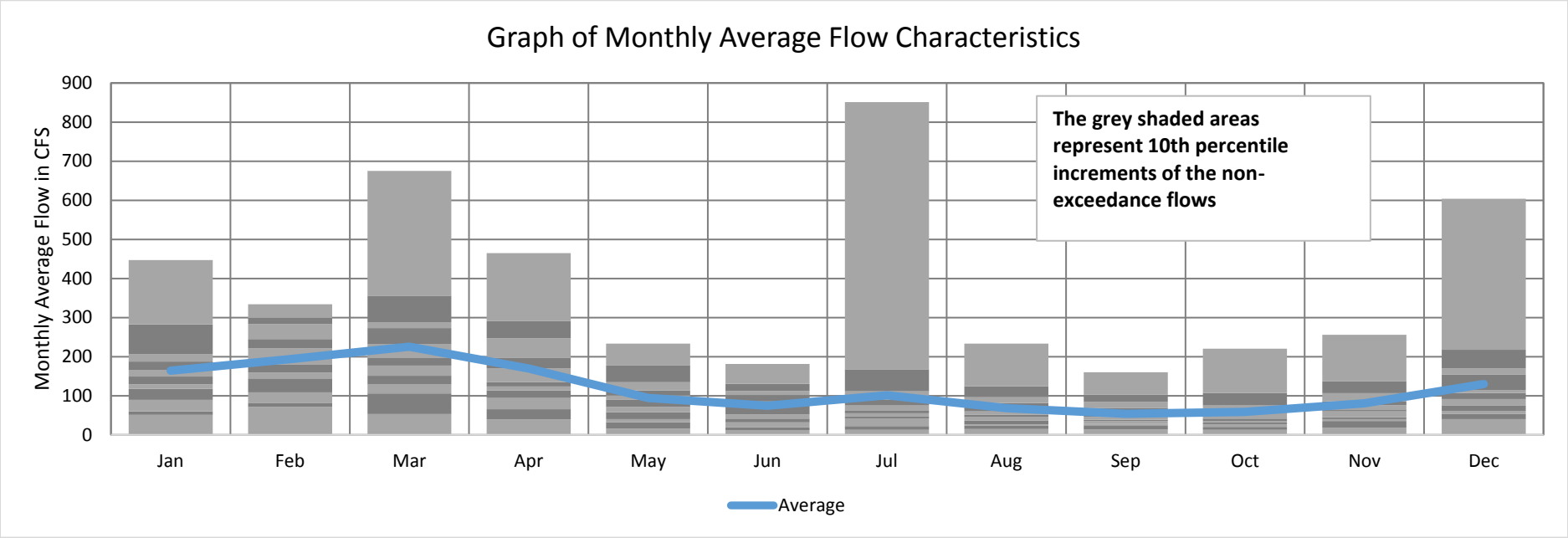
Site #: 02360000 Name: West Fork Choctawhatchee River at Blue Springs, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	164	194	225	170	94	75	101	69	54	58	81	130
100%	447	334	675	465	233	181	851	234	160	220	256	604
98%	394	331	558	458	204	168	501	215	133	200	236	353
95%	353	328	417	342	192	154	253	197	113	155	206	268
90%	283	299	356	291	177	131	167	124	103	107	138	218
75%	198	258	283	211	124	106	98	87	78	66	89	164
50%	149	179	196	134	89	74	63	52	39	41	63	107
25%	106	118	143	103	50	36	47	34	27	29	43	66
10%	60	82	106	65	32	19	23	23	24	20	36	53
5%	52	80	101	56	28	14	19	16	19	15	26	48
2%	51	72	81	47	17	13	15	15	16	14	22	42
0%	51	72	53	40	15	12	13	15	13	13	18	40

Site #: 02360000 Name: West Fork Choctawhatchee River at Blue Springs, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 87 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	164	194	225	170	94	75	101	69	54	58	81	130
100%	447	334	675	465	233	181	851	234	160	220	256	604
98%	394	331	558	458	204	168	501	215	133	200	236	353
95%	353	328	417	342	192	154	253	197	113	155	206	268
90%	283	299	356	291	177	131	167	124	103	107	138	218
75%	198	258	283	211	124	106	98	87	78	66	89	164
50%	149	179	196	134	89	74	63	52	39	41	63	107
25%	106	118	143	103	50	36	47	34	27	29	43	66
10%	60	82	106	65	32	19	23	23	24	20	36	53
5%	52	80	101	56	28	14	19	16	19	15	26	48
2%	51	72	81	47	17	13	15	15	16	14	22	42
0%	51	72	53	40	15	12	13	15	13	13	18	40

Monthly Flows (in CFS) for

02360500 - East Fork Choctawhatchee River near Midland City, Ala.

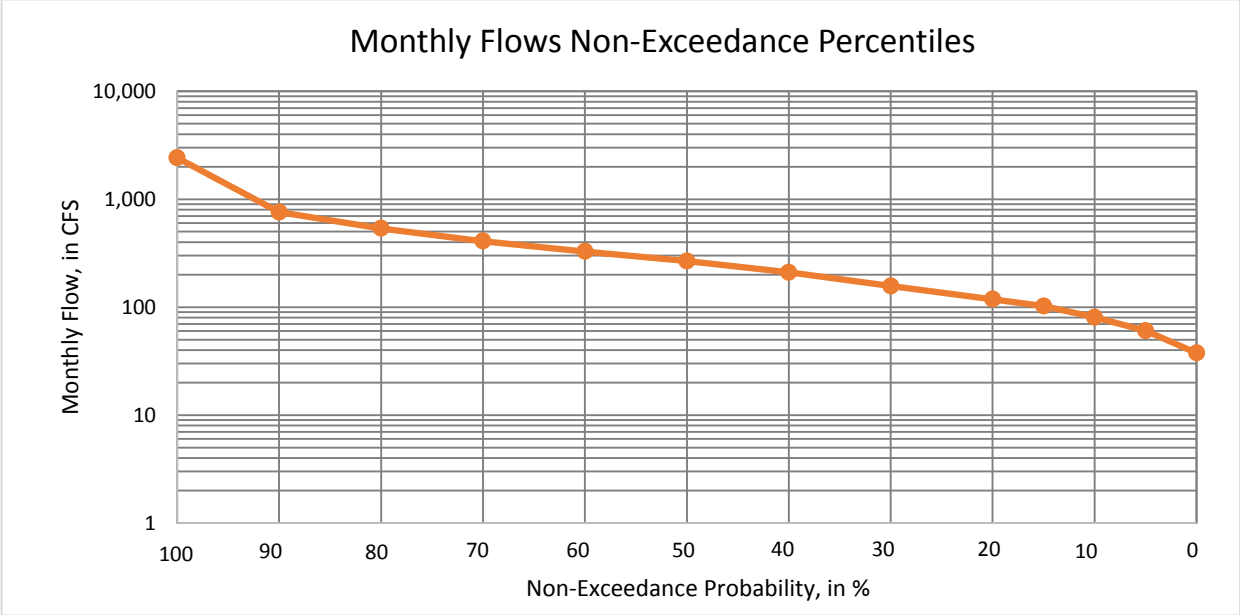
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	583	892	891	1,400	392	549	532	716	313	675	393	456	647
1976	680	486	537	541	586	348	221	192	260	460	707	822	487
1977	900	465	1,094	400	156	119	137	269	301	166	496	443	413
1978	1,372	673	925	532	598	462	217	298	92	88	127	223	467
1979	519	1,012	721	759	329	214	339	154	235	187	260	311	416
1980	395	326	1,152	887	475	296	176	124	79	115	124	138	358
1981	147	683	463	346	119	103	66	112	98	82	94	265	212
1982	618	1,031	593	506	172	130	279	281	141	102	182	487	373
1983	564	734	977	848	447	373	264	158	224	112	240	529	454
1984	599	512	815	589	537	174	228	287	77	71	118	179	349
1985	201	870	392	223	209	102	165	137	79	143	218	496	266
1986	439	474	536	221	99	67	57	70	104	67	137	241	208
1987	457	509	643	358	266	353	143	76	80	41	107	141	263
1988	355	443	710	306	100	50	242	48	189	96	113	115	230
1989	149	211	314	376	247	418	504	147	96	317	624	655	339
1990	1,170	754	2,003	489	372	241	151	67	55	55	75	157	466
1991	512	673	855	393	493	322	311	232	117	89	181	200	364
1992	675	797	870	350	152	244	186	199	123	181	787	553	424
1993	539	529	834	597	258	120	135	80	120	108	296	328	327
1994	363	558	661	458	292	309	2,419	361	201	318	254	316	545
1995	322	890	602	386	206	151	137	150	60	311	401	497	339
1996	612	752	886	794	337	218	174	252	483	311	247	536	465
1997	869	911	461	337	305	293	328	150	74	195	404	764	422
1998	850	1,009	1,600	759	244	115	211	136	373	593	225	269	530
1999	433	314	386	163	370	329	334	130	73	157	139	185	251
2000	267	260	261	141	46	41	38	61	105	46	130	319	142
2001	370	237	1,266	606	117	308	188	134	109	76	106	153	307
2002	174	235	301	293	106	91	102	67	75	89	180	331	170
2003	244	321	594	757	281	498	752	597	335	186	242	293	426
2004	333	631	298	217	274	259	172	105	244	168	269	335	273
2005	369	413	889	1,036	331	387	501	461	200	123	211	347	439
2006	460	469	442	192	201	55	46	67	71	95	174	193	204
2007	293	320	320	607	83	43	82	44	50	59	102	267	188
2008	479	790	389	404	91	60	89	347	103	120	195	869	326
2009	407	240	767	988	540	220	261	233	258	273	397	1,817	536
2010	1,085	1,020	577	289	338	189	129	103	72	69	114	169	343
2011	243	358	314	160	51	38	124	44	40	40	54	122	131
2012	145	208	153	113	82	89	57	242	145	84	65	168	129
2013	166	912	444	334	197	149	1,242	639	301	169	176	510	435
2014	495	706	522	1,425	715	270	147	102	112	206	170	360	433

Non-Exceedance Percentiles

02360500 - East Fork Choctawhatchee River near Midland City, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	145	208	153	113	46	38	38	44	40	40	54	115	129
5th %	149	234	297	159	81	43	56	48	55	46	75	137	142
10th %	173	240	312	189	90	54	65	66	70	58	102	152	186
15th %	237	306	319	221	100	66	88	67	73	69	107	166	207
20th %	263	321	388	276	115	91	120	75	75	75	114	177	226
30th %	348	434	456	336	167	118	137	105	80	89	129	216	271
40th %	385	481	537	369	208	150	159	132	101	100	172	268	334
Median	448	544	598	402	262	216	181	148	111	118	182	318	353
60th %	502	677	714	516	297	250	219	172	130	160	221	340	414
70th %	569	753	840	600	337	300	262	236	200	183	249	465	428
80th %	629	874	889	759	403	333	329	282	247	219	316	514	456
90th %	872	922	1,100	898	537	390	506	371	303	317	413	666	491
Maximum	1,372	1,031	2,003	1,425	715	549	2,419	716	483	675	787	1,817	647
Average	496	591	686	515	280	220	297	202	157	171	238	389	352

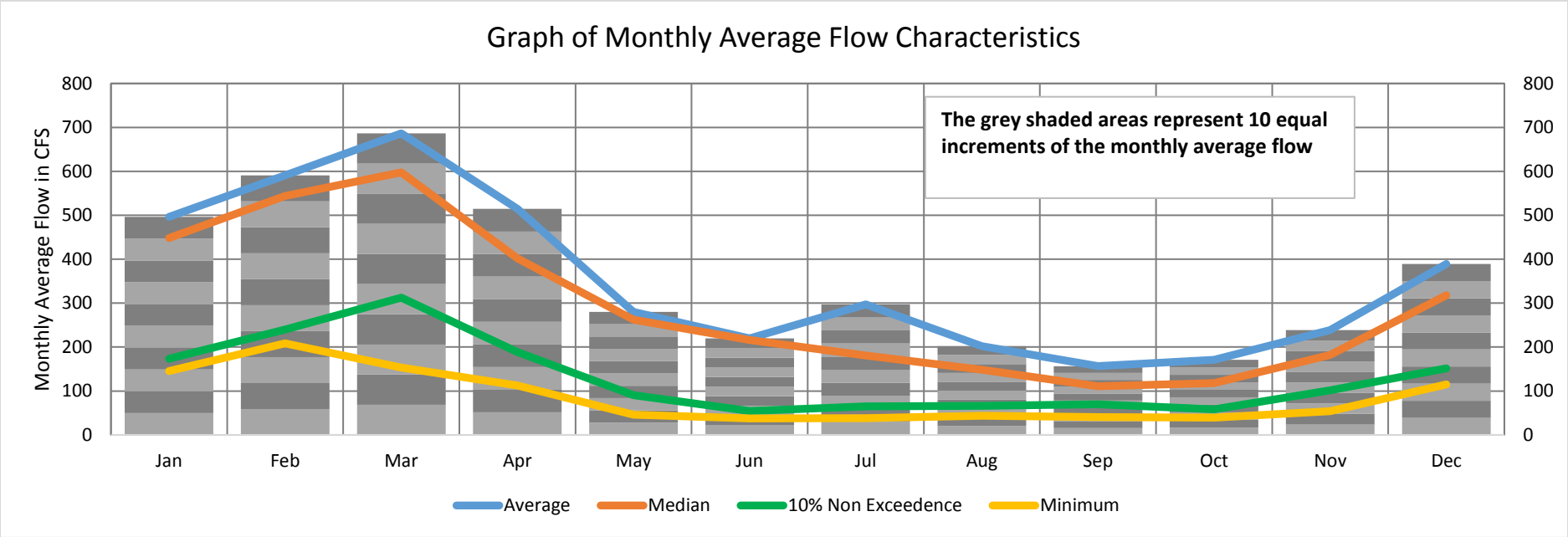
	Flows in CFS
Minimum	37.6
5th %	60
10th %	80
15th %	102
20th %	118
30th %	157
40th %	210
Median	267
60th %	328
70th %	409
80th %	536
90th %	757
Maximum	2,419
Average	354



Q10/Q50	0.30
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.13
Q5/DA	0.21
Q10/DA	0.28
Q15/DA	0.35
Q20/DA	0.41
Q30/DA	0.54
Q40/DA	0.72
Q50/DA	0.92
Q60/DA	1.13
Q70/DA	1.40
Q80/DA	1.84
Q90/DA	2.60
Qmax/DA	8.31

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

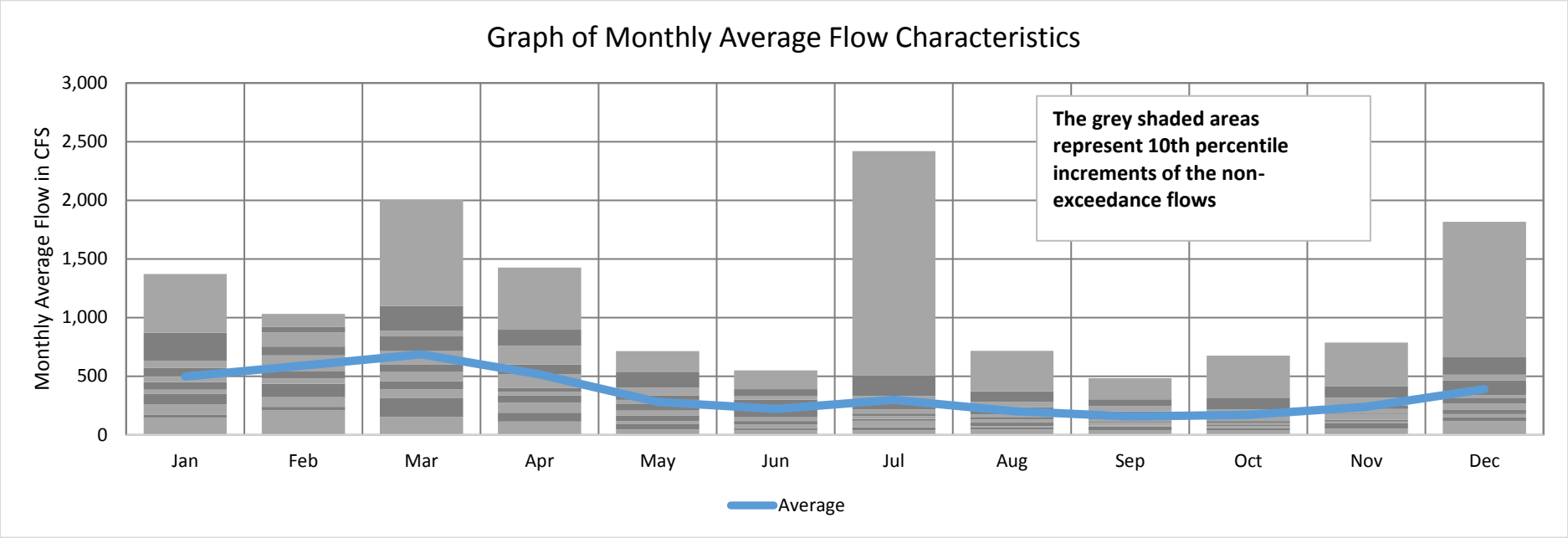
Site #: 02360500 Name: East Fork Choctawhatchee River near Midland City, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	496	591	686	515	280	220	297	202	157	171	238	389
100%	1,372	1,031	2,003	1,425	715	549	2,419	716	483	675	787	1,817
98%	1,215	1,022	1,689	1,406	624	509	1,501	656	397	611	724	1,078
95%	1,089	1,013	1,283	1,055	586	464	776	600	337	467	628	824
90%	872	922	1,100	898	537	390	506	371	303	317	413	666
75%	602	792	874	644	370	312	287	256	227	189	262	496
50%	448	544	598	402	262	216	181	148	111	118	182	318
25%	314	350	430	303	144	103	134	96	78	84	122	191
10%	173	240	312	189	90	54	65	66	70	58	102	152
5%	149	234	297	159	81	43	56	48	55	46	75	137
2%	146	210	237	135	50	40	44	44	48	41	63	121
0%	145	208	153	113	46	38	38	44	40	40	54	115

Site #: 02360500 Name: East Fork Choctawhatchee River near Midland City, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 291 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	496	591	686	515	280	220	297	202	157	171	238	389
100%	1,372	1,031	2,003	1,425	715	549	2,419	716	483	675	787	1,817
98%	1,215	1,022	1,689	1,406	624	509	1,501	656	397	611	724	1,078
95%	1,089	1,013	1,283	1,055	586	464	776	600	337	467	628	824
90%	872	922	1,100	898	537	390	506	371	303	317	413	666
75%	602	792	874	644	370	312	287	256	227	189	262	496
50%	448	544	598	402	262	216	181	148	111	118	182	318
25%	314	350	430	303	144	103	134	96	78	84	122	191
10%	173	240	312	189	90	54	65	66	70	58	102	152
5%	149	234	297	159	81	43	56	48	55	46	75	137
2%	146	210	237	135	50	40	44	44	48	41	63	121
0%	145	208	153	113	46	38	38	44	40	40	54	115

Monthly Flows (in CFS) for

02361000 - Choctawhatchee River near Newton, Ala.

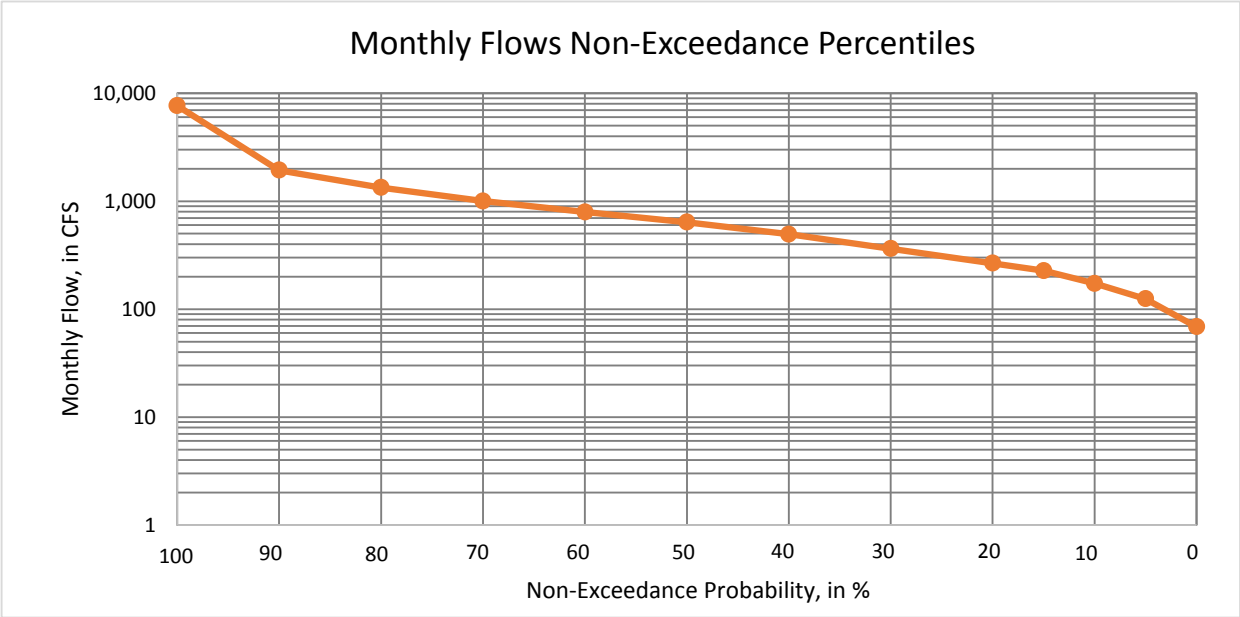
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,459	2,310	2,305	3,832	958	1,370	1,323	1,820	756	1,707	961	1,124	1,654
1976	1,720	1,203	1,337	1,348	1,466	845	523	450	620	1,135	1,793	2,111	1,213
1977	2,332	1,148	2,894	978	359	270	313	643	724	384	1,229	1,091	1,032
1978	3,744	1,701	2,404	1,324	1,500	1,139	512	717	203	191	288	526	1,188
1979	1,289	2,654	1,832	1,936	797	505	821	355	558	438	620	749	1,034
1980	966	788	3,065	2,296	1,173	712	410	280	169	260	280	316	894
1981	337	1,730	1,142	839	270	228	137	252	216	177	208	635	506
1982	1,553	2,708	1,485	1,255	399	295	669	674	324	227	426	1,206	924
1983	1,408	1,867	2,552	2,186	1,101	908	631	366	529	251	570	1,317	1,136
1984	1,502	1,270	2,092	1,474	1,336	405	540	689	166	150	267	417	859
1985	473	2,247	959	528	492	227	381	313	171	328	515	1,229	645
1986	1,079	1,170	1,335	523	220	142	116	148	231	140	312	573	496
1987	1,127	1,264	1,620	871	637	859	327	163	173	78	239	322	636
1988	863	1,091	1,803	738	221	99	576	95	442	211	253	259	552
1989	344	496	757	916	589	1,024	1,249	338	212	766	1,570	1,652	828
1990	3,120	1,924	5,926	1,210	905	573	347	141	112	111	161	363	1,244
1991	1,270	1,702	2,203	961	1,222	777	751	551	262	195	423	471	896
1992	1,707	2,043	2,246	850	351	581	434	468	278	422	2,014	1,379	1,058
1993	1,341	1,316	2,146	1,497	615	270	308	172	271	240	713	792	804
1994	884	1,394	1,670	1,129	702	745	7,668	877	472	767	605	764	1,482
1995	777	2,303	1,509	943	484	347	313	345	124	750	982	1,232	833
1996	1,537	1,917	2,292	2,034	816	516	406	600	1,194	750	589	1,335	1,160
1997	2,243	2,363	1,138	817	735	704	793	345	157	457	988	1,951	1,051
1998	2,191	2,644	4,485	1,937	580	259	496	309	908	1,485	533	643	1,367
1999	1,063	757	941	378	900	796	809	297	155	362	319	432	601
2000	639	621	624	322	89	76	70	126	233	89	296	770	328
2001	901	563	3,412	1,520	264	742	440	304	245	163	236	352	764
2002	405	558	725	705	236	200	228	141	160	195	421	801	397
2003	581	776	1,488	1,932	674	1,233	1,917	1,498	811	436	574	705	1,053
2004	807	1,589	718	513	655	617	400	234	580	389	642	812	656
2005	900	1,012	2,299	2,724	800	946	1,243	1,137	470	278	498	841	1,096
2006	1,134	1,159	1,088	449	473	111	89	142	150	209	405	453	485
2007	704	773	772	1,523	179	82	178	85	98	120	227	639	445
2008	1,184	2,024	949	990	200	125	194	842	230	272	457	2,244	803
2009	996	570	1,958	2,584	1,344	519	624	554	615	652	970	5,236	1,394
2010	2,867	2,676	1,444	695	819	444	293	230	152	146	256	393	858
2011	578	870	758	371	101	69	282	84	75	73	108	276	301
2012	334	491	353	253	178	194	117	575	333	183	136	390	294
2013	386	2,366	1,092	808	464	344	3,338	1,610	726	392	410	1,265	1,095
2014	1,227	1,791	1,297	3,912	1,815	645	338	226	252	485	394	876	1,097

Non-Exceedance Percentiles

02361000 - Choctawhatchee River near Newton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	334	491	353	253	89	69	70	84	75	73	108	259	294
5th %	343	555	713	368	175	81	115	94	112	88	160	314	327
10th %	403	569	754	442	198	110	135	139	147	119	225	349	441
15th %	562	737	770	522	221	139	191	142	155	145	239	386	494
20th %	627	776	948	662	258	199	271	160	159	161	256	413	542
30th %	846	1,067	1,124	814	387	266	313	233	172	194	293	510	653
40th %	940	1,190	1,336	898	489	346	368	301	224	221	401	641	818
Median	1,103	1,355	1,499	984	626	510	422	341	248	266	425	767	876
60th %	1,244	1,713	1,815	1,283	715	595	517	400	296	371	522	824	1,033
70th %	1,423	1,919	2,163	1,504	817	721	626	560	471	426	594	1,149	1,069
80th %	1,584	2,258	2,300	1,936	987	805	796	677	587	518	762	1,275	1,141
90th %	2,252	2,394	2,911	2,325	1,337	954	1,256	903	729	766	1,012	1,682	1,256
Maximum	3,744	2,708	5,926	3,912	1,815	1,370	7,668	1,820	1,194	1,707	2,014	5,236	1,654
Average	1,249	1,496	1,778	1,302	678	523	765	480	364	402	572	974	879

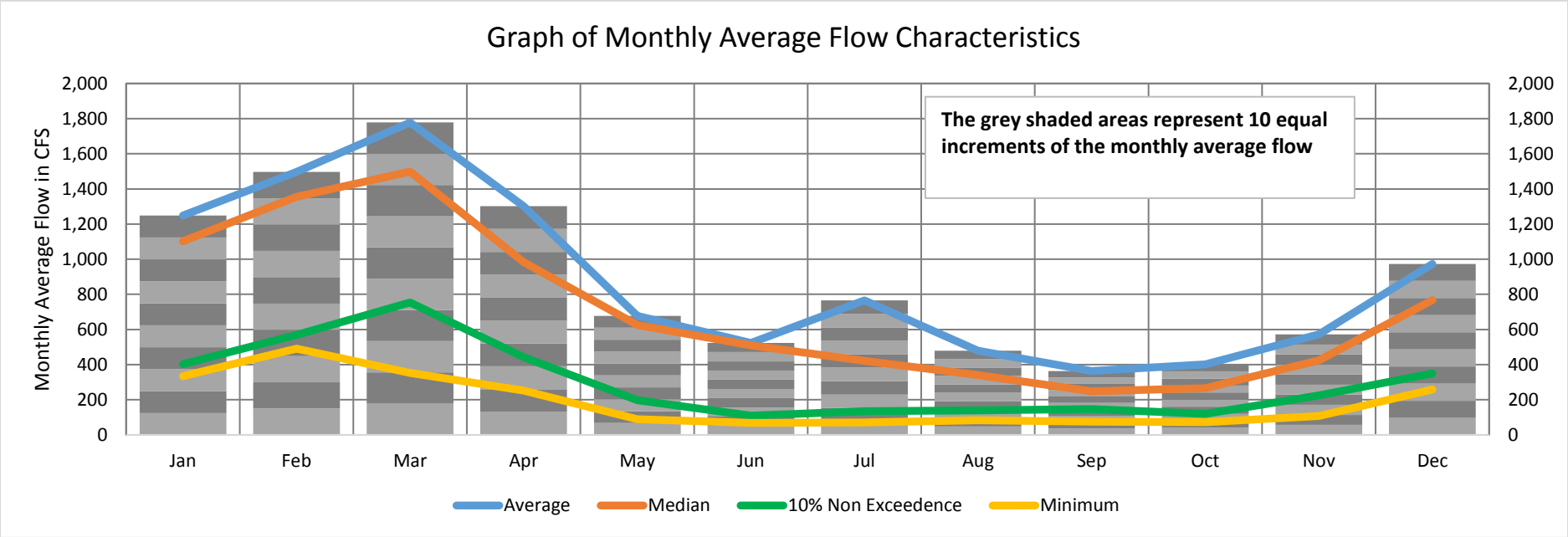
	Flows in CFS
Minimum	68.5
5th %	124
10th %	173
15th %	227
20th %	266
30th %	363
40th %	495
Median	638
60th %	793
70th %	1,001
80th %	1,335
90th %	1,932
Maximum	7,668
Average	882



Q10/Q50	0.27
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.10
Q5/DA	0.18
Q10/DA	0.25
Q15/DA	0.33
Q20/DA	0.39
Q30/DA	0.53
Q40/DA	0.72
Q50/DA	0.93
Q60/DA	1.16
Q70/DA	1.46
Q80/DA	1.95
Q90/DA	2.82
Qmax/DA	11.18

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

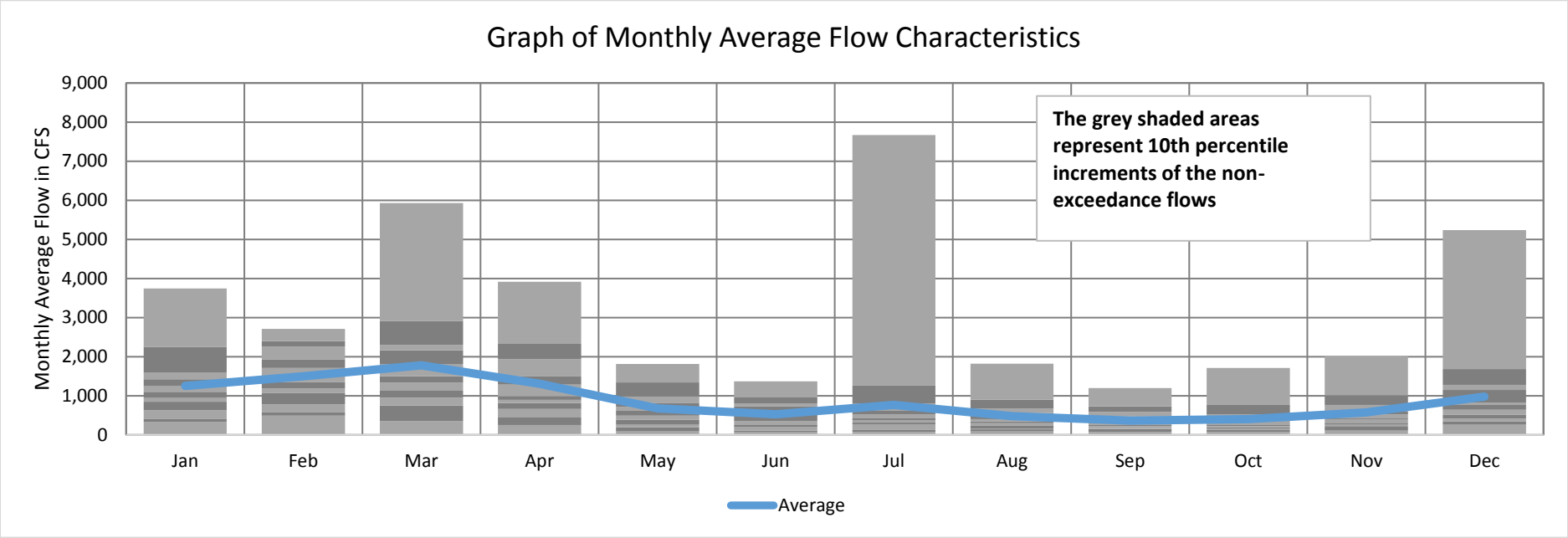
Site #: 02361000 Name: Choctawhatchee River near Newton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,249	1,496	1,778	1,302	678	523	765	480	364	402	572	974
100%	3,744	2,708	5,926	3,912	1,815	1,370	7,668	1,820	1,194	1,707	2,014	5,236
98%	3,257	2,683	4,802	3,850	1,569	1,263	4,291	1,656	971	1,534	1,842	2,902
95%	2,880	2,655	3,466	2,779	1,468	1,144	1,988	1,504	815	1,153	1,581	2,118
90%	2,252	2,394	2,911	2,325	1,337	954	1,256	903	729	766	1,012	1,682
75%	1,511	2,029	2,258	1,625	902	753	689	611	536	443	625	1,230
50%	1,103	1,355	1,499	984	626	510	422	341	248	266	425	767
25%	759	849	1,056	729	330	228	304	213	168	181	277	447
10%	403	569	754	442	198	110	135	139	147	119	225	349
5%	343	555	713	368	175	81	115	94	112	88	160	314
2%	336	495	564	307	98	75	85	84	93	77	130	272
0%	334	491	353	253	89	69	70	84	75	73	108	259

Site #: 02361000 Name: Choctawhatchee River near Newton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 686 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,249	1,496	1,778	1,302	678	523	765	480	364	402	572	974
100%	3,744	2,708	5,926	3,912	1,815	1,370	7,668	1,820	1,194	1,707	2,014	5,236
98%	3,257	2,683	4,802	3,850	1,569	1,263	4,291	1,656	971	1,534	1,842	2,902
95%	2,880	2,655	3,466	2,779	1,468	1,144	1,988	1,504	815	1,153	1,581	2,118
90%	2,252	2,394	2,911	2,325	1,337	954	1,256	903	729	766	1,012	1,682
75%	1,511	2,029	2,258	1,625	902	753	689	611	536	443	625	1,230
50%	1,103	1,355	1,499	984	626	510	422	341	248	266	425	767
25%	759	849	1,056	729	330	228	304	213	168	181	277	447
10%	403	569	754	442	198	110	135	139	147	119	225	349
5%	343	555	713	368	175	81	115	94	112	88	160	314
2%	336	495	564	307	98	75	85	84	93	77	130	272
0%	334	491	353	253	89	69	70	84	75	73	108	259

Monthly Flows (in CFS) for

02361500 - Choctawhatchee River near Bellwood, Ala.

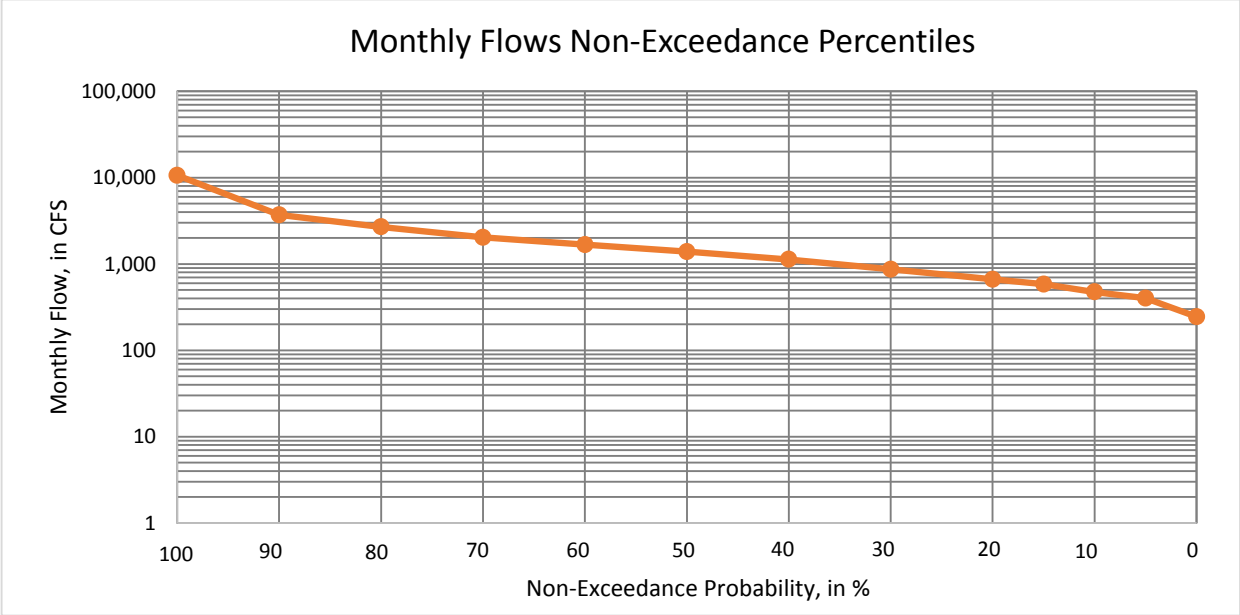
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,898	4,350	4,342	6,636	1,985	2,739	2,655	3,529	1,604	3,334	1,991	2,293	3,186
1976	3,357	2,437	2,680	2,700	2,911	1,772	1,158	1,016	1,345	2,313	3,483	4,022	2,434
1977	4,386	2,337	5,275	2,023	837	660	747	1,389	1,543	887	2,485	2,232	2,069
1978	6,515	3,324	4,503	2,657	2,971	2,320	1,137	1,531	527	504	696	1,164	2,321
1979	2,593	4,902	3,550	3,727	1,683	1,123	1,729	829	1,224	992	1,344	1,592	2,087
1980	1,999	1,665	5,534	4,327	2,382	1,521	937	681	461	640	682	752	1,800
1981	793	3,374	2,326	1,762	660	578	397	625	553	476	537	1,373	1,106
1982	3,065	4,987	2,945	2,532	916	711	1,439	1,449	768	576	968	2,443	1,882
1983	2,807	3,610	4,740	4,146	2,250	1,891	1,366	851	1,170	624	1,249	2,644	2,270
1984	2,975	2,559	3,990	2,925	2,678	927	1,190	1,478	453	421	655	952	1,766
1985	1,059	4,247	1,987	1,166	1,098	575	881	746	463	776	1,142	2,485	1,368
1986	2,210	2,377	2,676	1,158	562	405	354	419	584	402	745	1,255	1,089
1987	2,298	2,548	3,183	1,823	1,377	1,799	773	448	468	276	600	765	1,355
1988	1,807	2,232	3,500	1,570	564	319	1,259	311	1,000	545	628	639	1,193
1989	807	1,105	1,607	1,906	1,285	2,108	2,521	795	545	1,624	3,095	3,239	1,723
1990	5,616	3,707	9,130	2,450	1,887	1,255	813	404	346	343	444	845	2,271
1991	2,559	3,326	4,175	1,990	2,472	1,645	1,595	1,211	646	512	963	1,056	1,839
1992	3,334	3,908	4,245	1,783	821	1,269	984	1,050	677	961	3,859	2,755	2,125
1993	2,687	2,642	4,080	2,966	1,336	661	737	466	663	602	1,522	1,674	1,664
1994	1,846	2,782	3,270	2,302	1,502	1,584	10,631	1,834	1,057	1,626	1,316	1,620	2,624
1995	1,645	4,339	2,987	1,958	1,081	814	747	810	369	1,593	2,030	2,490	1,722
1996	3,037	3,695	4,321	3,893	1,718	1,143	930	1,306	2,421	1,593	1,285	2,676	2,325
1997	4,240	4,437	2,318	1,720	1,566	1,505	1,676	810	435	1,029	2,041	3,753	2,116
1998	4,155	4,886	7,495	3,729	1,267	639	1,105	739	1,891	2,945	1,177	1,389	2,608
1999	2,180	1,607	1,954	873	1,878	1,680	1,704	714	432	842	758	981	1,302
2000	1,381	1,346	1,352	765	299	273	261	373	587	299	712	1,632	771
2001	1,647	1,135	6,064	2,667	761	1,727	1,026	1,032	758	474	528	685	1,547
2002	841	1,004	1,489	1,553	441	459	579	447	413	558	1,163	1,702	886
2003	1,232	1,611	3,284	3,635	1,298	2,425	3,647	3,140	1,602	918	1,168	1,363	2,113
2004	1,498	3,402	1,510	1,051	1,621	1,967	1,218	625	1,671	1,022	1,615	1,969	1,583
2005	1,979	2,034	3,661	6,120	1,950	1,913	2,546	3,234	1,244	758	1,159	1,793	2,366
2006	2,435	2,301	2,008	945	1,014	384	330	494	484	595	1,080	1,065	1,089
2007	1,630	1,677	1,558	2,994	430	262	650	303	406	474	744	1,555	1,051
2008	2,415	3,896	1,819	1,885	534	502	540	1,501	598	649	802	3,652	1,554
2009	1,760	1,268	4,196	5,299	2,720	1,226	1,429	1,371	1,270	1,522	1,856	8,968	2,756
2010	5,159	5,262	2,700	1,464	1,606	937	667	630	404	423	598	794	1,701
2011	1,097	1,575	1,439	767	313	245	647	309	292	255	314	618	651
2012	885	1,216	1,017	711	467	569	382	1,971	1,246	709	530	1,076	897
2013	967	6,260	2,696	1,892	1,134	956	6,298	3,551	1,891	1,095	1,092	2,807	2,535
2014	2,651	3,555	2,875	7,406	4,065	1,583	1,032	713	666	1,093	872	1,770	2,344

Non-Exceedance Percentiles

02361500 - Choctawhatchee River near Bellwood, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	793	1,004	1,017	711	299	245	261	303	292	255	314	618	651
5th %	839	1,134	1,435	767	424	273	352	311	368	298	524	682	881
10th %	959	1,263	1,508	938	464	378	395	401	406	396	536	763	1,036
15th %	1,091	1,541	1,600	1,142	557	451	573	443	430	423	600	838	1,089
20th %	1,351	1,610	1,927	1,404	641	555	649	462	450	474	650	975	1,175
30th %	1,646	2,173	2,323	1,750	892	654	747	628	479	535	734	1,138	1,493
40th %	1,926	2,413	2,698	1,889	1,119	882	910	729	572	599	844	1,382	1,686
Median	2,254	2,712	3,085	2,006	1,317	1,133	1,029	810	654	679	1,086	1,626	1,783
60th %	2,573	3,385	3,520	2,582	1,582	1,363	1,171	1,023	762	860	1,165	1,779	2,076
70th %	2,835	3,699	4,108	2,937	1,766	1,602	1,385	1,326	1,186	1,001	1,294	2,338	2,169
80th %	3,119	4,265	4,325	3,728	2,038	1,778	1,682	1,482	1,285	1,180	1,663	2,650	2,329
90th %	4,255	4,888	5,300	4,425	2,682	1,981	2,557	2,088	1,611	1,624	2,085	3,280	2,542
Maximum	6,515	6,260	9,130	7,406	4,065	2,739	10,631	3,551	2,421	3,334	3,859	8,968	3,186
Average	2,461	2,973	3,362	2,597	1,458	1,177	1,518	1,128	879	932	1,248	1,963	1,802

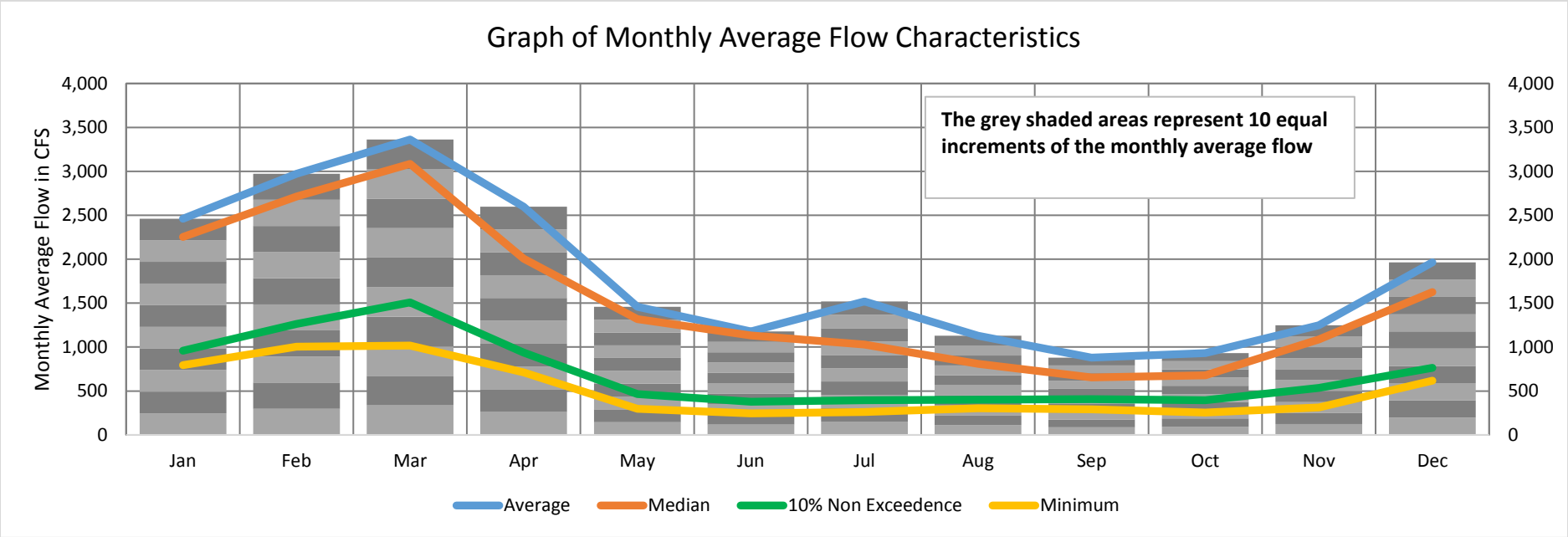
	Flows in CFS
Minimum	245.0
5th %	402
10th %	474
15th %	583
20th %	662
30th %	866
40th %	1,129
Median	1,389
60th %	1,672
70th %	2,031
80th %	2,689
90th %	3,696
Maximum	10,631
Average	1,808



Q10/Q50	0.34
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.19
Q5/DA	0.31
Q10/DA	0.37
Q15/DA	0.46
Q20/DA	0.52
Q30/DA	0.68
Q40/DA	0.88
Q50/DA	1.08
Q60/DA	1.31
Q70/DA	1.59
Q80/DA	2.10
Q90/DA	2.89
Qmax/DA	8.31

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

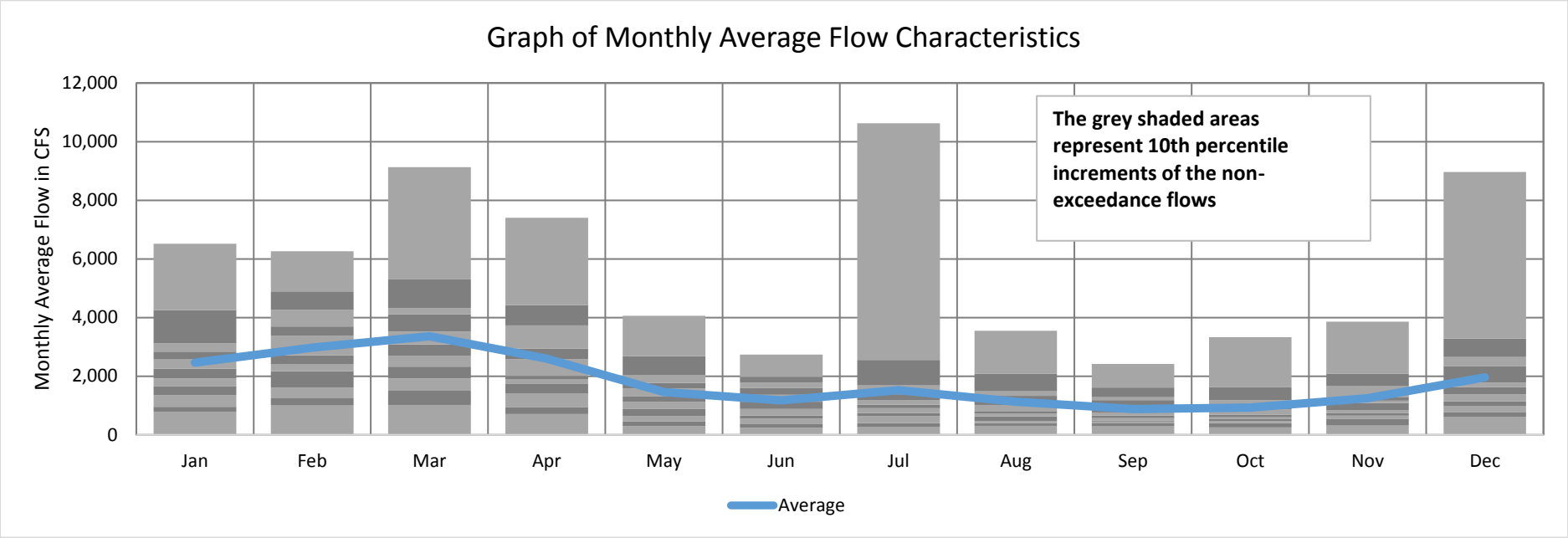
Site #: 02361500 Name: Choctawhatchee River near Bellwood, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,461	2,973	3,362	2,597	1,458	1,177	1,518	1,128	879	932	1,248	1,963
100%	6,515	6,260	9,130	7,406	4,065	2,739	10,631	3,551	2,421	3,334	3,859	8,968
98%	5,814	5,482	7,855	6,806	3,212	2,494	7,251	3,534	2,008	3,030	3,566	5,110
95%	5,182	5,000	6,136	6,146	2,914	2,325	3,780	3,249	1,891	2,344	3,114	3,766
90%	4,255	4,888	5,300	4,425	2,682	1,981	2,557	2,088	1,611	1,624	2,085	3,280
75%	2,990	3,899	4,208	3,154	1,902	1,692	1,478	1,404	1,245	1,045	1,389	2,486
50%	2,254	2,712	3,085	2,006	1,317	1,133	1,029	810	654	679	1,086	1,626
25%	1,597	1,674	2,003	1,566	806	577	719	592	462	497	692	1,063
10%	959	1,263	1,508	938	464	378	395	401	406	396	536	763
5%	839	1,134	1,435	767	424	273	352	311	368	298	524	682
2%	804	1,083	1,278	753	310	258	315	308	334	272	415	634
0%	793	1,004	1,017	711	299	245	261	303	292	255	314	618

Site #: 02361500 Name: Choctawhatchee River near Bellwood, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,280 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,461	2,973	3,362	2,597	1,458	1,177	1,518	1,128	879	932	1,248	1,963
100%	6,515	6,260	9,130	7,406	4,065	2,739	10,631	3,551	2,421	3,334	3,859	8,968
98%	5,814	5,482	7,855	6,806	3,212	2,494	7,251	3,534	2,008	3,030	3,566	5,110
95%	5,182	5,000	6,136	6,146	2,914	2,325	3,780	3,249	1,891	2,344	3,114	3,766
90%	4,255	4,888	5,300	4,425	2,682	1,981	2,557	2,088	1,611	1,624	2,085	3,280
75%	2,990	3,899	4,208	3,154	1,902	1,692	1,478	1,404	1,245	1,045	1,389	2,486
50%	2,254	2,712	3,085	2,006	1,317	1,133	1,029	810	654	679	1,086	1,626
25%	1,597	1,674	2,003	1,566	806	577	719	592	462	497	692	1,063
10%	959	1,263	1,508	938	464	378	395	401	406	396	536	763
5%	839	1,134	1,435	767	424	273	352	311	368	298	524	682
2%	804	1,083	1,278	753	310	258	315	308	334	272	415	634
0%	793	1,004	1,017	711	299	245	261	303	292	255	314	618

Monthly Flows (in CFS) for

02362000 - Choctawhatchee River near Geneva, Ala.

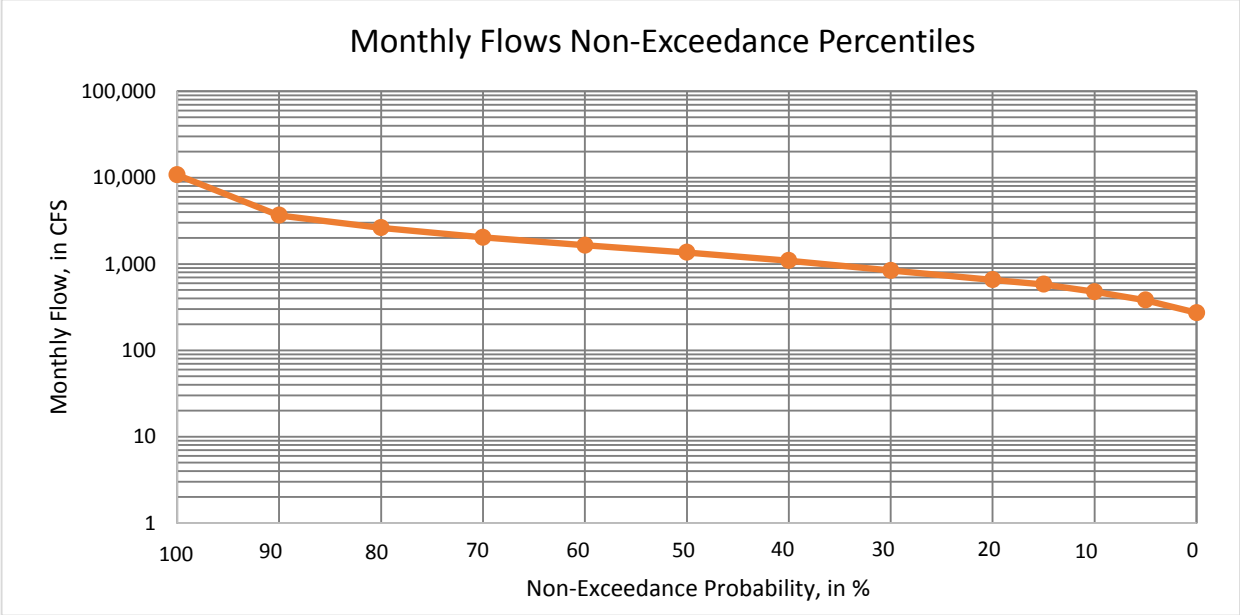
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,840	4,267	4,259	6,546	1,948	2,684	2,601	3,458	1,577	3,267	1,954	2,248	3,128
1976	3,289	2,389	2,626	2,645	2,852	1,741	1,144	1,007	1,326	2,268	3,413	3,943	2,388
1977	4,302	2,291	5,183	1,985	833	662	746	1,368	1,518	881	2,435	2,189	2,035
1978	6,424	3,257	4,418	2,603	2,911	2,275	1,123	1,506	533	511	696	1,150	2,284
1979	2,541	4,813	3,479	3,653	1,654	1,110	1,699	825	1,209	983	1,325	1,566	2,051
1980	1,962	1,636	5,441	4,244	2,335	1,496	930	681	468	642	682	750	1,774
1981	790	3,306	2,280	1,731	662	582	406	627	558	483	542	1,353	1,095
1982	3,003	4,897	2,885	2,481	909	711	1,417	1,427	766	580	960	2,394	1,851
1983	2,751	3,538	4,653	4,066	2,207	1,857	1,346	846	1,155	627	1,232	2,591	2,230
1984	2,914	2,508	3,912	2,866	2,624	920	1,175	1,455	461	430	657	944	1,738
1985	1,048	4,165	1,950	1,152	1,086	579	875	745	471	774	1,129	2,435	1,350
1986	2,167	2,330	2,623	1,144	566	415	365	428	588	412	744	1,238	1,079
1987	2,253	2,497	3,118	1,790	1,356	1,767	771	456	476	290	603	763	1,338
1988	1,774	2,189	3,430	1,544	569	331	1,242	324	990	550	630	641	1,180
1989	804	1,093	1,580	1,872	1,268	2,068	2,471	792	550	1,597	3,032	3,173	1,694
1990	5,523	3,633	9,110	2,401	1,852	1,238	810	414	357	355	452	841	2,250
1991	2,508	3,258	4,093	1,953	2,423	1,617	1,569	1,196	648	518	955	1,045	1,809
1992	3,267	3,831	4,163	1,751	817	1,252	975	1,040	678	953	3,783	2,700	2,089
1993	2,633	2,589	4,000	2,906	1,317	662	736	473	664	605	1,498	1,645	1,639
1994	1,813	2,726	3,204	2,257	1,478	1,558	10,738	1,801	1,046	1,598	1,298	1,592	2,603
1995	1,617	4,255	2,927	1,921	1,070	811	746	807	380	1,567	1,992	2,441	1,695
1996	2,975	3,621	4,238	3,816	1,688	1,130	923	1,288	2,373	1,567	1,267	2,623	2,283
1997	4,158	4,352	2,273	1,690	1,540	1,481	1,647	807	444	1,019	2,002	3,678	2,080
1998	4,074	4,797	7,417	3,655	1,250	641	1,093	738	1,857	2,885	1,162	1,368	2,568
1999	2,138	1,580	1,918	868	1,843	1,651	1,675	714	441	838	756	972	1,284
2000	1,360	1,327	1,332	763	312	287	276	383	591	312	711	1,604	769
2001	1,845	1,219	5,952	2,946	650	1,553	987	728	613	457	597	819	1,534
2002	921	1,209	1,521	1,483	598	528	581	413	450	517	951	1,660	901
2003	1,252	1,616	2,890	3,646	1,427	2,442	3,621	2,907	1,679	979	1,240	1,484	2,101
2004	1,672	3,065	1,508	1,125	1,391	1,320	910	594	1,250	889	1,367	1,681	1,386
2005	1,842	2,046	4,249	4,921	1,660	1,926	2,460	2,271	1,044	678	1,096	1,735	2,161
2006	2,266	2,310	2,183	1,004	1,050	355	313	415	430	544	920	1,011	1,061
2007	1,483	1,609	1,608	2,951	488	298	485	304	331	373	580	1,361	984
2008	2,355	3,799	1,933	2,006	527	381	516	1,736	586	667	1,019	4,160	1,630
2009	2,018	1,232	3,690	4,703	2,638	1,136	1,332	1,201	1,317	1,386	1,970	8,338	2,595
2010	5,142	4,847	2,814	1,466	1,695	993	706	585	435	424	636	898	1,703
2011	1,246	1,788	1,581	855	335	272	685	302	285	282	349	674	716
2012	785	1,083	821	629	486	517	367	1,240	783	495	403	891	707
2013	885	4,357	2,190	1,673	1,031	803	5,845	3,101	1,522	895	929	2,499	2,136
2014	2,432	3,409	2,556	6,656	3,450	1,372	793	578	628	1,071	900	1,799	2,124

Non-Exceedance Percentiles

02362000 - Choctawhatchee River near Geneva, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	785	1,083	821	629	312	272	276	302	285	282	349	641	707
5th %	803	1,204	1,499	851	478	297	362	323	356	311	450	746	766
10th %	918	1,231	1,574	991	523	353	402	410	425	371	576	814	975
15th %	1,217	1,542	1,604	1,141	569	410	511	414	440	422	602	884	1,076
20th %	1,339	1,614	1,930	1,403	640	526	664	450	449	451	635	935	1,163
30th %	1,744	2,146	2,248	1,685	886	655	746	591	474	515	707	1,119	1,375
40th %	1,915	2,365	2,625	1,839	1,079	808	849	723	575	568	912	1,365	1,672
Median	2,210	2,658	2,908	1,995	1,337	1,120	953	799	621	654	958	1,598	1,756
60th %	2,462	3,277	3,449	2,530	1,503	1,279	1,132	910	713	855	1,142	1,703	2,041
70th %	2,777	3,625	4,028	2,918	1,690	1,513	1,336	1,213	1,045	961	1,276	2,292	2,108
80th %	3,056	4,183	4,251	3,653	2,000	1,669	1,653	1,432	1,264	1,134	1,589	2,517	2,234
90th %	4,173	4,401	5,209	4,290	2,626	1,940	2,484	1,848	1,527	1,597	2,046	3,223	2,406
Maximum	6,424	4,897	9,110	6,656	3,450	2,684	10,738	3,458	2,373	3,267	3,783	8,338	3,128
Average	2,427	2,868	3,300	2,509	1,420	1,136	1,477	1,049	837	904	1,222	1,922	1,751

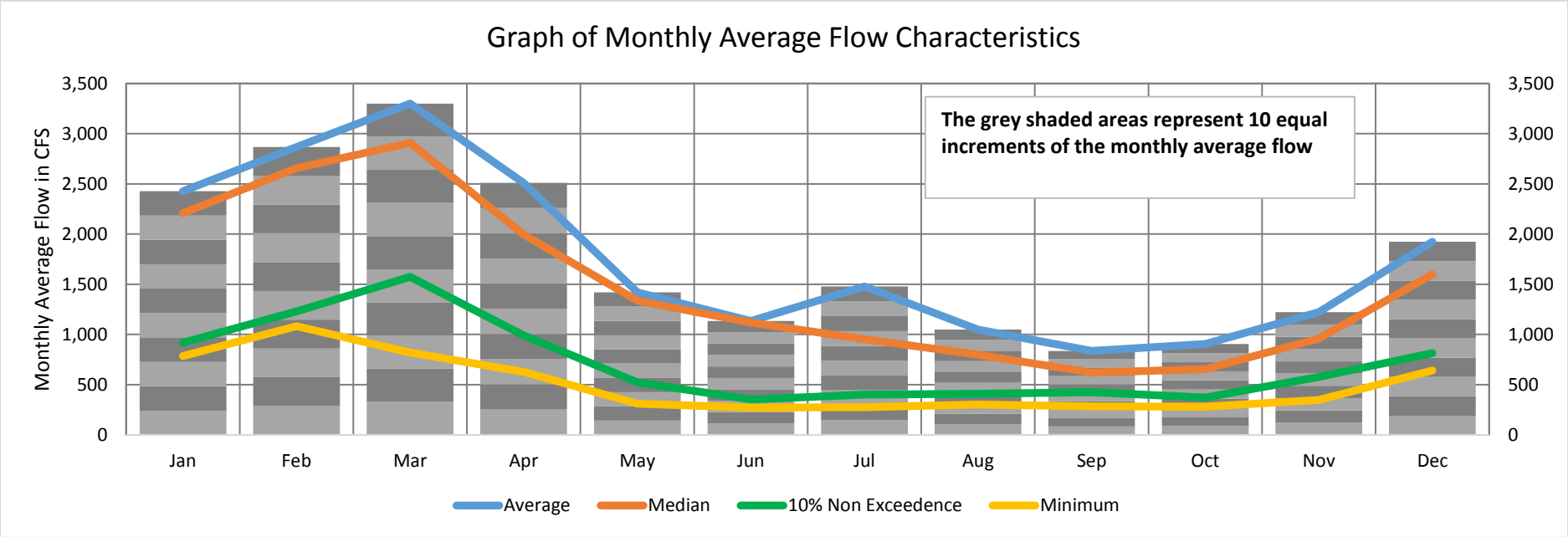
	Flows in CFS
Minimum	272.3
5th %	381
10th %	476
15th %	580
20th %	655
30th %	840
40th %	1,090
Median	1,358
60th %	1,646
70th %	2,026
80th %	2,623
90th %	3,647
Maximum	10,738
Average	1,756



Q10/Q50	0.35
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.20
Q5/DA	0.28
Q10/DA	0.35
Q15/DA	0.43
Q20/DA	0.49
Q30/DA	0.62
Q40/DA	0.81
Q50/DA	1.01
Q60/DA	1.22
Q70/DA	1.51
Q80/DA	1.95
Q90/DA	2.71
Qmax/DA	7.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

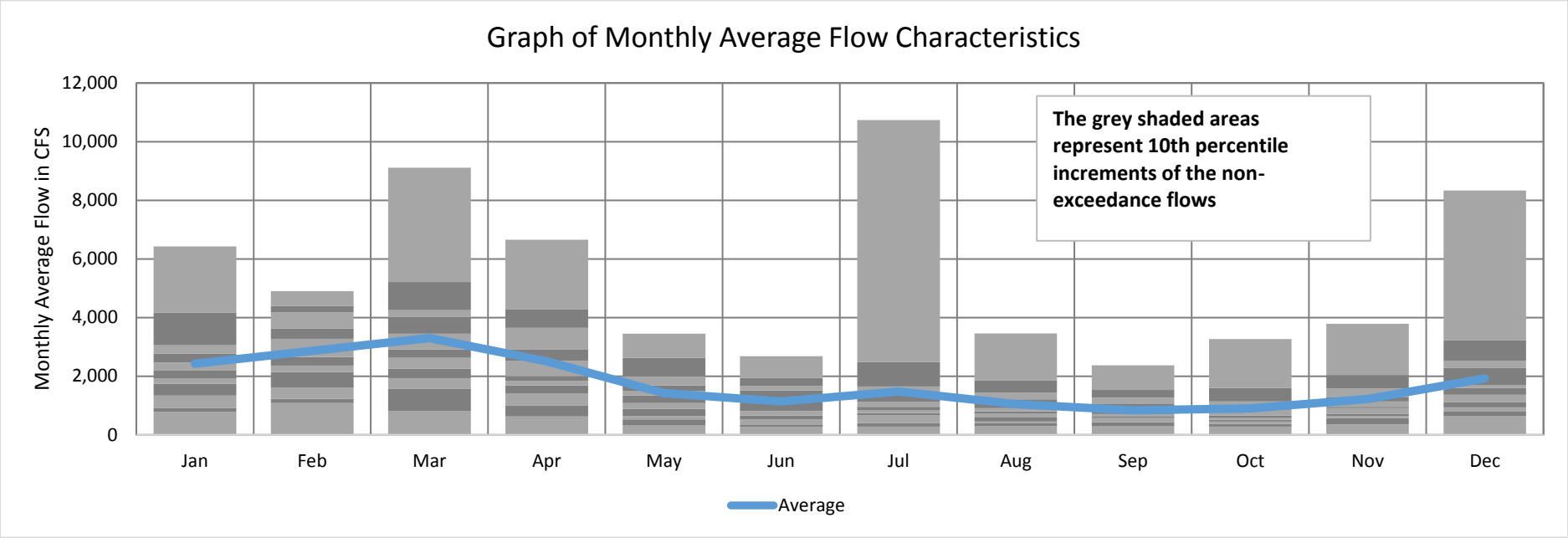
Site #: 02362000 Name: Choctawhatchee River near Geneva, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,427	2,868	3,300	2,509	1,420	1,136	1,477	1,049	837	904	1,222	1,922
100%	6,424	4,897	9,110	6,656	3,450	2,684	10,738	3,458	2,373	3,267	3,783	8,338
98%	5,722	4,858	7,789	6,570	3,030	2,495	6,921	3,180	1,970	2,969	3,494	5,079
95%	5,161	4,814	6,025	5,003	2,855	2,283	3,732	2,917	1,688	2,298	3,051	3,954
90%	4,173	4,401	5,209	4,290	2,626	1,940	2,484	1,848	1,527	1,597	2,046	3,223
75%	2,930	3,807	4,182	3,125	1,846	1,573	1,455	1,308	1,169	992	1,335	2,437
50%	2,210	2,658	2,908	1,995	1,337	1,120	953	799	621	654	958	1,598
25%	1,584	1,750	2,125	1,529	778	581	728	552	467	492	676	1,001
10%	918	1,231	1,574	991	523	353	402	410	425	371	576	814
5%	803	1,204	1,499	851	478	297	362	323	356	311	450	746
2%	789	1,091	1,220	733	330	284	305	303	321	288	391	667
0%	785	1,083	821	629	312	272	276	302	285	282	349	641

Site #: 02362000 Name: Choctawhatchee River near Geneva, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,346 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,427	2,868	3,300	2,509	1,420	1,136	1,477	1,049	837	904	1,222	1,922
100%	6,424	4,897	9,110	6,656	3,450	2,684	10,738	3,458	2,373	3,267	3,783	8,338
98%	5,722	4,858	7,789	6,570	3,030	2,495	6,921	3,180	1,970	2,969	3,494	5,079
95%	5,161	4,814	6,025	5,003	2,855	2,283	3,732	2,917	1,688	2,298	3,051	3,954
90%	4,173	4,401	5,209	4,290	2,626	1,940	2,484	1,848	1,527	1,597	2,046	3,223
75%	2,930	3,807	4,182	3,125	1,846	1,573	1,455	1,308	1,169	992	1,335	2,437
50%	2,210	2,658	2,908	1,995	1,337	1,120	953	799	621	654	958	1,598
25%	1,584	1,750	2,125	1,529	778	581	728	552	467	492	676	1,001
10%	918	1,231	1,574	991	523	353	402	410	425	371	576	814
5%	803	1,204	1,499	851	478	297	362	323	356	311	450	746
2%	789	1,091	1,220	733	330	284	305	303	321	288	391	667
0%	785	1,083	821	629	312	272	276	302	285	282	349	641

Monthly Flows (in CFS) for
02363000 - Pea River near Ariton, Ala.

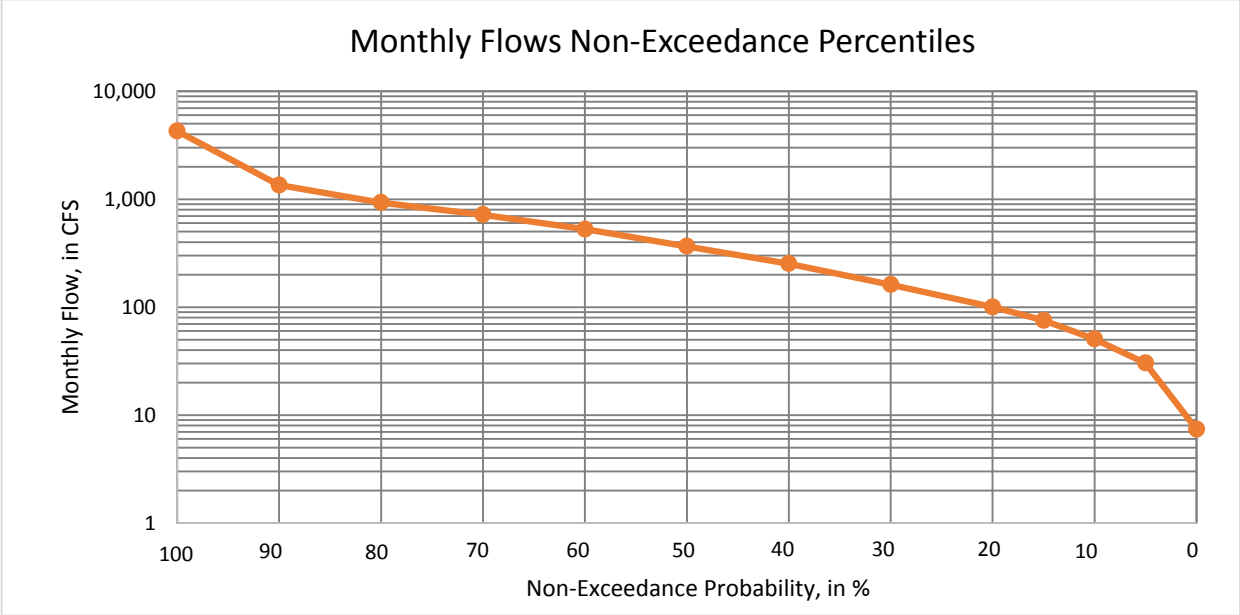
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	994	1,618	1,614	2,603	608	926	890	1,265	451	1,181	610	736	1,120
1976	1,191	798	901	909	999	520	277	225	349	745	1,245	1,477	803
1977	1,633	755	2,015	623	162	105	133	366	427	179	818	711	662
1978	2,550	1,177	1,683	891	1,025	748	269	422	67	61	116	279	774
1979	864	1,855	1,274	1,350	483	264	502	160	302	216	348	447	663
1980	614	476	2,127	1,608	774	418	197	112	50	99	112	134	561
1981	148	1,198	750	516	105	81	35	95	74	54	70	360	284
1982	1,065	1,891	1,014	838	189	121	385	390	139	81	208	800	586
1983	955	1,299	1,786	1,530	719	569	357	167	282	95	312	885	742
1984	1,027	849	1,463	1,005	900	193	289	401	48	41	104	202	543
1985	241	1,573	608	280	255	81	177	132	51	142	271	818	378
1986	702	772	899	277	77	37	26	40	83	37	132	314	281
1987	739	845	1,116	541	361	531	141	47	52	11	61	137	379
1988	702	594	1,120	540	100	23	140	21	64	99	127	115	303
1989	212	317	978	1,109	585	879	726	145	99	321	953	1,027	613
1990	2,169	1,490	4,272	758	622	376	114	35	19	23	43	129	838
1991	584	877	1,434	606	1,003	702	483	326	145	73	329	475	585
1992	1,661	1,487	989	425	100	217	102	163	96	82	1,225	1,271	646
1993	1,051	1,034	1,504	1,016	243	70	104	42	96	73	390	507	508
1994	560	1,143	891	656	266	479	3,587	525	283	461	305	638	818
1995	970	1,825	1,591	633	215	166	115	97	25	1,333	687	1,036	719
1996	1,360	1,657	1,564	1,416	413	251	171	216	680	234	330	540	729
1997	883	1,811	756	666	532	439	311	127	31	152	842	1,864	694
1998	1,488	2,147	2,955	1,298	315	90	164	73	247	713	198	330	828
1999	651	584	1,168	331	382	525	533	253	56	134	101	214	411
2000	365	246	649	225	33	15	7	21	41	21	136	407	181
2001	423	282	2,928	1,132	126	543	175	220	115	60	262	257	546
2002	374	538	825	644	142	136	66	51	44	136	394	589	327
2003	445	759	1,514	1,348	570	1,085	1,470	1,188	521	216	391	587	842
2004	836	1,507	500	165	370	226	116	100	495	175	422	568	449
2005	474	695	1,287	1,834	313	391	732	701	199	115	139	475	612
2006	492	603	693	227	371	26	19	24	28	35	330	213	253
2007	503	433	708	799	80	19	74	17	18	26	72	249	248
2008	724	1,021	798	719	93	29	44	871	140	124	169	1,204	493
2009	690	310	1,671	1,373	1,062	365	229	213	410	237	848	3,667	930
2010	1,960	1,788	1,237	413	681	236	80	59	51	37	94	189	563
2011	295	654	729	310	31	11	42	15	10	11	30	164	189
2012	274	477	328	339	142	111	55	39	73	40	35	351	187
2013	321	1,882	1,037	717	228	93	1,458	1,068	180	95	127	743	657
2014	907	1,277	866	2,488	731	348	202	76	60	108	126	353	622

Non-Exceedance Percentiles

02363000 - Pea River near Ariton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	148	246	328	165	31	11	7	15	10	11	30	115	181
5th %	239	309	603	227	75	19	26	20	19	20	43	134	189
10th %	293	421	688	280	92	26	42	23	28	25	69	162	253
15th %	359	477	726	328	100	36	53	38	39	36	91	200	284
20th %	413	575	755	398	122	78	72	41	48	39	103	214	322
30th %	500	683	883	540	181	102	111	68	52	61	126	304	438
40th %	636	787	984	640	250	154	137	99	66	81	138	357	545
Median	713	949	1,118	718	338	231	173	139	89	99	235	475	586
60th %	871	1,185	1,279	859	395	355	213	186	125	128	319	575	631
70th %	977	1,488	1,507	1,044	574	424	296	233	186	159	361	719	673
80th %	1,090	1,626	1,626	1,348	689	526	487	392	286	220	460	831	749
90th %	1,636	1,828	2,026	1,538	910	707	748	718	429	486	843	1,211	829
Maximum	2,550	2,147	4,272	2,603	1,062	1,085	3,587	1,265	680	1,333	1,245	3,667	1,120
Average	852	1,064	1,306	879	410	311	375	263	165	202	338	637	564

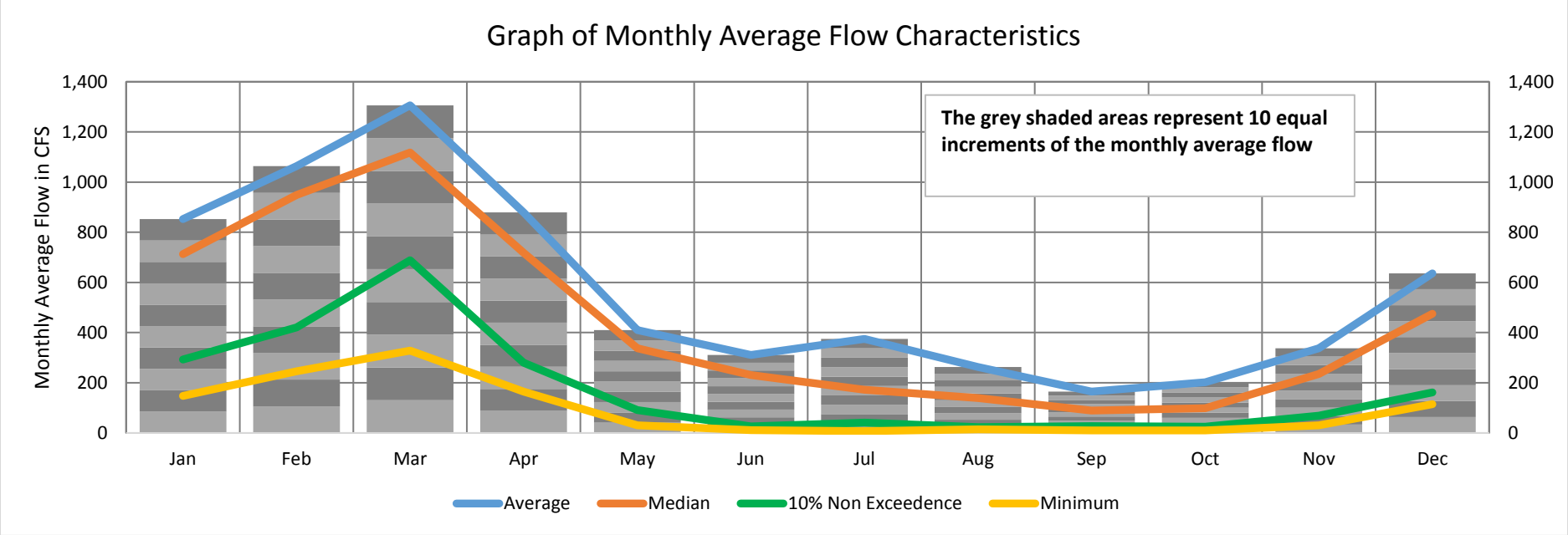
	Flows in CFS
Minimum	7.4
5th %	30
10th %	51
15th %	75
20th %	100
30th %	162
40th %	252
Median	366
60th %	527
70th %	718
80th %	932
90th %	1,351
Maximum	4,272
Average	567



Q10/Q50	0.14
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.01
Q5/DA	0.06
Q10/DA	0.10
Q15/DA	0.15
Q20/DA	0.20
Q30/DA	0.32
Q40/DA	0.51
Q50/DA	0.73
Q60/DA	1.06
Q70/DA	1.44
Q80/DA	1.87
Q90/DA	2.71
Qmax/DA	8.58

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

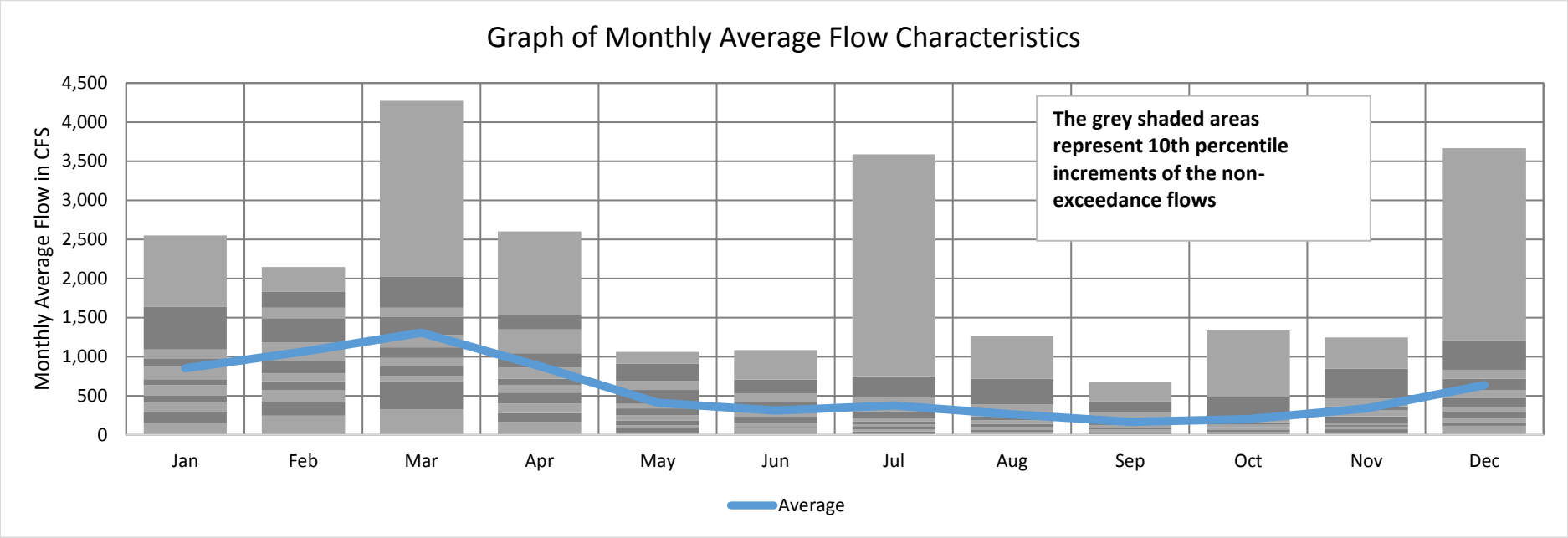
Site #: 02363000 Name: Pea River near Ariton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	852	1,064	1,306	879	410	311	375	263	165	202	338	637
100%	2,550	2,147	4,272	2,603	1,062	1,085	3,587	1,265	680	1,333	1,245	3,667
98%	2,253	1,948	3,245	2,513	1,033	961	1,936	1,205	556	1,214	1,229	2,261
95%	1,970	1,882	2,929	1,867	1,004	881	1,459	1,074	496	767	967	1,496
90%	1,636	1,828	2,026	1,538	910	707	748	718	429	486	843	1,211
75%	1,033	1,524	1,571	1,174	611	489	364	336	256	188	392	758
50%	713	949	1,118	718	338	231	173	139	89	99	235	475
25%	467	601	818	493	142	88	96	50	51	51	115	255
10%	293	421	688	280	92	26	42	23	28	25	69	162
5%	239	309	603	227	75	19	26	20	19	20	43	134
2%	198	274	462	212	32	14	17	16	16	11	34	126
0%	148	246	328	165	31	11	7.4	15	9.9	11	30	115

Site #: 02363000 Name: Pea River near Ariton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 498 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	852	1,064	1,306	879	410	311	375	263	165	202	338	637
100%	2,550	2,147	4,272	2,603	1,062	1,085	3,587	1,265	680	1,333	1,245	3,667
98%	2,253	1,948	3,245	2,513	1,033	961	1,936	1,205	556	1,214	1,229	2,261
95%	1,970	1,882	2,929	1,867	1,004	881	1,459	1,074	496	767	967	1,496
90%	1,636	1,828	2,026	1,538	910	707	748	718	429	486	843	1,211
75%	1,033	1,524	1,571	1,174	611	489	364	336	256	188	392	758
50%	713	949	1,118	718	338	231	173	139	89	99	235	475
25%	467	601	818	493	142	88	96	50	51	51	115	255
10%	293	421	688	280	92	26	42	23	28	25	69	162
5%	239	309	603	227	75	19	26	20	19	20	43	134
2%	198	274	462	212	32	14	17	16	16	11	34	126
0%	148	246	328	165	31	11	7.4	15	9.9	11	30	115

Monthly Flows (in CFS) for

02364500 - Pea River near Samson, Ala.

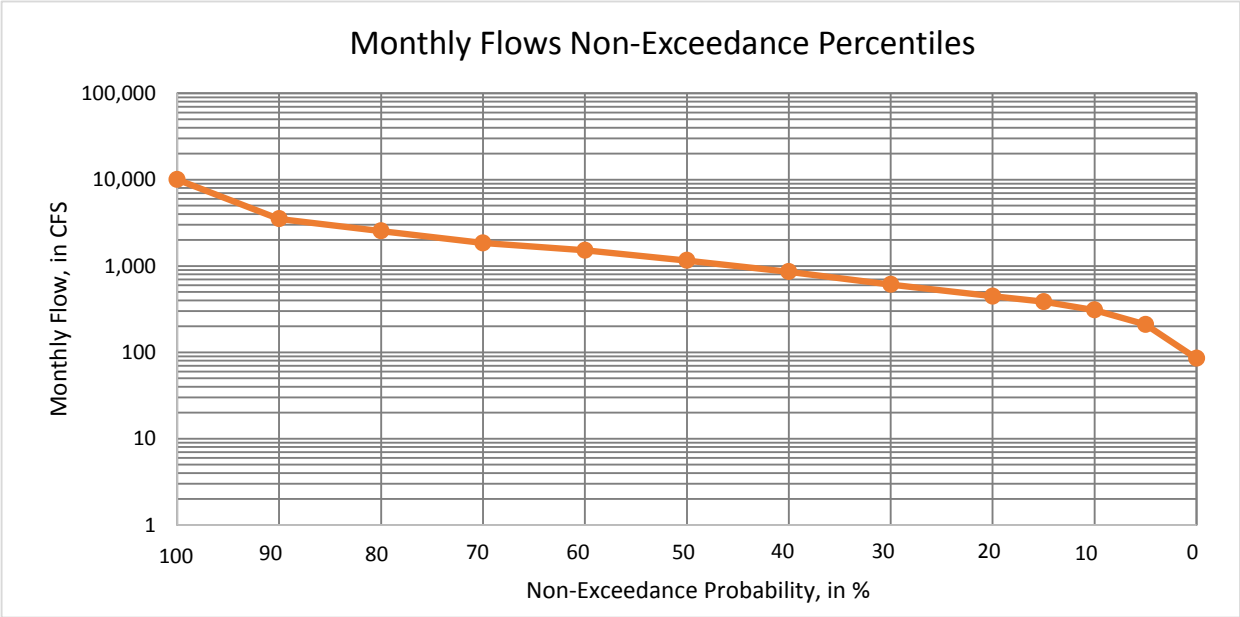
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,833	3,163	3,511	6,115	1,779	2,387	1,568	4,224	2,085	4,427	2,418	2,297	2,979
1976	2,725	2,686	2,350	2,541	3,280	2,273	1,046	774	789	1,494	1,482	3,877	2,109
1977	3,308	1,770	3,838	2,134	610	455	401	1,231	1,299	662	1,987	1,697	1,616
1978	4,620	3,919	4,468	2,985	4,199	2,583	1,030	1,428	469	359	408	939	2,278
1979	2,360	4,424	4,422	3,363	2,060	919	1,408	768	1,038	1,025	1,032	1,449	2,007
1980	1,795	1,582	4,971	4,584	2,304	1,155	644	432	344	468	679	603	1,630
1981	553	3,327	1,734	1,261	540	416	276	366	333	213	291	676	814
1982	2,668	4,651	2,533	1,727	999	453	902	1,175	521	353	533	1,998	1,525
1983	2,559	3,502	3,751	4,454	1,902	1,438	1,503	692	919	435	811	2,342	2,015
1984	2,568	2,092	4,090	2,247	1,483	554	666	1,212	330	236	380	669	1,377
1985	647	2,966	1,839	809	777	366	469	510	417	520	1,083	2,414	1,057
1986	2,305	2,717	2,806	881	415	307	244	260	351	260	448	1,154	1,004
1987	2,032	2,207	2,599	1,709	1,084	1,381	742	551	363	121	322	552	1,132
1988	1,910	1,666	2,838	1,543	446	184	561	171	332	442	522	489	922
1989	752	1,017	2,526	2,814	1,645	2,306	1,964	575	442	1,026	2,471	2,634	1,683
1990	5,118	3,645	9,724	2,036	1,731	1,159	486	230	165	182	261	528	2,106
1991	1,643	2,301	3,523	1,693	2,581	1,911	1,412	1,038	573	361	1,046	1,391	1,621
1992	4,017	3,639	2,549	1,275	444	765	451	622	433	389	3,068	3,168	1,723
1993	2,687	2,649	3,676	2,610	832	353	456	256	434	361	1,192	1,467	1,407
1994	1,589	2,888	2,333	1,807	889	1,401	8,211	1,509	931	1,359	986	1,765	2,142
1995	2,507	4,372	3,865	1,756	761	631	489	436	192	3,304	1,878	2,654	1,892
1996	3,362	4,008	3,806	3,484	1,247	852	643	764	1,862	808	1,046	1,543	1,937
1997	2,315	4,342	2,032	1,831	1,524	1,309	1,002	523	216	594	2,225	4,457	1,849
1998	3,641	5,070	6,827	3,227	1,012	415	625	361	842	1,936	717	1,048	2,129
1999	1,797	1,643	2,943	1,051	1,174	1,507	1,525	858	306	542	448	758	1,213
2000	1,133	839	1,792	787	223	146	103	172	252	173	549	1,233	617
2001	1,271	930	6,768	2,864	521	1,549	654	772	490	318	880	866	1,495
2002	1,154	1,538	2,186	1,780	566	548	338	290	265	702	1,086	1,522	994
2003	1,442	1,881	3,701	3,618	1,625	2,762	3,449	3,256	1,392	707	921	1,364	2,179
2004	1,806	3,694	1,505	791	1,065	1,261	800	545	2,398	919	1,392	1,847	1,484
2005	1,591	1,788	2,872	5,758	1,373	1,233	1,731	2,205	825	505	609	1,392	1,821
2006	1,545	1,722	1,836	731	981	163	130	183	237	298	1,038	607	784
2007	1,403	1,187	1,704	2,459	324	127	494	138	166	233	386	952	795
2008	2,090	3,098	2,022	1,760	363	210	328	1,602	584	423	426	3,294	1,342
2009	1,763	949	3,673	4,634	3,096	1,258	1,303	1,501	1,455	1,257	2,537	10,010	2,805
2010	5,232	4,881	2,928	1,092	1,659	744	430	340	206	193	392	594	1,541
2011	861	1,501	1,569	710	138	125	279	109	169	85	156	541	515
2012	727	1,123	741	712	308	391	226	642	1,242	415	235	875	632
2013	882	4,458	2,699	1,651	626	545	3,732	2,875	894	491	515	1,840	1,755
2014	2,119	3,041	2,260	6,900	2,914	1,130	694	388	396	342	496	1,071	1,798

Non-Exceedance Percentiles

02364500 - Pea River near Samson, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	553	839	741	710	138	125	103	109	165	85	156	489	515
5th %	723	948	1,566	730	304	145	221	170	169	171	259	540	631
10th %	850	1,112	1,731	790	359	182	273	181	204	191	319	590	794
15th %	1,096	1,454	1,829	870	440	292	321	252	234	230	385	606	906
20th %	1,248	1,573	1,985	1,084	506	363	388	284	262	255	405	674	1,002
30th %	1,576	1,756	2,311	1,619	621	442	465	381	333	349	482	920	1,304
40th %	1,782	2,161	2,543	1,744	866	552	534	518	383	378	543	1,121	1,491
Median	1,872	2,702	2,822	1,819	1,038	808	649	598	438	438	764	1,392	1,619
60th %	2,193	3,064	3,170	2,332	1,298	1,156	765	766	542	511	1,004	1,530	1,736
70th %	2,522	3,543	3,683	2,829	1,631	1,275	1,035	912	830	674	1,057	1,842	1,862
80th %	2,694	3,936	3,843	3,387	1,803	1,452	1,430	1,271	953	940	1,410	2,356	2,033
90th %	3,678	4,428	4,518	4,589	2,614	2,276	1,754	1,662	1,398	1,372	2,245	3,181	2,146
Maximum	5,232	5,070	9,724	6,900	4,199	2,762	8,211	4,224	2,398	4,427	3,068	10,010	2,979
Average	2,158	2,722	3,195	2,405	1,288	992	1,085	900	674	723	984	1,764	1,568

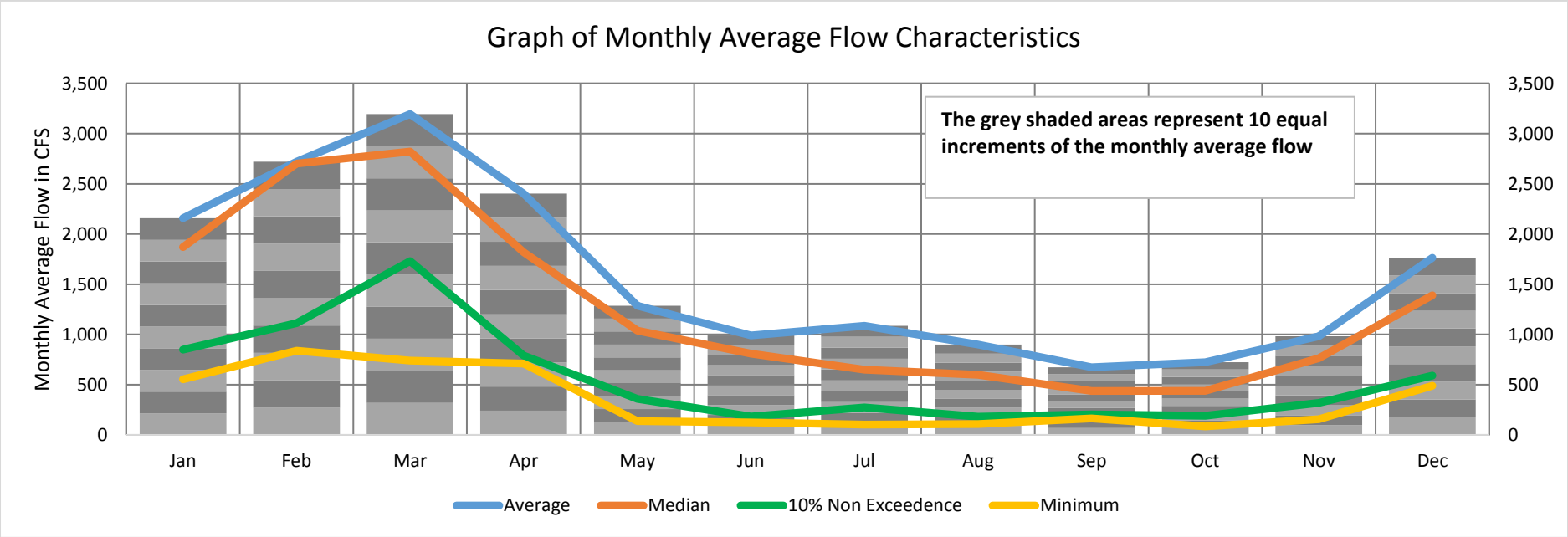
	Flows in CFS
Minimum	84.9
5th %	210
10th %	308
15th %	385
20th %	445
30th %	610
40th %	856
Median	1,154
60th %	1,514
70th %	1,842
80th %	2,538
90th %	3,503
Maximum	10,010
Average	1,574



Q10/Q50	0.27
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.07
Q5/DA	0.18
Q10/DA	0.26
Q15/DA	0.33
Q20/DA	0.38
Q30/DA	0.52
Q40/DA	0.72
Q50/DA	0.98
Q60/DA	1.28
Q70/DA	1.56
Q80/DA	2.15
Q90/DA	2.96
Qmax/DA	8.47

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

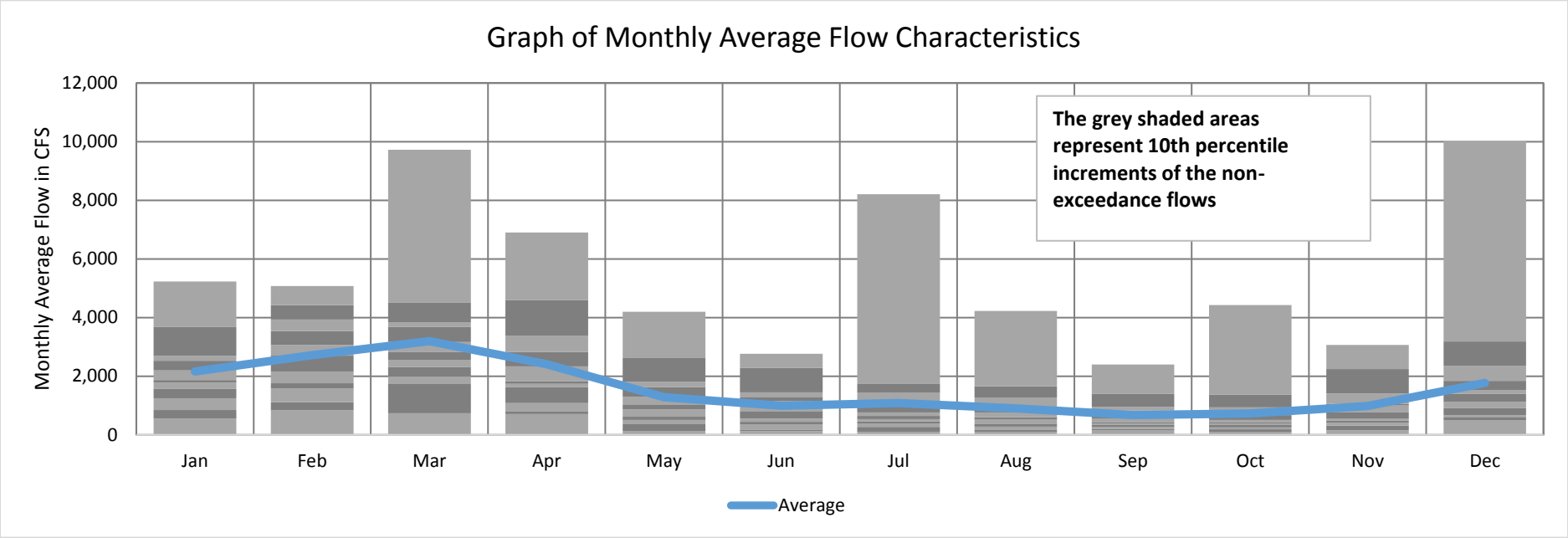
Site #: 02364500 Name: Pea River near Samson, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,158	2,722	3,195	2,405	1,288	992	1,085	900	674	723	984	1,764
100%	5,232	5,070	9,724	6,900	4,199	2,762	8,211	4,224	2,398	4,427	3,068	10,010
98%	5,143	4,923	7,465	6,288	3,482	2,623	4,717	3,469	2,154	3,551	2,654	5,679
95%	4,645	4,663	6,771	5,776	3,105	2,397	3,463	2,894	1,873	2,004	2,475	3,906
90%	3,678	4,428	4,518	4,589	2,614	2,276	1,754	1,662	1,398	1,372	2,245	3,181
75%	2,593	3,657	3,765	3,045	1,677	1,386	1,329	1,184	900	733	1,113	2,072
50%	1,872	2,702	2,822	1,819	1,038	808	649	598	438	438	764	1,392
25%	1,432	1,660	2,148	1,271	560	409	446	356	324	313	442	839
10%	850	1,112	1,731	790	359	182	273	181	204	191	319	590
5%	723	948	1,566	730	304	145	221	170	169	171	259	540
2%	627	910	1,337	711	204	127	124	131	166	113	217	519
0%	553	839	741	710	138	125	103	109	165	85	156	489

Site #: 02364500 Name: Pea River near Samson, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,182 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,158	2,722	3,195	2,405	1,288	992	1,085	900	674	723	984	1,764
100%	5,232	5,070	9,724	6,900	4,199	2,762	8,211	4,224	2,398	4,427	3,068	10,010
98%	5,143	4,923	7,465	6,288	3,482	2,623	4,717	3,469	2,154	3,551	2,654	5,679
95%	4,645	4,663	6,771	5,776	3,105	2,397	3,463	2,894	1,873	2,004	2,475	3,906
90%	3,678	4,428	4,518	4,589	2,614	2,276	1,754	1,662	1,398	1,372	2,245	3,181
75%	2,593	3,657	3,765	3,045	1,677	1,386	1,329	1,184	900	733	1,113	2,072
50%	1,872	2,702	2,822	1,819	1,038	808	649	598	438	438	764	1,392
25%	1,432	1,660	2,148	1,271	560	409	446	356	324	313	442	839
10%	850	1,112	1,731	790	359	182	273	181	204	191	319	590
5%	723	948	1,566	730	304	145	221	170	169	171	259	540
2%	627	910	1,337	711	204	127	124	131	166	113	217	519
0%	553	839	741	710	138	125	103	109	165	85	156	489

Monthly Flows (in CFS) for

02365000 - Pea River near Geneva, Ala. (represents streamflow for 03140202)

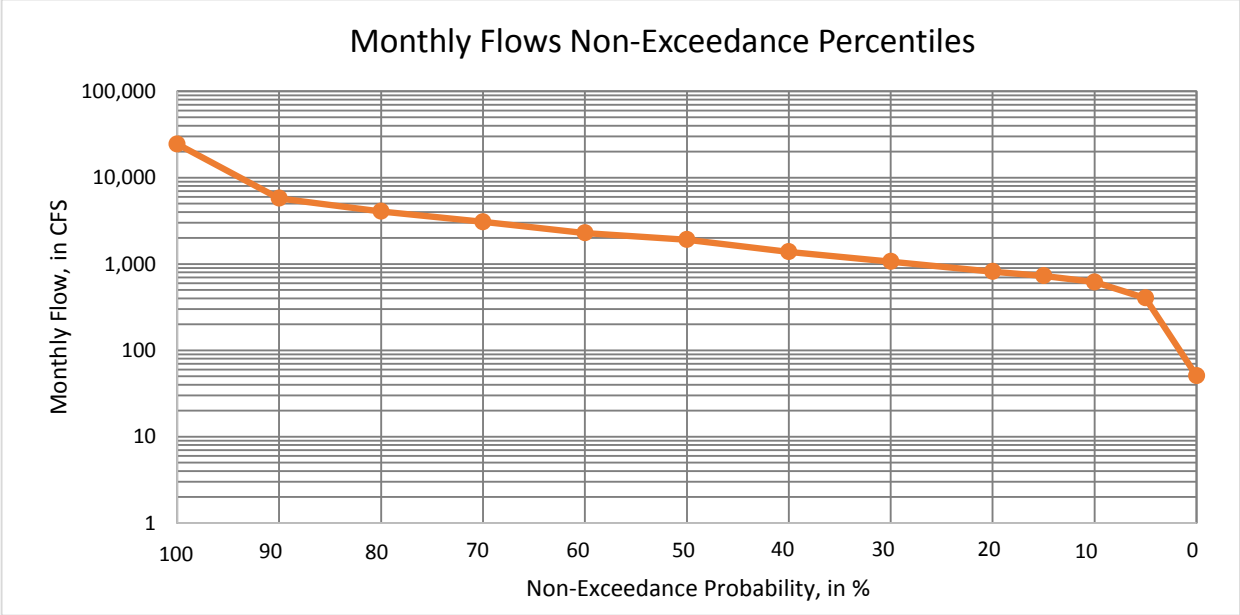
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,968	4,146	5,249	12,318	2,855	3,685	1,536	8,554	4,121	9,488	4,620	3,934	5,204
1976	3,962	4,891	3,648	4,172	6,150	4,454	1,822	1,474	1,192	1,805	840	5,964	3,359
1977	4,072	2,600	5,245	3,404	1,005	919	726	2,272	1,958	1,145	2,815	2,282	2,370
1978	7,833	7,064	7,215	4,451	8,479	3,984	1,797	2,126	811	627	801	1,638	3,891
1979	3,775	6,954	8,047	5,362	3,136	1,437	2,031	1,314	1,864	1,894	1,903	2,324	3,315
1980	2,729	2,473	11,945	10,743	4,791	2,083	1,210	919	868	745	1,406	1,179	3,428
1981	1,024	5,768	2,543	1,787	1,275	911	742	740	653	407	567	665	1,393
1982	4,126	8,406	3,871	2,100	2,013	822	1,175	1,869	940	698	747	2,933	2,441
1983	4,099	6,059	5,573	8,658	2,889	2,057	2,819	1,294	1,521	869	1,154	3,665	3,367
1984	3,937	3,062	7,569	3,077	1,285	849	846	1,933	774	538	684	1,120	2,141
1985	944	3,665	3,015	1,243	1,238	736	673	933	1,002	926	1,976	4,049	1,689
1986	4,051	5,049	4,972	1,438	885	762	637	611	685	629	769	2,033	1,861
1987	3,191	3,393	3,791	2,851	1,716	2,011	1,511	1,377	847	545	752	739	1,884
1988	2,092	3,452	4,476	2,191	850	607	1,152	1,013	3,927	2,217	1,790	1,417	2,087
1989	1,941	2,394	3,859	3,988	2,096	8,439	5,468	1,752	1,081	2,604	6,749	4,427	3,730
1990	10,631	6,842	13,088	3,958	3,867	2,003	1,273	905	564	682	757	784	3,776
1991	2,260	7,484	8,279	2,100	5,634	2,862	3,082	2,002	1,161	745	1,069	1,233	3,139
1992	4,603	8,739	5,594	2,694	1,097	3,518	1,907	1,918	1,420	1,014	4,262	6,595	3,578
1993	5,727	4,047	5,739	5,058	1,415	850	1,125	771	1,111	368	1,492	1,381	2,413
1994	1,970	4,155	4,225	4,461	1,224	4,004	24,497	4,411	2,000	3,174	1,067	2,697	4,851
1995	2,920	5,385	5,266	4,131	3,933	1,157	877	2,964	859	3,814	3,226	2,225	3,052
1996	2,204	6,023	4,267	6,565	2,295	1,536	998	648	1,091	2,202	653	1,230	2,447
1997	2,537	4,192	4,343	1,811	3,139	1,670	2,343	1,993	705	168	2,118	3,948	2,408
1998	7,004	6,720	9,964	2,962	1,725	789	596	1,328	901	6,001	1,377	802	3,340
1999	1,312	1,244	2,078	846	1,175	1,608	3,838	951	515	395	445	850	1,276
2000	1,143	1,046	1,433	816	251	193	106	115	51	177	588	776	556
2001	1,599	1,292	8,675	3,047	790	2,241	681	1,789	922	517	578	709	1,911
2002	878	1,316	2,190	2,437	228	209	307	356	403	896	2,255	2,482	1,160
2003	2,205	2,400	7,036	4,411	2,376	4,072	4,987	4,890	2,067	1,069	1,263	1,923	3,235
2004	1,897	5,481	2,332	818	2,176	3,294	2,393	917	4,019	1,841	2,838	3,513	2,602
2005	2,582	2,327	1,946	11,642	3,044	2,104	3,109	4,449	1,618	877	853	2,225	3,060
2006	3,045	2,429	2,414	1,033	1,521	439	402	606	657	610	1,649	929	1,306
2007	2,338	1,886	2,068	2,914	538	308	954	351	403	639	1,065	2,041	1,289
2008	4,018	5,400	3,300	2,794	835	665	670	1,328	1,102	714	369	3,334	2,025
2009	2,223	1,648	5,853	10,005	5,156	2,828	2,541	3,201	2,403	2,866	3,854	12,456	4,608
2010	7,941	9,926	4,889	1,879	2,394	1,185	848	730	342	364	590	752	2,612
2011	971	1,572	1,835	988	380	212	614	403	439	161	226	804	713
2012	1,440	2,193	1,733	1,357	702	1,063	550	2,510	3,333	1,077	526	1,395	1,483
2013	1,341	10,416	5,772	2,676	1,139	1,073	8,268	5,875	3,099	1,428	1,220	3,129	3,751
2014	3,977	4,365	4,070	10,783	6,869	2,124	1,494	893	703	806	616	2,096	3,220

Non-Exceedance Percentiles

02365000 - Pea River near Geneva, Ala. (represents streamflow for 03140202)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	878	1,046	1,433	816	228	193	106	115	51	161	226	665	556
5th %	970	1,290	1,830	844	374	212	398	356	400	177	441	737	1,138
10th %	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774	1,287
15th %	1,337	1,850	2,173	1,339	828	657	634	642	557	405	587	799	1,380
20th %	1,567	2,300	2,398	1,717	878	757	673	738	656	534	611	841	1,648
30th %	1,969	2,460	3,543	2,100	1,164	850	814	914	753	628	751	1,214	1,991
40th %	2,216	3,428	3,990	2,687	1,281	1,069	980	988	864	708	824	1,408	2,393
Median	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037	2,524
60th %	3,104	4,954	5,247	3,625	2,224	2,006	1,521	1,767	1,105	961	1,308	2,248	3,091
70th %	3,966	5,567	5,637	4,244	2,866	2,110	1,944	1,951	1,450	1,230	1,691	2,768	3,322
80th %	4,078	6,744	7,072	5,119	3,285	2,948	2,597	2,320	1,967	1,955	2,145	3,543	3,458
90th %	5,855	7,577	8,318	10,079	5,204	3,986	3,953	4,415	3,123	2,897	3,289	4,087	3,787
Maximum	10,631	10,416	13,088	12,318	8,479	8,439	24,497	8,554	4,121	9,488	6,749	12,456	5,204
Average	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467	2,649

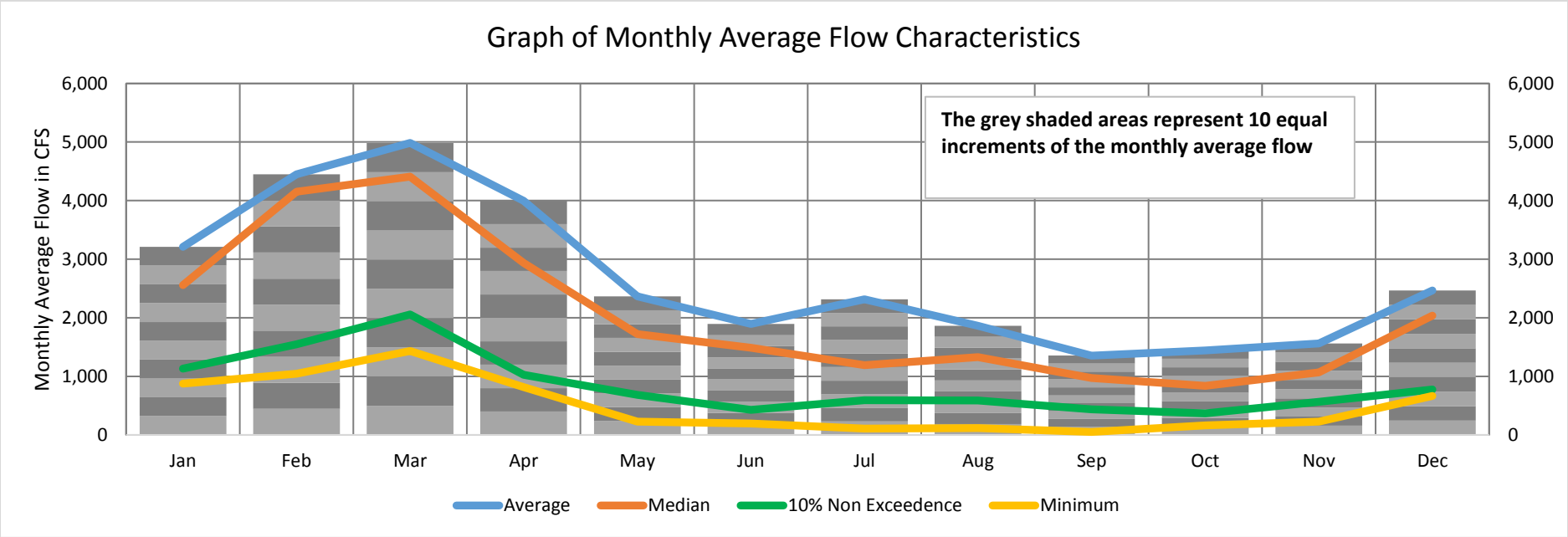
	Flows in CFS
Minimum	50.6
5th %	403
10th %	616
15th %	729
20th %	815
30th %	1,064
40th %	1,379
Median	1,913
60th %	2,287
70th %	3,066
80th %	4,055
90th %	5,742
Maximum	24,497
Average	2,659



Q10/Q50	0.32
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.03
Q5/DA	0.26
Q10/DA	0.40
Q15/DA	0.47
Q20/DA	0.53
Q30/DA	0.69
Q40/DA	0.89
Q50/DA	1.23
Q60/DA	1.47
Q70/DA	1.98
Q80/DA	2.61
Q90/DA	3.70
Qmax/DA	15.78

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

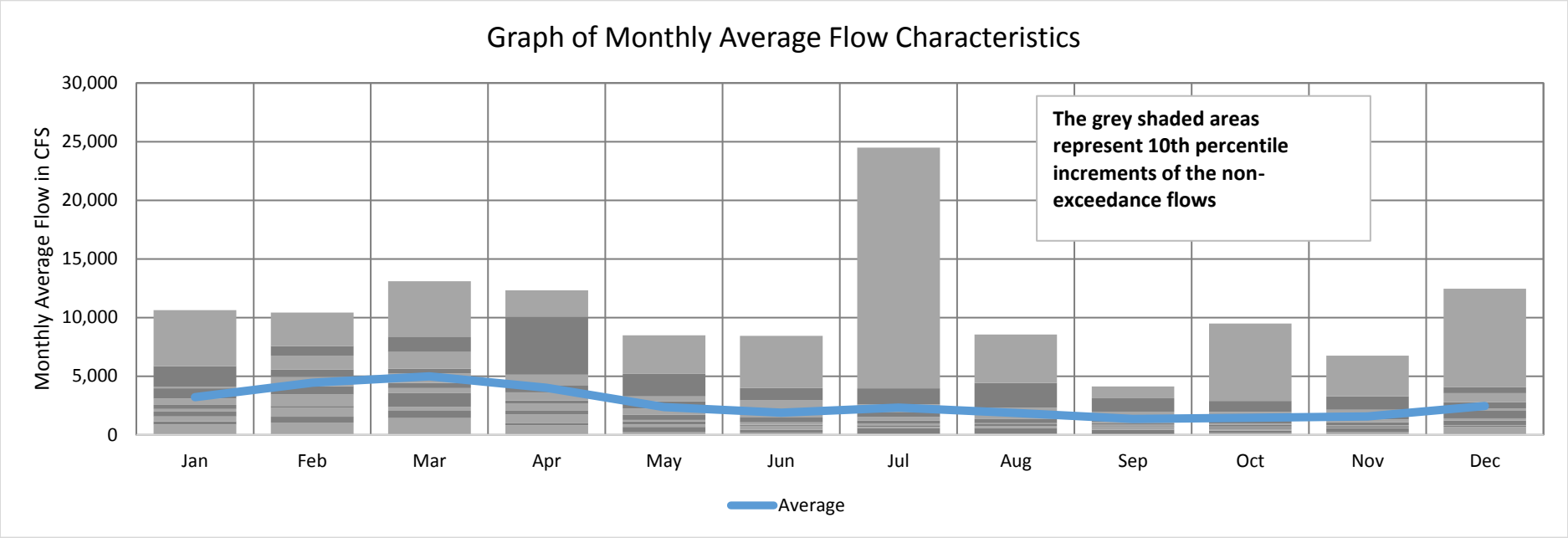
Site #: 02365000 Name: Pea River near Geneva, Ala. (represents streamflow for 03140202)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467
100%	10,631	10,416	13,088	12,318	8,479	8,439	24,497	8,554	4,121	9,488	6,749	12,456
98%	8,533	10,034	12,196	11,790	7,223	5,330	11,838	6,465	4,042	6,768	5,088	7,885
95%	7,838	8,798	10,063	10,826	6,186	4,091	5,608	4,939	3,932	3,923	4,280	5,995
90%	5,855	7,577	8,318	10,079	5,204	3,986	3,953	4,415	3,123	2,897	3,289	4,087
75%	4,026	6,032	5,792	4,453	3,067	2,388	2,355	2,033	1,679	1,814	1,921	3,180
50%	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037
25%	1,930	2,399	2,897	1,862	1,074	813	715	863	698	594	676	1,072
10%	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774
5%	970	1,290	1,830	844	374	212	398	356	400	177	441	737
2%	929	1,200	1,667	817	246	205	263	299	278	166	338	699
0%	878	1,046	1,433	816	228	193	106	115	51	161	226	665

Site #: 02365000 Name: Pea River near Geneva, Ala. (represents streamflow for 03140202)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,552 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,213	4,448	4,985	3,999	2,364	1,894	2,315	1,862	1,353	1,444	1,563	2,467
100%	10,631	10,416	13,088	12,318	8,479	8,439	24,497	8,554	4,121	9,488	6,749	12,456
98%	8,533	10,034	12,196	11,790	7,223	5,330	11,838	6,465	4,042	6,768	5,088	7,885
95%	7,838	8,798	10,063	10,826	6,186	4,091	5,608	4,939	3,932	3,923	4,280	5,995
90%	5,855	7,577	8,318	10,079	5,204	3,986	3,953	4,415	3,123	2,897	3,289	4,087
75%	4,026	6,032	5,792	4,453	3,067	2,388	2,355	2,033	1,679	1,814	1,921	3,180
50%	2,559	4,150	4,409	2,938	1,721	1,486	1,192	1,328	971	838	1,068	2,037
25%	1,930	2,399	2,897	1,862	1,074	813	715	863	698	594	676	1,072
10%	1,131	1,547	2,056	1,029	685	426	591	586	435	368	563	774
5%	970	1,290	1,830	844	374	212	398	356	400	177	441	737
2%	929	1,200	1,667	817	246	205	263	299	278	166	338	699
0%	878	1,046	1,433	816	228	193	106	115	51	161	226	665

Monthly Flows (in CFS) for

02365200 - Choctawhatchee River near Pittman, Fla.

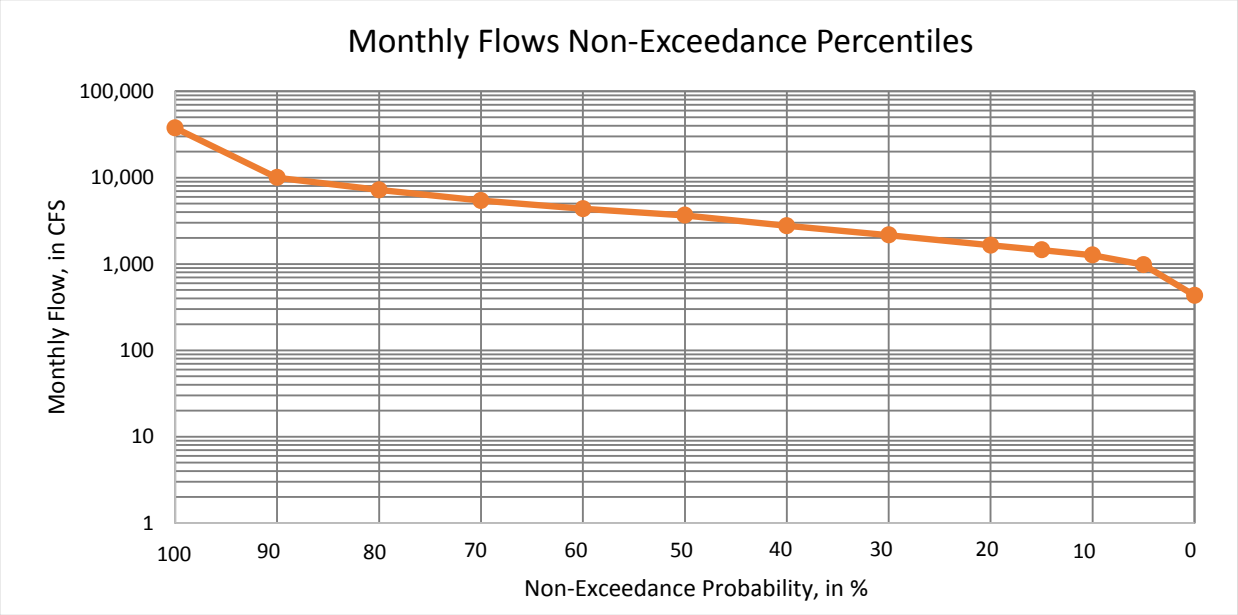
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	5,342	9,235	10,346	20,220	5,194	6,903	4,623	12,762	6,043	13,484	6,994	6,643	8,969
1976	7,897	7,781	6,797	7,353	9,605	6,574	3,197	2,682	2,772	4,503	4,871	10,700	6,224
1977	9,202	5,338	11,430	5,794	2,002	1,712	1,615	3,919	3,777	2,201	5,727	4,895	4,803
1978	15,520	11,010	12,530	7,586	12,040	6,725	3,148	3,933	1,451	1,238	1,633	3,018	6,642
1979	6,827	12,730	12,270	9,748	5,133	2,766	4,063	2,306	3,316	3,081	3,493	4,204	5,782
1980	5,082	4,439	18,540	15,910	7,616	3,878	2,324	1,736	1,433	1,513	2,232	2,081	5,571
1981	1,971	9,752	5,268	3,854	2,074	1,611	1,232	1,490	1,320	982	1,214	2,268	2,704
1982	7,726	14,304	7,329	5,054	3,115	1,671	2,861	3,578	1,856	1,393	1,889	5,798	4,659
1983	7,403	10,319	11,139	13,581	5,533	4,276	4,448	2,310	2,905	1,621	2,623	6,773	6,045
1984	7,430	6,063	12,294	6,500	4,395	1,945	2,242	3,676	1,329	1,053	1,468	2,250	4,221
1985	2,193	8,627	5,358	2,619	2,535	1,430	1,714	1,825	1,572	1,852	3,336	6,981	3,305
1986	6,667	7,873	8,138	2,808	1,565	1,262	1,077	1,125	1,387	1,124	1,657	3,523	3,161
1987	5,894	6,387	7,522	5,004	3,340	4,123	2,443	1,936	1,421	895	1,475	1,648	3,489
1988	4,214	6,083	8,585	4,044	1,534	1,006	2,633	1,410	5,155	2,899	2,560	2,194	3,509
1989	2,918	3,719	5,781	6,254	3,621	11,007	8,463	2,712	1,746	4,525	10,425	8,232	5,783
1990	17,302	11,227	24,020	6,848	6,109	3,492	2,247	1,407	994	1,110	1,301	1,787	6,485
1991	5,248	11,439	13,229	4,433	8,575	4,811	4,977	3,442	1,942	1,367	2,211	2,483	5,318
1992	8,523	13,388	10,584	4,798	2,077	5,047	3,085	3,173	2,241	2,153	8,783	9,879	6,095
1993	8,918	7,159	10,540	8,559	2,987	1,643	2,009	1,341	1,910	1,087	3,279	3,339	4,381
1994	4,135	7,430	8,064	7,189	2,983	5,901	37,527	6,601	3,263	5,106	2,612	4,615	7,992
1995	4,871	10,481	8,795	6,459	5,255	2,129	1,769	3,961	1,320	5,719	5,623	5,133	5,096
1996	5,742	10,382	9,324	11,162	4,319	2,890	2,100	2,175	3,902	4,081	2,155	4,337	5,174
1997	7,472	9,382	7,087	3,829	5,002	3,440	4,319	2,974	1,239	1,370	4,509	8,341	4,895
1998	11,911	12,474	18,853	7,312	3,224	1,557	1,892	2,218	3,101	9,492	2,767	2,425	6,416
1999	3,850	3,124	4,369	1,881	3,364	3,577	5,871	1,806	1,043	1,388	1,342	2,008	2,808
2000	2,763	2,625	3,024	1,727	622	534	432	569	747	547	1,435	2,677	1,470
2001	3,796	2,748	15,820	6,563	1,568	4,105	1,854	2,675	1,659	1,063	1,290	1,685	3,747
2002	1,976	2,761	4,016	4,222	936	834	996	848	940	1,519	3,410	4,476	2,239
2003	3,714	4,340	10,550	8,774	4,093	7,012	9,329	8,390	4,076	2,238	2,742	3,701	5,759
2004	3,895	9,176	4,144	2,155	3,849	4,900	3,503	1,631	5,555	2,917	4,493	5,548	4,274
2005	4,792	4,773	6,979	17,620	5,047	4,405	6,054	7,193	2,873	1,689	2,157	4,303	5,652
2006	5,761	5,188	5,023	2,232	2,781	864	777	1,104	1,174	1,260	2,758	2,133	2,576
2007	4,121	3,810	3,994	6,434	1,121	663	1,541	715	799	1,089	1,765	3,676	2,467
2008	6,854	9,959	5,627	5,200	1,469	1,125	1,288	3,392	1,809	1,510	1,575	8,284	3,976
2009	4,634	3,125	10,290	15,700	8,344	4,210	4,150	4,666	3,992	4,543	6,235	22,470	7,736
2010	14,120	15,790	8,279	3,634	4,427	2,373	1,692	1,430	860	869	1,348	1,821	4,659
2011	2,454	3,702	3,726	2,010	780	536	1,430	765	782	496	641	1,610	1,567
2012	2,387	3,503	2,727	2,119	1,285	1,688	991	4,010	4,308	1,676	1,009	2,466	2,339
2013	2,404	15,710	8,442	4,688	2,371	2,036	15,280	9,619	4,940	2,505	2,333	6,121	6,325
2014	6,903	8,448	7,143	18,790	11,040	3,773	2,452	1,588	1,453	2,080	1,685	4,247	5,772

Non-Exceedance Percentiles

02365200 - Choctawhatchee River near Pittman, Fla.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,971	2,625	2,727	1,727	622	534	432	569	747	496	641	1,610	1,470
5th %	2,182	2,760	3,691	2,004	928	657	980	762	798	853	1,204	1,683	2,205
10th %	2,402	3,125	4,014	2,151	1,269	861	1,069	1,078	932	973	1,300	1,818	2,454
15th %	2,717	3,672	4,335	2,561	1,524	1,107	1,280	1,308	1,036	1,062	1,347	2,070	2,685
20th %	3,555	3,792	5,219	3,469	1,567	1,396	1,519	1,410	1,226	1,089	1,462	2,182	3,090
30th %	4,053	5,064	6,492	4,169	2,283	1,663	1,753	1,618	1,370	1,253	1,650	2,454	3,676
40th %	4,729	6,265	7,254	4,922	2,986	2,000	2,063	1,891	1,452	1,391	2,049	3,211	4,338
Median	5,295	7,827	8,209	6,024	3,352	2,828	2,383	2,308	1,778	1,570	2,283	3,953	4,849
60th %	6,203	9,200	9,006	6,525	4,183	3,655	2,951	2,817	2,061	1,943	2,671	4,392	5,419
70th %	7,053	10,067	10,543	7,324	5,015	4,149	3,671	3,483	2,964	2,318	3,296	5,258	5,775
80th %	7,760	11,053	11,598	8,969	5,310	4,829	4,483	3,939	3,802	3,281	4,496	6,669	6,121
90th %	9,473	12,796	13,488	15,721	8,367	6,589	6,295	6,661	4,371	4,599	5,778	8,290	6,500
Maximum	17,302	15,790	24,020	20,220	12,040	11,007	37,527	12,762	6,043	13,484	10,425	22,470	8,969
Average	6,121	7,895	8,949	7,017	4,073	3,261	4,091	3,127	2,360	2,531	3,026	4,769	4,752

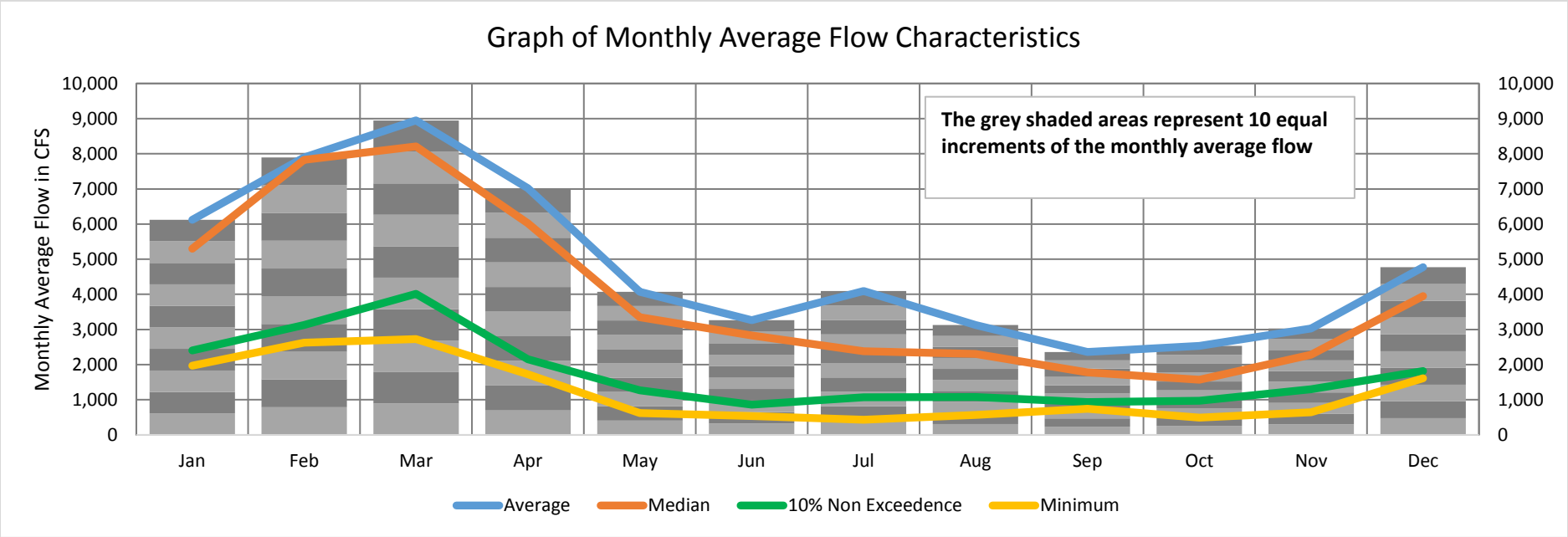
	Flows in CFS
Minimum	432.2
5th %	980
10th %	1,262
15th %	1,449
20th %	1,647
30th %	2,154
40th %	2,762
Median	3,655
60th %	4,352
70th %	5,411
80th %	7,189
90th %	9,992
Maximum	37,527
Average	4,768



Q10/Q50	0.35
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.13
Q5/DA	0.31
Q10/DA	0.39
Q15/DA	0.45
Q20/DA	0.51
Q30/DA	0.67
Q40/DA	0.86
Q50/DA	1.14
Q60/DA	1.36
Q70/DA	1.69
Q80/DA	2.24
Q90/DA	3.11
Qmax/DA	11.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

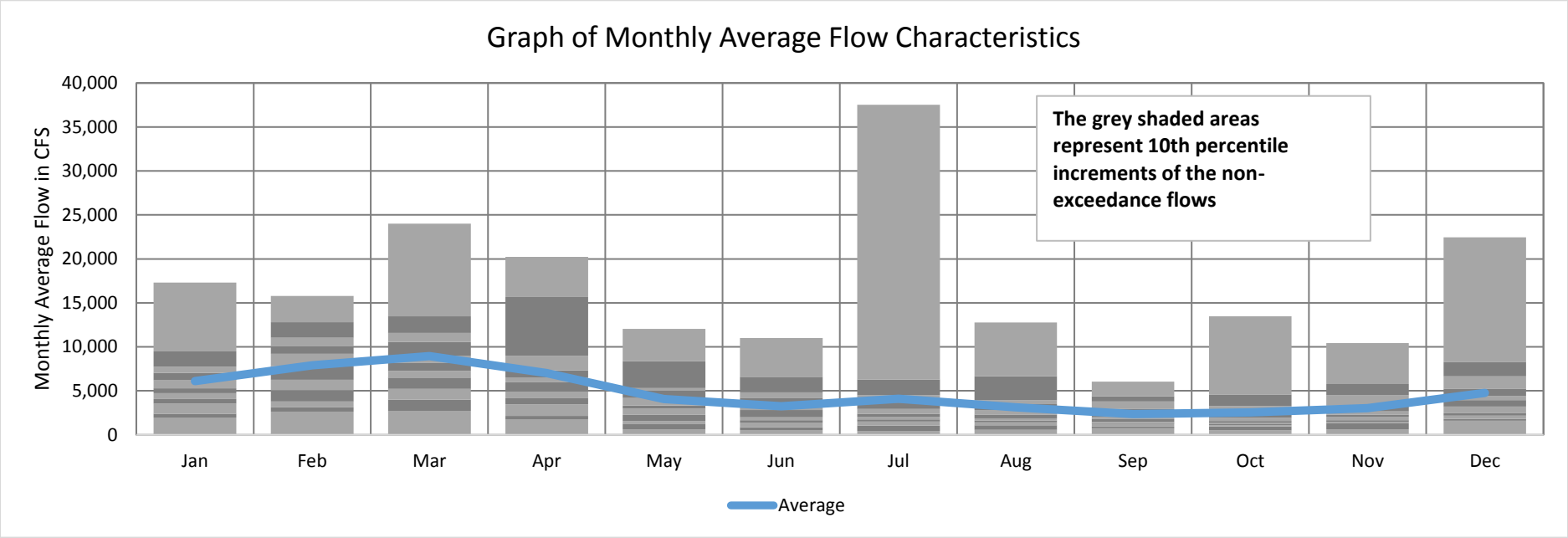
Site #: 02365200 Name: Choctawhatchee River near Pittman, Fla.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,121	7,895	8,949	7,017	4,073	3,261	4,091	3,127	2,360	2,531	3,026	4,769
100%	17,302	15,790	24,020	20,220	12,040	11,007	37,527	12,762	6,043	13,484	10,425	22,470
98%	15,912	15,728	19,990	19,105	11,260	7,891	20,174	10,310	5,662	10,370	9,145	13,289
95%	14,190	14,375	18,556	17,679	9,677	6,908	9,627	8,451	5,175	5,908	7,083	9,920
90%	9,473	12,796	13,488	15,721	8,367	6,589	6,295	6,661	4,371	4,599	5,778	8,290
75%	7,441	10,406	10,723	7,829	5,148	4,308	4,192	3,737	3,277	2,904	3,431	5,879
50%	5,295	7,827	8,209	6,024	3,352	2,828	2,383	2,308	1,778	1,570	2,283	3,953
25%	3,837	4,414	5,560	3,848	2,056	1,597	1,673	1,475	1,320	1,120	1,550	2,263
10%	2,402	3,125	4,014	2,151	1,269	861	1,069	1,078	932	973	1,300	1,818
5%	2,182	2,760	3,691	2,004	928	657	980	762	798	853	1,204	1,683
2%	1,975	2,721	2,959	1,847	746	536	701	682	774	536	928	1,640
0%	1,971	2,625	2,727	1,727	622	534	432	569	747	496	641	1,610

Site #: 02365200 Name: Choctawhatchee River near Pittman, Fla.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,209 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,121	7,895	8,949	7,017	4,073	3,261	4,091	3,127	2,360	2,531	3,026	4,769
100%	17,302	15,790	24,020	20,220	12,040	11,007	37,527	12,762	6,043	13,484	10,425	22,470
98%	15,912	15,728	19,990	19,105	11,260	7,891	20,174	10,310	5,662	10,370	9,145	13,289
95%	14,190	14,375	18,556	17,679	9,677	6,908	9,627	8,451	5,175	5,908	7,083	9,920
90%	9,473	12,796	13,488	15,721	8,367	6,589	6,295	6,661	4,371	4,599	5,778	8,290
75%	7,441	10,406	10,723	7,829	5,148	4,308	4,192	3,737	3,277	2,904	3,431	5,879
50%	5,295	7,827	8,209	6,024	3,352	2,828	2,383	2,308	1,778	1,570	2,283	3,953
25%	3,837	4,414	5,560	3,848	2,056	1,597	1,673	1,475	1,320	1,120	1,550	2,263
10%	2,402	3,125	4,014	2,151	1,269	861	1,069	1,078	932	973	1,300	1,818
5%	2,182	2,760	3,691	2,004	928	657	980	762	798	853	1,204	1,683
2%	1,975	2,721	2,959	1,847	746	536	701	682	774	536	928	1,640
0%	1,971	2,625	2,727	1,727	622	534	432	569	747	496	641	1,610

Monthly Flows (in CFS) for

02367800 - Yellow River near Wing, Ala. (represents streamflow for 03140103)

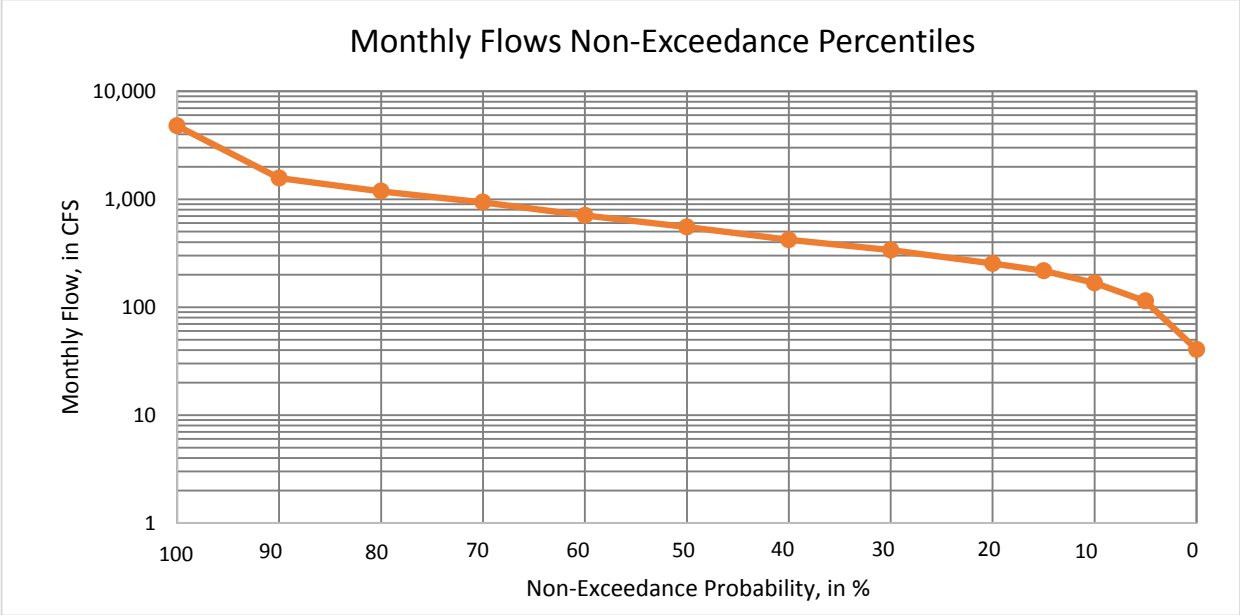
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	810	1,086	1,653	3,847	1,369	1,029	967	3,929	3,098	2,907	1,570	1,365	1,972
1976	1,377	1,303	1,092	1,138	1,568	1,238	512	408	420	480	617	1,290	952
1977	1,194	716	1,472	1,073	252	221	227	772	803	398	767	719	718
1978	2,409	1,335	1,784	973	3,001	1,496	615	707	338	257	261	486	1,141
1979	1,159	2,186	2,520	1,404	623	395	605	481	412	311	424	601	919
1980	858	688	2,815	2,595	1,313	666	303	174	145	218	362	317	872
1981	257	1,210	616	446	340	260	144	270	162	110	156	340	353
1982	1,093	1,999	1,079	728	399	209	359	422	212	147	241	673	622
1983	1,146	1,755	1,681	2,239	992	758	730	434	402	217	366	1,031	973
1984	1,204	875	1,804	889	440	266	461	875	237	209	446	638	697
1985	575	2,055	1,154	452	706	574	390	359	258	262	487	1,069	687
1986	1,358	1,132	1,618	450	314	233	163	154	228	187	538	976	611
1987	979	1,179	1,227	890	597	557	397	440	231	124	319	263	597
1988	747	1,086	1,189	471	261	85	399	264	1,464	661	495	368	620
1989	397	403	843	996	621	2,038	1,483	376	301	959	1,944	1,201	964
1990	2,414	1,773	3,955	1,188	1,043	446	309	193	114	147	168	255	1,000
1991	983	1,911	1,729	667	1,087	932	1,040	932	472	226	483	465	905
1992	1,513	1,913	1,405	789	296	787	647	607	314	320	1,489	1,434	953
1993	1,185	1,052	1,356	1,436	498	229	314	167	259	69	320	385	603
1994	420	783	574	398	144	270	2,367	508	165	250	226	391	542
1995	469	1,209	1,252	470	168	94	57	82	41	1,050	538	1,008	534
1996	1,060	1,548	1,127	1,271	388	258	103	119	393	263	221	518	599
1997	714	1,508	1,090	623	623	639	654	474	160	193	516	1,199	695
1998	1,726	1,748	4,626	1,268	417	189	249	394	2,786	4,778	798	654	1,639
1999	934	546	875	359	600	634	996	344	155	155	169	287	506
2000	369	359	359	325	96	93	56	90	109	40	218	408	209
2001	474	405	2,126	766	198	581	254	683	503	196	188	287	557
2002	336	447	618	441	91	81	150	154	312	517	791	806	395
2003	728	764	1,540	1,479	625	1,043	1,938	1,469	869	382	377	620	988
2004	602	1,407	630	324	625	952	708	463	1,656	991	1,502	1,248	920
2005	953	883	1,159	3,352	913	725	938	1,049	559	303	345	775	994
2006	989	832	742	310	379	108	105	229	211	208	417	244	396
2007	789	657	584	1,118	199	165	239	106	177	345	360	672	449
2008	1,307	1,754	916	888	326	193	272	365	199	223	164	1,280	651
2009	793	566	2,182	2,637	1,546	808	367	1,064	1,181	1,156	1,506	4,029	1,493
2010	2,368	2,615	1,331	659	603	369	252	283	182	114	237	283	764
2011	487	632	660	349	76	42	321	123	311	101	102	319	292
2012	413	674	453	311	202	514	150	454	842	313	166	422	407
2013	435	1,908	1,152	605	325	539	1,959	1,453	835	435	356	680	885
2014	892	1,048	1,135	2,839	1,740	857	500	243	216	269	213	443	863

Non-Exceedance Percentiles

02367800 - Yellow River near Wing, Ala. (represents streamflow for 03140103)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	257	359	359	310	76	42	56	82	41	40	102	244	209
5th %	367	405	568	323	96	85	100	105	114	99	164	262	350
10th %	412	536	613	346	165	94	140	123	154	113	167	286	396
15th %	433	622	628	392	199	156	150	154	162	143	185	312	443
20th %	473	670	726	445	242	192	214	173	175	154	217	336	528
30th %	681	777	1,030	470	322	232	253	258	211	204	240	403	598
40th %	791	982	1,132	664	384	269	312	353	235	221	335	477	621
Median	913	1,109	1,174	839	469	480	378	401	306	259	364	629	696
60th %	985	1,247	1,341	982	610	577	476	446	360	306	433	676	866
70th %	1,150	1,520	1,564	1,153	625	684	625	489	436	356	501	857	919
80th %	1,224	1,759	1,740	1,410	1,003	818	771	720	809	487	647	1,095	966
90th %	1,534	1,922	2,216	2,599	1,387	1,030	1,084	1,051	1,209	997	1,490	1,281	1,014
Maximum	2,414	2,615	4,626	3,847	3,001	2,038	2,367	3,929	3,098	4,778	1,944	4,029	1,972
Average	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761	773

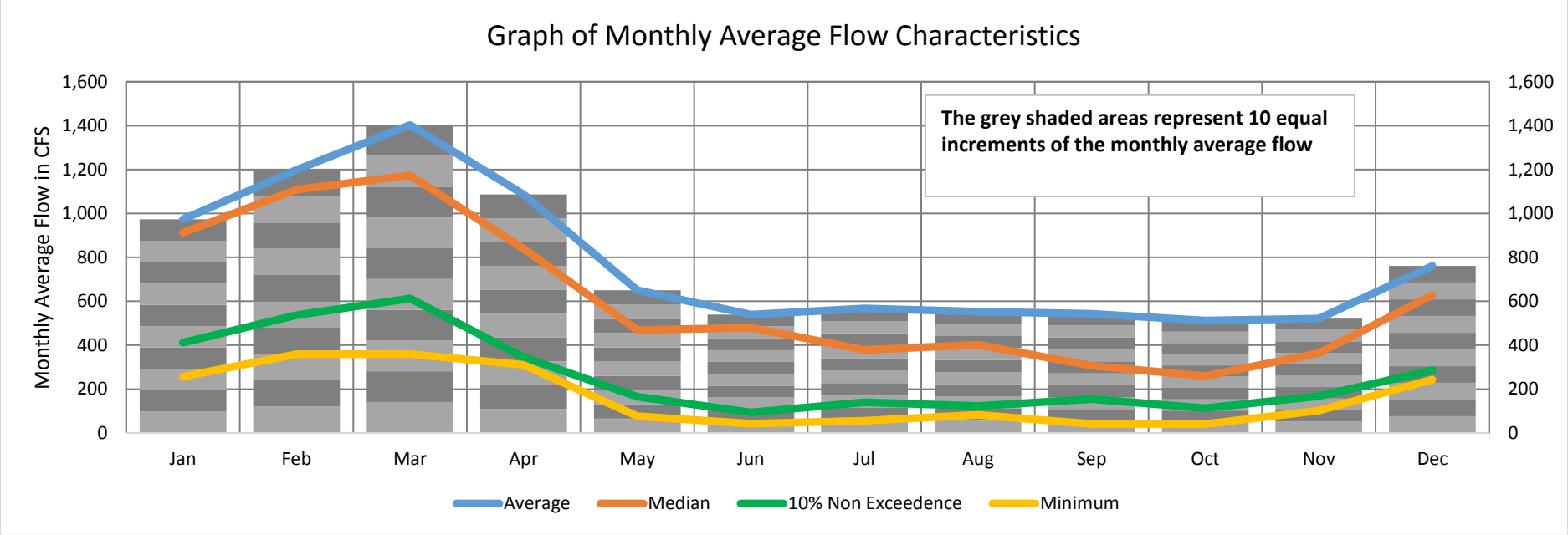
	Flows in CFS
Minimum	40.5
5th %	114
10th %	167
15th %	217
20th %	254
30th %	338
40th %	420
Median	552
60th %	706
70th %	935
80th %	1,182
90th %	1,568
Maximum	4,778
Average	776



Q10/Q50	0.30
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.09
Q5/DA	0.25
Q10/DA	0.36
Q15/DA	0.47
Q20/DA	0.55
Q30/DA	0.73
Q40/DA	0.91
Q50/DA	1.20
Q60/DA	1.53
Q70/DA	2.03
Q80/DA	2.56
Q90/DA	3.40
Qmax/DA	10.36

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

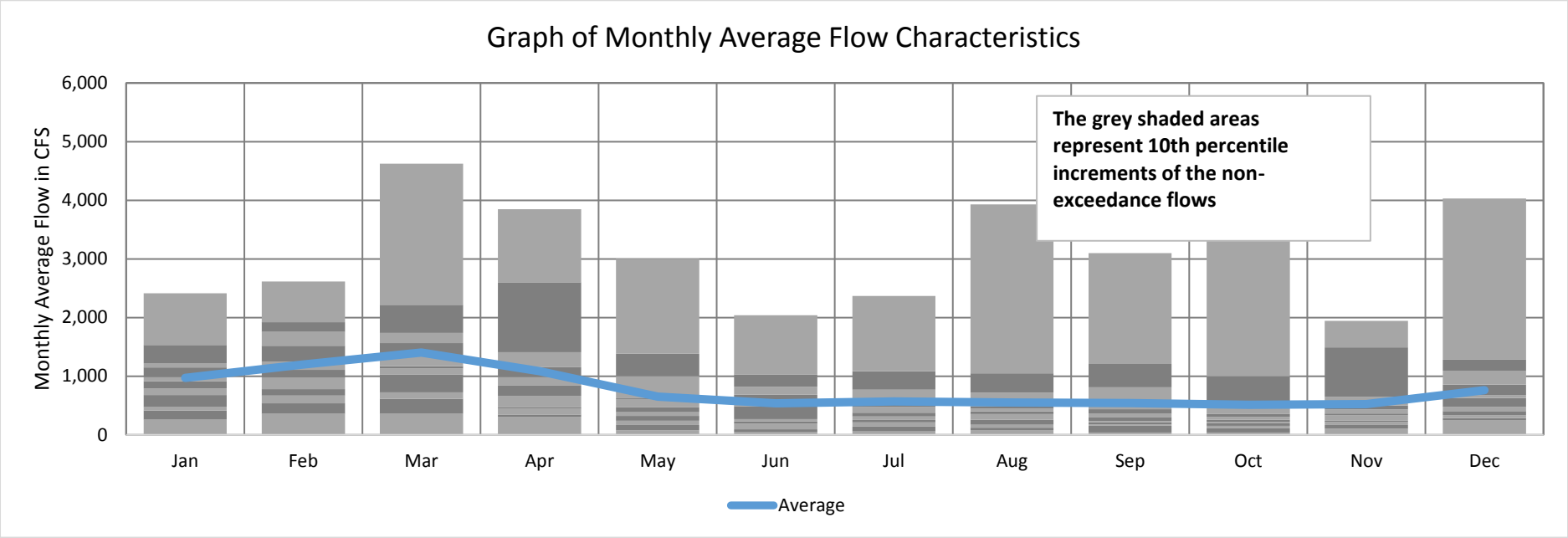
Site #: 02367800 Name: Yellow River near Wing, Ala. (represents streamflow for 03140103)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761
100%	2,414	2,615	4,626	3,847	3,001	2,038	2,367	3,929	3,098	4,778	1,944	4,029
98%	2,410	2,281	4,103	3,460	2,017	1,615	2,049	2,010	2,855	3,319	1,652	2,005
95%	2,370	2,062	2,872	2,865	1,577	1,251	1,939	1,454	1,712	1,243	1,509	1,368
90%	1,534	1,922	2,216	2,599	1,387	1,030	1,084	1,051	1,209	997	1,490	1,281
75%	1,187	1,749	1,660	1,269	758	765	668	626	517	407	538	1,014
50%	913	1,109	1,174	839	469	480	378	401	306	259	364	629
25%	553	709	867	452	287	218	246	220	195	192	225	381
10%	412	536	613	346	165	94	140	123	154	113	167	286
5%	367	405	568	323	96	85	100	105	114	99	164	262
2%	318	393	432	311	88	73	57	88	94	63	144	253
0%	257	359	359	310	76	42	56	82	41	40	102	244

Site #: 02367800 Name: Yellow River near Wing, Ala. (represents streamflow for 03140103)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 461 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	973	1,199	1,403	1,087	650	539	567	553	543	512	522	761
100%	2,414	2,615	4,626	3,847	3,001	2,038	2,367	3,929	3,098	4,778	1,944	4,029
98%	2,410	2,281	4,103	3,460	2,017	1,615	2,049	2,010	2,855	3,319	1,652	2,005
95%	2,370	2,062	2,872	2,865	1,577	1,251	1,939	1,454	1,712	1,243	1,509	1,368
90%	1,534	1,922	2,216	2,599	1,387	1,030	1,084	1,051	1,209	997	1,490	1,281
75%	1,187	1,749	1,660	1,269	758	765	668	626	517	407	538	1,014
50%	913	1,109	1,174	839	469	480	378	401	306	259	364	629
25%	553	709	867	452	287	218	246	220	195	192	225	381
10%	412	536	613	346	165	94	140	123	154	113	167	286
5%	367	405	568	323	96	85	100	105	114	99	164	262
2%	318	393	432	311	88	73	57	88	94	63	144	253
0%	257	359	359	310	76	42	56	82	41	40	102	244

Monthly Flows (in CFS) for

02369800 - Blackwater River near Bradley, Ala. (represents Streamflow for 03140104)

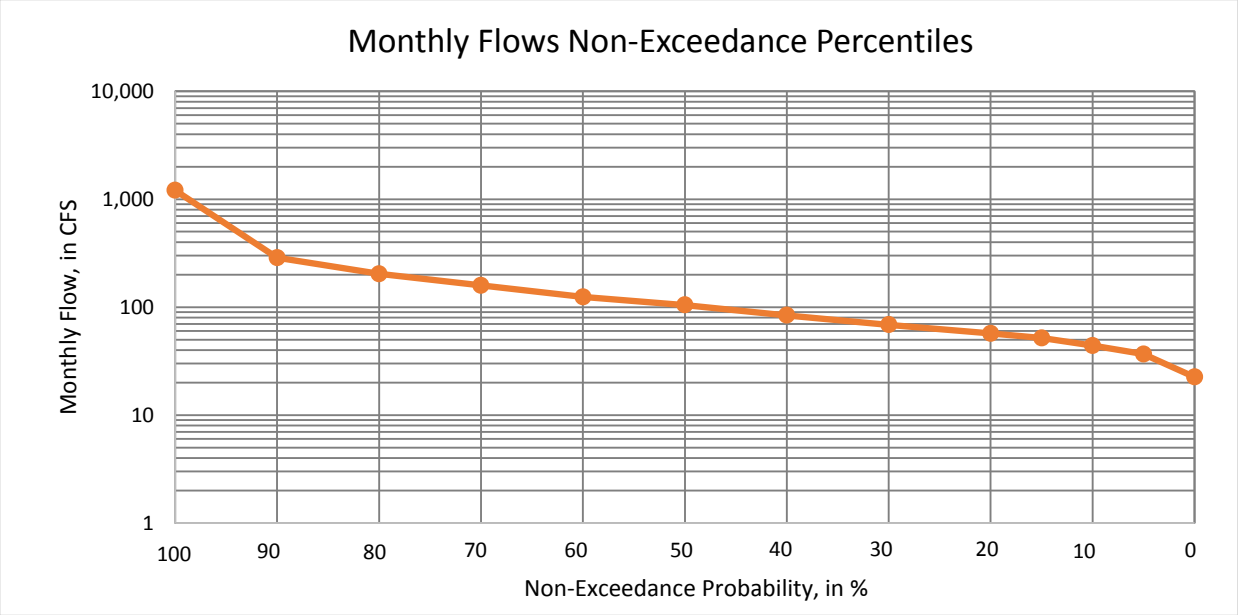
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	106	185	285	463	294	260	434	560	527	363	346	265	341
1976	263	193	174	130	244	143	80	80	90	133	138	187	155
1977	188	118	318	205	57	52	74	210	177	91	125	119	145
1978	414	220	302	128	591	372	169	134	72	56	68	92	219
1979	184	393	383	220	84	55	125	75	70	45	73	99	149
1980	141	98	565	491	250	110	69	50	46	65	84	60	170
1981	56	205	92	56	46	33	28	64	50	33	40	84	65
1982	190	397	164	115	56	44	91	83	38	36	43	99	111
1983	175	294	338	360	152	135	64	81	88	42	89	210	168
1984	203	140	242	121	79	53	90	215	58	61	80	100	120
1985	104	428	190	83	105	100	82	67	63	66	108	202	131
1986	227	171	243	60	53	40	58	59	87	62	105	130	108
1987	160	162	184	101	91	109	75	153	56	41	69	60	105
1988	141	173	162	79	38	32	51	40	288	104	75	62	103
1989	77	64	113	115	89	422	182	60	61	134	438	198	162
1990	369	329	1,207	201	230	108	60	47	43	58	46	62	231
1991	248	196	257	98	329	227	236	166	83	54	108	89	175
1992	278	282	195	101	60	107	101	111	57	45	270	221	151
1993	177	175	201	187	87	61	166	53	120	81	67	83	121
1994	171	157	183	153	93	379	571	121	93	181	84	113	192
1995	182	420	284	234	243	106	114	195	52	516	235	159	228
1996	201	241	363	382	144	133	83	88	69	53	58	93	158
1997	142	238	132	113	100	122	111	79	36	45	123	183	118
1998	326	257	691	159	64	43	56	64	675	235	140	109	235
1999	182	87	121	90	96	120	147	65	42	50	40	63	92
2000	82	65	52	40	25	27	26	36	44	23	72	87	48
2001	85	58	255	105	53	115	41	110	55	38	32	38	82
2002	47	67	72	57	24	29	38	35	95	83	114	130	66
2003	116	156	281	159	74	125	322	337	113	74	77	125	164
2004	112	287	101	77	94	143	122	65	227	113	253	209	149
2005	163	138	216	516	153	123	129	268	113	63	102	153	178
2006	212	154	121	55	74	37	52	57	38	60	83	49	82
2007	124	101	78	255	36	30	48	37	48	71	78	144	87
2008	198	356	132	134	52	38	44	142	49	53	40	138	113
2009	153	105	399	366	226	131	66	193	158	190	227	580	234
2010	437	400	235	114	109	76	72	67	46	36	68	61	142
2011	135	109	111	52	28	28	77	33	76	28	34	59	64
2012	86	143	76	51	51	132	47	98	120	73	41	78	82
2013	83	309	130	101	53	82	241	193	176	79	62	103	133
2014	113	153	198	401	262	118	63	52	66	85	57	109	139

Non-Exceedance Percentiles

02369800 - Blackwater River near Bradley, Ala. (represents Streamflow for 03140104)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	47	58	52	40	24	27	26	33	36	23	32	38	48
5th %	76	65	76	52	28	29	37	35	38	32	39	59	65
10th %	83	85	90	56	38	32	44	40	43	36	40	60	81
15th %	86	101	109	59	50	36	48	50	46	40	42	62	82
20th %	106	108	119	79	53	39	52	53	48	44	55	62	91
30th %	122	142	132	100	57	53	62	63	54	52	68	86	110
40th %	141	156	179	109	74	79	71	66	59	57	73	96	121
Median	167	174	197	118	88	107	78	80	69	63	79	106	141
60th %	182	199	237	141	95	116	90	92	84	72	86	121	150
70th %	193	246	264	191	119	123	117	125	94	81	108	140	163
80th %	215	297	305	239	226	133	151	172	120	105	127	184	175
90th %	282	394	385	384	251	230	237	210	182	181	237	209	228
Maximum	437	428	1,207	516	591	422	571	560	675	516	438	580	341
Average	176	206	246	173	125	115	118	116	112	93	110	130	143

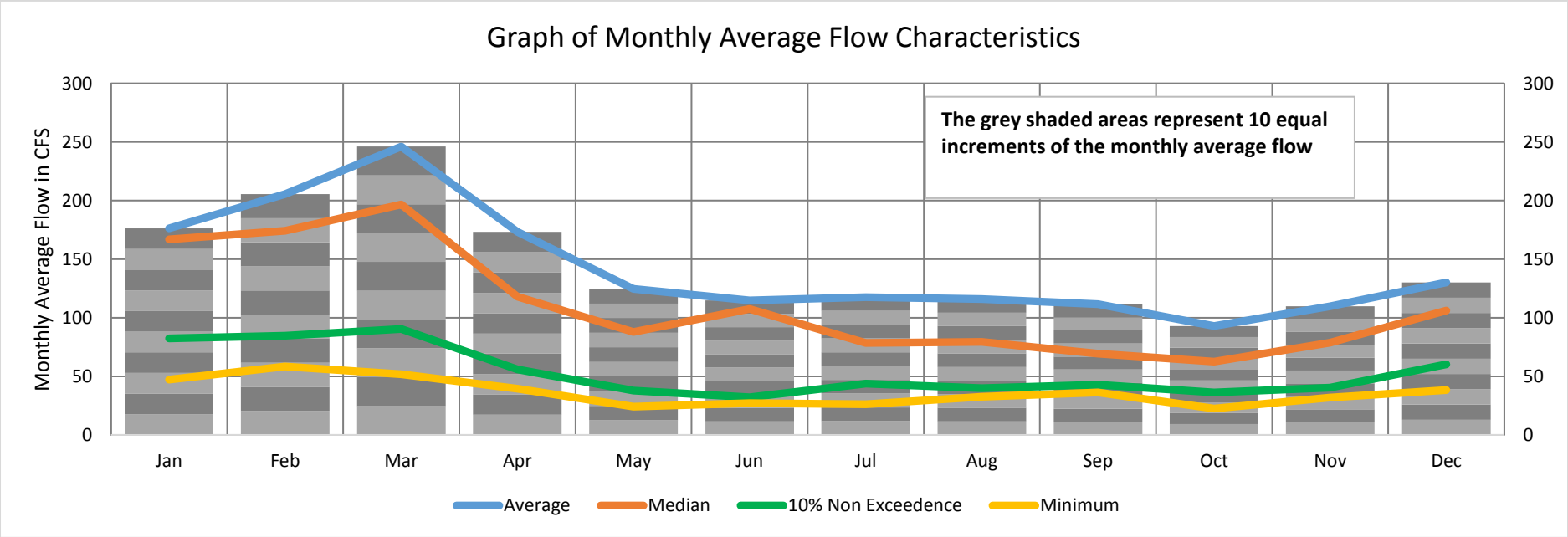
	Flows in CFS
Minimum	22.5
5th %	37
10th %	44
15th %	52
20th %	57
30th %	69
40th %	84
Median	105
60th %	124
70th %	159
80th %	204
90th %	287
Maximum	1,207
Average	143



Q10/Q50	0.42
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.26
Q5/DA	0.42
Q10/DA	0.50
Q15/DA	0.59
Q20/DA	0.65
Q30/DA	0.78
Q40/DA	0.96
Q50/DA	1.19
Q60/DA	1.42
Q70/DA	1.81
Q80/DA	2.32
Q90/DA	3.27
Qmax/DA	13.76

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

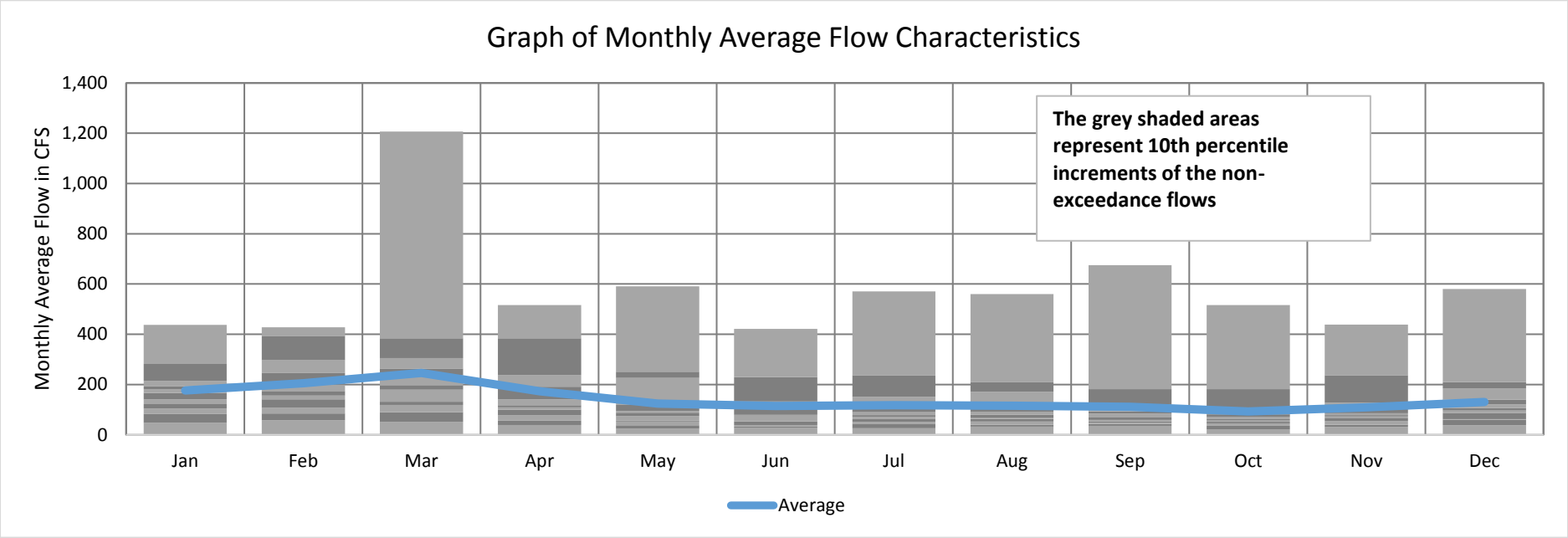
Site #: 02369800 Name: Blackwater River near Bradley, Ala. (represents Streamflow for 03140104)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	176	206	246	173	125	115	118	116	112	93	110	130
100%	437	428	1,207	516	591	422	571	560	675	516	438	580
98%	419	422	804	497	387	388	464	386	560	397	366	334
95%	371	401	571	465	295	372	328	271	300	241	274	223
90%	282	394	385	384	251	230	237	210	182	181	237	209
75%	202	283	284	209	152	131	126	145	113	87	116	154
50%	167	174	197	118	88	107	78	80	69	63	79	106
25%	112	133	128	88	53	43	57	59	49	45	61	82
10%	83	85	90	56	38	32	44	40	43	36	40	60
5%	76	65	76	52	28	29	37	35	38	32	39	59
2%	54	63	67	48	25	28	28	34	38	27	33	47
0%	47	58	52	40	24	27	26	33	36	23	32	38

Site #: 02369800 Name: Blackwater River near Bradley, Ala. (represents Streamflow for 03140104)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 88 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	176	206	246	173	125	115	118	116	112	93	110	130
100%	437	428	1,207	516	591	422	571	560	675	516	438	580
98%	419	422	804	497	387	388	464	386	560	397	366	334
95%	371	401	571	465	295	372	328	271	300	241	274	223
90%	282	394	385	384	251	230	237	210	182	181	237	209
75%	202	283	284	209	152	131	126	145	113	87	116	154
50%	167	174	197	118	88	107	78	80	69	63	79	106
25%	112	133	128	88	53	43	57	59	49	45	61	82
10%	83	85	90	56	38	32	44	40	43	36	40	60
5%	76	65	76	52	28	29	37	35	38	32	39	59
2%	54	63	67	48	25	28	28	34	38	27	33	47
0%	47	58	52	40	24	27	26	33	36	23	32	38

Monthly Flows (in CFS) for
02371000 - Conecuh River near Troy, Ala.

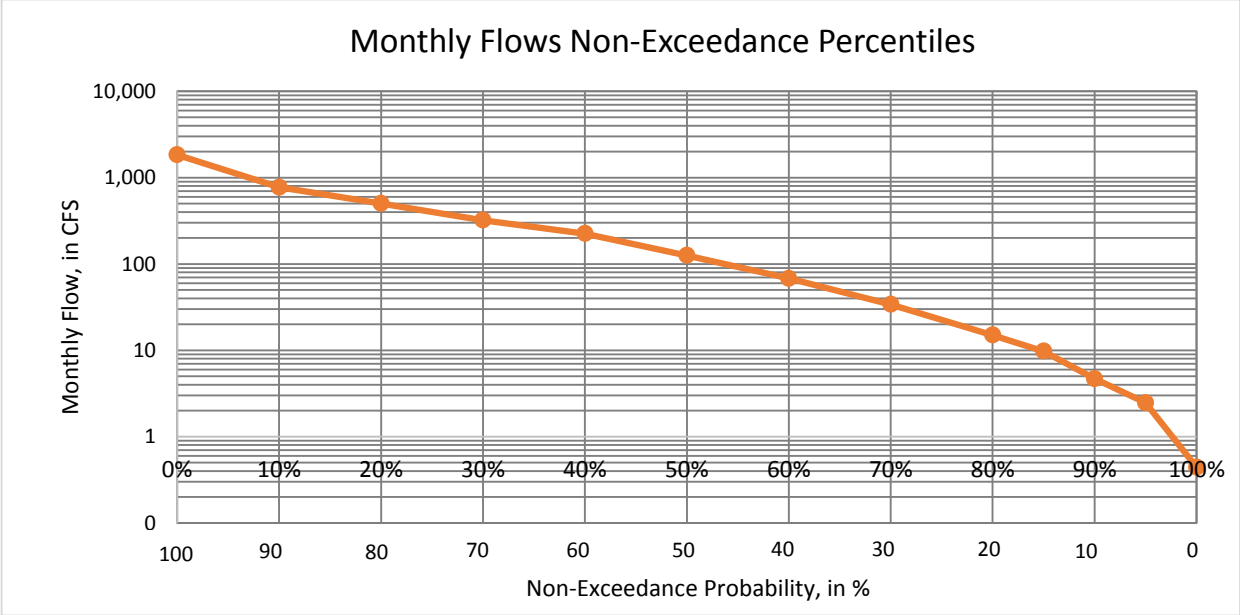
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	493	1,440	1,171	987	260	300	275	744	604	915	454	389	664
1976	532	462	573	542	803	424	89	53	38	56	147	675	366
1977	584	318	1,100	417	36	17	12	47	30	21	212	132	244
1978	1,315	577	583	402	677	192	46	143	6	3	7	47	333
1979	363	1,065	1,034	1,017	275	58	160	79	80	50	93	223	370
1980	324	299	948	1,306	590	138	26	10	8	17	33	37	311
1981	28	778	308	201	32	18	7	15	10	3	11	111	122
1982	582	967	372	340	288	25	140	127	16	6	43	425	274
1983	544	892	1,067	819	166	228	198	22	58	9	112	499	381
1984	549	406	711	244	182	13	7	69	4	2	12	107	192
1985	79	479	393	99	70	4	5	21	13	18	33	358	129
1986	285	417	1,066	106	20	8	2	1	9	6	80	217	184
1987	395	603	620	320	123	199	61	5	3	1	11	28	195
1988	527	350	686	259	24	2	15	2	36	42	50	31	168
1989	104	157	472	780	170	1,102	762	47	15	65	338	518	377
1990	1,164	917	1,827	461	261	70	29	4	1	4	6	22	396
1991	169	404	754	272	463	211	245	42	18	6	84	177	237
1992	850	816	560	274	39	133	61	15	11	14	775	807	360
1993	556	511	747	511	75	11	29	20	37	11	159	209	238
1994	236	526	359	219	44	124	1,607	306	56	110	94	213	325
1995	275	855	887	275	57	20	8	16	4	735	329	703	345
1996	743	1,097	794	901	211	116	24	32	215	29	47	86	352
1997	315	699	358	229	400	187	102	23	3	36	328	988	304
1998	880	1,073	1,542	385	70	10	14	11	180	604	51	44	403
1999	224	259	587	134	240	225	550	34	6	19	17	64	197
2000	130	76	296	73	4	1	1	1	1	0	6	42	53
2001	288	182	1,833	644	17	279	27	90	17	4	43	71	293
2002	102	285	531	228	19	14	21	10	6	81	232	439	164
2003	286	325	807	720	360	912	947	623	326	89	87	308	484
2004	283	715	320	57	87	124	83	54	597	81	236	302	241
2005	174	270	325	1,173	130	118	379	366	67	24	29	134	265
2006	227	250	289	68	211	3	2	2	4	6	91	38	98
2007	217	148	159	295	8	1	3	1	1	2	6	37	73
2008	306	458	288	213	7	1	2	364	72	10	18	457	182
2009	262	95	771	877	384	185	45	68	150	49	515	1,692	427
2010	1,147	1,077	881	172	353	55	16	12	4	3	24	55	313
2011	81	346	467	149	4	1	3	1	2	1	2	27	89
2012	70	264	120	132	32	50	3	4	12	3	3	65	62
2013	120	1,022	662	265	38	11	614	526	44	8	10	167	287
2014	346	636	441	1,332	446	105	36	22	13	14	19	96	288

Non-Exceedance Percentiles

02371000 - Conecuh River near Troy, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	28	76	120	57	4	1	1	1	1	0	2	22	53
5th %	79	146	281	73	7	1	2	1	1	1	6	28	72
10th %	100	179	295	105	16	2	3	2	3	2	6	37	97
15th %	117	258	318	134	20	4	3	4	4	3	9	38	128
20th %	161	269	351	168	31	10	7	5	4	3	11	44	167
30th %	226	323	426	225	39	14	13	12	6	6	19	65	194
40th %	280	405	548	263	70	23	23	18	10	9	33	103	240
Median	297	470	604	285	126	64	29	23	14	14	48	150	280
60th %	353	587	726	392	193	120	52	44	23	20	85	215	307
70th %	529	734	798	520	260	152	93	58	40	38	99	323	337
80th %	561	897	965	788	354	202	207	97	68	58	216	442	367
90th %	853	1,066	1,107	990	448	281	557	364	183	91	330	678	396
Maximum	1,315	1,440	1,833	1,332	803	1,102	1,607	744	604	915	775	1,692	664
Average	404	563	693	448	192	142	166	101	69	79	121	276	270

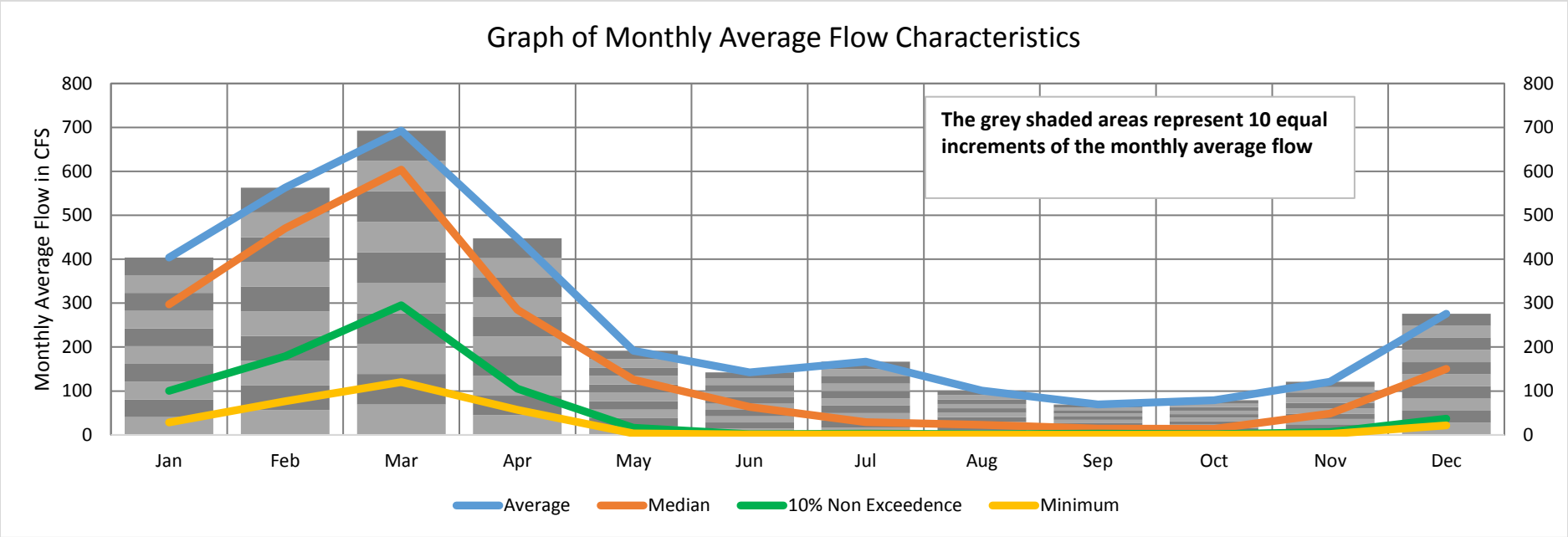
	Flows in CFS
Minimum	0.4
5th %	2
10th %	5
15th %	10
20th %	15
30th %	34
40th %	68
Median	125
60th %	224
70th %	321
80th %	502
90th %	775
Maximum	1,833
Average	271



Q10/Q50	0.04
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.01
Q10/DA	0.02
Q15/DA	0.04
Q20/DA	0.06
Q30/DA	0.13
Q40/DA	0.26
Q50/DA	0.49
Q60/DA	0.87
Q70/DA	1.25
Q80/DA	1.95
Q90/DA	3.02
Qmax/DA	7.13

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

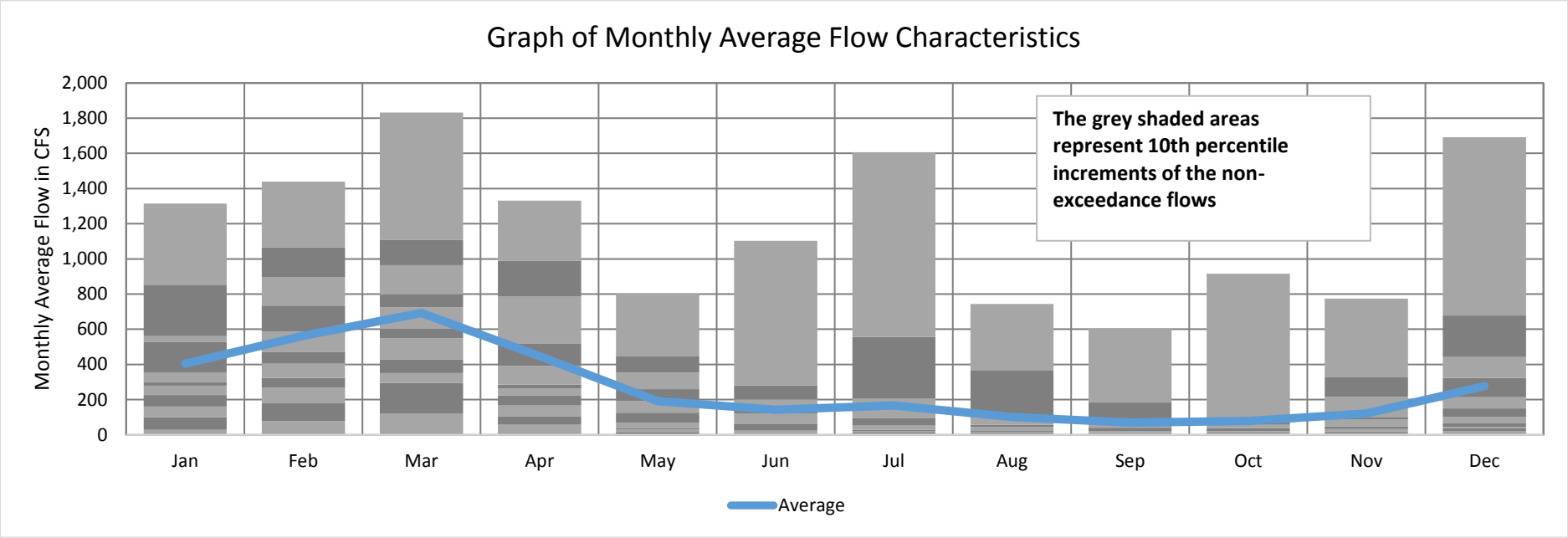
Site #: 02371000 Name: Conecuh River near Troy, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	404	563	693	448	192	142	166	101	69	79	121	276
100%	1,315	1,440	1,833	1,332	803	1,102	1,607	744	604	915	775	1,692
98%	1,197	1,172	1,828	1,312	705	954	1,092	650	599	775	572	1,143
95%	1,148	1,078	1,556	1,179	594	448	771	531	340	610	457	816
90%	853	1,066	1,107	990	448	281	557	364	183	91	330	678
75%	545	826	883	663	278	188	145	72	56	49	150	398
50%	297	470	604	285	126	64	29	23	14	14	48	150
25%	206	296	369	210	35	11	7.6	10	5.2	4.0	16	53
10%	100	179	295	105	16	1.8	2.7	1.6	3.0	1.8	6.5	37
5%	79	146	281	73	7.3	1.3	2.3	0.7	1.3	1.0	6.1	28
2%	61	91	150	65	4.0	1.1	1.5	0.5	1.1	0.5	2.5	26
0%	28	76	120	57	3.7	1.0	1.1	0.5	0.6	0.4	2.3	22

Site #: 02371000 Name: Conecuh River near Troy, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 257 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	404	563	693	448	192	142	166	101	69	79	121	276
100%	1,315	1,440	1,833	1,332	803	1,102	1,607	744	604	915	775	1,692
98%	1,197	1,172	1,828	1,312	705	954	1,092	650	599	775	572	1,143
95%	1,148	1,078	1,556	1,179	594	448	771	531	340	610	457	816
90%	853	1,066	1,107	990	448	281	557	364	183	91	330	678
75%	545	826	883	663	278	188	145	72	56	49	150	398
50%	297	470	604	285	126	64	29	23	14	14	48	150
25%	206	296	369	210	35	11	7.6	10	5.2	4.0	16	53
10%	100	179	295	105	16	1.8	2.7	1.6	3.0	1.8	6.5	37
5%	79	146	281	73	7.3	1.3	2.3	0.7	1.3	1.0	6.1	28
2%	61	91	150	65	4.0	1.1	1.5	0.5	1.1	0.5	2.5	26
0%	28	76	120	57	3.7	1.0	1.1	0.5	0.6	0.4	2.3	22

Monthly Flows (in CFS) for
02371500 - Conecuh River at Brantley, Ala.

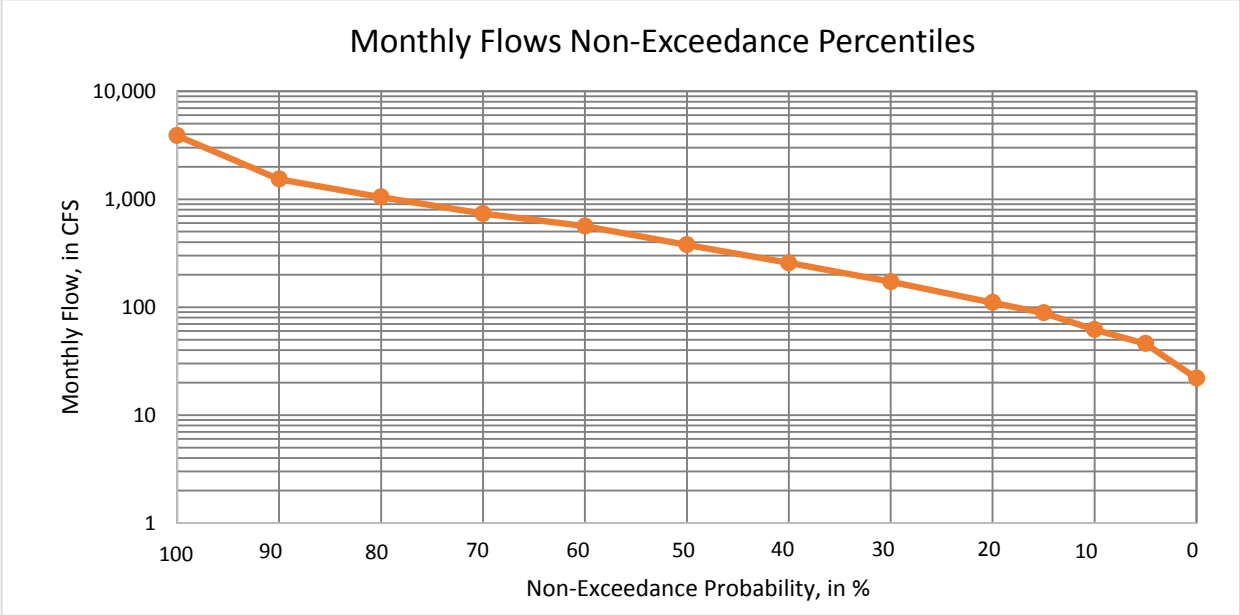
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,030	2,893	2,305	1,934	625	695	652	1,475	1,224	1,794	962	850	1,359
1976	1,098	976	1,170	1,116	1,583	910	304	223	184	228	420	1,350	797
1977	1,189	727	2,159	899	177	117	98	205	161	132	540	390	566
1978	2,612	1,177	1,187	872	1,354	504	204	412	72	49	74	207	727
1979	805	2,087	2,025	1,992	652	234	445	281	283	214	312	561	815
1980	737	694	1,857	2,592	1,199	403	148	91	79	116	168	181	687
1981	154	1,538	710	520	166	120	75	109	88	47	96	350	322
1982	1,185	1,894	821	765	675	146	407	380	113	68	195	912	623
1983	1,118	1,750	2,091	1,613	455	569	514	136	234	86	350	1,041	824
1984	1,127	880	1,416	597	485	100	77	259	57	40	98	340	455
1985	282	1,006	858	323	260	57	61	133	104	121	170	797	344
1986	670	898	2,090	339	129	78	46	36	85	69	284	549	438
1987	861	1,222	1,253	731	372	517	241	62	51	31	93	155	461
1988	1,090	783	1,370	625	143	40	110	40	178	193	213	164	411
1989	335	439	994	1,541	463	2,163	1,508	206	109	250	762	1,073	820
1990	2,290	1,797	3,858	975	628	261	155	59	35	58	72	134	858
1991	462	876	1,494	648	978	538	599	194	120	70	293	476	561
1992	1,670	1,608	1,147	651	186	393	241	112	93	107	1,531	1,590	772
1993	1,139	1,061	1,480	1,061	273	96	157	129	181	95	443	535	551
1994	583	1,088	798	552	199	375	3,291	706	228	347	313	542	753
1995	651	1,681	1,740	653	232	129	79	113	56	1,459	747	1,401	741
1996	1,474	2,152	1,567	1,767	538	358	141	165	546	157	207	296	770
1997	722	1,393	797	571	869	494	331	139	53	178	745	1,936	682
1998	1,728	2,104	3,133	844	260	90	107	95	481	1,224	217	199	869
1999	562	624	1,195	396	590	563	1,130	172	67	126	117	248	483
2000	388	276	689	269	58	32	32	24	35	22	71	195	174
2001	675	485	3,875	1,295	119	659	152	304	116	55	197	263	686
2002	331	670	1,096	569	124	108	133	88	71	286	576	936	415
2003	671	740	1,591	1,431	800	1,789	1,856	1,258	742	302	299	710	1,018
2004	667	1,423	731	232	300	374	290	223	1,212	287	582	699	578
2005	470	643	739	2,308	386	363	833	811	255	141	157	394	623
2006	567	608	677	256	537	52	38	38	55	69	307	182	281
2007	550	422	442	687	80	35	54	23	25	38	72	181	216
2008	707	970	674	543	77	36	45	807	266	90	123	968	440
2009	629	316	1,525	1,721	842	491	201	257	425	211	1,068	3,505	938
2010	2,254	2,112	1,730	467	788	226	114	98	60	54	140	227	682
2011	287	777	986	424	55	30	48	27	39	23	44	152	238
2012	262	633	368	391	167	215	53	56	99	50	47	251	213
2013	366	2,002	1,328	634	181	94	1,241	1,088	197	79	88	457	639
2014	777	1,281	939	2,649	949	337	176	133	102	104	126	319	651

Non-Exceedance Percentiles

02371500 - Conecuh River at Brantley, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	154	276	368	232	55	30	32	23	25	22	44	134	174
5th %	281	417	662	268	76	35	44	27	35	30	70	155	216
10th %	327	480	687	337	115	40	48	38	50	40	72	179	276
15th %	361	621	728	395	128	56	54	54	54	49	86	182	341
20th %	447	641	785	459	161	88	72	61	57	53	95	198	414
30th %	565	736	915	564	185	105	104	97	72	69	125	250	459
40th %	660	878	1,127	630	260	139	138	122	91	83	169	332	564
Median	691	991	1,224	670	379	248	156	138	107	106	210	426	631
60th %	788	1,195	1,442	855	506	368	219	199	136	128	296	545	684
70th %	1,092	1,458	1,574	1,078	626	429	312	233	188	183	324	737	745
80th %	1,148	1,759	1,891	1,555	790	521	531	319	257	233	547	942	801
90th %	1,676	2,089	2,174	1,940	952	662	1,141	808	488	307	748	1,355	859
Maximum	2,612	2,893	3,875	2,649	1,583	2,163	3,291	1,475	1,224	1,794	1,531	3,505	1,359
Average	879	1,168	1,423	961	474	370	410	279	214	227	333	643	612

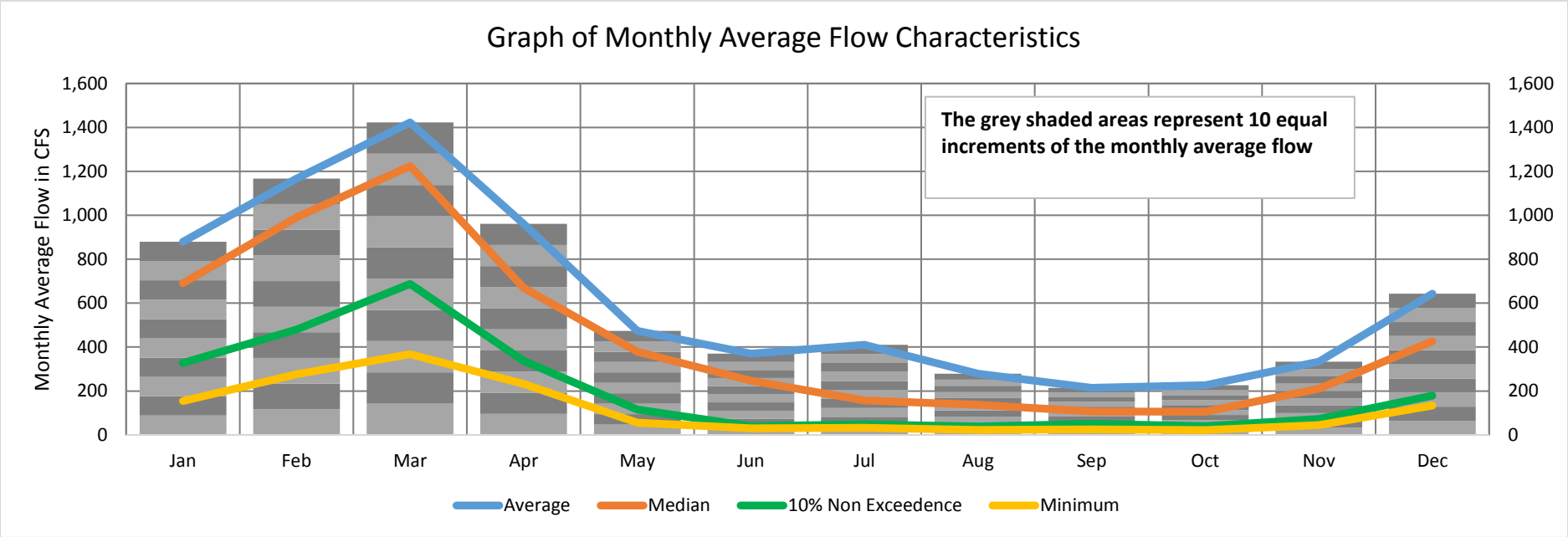
	Flows in CFS
Minimum	21.9
5th %	46
10th %	62
15th %	88
20th %	110
30th %	172
40th %	257
Median	377
60th %	562
70th %	733
80th %	1,045
90th %	1,532
Maximum	3,875
Average	615



Q10/Q50	0.16
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.04
Q5/DA	0.09
Q10/DA	0.12
Q15/DA	0.18
Q20/DA	0.22
Q30/DA	0.34
Q40/DA	0.51
Q50/DA	0.75
Q60/DA	1.12
Q70/DA	1.47
Q80/DA	2.09
Q90/DA	3.06
Qmax/DA	7.75

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

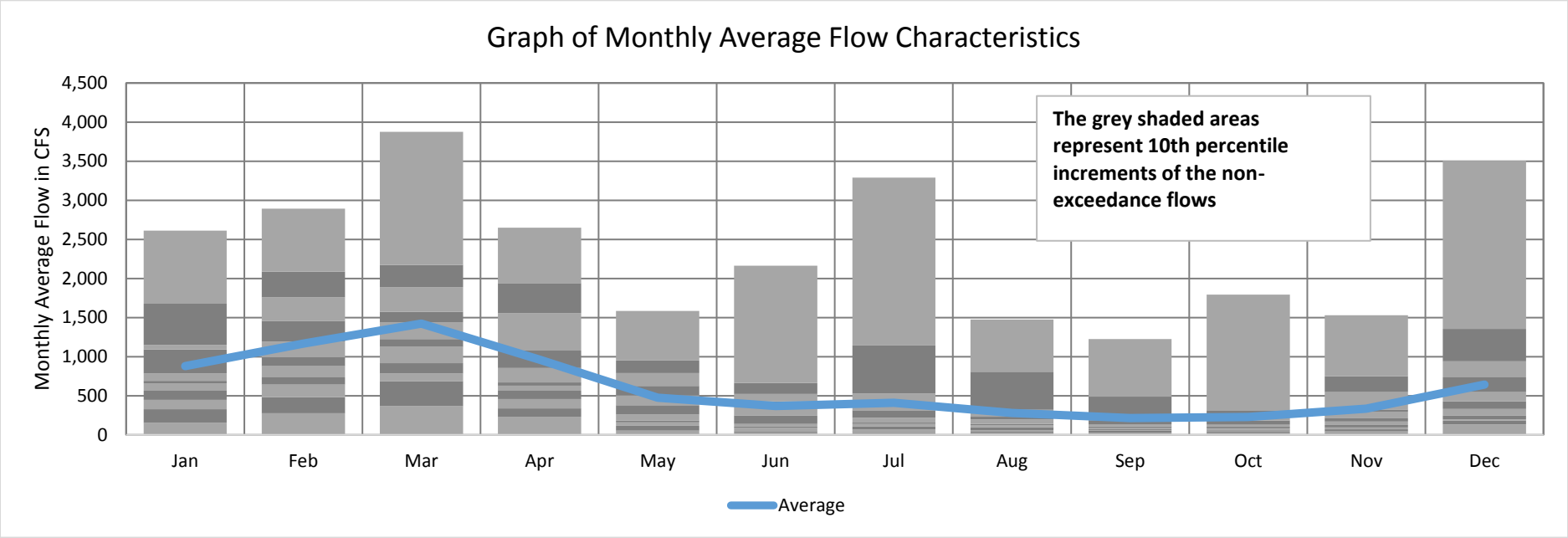
Site #: 02371500 Name: Conecuh River at Brantley, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	879	1,168	1,423	961	474	370	410	279	214	227	333	643
100%	2,612	2,893	3,875	2,649	1,583	2,163	3,291	1,475	1,224	1,794	1,531	3,505
98%	2,361	2,315	3,862	2,605	1,404	1,871	2,172	1,306	1,215	1,533	1,170	2,281
95%	2,256	2,114	3,169	2,322	1,207	954	1,525	1,097	765	1,236	967	1,607
90%	1,676	2,089	2,174	1,940	952	662	1,141	808	488	307	748	1,355
75%	1,120	1,626	1,733	1,329	657	497	417	265	230	212	426	866
50%	691	991	1,224	670	379	248	156	138	107	106	210	426
25%	530	688	815	537	174	96	78	90	65	57	113	222
10%	327	480	687	337	115	40	48	38	50	40	72	179
5%	281	417	662	268	76	35	44	27	35	30	70	155
2%	238	307	426	251	58	32	37	23	32	23	46	148
0%	154	276	368	232	55	30	32	23	25	22	44	134

Site #: 02371500 Name: Conecuh River at Brantley, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 500 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	879	1,168	1,423	961	474	370	410	279	214	227	333	643
100%	2,612	2,893	3,875	2,649	1,583	2,163	3,291	1,475	1,224	1,794	1,531	3,505
98%	2,361	2,315	3,862	2,605	1,404	1,871	2,172	1,306	1,215	1,533	1,170	2,281
95%	2,256	2,114	3,169	2,322	1,207	954	1,525	1,097	765	1,236	967	1,607
90%	1,676	2,089	2,174	1,940	952	662	1,141	808	488	307	748	1,355
75%	1,120	1,626	1,733	1,329	657	497	417	265	230	212	426	866
50%	691	991	1,224	670	379	248	156	138	107	106	210	426
25%	530	688	815	537	174	96	78	90	65	57	113	222
10%	327	480	687	337	115	40	48	38	50	40	72	179
5%	281	417	662	268	76	35	44	27	35	30	70	155
2%	238	307	426	251	58	32	37	23	32	23	46	148
0%	154	276	368	232	55	30	32	23	25	22	44	134

Monthly Flows (in CFS) for
02372250 - Patsaliga Creek near Brantley, Ala.

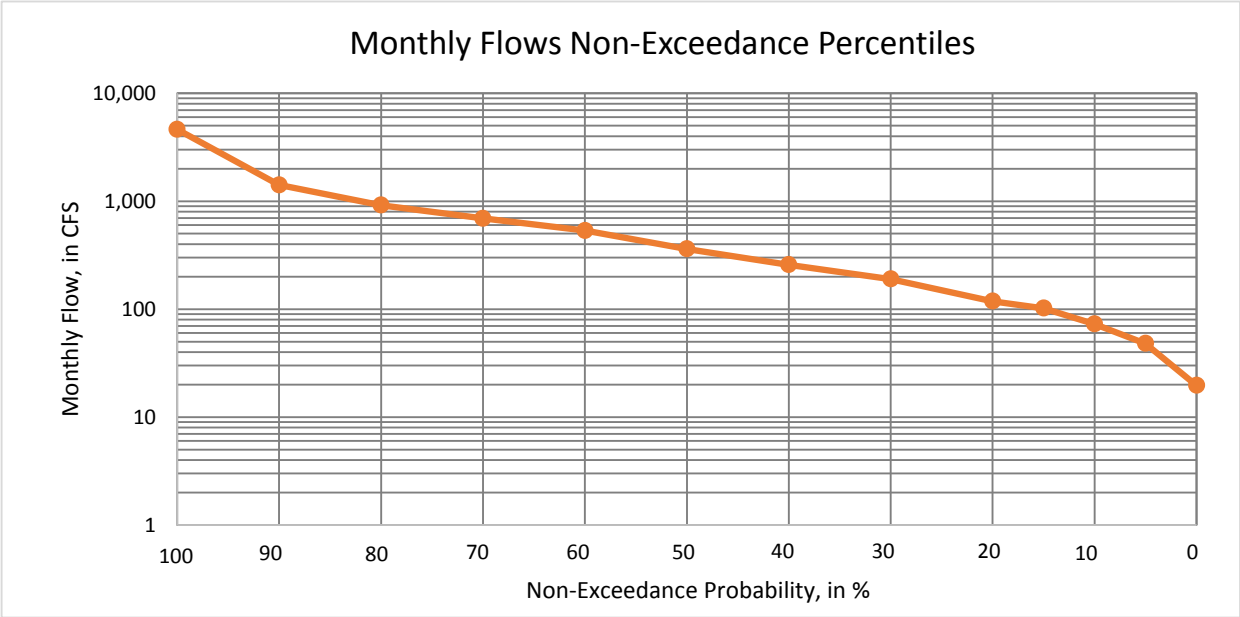
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,105	2,505	1,991	1,716	678	692	491	1,396	1,628	1,790	954	840	1,306
1976	1,512	870	1,302	1,243	1,841	904	340	244	214	196	444	1,225	863
1977	1,104	586	2,054	922	244	183	265	308	224	177	366	316	564
1978	2,021	899	958	840	1,249	754	253	355	112	81	149	292	664
1979	841	2,016	1,829	1,835	515	239	416	306	287	172	299	500	762
1980	767	595	1,744	2,232	981	293	127	102	106	154	176	190	622
1981	162	1,006	536	433	157	97	45	66	77	44	82	290	244
1982	906	1,756	740	650	690	155	294	322	118	114	205	741	551
1983	998	1,586	1,971	1,561	450	557	518	174	306	128	501	1,082	814
1984	1,095	849	1,242	615	395	112	92	463	72	57	117	312	451
1985	303	1,120	925	348	350	66	107	104	83	104	224	712	366
1986	575	780	1,895	345	154	114	55	52	198	61	230	387	403
1987	555	1,104	1,027	633	433	369	213	104	44	35	123	200	399
1988	827	758	1,043	537	102	48	108	52	230	153	233	224	357
1989	320	277	754	1,411	307	1,591	1,164	165	97	188	568	916	647
1990	1,911	1,745	4,627	1,136	549	203	138	84	41	54	75	171	893
1991	448	790	1,421	701	912	356	235	121	134	76	202	262	470
1992	1,293	1,676	799	489	178	500	302	189	105	117	1,763	1,526	737
1993	1,123	911	1,429	1,147	313	109	164	224	163	119	369	498	546
1994	542	919	773	538	216	353	1,885	661	192	372	303	591	612
1995	593	1,198	1,316	461	163	200	83	99	57	1,054	558	848	550
1996	1,054	1,627	1,401	1,542	637	284	200	196	699	202	249	412	701
1997	847	1,506	935	613	829	673	347	154	50	134	628	1,682	696
1998	1,425	1,650	2,807	815	261	108	118	97	1,227	1,560	283	268	882
1999	558	626	1,134	377	521	719	1,076	181	77	128	132	249	482
2000	329	269	533	202	46	23	25	43	52	22	149	332	169
2001	780	559	3,739	1,178	166	520	163	325	141	73	306	365	696
2002	424	599	993	466	118	81	140	75	78	363	582	697	384
2003	537	680	1,387	1,463	684	1,361	1,590	1,260	753	234	316	720	917
2004	661	1,372	588	210	199	496	242	197	1,370	317	647	732	578
2005	510	719	964	2,369	362	398	708	701	253	205	260	637	672
2006	727	789	742	229	681	62	41	46	48	93	266	181	323
2007	560	360	383	440	52	31	51	20	26	48	91	174	185
2008	668	915	622	468	89	31	36	491	100	64	127	509	340
2009	503	270	1,495	1,304	629	311	157	225	668	270	823	3,152	822
2010	1,993	1,713	1,993	469	622	223	111	114	60	70	163	207	641
2011	263	645	856	399	66	39	111	30	38	25	72	212	227
2012	233	546	436	415	157	210	55	54	221	56	47	219	218
2013	353	1,848	983	542	193	130	801	601	149	92	115	469	515
2014	730	1,308	966	2,741	789	414	170	191	74	106	167	449	668

Non-Exceedance Percentiles

02372250 - Patsaliga Creek near Brantley, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	162	269	383	202	46	23	25	20	26	22	47	171	169
5th %	262	277	529	228	65	31	40	42	40	34	75	181	216
10th %	318	528	583	347	101	47	50	51	47	48	90	199	242
15th %	350	582	722	396	148	65	55	53	52	56	116	212	338
20th %	443	598	752	429	157	94	90	73	59	60	126	223	365
30th %	541	707	904	467	188	113	111	101	77	75	159	283	436
40th %	569	790	965	537	254	193	139	118	99	99	204	325	533
Median	697	905	1,035	624	356	231	167	178	115	118	241	430	571
60th %	799	1,045	1,308	825	476	328	237	196	155	142	289	503	643
70th %	933	1,327	1,423	1,156	624	403	296	263	216	180	331	702	679
80th %	1,104	1,632	1,842	1,421	682	528	431	331	260	211	513	761	742
90th %	1,434	1,746	1,999	1,728	837	722	829	607	704	364	630	1,096	865
Maximum	2,021	2,505	4,627	2,741	1,841	1,591	1,885	1,396	1,628	1,790	1,763	3,152	1,306
Average	804	1,049	1,333	901	449	350	336	265	264	233	334	595	573

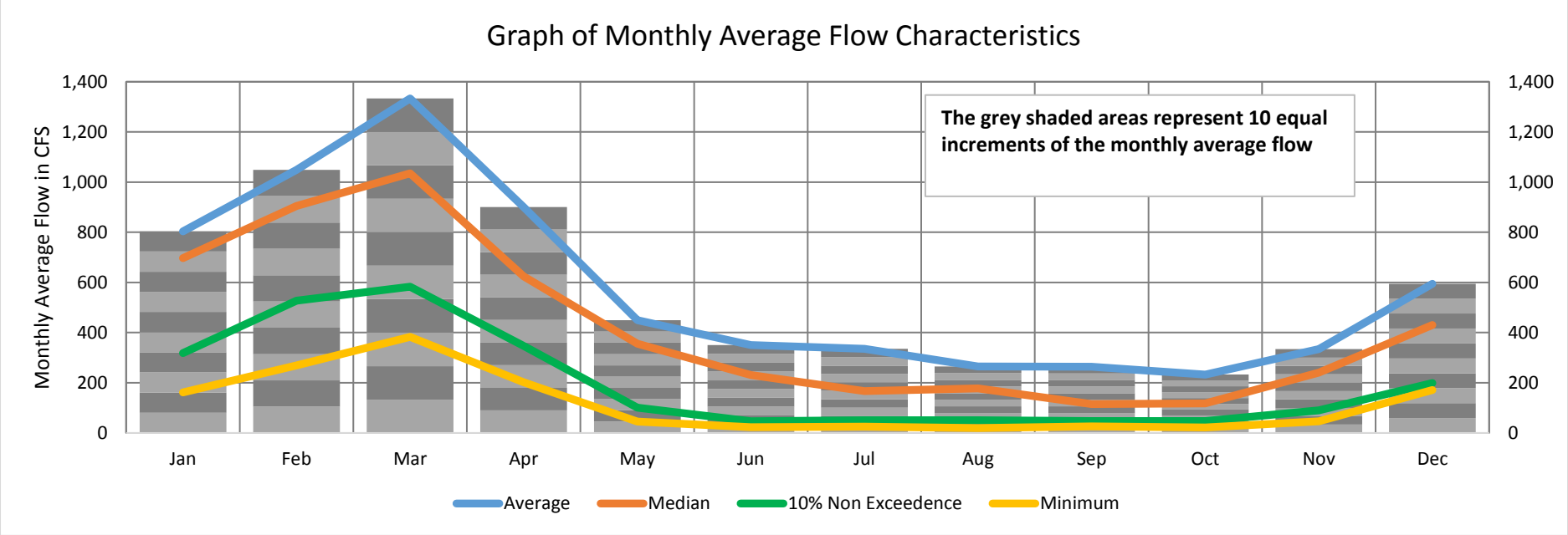
	Flows in CFS
Minimum	19.6
5th %	48
10th %	73
15th %	102
20th %	118
30th %	190
40th %	257
Median	361
60th %	534
70th %	693
80th %	919
90th %	1,412
Maximum	4,627
Average	576



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.04
Q5/DA	0.11
Q10/DA	0.16
Q15/DA	0.23
Q20/DA	0.27
Q30/DA	0.43
Q40/DA	0.58
Q50/DA	0.82
Q60/DA	1.21
Q70/DA	1.57
Q80/DA	2.08
Q90/DA	3.19
Qmax/DA	10.47

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

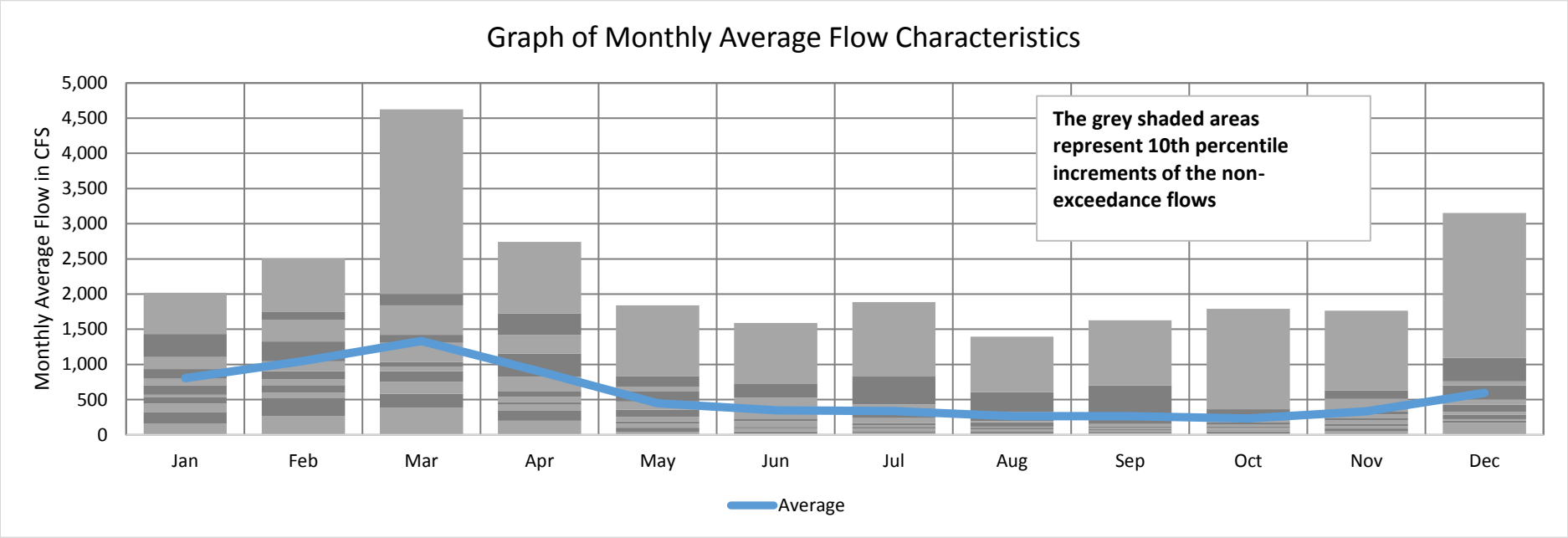
Site #: 02372250 Name: Patsaliga Creek near Brantley, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	804	1,049	1,333	901	449	350	336	265	264	233	334	595
100%	2,021	2,505	4,627	2,741	1,841	1,591	1,885	1,396	1,628	1,790	1,763	3,152
98%	1,999	2,124	3,934	2,451	1,379	1,412	1,655	1,290	1,427	1,611	1,132	2,005
95%	1,915	1,856	2,854	2,239	994	927	1,185	728	1,234	1,079	830	1,534
90%	1,434	1,746	1,999	1,728	837	722	829	607	704	364	630	1,096
75%	1,064	1,526	1,557	1,258	647	497	342	311	226	197	388	723
50%	697	905	1,035	624	356	231	167	178	115	118	241	430
25%	508	641	792	455	166	109	107	94	74	69	145	258
10%	318	528	583	347	101	47	50	51	47	48	90	199
5%	262	277	529	228	65	31	40	42	40	34	75	181
2%	217	269	425	208	50	29	34	28	35	24	67	174
0%	162	269	383	202	46	23	25	20	26	22	47	171

Site #: 02372250 Name: Patsaliga Creek near Brantley, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 442 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	804	1,049	1,333	901	449	350	336	265	264	233	334	595
100%	2,021	2,505	4,627	2,741	1,841	1,591	1,885	1,396	1,628	1,790	1,763	3,152
98%	1,999	2,124	3,934	2,451	1,379	1,412	1,655	1,290	1,427	1,611	1,132	2,005
95%	1,915	1,856	2,854	2,239	994	927	1,185	728	1,234	1,079	830	1,534
90%	1,434	1,746	1,999	1,728	837	722	829	607	704	364	630	1,096
75%	1,064	1,526	1,557	1,258	647	497	342	311	226	197	388	723
50%	697	905	1,035	624	356	231	167	178	115	118	241	430
25%	508	641	792	455	166	109	107	94	74	69	145	258
10%	318	528	583	347	101	47	50	51	47	48	90	199
5%	262	277	529	228	65	31	40	42	40	34	75	181
2%	217	269	425	208	50	29	34	28	35	24	67	174
0%	162	269	383	202	46	23	25	20	26	22	47	171

Monthly Flows (in CFS) for

02372422 - Conecuh River below Point A Dam At River Falls, Ala.

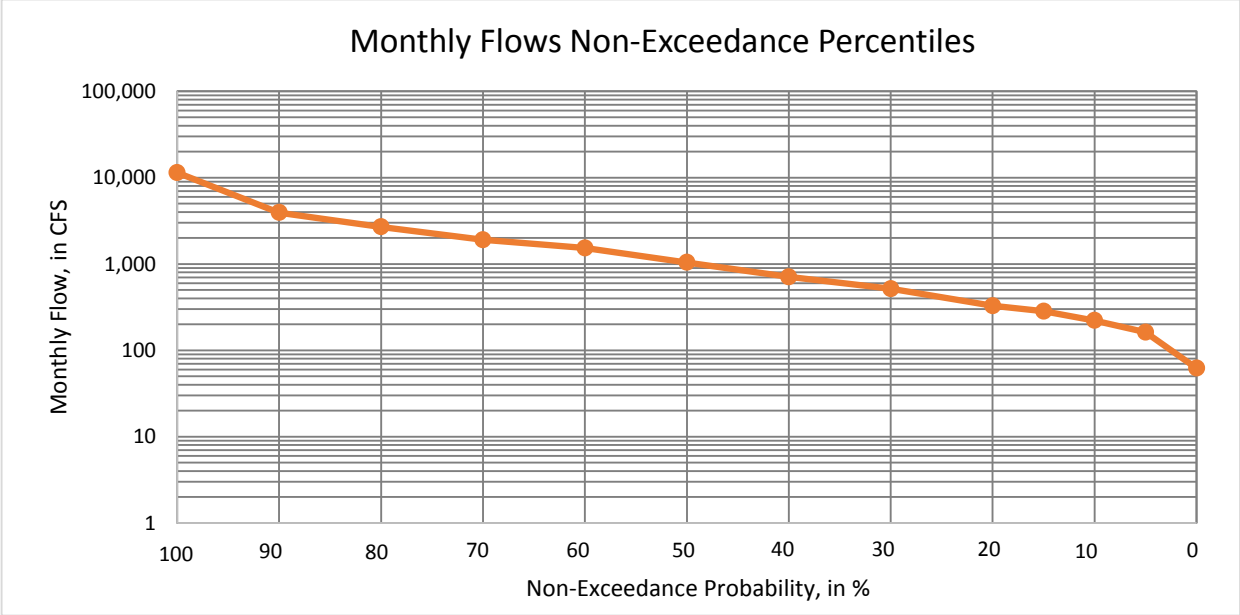
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,895	7,278	5,798	4,930	1,777	1,889	1,563	3,884	3,858	4,841	2,601	2,296	3,608
1976	3,533	2,507	3,348	3,196	4,627	2,464	893	653	561	597	1,188	3,486	2,257
1977	3,107	1,790	5,686	2,473	592	430	514	716	544	441	1,243	976	1,545
1978	6,251	2,816	2,908	2,327	3,524	1,717	641	1,058	274	202	326	697	1,896
1979	2,237	5,539	5,204	5,168	1,594	661	1,183	816	794	546	847	1,452	2,146
1980	2,047	1,758	4,864	6,507	2,955	962	395	286	275	389	488	525	1,785
1981	451	3,444	1,700	1,307	460	318	188	263	248	148	265	886	788
1982	2,836	4,930	2,123	1,927	1,861	430	968	969	337	272	565	2,248	1,604
1983	2,869	4,508	5,484	4,291	1,242	1,539	1,414	444	752	314	1,171	2,879	2,227
1984	3,012	2,349	3,598	1,655	1,209	312	253	998	200	157	315	902	1,244
1985	813	2,883	2,422	928	847	192	253	345	278	329	557	2,054	982
1986	1,700	2,281	5,380	945	406	284	162	145	406	201	717	1,285	1,156
1987	1,928	3,152	3,090	1,859	1,109	1,216	637	249	155	114	317	503	1,181
1988	2,602	2,097	3,268	1,587	357	145	320	149	574	492	627	547	1,059
1989	906	989	2,374	3,992	1,060	5,070	3,616	524	304	614	1,813	2,699	1,997
1990	5,670	4,785	11,425	2,863	1,609	651	421	219	128	177	225	436	2,380
1991	1,249	2,264	3,943	1,838	2,565	1,227	1,147	450	368	223	691	1,017	1,413
1992	4,007	4,438	2,641	1,559	516	1,226	757	430	293	327	4,452	4,213	2,054
1993	3,066	2,676	3,935	2,993	814	302	458	501	488	314	1,119	1,414	1,500
1994	1,539	2,722	2,137	1,491	584	1,005	6,980	1,863	591	992	855	1,549	1,861
1995	1,698	3,894	4,132	1,523	558	468	244	312	178	3,403	1,780	3,048	1,761
1996	3,423	5,103	4,014	4,472	1,606	889	486	511	1,698	509	639	978	2,003
1997	2,134	3,921	2,354	1,618	2,309	1,594	938	421	165	447	1,872	4,887	1,878
1998	4,263	5,070	8,006	2,256	727	293	330	285	2,322	3,767	699	654	2,378
1999	1,531	1,706	3,156	1,065	1,519	1,749	2,893	433	175	308	306	591	1,288
2000	830	684	1,335	597	143	91	62	75	125	132	352	687	425
2001	1,677	1,290	9,953	3,077	497	1,609	526	1,022	525	288	590	911	1,839
2002	1,046	1,483	2,310	1,207	264	232	350	227	234	1,016	1,704	2,375	1,036
2003	1,724	1,925	3,964	3,712	2,145	3,940	4,274	3,103	1,883	637	917	1,481	2,478
2004	1,710	3,633	1,831	675	649	1,333	898	620	3,305	880	1,747	2,084	1,596
2005	1,373	1,992	1,955	6,574	1,115	1,098	1,972	2,717	985	666	663	1,317	1,863
2006	1,629	1,941	1,846	777	1,513	227	158	164	178	253	955	398	831
2007	1,461	1,099	1,082	1,635	213	131	178	67	107	184	313	799	602
2008	2,050	2,858	1,988	1,548	212	78	98	1,448	592	239	383	2,081	1,122
2009	1,554	878	3,459	5,031	2,270	1,172	503	659	1,444	879	2,542	9,464	2,500
2010	6,149	5,340	4,674	1,284	1,799	627	309	475	210	205	490	672	1,837
2011	831	1,772	2,339	1,069	165	75	221	95	178	73	174	572	624
2012	759	1,633	1,054	1,083	405	637	216	272	745	171	126	625	636
2013	1,026	5,329	3,161	1,607	529	327	2,770	2,296	493	257	299	1,272	1,593
2014	2,051	3,505	2,587	7,268	2,362	1,035	493	462	264	309	420	1,058	1,799

Non-Exceedance Percentiles

02372422 - Conecuh River below Point A Dam At River Falls, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	451	684	1,054	597	143	75	62	67	107	73	126	398	425
5th %	810	983	1,322	771	210	90	155	94	128	131	222	500	623
10th %	831	1,271	1,818	944	259	143	177	149	164	156	295	545	773
15th %	1,008	1,611	1,939	1,068	398	222	212	211	177	176	312	588	959
20th %	1,208	1,747	2,096	1,182	450	274	240	245	178	198	316	648	1,054
30th %	1,536	1,936	2,349	1,513	550	316	316	286	244	234	409	769	1,226
40th %	1,690	2,274	2,619	1,599	696	453	411	427	277	282	561	950	1,527
Median	1,826	2,699	3,158	1,747	1,085	656	498	456	353	314	651	1,165	1,682
60th %	2,084	2,990	3,514	2,284	1,350	1,017	639	516	505	410	769	1,429	1,838
70th %	2,846	3,711	3,979	3,018	1,607	1,219	910	676	579	520	1,004	2,062	1,883
80th %	3,074	4,564	4,932	4,052	1,918	1,550	1,229	1,003	761	643	1,336	2,312	2,073
90th %	4,033	5,126	5,698	5,045	2,382	1,763	2,782	1,906	1,717	995	1,819	3,092	2,378
Maximum	6,251	7,278	11,425	7,268	4,627	5,070	6,980	3,884	3,858	4,841	4,452	9,464	3,608
Average	2,291	3,007	3,663	2,548	1,268	991	1,017	766	681	658	934	1,700	1,619

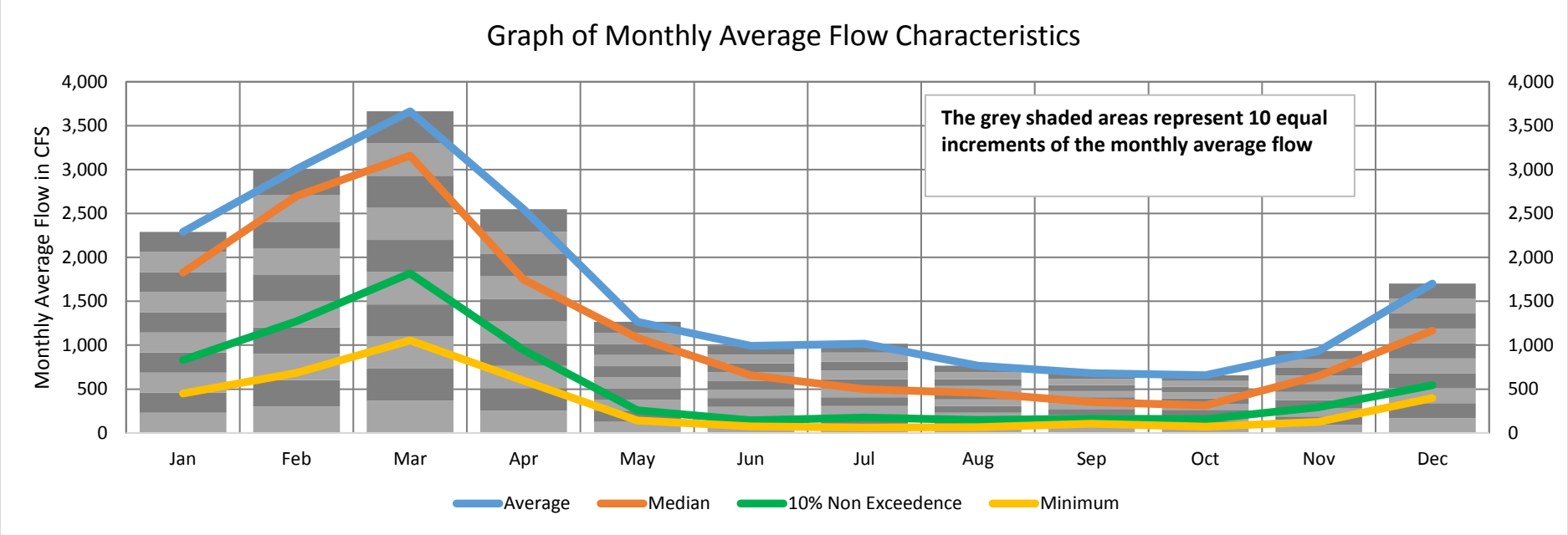
	Flows in CFS
Minimum	62.0
5th %	162
10th %	221
15th %	283
20th %	327
30th %	516
40th %	709
Median	1,040
60th %	1,526
70th %	1,900
80th %	2,680
90th %	3,935
Maximum	11,425
Average	1,627



Q10/Q50	0.21
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.05
Q5/DA	0.13
Q10/DA	0.17
Q15/DA	0.22
Q20/DA	0.26
Q30/DA	0.41
Q40/DA	0.56
Q50/DA	0.82
Q60/DA	1.20
Q70/DA	1.49
Q80/DA	2.11
Q90/DA	3.09
Qmax/DA	8.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

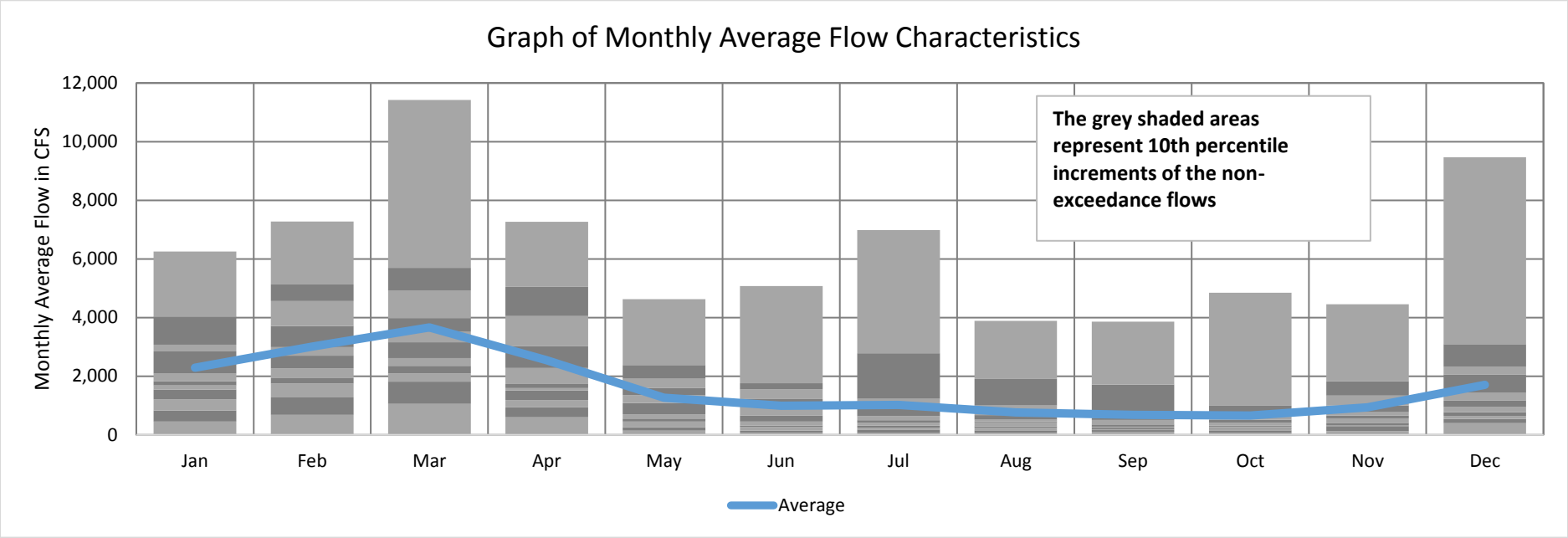
Site #: 02372422 Name: Conecuh River below Point A Dam At River Falls, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,291	3,007	3,663	2,548	1,268	991	1,017	766	681	658	934	1,700
100%	6,251	7,278	11,425	7,268	4,627	5,070	6,980	3,884	3,858	4,841	4,452	9,464
98%	6,171	5,921	10,277	6,727	3,766	4,189	4,869	3,275	3,427	4,003	3,008	5,894
95%	5,694	5,350	8,104	6,511	2,984	2,538	3,649	2,736	2,371	3,421	2,545	4,247
90%	4,033	5,126	5,698	5,045	2,382	1,763	2,782	1,906	1,717	995	1,819	3,092
75%	2,924	4,051	4,268	3,325	1,783	1,254	1,013	854	630	601	1,175	2,125
50%	1,826	2,699	3,158	1,747	1,085	656	498	456	353	314	651	1,165
25%	1,439	1,785	2,267	1,301	512	300	253	270	207	204	346	683
10%	831	1,271	1,818	944	259	143	177	149	164	156	295	545
5%	810	983	1,322	771	210	90	155	94	128	131	222	500
2%	691	836	1,076	658	160	77	90	73	121	105	163	428
0%	451	684	1,054	597	143	75	62	67	107	73	126	398

Site #: 02372422 Name: Conecuh River below Point A Dam At River Falls, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,273 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,291	3,007	3,663	2,548	1,268	991	1,017	766	681	658	934	1,700
100%	6,251	7,278	11,425	7,268	4,627	5,070	6,980	3,884	3,858	4,841	4,452	9,464
98%	6,171	5,921	10,277	6,727	3,766	4,189	4,869	3,275	3,427	4,003	3,008	5,894
95%	5,694	5,350	8,104	6,511	2,984	2,538	3,649	2,736	2,371	3,421	2,545	4,247
90%	4,033	5,126	5,698	5,045	2,382	1,763	2,782	1,906	1,717	995	1,819	3,092
75%	2,924	4,051	4,268	3,325	1,783	1,254	1,013	854	630	601	1,175	2,125
50%	1,826	2,699	3,158	1,747	1,085	656	498	456	353	314	651	1,165
25%	1,439	1,785	2,267	1,301	512	300	253	270	207	204	346	683
10%	831	1,271	1,818	944	259	143	177	149	164	156	295	545
5%	810	983	1,322	771	210	90	155	94	128	131	222	500
2%	691	836	1,076	658	160	77	90	73	121	105	163	428
0%	451	684	1,054	597	143	75	62	67	107	73	126	398

Monthly Flows (in CFS) for
02373000 - Sepulga River near McKenzie, Ala.

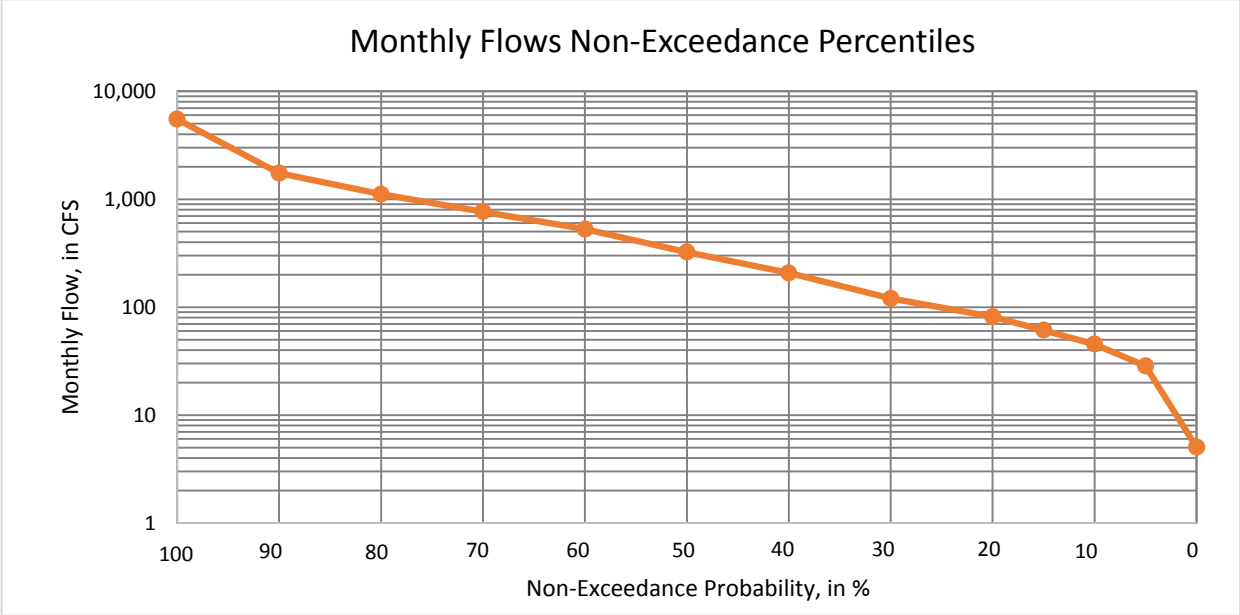
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,643	3,060	1,811	2,153	502	344	369	2,072	1,159	1,679	621	960	1,354
1976	2,442	1,289	1,751	1,339	1,803	1,312	221	97	91	53	284	1,074	979
1977	1,258	692	2,847	1,100	113	58	112	490	197	99	262	264	626
1978	2,645	837	985	967	2,271	1,242	251	217	48	37	66	225	818
1979	1,360	2,580	2,562	1,879	365	229	519	210	191	103	239	513	885
1980	941	776	2,374	3,871	1,625	808	164	75	76	109	107	127	919
1981	108	1,484	563	522	176	110	30	61	85	17	31	172	271
1982	956	2,461	805	789	616	88	193	289	48	41	114	531	565
1983	978	2,088	2,842	2,753	700	738	328	70	100	69	319	837	976
1984	1,344	953	1,725	1,022	687	143	128	745	76	114	177	435	629
1985	365	1,869	1,163	288	172	52	134	109	129	104	167	665	426
1986	532	1,193	1,684	226	140	102	42	34	147	23	201	431	392
1987	747	1,480	1,118	509	211	223	166	76	35	12	74	249	402
1988	1,004	909	1,254	383	78	29	116	40	326	185	300	194	399
1989	377	307	945	2,306	366	1,364	953	110	54	118	376	1,145	701
1990	2,669	2,835	3,850	628	433	135	100	41	18	17	20	61	892
1991	386	790	1,481	539	1,667	468	330	62	42	24	53	105	496
1992	1,540	2,553	682	304	69	703	183	242	105	53	2,101	2,004	865
1993	1,739	1,103	1,521	1,251	204	88	142	248	69	47	314	381	590
1994	879	1,271	1,080	914	265	224	2,674	338	115	170	112	291	693
1995	632	1,275	1,586	717	187	197	52	143	21	1,076	577	1,347	649
1996	1,452	1,509	1,890	1,905	481	281	210	114	174	122	104	293	706
1997	1,023	1,731	1,080	568	865	724	154	82	22	41	321	1,268	650
1998	2,364	1,667	3,317	478	154	46	47	36	1,142	2,449	112	127	995
1999	398	549	1,467	231	430	838	1,097	99	34	72	61	146	453
2000	196	184	379	159	31	19	13	16	24	5	67	295	116
2001	600	488	5,505	1,261	547	1,960	498	525	296	332	579	674	1,111
2002	502	658	1,545	570	123	75	116	82	117	554	753	975	506
2003	664	907	1,808	1,654	606	1,404	1,907	599	220	76	189	519	879
2004	662	1,656	511	192	290	292	257	93	981	422	1,148	925	610
2005	699	1,065	923	3,196	351	467	999	1,109	342	130	104	185	793
2006	570	863	500	113	229	43	26	33	25	46	301	167	239
2007	763	384	586	525	80	36	36	16	29	80	61	198	232
2008	1,070	1,317	715	589	109	27	82	557	112	34	90	658	442
2009	757	332	2,337	2,116	1,151	445	70	186	958	246	1,241	5,280	1,268
2010	2,608	2,390	1,909	296	568	126	51	49	25	19	44	72	672
2011	116	576	885	351	47	14	75	37	28	14	21	108	187
2012	203	770	302	114	197	277	79	214	649	107	56	312	269
2013	478	3,139	972	1,061	311	250	745	690	85	35	47	855	706
2014	868	1,912	1,487	3,707	1,966	302	85	57	46	47	67	442	906

Non-Exceedance Percentiles

02373000 - Sepulga River near McKenzie, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	108	184	302	113	31	14	13	16	18	5	20	61	116
5th %	192	330	494	156	68	27	30	32	22	14	31	103	230
10th %	348	477	558	223	79	35	41	36	25	17	47	125	266
15th %	385	571	668	279	113	46	50	40	27	23	56	143	374
20th %	462	686	787	302	137	57	66	47	33	32	61	171	401
30th %	591	823	964	499	184	98	84	67	47	41	72	217	483
40th %	685	935	1,103	556	222	140	116	82	73	50	106	292	602
Median	815	1,232	1,474	672	331	226	148	104	88	74	140	406	650
60th %	965	1,382	1,561	989	431	285	187	160	113	103	216	515	703
70th %	1,126	1,659	1,768	1,254	553	451	253	225	155	115	300	668	832
80th %	1,470	1,947	1,995	1,884	689	727	395	368	235	173	332	932	895
90th %	2,372	2,556	2,843	2,351	1,629	1,249	958	608	680	435	635	1,157	981
Maximum	2,669	3,139	5,505	3,871	2,271	1,960	2,674	2,072	1,159	2,449	2,101	5,280	1,354
Average	1,013	1,348	1,569	1,089	530	407	344	259	211	224	297	638	657

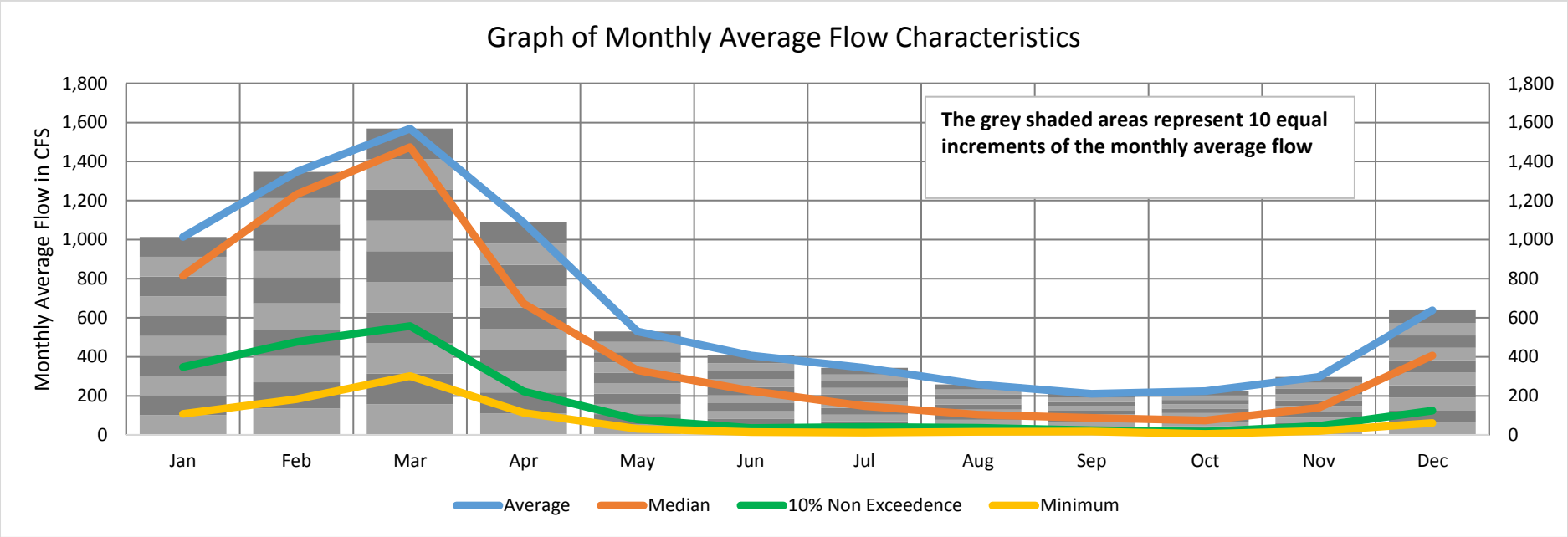
	Flows in CFS
Minimum	5.0
5th %	28
10th %	45
15th %	61
20th %	82
30th %	120
40th %	207
Median	323
60th %	528
70th %	765
80th %	1,111
90th %	1,740
Maximum	5,505
Average	661



Q10/Q50	0.14
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.01
Q5/DA	0.06
Q10/DA	0.10
Q15/DA	0.13
Q20/DA	0.17
Q30/DA	0.26
Q40/DA	0.44
Q50/DA	0.69
Q60/DA	1.12
Q70/DA	1.63
Q80/DA	2.36
Q90/DA	3.70
Qmax/DA	11.71

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

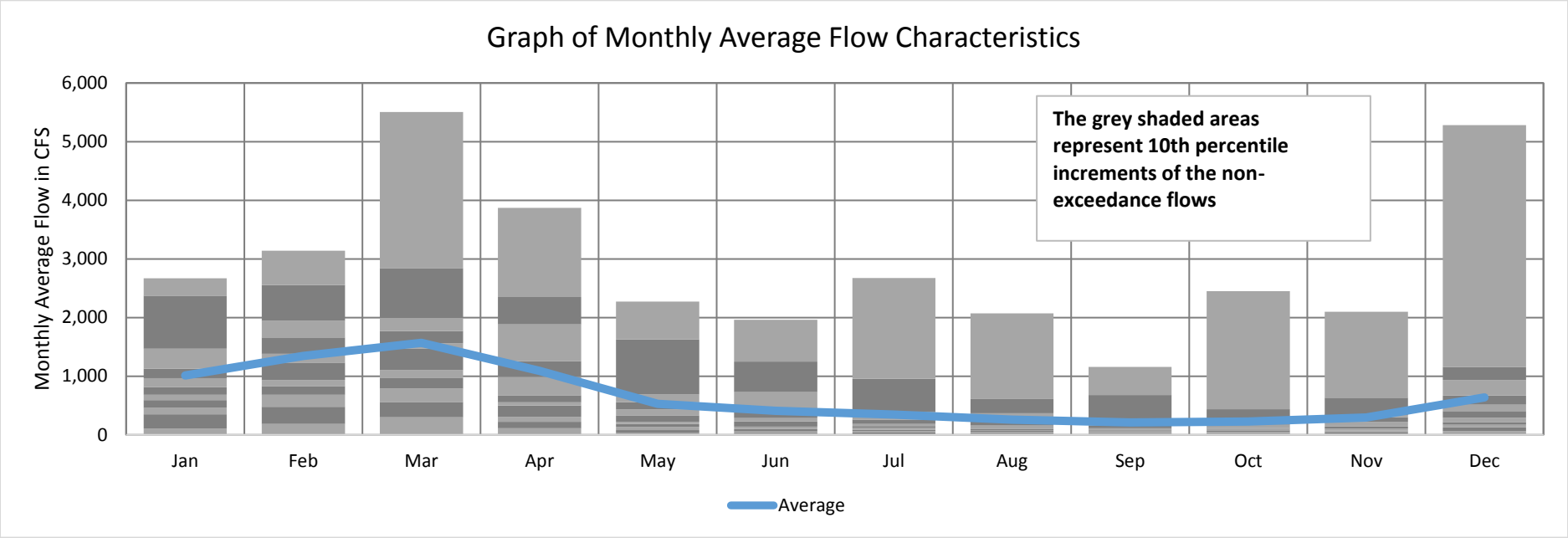
Site #: 02373000 Name: Sepulga River near McKenzie, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,013	1,348	1,569	1,089	530	407	344	259	211	224	297	638
100%	2,669	3,139	5,505	3,871	2,271	1,960	2,674	2,072	1,159	2,449	2,101	5,280
98%	2,650	3,077	4,214	3,743	2,033	1,526	2,076	1,321	1,146	1,848	1,430	2,725
95%	2,610	2,846	3,344	3,222	1,811	1,366	1,138	763	989	1,106	1,153	1,380
90%	2,372	2,556	2,843	2,351	1,629	1,249	958	608	680	435	635	1,157
75%	1,348	1,766	1,831	1,418	609	527	329	258	192	124	315	841
50%	815	1,232	1,474	672	331	226	148	104	88	74	140	406
25%	524	774	913	375	168	84	78	60	40	36	67	191
10%	348	477	558	223	79	35	41	36	25	17	47	125
5%	192	330	494	156	68	27	30	32	22	14	31	103
2%	115	280	362	114	43	18	23	16	20	10	21	70
0%	108	184	302	113	31	14	13	16	18	5.0	20	61

Site #: 02373000 Name: Sepulga River near McKenzie, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 470 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,013	1,348	1,569	1,089	530	407	344	259	211	224	297	638
100%	2,669	3,139	5,505	3,871	2,271	1,960	2,674	2,072	1,159	2,449	2,101	5,280
98%	2,650	3,077	4,214	3,743	2,033	1,526	2,076	1,321	1,146	1,848	1,430	2,725
95%	2,610	2,846	3,344	3,222	1,811	1,366	1,138	763	989	1,106	1,153	1,380
90%	2,372	2,556	2,843	2,351	1,629	1,249	958	608	680	435	635	1,157
75%	1,348	1,766	1,831	1,418	609	527	329	258	192	124	315	841
50%	815	1,232	1,474	672	331	226	148	104	88	74	140	406
25%	524	774	913	375	168	84	78	60	40	36	67	191
10%	348	477	558	223	79	35	41	36	25	17	47	125
5%	192	330	494	156	68	27	30	32	22	14	31	103
2%	115	280	362	114	43	18	23	16	20	10	21	70
0%	108	184	302	113	31	14	13	16	18	5.0	20	61

Monthly Flows (in CFS) for
02373500 - Pigeon Creek near Thad, Ala.

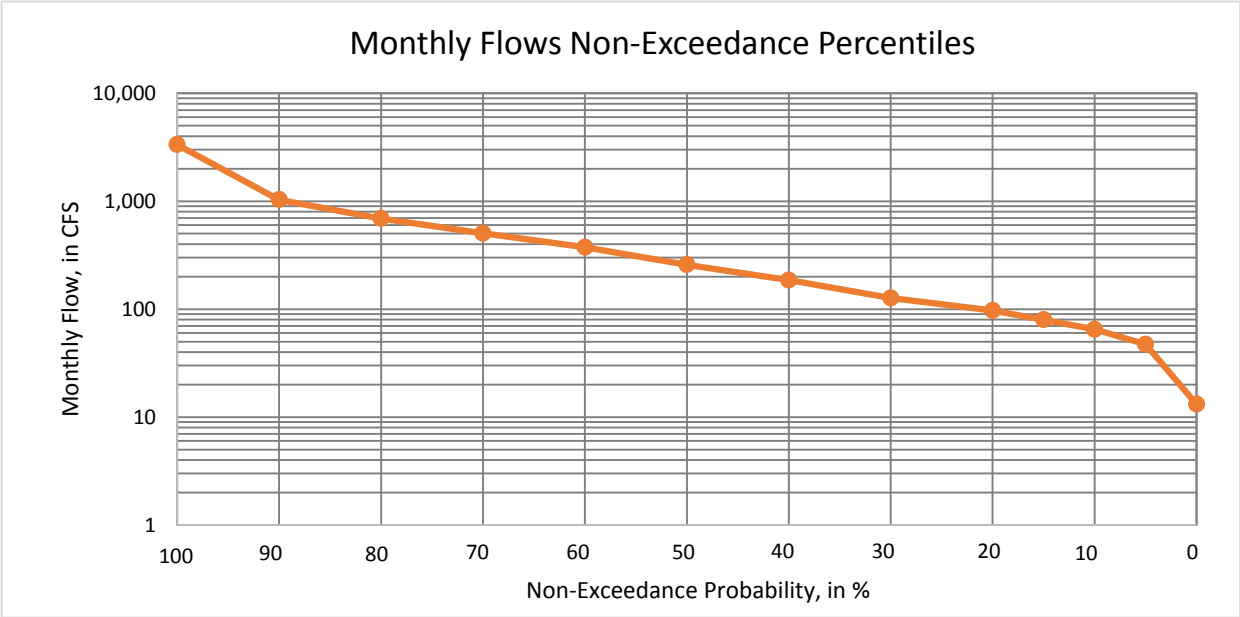
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	980	1,785	1,072	1,262	360	270	284	1,217	717	999	426	610	826
1976	1,426	787	1,039	814	1,068	800	194	109	104	72	234	671	610
1977	770	465	1,660	685	122	77	120	353	180	110	220	221	416
1978	1,542	543	623	613	1,329	762	214	192	67	56	84	197	520
1979	826	1,505	1,495	1,110	282	200	369	187	175	114	206	366	563
1980	599	510	1,387	2,276	970	528	157	91	92	118	117	131	580
1981	118	893	394	371	165	119	49	79	99	32	50	163	206
1982	608	1,437	526	517	423	102	176	237	67	61	122	376	381
1983	619	1,226	1,657	1,605	469	489	260	87	111	87	255	543	612
1984	817	606	1,025	643	462	143	132	493	93	122	166	322	419
1985	281	1,104	719	236	163	71	136	119	133	114	159	450	302
1986	376	735	1,002	198	141	113	62	54	145	41	182	320	278
1987	495	891	695	363	188	196	159	92	54	26	91	212	285
1988	633	582	768	292	94	48	123	60	259	172	243	177	286
1989	289	248	602	1,349	282	828	606	119	73	125	288	709	460
1990	1,556	1,653	2,263	429	321	138	111	61	34	32	37	79	555
1991	294	518	891	381	993	341	261	80	62	41	73	115	337
1992	923	1,489	459	246	87	471	170	208	115	73	1,233	1,179	547
1993	1,032	687	913	767	184	102	142	212	87	66	252	291	393
1994	566	777	674	585	222	196	1,559	266	123	161	121	238	457
1995	432	780	948	478	173	179	72	143	38	672	401	818	427
1996	875	906	1,116	1,124	348	232	188	122	164	128	114	239	460
1997	644	1,028	674	396	559	482	151	97	39	60	256	776	427
1998	1,381	993	1,938	346	151	66	66	56	708	1,430	121	131	616
1999	301	386	884	201	319	544	683	110	53	89	80	145	317
2000	179	171	290	154	50	36	26	31	42	13	85	241	109
2001	414	352	3,336	772	385	1,154	358	373	241	262	402	455	712
2002	360	446	926	397	129	91	124	97	124	389	498	618	350
2003	450	581	1,070	986	418	849	1,125	414	194	92	174	369	560
2004	448	987	365	176	237	239	217	106	621	314	711	591	413
2005	469	666	590	1,866	274	340	631	690	268	134	114	172	515
2006	398	557	359	121	200	63	45	52	43	65	244	159	190
2007	503	293	406	372	95	56	55	31	47	95	79	180	184
2008	669	802	477	408	119	46	98	390	121	53	104	446	309
2009	500	262	1,366	1,242	713	328	87	172	608	210	761	3,184	791
2010	1,521	1,396	1,126	241	397	131	70	69	43	36	63	89	427
2011	124	401	569	274	66	29	91	57	46	29	39	118	152
2012	183	507	244	122	179	229	95	190	441	117	75	250	217
2013	346	1,832	616	664	250	213	493	463	99	54	67	553	462
2014	560	1,128	894	2,175	1,158	245	100	76	65	66	85	326	568

Non-Exceedance Percentiles

02373500 - Pigeon Creek near Thad, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	118	171	244	121	50	29	26	31	34	13	37	79	109
5th %	176	261	355	152	86	45	49	51	39	29	50	114	182
10th %	272	346	391	196	95	55	61	56	43	32	66	130	204
15th %	293	398	451	231	121	65	70	59	46	40	75	143	269
20th %	337	461	516	245	138	76	84	67	52	51	79	162	286
30th %	409	536	612	358	171	110	99	85	67	60	89	192	331
40th %	461	596	687	390	195	141	124	97	90	70	116	239	405
Median	532	756	887	454	262	198	146	115	102	91	140	305	427
60th %	612	838	935	625	320	234	173	154	121	114	191	367	460
70th %	699	989	1,048	768	388	331	215	197	151	123	243	451	528
80th %	885	1,147	1,174	1,112	463	484	299	283	204	163	262	595	564
90th %	1,386	1,491	1,657	1,374	972	765	608	419	458	322	433	716	613
Maximum	1,556	1,832	3,336	2,276	1,329	1,154	1,559	1,217	717	1,430	1,233	3,184	826
Average	638	823	951	681	363	289	252	201	170	173	226	431	431

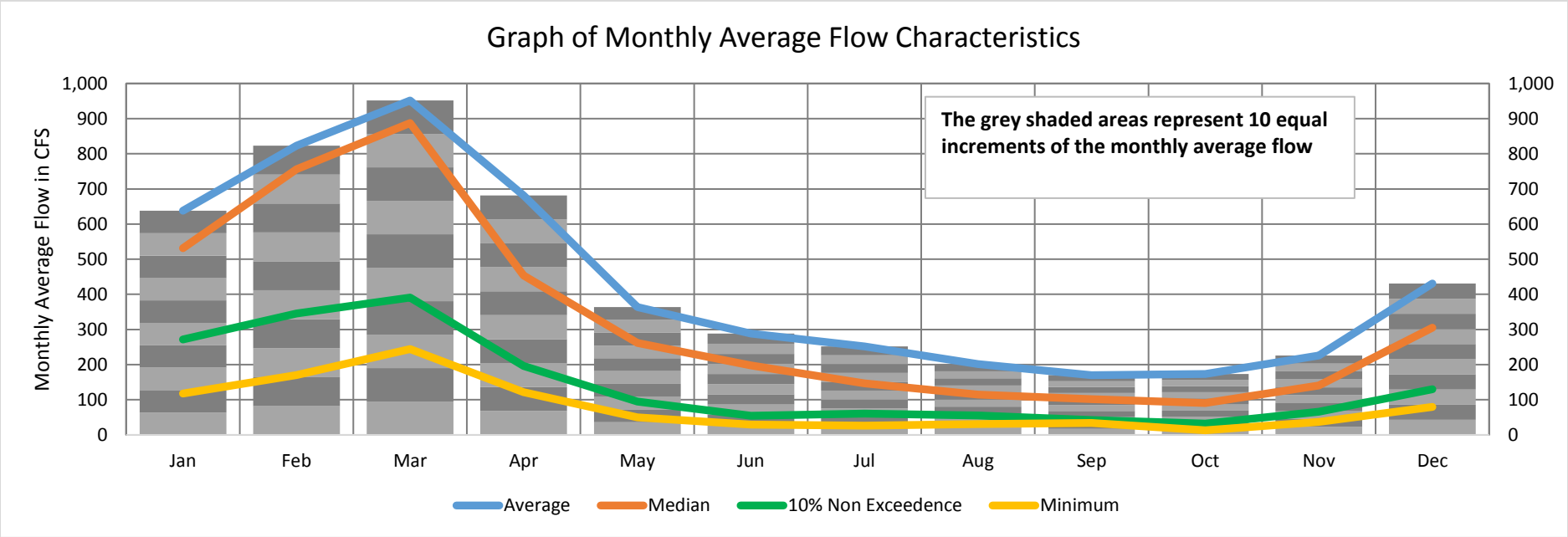
	Flows in CFS
Minimum	13.2
5th %	47
10th %	65
15th %	80
20th %	97
30th %	127
40th %	186
Median	257
60th %	374
70th %	504
80th %	691
90th %	1,033
Maximum	3,336
Average	433



Q10/Q50	0.25
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.04
Q5/DA	0.15
Q10/DA	0.21
Q15/DA	0.26
Q20/DA	0.32
Q30/DA	0.41
Q40/DA	0.61
Q50/DA	0.84
Q60/DA	1.22
Q70/DA	1.64
Q80/DA	2.25
Q90/DA	3.36
Qmax/DA	10.87

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

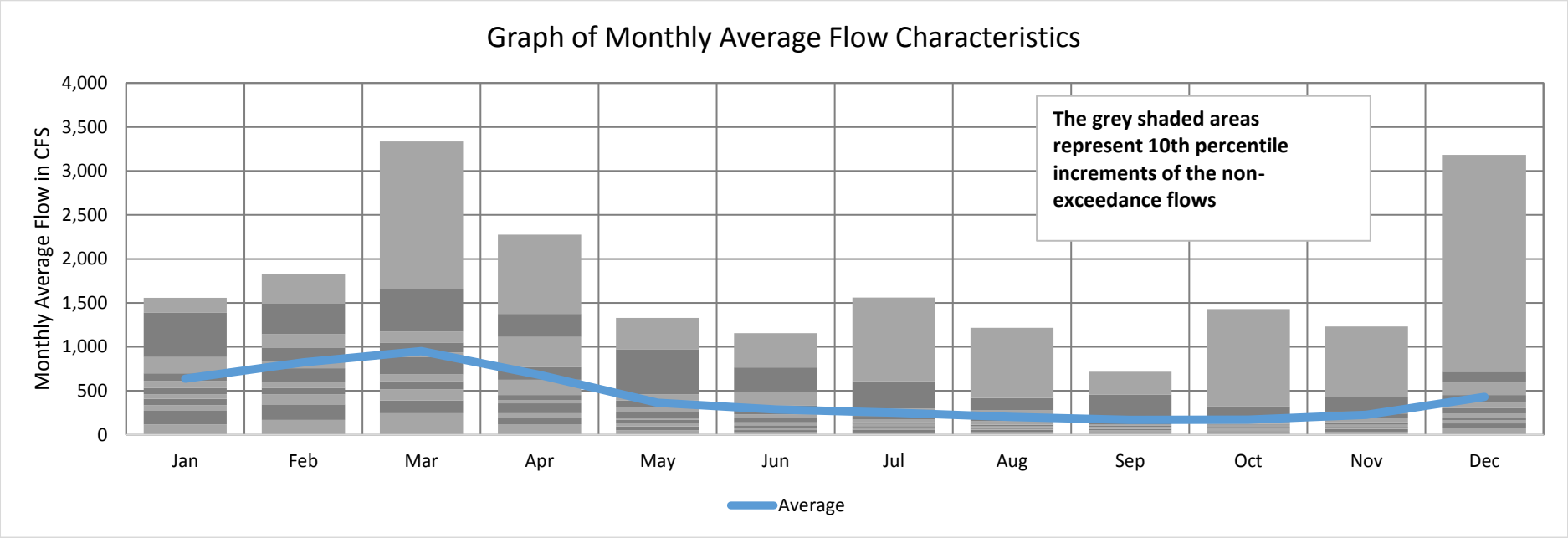
Site #: 02373500 Name: Pigeon Creek near Thad, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	638	823	951	681	363	289	252	201	170	173	226	431
100%	1,556	1,832	3,336	2,276	1,329	1,154	1,559	1,217	717	1,430	1,233	3,184
98%	1,545	1,795	2,499	2,197	1,195	917	1,221	806	710	1,094	865	1,620
95%	1,522	1,659	1,954	1,881	1,072	829	706	503	625	689	714	837
90%	1,386	1,491	1,657	1,374	972	765	608	419	458	322	433	716
75%	819	1,047	1,083	857	419	373	260	218	176	129	253	546
50%	532	756	887	454	262	198	146	115	102	91	140	305
25%	372	509	585	288	160	99	94	78	60	56	85	176
10%	272	346	391	196	95	55	61	56	43	32	66	130
5%	176	261	355	152	86	45	49	51	39	29	50	114
2%	123	231	280	122	62	34	41	31	37	23	38	87
0%	118	171	244	121	50	29	26	31	34	13	37	79

Site #: 02373500 Name: Pigeon Creek near Thad, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 307 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	638	823	951	681	363	289	252	201	170	173	226	431
100%	1,556	1,832	3,336	2,276	1,329	1,154	1,559	1,217	717	1,430	1,233	3,184
98%	1,545	1,795	2,499	2,197	1,195	917	1,221	806	710	1,094	865	1,620
95%	1,522	1,659	1,954	1,881	1,072	829	706	503	625	689	714	837
90%	1,386	1,491	1,657	1,374	972	765	608	419	458	322	433	716
75%	819	1,047	1,083	857	419	373	260	218	176	129	253	546
50%	532	756	887	454	262	198	146	115	102	91	140	305
25%	372	509	585	288	160	99	94	78	60	56	85	176
10%	272	346	391	196	95	55	61	56	43	32	66	130
5%	176	261	355	152	86	45	49	51	39	29	50	114
2%	123	231	280	122	62	34	41	31	37	23	38	87
0%	118	171	244	121	50	29	26	31	34	13	37	79

Monthly Flows (in CFS) for

02373800 - Sepulga river at Brooklyn, Ala. (represents Streamflow for 03140303)

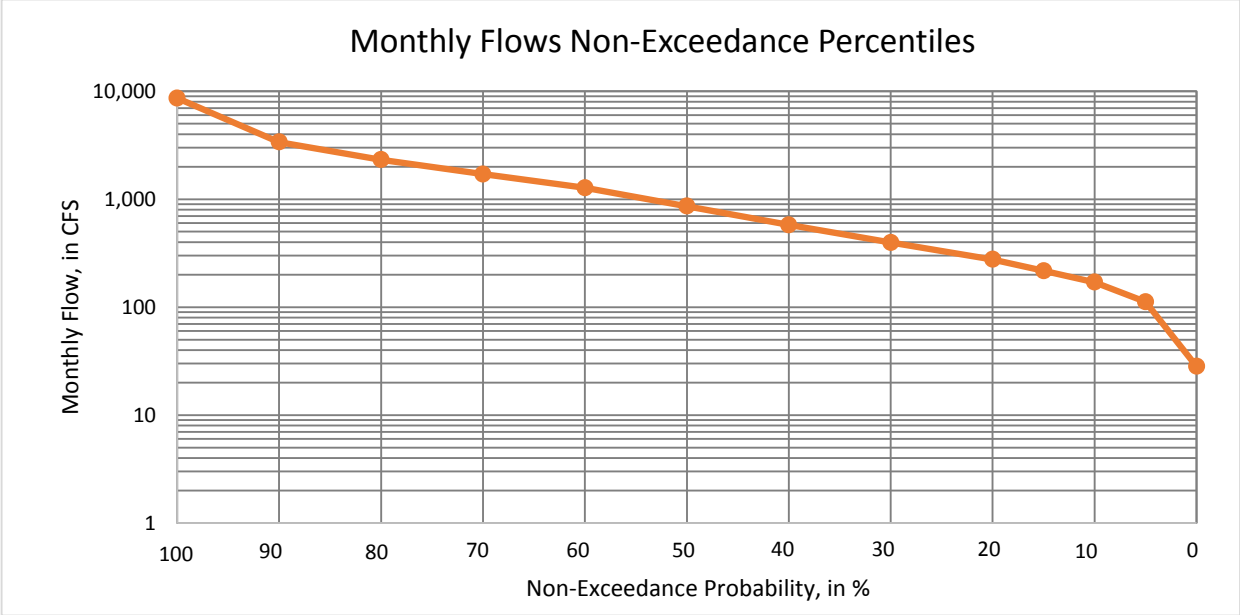
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,213	5,344	3,479	4,008	1,219	895	1,369	4,805	2,784	3,264	1,493	1,735	2,785
1976	3,885	2,133	2,717	2,768	3,841	2,400	628	419	326	275	784	2,230	1,868
1977	2,451	1,355	5,068	2,486	346	265	360	1,116	654	355	726	651	1,322
1978	4,388	2,107	2,261	1,866	4,666	2,018	539	496	144	111	179	601	1,617
1979	2,464	4,786	4,620	4,077	952	596	955	492	415	287	536	1,013	1,745
1980	1,850	1,573	4,711	7,159	3,211	1,433	452	230	321	415	450	470	1,853
1981	389	3,596	1,528	1,431	531	276	91	212	217	85	144	560	734
1982	2,109	4,738	1,768	1,613	1,272	292	686	878	212	193	344	1,180	1,253
1983	1,940	4,138	5,244	5,407	1,703	1,709	931	283	431	241	841	1,850	2,042
1984	2,726	2,057	3,343	2,179	1,573	436	397	1,681	261	362	518	1,082	1,385
1985	937	3,570	2,422	772	508	190	412	350	400	335	494	1,533	978
1986	1,277	2,473	3,278	634	428	331	160	135	445	99	575	1,075	901
1987	1,686	2,950	2,345	1,231	598	626	492	258	138	57	255	685	931
1988	2,147	1,979	2,576	977	264	118	366	154	855	539	799	558	939
1989	964	814	2,044	4,240	940	2,759	2,058	352	196	371	961	2,391	1,507
1990	4,779	5,021	6,449	1,462	1,079	417	325	156	79	74	87	216	1,664
1991	983	1,765	2,951	1,291	3,251	1,150	864	220	160	99	195	339	1,105
1992	3,047	4,608	1,565	808	240	1,604	533	671	338	194	3,929	3,780	1,754
1993	3,366	2,319	3,016	2,571	582	292	433	684	241	174	830	971	1,285
1994	1,926	2,604	2,279	1,988	722	628	4,786	880	364	502	358	780	1,483
1995	1,471	2,611	3,121	1,630	543	567	191	435	89	2,272	1,365	2,731	1,415
1996	2,904	2,997	3,603	3,626	1,176	757	598	362	511	381	335	783	1,493
1997	2,180	3,353	2,279	1,347	1,901	1,643	463	276	94	155	844	2,599	1,417
1998	4,327	3,251	5,709	1,169	464	173	175	142	2,386	4,454	357	394	1,916
1999	1,006	1,309	2,928	645	1,072	1,852	2,309	321	133	250	217	443	1,042
2000	564	535	967	474	123	84	59	71	101	28	235	789	336
2001	1,408	1,189	8,641	2,587	1,306	3,712	1,211	1,264	790	867	1,368	1,550	2,166
2002	1,218	1,520	3,055	1,351	386	256	368	276	369	1,321	1,697	2,097	1,159
2003	1,532	1,976	3,475	3,230	1,421	2,825	3,629	1,407	621	259	548	1,251	1,847
2004	1,526	3,234	1,236	555	777	782	704	306	2,107	1,055	2,396	2,009	1,375
2005	1,597	2,253	2,004	5,538	909	1,148	2,138	2,329	889	404	335	539	1,665
2006	1,351	1,897	1,214	359	641	164	109	132	104	171	800	494	612
2007	1,715	979	1,382	1,262	270	142	140	71	116	270	216	568	593
2008	2,262	2,681	1,627	1,388	350	112	277	1,326	357	134	298	1,519	1,019
2009	1,705	868	4,287	3,952	2,401	1,103	243	540	2,066	678	2,554	8,351	2,408
2010	4,689	4,366	3,633	789	1,348	392	187	182	106	85	165	249	1,335
2011	368	1,362	1,937	909	174	67	256	144	114	66	92	346	481
2012	580	1,728	802	362	567	748	269	607	1,503	344	202	824	703
2013	1,169	5,457	2,091	2,246	824	687	1,682	1,579	284	137	175	1,882	1,493
2014	1,906	3,637	2,961	6,253	3,721	804	284	204	171	174	235	1,098	1,771

Non-Exceedance Percentiles

02373800 - Sepulga river at Brooklyn, Ala. (represents Streamflow for 03140303)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	368	535	802	359	123	67	59	71	79	28	87	216	336
5th %	556	865	1,201	469	237	111	108	129	94	66	142	334	587
10th %	901	1,168	1,367	626	269	139	158	141	103	84	174	389	694
15th %	980	1,348	1,560	753	349	172	185	153	113	97	192	466	876
20th %	1,136	1,488	1,740	804	420	243	232	177	130	109	213	530	937
30th %	1,391	1,858	2,077	1,212	539	292	282	227	167	166	249	591	1,086
40th %	1,571	2,087	2,319	1,349	624	428	367	281	232	194	340	782	1,307
Median	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992	1,400
60th %	2,008	2,788	3,032	2,064	1,075	767	535	457	366	338	559	1,131	1,493
70th %	2,319	3,282	3,383	2,576	1,282	1,116	691	626	435	374	799	1,538	1,664
80th %	2,933	3,737	3,763	3,691	1,599	1,612	1,006	927	681	509	868	1,907	1,786
90th %	3,929	4,743	5,086	4,357	3,215	2,056	2,066	1,424	1,560	1,082	1,513	2,412	1,928
Maximum	4,779	5,457	8,641	7,159	4,666	3,712	4,786	4,805	2,784	4,454	3,929	8,351	2,785
Average	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355	1,385

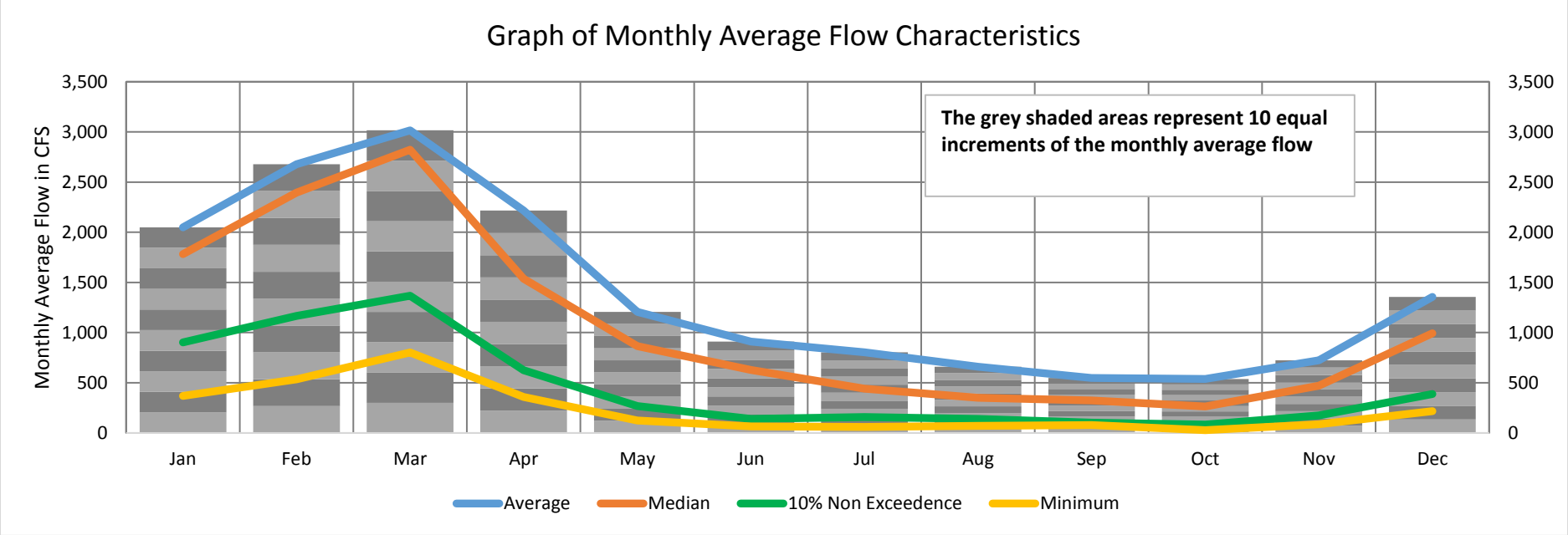
	Flows in CFS
Minimum	28.2
5th %	112
10th %	170
15th %	217
20th %	276
30th %	396
40th %	578
Median	860
60th %	1,274
70th %	1,704
80th %	2,321
90th %	3,377
Maximum	8,641
Average	1,392



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.03
Q5/DA	0.11
Q10/DA	0.17
Q15/DA	0.21
Q20/DA	0.27
Q30/DA	0.39
Q40/DA	0.57
Q50/DA	0.85
Q60/DA	1.25
Q70/DA	1.68
Q80/DA	2.28
Q90/DA	3.32
Qmax/DA	8.50

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

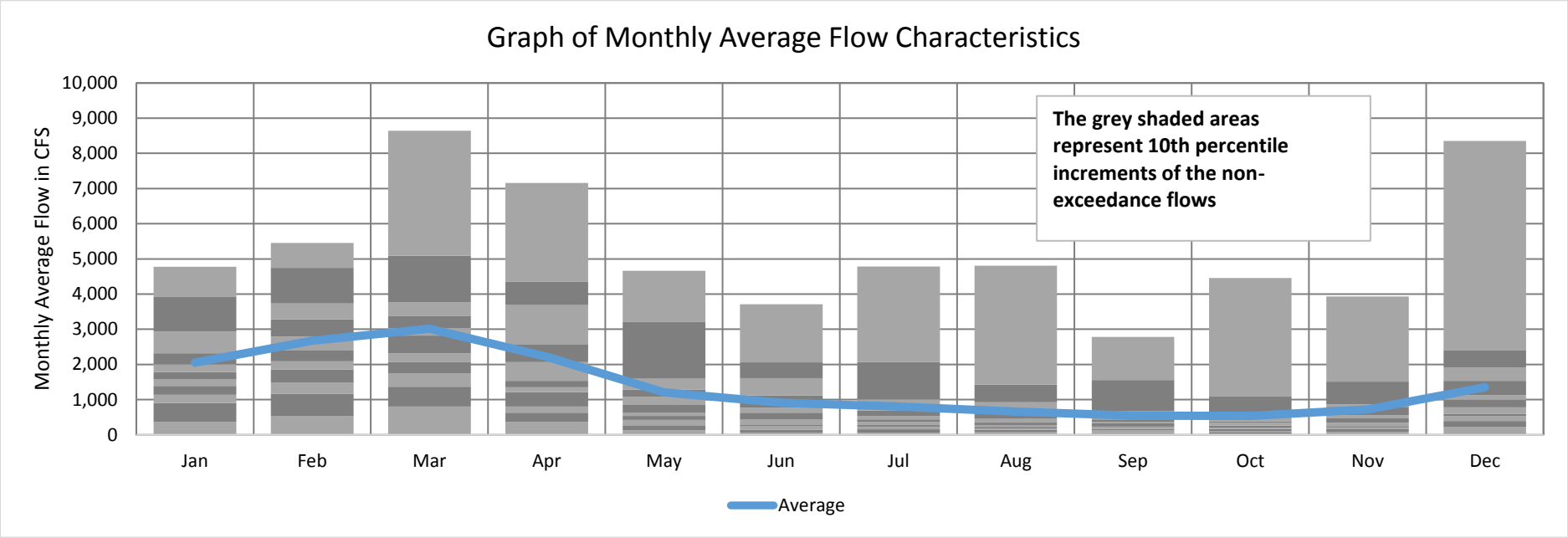
Site #: 02373800 Name: Sepulga river at Brooklyn, Ala. (represents Streamflow for 03140303)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355
100%	4,779	5,457	8,641	7,159	4,666	3,712	4,786	4,805	2,784	4,454	3,929	8,351
98%	4,709	5,369	6,931	6,452	4,023	3,020	3,884	2,874	2,473	3,526	2,856	4,786
95%	4,403	5,037	5,746	5,574	3,727	2,762	2,375	1,714	2,121	2,322	2,404	2,783
90%	3,929	4,743	5,086	4,357	3,215	2,056	2,066	1,424	1,560	1,082	1,513	2,412
75%	2,529	3,577	3,510	2,884	1,366	1,221	881	733	539	407	832	1,764
50%	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992
25%	1,262	1,689	1,987	960	497	273	266	210	142	137	230	560
10%	901	1,168	1,367	626	269	139	158	141	103	84	174	389
5%	556	865	1,201	469	237	111	108	129	94	66	142	334
2%	384	753	931	361	163	80	84	71	87	51	91	242
0%	368	535	802	359	123	67	59	71	79	28	87	216

Site #: 02373800 Name: Sepulga river at Brooklyn, Ala. (represents Streamflow for 03140303)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,017 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,050	2,678	3,015	2,216	1,207	911	803	661	547	538	723	1,355
100%	4,779	5,457	8,641	7,159	4,666	3,712	4,786	4,805	2,784	4,454	3,929	8,351
98%	4,709	5,369	6,931	6,452	4,023	3,020	3,884	2,874	2,473	3,526	2,856	4,786
95%	4,403	5,037	5,746	5,574	3,727	2,762	2,375	1,714	2,121	2,322	2,404	2,783
90%	3,929	4,743	5,086	4,357	3,215	2,056	2,066	1,424	1,560	1,082	1,513	2,412
75%	2,529	3,577	3,510	2,884	1,366	1,221	881	733	539	407	832	1,764
50%	1,782	2,396	2,823	1,537	866	627	442	351	324	264	472	992
25%	1,262	1,689	1,987	960	497	273	266	210	142	137	230	560
10%	901	1,168	1,367	626	269	139	158	141	103	84	174	389
5%	556	865	1,201	469	237	111	108	129	94	66	142	334
2%	384	753	931	361	163	80	84	71	87	51	91	242
0%	368	535	802	359	123	67	59	71	79	28	87	216

Monthly Flows (in CFS) for

02374000 - Conecuh river near Brooklyn, Ala.

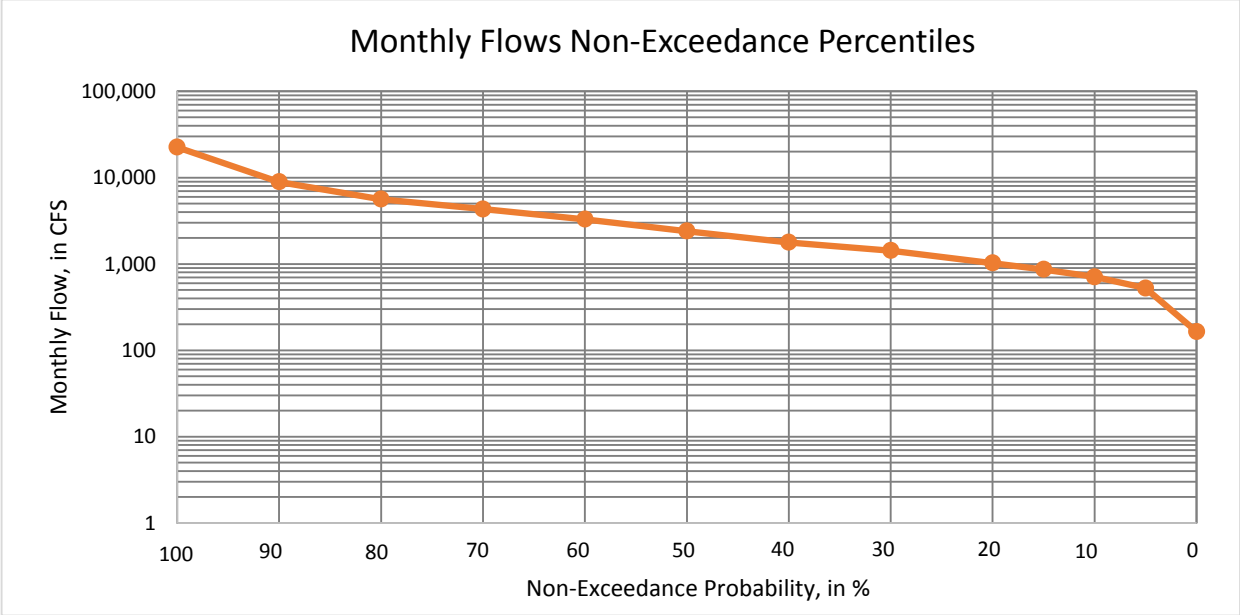
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	6,372	11,570	11,514	18,242	5,384	4,486	3,572	15,510	7,471	10,910	5,734	5,067	8,795
1976	9,836	6,444	5,399	8,964	9,918	6,602	1,883	1,351	1,171	1,020	1,785	5,456	4,978
1977	5,856	3,048	11,264	7,471	1,239	839	932	3,457	1,951	1,136	2,039	2,086	3,450
1978	9,481	9,720	6,887	4,621	12,621	8,417	2,024	2,305	931	786	778	1,807	5,008
1979	5,191	12,059	14,917	10,220	3,238	1,681	3,009	1,880	1,726	1,245	1,613	2,877	4,926
1980	4,456	3,489	12,059	21,373	9,467	4,296	1,550	904	969	1,338	1,683	1,463	5,248
1981	1,205	10,633	3,564	2,931	1,533	1,046	629	691	709	446	647	1,569	2,072
1982	5,810	12,967	4,712	3,632	2,728	969	1,755	2,688	898	749	1,016	2,891	3,342
1983	5,044	12,059	13,991	16,589	4,593	3,757	3,368	1,511	1,690	956	1,812	5,166	5,826
1984	6,510	3,945	8,504	4,717	5,582	1,440	1,719	4,770	904	829	1,074	2,118	3,522
1985	2,097	8,890	6,563	2,052	1,829	1,017	2,116	1,520	1,225	1,442	2,107	5,143	2,967
1986	4,719	5,052	10,434	2,276	1,274	1,025	654	599	928	592	1,470	3,218	2,681
1987	4,120	7,092	6,781	3,740	2,307	2,623	1,623	1,671	652	455	1,027	1,436	2,767
1988	5,141	4,992	7,019	3,110	865	483	1,128	822	4,019	1,571	1,404	1,259	2,636
1989	1,574	1,418	3,485	7,866	3,033	9,454	6,372	1,542	881	1,543	3,764	4,290	3,769
1990	13,159	11,160	20,216	5,774	4,757	2,048	1,457	824	550	612	659	1,091	5,175
1991	3,145	5,361	7,345	2,884	7,378	3,371	3,141	1,456	1,184	644	1,233	1,550	3,218
1992	6,999	9,925	4,906	2,667	1,096	2,479	1,633	1,597	1,020	756	5,597	10,007	4,021
1993	6,675	5,111	6,668	5,962	2,154	966	1,492	1,252	1,186	860	2,415	2,327	3,077
1994	3,495	4,929	4,354	4,074	1,753	3,459	13,563	4,494	1,734	2,645	1,680	2,510	4,065
1995	3,900	9,863	8,937	5,106	3,164	1,872	1,273	2,822	733	9,025	4,885	6,853	4,847
1996	7,092	10,558	8,498	12,551	4,142	2,730	1,941	1,767	2,596	1,325	1,207	1,924	4,645
1997	3,895	6,602	5,215	3,085	3,819	3,347	2,187	1,542	657	827	2,817	7,551	3,447
1998	12,544	9,270	19,914	5,980	2,289	1,123	1,514	1,230	4,679	15,090	2,518	2,197	6,539
1999	3,520	3,523	7,086	2,386	2,271	2,555	5,637	1,424	853	1,139	921	1,399	2,731
2000	1,661	1,617	2,144	1,126	371	334	245	301	307	165	922	1,491	887
2001	3,200	2,679	22,457	5,915	1,212	4,475	1,708	2,787	2,079	1,214	1,167	2,245	4,284
2002	2,158	2,906	4,420	2,290	653	540	809	708	1,600	3,060	4,393	4,565	2,339
2003	4,133	3,717	8,599	6,596	4,557	6,115	9,829	5,364	3,052	1,426	1,690	3,368	4,885
2004	3,393	7,886	4,154	1,646	2,611	3,853	2,884	1,397	7,205	3,683	5,741	5,769	4,150
2005	4,463	4,805	4,172	16,956	3,481	3,132	4,989	5,267	3,634	2,527	1,371	2,538	4,761
2006	3,264	3,550	3,372	1,260	2,057	532	461	598	507	653	2,161	1,255	1,629
2007	3,604	2,498	2,196	4,975	840	578	624	303	474	734	800	1,788	1,610
2008	5,595	6,966	4,004	3,543	1,044	524	811	2,306	1,551	538	522	3,434	2,545
2009	3,422	1,945	6,490	14,155	5,136	3,240	1,143	2,074	3,339	2,286	5,302	19,326	5,676
2010	10,986	12,361	7,892	2,681	3,264	1,411	815	970	487	441	899	1,183	3,569
2011	1,741	3,136	3,936	2,006	457	279	709	384	524	348	357	1,073	1,235
2012	1,713	3,863	2,291	1,454	989	1,526	631	1,024	2,077	884	482	1,272	1,499
2013	1,924	8,930	6,058	3,473	1,392	937	2,814	3,168	1,264	643	515	2,266	2,745
2014	3,401	5,361	4,755	11,947	8,194	2,848	1,239	852	664	849	740	2,141	3,563

Non-Exceedance Percentiles

02374000 - Conecuh river near Brooklyn, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,205	1,418	2,144	1,126	371	279	245	301	307	165	357	1,073	887
5th %	1,657	1,929	2,287	1,444	643	476	615	380	486	437	514	1,179	1,486
10th %	1,738	2,661	3,473	1,970	863	532	631	599	522	454	634	1,258	1,627
15th %	2,071	3,027	3,880	2,242	1,036	572	701	706	637	584	728	1,380	2,299
20th %	2,947	3,418	4,124	2,367	1,189	917	811	824	663	636	795	1,457	2,618
30th %	3,398	3,819	4,624	2,917	1,491	1,023	1,139	1,008	872	744	987	1,722	2,761
40th %	3,571	4,967	5,325	3,515	2,115	1,429	1,478	1,379	930	828	1,191	2,105	3,293
Median	4,127	5,361	6,615	4,348	2,459	1,960	1,628	1,515	1,177	920	1,437	2,255	3,542
60th %	4,849	7,017	7,046	5,373	3,193	2,666	1,806	1,626	1,379	1,169	1,686	2,674	4,039
70th %	5,659	9,032	8,500	6,165	3,916	3,272	2,137	2,143	1,728	1,364	2,059	3,388	4,680
80th %	6,543	10,052	10,600	9,215	4,833	3,776	3,036	2,794	2,182	1,714	2,578	5,083	4,936
90th %	9,516	11,619	14,084	14,399	7,460	4,649	5,054	4,521	3,673	3,123	4,927	5,878	5,291
Maximum	13,159	12,967	22,457	21,373	12,621	9,454	13,563	15,510	7,471	15,090	5,741	19,326	8,795
Average	4,912	6,548	7,679	6,207	3,367	2,560	2,397	2,178	1,752	1,935	1,974	3,424	3,728

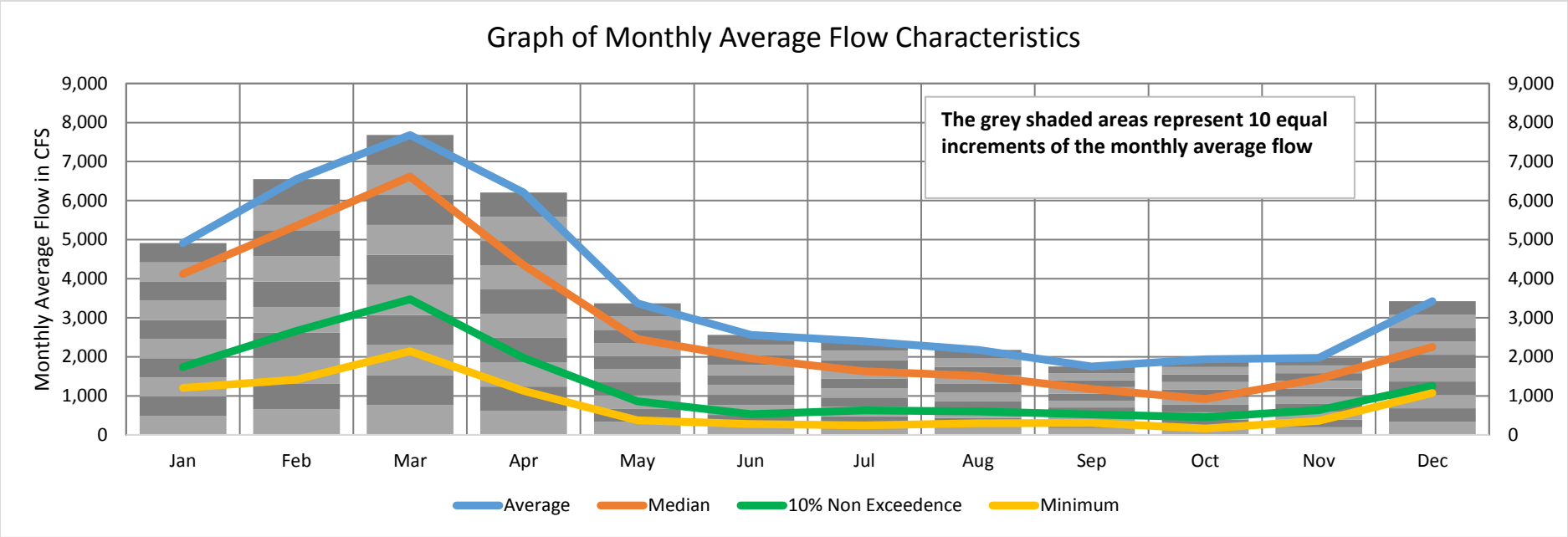
	Flows in CFS
Minimum	164.7
5th %	524
10th %	706
15th %	865
20th %	1,025
30th %	1,425
40th %	1,778
Median	2,401
60th %	3,294
70th %	4,314
80th %	5,605
90th %	8,931
Maximum	22,457
Average	3,745



Q10/Q50	0.29
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.07
Q5/DA	0.21
Q10/DA	0.28
Q15/DA	0.35
Q20/DA	0.41
Q30/DA	0.57
Q40/DA	0.71
Q50/DA	0.96
Q60/DA	1.32
Q70/DA	1.73
Q80/DA	2.25
Q90/DA	3.58
Qmax/DA	9.00

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

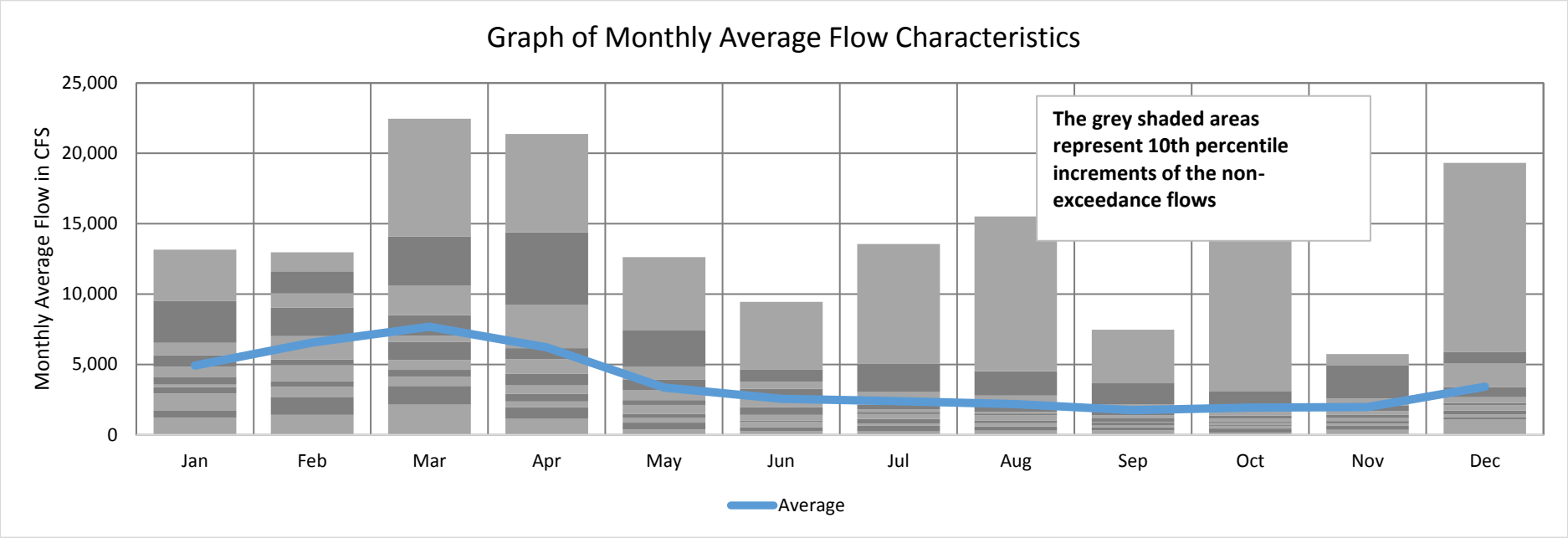
Site #: 02374000 Name: Conecuh river near Brooklyn, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,912	6,548	7,679	6,207	3,367	2,560	2,397	2,178	1,752	1,935	1,974	3,424
100%	13,159	12,967	22,457	21,373	12,621	9,454	13,563	15,510	7,471	15,090	5,741	19,326
98%	12,679	12,494	20,709	18,931	10,513	8,645	10,651	7,596	7,264	11,830	5,736	12,058
95%	11,064	12,074	19,929	17,020	9,490	6,693	6,544	5,272	4,805	9,119	5,604	7,674
90%	9,516	11,619	14,084	14,399	7,460	4,649	5,054	4,521	3,673	3,123	4,927	5,878
75%	5,985	9,756	8,683	7,570	4,566	3,393	2,832	2,402	1,982	1,467	2,224	4,359
50%	4,127	5,361	6,615	4,348	2,459	1,960	1,628	1,515	1,177	920	1,437	2,255
25%	3,248	3,544	4,309	2,677	1,265	968	903	891	727	651	915	1,535
10%	1,738	2,661	3,473	1,970	863	532	631	599	522	454	634	1,258
5%	1,657	1,929	2,287	1,444	643	476	615	380	486	437	514	1,179
2%	1,493	1,573	2,185	1,230	438	322	413	303	438	308	454	1,087
0%	1,205	1,418	2,144	1,126	371	279	245	301	307	165	357	1,073

Site #: 02374000 Name: Conecuh river near Brooklyn, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,495 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,912	6,548	7,679	6,207	3,367	2,560	2,397	2,178	1,752	1,935	1,974	3,424
100%	13,159	12,967	22,457	21,373	12,621	9,454	13,563	15,510	7,471	15,090	5,741	19,326
98%	12,679	12,494	20,709	18,931	10,513	8,645	10,651	7,596	7,264	11,830	5,736	12,058
95%	11,064	12,074	19,929	17,020	9,490	6,693	6,544	5,272	4,805	9,119	5,604	7,674
90%	9,516	11,619	14,084	14,399	7,460	4,649	5,054	4,521	3,673	3,123	4,927	5,878
75%	5,985	9,756	8,683	7,570	4,566	3,393	2,832	2,402	1,982	1,467	2,224	4,359
50%	4,127	5,361	6,615	4,348	2,459	1,960	1,628	1,515	1,177	920	1,437	2,255
25%	3,248	3,544	4,309	2,677	1,265	968	903	891	727	651	915	1,535
10%	1,738	2,661	3,473	1,970	863	532	631	599	522	454	634	1,258
5%	1,657	1,929	2,287	1,444	643	476	615	380	486	437	514	1,179
2%	1,493	1,573	2,185	1,230	438	322	413	303	438	308	454	1,087
0%	1,205	1,418	2,144	1,126	371	279	245	301	307	165	357	1,073

Monthly Flows (in CFS) for

02374250 - Conecuh River at State Highway 41 near Brewton, Ala.

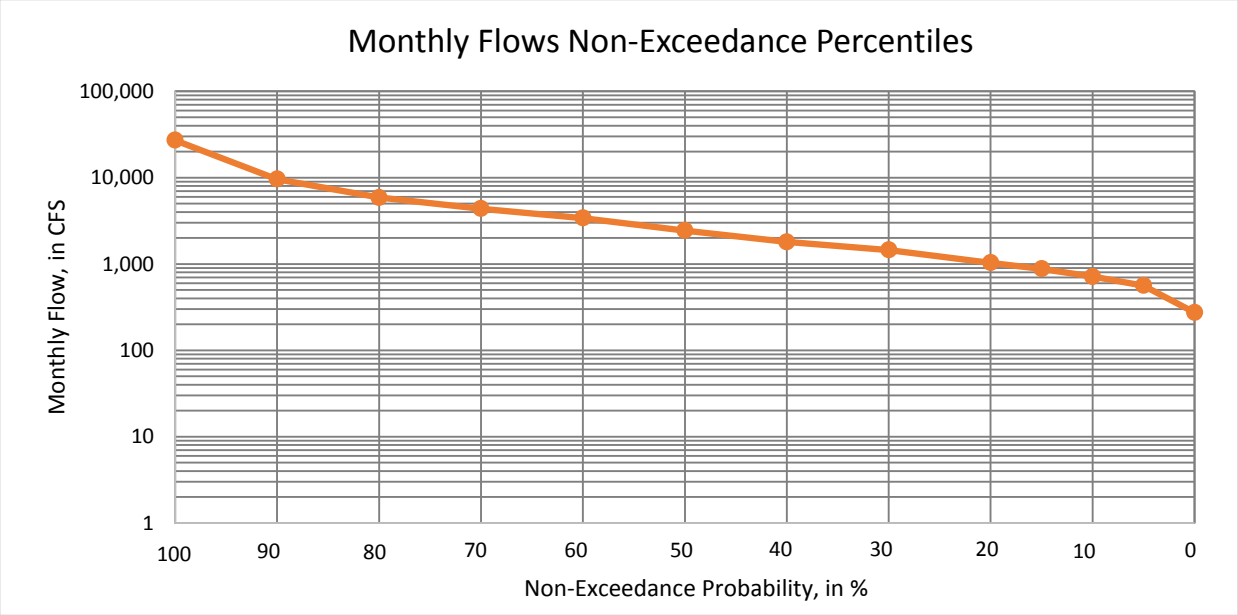
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	6,719	12,546	12,483	20,014	5,626	4,643	3,654	16,968	7,944	11,804	6,013	5,279	9,447
1976	10,596	6,799	5,644	9,616	10,688	6,975	1,883	1,349	1,172	1,027	1,783	5,706	5,262
1977	6,148	3,096	12,202	7,944	1,239	854	942	3,530	1,952	1,138	2,042	2,090	3,606
1978	10,197	10,465	7,292	4,790	13,728	9,002	2,027	2,316	941	804	796	1,806	5,321
1979	5,415	13,096	16,304	11,028	3,297	1,678	3,054	1,880	1,723	1,245	1,610	2,914	5,220
1980	4,610	3,565	13,096	23,474	10,181	4,436	1,546	915	977	1,336	1,680	1,460	5,601
1981	1,205	11,493	3,646	2,971	1,530	1,051	657	715	732	492	674	1,565	2,161
1982	6,096	14,117	4,889	3,718	2,758	977	1,753	2,716	910	769	1,022	2,929	3,488
1983	5,253	13,096	15,266	18,173	4,759	3,853	3,435	1,508	1,687	965	1,811	5,387	6,209
1984	6,873	4,056	9,101	4,894	5,845	1,437	1,716	4,953	915	844	1,078	2,123	3,667
1985	2,101	9,533	6,931	2,055	1,827	1,024	2,120	1,516	1,225	1,439	2,112	5,362	3,067
1986	4,897	5,261	11,268	2,286	1,273	1,031	681	630	938	624	1,466	3,276	2,797
1987	4,245	7,521	7,174	3,835	2,318	2,648	1,620	1,668	679	500	1,033	1,433	2,861
1988	5,359	5,196	7,440	3,161	879	525	1,130	837	4,135	1,568	1,401	1,258	2,725
1989	1,571	1,415	3,560	8,385	3,079	10,166	6,719	1,539	893	1,539	3,860	4,429	3,930
1990	14,332	12,084	22,199	6,057	4,939	2,051	1,454	840	586	642	686	1,094	5,562
1991	3,198	5,601	7,803	2,922	7,840	3,439	3,194	1,453	1,185	672	1,233	1,547	3,334
1992	7,417	10,696	5,102	2,693	1,100	2,497	1,630	1,593	1,026	776	5,861	10,789	4,226
1993	7,056	5,326	7,049	6,265	2,160	975	1,489	1,251	1,187	873	2,431	2,339	3,188
1994	3,572	5,126	4,499	4,195	1,751	3,533	14,786	4,651	1,732	2,670	1,677	2,529	4,235
1995	4,007	10,627	9,586	5,321	3,218	1,871	1,272	2,856	755	9,685	5,079	7,255	5,103
1996	7,521	11,407	9,093	13,649	4,269	2,760	1,941	1,765	2,619	1,324	1,208	1,924	4,902
1997	4,002	6,975	5,440	3,134	3,919	3,414	2,194	1,539	684	842	2,851	8,034	3,570
1998	13,641	9,960	21,865	6,285	2,299	1,126	1,511	1,230	4,853	16,498	2,537	2,204	7,013
1999	3,599	3,602	7,514	2,400	2,737	2,983	6,838	1,599	882	817	741	1,233	2,919
2000	1,593	1,513	2,304	1,275	478	366	302	390	382	274	744	1,287	906
2001	3,307	2,651	19,990	6,162	1,445	4,950	1,632	2,966	2,025	1,268	1,416	2,343	4,198
2002	2,335	3,123	4,844	2,494	858	690	879	693	1,031	2,772	4,233	4,524	2,370
2003	4,014	3,811	8,264	7,100	4,249	6,592	9,028	5,637	3,240	1,617	1,889	3,411	4,916
2004	3,357	7,447	4,125	1,793	2,262	3,121	2,479	1,366	4,095	2,784	5,112	5,135	3,559
2005	3,677	4,416	3,883	15,260	3,503	2,936	4,643	6,032	3,117	1,880	1,634	2,744	4,464
2006	3,395	3,780	3,628	1,601	2,441	727	522	550	486	541	1,885	987	1,701
2007	3,042	2,206	2,149	3,960	618	448	584	325	420	635	751	1,817	1,407
2008	5,037	6,763	4,424	3,830	1,016	482	638	2,355	1,589	529	563	4,042	2,582
2009	3,691	1,993	6,653	13,100	5,425	3,435	1,272	1,988	3,818	2,383	5,935	27,010	6,426
2010	14,550	14,140	10,020	2,811	3,599	1,373	863	1,097	635	545	914	1,267	4,269
2011	1,721	3,626	4,682	2,278	592	389	684	434	587	398	442	1,200	1,407
2012	1,640	3,458	2,086	1,610	1,024	1,594	676	1,081	2,360	724	488	1,350	1,492
2013	2,132	10,970	7,479	4,358	1,728	1,251	4,096	4,577	1,502	880	756	2,516	3,476
2014	3,868	6,379	5,149	15,430	8,902	2,739	1,281	905	698	910	787	2,299	4,085

Non-Exceedance Percentiles

02374250 - Conecuh River at State Highway 41 near Brewton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,205	1,415	2,086	1,275	478	366	302	325	382	274	442	987	906
5th %	1,592	1,969	2,296	1,610	617	445	581	431	483	487	559	1,195	1,407
10th %	1,713	2,607	3,621	2,029	877	521	655	622	587	526	685	1,255	1,680
15th %	2,127	3,119	3,847	2,284	1,023	722	680	712	673	544	744	1,284	2,338
20th %	2,901	3,544	4,364	2,475	1,211	950	827	839	695	632	755	1,417	2,697
30th %	3,384	3,802	4,875	2,956	1,669	1,045	1,229	1,092	890	755	989	1,734	3,023
40th %	3,685	5,168	5,562	3,785	2,221	1,412	1,475	1,359	940	832	1,223	2,110	3,484
Median	4,011	5,990	7,111	4,277	2,589	1,961	1,625	1,528	1,102	895	1,538	2,341	3,637
60th %	4,953	7,164	7,493	5,615	3,249	2,747	1,805	1,626	1,336	1,181	1,721	2,812	4,209
70th %	5,619	10,111	9,095	6,529	4,018	3,209	2,143	2,086	1,726	1,367	1,935	3,600	4,595
80th %	6,909	11,057	11,454	9,899	5,036	3,597	3,242	2,878	2,412	1,670	2,600	5,164	5,228
90th %	10,237	12,601	15,370	15,277	7,946	5,114	4,851	4,681	3,846	2,773	5,082	5,861	5,662
Maximum	14,550	14,140	22,199	23,474	13,728	10,166	14,786	16,968	7,944	16,498	6,013	27,010	9,447
Average	5,175	6,973	8,153	6,558	3,535	2,651	2,471	2,305	1,708	1,976	2,006	3,697	3,917

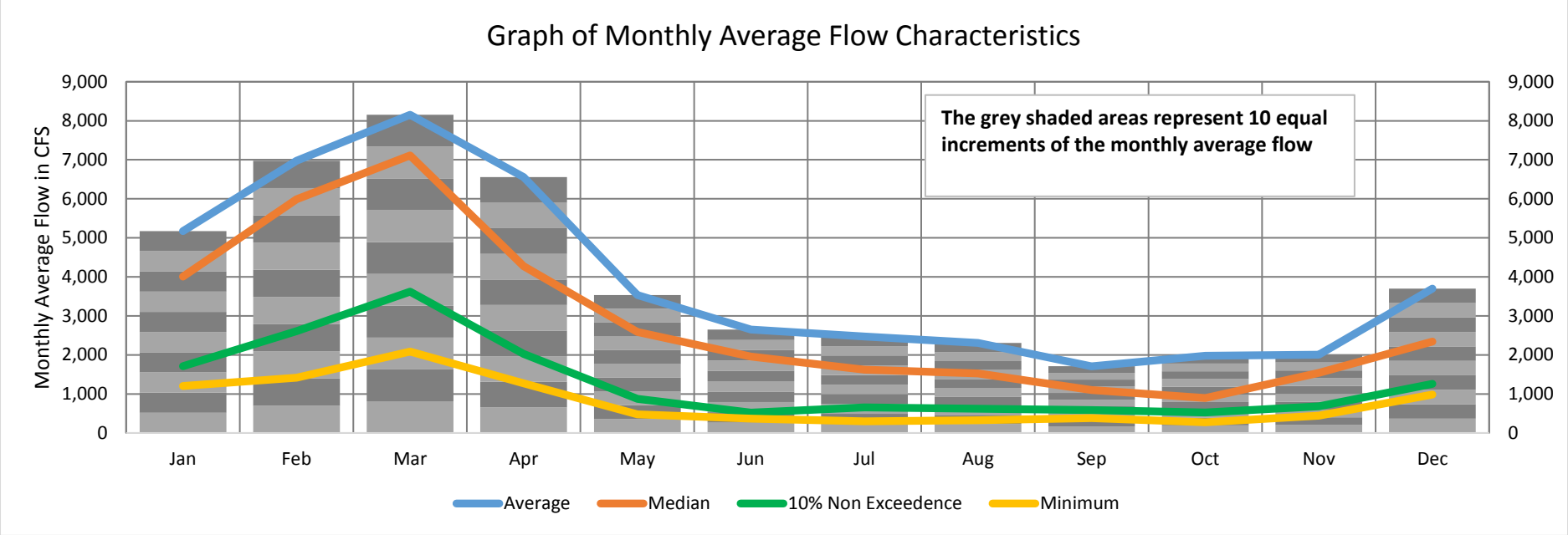
	Flows in CFS
Minimum	273.8
5th %	562
10th %	713
15th %	879
20th %	1,030
30th %	1,451
40th %	1,801
Median	2,436
60th %	3,401
70th %	4,375
80th %	5,876
90th %	9,589
Maximum	27,010
Average	3,934



Q10/Q50	0.29
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.10
Q5/DA	0.21
Q10/DA	0.27
Q15/DA	0.33
Q20/DA	0.39
Q30/DA	0.55
Q40/DA	0.68
Q50/DA	0.92
Q60/DA	1.28
Q70/DA	1.64
Q80/DA	2.21
Q90/DA	3.60
Qmax/DA	10.15

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

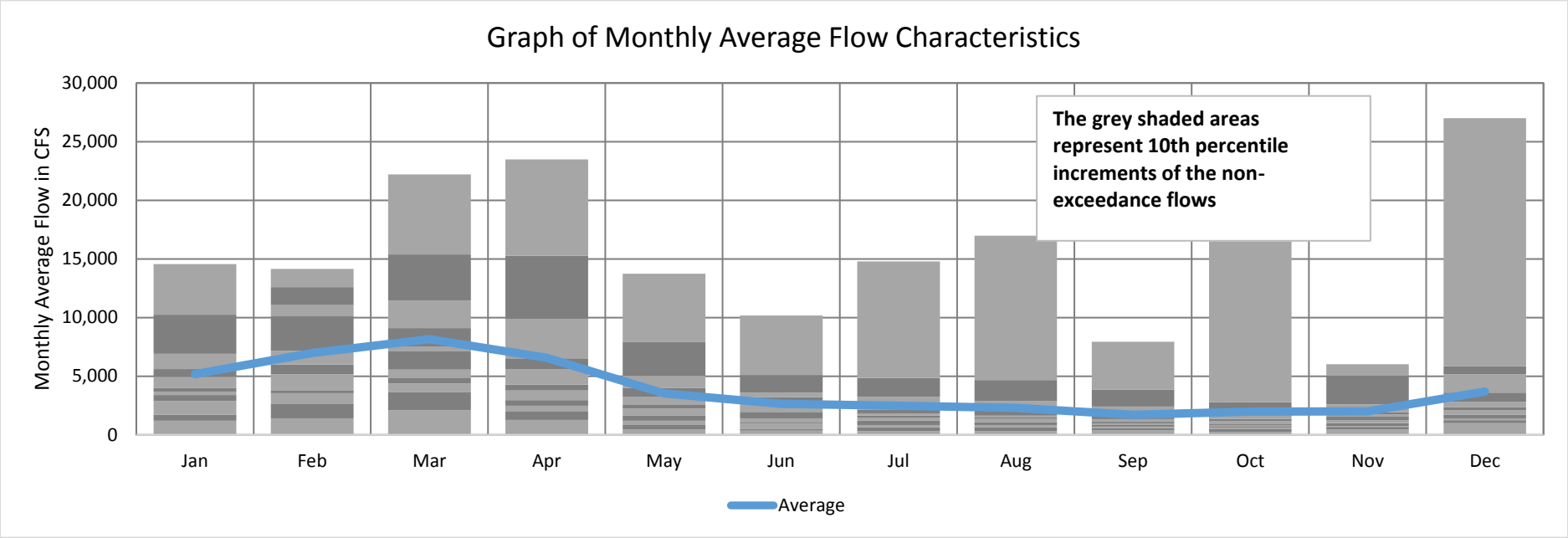
Site #: 02374250 Name: Conecuh River at State Highway 41 near Brewton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,175	6,973	8,153	6,558	3,535	2,651	2,471	2,305	1,708	1,976	2,006	3,697
100%	14,550	14,140	22,199	23,474	13,728	10,166	14,786	16,968	7,944	16,498	6,013	27,010
98%	14,380	14,122	21,939	20,775	11,357	9,258	10,295	8,438	5,533	12,836	5,952	14,357
95%	13,676	13,147	20,084	18,265	10,207	7,077	6,947	5,657	4,171	9,791	5,865	8,172
90%	10,237	12,601	15,370	15,277	7,946	5,114	4,851	4,681	3,846	2,773	5,082	5,861
75%	6,291	10,644	9,695	8,055	4,392	3,436	2,623	2,445	1,970	1,546	2,192	4,453
50%	4,011	5,990	7,111	4,277	2,589	1,961	1,625	1,528	1,102	895	1,538	2,341
25%	3,280	3,620	4,636	2,782	1,402	1,012	926	912	749	665	794	1,525
10%	1,713	2,607	3,621	2,029	877	521	655	622	587	526	685	1,255
5%	1,592	1,969	2,296	1,610	617	445	581	431	483	487	559	1,195
2%	1,491	1,492	2,135	1,529	567	384	474	375	411	370	478	1,071
0%	1,205	1,415	2,086	1,275	478	366	302	325	382	274	442	987

Site #: 02374250 Name: Conecuh River at State Highway 41 near Brewton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,661 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,175	6,973	8,153	6,558	3,535	2,651	2,471	2,305	1,708	1,976	2,006	3,697
100%	14,550	14,140	22,199	23,474	13,728	10,166	14,786	16,968	7,944	16,498	6,013	27,010
98%	14,380	14,122	21,939	20,775	11,357	9,258	10,295	8,438	5,533	12,836	5,952	14,357
95%	13,676	13,147	20,084	18,265	10,207	7,077	6,947	5,657	4,171	9,791	5,865	8,172
90%	10,237	12,601	15,370	15,277	7,946	5,114	4,851	4,681	3,846	2,773	5,082	5,861
75%	6,291	10,644	9,695	8,055	4,392	3,436	2,623	2,445	1,970	1,546	2,192	4,453
50%	4,011	5,990	7,111	4,277	2,589	1,961	1,625	1,528	1,102	895	1,538	2,341
25%	3,280	3,620	4,636	2,782	1,402	1,012	926	912	749	665	794	1,525
10%	1,713	2,607	3,621	2,029	877	521	655	622	587	526	685	1,255
5%	1,592	1,969	2,296	1,610	617	445	581	431	483	487	559	1,195
2%	1,491	1,492	2,135	1,529	567	384	474	375	411	370	478	1,071
0%	1,205	1,415	2,086	1,275	478	366	302	325	382	274	442	987

Monthly Flows (in CFS) for
02374500 - Murder Creek near Evergreen, Ala.

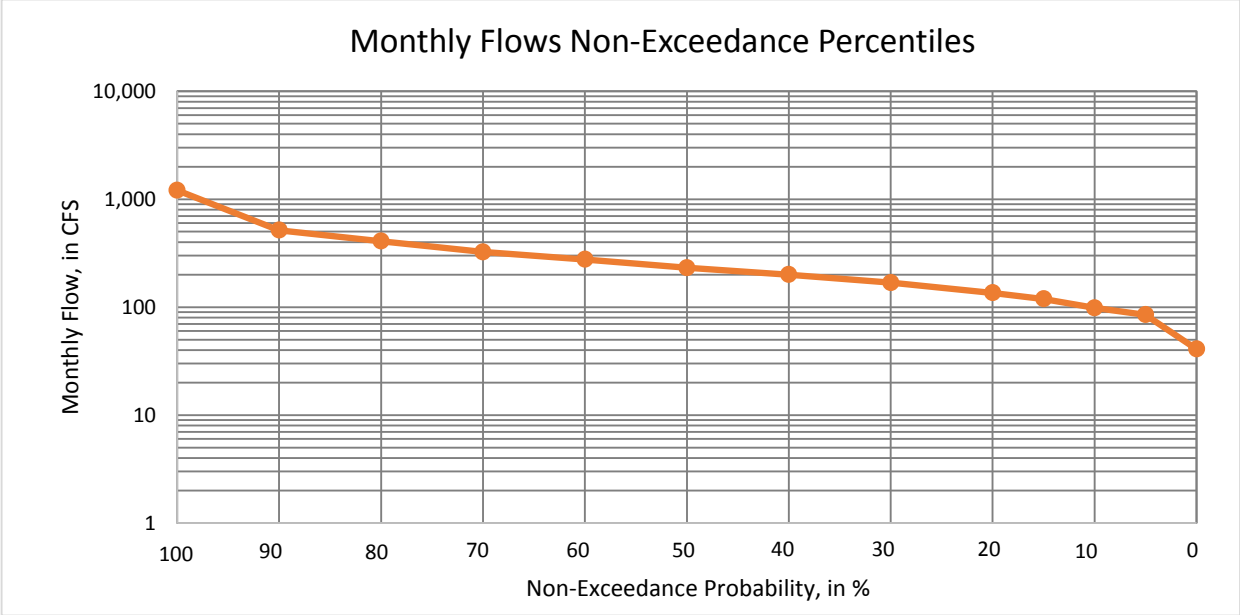
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	446	671	580	983	434	401	419	757	418	479	358	496	536
1976	588	488	484	407	741	439	292	204	214	168	306	347	389
1977	390	317	742	456	224	165	205	243	188	160	185	190	289
1978	586	341	356	317	795	550	240	176	120	110	153	254	334
1979	438	646	822	644	299	240	397	248	262	163	248	326	393
1980	400	314	688	1,088	710	627	310	218	233	261	237	224	442
1981	202	591	306	231	212	185	113	109	108	82	94	183	198
1982	287	514	281	309	217	126	258	257	111	96	162	238	236
1983	292	579	754	858	438	460	294	227	204	166	293	390	411
1984	410	412	516	405	527	208	191	363	123	214	187	241	316
1985	242	527	350	211	192	122	299	136	196	179	229	358	252
1986	291	353	448	210	194	123	104	88	108	83	200	234	202
1987	279	412	338	211	194	200	152	175	88	69	170	241	210
1988	412	350	433	230	105	74	137	93	303	143	212	173	221
1989	187	172	342	464	229	426	348	141	130	155	258	369	269
1990	633	768	1,146	435	361	258	226	130	117	123	137	174	374
1991	314	347	481	279	440	303	291	172	187	133	199	221	281
1992	517	637	353	258	156	276	201	167	132	122	575	525	324
1993	483	377	462	400	236	170	267	224	191	183	306	261	296
1994	311	323	316	319	216	250	422	184	150	224	192	225	261
1995	297	438	499	378	207	165	152	330	99	456	292	414	310
1996	599	726	764	615	297	289	228	170	232	145	175	212	369
1997	320	422	376	258	245	249	143	117	87	112	233	317	239
1998	572	433	740	319	150	119	119	93	409	262	166	166	295
1999	220	212	352	190	187	225	242	104	83	115	127	157	184
2000	169	140	155	91	55	71	43	41	53	44	133	169	97
2001	198	189	1,105	343	144	403	161	252	308	234	213	255	318
2002	255	272	390	225	114	84	144	98	156	285	271	343	219
2003	274	382	508	391	318	435	768	312	202	162	215	282	354
2004	277	485	228	155	184	215	153	111	367	398	591	455	300
2005	417	431	333	934	303	576	669	485	407	222	234	268	439
2006	373	389	239	126	170	87	87	99	87	124	259	171	183
2007	331	184	187	201	66	65	89	58	61	97	103	201	137
2008	295	347	242	204	102	75	90	176	93	70	93	192	164
2009	245	147	440	447	415	151	121	161	225	172	321	1,209	340
2010	846	752	566	286	343	182	134	152	92	89	138	160	310
2011	176	313	307	160	71	52	94	63	79	60	85	124	131
2012	145	270	207	106	112	128	88	163	191	97	70	160	144
2013	163	766	320	366	200	149	179	152	127	89	109	378	246
2014	280	418	384	621	499	241	129	120	131	118	142	262	278

Non-Exceedance Percentiles

02374500 - Murder Creek near Evergreen, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	145	140	155	91	55	52	43	41	53	44	70	124	97
5th %	169	170	206	125	71	71	88	63	78	69	93	159	136
10th %	186	189	237	159	105	75	90	92	86	81	102	165	162
15th %	201	261	276	199	113	86	102	97	87	88	124	171	184
20th %	238	304	306	208	149	122	118	103	93	95	136	174	201
30th %	276	336	336	228	186	143	136	119	110	111	159	198	232
40th %	289	352	353	271	198	168	152	147	126	122	181	224	257
Median	304	400	387	318	217	204	185	165	141	144	199	241	285
60th %	347	425	453	371	240	240	226	175	189	162	221	261	304
70th %	411	486	502	406	308	263	260	208	202	174	241	320	320
80th %	453	582	602	458	419	402	295	244	232	222	275	360	357
90th %	586	676	755	665	501	441	400	313	314	264	308	418	395
Maximum	846	768	1,146	1,088	795	627	768	757	418	479	591	1,209	536
Average	354	421	463	378	278	239	225	189	177	166	217	289	282

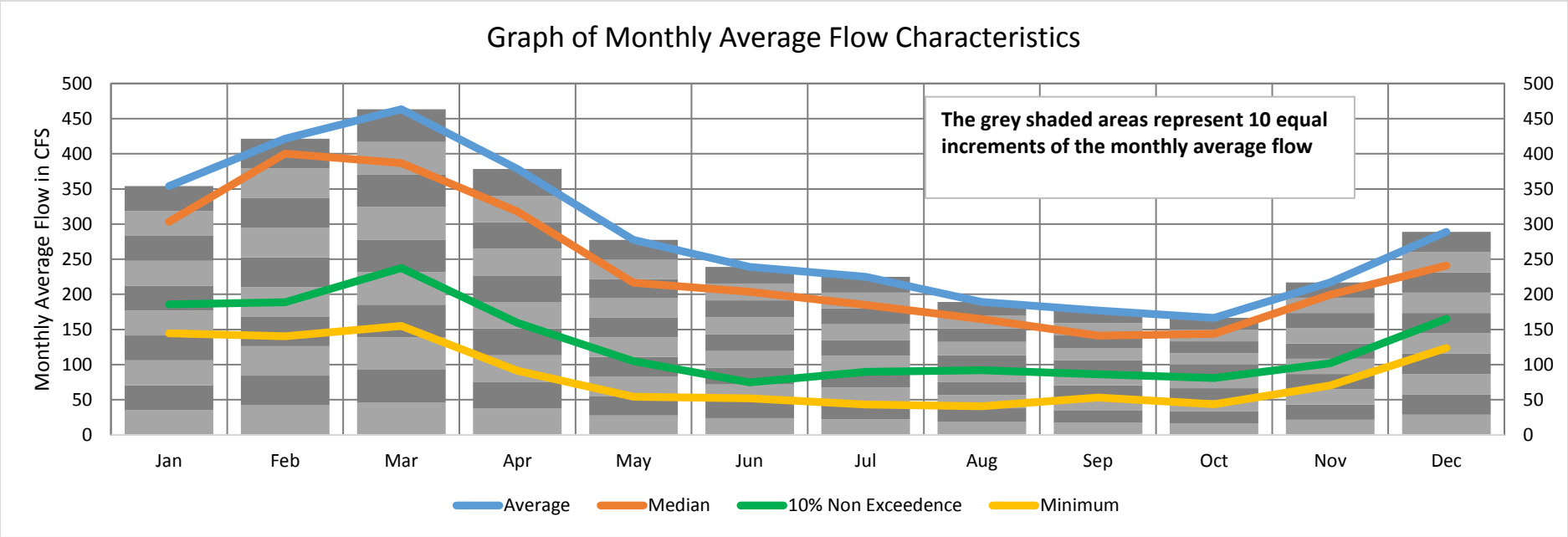
	Flows in CFS
Minimum	40.8
5th %	85
10th %	98
15th %	119
20th %	136
30th %	169
40th %	200
Median	231
60th %	276
70th %	324
80th %	408
90th %	516
Maximum	1,209
Average	283



Q10/Q50	0.43
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.23
Q5/DA	0.48
Q10/DA	0.56
Q15/DA	0.68
Q20/DA	0.77
Q30/DA	0.96
Q40/DA	1.14
Q50/DA	1.31
Q60/DA	1.57
Q70/DA	1.84
Q80/DA	2.32
Q90/DA	2.93
Qmax/DA	6.87

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

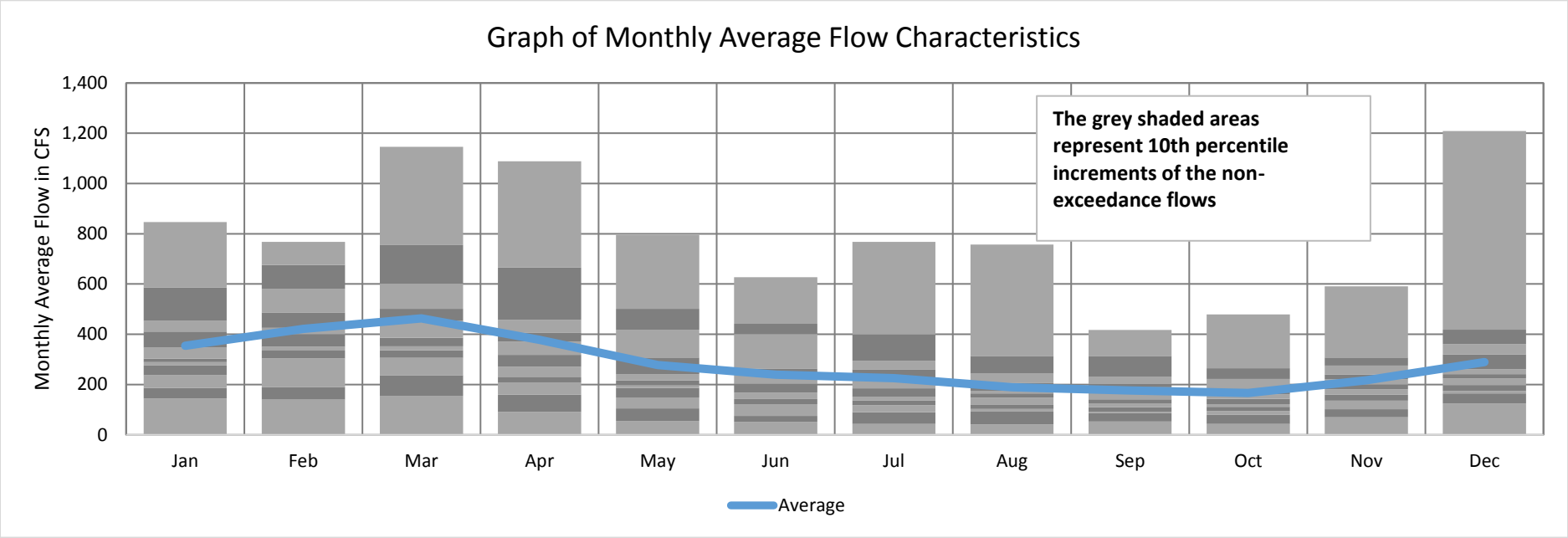
Site #: 02374500 Name: Murder Creek near Evergreen, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	354	421	463	378	278	239	225	189	177	166	217	289
100%	846	768	1,146	1,088	795	627	768	757	418	479	591	1,209
98%	680	766	1,114	1,006	753	587	691	545	411	461	578	675
95%	601	752	836	936	712	551	434	369	407	401	368	497
90%	586	676	755	665	501	441	400	313	314	264	308	418
75%	422	517	528	438	348	293	291	225	216	191	258	344
50%	304	400	387	318	217	204	185	165	141	144	199	241
25%	252	316	319	211	166	125	127	111	105	97	141	188
10%	186	189	237	159	105	75	90	92	86	81	102	165
5%	169	170	206	125	71	71	88	63	78	69	93	159
2%	159	145	180	103	64	62	77	54	59	56	82	149
0%	145	140	155	91	55	52	43	41	53	44	70	124

Site #: 02374500 Name: Murder Creek near Evergreen, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 176 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	354	421	463	378	278	239	225	189	177	166	217	289
100%	846	768	1,146	1,088	795	627	768	757	418	479	591	1,209
98%	680	766	1,114	1,006	753	587	691	545	411	461	578	675
95%	601	752	836	936	712	551	434	369	407	401	368	497
90%	586	676	755	665	501	441	400	313	314	264	308	418
75%	422	517	528	438	348	293	291	225	216	191	258	344
50%	304	400	387	318	217	204	185	165	141	144	199	241
25%	252	316	319	211	166	125	127	111	105	97	141	188
10%	186	189	237	159	105	75	90	92	86	81	102	165
5%	169	170	206	125	71	71	88	63	78	69	93	159
2%	159	145	180	103	64	62	77	54	59	56	82	149
0%	145	140	155	91	55	52	43	41	53	44	70	124

Monthly Flows (in CFS) for
02374700 - Murder Creek at Brewton, Ala.

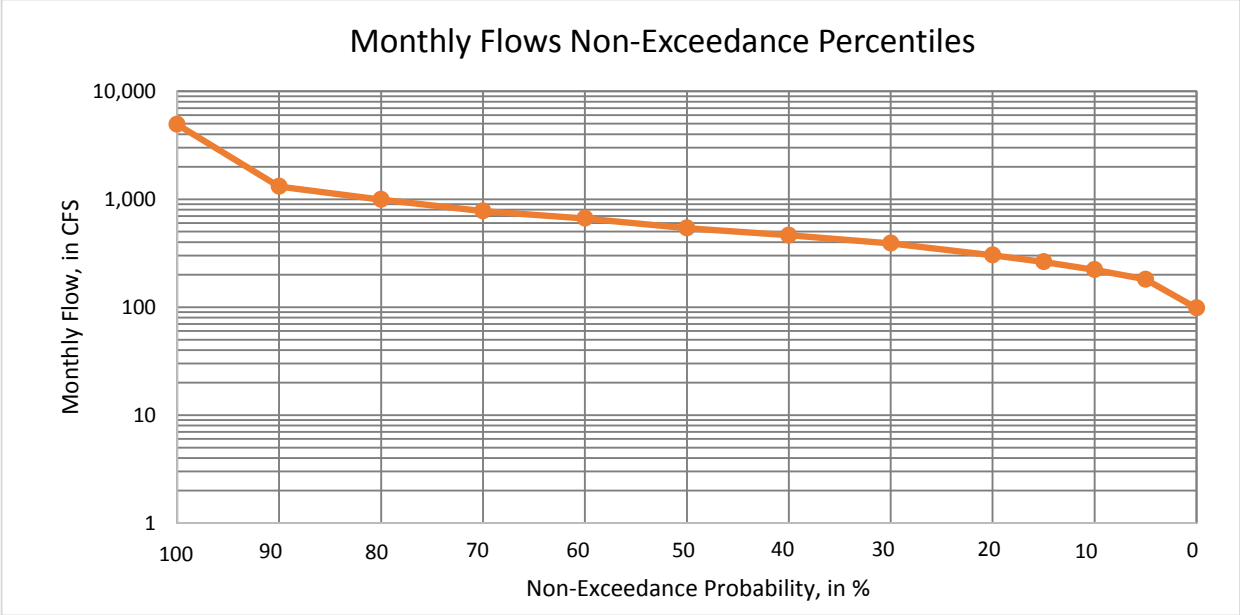
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,091	1,742	1,471	2,747	1,057	969	1,018	2,007	1,014	1,182	853	1,229	1,362
1976	1,494	1,207	1,196	985	1,958	1,073	685	468	492	384	719	826	957
1977	940	749	1,960	1,118	518	378	471	563	431	365	423	436	697
1978	1,489	810	848	748	2,129	1,384	556	404	276	253	349	590	821
1979	1,069	1,666	2,215	1,661	701	556	959	575	611	372	577	772	974
1980	967	741	1,794	3,109	1,863	1,609	730	503	540	607	550	518	1,127
1981	464	1,502	719	533	488	425	260	251	249	192	217	419	470
1982	671	1,280	658	728	500	288	599	598	255	223	371	551	556
1983	686	1,469	1,998	2,331	1,070	1,130	690	524	469	380	689	939	1,026
1984	992	997	1,286	979	1,316	478	438	867	283	494	429	558	760
1985	561	1,318	832	486	442	281	701	311	451	410	529	855	594
1986	682	840	1,096	483	446	282	240	205	248	194	460	541	475
1987	653	999	802	486	445	460	348	400	204	164	390	559	490
1988	999	834	1,055	531	243	175	315	215	712	326	488	395	522
1989	429	393	812	1,141	529	1,037	828	323	299	355	600	884	636
1990	1,628	2,042	3,313	1,060	863	600	521	297	269	282	314	399	961
1991	740	825	1,188	653	1,076	714	683	394	430	305	458	510	664
1992	1,288	1,639	842	601	356	645	461	383	303	280	1,456	1,311	791
1993	1,193	904	1,135	967	547	389	623	518	439	420	721	607	704
1994	732	764	747	753	498	580	1,025	421	344	518	441	519	612
1995	696	1,069	1,238	908	478	378	349	782	228	1,118	686	1,004	744
1996	1,527	1,912	2,029	1,575	697	678	526	390	537	333	401	489	918
1997	757	1,025	901	600	569	579	328	268	202	257	539	750	562
1998	1,446	1,055	1,955	754	344	274	273	217	990	611	380	380	722
1999	506	489	838	431	324	485	626	311	234	269	239	317	423
2000	363	364	391	233	139	177	120	124	155	98	291	355	233
2001	543	495	2,566	808	383	869	349	643	594	403	306	393	698
2002	401	528	756	414	202	200	356	237	443	707	741	826	484
2003	695	782	1,198	1,012	734	1,005	1,862	944	517	326	430	714	853
2004	689	1,426	638	510	617	879	476	282	964	664	1,468	1,026	796
2005	909	869	832	2,365	740	958	1,214	909	892	424	399	505	916
2006	666	697	530	266	346	155	153	201	152	233	503	413	358
2007	897	563	472	1,154	194	155	220	147	208	294	323	668	440
2008	1,143	1,326	705	671	264	193	238	525	217	169	199	578	514
2009	622	390	1,284	1,810	1,106	627	264	472	480	452	1,031	4,925	1,129
2010	2,590	2,405	1,484	587	699	341	246	323	181	170	269	307	792
2011	409	644	883	427	160	121	212	133	156	132	143	266	305
2012	428	836	457	242	222	334	213	385	466	259	173	360	361
2013	438	2,071	959	729	356	217	263	231	247	136	155	614	524
2014	681	1,079	998	1,843	1,654	630	263	222	200	249	217	577	715

Non-Exceedance Percentiles

02374700 - Murder Creek at Brewton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	363	364	391	233	139	121	120	124	152	98	143	266	233
5th %	408	393	471	265	192	155	209	146	156	136	172	316	355
10th %	429	494	627	426	220	177	219	204	198	168	215	360	417
15th %	460	558	698	475	261	199	239	217	204	189	236	391	465
20th %	536	687	741	486	340	263	257	229	215	217	287	399	482
30th %	662	776	826	571	375	320	271	278	248	256	341	473	524
40th %	684	835	846	664	465	385	348	318	273	281	395	518	605
Median	714	951	978	751	509	481	450	387	324	326	429	558	697
60th %	902	1,060	1,156	932	588	588	523	411	441	368	471	597	731
70th %	994	1,292	1,252	1,026	711	655	624	507	472	405	542	724	793
80th %	1,153	1,476	1,546	1,238	1,060	894	693	565	537	460	686	832	916
90th %	1,490	1,759	2,001	1,892	1,350	1,041	965	790	730	616	752	1,006	979
Maximum	2,590	2,405	3,313	3,109	2,129	1,609	1,862	2,007	1,014	1,182	1,468	4,925	1,362
Average	879	1,069	1,177	986	682	568	518	449	410	375	498	722	692

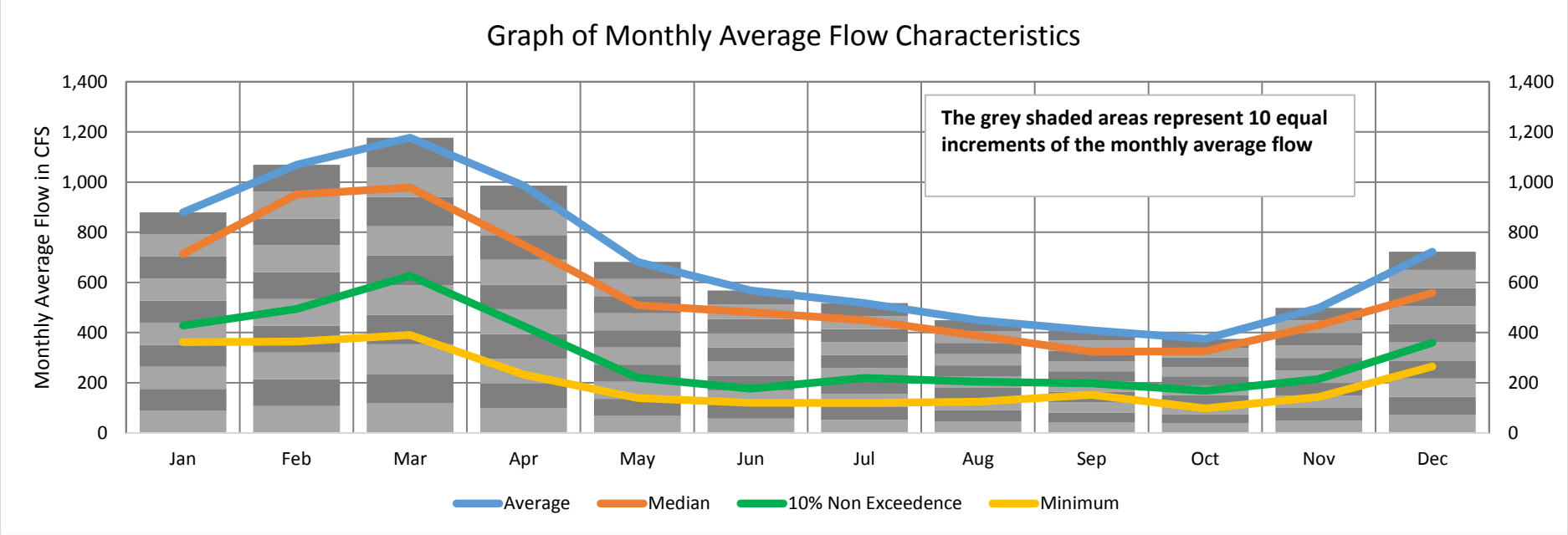
	Flows in CFS
Minimum	98.0
5th %	181
10th %	222
15th %	263
20th %	302
30th %	390
40th %	463
Median	540
60th %	664
70th %	775
80th %	993
90th %	1,312
Maximum	4,925
Average	694



Q10/Q50	0.41
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.23
Q5/DA	0.42
Q10/DA	0.51
Q15/DA	0.60
Q20/DA	0.70
Q30/DA	0.90
Q40/DA	1.06
Q50/DA	1.24
Q60/DA	1.53
Q70/DA	1.78
Q80/DA	2.28
Q90/DA	3.02
Qmax/DA	11.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

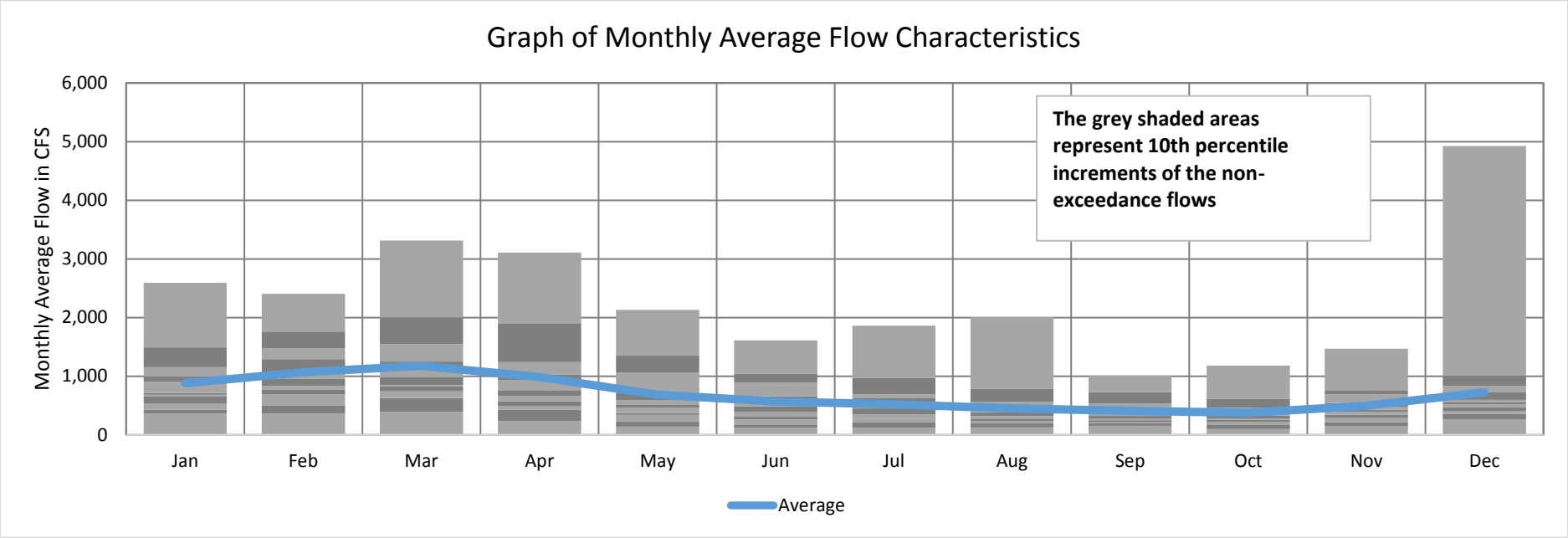
Site #: 02374700 Name: Murder Creek at Brewton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	879	1,069	1,177	986	682	568	518	449	410	375	498	722
100%	2,590	2,405	3,313	3,109	2,129	1,609	1,862	2,007	1,014	1,182	1,468	4,925
98%	1,839	2,144	2,730	2,827	1,996	1,433	1,357	1,178	995	1,132	1,458	2,106
95%	1,532	2,044	2,233	2,384	1,868	1,143	1,034	911	965	727	1,052	1,234
90%	1,490	1,759	2,001	1,892	1,350	1,041	965	790	730	616	752	1,006
75%	1,075	1,351	1,332	1,124	771	753	683	524	498	421	582	786
50%	714	951	978	751	509	481	450	387	324	326	429	558
25%	606	747	790	526	353	282	263	247	232	245	312	417
10%	429	494	627	426	220	177	219	204	198	168	215	360
5%	408	393	471	265	192	155	209	146	156	136	172	316
2%	392	385	442	240	155	147	146	131	154	125	153	298
0%	363	364	391	233	139	121	120	124	152	98	143	266

Site #: 02374700 Name: Murder Creek at Brewton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 435 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	879	1,069	1,177	986	682	568	518	449	410	375	498	722
100%	2,590	2,405	3,313	3,109	2,129	1,609	1,862	2,007	1,014	1,182	1,468	4,925
98%	1,839	2,144	2,730	2,827	1,996	1,433	1,357	1,178	995	1,132	1,458	2,106
95%	1,532	2,044	2,233	2,384	1,868	1,143	1,034	911	965	727	1,052	1,234
90%	1,490	1,759	2,001	1,892	1,350	1,041	965	790	730	616	752	1,006
75%	1,075	1,351	1,332	1,124	771	753	683	524	498	421	582	786
50%	714	951	978	751	509	481	450	387	324	326	429	558
25%	606	747	790	526	353	282	263	247	232	245	312	417
10%	429	494	627	426	220	177	219	204	198	168	215	360
5%	408	393	471	265	192	155	209	146	156	136	172	316
2%	392	385	442	240	155	147	146	131	154	125	153	298
0%	363	364	391	233	139	121	120	124	152	98	143	266

Monthly Flows (in CFS) for

02374745 - Burnt Corn Creek at State Highway 41 Near Brewton, Ala.

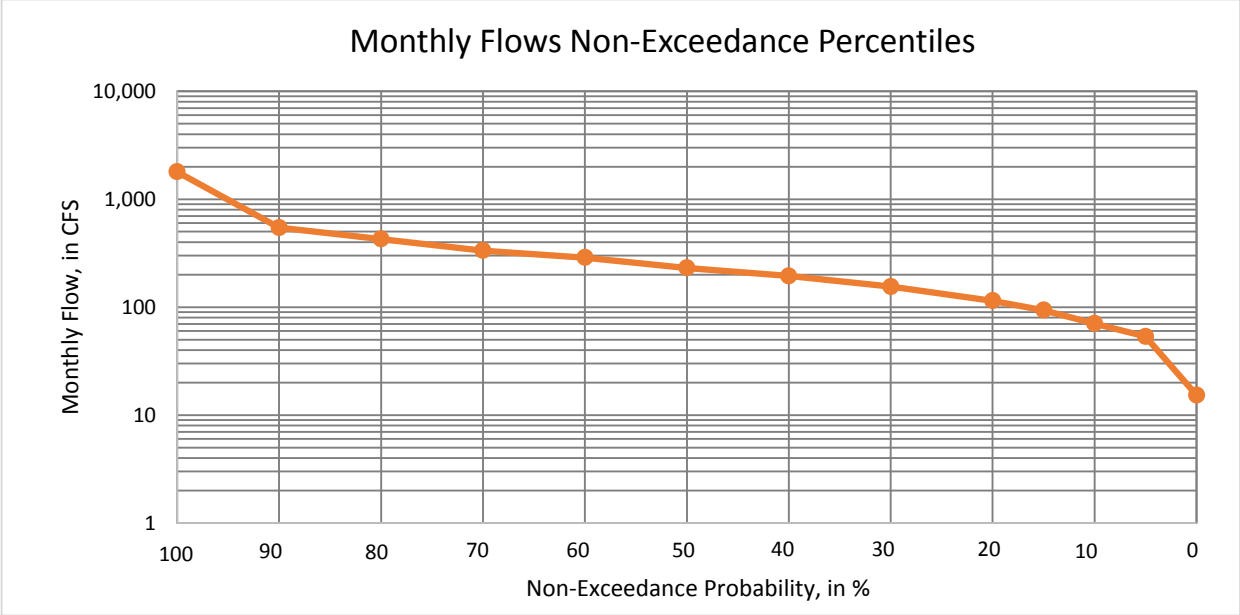
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	464	710	611	1,046	451	415	435	802	433	501	366	519	562
1976	620	510	506	421	786	457	293	193	204	152	308	355	400
1977	403	321	786	475	216	149	194	237	175	143	171	177	288
1978	618	348	364	321	844	578	234	162	99	88	135	250	337
1979	456	683	873	681	300	234	411	243	259	147	244	331	403
1980	414	317	728	1,159	752	662	313	209	227	258	231	216	457
1981	191	623	308	223	202	172	91	87	86	58	70	169	187
1982	287	539	281	312	208	105	254	253	89	73	146	232	230
1983	293	610	799	911	456	480	295	219	193	150	294	402	423
1984	424	426	541	419	553	197	178	372	103	205	174	235	319
1985	237	553	357	201	180	102	300	117	184	165	221	367	247
1986	292	361	466	200	182	102	81	64	85	59	189	227	191
1987	279	427	344	201	182	189	135	160	64	45	155	235	200
1988	427	358	450	223	83	50	118	69	305	124	202	158	213
1989	174	157	348	484	222	443	355	122	110	138	254	379	266
1990	669	815	1,221	452	370	254	218	110	96	102	118	160	380
1991	317	354	503	278	458	306	292	157	175	113	188	213	279
1992	542	673	361	255	139	275	189	151	113	101	605	551	327
1993	505	388	482	414	230	155	265	216	179	170	309	258	297
1994	314	328	320	323	207	245	438	170	133	216	180	217	257
1995	298	456	522	389	197	149	135	335	76	475	293	429	313
1996	632	770	810	650	298	290	220	155	225	127	160	202	376
1997	324	437	386	254	240	245	125	95	63	90	226	321	233
1998	602	450	784	323	133	98	98	70	423	259	150	150	294
1999	211	203	360	200	134	210	222	138	74	127	97	153	177
2000	159	144	145	62	25	44	26	32	38	15	132	197	84
2001	333	297	1,268	361	66	324	118	189	254	152	98	163	302
2002	195	257	362	140	41	56	107	79	228	368	369	399	217
2003	299	363	578	409	370	469	1,016	460	265	119	184	337	407
2004	331	659	266	221	291	469	219	115	451	284	697	483	371
2005	403	359	325	865	275	345	467	308	310	138	118	173	339
2006	308	322	204	71	148	27	26	62	67	99	255	215	149
2007	490	261	178	471	52	42	60	27	77	113	131	261	179
2008	458	544	319	285	103	74	200	297	89	66	88	233	228
2009	287	200	525	591	505	224	88	169	201	179	376	1,790	430
2010	882	785	441	184	242	87	59	74	29	28	82	100	247
2011	177	272	345	174	39	22	59	30	50	30	40	118	112
2012	231	372	235	94	125	118	85	182	293	144	58	150	173
2013	184	882	328	318	121	56	109	73	122	42	43	330	213
2014	268	451	460	672	722	247	68	63	54	70	61	265	282

Non-Exceedance Percentiles

02374745 - Burnt Corn Creek at State Highway 41 Near Brewton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	159	144	145	62	25	22	26	27	29	15	40	100	84
5th %	177	198	203	93	41	41	57	32	49	29	57	148	147
10th %	190	251	263	171	65	50	60	63	62	45	69	152	177
15th %	208	270	304	197	100	56	79	68	67	59	87	159	186
20th %	235	313	320	201	124	84	87	73	75	69	98	168	198
30th %	287	342	345	223	145	104	108	93	88	96	132	201	225
40th %	299	360	361	282	191	152	131	120	101	113	153	216	247
Median	321	407	413	322	212	203	192	156	127	127	177	234	281
60th %	403	450	473	397	241	245	220	169	181	143	194	259	299
70th %	436	541	523	431	299	279	257	198	210	152	235	330	330
80th %	493	630	634	506	452	359	296	238	255	184	293	369	376
90th %	618	716	800	699	570	469	413	310	305	262	366	434	408
Maximum	882	882	1,268	1,159	844	662	1,016	802	451	501	697	1,790	562
Average	375	450	487	393	279	229	215	177	167	148	205	303	285

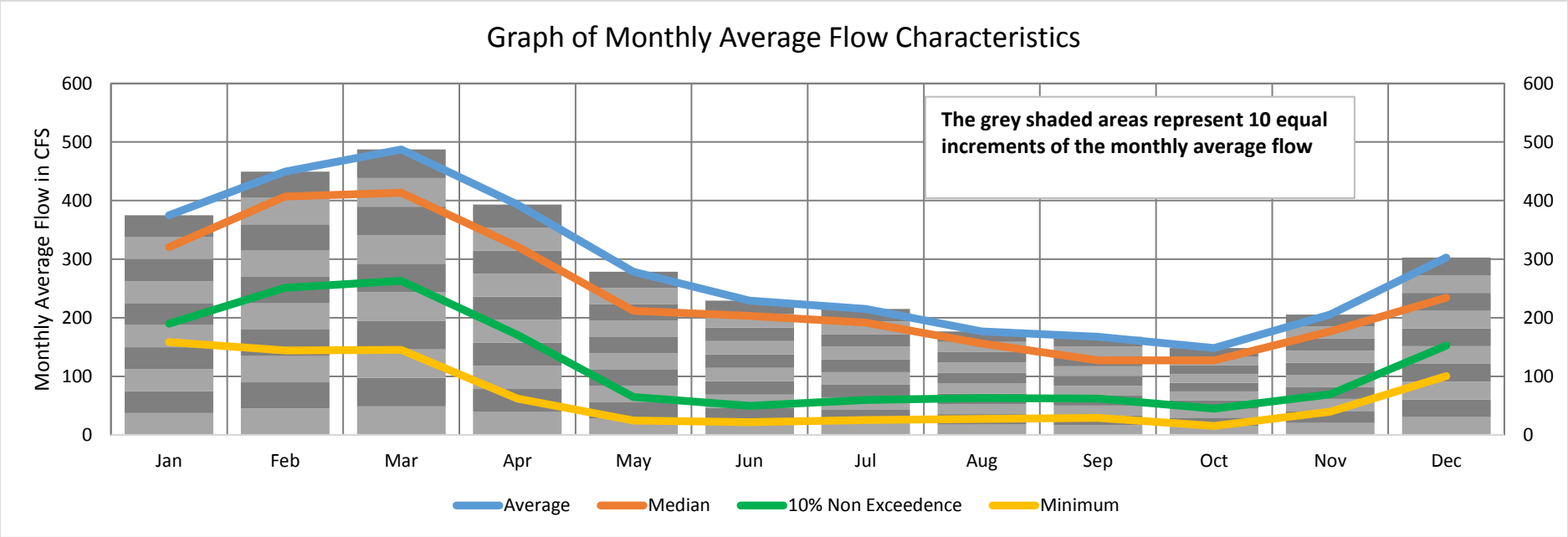
	Flows in CFS
Minimum	15.3
5th %	54
10th %	70
15th %	94
20th %	115
30th %	155
40th %	195
Median	231
60th %	288
70th %	333
80th %	427
90th %	545
Maximum	1,790
Average	286



Q10/Q50	0.30
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.08
Q5/DA	0.29
Q10/DA	0.39
Q15/DA	0.51
Q20/DA	0.63
Q30/DA	0.85
Q40/DA	1.07
Q50/DA	1.27
Q60/DA	1.58
Q70/DA	1.83
Q80/DA	2.35
Q90/DA	2.99
Qmax/DA	9.84

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

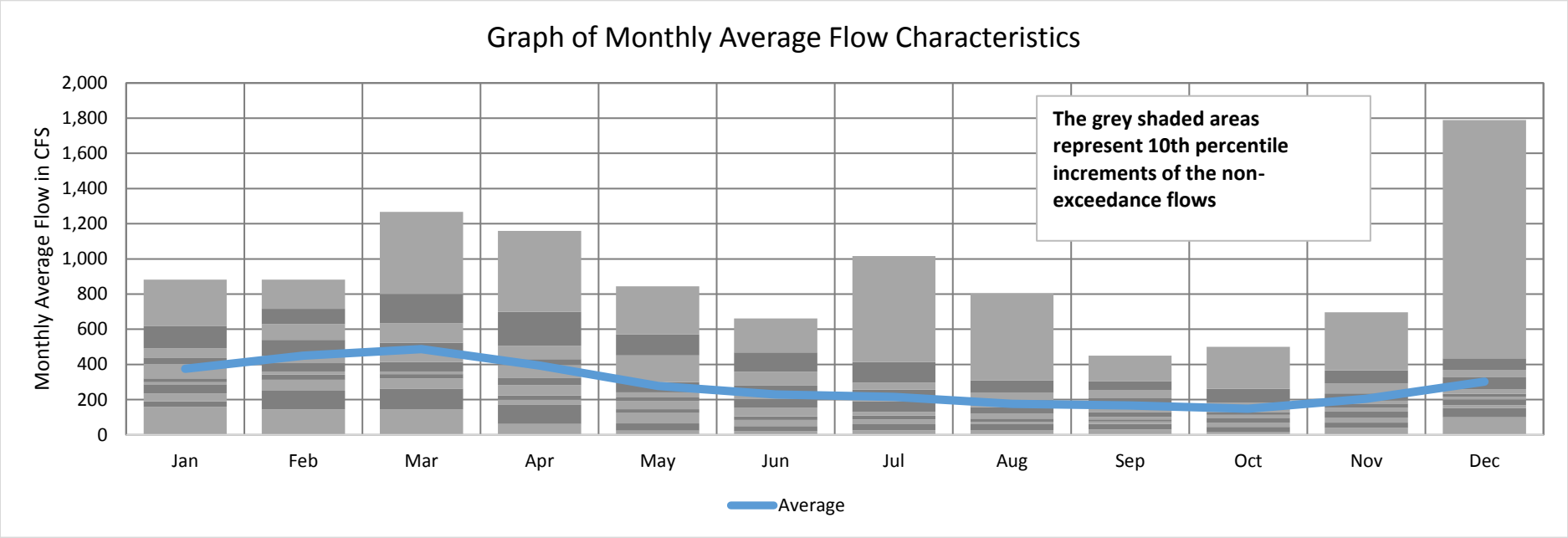
Site #: 02374745 Name: Burnt Corn Creek at State Highway 41 Near Brewton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	375	450	487	393	279	229	215	177	167	148	205	303
100%	882	882	1,268	1,159	844	662	1,016	802	451	501	697	1,790
98%	716	829	1,231	1,071	798	597	588	535	437	481	626	823
95%	634	786	890	918	754	485	439	376	424	374	387	521
90%	618	716	800	699	570	469	413	310	305	262	366	434
75%	460	567	550	472	370	310	292	217	227	166	254	342
50%	321	407	413	322	212	203	192	156	127	127	177	234
25%	276	322	327	216	134	101	96	78	83	84	118	176
10%	190	251	263	171	65	50	60	63	62	45	69	152
5%	177	198	203	93	41	41	57	32	49	29	57	148
2%	170	154	171	69	36	26	26	29	36	25	42	114
0%	159	144	145	62	25	22	26	27	29	15	40	100

Site #: 02374745 Name: Burnt Corn Creek at State Highway 41 Near Brewton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 182 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	375	450	487	393	279	229	215	177	167	148	205	303
100%	882	882	1,268	1,159	844	662	1,016	802	451	501	697	1,790
98%	716	829	1,231	1,071	798	597	588	535	437	481	626	823
95%	634	786	890	918	754	485	439	376	424	374	387	521
90%	618	716	800	699	570	469	413	310	305	262	366	434
75%	460	567	550	472	370	310	292	217	227	166	254	342
50%	321	407	413	322	212	203	192	156	127	127	177	234
25%	276	322	327	216	134	101	96	78	83	84	118	176
10%	190	251	263	171	65	50	60	63	62	45	69	152
5%	177	198	203	93	41	41	57	32	49	29	57	148
2%	170	154	171	69	36	26	26	29	36	25	42	114
0%	159	144	145	62	25	22	26	27	29	15	40	100

Monthly Flows (in CFS) for

02374760 - Conecuh River near Pollard, Alabama (represents streamflow for 03140304)

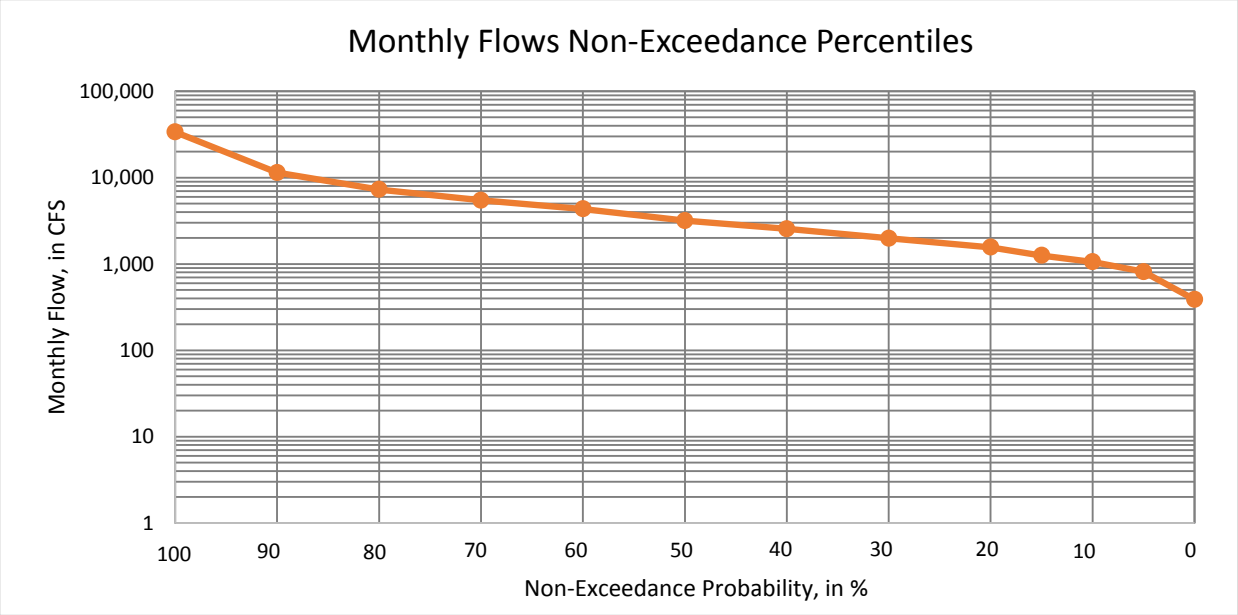
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,275	14,998	14,565	23,806	7,134	6,027	5,108	19,777	9,392	13,487	7,232	7,027	11,370
1976	12,710	8,517	7,346	11,023	13,432	8,505	2,861	2,010	1,869	1,563	2,810	6,887	6,619
1977	7,491	4,165	14,948	9,538	1,972	1,381	1,607	4,330	2,558	1,646	2,636	2,703	4,591
1978	12,304	11,623	8,504	5,859	16,701	10,965	2,816	2,883	1,317	1,144	1,280	2,646	6,479
1979	6,940	15,445	19,392	13,369	4,298	2,468	4,424	2,697	2,594	1,764	2,430	4,018	6,597
1980	5,990	4,623	15,618	27,741	12,797	6,707	2,588	1,627	1,744	2,201	2,461	2,194	7,185
1981	1,860	13,618	4,673	3,727	2,220	1,649	1,008	1,052	1,067	742	962	2,153	2,818
1982	7,054	15,936	5,828	4,758	3,466	1,371	2,606	3,566	1,253	1,065	1,538	3,712	4,274
1983	6,232	15,175	18,063	21,414	6,284	5,463	4,421	2,251	2,349	1,495	2,794	6,727	7,658
1984	8,289	5,479	10,927	6,293	7,715	2,113	2,333	6,192	1,301	1,542	1,681	2,916	4,746
1985	2,899	11,404	8,121	2,742	2,449	1,406	3,122	1,944	1,860	2,013	2,862	6,584	3,908
1986	5,871	6,462	12,830	2,968	1,902	1,415	1,002	900	1,271	877	2,115	4,043	3,464
1987	5,177	8,947	8,320	4,522	2,945	3,296	2,102	2,228	947	709	1,578	2,227	3,550
1988	6,786	6,388	8,945	3,914	1,205	751	1,563	1,121	5,152	2,018	2,092	1,811	3,460
1989	2,174	1,965	4,720	10,010	3,830	11,646	7,903	1,984	1,303	2,032	4,714	5,693	4,832
1990	16,628	14,941	26,734	7,568	6,172	2,905	2,193	1,247	950	1,026	1,118	1,653	6,904
1991	4,255	6,780	9,494	3,853	9,374	4,458	4,168	2,004	1,790	1,090	1,878	2,269	4,278
1992	9,248	13,008	6,305	3,549	1,594	3,418	2,281	2,127	1,442	1,157	7,922	12,650	5,344
1993	8,754	6,618	8,665	7,645	2,938	1,518	2,376	1,985	1,804	1,464	3,461	3,204	4,189
1994	4,618	6,219	5,566	5,271	2,456	4,358	16,249	5,243	2,208	3,405	2,298	3,264	5,104
1995	5,002	12,151	11,346	6,618	3,892	2,398	1,756	3,973	1,058	11,278	6,058	8,688	6,159
1996	9,680	14,089	11,931	15,874	5,264	3,727	2,688	2,310	3,380	1,784	1,769	2,615	6,196
1997	5,083	8,437	6,728	3,989	4,728	4,237	2,647	1,902	949	1,189	3,617	9,105	4,364
1998	15,689	11,464	24,604	7,362	2,776	1,498	1,882	1,517	6,266	17,368	3,068	2,734	8,029
1999	4,316	4,294	8,712	3,030	3,195	3,678	7,686	2,048	1,190	1,213	1,077	1,702	3,519
2000	2,114	2,021	2,840	1,570	641	587	448	546	574	387	1,167	1,839	1,224
2001	4,183	3,442	23,824	7,331	1,894	6,142	2,099	3,798	2,873	1,823	1,820	2,899	5,199
2002	2,930	3,907	5,962	3,047	1,101	946	1,343	1,009	1,702	3,847	5,343	5,749	3,070
2003	5,008	4,955	10,040	8,521	5,353	8,066	11,906	7,041	4,022	2,062	2,503	4,462	6,176
2004	4,377	9,532	5,029	2,523	3,170	4,469	3,174	1,763	5,510	3,732	7,277	6,644	4,725
2005	4,989	5,644	5,040	18,490	4,518	4,239	6,324	7,249	4,319	2,442	2,150	3,422	5,719
2006	4,368	4,799	4,363	1,937	2,934	910	702	813	705	872	2,643	1,615	2,208
2007	4,429	3,030	2,799	5,585	864	645	864	499	704	1,042	1,205	2,747	2,026
2008	6,638	8,633	5,448	4,786	1,383	749	1,075	3,177	1,895	764	851	4,853	3,325
2009	4,599	2,583	8,462	15,501	7,036	4,286	1,624	2,628	4,498	3,013	7,342	33,725	7,986
2010	18,022	17,330	11,945	3,582	4,539	1,801	1,168	1,494	845	742	1,264	1,674	5,307
2011	2,307	4,542	5,910	2,879	791	532	955	596	792	559	625	1,584	1,824
2012	2,299	4,666	2,778	1,946	1,371	2,046	974	1,648	3,118	1,127	719	1,860	2,025
2013	2,753	13,923	8,765	5,405	2,205	1,525	4,468	4,881	1,871	1,059	955	3,460	4,213
2014	4,817	7,909	6,607	17,945	11,278	3,616	1,613	1,190	952	1,229	1,065	3,141	5,082

Non-Exceedance Percentiles

02374760 - Conecuh River near Pollard, Alabama (represents streamflow for 03140304)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584	1,224
5th %	2,171	2,555	2,837	1,945	861	642	855	594	705	702	844	1,651	2,015
10th %	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699	2,190
15th %	2,877	4,127	4,983	2,955	1,381	941	1,007	1,046	949	856	1,075	1,835	3,032
20th %	3,933	4,492	5,366	3,044	1,834	1,379	1,149	1,176	951	996	1,157	2,095	3,433
30th %	4,374	4,908	5,946	3,816	2,215	1,512	1,611	1,594	1,234	1,083	1,461	2,511	3,801
40th %	4,737	6,320	7,098	4,664	2,871	1,948	2,012	1,928	1,311	1,176	1,800	2,741	4,276
Median	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172	4,736
60th %	6,087	8,759	8,837	6,903	4,055	3,641	2,622	2,237	1,870	1,693	2,478	3,561	5,142
70th %	6,974	11,512	11,053	7,908	4,889	4,253	2,939	2,753	2,412	2,015	2,799	4,579	5,851
80th %	8,382	13,679	13,177	11,493	6,435	4,667	4,421	3,833	3,171	2,249	3,492	6,596	6,503
90th %	12,344	15,016	18,196	17,999	9,564	6,843	6,460	5,338	4,564	3,743	6,175	7,193	7,232
Maximum	18,022	17,330	26,734	27,741	16,701	11,646	16,249	19,777	9,392	17,368	7,922	33,725	11,370
Average	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722	4,894

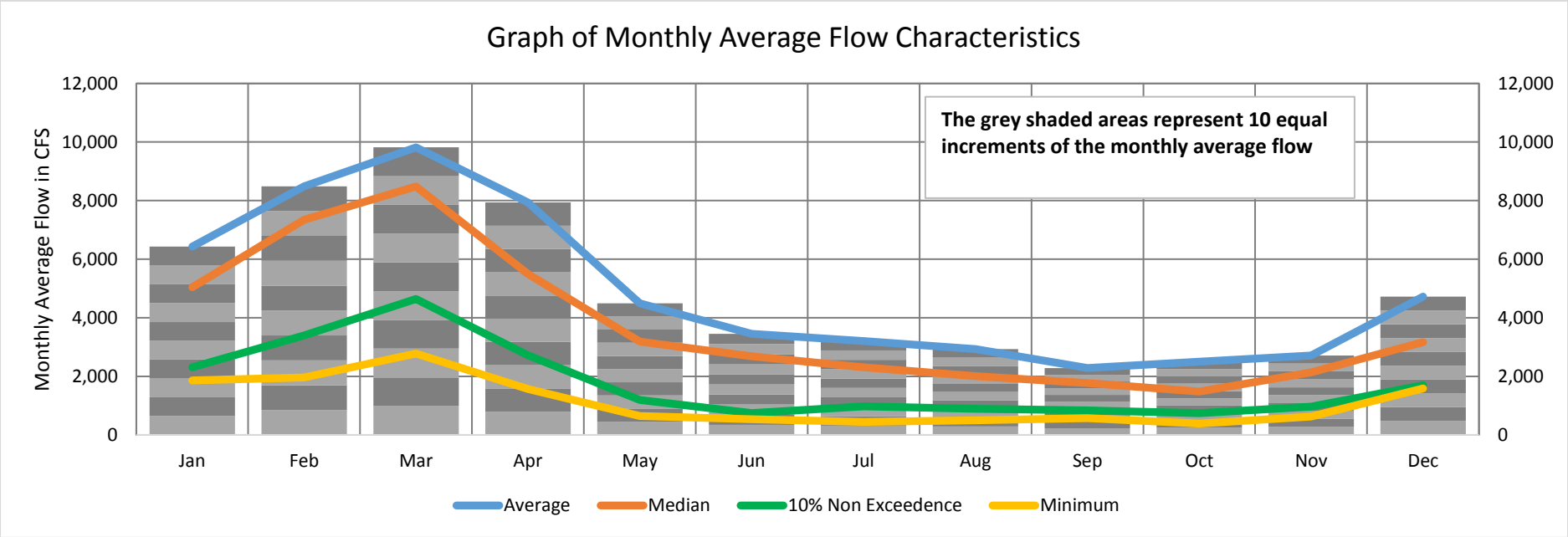
	Flows in CFS
Minimum	387.1
5th %	811
10th %	1,058
15th %	1,252
20th %	1,559
30th %	1,980
40th %	2,544
Median	3,172
60th %	4,341
70th %	5,468
80th %	7,288
90th %	11,410
Maximum	33,725
Average	4,914



Q10/Q50	0.33
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.12
Q5/DA	0.24
Q10/DA	0.32
Q15/DA	0.38
Q20/DA	0.47
Q30/DA	0.59
Q40/DA	0.76
Q50/DA	0.95
Q60/DA	1.30
Q70/DA	1.64
Q80/DA	2.19
Q90/DA	3.42
Qmax/DA	10.11

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

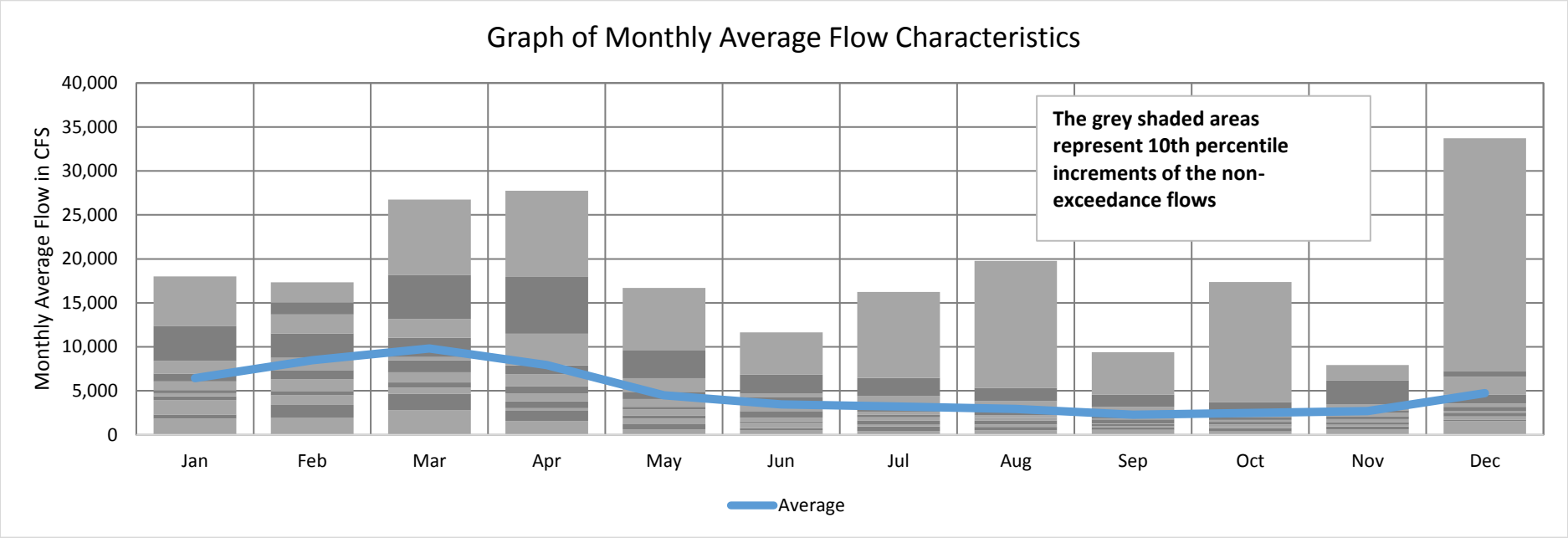
Site #: 02374760 Name: Conecuh River near Pollard, Alabama (represents streamflow for 03140304)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722
100%	18,022	17,330	26,734	27,741	16,701	11,646	16,249	19,777	9,392	17,368	7,922	33,725
98%	16,935	16,243	25,073	24,672	14,152	11,115	12,861	10,005	6,954	14,341	7,469	17,287
95%	15,736	15,470	23,863	21,534	12,828	8,628	8,103	7,051	5,547	11,389	7,280	9,282
90%	12,344	15,016	18,196	17,999	9,564	6,843	6,460	5,338	4,564	3,743	6,175	7,193
75%	7,687	12,365	11,935	9,656	5,558	4,383	3,422	3,274	2,664	2,039	2,913	5,707
50%	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172
25%	4,301	4,655	5,762	3,574	1,955	1,413	1,508	1,432	1,065	1,054	1,249	2,219
10%	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699
5%	2,171	2,555	2,837	1,945	861	642	855	594	705	702	844	1,651
2%	2,058	2,009	2,794	1,857	758	574	646	536	675	521	698	1,608
0%	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584

Site #: 02374760 Name: Conecuh River near Pollard, Alabama (represents streamflow for 03140304)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,335 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,429	8,492	9,817	7,937	4,495	3,448	3,203	2,931	2,285	2,499	2,709	4,722
100%	18,022	17,330	26,734	27,741	16,701	11,646	16,249	19,777	9,392	17,368	7,922	33,725
98%	16,935	16,243	25,073	24,672	14,152	11,115	12,861	10,005	6,954	14,341	7,469	17,287
95%	15,736	15,470	23,863	21,534	12,828	8,628	8,103	7,051	5,547	11,389	7,280	9,282
90%	12,344	15,016	18,196	17,999	9,564	6,843	6,460	5,338	4,564	3,743	6,175	7,193
75%	7,687	12,365	11,935	9,656	5,558	4,383	3,422	3,274	2,664	2,039	2,913	5,707
50%	5,045	7,345	8,483	5,495	3,183	2,687	2,307	2,007	1,767	1,479	2,132	3,172
25%	4,301	4,655	5,762	3,574	1,955	1,413	1,508	1,432	1,065	1,054	1,249	2,219
10%	2,306	3,401	4,642	2,720	1,195	751	972	891	839	742	961	1,699
5%	2,171	2,555	2,837	1,945	861	642	855	594	705	702	844	1,651
2%	2,058	2,009	2,794	1,857	758	574	646	536	675	521	698	1,608
0%	1,860	1,965	2,778	1,570	641	532	448	499	574	387	625	1,584

Monthly Flows (in CFS) for
02374950 - Big Escambia Creek near Stanley Crossroads, Ala.

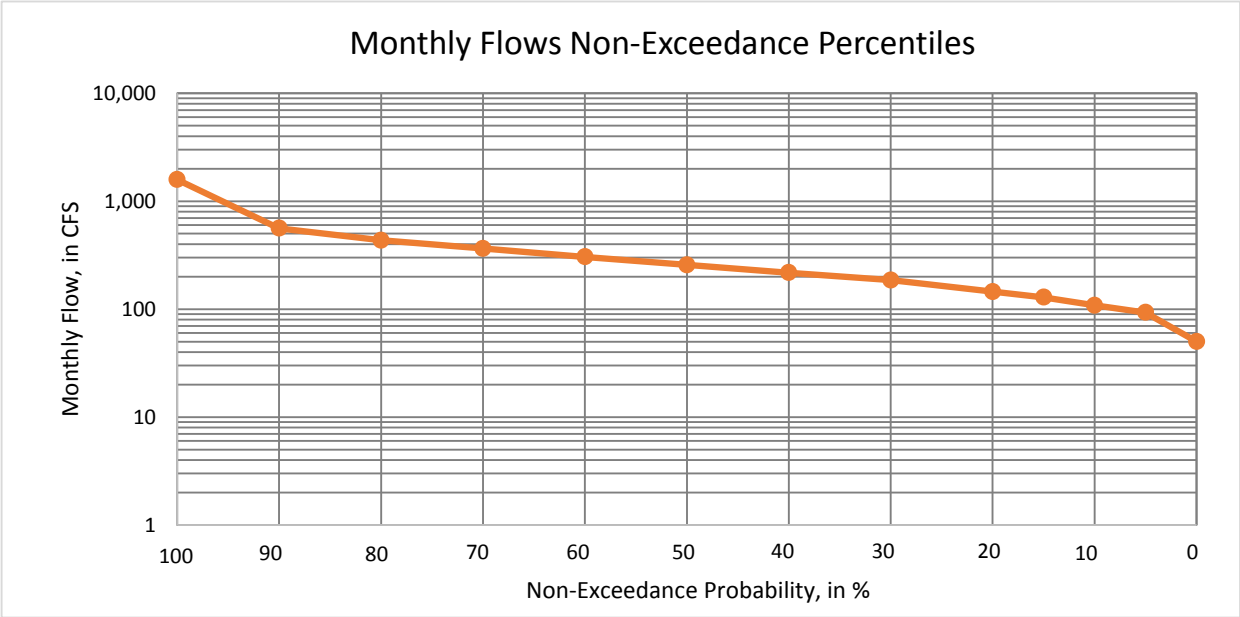
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	472	713	615	1,059	459	425	444	807	443	507	380	525	570
1976	623	516	512	432	790	465	312	222	232	185	326	369	415
1977	414	338	790	483	242	182	223	261	206	177	202	207	311
1978	621	363	378	338	849	583	259	194	137	126	170	273	358
1979	464	686	879	684	319	259	421	267	282	180	267	347	419
1980	424	335	731	1,179	756	665	330	236	252	280	256	243	474
1981	220	626	326	249	230	203	129	125	124	98	109	200	217
1982	306	544	301	330	235	142	277	276	127	112	179	257	255
1983	312	614	803	919	464	487	314	245	222	183	314	413	439
1984	434	436	546	429	558	226	208	385	140	232	204	260	338
1985	261	558	371	229	210	139	319	153	214	196	247	380	271
1986	311	375	474	228	212	139	120	103	124	98	218	252	220
1987	299	437	359	229	212	218	169	192	103	84	188	260	228
1988	437	372	459	248	121	89	154	108	323	159	230	190	240
1989	204	189	363	491	247	452	370	158	147	172	277	392	289
1990	672	819	1,246	460	383	277	244	146	133	139	154	192	404
1991	334	368	509	299	466	324	311	189	205	150	217	239	301
1992	547	676	375	278	173	296	218	184	149	138	609	555	347
1993	511	400	489	424	255	187	286	243	209	201	327	280	317
1994	331	344	337	340	234	269	447	201	167	243	210	243	280
1995	317	464	528	401	225	182	169	351	114	483	312	439	332
1996	635	773	814	653	317	309	246	187	251	162	192	230	395
1997	341	447	399	277	264	268	160	133	102	128	252	338	258
1998	606	458	788	340	167	136	135	109	433	281	183	183	318
1999	238	230	374	207	205	244	261	120	98	131	143	174	202
2000	186	157	172	107	69	81	66	62	69	50	174	205	116
2001	262	250	1,062	293	103	368	259	185	215	110	102	152	281
2002	172	211	318	133	59	61	79	77	304	411	396	433	221
2003	315	373	590	430	532	527	775	367	291	166	186	283	404
2004	308	589	257	213	309	395	398	179	746	292	460	435	379
2005	372	376	318	866	318	384	735	446	414	208	143	218	399
2006	355	372	205	102	215	83	91	104	115	135	346	270	198
2007	502	287	232	368	101	103	103	71	97	107	131	249	195
2008	395	536	358	272	148	93	119	347	164	99	108	186	234
2009	278	208	554	592	438	168	134	197	205	186	304	1,583	406
2010	924	721	407	221	298	150	116	109	79	74	119	134	277
2011	168	273	351	175	80	58	108	68	93	65	80	132	137
2012	220	391	379	211	196	264	118	163	296	174	98	183	223
2013	225	970	300	395	182	129	145	135	108	77	81	513	267
2014	383	582	584	783	1,167	327	144	114	125	101	108	298	392

Non-Exceedance Percentiles

02374950 - Big Escambia Creek near Stanley Crossroads, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	168	157	172	102	59	58	66	62	69	50	80	132	116
5th %	185	207	231	132	79	80	90	71	92	74	97	151	193
10th %	218	228	296	204	103	89	108	101	98	83	108	182	202
15th %	224	270	315	212	144	102	117	107	103	98	109	186	220
20th %	256	325	324	226	172	134	120	109	113	101	128	191	223
30th %	304	367	359	249	209	148	142	131	125	122	165	214	251
40th %	314	374	375	287	221	185	165	156	138	137	185	243	275
Median	338	418	403	339	239	235	221	185	166	161	203	258	295
60th %	388	461	497	397	278	268	259	193	207	175	223	276	323
70th %	435	548	549	430	318	314	294	226	225	185	259	341	364
80th %	504	616	638	511	460	386	321	262	283	213	313	396	400
90th %	621	714	804	791	577	468	424	353	332	283	349	446	415
Maximum	924	970	1,246	1,179	1,167	665	775	807	746	507	609	1,583	570
Average	385	459	496	409	320	259	248	206	206	177	225	318	308

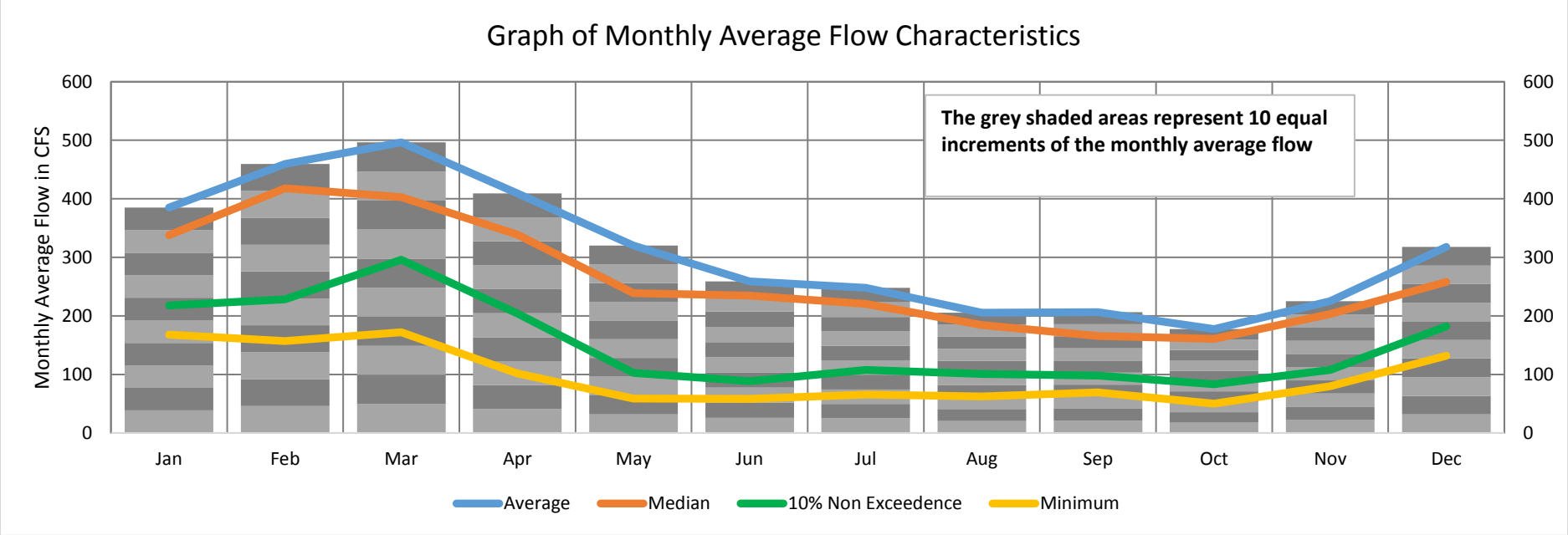
	Flows in CFS
Minimum	50.1
5th %	93
10th %	108
15th %	129
20th %	145
30th %	185
40th %	218
Median	256
60th %	305
70th %	364
80th %	434
90th %	560
Maximum	1,583
Average	309



Q10/Q50	0.42
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.26
Q5/DA	0.48
Q10/DA	0.56
Q15/DA	0.67
Q20/DA	0.75
Q30/DA	0.96
Q40/DA	1.13
Q50/DA	1.33
Q60/DA	1.58
Q70/DA	1.89
Q80/DA	2.25
Q90/DA	2.90
Qmax/DA	8.20

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

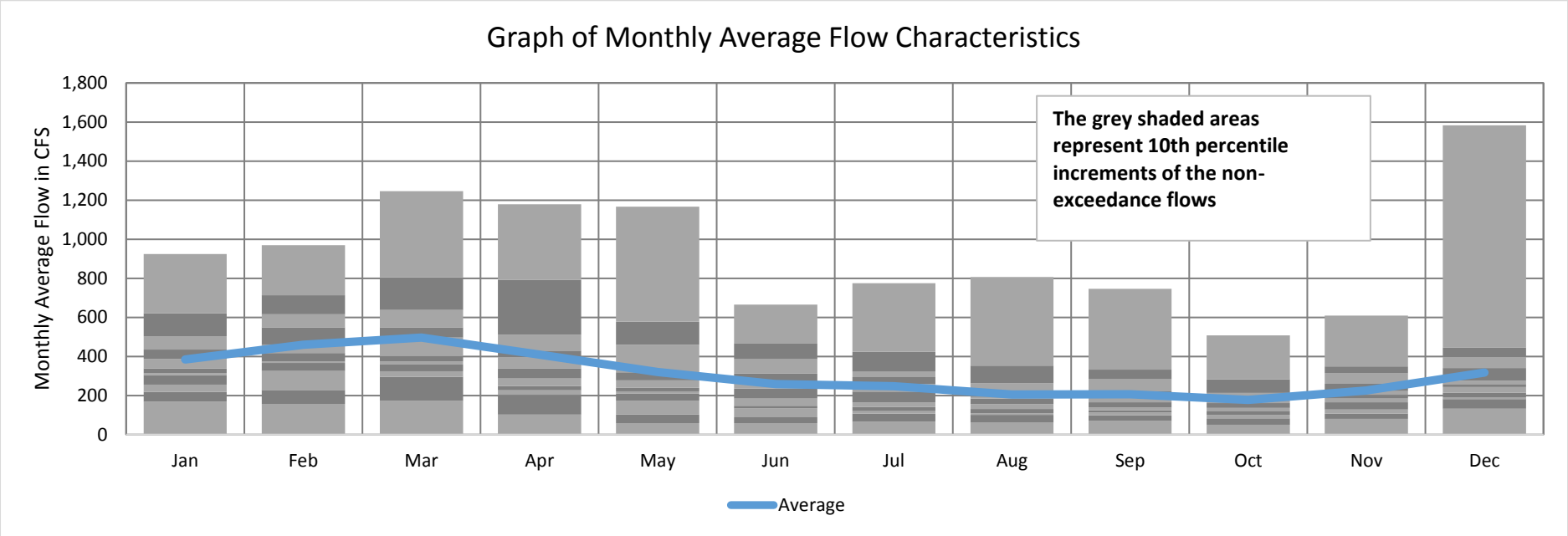
Site #: 02374950 Name: Big Escambia Creek near Stanley Crossroads, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	385	459	496	409	320	259	248	206	206	177	225	318
100%	924	970	1,246	1,179	1,167	665	775	807	746	507	609	1,583
98%	727	852	1,102	1,086	919	601	744	526	509	488	493	782
95%	637	776	888	926	793	530	461	388	434	415	399	526
90%	621	714	804	791	577	468	424	353	332	283	349	446
75%	466	584	586	466	397	337	313	243	251	197	284	372
50%	338	418	403	339	239	235	221	185	166	161	203	258
25%	274	343	348	229	193	139	133	119	121	109	143	204
10%	218	228	296	204	103	89	108	101	98	83	108	182
5%	185	207	231	132	79	80	90	71	92	74	97	151
2%	171	182	198	106	66	60	76	67	76	62	81	133
0%	168	157	172	102	59	58	66	62	69	50	80	132

Site #: 02374950 Name: Big Escambia Creek near Stanley Crossroads, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 193 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	385	459	496	409	320	259	248	206	206	177	225	318
100%	924	970	1,246	1,179	1,167	665	775	807	746	507	609	1,583
98%	727	852	1,102	1,086	919	601	744	526	509	488	493	782
95%	637	776	888	926	793	530	461	388	434	415	399	526
90%	621	714	804	791	577	468	424	353	332	283	349	446
75%	466	584	586	466	397	337	313	243	251	197	284	372
50%	338	418	403	339	239	235	221	185	166	161	203	258
25%	274	343	348	229	193	139	133	119	121	109	143	204
10%	218	228	296	204	103	89	108	101	98	83	108	182
5%	185	207	231	132	79	80	90	71	92	74	97	151
2%	171	182	198	106	66	60	76	67	76	62	81	133
0%	168	157	172	102	59	58	66	62	69	50	80	132

Monthly Flows (in CFS) for

02375000 - Big Escambia Creek at Flomaton, Ala. (represents streamflow for 03140305)

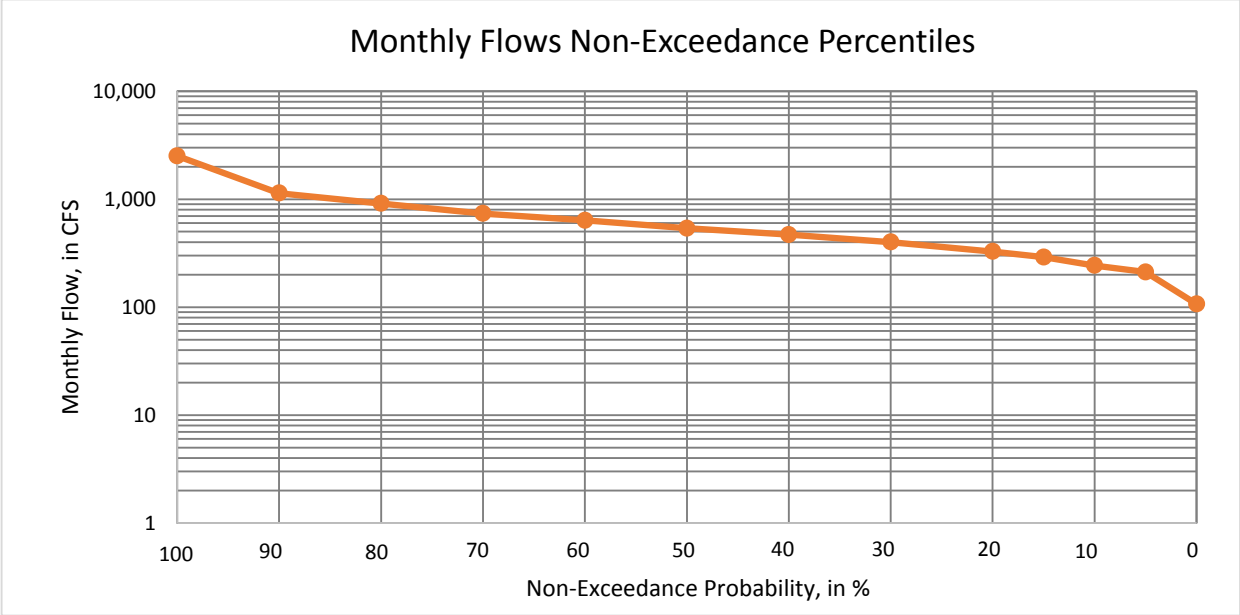
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	993	1,453	1,268	2,074	967	900	937	1,625	934	1,061	808	1,096	1,174
1976	1,284	1,079	1,071	912	1,594	979	669	478	500	399	698	786	870
1977	877	722	1,595	1,014	523	393	480	563	444	381	436	447	657
1978	1,281	773	804	722	1,702	1,207	557	418	292	269	365	587	749
1979	976	1,402	1,756	1,398	683	557	892	574	605	388	575	742	876
1980	897	716	1,487	2,280	1,532	1,363	706	509	543	602	551	523	976
1981	474	1,290	698	537	495	438	276	266	265	205	231	432	462
1982	657	1,133	646	705	507	305	595	594	271	238	386	553	546
1983	670	1,267	1,619	1,827	977	1,022	673	528	478	395	672	875	913
1984	917	921	1,137	907	1,159	486	450	819	299	501	441	559	717
1985	562	1,160	791	494	453	297	683	328	462	423	533	809	580
1986	667	797	997	491	457	298	255	218	264	206	470	544	470
1987	642	923	766	494	456	470	364	414	218	175	404	559	488
1988	923	792	966	535	259	187	331	229	692	343	496	410	512
1989	441	408	774	1,030	533	952	788	339	316	370	596	832	615
1990	1,376	1,648	2,393	969	815	596	526	314	285	298	331	413	827
1991	715	785	1,065	642	981	693	667	408	442	321	468	516	642
1992	1,139	1,384	799	597	372	635	471	397	320	296	1,257	1,155	730
1993	1,069	848	1,026	898	549	403	616	523	451	433	700	602	676
1994	709	735	721	726	505	578	942	434	360	523	453	524	601
1995	679	976	1,102	852	486	393	365	750	243	1,013	670	926	704
1996	1,307	1,564	1,639	1,340	679	663	530	404	540	349	415	496	822
1997	729	942	846	596	569	577	344	284	215	273	542	723	551
1998	1,251	965	1,591	727	360	290	290	231	916	605	395	394	666
1999	513	497	796	448	442	525	562	256	207	280	307	374	434
2000	402	338	371	227	140	179	113	107	137	114	321	402	237
2001	466	447	2,313	777	347	904	385	583	704	544	498	590	715
2002	589	625	875	524	277	209	346	241	374	654	624	776	509
2003	631	860	1,121	879	725	970	1,647	711	473	386	504	648	797
2004	636	1,073	531	371	435	503	367	272	827	892	1,291	1,012	680
2005	932	961	755	1,977	692	1,261	1,449	1,073	912	518	544	617	972
2006	840	873	554	306	404	216	216	243	216	302	598	407	429
2007	751	436	442	472	168	165	220	147	154	239	253	472	326
2008	675	785	562	478	251	188	223	417	230	176	230	453	387
2009	567	352	980	994	928	362	294	384	525	408	730	2,515	758
2010	1,804	1,615	1,239	657	778	431	324	363	228	221	334	382	693
2011	417	713	700	381	179	134	232	160	197	152	211	301	312
2012	347	621	486	261	273	310	219	388	449	239	177	381	344
2013	388	1,644	729	825	470	357	424	364	308	221	268	852	563
2014	643	935	864	1,352	1,102	560	313	291	318	286	342	604	632

Non-Exceedance Percentiles

02375000 - Big Escambia Creek at Flomaton, Ala. (represents streamflow for 03140305)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	347	338	371	227	140	134	113	107	137	114	177	301	237
5th %	401	405	484	303	179	179	219	159	195	174	229	381	326
10th %	439	446	552	380	258	188	223	228	215	202	250	393	383
15th %	472	603	634	469	277	215	252	239	217	218	301	406	433
20th %	552	695	700	489	357	296	287	253	229	234	329	413	469
30th %	635	762	763	532	440	343	329	289	269	272	380	466	536
40th %	663	795	798	624	465	399	364	354	305	297	427	523	592
Median	694	897	870	724	506	478	437	393	340	346	469	559	649
60th %	787	950	1,008	836	557	558	528	415	446	386	515	603	686
70th %	919	1,075	1,108	909	702	608	601	487	475	412	559	729	721
80th %	1,008	1,271	1,312	1,017	936	900	675	565	540	519	633	814	802
90th %	1,281	1,464	1,621	1,441	1,107	983	896	715	716	610	703	935	879
Maximum	1,804	1,648	2,393	2,280	1,702	1,363	1,647	1,625	934	1,061	1,291	2,515	1,174
Average	796	936	1,022	842	631	549	519	441	415	392	503	657	640

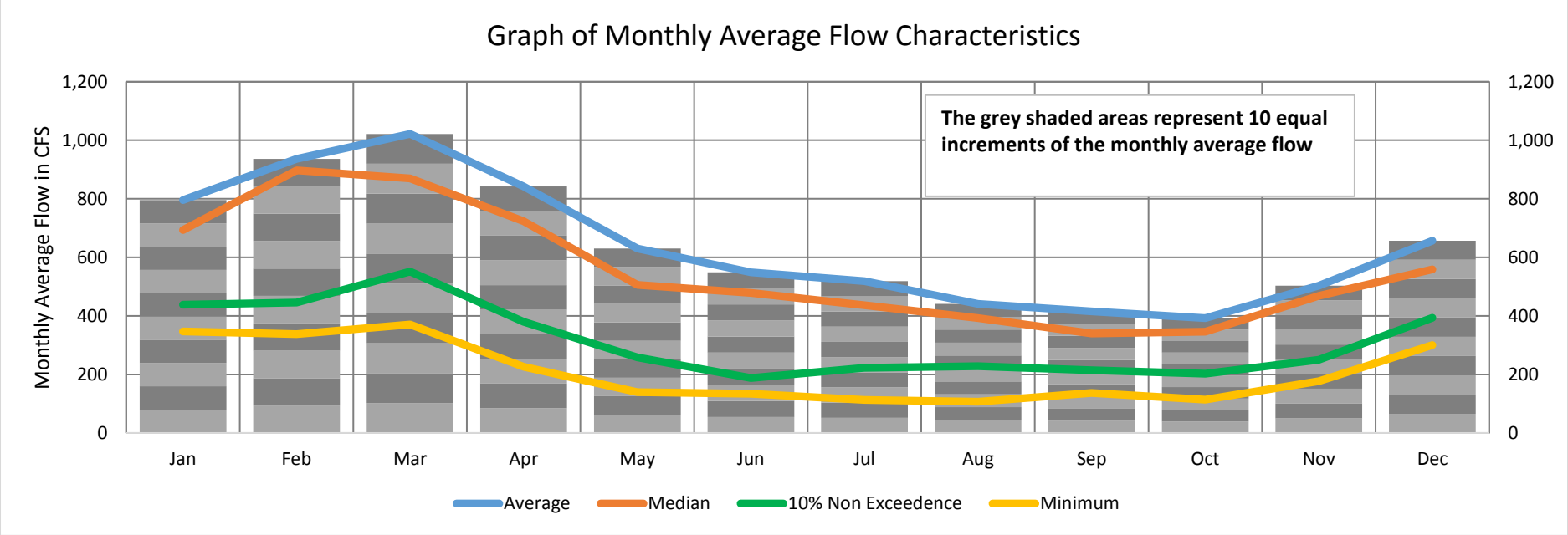
	Flows in CFS
Minimum	106.8
5th %	211
10th %	243
15th %	290
20th %	327
30th %	401
40th %	470
Median	538
60th %	636
70th %	737
80th %	913
90th %	1,137
Maximum	2,515
Average	642



Q10/Q50	0.45
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.32
Q5/DA	0.64
Q10/DA	0.74
Q15/DA	0.88
Q20/DA	0.99
Q30/DA	1.21
Q40/DA	1.42
Q50/DA	1.63
Q60/DA	1.93
Q70/DA	2.23
Q80/DA	2.77
Q90/DA	3.45
Qmax/DA	7.62

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

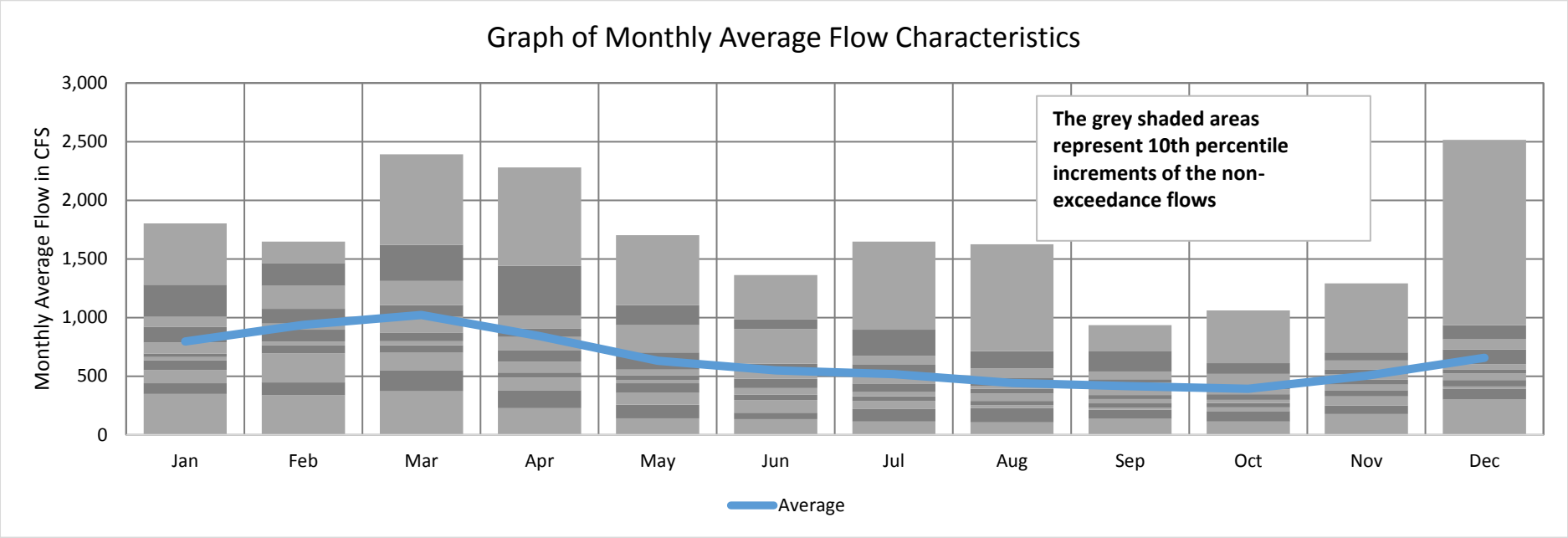
Site #: 02375000 Name: Big Escambia Creek at Flomaton, Ala. (represents streamflow for 03140305)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	796	936	1,022	842	631	549	519	441	415	392	503	657
100%	1,804	1,648	2,393	2,280	1,702	1,363	1,647	1,625	934	1,061	1,291	2,515
98%	1,470	1,644	2,331	2,119	1,618	1,283	1,493	1,194	920	1,024	1,265	1,454
95%	1,310	1,616	1,784	1,982	1,535	1,210	968	832	913	898	830	1,099
90%	1,281	1,464	1,621	1,441	1,107	983	896	715	716	610	703	935
75%	943	1,140	1,162	975	787	671	668	524	506	450	596	779
50%	694	897	870	724	506	478	437	393	340	346	469	559
25%	583	721	727	494	396	303	308	271	259	239	340	444
10%	439	446	552	380	258	188	223	228	215	202	250	393
5%	401	405	484	303	179	179	219	159	195	174	229	381
2%	379	349	426	253	162	158	193	138	151	144	204	358
0%	347	338	371	227	140	134	113	107	137	114	177	301

Site #: 02375000 Name: Big Escambia Creek at Flomaton, Ala. (represents streamflow for 03140305)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 330 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	796	936	1,022	842	631	549	519	441	415	392	503	657
100%	1,804	1,648	2,393	2,280	1,702	1,363	1,647	1,625	934	1,061	1,291	2,515
98%	1,470	1,644	2,331	2,119	1,618	1,283	1,493	1,194	920	1,024	1,265	1,454
95%	1,310	1,616	1,784	1,982	1,535	1,210	968	832	913	898	830	1,099
90%	1,281	1,464	1,621	1,441	1,107	983	896	715	716	610	703	935
75%	943	1,140	1,162	975	787	671	668	524	506	450	596	779
50%	694	897	870	724	506	478	437	393	340	346	469	559
25%	583	721	727	494	396	303	308	271	259	239	340	444
10%	439	446	552	380	258	188	223	228	215	202	250	393
5%	401	405	484	303	179	179	219	159	195	174	229	381
2%	379	349	426	253	162	158	193	138	151	144	204	358
0%	347	338	371	227	140	134	113	107	137	114	177	301

Monthly Flows (in CFS) for

02375500 - Escambia River near Century, Fla.

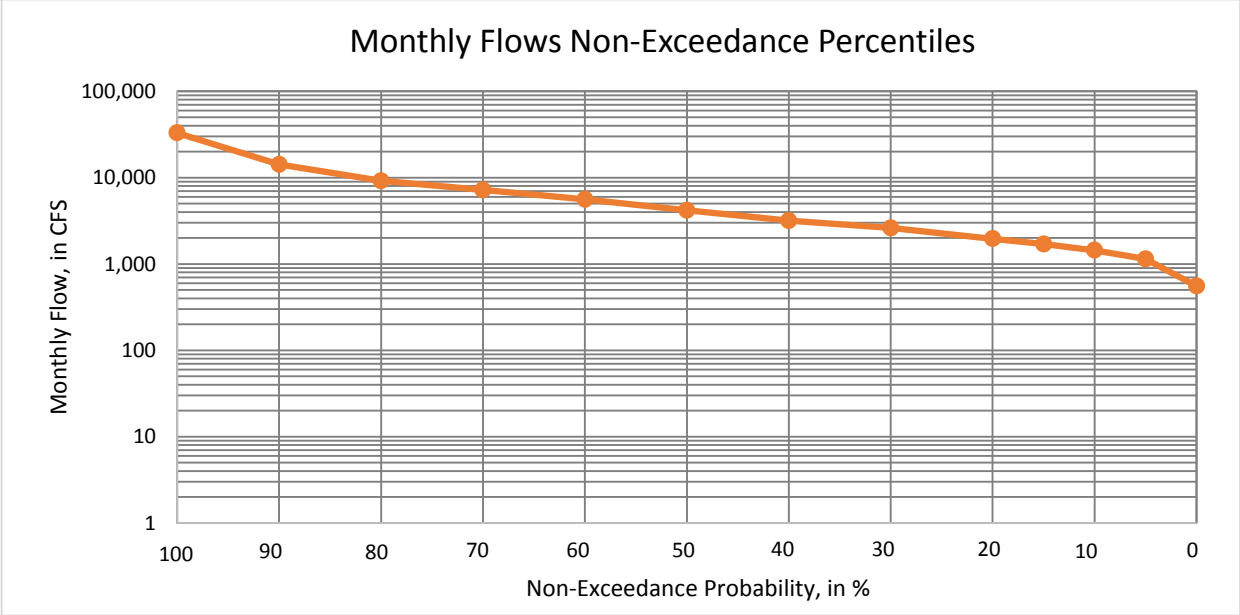
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	10,350	18,020	17,940	27,280	8,841	7,454	6,027	23,560	12,010	17,070	9,378	8,354	13,821
1976	15,510	10,460	8,865	14,230	15,630	10,700	3,345	2,487	2,196	1,952	3,187	8,952	8,113
1977	9,565	5,201	17,580	12,010	2,306	1,657	1,808	5,845	3,453	2,139	3,594	3,670	5,746
1978	14,990	15,340	11,130	7,664	19,520	13,420	3,571	4,020	1,807	1,571	1,557	3,223	8,114
1979	8,545	18,720	22,740	16,070	5,500	3,020	5,139	3,340	3,092	2,316	2,911	4,930	7,958
1980	7,407	5,896	18,720	31,430	14,970	7,159	2,808	1,762	1,868	2,466	3,023	2,668	8,341
1981	2,251	16,670	6,014	5,015	2,782	1,993	1,314	1,416	1,445	1,015	1,344	2,839	3,581
1982	9,494	20,010	7,804	6,120	4,694	1,868	3,139	4,630	1,753	1,510	1,944	4,952	5,572
1983	8,318	18,720	21,450	25,040	7,620	6,317	5,705	2,746	3,034	1,848	3,231	8,506	9,301
1984	10,560	6,611	13,550	7,812	9,146	2,632	3,081	7,895	1,763	1,640	2,039	3,721	5,890
1985	3,687	14,120	10,640	3,615	3,257	1,947	3,717	2,760	2,283	2,635	3,704	8,471	5,019
1986	7,816	8,330	16,380	3,973	2,363	1,960	1,355	1,266	1,801	1,255	2,679	5,469	4,544
1987	6,885	11,440	10,970	6,290	4,023	4,527	2,926	3,003	1,353	1,030	1,962	2,625	4,711
1988	8,467	8,238	11,330	5,298	1,700	1,077	2,126	1,629	6,726	2,843	2,573	2,338	4,505
1989	2,848	2,596	5,889	12,600	5,177	14,950	10,350	2,796	1,725	2,797	6,327	7,149	6,268
1990	20,280	17,430	29,910	9,439	7,875	3,609	2,659	1,633	1,186	1,287	1,364	2,066	8,200
1991	5,353	8,806	11,820	4,941	11,870	5,710	5,347	2,657	2,217	1,340	2,296	2,809	5,421
1992	11,300	15,640	8,105	4,596	2,075	4,298	2,943	2,884	1,951	1,522	9,168	15,760	6,632
1993	10,810	8,421	10,800	9,726	3,779	1,864	2,715	2,327	2,220	1,691	4,196	4,055	5,199
1994	5,906	8,140	7,249	6,813	3,136	5,849	20,850	7,466	3,105	4,561	3,018	4,346	6,713
1995	6,541	15,550	14,190	8,413	5,383	3,326	2,361	4,842	1,485	14,320	8,073	11,080	7,930
1996	11,440	16,560	13,540	19,420	6,919	4,697	3,437	3,158	4,483	2,446	2,255	3,410	7,573
1997	6,533	10,700	8,581	5,259	6,413	5,673	3,832	2,796	1,361	1,637	4,835	12,130	5,789
1998	19,410	14,680	29,510	9,754	3,994	2,119	2,751	2,292	7,753	22,980	4,359	3,847	10,298
1999	5,945	5,950	11,430	4,149	3,965	4,419	9,229	2,606	1,680	2,144	1,790	2,565	4,663
2000	2,988	2,917	3,762	2,123	893	832	686	778	789	555	1,792	2,713	1,730
2001	5,441	4,615	32,840	9,655	2,262	7,437	3,063	4,787	3,658	2,265	2,190	3,924	6,875
2002	3,785	4,975	7,352	3,996	1,354	1,169	1,609	1,444	2,890	5,220	7,309	7,577	4,051
2003	6,905	6,254	13,690	10,690	7,564	9,960	15,500	8,810	5,207	2,608	3,034	5,705	8,017
2004	5,744	12,630	6,938	2,964	4,507	6,467	4,941	2,562	11,610	6,201	9,389	9,432	6,895
2005	7,419	7,948	6,965	25,540	5,884	5,333	8,233	8,661	6,124	4,373	2,520	4,392	7,758
2006	5,542	5,992	5,712	2,340	3,623	1,157	1,040	1,265	1,115	1,354	3,789	2,332	2,923
2007	6,077	4,328	3,846	8,211	1,659	1,232	1,306	782	1,062	1,486	1,593	3,192	2,885
2008	9,165	11,250	6,703	5,981	1,991	1,143	1,612	4,022	2,810	1,167	1,140	5,810	4,361
2009	5,791	3,444	10,530	21,680	8,460	5,504	2,151	3,650	5,659	3,989	8,716	28,730	9,056
2010	17,180	19,150	12,640	4,618	5,542	2,585	1,618	1,870	1,083	1,008	1,755	2,216	5,868
2011	3,116	5,339	6,597	3,541	1,033	743	1,446	915	1,143	856	871	2,038	2,286
2012	3,071	6,483	3,998	2,654	1,901	2,770	1,318	1,958	3,656	1,730	1,074	2,359	2,719
2013	3,410	14,180	9,873	5,871	2,554	1,816	4,830	5,390	2,347	1,337	1,129	3,957	4,668
2014	5,757	8,806	7,871	18,560	13,090	4,884	2,306	1,678	1,372	1,673	1,496	3,757	5,907

Non-Exceedance Percentiles

02375500 - Escambia River near Century, Fla.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,251	2,596	3,762	2,123	893	743	686	778	789	555	871	2,038	1,730
5th %	2,981	3,418	3,990	2,638	1,338	1,065	1,293	908	1,082	1,000	1,126	2,209	2,698
10th %	3,112	4,586	5,871	3,483	1,696	1,156	1,318	1,266	1,140	1,029	1,324	2,337	2,919
15th %	3,645	5,167	6,510	3,919	1,978	1,223	1,432	1,440	1,328	1,242	1,476	2,534	3,981
20th %	5,039	5,785	6,891	4,118	2,225	1,784	1,611	1,632	1,370	1,327	1,586	2,659	4,476
30th %	5,753	6,414	7,668	4,993	2,714	1,956	2,144	1,932	1,712	1,503	1,898	3,086	4,698
40th %	6,024	8,199	8,751	5,937	3,717	2,613	2,693	2,532	1,805	1,639	2,229	3,701	5,511
Median	6,895	8,806	10,720	7,239	4,265	3,468	2,935	2,753	2,207	1,789	2,626	3,941	5,879
60th %	8,017	11,326	11,370	8,823	5,430	4,595	3,221	2,932	2,532	2,192	3,027	4,607	6,664
70th %	9,264	14,330	13,543	10,035	6,565	5,555	3,752	3,761	3,096	2,509	3,627	5,737	7,629
80th %	10,610	15,824	16,620	14,598	7,992	6,347	5,181	4,798	3,823	3,072	4,454	8,377	8,036
90th %	15,042	18,090	21,579	22,016	11,992	7,705	8,333	7,509	6,184	5,318	8,137	9,597	8,412
Maximum	20,280	20,010	32,840	31,430	19,520	14,950	20,850	23,560	12,010	22,980	9,389	28,730	13,821
Average	8,040	10,514	12,136	9,885	5,631	4,382	4,105	3,760	3,107	3,346	3,465	5,702	6,148

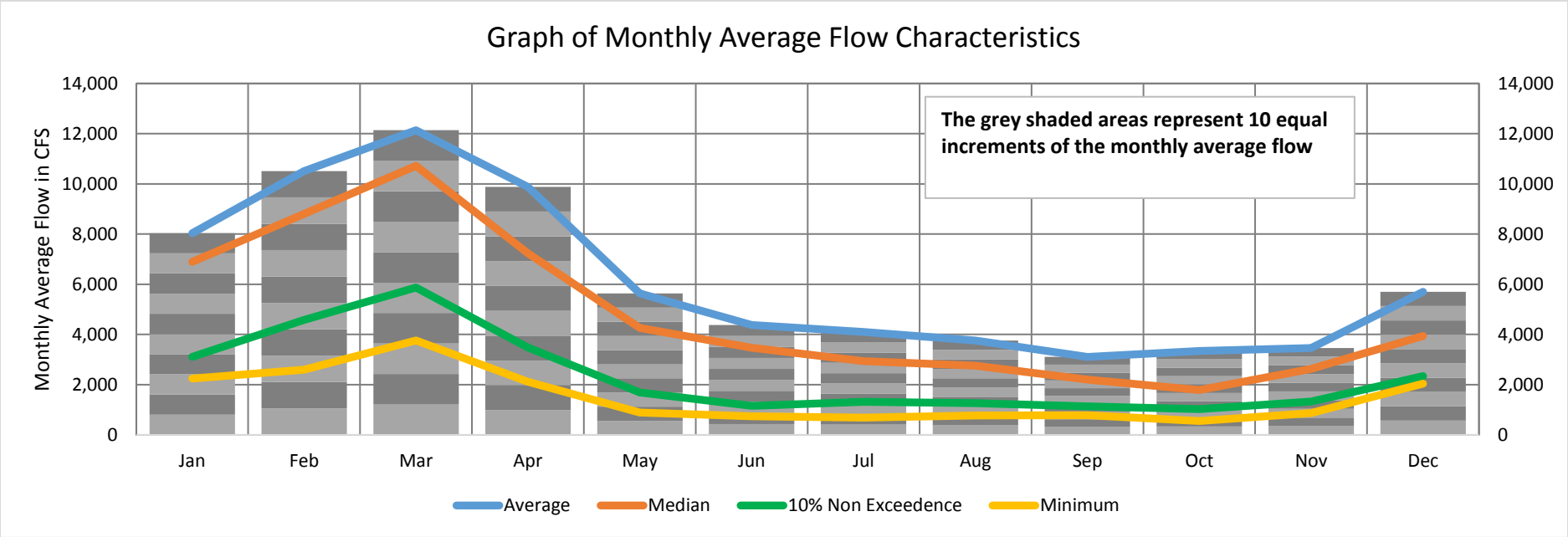
	Flows in CFS
Minimum	554.6
5th %	1,143
10th %	1,441
15th %	1,699
20th %	1,960
30th %	2,607
40th %	3,175
Median	4,173
60th %	5,589
70th %	7,186
80th %	9,180
90th %	14,181
Maximum	32,840
Average	6,173



Q10/Q50	0.35
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.15
Q5/DA	0.30
Q10/DA	0.38
Q15/DA	0.45
Q20/DA	0.51
Q30/DA	0.68
Q40/DA	0.83
Q50/DA	1.09
Q60/DA	1.46
Q70/DA	1.88
Q80/DA	2.41
Q90/DA	3.72
Qmax/DA	8.60

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

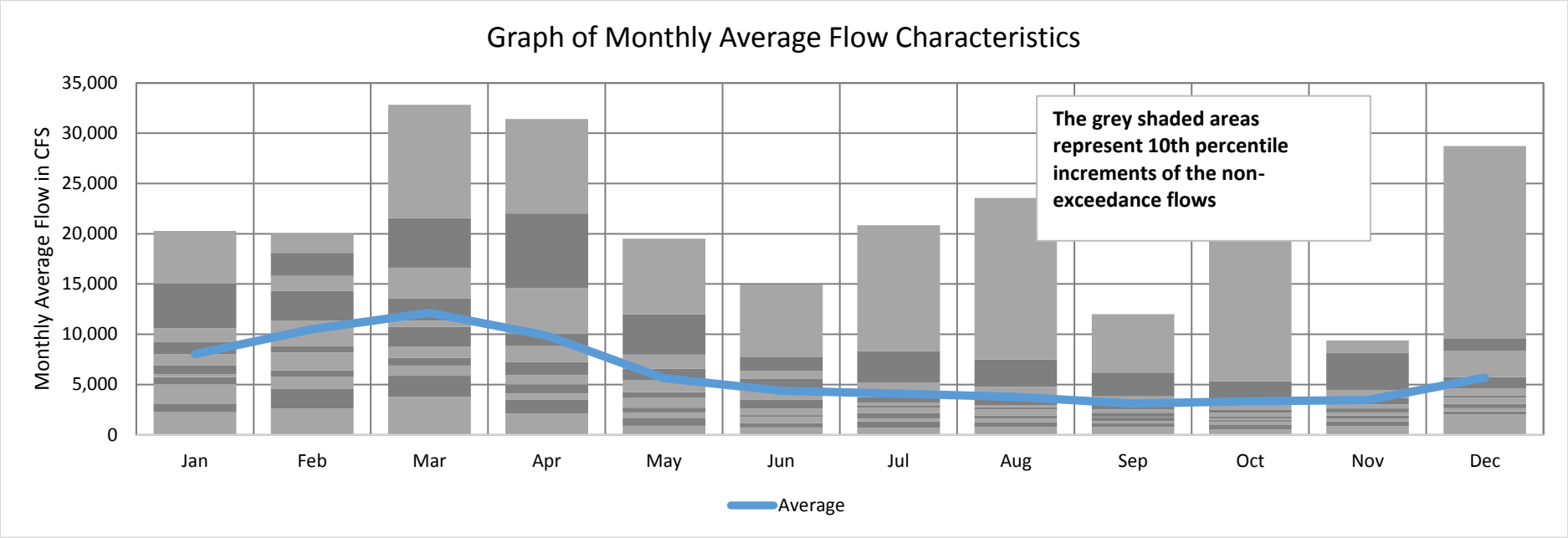
Site #: 02375500 Name: Escambia River near Century, Fla.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,040	10,514	12,136	9,885	5,631	4,382	4,105	3,760	3,107	3,346	3,465	5,702
100%	20,280	20,010	32,840	31,430	19,520	14,950	20,850	23,560	12,010	22,980	9,389	28,730
98%	19,601	19,339	30,555	28,193	16,486	13,757	16,677	12,055	11,698	18,370	9,380	18,613
95%	17,292	18,742	29,530	25,627	15,003	10,836	10,608	8,668	7,946	14,458	9,179	12,312
90%	15,042	18,090	21,579	22,016	11,992	7,705	8,333	7,509	6,184	5,318	8,137	9,597
75%	9,761	15,393	13,815	12,158	7,578	5,745	4,858	4,174	3,504	2,676	3,891	7,256
50%	6,895	8,806	10,720	7,239	4,265	3,468	2,935	2,753	2,207	1,789	2,626	3,941
25%	5,517	5,982	7,178	4,613	2,349	1,867	1,761	1,741	1,475	1,351	1,781	2,785
10%	3,112	4,586	5,871	3,483	1,696	1,156	1,318	1,266	1,140	1,029	1,324	2,337
5%	2,981	3,418	3,990	2,638	1,338	1,065	1,293	908	1,082	1,000	1,126	2,209
2%	2,717	2,846	3,828	2,292	1,002	812	962	781	1,002	789	1,029	2,060
0%	2,251	2,596	3,762	2,123	893	743	686	778	789	555	871	2,038

Site #: 02375500 Name: Escambia River near Century, Fla.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,817 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,040	10,514	12,136	9,885	5,631	4,382	4,105	3,760	3,107	3,346	3,465	5,702
100%	20,280	20,010	32,840	31,430	19,520	14,950	20,850	23,560	12,010	22,980	9,389	28,730
98%	19,601	19,339	30,555	28,193	16,486	13,757	16,677	12,055	11,698	18,370	9,380	18,613
95%	17,292	18,742	29,530	25,627	15,003	10,836	10,608	8,668	7,946	14,458	9,179	12,312
90%	15,042	18,090	21,579	22,016	11,992	7,705	8,333	7,509	6,184	5,318	8,137	9,597
75%	9,761	15,393	13,815	12,158	7,578	5,745	4,858	4,174	3,504	2,676	3,891	7,256
50%	6,895	8,806	10,720	7,239	4,265	3,468	2,935	2,753	2,207	1,789	2,626	3,941
25%	5,517	5,982	7,178	4,613	2,349	1,867	1,761	1,741	1,475	1,351	1,781	2,785
10%	3,112	4,586	5,871	3,483	1,696	1,156	1,318	1,266	1,140	1,029	1,324	2,337
5%	2,981	3,418	3,990	2,638	1,338	1,065	1,293	908	1,082	1,000	1,126	2,209
2%	2,717	2,846	3,828	2,292	1,002	812	962	781	1,002	789	1,029	2,060
0%	2,251	2,596	3,762	2,123	893	743	686	778	789	555	871	2,038

Monthly Flows (in CFS) for
02376500 - Perdido River at Barrineau Park, Fla.

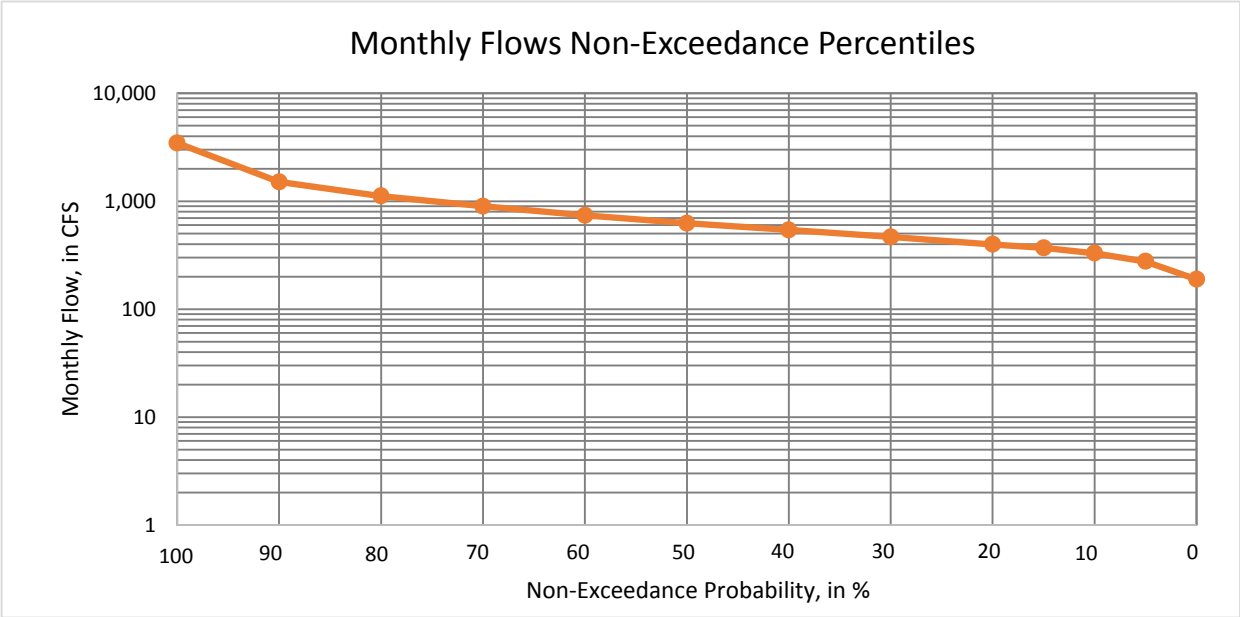
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	786	847	1,130	1,612	980	644	948	2,938	1,521	1,124	1,208	901	1,222
1976	1,428	846	888	610	1,300	845	510	420	732	458	609	827	790
1977	917	552	896	737	360	332	370	1,361	862	441	641	764	688
1978	2,373	1,010	1,290	1,124	1,406	1,669	925	634	478	404	473	677	1,040
1979	1,014	1,962	1,611	1,033	696	464	1,123	813	1,335	498	964	768	1,016
1980	1,020	716	2,176	3,154	1,746	1,053	625	535	482	601	757	530	1,117
1981	448	1,789	591	512	650	476	378	424	490	279	300	434	555
1982	764	1,251	740	429	331	325	555	518	383	329	365	626	548
1983	1,076	1,857	2,170	3,179	793	769	621	415	500	397	585	1,356	1,136
1984	1,068	842	1,233	894	696	363	408	1,633	337	322	397	407	718
1985	543	1,551	917	425	346	617	992	600	733	947	1,300	1,071	832
1986	1,211	856	800	410	536	420	369	435	425	490	663	1,011	635
1987	918	1,199	1,239	626	624	669	561	653	338	253	508	461	668
1988	839	922	928	602	262	252	461	588	1,602	583	408	373	649
1989	374	360	502	479	610	2,394	1,150	371	340	467	1,865	923	819
1990	2,338	2,364	2,791	857	1,091	674	553	371	314	328	315	404	1,028
1991	1,446	1,174	1,100	757	2,402	1,168	1,268	738	598	365	632	495	1,013
1992	1,665	1,507	872	509	339	467	568	587	554	397	1,507	1,277	850
1993	1,455	1,008	1,246	1,035	607	362	666	409	464	420	588	566	735
1994	809	648	722	919	444	664	1,303	439	395	530	460	552	658
1995	709	885	1,105	1,299	1,911	555	485	1,683	455	2,519	1,449	1,236	1,196
1996	1,286	1,560	1,374	2,085	924	748	836	960	1,212	591	547	635	1,058
1997	916	1,005	778	773	862	1,048	2,023	728	396	431	1,001	1,110	923
1998	2,636	1,548	2,699	1,018	572	540	715	772	3,460	1,515	931	672	1,421
1999	923	607	1,114	473	417	1,162	776	433	371	517	364	494	638
2000	413	380	377	330	236	254	210	217	276	189	515	479	322
2001	522	415	1,452	377	227	415	379	649	475	331	272	360	491
2002	445	432	506	363	217	230	387	311	1,314	957	735	766	555
2003	662	644	1,312	714	1,882	1,991	2,502	1,369	772	542	557	720	1,144
2004	863	1,512	475	304	515	1,095	618	520	1,855	678	1,258	1,243	904
2005	736	812	720	2,298	916	1,443	2,098	1,429	1,001	587	542	717	1,108
2006	819	709	542	412	410	315	277	376	424	441	851	472	502
2007	838	587	409	718	253	368	287	223	291	465	374	580	449
2008	926	1,001	667	1,115	498	299	412	795	486	315	301	575	613
2009	683	473	1,559	1,819	1,004	456	349	590	795	552	755	3,006	1,008
2010	2,260	1,821	1,115	572	863	511	393	466	309	267	534	451	792
2011	657	622	582	338	230	243	625	264	438	216	229	339	398
2012	377	997	466	295	262	884	302	427	490	333	230	394	450
2013	393	1,150	541	501	712	486	619	576	470	265	280	797	562
2014	730	880	1,042	1,378	1,866	750	708	319	315	304	280	568	761

Non-Exceedance Percentiles

02376500 - Perdido River at Barrineau Park, Fla.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	374	360	377	295	217	230	210	217	276	189	229	339	322
5th %	392	414	463	328	230	252	287	262	308	251	270	373	446
10th %	442	468	499	360	251	295	344	318	315	267	280	403	487
15th %	511	582	535	405	262	323	370	371	338	301	301	430	541
20th %	634	619	574	422	337	356	379	402	365	321	354	459	555
30th %	723	714	722	495	415	418	411	426	416	332	404	495	637
40th %	799	846	843	590	527	472	536	456	460	401	512	567	680
Median	851	904	923	716	617	547	593	556	480	441	552	631	776
60th %	920	1,006	1,109	806	703	666	625	594	494	476	618	718	839
70th %	1,034	1,182	1,235	1,023	879	756	733	676	732	533	741	776	1,010
80th %	1,314	1,519	1,324	1,159	1,021	1,049	957	798	890	587	938	940	1,044
90th %	1,725	1,792	1,667	1,846	1,758	1,196	1,272	1,375	1,354	948	1,262	1,237	1,137
Maximum	2,636	2,364	2,791	3,179	2,402	2,394	2,502	2,938	3,460	2,519	1,865	3,006	1,421
Average	1,007	1,032	1,067	927	775	710	734	700	712	541	664	751	800

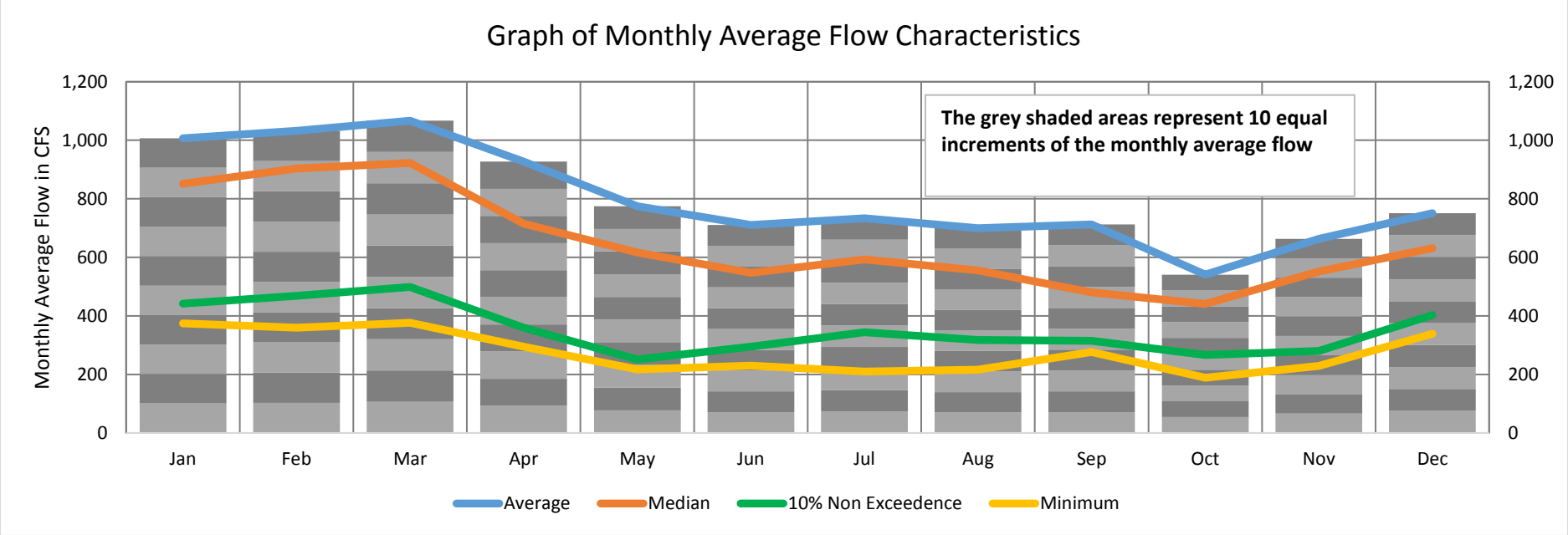
	Flows in CFS
Minimum	188.8
5th %	277
10th %	329
15th %	369
20th %	397
30th %	466
40th %	541
Median	624
60th %	739
70th %	897
80th %	1,114
90th %	1,508
Maximum	3,460
Average	802



Q10/Q50	0.53
Q10/Q90	0.22
	CFSM*
Qmin/DA	0.48
Q5/DA	0.70
Q10/DA	0.84
Q15/DA	0.94
Q20/DA	1.01
Q30/DA	1.18
Q40/DA	1.37
Q50/DA	1.58
Q60/DA	1.88
Q70/DA	2.28
Q80/DA	2.83
Q90/DA	3.83
Qmax/DA	8.78

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

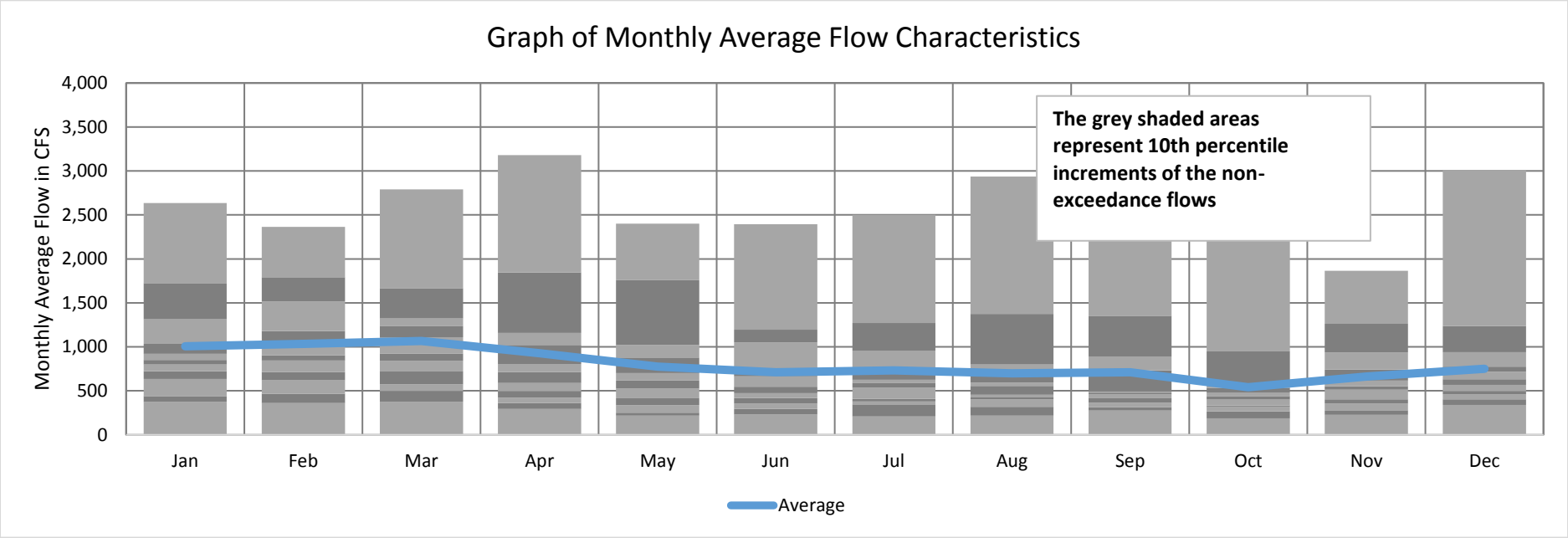
Site #: 02376500 Name: Perdido River at Barrineau Park, Fla.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,007	1,032	1,067	927	775	710	734	700	712	541	664	751
100%	2,636	2,364	2,791	3,179	2,402	2,394	2,502	2,938	3,460	2,519	1,865	3,006
98%	2,431	2,050	2,719	3,160	2,019	2,080	2,187	1,959	2,208	1,736	1,586	1,719
95%	2,340	1,862	2,202	2,341	1,883	1,685	2,027	1,636	1,615	1,144	1,452	1,281
90%	1,725	1,792	1,667	1,846	1,758	1,196	1,272	1,375	1,354	948	1,262	1,237
75%	1,110	1,315	1,257	1,055	938	854	858	747	778	560	780	845
50%	851	904	923	716	617	547	593	556	480	441	552	631
25%	678	647	648	462	356	367	391	419	392	329	372	477
10%	442	468	499	360	251	295	344	318	315	267	280	403
5%	392	414	463	328	230	252	287	262	308	251	270	373
2%	377	376	402	302	225	240	262	222	288	210	229	355
0%	374	360	377	295	217	230	210	217	276	189	229	339

Site #: 02376500 Name: Perdido River at Barrineau Park, Fla.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 394 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,007	1,032	1,067	927	775	710	734	700	712	541	664	751
100%	2,636	2,364	2,791	3,179	2,402	2,394	2,502	2,938	3,460	2,519	1,865	3,006
98%	2,431	2,050	2,719	3,160	2,019	2,080	2,187	1,959	2,208	1,736	1,586	1,719
95%	2,340	1,862	2,202	2,341	1,883	1,685	2,027	1,636	1,615	1,144	1,452	1,281
90%	1,725	1,792	1,667	1,846	1,758	1,196	1,272	1,375	1,354	948	1,262	1,237
75%	1,110	1,315	1,257	1,055	938	854	858	747	778	560	780	845
50%	851	904	923	716	617	547	593	556	480	441	552	631
25%	678	647	648	462	356	367	391	419	392	329	372	477
10%	442	468	499	360	251	295	344	318	315	267	280	403
5%	392	414	463	328	230	252	287	262	308	251	270	373
2%	377	376	402	302	225	240	262	222	288	210	229	355
0%	374	360	377	295	217	230	210	217	276	189	229	339

Monthly Flows (in CFS) for
02377570 - Styx River near Elsanor, Ala.

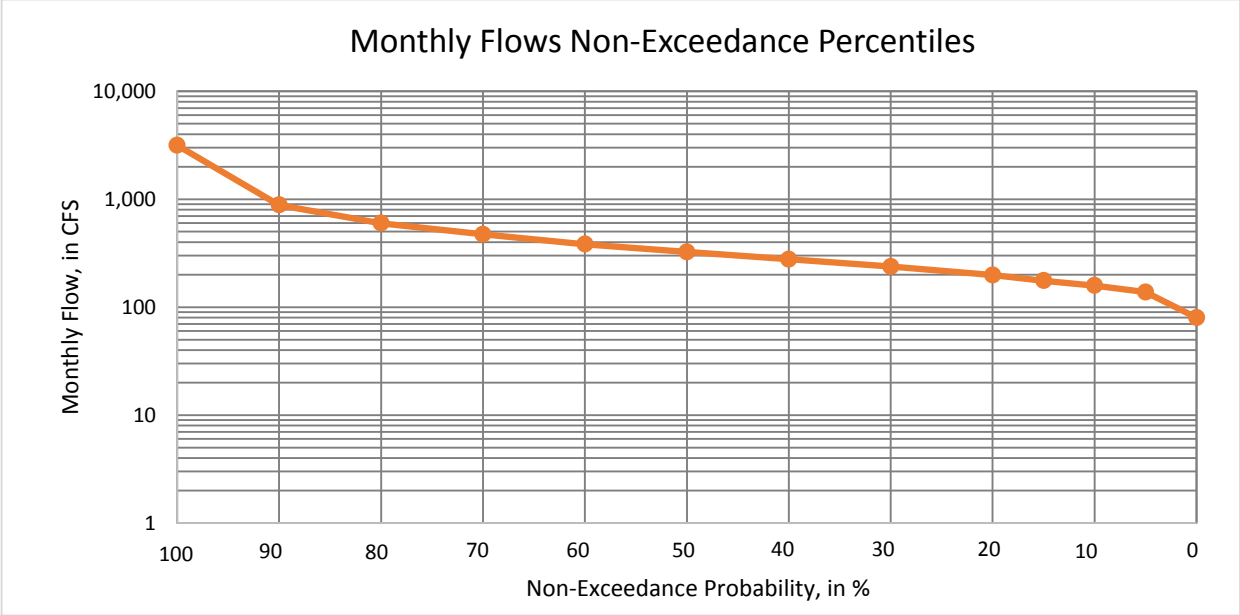
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	222	375	806	764	1,343	371	833	575	612	440	206	371	579
1976	837	621	851	473	1,143	285	328	310	202	329	227	248	489
1977	253	622	416	278	195	148	255	468	308	160	127	164	281
1978	294	570	331	478	1,036	459	203	711	482	204	244	264	439
1979	369	570	902	498	287	146	287	368	384	255	532	413	417
1980	567	382	1,322	2,000	1,034	588	328	276	246	315	407	273	645
1981	227	1,062	308	263	343	242	187	213	250	134	144	218	294
1982	411	713	397	216	162	158	288	266	190	161	180	329	287
1983	602	1,107	1,318	2,018	428	414	326	208	256	198	305	780	659
1984	597	458	701	490	370	179	204	959	165	157	198	203	391
1985	281	906	504	213	170	324	550	314	393	522	744	599	457
1986	687	467	432	205	276	211	182	219	213	250	351	562	338
1987	504	680	705	329	328	354	291	345	165	137	286	325	369
1988	501	578	514	403	140	125	293	882	1,177	397	272	227	458
1989	207	198	284	253	366	1,850	689	213	154	280	1,248	469	516
1990	1,113	1,265	1,369	364	442	364	282	175	160	141	138	176	495
1991	912	593	573	443	1,047	541	512	331	228	165	290	273	493
1992	1,099	754	429	224	139	214	312	472	212	185	693	644	447
1993	720	510	776	657	368	238	407	217	237	237	281	267	409
1994	410	345	518	508	218	324	1,066	440	204	294	244	317	409
1995	392	309	732	745	914	332	333	907	245	1,376	943	707	665
1996	608	814	959	1,353	523	326	389	536	629	291	264	369	586
1997	437	572	374	414	394	620	1,824	421	198	207	680	592	562
1998	1,743	835	1,171	414	251	194	311	303	3,155	600	510	338	816
1999	488	279	388	204	147	498	422	236	149	312	129	211	289
2000	183	162	201	145	94	148	95	97	123	80	296	272	158
2001	299	248	840	167	101	251	304	565	188	162	111	150	283
2002	243	203	212	176	106	105	166	145	877	592	526	411	313
2003	383	405	650	256	974	929	1,552	614	391	234	252	376	587
2004	559	972	308	176	223	489	323	290	1,000	197	666	763	492
2005	342	472	399	1,927	570	928	986	1,090	509	248	258	361	673
2006	389	406	254	221	269	164	134	215	290	240	383	209	263
2007	483	309	166	153	105	138	169	128	173	305	240	378	229
2008	616	612	407	781	289	143	192	343	462	177	152	336	374
2009	199	246	1,240	880	551	251	192	266	381	324	454	1,334	529
2010	1,317	1,052	648	226	527	270	189	264	171	119	308	226	440
2011	313	288	329	157	99	117	297	142	503	100	109	150	216
2012	157	404	204	127	198	464	196	325	347	163	107	196	239
2013	195	649	279	257	380	248	325	300	239	162	168	369	295
2014	349	427	604	1,476	1,286	565	484	238	257	206	146	263	525

Non-Exceedance Percentiles

02377570 - Styx River near Elsanor, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	157	162	166	127	94	105	95	97	123	80	107	150	158
5th %	195	202	204	153	101	125	165	141	153	118	111	163	228
10th %	206	247	249	166	105	142	181	172	164	137	129	194	261
15th %	226	287	283	176	140	148	189	212	170	154	143	208	283
20th %	251	309	308	205	159	156	192	214	185	161	151	217	289
30th %	309	397	384	223	212	206	240	237	203	164	204	259	331
40th %	377	446	412	256	273	246	290	272	233	197	244	272	402
Median	410	540	509	347	335	277	308	306	248	220	268	327	440
60th %	493	584	621	425	374	328	325	336	297	249	293	364	470
70th %	576	630	713	492	466	384	350	427	387	292	360	376	502
80th %	630	766	842	749	639	490	490	542	486	316	513	488	565
90th %	931	980	1,178	1,365	1,037	591	848	728	654	448	681	650	646
Maximum	1,743	1,265	1,369	2,018	1,343	1,850	1,824	1,090	3,155	1,376	1,248	1,334	816
Average	513	561	595	533	446	368	418	385	413	276	346	378	435

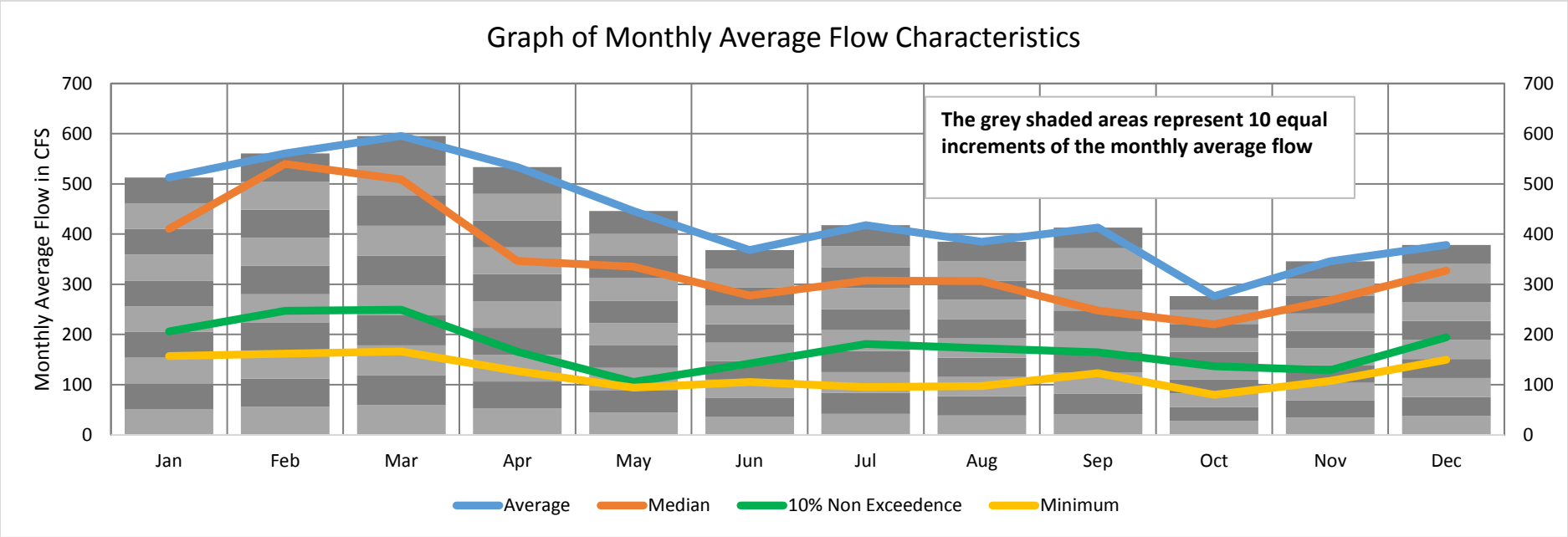
	Flows in CFS
Minimum	79.9
5th %	138
10th %	158
15th %	176
20th %	198
30th %	237
40th %	278
Median	324
60th %	383
70th %	472
80th %	599
90th %	884
Maximum	3,155
Average	436



Q10/Q50	0.49
Q10/Q90	0.18
	CFSM*
Qmin/DA	0.42
Q5/DA	0.72
Q10/DA	0.82
Q15/DA	0.91
Q20/DA	1.03
Q30/DA	1.24
Q40/DA	1.45
Q50/DA	1.69
Q60/DA	1.99
Q70/DA	2.46
Q80/DA	3.12
Q90/DA	4.61
Qmax/DA	16.43

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

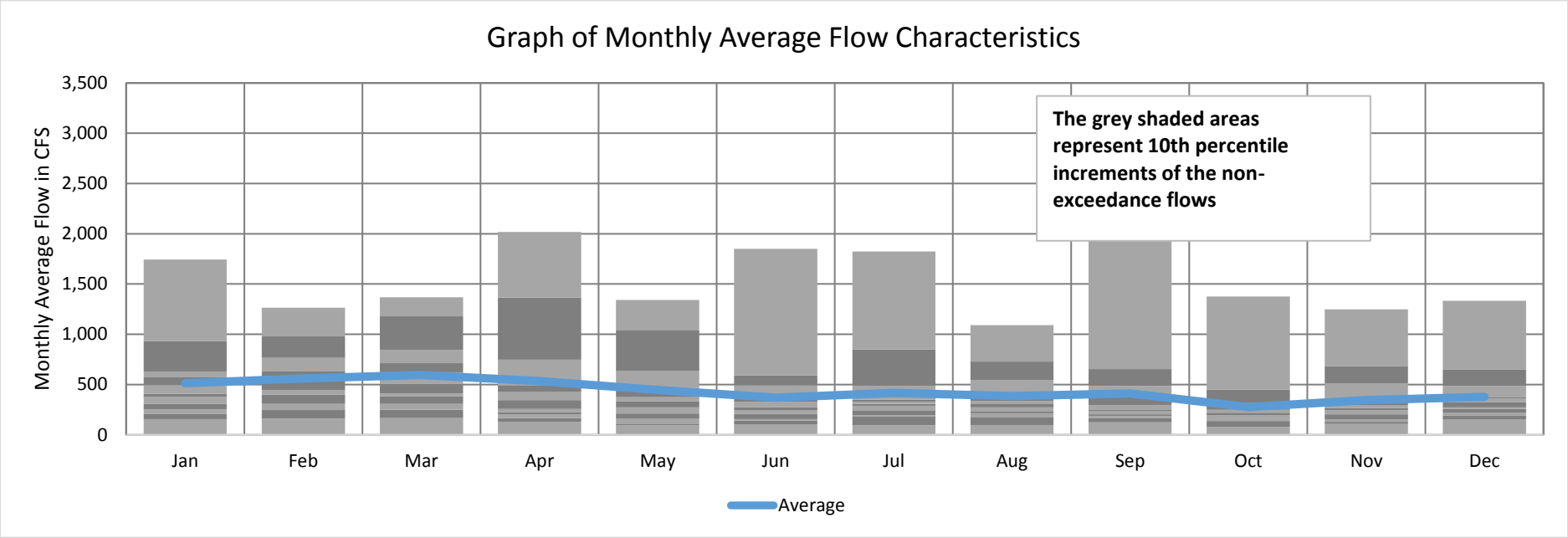
Site #: 02377570 Name: Styx River near Elsanor, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	513	561	595	533	446	368	418	385	413	276	346	378
100%	1,743	1,265	1,369	2,018	1,343	1,850	1,824	1,090	3,155	1,376	1,248	1,334
98%	1,411	1,142	1,332	2,004	1,298	1,132	1,612	988	1,612	770	1,010	902
95%	1,123	1,064	1,318	1,931	1,150	928	1,090	909	1,009	592	754	764
90%	931	980	1,178	1,365	1,037	591	848	728	654	448	681	650
75%	604	688	783	545	533	461	411	469	410	306	418	411
50%	410	540	509	347	335	277	308	306	248	220	268	327
25%	291	367	331	215	189	176	201	219	196	162	177	226
10%	206	247	249	166	105	142	181	172	164	137	129	194
5%	195	202	204	153	101	125	165	141	153	118	111	163
2%	177	190	193	141	98	115	126	121	143	96	109	150
0%	157	162	166	127	94	105	95	97	123	80	107	150

Site #: 02377570 Name: Styx River near Elsanor, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 192 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	513	561	595	533	446	368	418	385	413	276	346	378
100%	1,743	1,265	1,369	2,018	1,343	1,850	1,824	1,090	3,155	1,376	1,248	1,334
98%	1,411	1,142	1,332	2,004	1,298	1,132	1,612	988	1,612	770	1,010	902
95%	1,123	1,064	1,318	1,931	1,150	928	1,090	909	1,009	592	754	764
90%	931	980	1,178	1,365	1,037	591	848	728	654	448	681	650
75%	604	688	783	545	533	461	411	469	410	306	418	411
50%	410	540	509	347	335	277	308	306	248	220	268	327
25%	291	367	331	215	189	176	201	219	196	162	177	226
10%	206	247	249	166	105	142	181	172	164	137	129	194
5%	195	202	204	153	101	125	165	141	153	118	111	163
2%	177	190	193	141	98	115	126	121	143	96	109	150
0%	157	162	166	127	94	105	95	97	123	80	107	150

Monthly Flows (in CFS) for

02397000 - Coosa River near Rome, Ga.

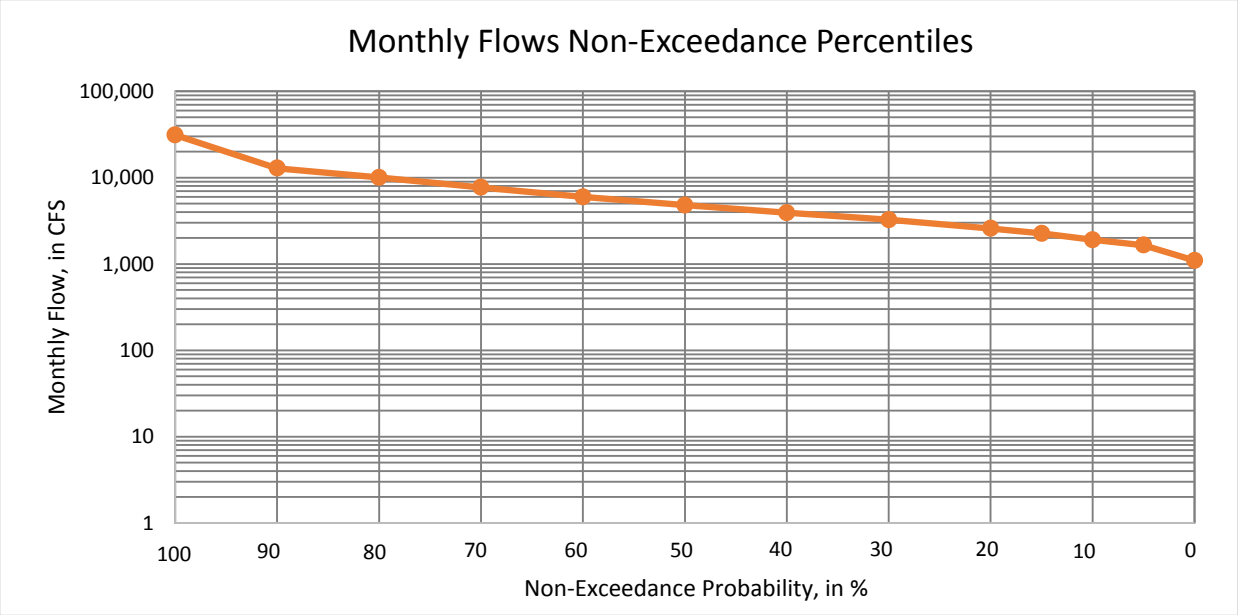
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	10,204	16,643	15,072	10,464	5,836	4,376	3,300	3,565	5,957	8,404	6,578	7,241	8,081
1976	12,912	7,604	16,892	14,335	8,274	6,178	10,109	3,301	2,696	2,580	2,976	6,273	7,860
1977	7,821	4,117	14,780	24,627	6,782	3,382	2,468	2,420	3,965	5,955	14,134	7,686	8,175
1978	16,576	7,751	8,936	5,210	9,219	4,454	2,726	3,879	2,158	1,802	2,156	3,987	5,746
1979	10,178	10,040	21,454	23,552	9,001	6,967	6,182	4,700	5,121	5,047	9,810	5,416	9,770
1980	9,074	7,880	27,804	21,337	12,846	4,983	3,521	2,346	2,108	2,894	3,239	3,254	8,451
1981	2,323	8,544	4,780	5,958	4,072	5,747	2,711	2,450	2,606	1,864	1,962	4,350	3,908
1982	16,170	22,006	11,034	11,242	6,584	3,925	3,732	4,015	3,119	3,325	5,557	18,632	9,040
1983	7,687	10,933	8,521	14,681	11,022	5,835	3,669	2,951	2,483	2,099	5,913	18,641	7,851
1984	12,596	10,112	11,525	12,045	16,072	5,047	7,391	9,360	3,561	3,499	3,004	4,789	8,260
1985	4,177	11,002	4,416	3,465	4,102	2,396	2,809	3,280	2,046	2,295	3,680	4,379	3,959
1986	2,850	4,163	4,225	2,544	2,131	1,814	1,341	1,333	1,487	1,854	4,494	6,725	2,907
1987	9,815	7,409	12,385	5,169	3,043	3,219	2,648	2,067	1,610	1,700	1,665	1,881	4,375
1988	5,995	3,798	3,115	3,776	1,651	1,513	1,409	1,611	2,043	1,472	2,972	2,326	2,631
1989	8,576	7,324	14,887	9,381	6,026	11,698	10,450	3,842	4,200	15,444	10,475	8,610	9,262
1990	16,385	31,129	29,223	10,482	7,172	3,635	4,037	3,728	3,505	3,863	3,624	8,107	10,293
1991	7,345	11,056	11,131	9,567	12,742	5,418	4,694	4,063	4,109	3,079	5,044	7,729	7,145
1992	8,706	9,544	11,807	6,142	3,465	4,989	4,037	4,838	4,728	3,685	12,966	15,763	7,543
1993	16,949	8,170	14,056	8,763	5,514	3,571	3,083	1,906	1,703	2,016	2,549	3,592	5,992
1994	6,827	9,208	12,231	17,067	4,718	4,674	5,911	4,783	3,801	6,120	3,463	6,965	7,129
1995	6,669	12,684	12,797	3,938	3,959	3,212	2,464	2,235	2,987	8,621	10,985	5,775	6,320
1996	13,162	16,471	18,679	10,366	6,320	5,958	2,427	3,586	3,592	2,834	5,328	8,454	8,049
1997	10,547	9,765	16,230	8,679	11,957	8,500	4,540	3,469	2,935	6,257	7,567	5,683	8,008
1998	11,358	18,558	15,091	19,298	8,783	5,106	3,013	3,369	2,295	2,011	2,183	4,536	7,888
1999	8,384	9,444	6,255	4,160	6,325	3,531	6,967	2,472	1,410	1,773	2,695	2,797	4,664
2000	3,055	2,912	5,180	11,446	3,515	2,890	2,298	2,234	2,887	1,699	3,495	3,215	3,727
2001	5,565	6,864	12,687	6,519	3,774	6,357	5,101	3,738	2,857	2,215	1,957	3,942	5,125
2002	7,945	5,079	5,613	7,190	7,079	2,760	2,284	1,808	2,900	2,581	8,114	13,507	5,579
2003	6,545	11,398	13,151	6,863	23,491	9,682	14,470	6,879	3,970	3,624	5,056	6,158	9,288
2004	6,454	9,361	5,644	4,229	4,047	3,833	4,802	3,208	8,013	4,884	11,571	14,332	6,674
2005	5,735	8,104	10,064	13,003	5,516	5,314	12,213	4,875	2,583	2,098	2,962	4,944	6,443
2006	6,737	5,448	5,327	5,344	3,940	2,805	2,328	1,587	1,725	2,207	4,578	2,818	3,724
2007	5,517	2,922	3,349	2,262	1,485	1,338	1,508	1,337	1,531	1,097	1,395	1,533	2,105
2008	1,951	3,541	5,564	3,795	3,216	1,610	1,520	1,657	1,425	1,706	1,988	6,392	2,865
2009	11,828	4,279	8,414	9,133	9,626	2,576	1,757	2,130	7,707	15,120	12,851	17,473	8,615
2010	10,863	15,694	10,223	7,050	6,750	4,006	2,404	2,091	1,524	1,533	1,730	3,667	5,568
2011	3,886	4,508	13,518	12,515	4,359	2,276	2,566	1,697	2,674	1,765	3,228	7,888	5,077
2012	8,495	5,163	7,260	3,112	2,860	1,884	1,812	1,691	1,470	1,721	1,664	3,528	3,389
2013	12,548	11,806	8,960	10,832	20,019	7,518	11,477	7,233	3,711	4,404	4,291	15,254	9,857
2014	10,737	10,034	7,552	11,144	5,821	4,146	3,210	1,990	2,676	3,395	3,999	5,298	5,803

Non-Exceedance Percentiles

02397000 - Coosa River near Rome, Ga.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,951	2,912	3,115	2,262	1,485	1,338	1,341	1,333	1,410	1,097	1,395	1,533	2,105
5th %	2,823	3,510	4,182	3,084	2,107	1,605	1,503	1,575	1,468	1,529	1,665	2,304	2,854
10th %	3,803	4,085	4,743	3,745	3,025	1,877	1,734	1,652	1,521	1,700	1,934	2,816	3,340
15th %	5,316	4,262	5,305	3,917	3,428	2,378	2,213	1,697	1,598	1,719	1,984	3,248	3,726
20th %	5,701	4,965	5,603	4,215	3,722	2,723	2,322	1,886	1,720	1,771	2,178	3,579	3,949
30th %	6,632	7,186	7,464	5,774	4,064	3,217	2,467	2,118	2,143	1,967	2,969	4,241	5,111
40th %	7,550	7,828	8,951	6,975	5,196	3,609	2,720	2,391	2,597	2,164	3,234	4,882	5,780
Median	8,439	8,876	11,082	8,948	5,931	4,076	3,147	3,079	2,777	2,581	3,652	5,729	6,558
60th %	9,370	9,632	12,292	10,405	6,650	4,798	3,694	3,409	2,956	3,178	4,527	6,525	7,667
70th %	10,604	10,359	13,261	11,173	7,503	5,168	4,586	3,731	3,571	3,642	5,397	7,699	8,020
80th %	11,972	11,480	14,924	12,613	9,300	5,859	5,965	4,024	3,966	4,917	7,676	8,485	8,298
90th %	13,462	16,488	17,071	17,290	12,752	7,022	10,143	4,842	4,768	6,471	11,043	15,305	9,265
Maximum	16,949	31,129	29,223	24,627	23,491	11,698	14,470	9,360	8,013	15,444	14,134	18,641	10,293
Average	8,779	9,562	11,246	9,517	7,078	4,478	4,385	3,243	3,097	3,764	5,097	7,089	6,429

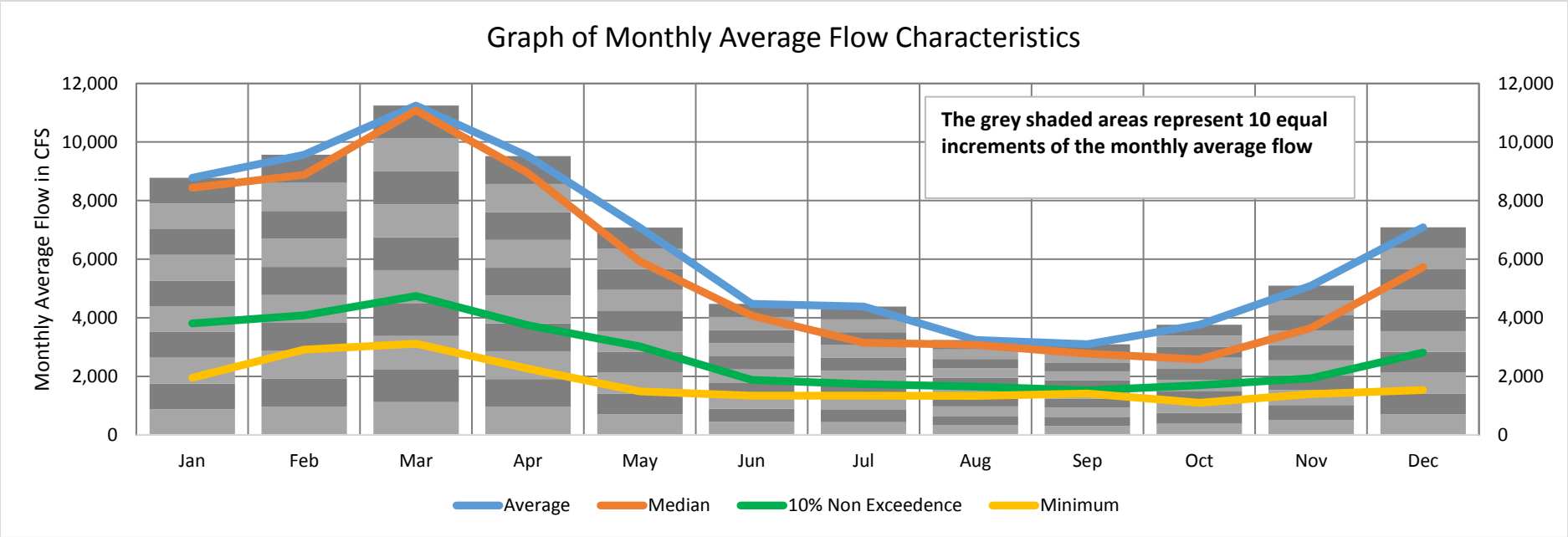
	Flows in CFS
Minimum	1,096.8
5th %	1,649
10th %	1,904
15th %	2,258
20th %	2,581
30th %	3,249
40th %	3,910
Median	4,796
60th %	5,973
70th %	7,693
80th %	10,044
90th %	12,857
Maximum	31,129
Average	6,444



Q10/Q50	0.40
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.27
Q5/DA	0.41
Q10/DA	0.47
Q15/DA	0.56
Q20/DA	0.64
Q30/DA	0.80
Q40/DA	0.97
Q50/DA	1.19
Q60/DA	1.48
Q70/DA	1.90
Q80/DA	2.49
Q90/DA	3.18
Qmax/DA	7.71

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

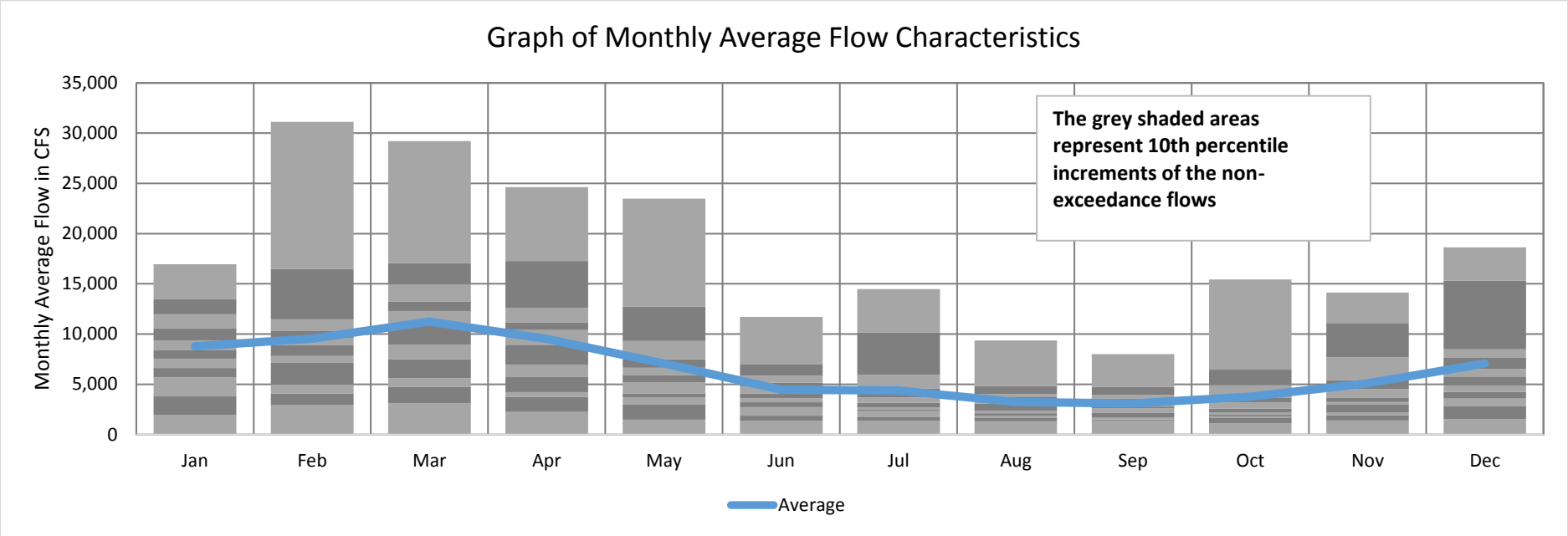
Site #: 02397000 Name: Coosa River near Rome, Ga.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,779	9,562	11,246	9,517	7,078	4,478	4,385	3,243	3,097	3,764	5,097	7,089
100%	16,949	31,129	29,223	24,627	23,491	11,698	14,470	9,360	8,013	15,444	14,134	18,641
98%	16,658	24,013	28,116	23,788	20,783	10,126	12,710	7,701	7,775	15,191	13,223	18,634
95%	16,395	18,731	21,771	21,447	16,269	8,559	11,514	6,896	6,044	8,946	12,856	17,531
90%	13,462	16,488	17,071	17,290	12,752	7,022	10,143	4,842	4,768	6,471	11,043	15,305
75%	10,987	11,015	14,237	11,596	8,837	5,500	4,877	3,851	3,733	3,998	6,079	7,943
50%	8,439	8,876	11,082	8,948	5,931	4,076	3,147	3,079	2,777	2,581	3,652	5,729
25%	6,340	5,377	6,102	5,200	3,955	2,869	2,421	2,048	2,045	1,841	2,659	3,873
10%	3,803	4,085	4,743	3,745	3,025	1,877	1,734	1,652	1,521	1,700	1,934	2,816
5%	2,823	3,510	4,182	3,084	2,107	1,605	1,503	1,575	1,468	1,529	1,665	2,304
2%	2,241	2,920	3,298	2,482	1,614	1,474	1,394	1,336	1,422	1,389	1,605	1,804
0%	1,951	2,912	3,115	2,262	1,485	1,338	1,341	1,333	1,410	1,097	1,395	1,533

Site #: 02397000 Name: Coosa River near Rome, Ga.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,040 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,779	9,562	11,246	9,517	7,078	4,478	4,385	3,243	3,097	3,764	5,097	7,089
100%	16,949	31,129	29,223	24,627	23,491	11,698	14,470	9,360	8,013	15,444	14,134	18,641
98%	16,658	24,013	28,116	23,788	20,783	10,126	12,710	7,701	7,775	15,191	13,223	18,634
95%	16,395	18,731	21,771	21,447	16,269	8,559	11,514	6,896	6,044	8,946	12,856	17,531
90%	13,462	16,488	17,071	17,290	12,752	7,022	10,143	4,842	4,768	6,471	11,043	15,305
75%	10,987	11,015	14,237	11,596	8,837	5,500	4,877	3,851	3,733	3,998	6,079	7,943
50%	8,439	8,876	11,082	8,948	5,931	4,076	3,147	3,079	2,777	2,581	3,652	5,729
25%	6,340	5,377	6,102	5,200	3,955	2,869	2,421	2,048	2,045	1,841	2,659	3,873
10%	3,803	4,085	4,743	3,745	3,025	1,877	1,734	1,652	1,521	1,700	1,934	2,816
5%	2,823	3,510	4,182	3,084	2,107	1,605	1,503	1,575	1,468	1,529	1,665	2,304
2%	2,241	2,920	3,298	2,482	1,614	1,474	1,394	1,336	1,422	1,389	1,605	1,804
0%	1,951	2,912	3,115	2,262	1,485	1,338	1,341	1,333	1,410	1,097	1,395	1,533

Monthly Flows (in CFS) for
02398300 - Chattooga River above Gaylesville, Ala.

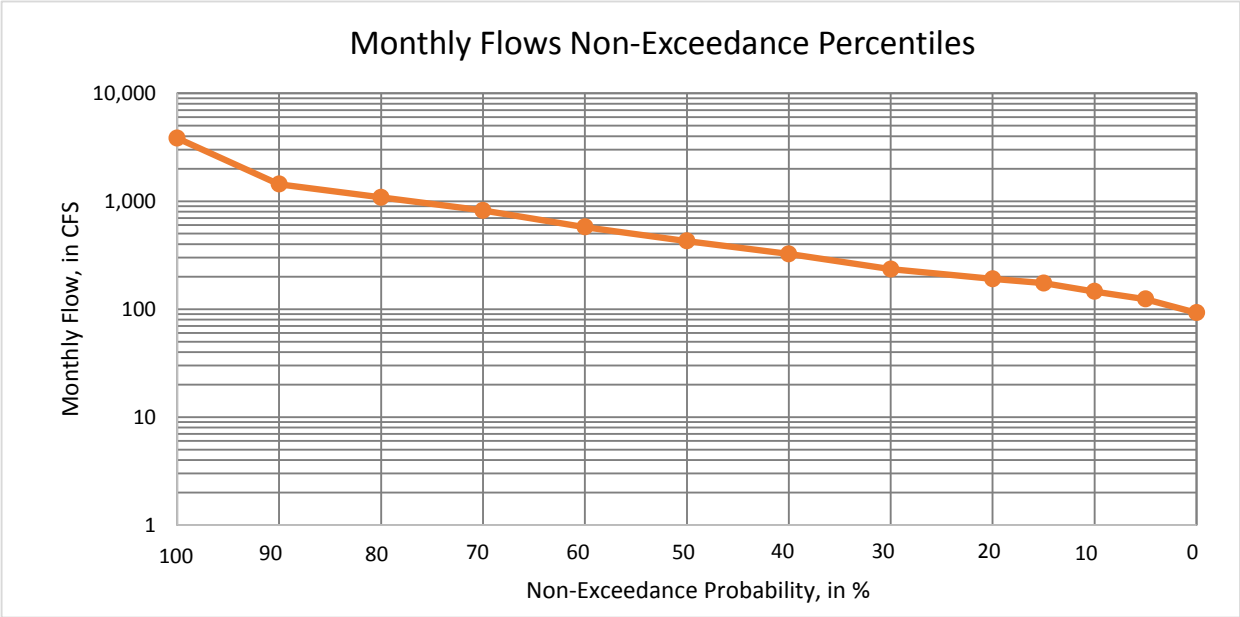
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,605	1,832	2,083	739	399	361	211	254	662	881	504	807	857
1976	1,463	617	1,504	617	610	553	1,194	250	204	181	195	484	659
1977	724	496	2,283	1,914	418	238	192	180	733	1,189	1,921	786	923
1978	1,665	618	1,161	444	1,001	350	205	178	136	129	133	321	531
1979	1,107	1,085	2,258	2,011	477	434	516	382	917	474	1,102	471	933
1980	965	927	3,438	1,721	1,652	425	248	203	194	200	284	247	877
1981	199	1,272	710	838	240	483	206	226	207	146	227	863	462
1982	2,363	1,825	981	852	443	239	272	222	161	181	764	2,344	884
1983	728	1,340	990	1,368	1,183	396	269	182	175	159	795	2,083	803
1984	1,005	832	914	1,277	1,883	360	745	931	245	231	221	315	748
1985	336	1,293	444	442	511	216	450	419	195	221	218	363	420
1986	256	582	450	245	179	147	108	114	135	262	816	719	332
1987	1,151	1,084	1,398	542	228	202	144	113	109	93	105	137	439
1988	852	338	312	486	187	111	108	121	348	146	372	241	301
1989	1,290	1,068	1,497	1,034	380	1,470	1,106	406	476	1,120	1,038	834	975
1990	1,842	3,836	2,804	563	960	380	217	184	164	175	186	757	990
1991	805	1,440	1,267	1,095	1,185	475	432	222	189	155	209	894	693
1992	1,036	1,315	1,157	662	271	419	389	328	413	255	1,455	1,246	741
1993	1,676	779	1,633	1,043	671	306	229	195	153	139	157	236	602
1994	904	1,251	2,108	1,364	430	231	415	349	246	732	419	1,391	819
1995	878	1,664	1,435	412	349	217	184	153	223	936	1,061	675	676
1996	2,107	1,366	2,056	1,248	457	293	210	211	249	172	317	766	786
1997	1,153	980	1,892	899	1,083	768	303	233	261	491	323	546	744
1998	1,494	1,665	1,253	1,607	576	297	195	193	142	141	183	393	671
1999	1,020	1,215	751	546	719	297	484	160	112	114	128	122	468
2000	291	380	818	1,283	241	181	133	123	107	92	276	248	346
2001	549	786	1,620	631	223	280	215	189	137	106	145	416	440
2002	861	521	704	574	698	173	135	124	356	380	828	1,480	571
2003	570	1,719	1,344	622	2,707	780	1,033	526	288	194	349	621	893
2004	1,070	1,351	746	413	310	217	366	188	774	255	1,645	1,532	734
2005	499	1,011	950	1,102	392	303	461	256	175	144	184	402	486
2006	686	537	472	517	340	178	136	132	145	258	537	248	347
2007	633	347	415	226	150	117	121	96	117	94	146	260	227
2008	395	639	1,119	444	374	169	149	177	118	105	117	997	400
2009	1,434	489	1,172	1,049	1,215	290	181	169	1,087	1,078	918	2,058	933
2010	1,262	1,392	874	718	608	358	191	198	137	140	178	335	528
2011	584	529	2,101	1,246	328	191	215	164	440	156	563	1,087	635
2012	1,235	733	875	320	228	196	149	151	169	227	128	556	414
2013	1,834	1,282	1,013	1,469	1,785	436	841	410	289	195	325	1,256	928
2014	930	1,153	706	1,070	355	333	208	156	139	156	239	567	496

Non-Exceedance Percentiles

02398300 - Chattooga River above Gaylesville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	199	338	312	226	150	111	108	96	107	92	105	122	227
5th %	289	379	443	316	187	145	120	114	111	94	127	231	331
10th %	389	495	470	413	227	172	135	123	118	106	133	246	347
15th %	541	528	706	444	238	180	143	131	136	127	146	248	412
20th %	581	573	739	478	265	195	149	152	137	140	174	304	435
30th %	727	705	875	558	346	217	192	167	150	146	192	384	481
40th %	871	889	987	628	387	264	207	181	172	158	225	479	555
Median	985	1,076	1,159	788	437	297	215	191	195	181	300	594	665
60th %	1,085	1,229	1,298	1,038	537	339	257	206	232	209	358	761	737
70th %	1,243	1,300	1,499	1,097	679	367	373	228	269	255	545	842	791
80th %	1,469	1,371	1,925	1,278	1,017	427	452	271	367	399	818	1,119	879
90th %	1,692	1,670	2,123	1,483	1,259	490	755	406	669	886	1,065	1,485	929
Maximum	2,363	3,836	3,438	2,011	2,707	1,470	1,194	931	1,087	1,189	1,921	2,344	990
Average	1,036	1,090	1,293	891	661	347	339	237	288	313	493	753	643

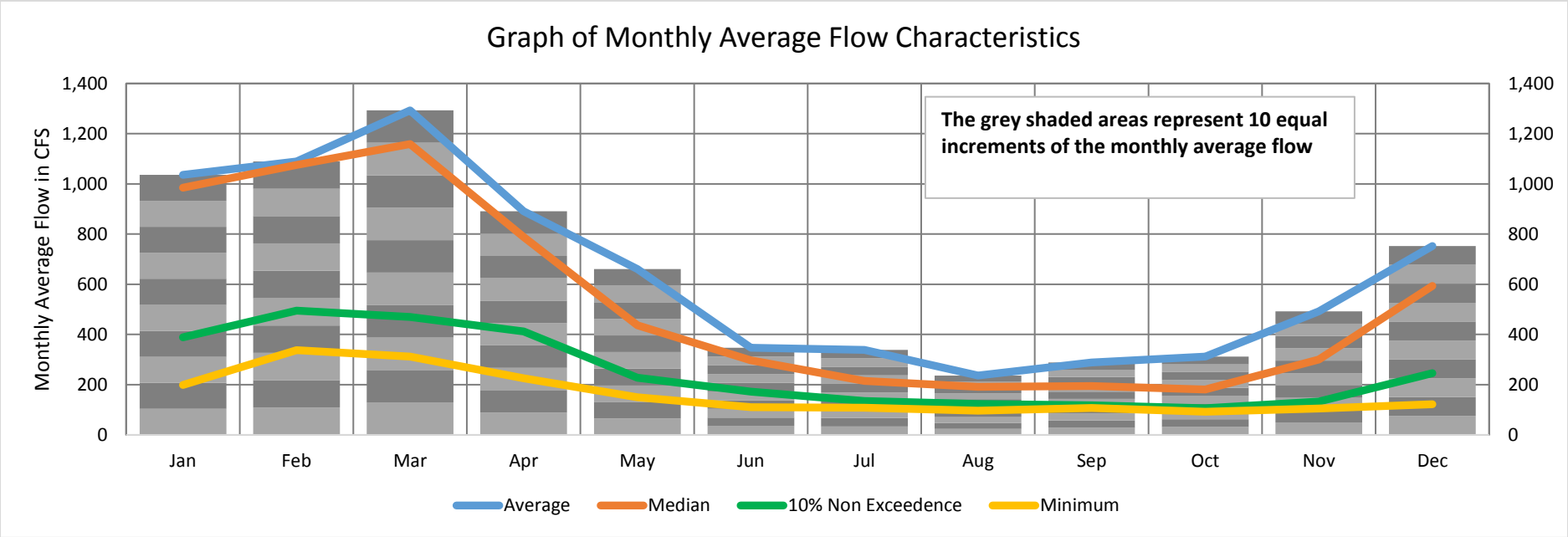
	Flows in CFS
Minimum	92.4
5th %	124
10th %	146
15th %	174
20th %	191
30th %	235
40th %	324
Median	428
60th %	575
70th %	821
80th %	1,084
90th %	1,434
Maximum	3,836
Average	645



Q10/Q50	0.34
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.25
Q5/DA	0.34
Q10/DA	0.40
Q15/DA	0.48
Q20/DA	0.52
Q30/DA	0.64
Q40/DA	0.88
Q50/DA	1.17
Q60/DA	1.57
Q70/DA	2.24
Q80/DA	2.96
Q90/DA	3.92
Qmax/DA	10.48

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

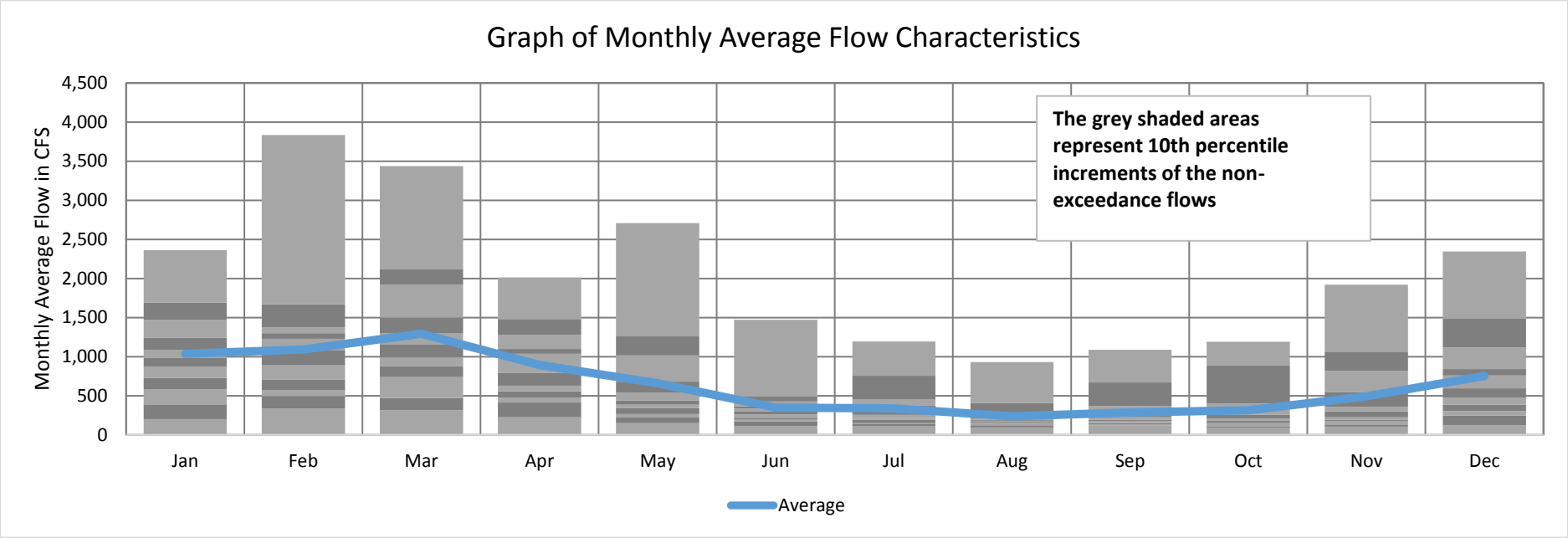
Site #: 02398300 Name: Chattooga River above Gaylesville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,036	1,090	1,293	891	661	347	339	237	288	313	493	753
100%	2,363	3,836	3,438	2,011	2,707	1,470	1,194	931	1,087	1,189	1,921	2,344
98%	2,163	2,273	2,943	1,935	2,064	932	1,125	615	955	1,135	1,706	2,141
95%	1,855	1,825	2,309	1,731	1,790	768	1,037	425	781	1,080	1,465	2,059
90%	1,692	1,670	2,123	1,483	1,259	490	755	406	669	886	1,065	1,485
75%	1,326	1,343	1,623	1,247	779	402	420	251	304	259	772	920
50%	985	1,076	1,159	788	437	297	215	191	195	181	300	594
25%	673	618	801	536	323	213	184	159	141	143	184	332
10%	389	495	470	413	227	172	135	123	118	106	133	246
5%	289	379	443	316	187	145	120	114	111	94	127	231
2%	244	345	392	241	172	115	108	109	109	93	114	133
0%	199	338	312	226	150	111	108	96	107	92	105	122

Site #: 02398300 Name: Chattooga River above Gaylesville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 366 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,036	1,090	1,293	891	661	347	339	237	288	313	493	753
100%	2,363	3,836	3,438	2,011	2,707	1,470	1,194	931	1,087	1,189	1,921	2,344
98%	2,163	2,273	2,943	1,935	2,064	932	1,125	615	955	1,135	1,706	2,141
95%	1,855	1,825	2,309	1,731	1,790	768	1,037	425	781	1,080	1,465	2,059
90%	1,692	1,670	2,123	1,483	1,259	490	755	406	669	886	1,065	1,485
75%	1,326	1,343	1,623	1,247	779	402	420	251	304	259	772	920
50%	985	1,076	1,159	788	437	297	215	191	195	181	300	594
25%	673	618	801	536	323	213	184	159	141	143	184	332
10%	389	495	470	413	227	172	135	123	118	106	133	246
5%	289	379	443	316	187	145	120	114	111	94	127	231
2%	244	345	392	241	172	115	108	109	109	93	114	133
0%	199	338	312	226	150	111	108	96	107	92	105	122

Monthly Flows (in CFS) for
02399200 - Little River near Blue Pond, Ala.

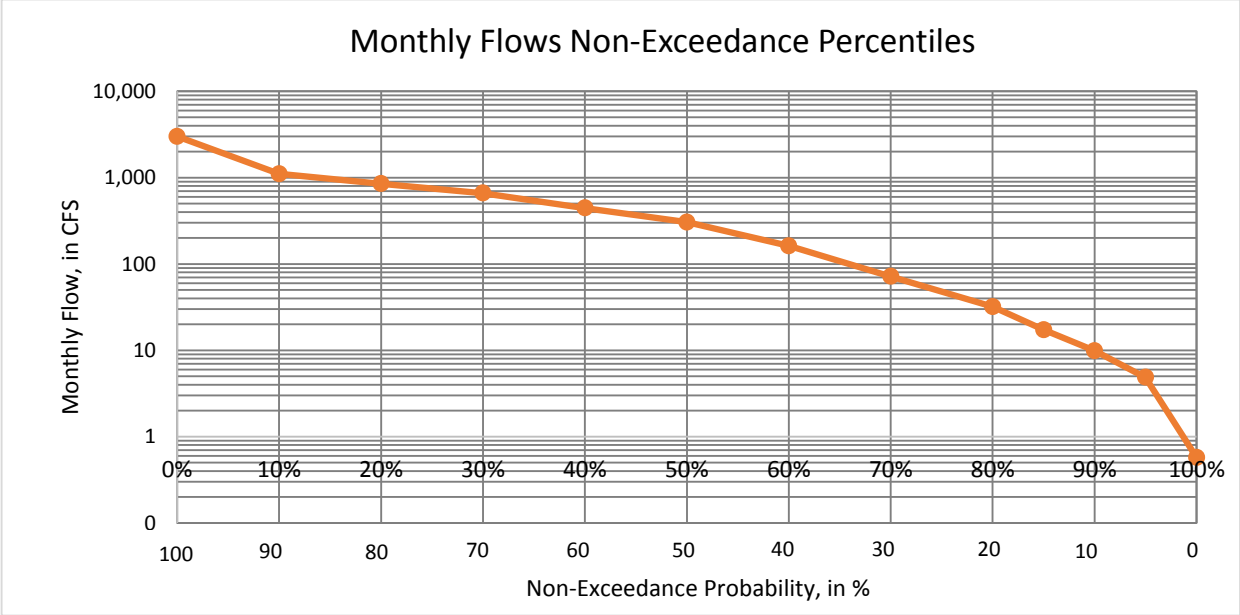
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,397	1,507	1,498	391	246	214	71	228	569	1,080	402	646	684
1976	1,162	346	1,132	287	431	302	780	28	15	9	53	558	429
1977	701	463	1,841	1,331	162	24	4	54	383	975	1,461	621	669
1978	1,243	293	758	304	858	92	8	34	10	2	4	366	334
1979	1,228	950	1,717	1,939	161	273	378	73	676	257	937	209	729
1980	506	442	2,596	1,030	496	44	4	2	37	76	244	183	473
1981	132	450	770	792	97	122	39	41	65	15	120	928	296
1982	1,848	1,361	820	1,041	230	23	27	63	13	16	599	2,020	669
1983	606	1,309	926	1,091	433	123	36	5	5	10	810	1,741	586
1984	755	477	762	895	1,114	33	383	578	2	29	81	287	452
1985	296	1,207	275	354	340	16	1,690	564	34	122	368	417	471
1986	209	578	403	118	33	8	6	19	50	274	1,154	617	286
1987	992	1,071	1,258	343	53	137	38	9	4	1	3	86	329
1988	1,103	339	235	480	47	5	16	28	515	48	492	219	292
1989	1,390	1,027	1,021	791	181	1,101	418	73	306	607	806	530	684
1990	1,611	3,000	1,928	236	745	72	10	5	3	8	45	878	700
1991	823	1,250	856	666	805	145	51	7	5	2	22	840	452
1992	807	1,059	829	344	48	315	290	351	374	78	1,583	1,034	588
1993	1,216	395	1,086	683	577	25	9	8	2	2	11	122	346
1994	984	1,160	1,479	952	175	73	722	176	130	918	377	1,105	687
1995	414	1,184	938	149	113	12	6	19	143	930	1,011	496	447
1996	1,641	906	1,510	810	135	66	13	33	129	56	341	804	536
1997	900	786	1,291	656	835	735	67	35	67	379	249	504	541
1998	1,401	1,196	771	1,012	247	79	8	13	6	7	15	311	417
1999	1,026	838	512	391	501	224	425	13	1	4	17	55	332
2000	461	461	856	1,049	64	30	12	6	14	5	443	276	304
2001	707	848	1,359	456	74	122	88	62	63	19	188	709	390
2002	963	511	739	419	552	17	3	3	357	294	715	1,098	473
2003	379	1,324	766	384	1,729	233	397	157	76	36	158	557	513
2004	787	844	443	222	160	56	237	25	1,057	117	1,503	1,046	537
2005	313	636	622	613	169	161	317	77	18	6	33	336	273
2006	705	449	317	349	195	12	7	3	7	124	456	153	230
2007	615	237	222	174	51	4	23	4	18	9	55	194	134
2008	494	746	883	305	201	33	11	73	22	11	41	1,258	339
2009	1,160	374	792	718	800	51	7	20	859	931	687	1,451	657
2010	842	821	766	499	388	215	28	15	2	5	107	280	328
2011	619	378	1,616	1,041	159	60	46	28	397	29	572	973	494
2012	1,014	537	636	75	33	81	11	11	56	70	28	507	255
2013	1,597	993	697	963	833	68	237	148	64	13	152	1,151	576
2014	631	852	419	835	204	246	115	35	22	87	181	563	345

Non-Exceedance Percentiles

02399200 - Little River near Blue Pond, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	132	237	222	75	33	4	3	2	1	1	3	55	134
5th %	292	337	273	147	46	8	4	3	2	2	10	120	254
10th %	372	371	394	217	51	12	6	5	3	4	17	180	285
15th %	454	393	439	280	62	17	7	6	5	5	27	207	296
20th %	504	448	600	305	92	23	8	8	6	6	40	264	323
30th %	627	473	752	353	159	33	11	13	14	10	73	328	337
40th %	736	613	768	408	173	58	20	20	20	15	156	500	406
Median	833	830	825	556	202	73	37	28	43	33	246	558	452
60th %	987	874	900	697	284	104	57	35	64	72	387	631	481
70th %	1,120	1,037	1,100	818	452	139	151	62	129	119	516	851	538
80th %	1,231	1,186	1,383	973	611	217	329	74	361	278	733	1,036	602
90th %	1,421	1,311	1,626	1,042	833	276	419	181	521	919	1,025	1,162	684
Maximum	1,848	3,000	2,596	1,939	1,729	1,101	1,690	578	1,057	1,080	1,583	2,020	729
Average	892	840	959	630	367	141	176	78	164	191	413	653	457

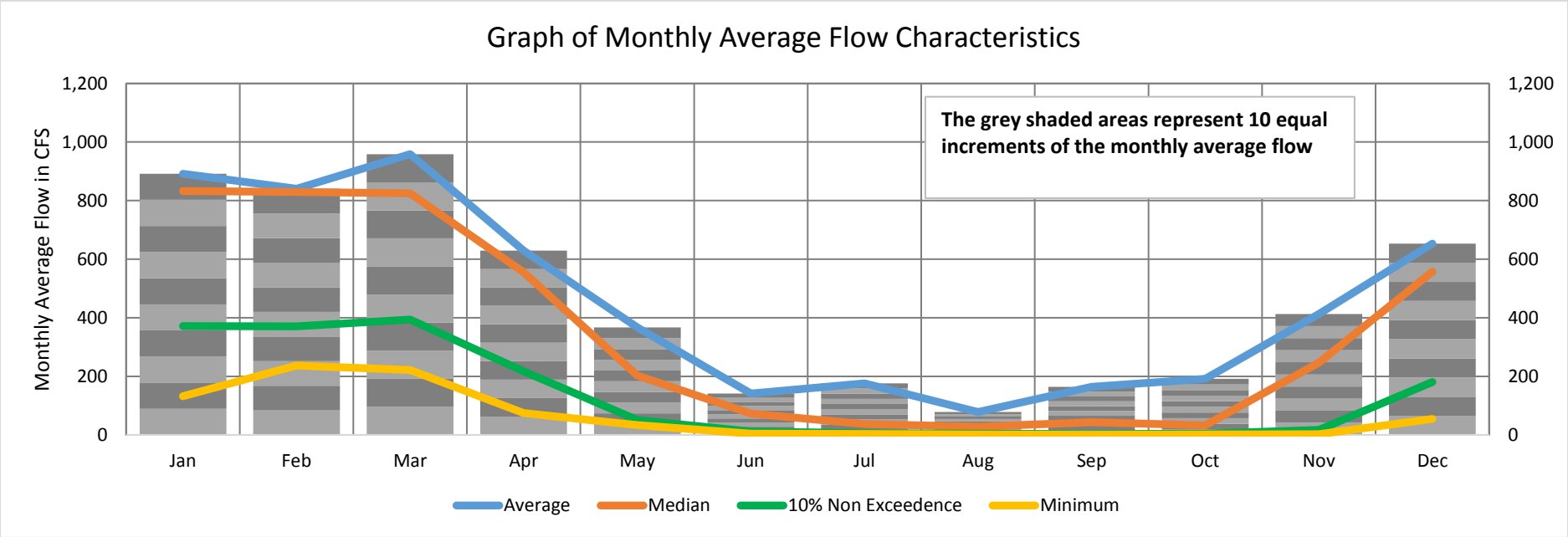
	Flows in CFS
Minimum	0.6
5th %	5
10th %	10
15th %	17
20th %	32
30th %	72
40th %	162
Median	304
60th %	443
70th %	659
80th %	849
90th %	1,106
Maximum	3,000
Average	459



Q10/Q50	0.03
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.02
Q10/DA	0.05
Q15/DA	0.09
Q20/DA	0.16
Q30/DA	0.36
Q40/DA	0.81
Q50/DA	1.53
Q60/DA	2.23
Q70/DA	3.31
Q80/DA	4.27
Q90/DA	5.56
Qmax/DA	15.08

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

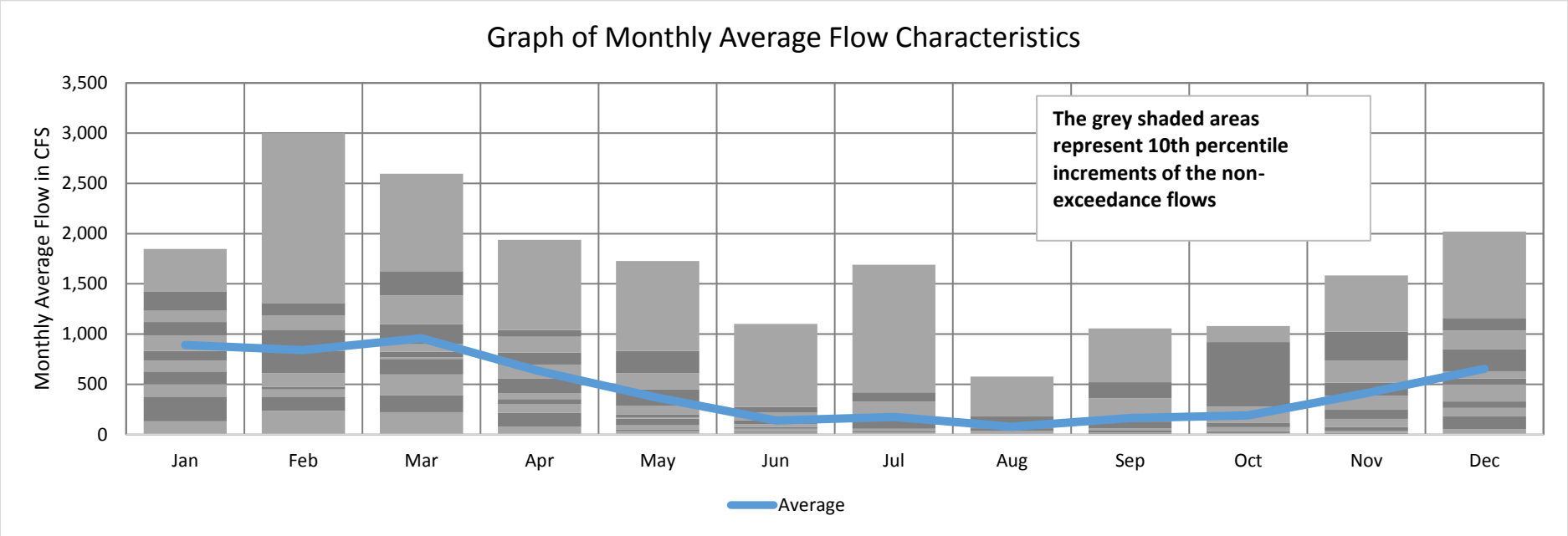
Site #: 02399200 Name: Little River near Blue Pond, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	892	840	959	630	367	141	176	78	164	191	413	653
100%	1,848	3,000	2,596	1,939	1,729	1,101	1,690	578	1,057	1,080	1,583	2,020
98%	1,687	1,835	2,075	1,465	1,249	816	980	567	902	998	1,521	1,802
95%	1,613	1,368	1,845	1,103	870	336	725	361	685	933	1,463	1,466
90%	1,421	1,311	1,626	1,042	833	276	419	181	521	919	1,025	1,162
75%	1,176	1,093	1,266	909	514	174	250	73	184	157	621	939
50%	833	830	825	556	202	73	37	28	43	33	246	558
25%	612	458	682	344	130	29	9.4	10	9.4	8.4	51	286
10%	372	371	394	217	51	12	6.0	4.5	2.8	4.0	17	180
5%	292	337	273	147	46	7.5	4.3	2.9	2.1	1.9	10	120
2%	192	281	232	108	33	4.5	3.5	2.4	1.6	1.7	3.8	79
0%	132	237	222	75	33	4.2	3.4	1.8	0.6	1.4	2.7	55

Site #: 02399200 Name: Little River near Blue Pond, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 199 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	892	840	959	630	367	141	176	78	164	191	413	653
100%	1,848	3,000	2,596	1,939	1,729	1,101	1,690	578	1,057	1,080	1,583	2,020
98%	1,687	1,835	2,075	1,465	1,249	816	980	567	902	998	1,521	1,802
95%	1,613	1,368	1,845	1,103	870	336	725	361	685	933	1,463	1,466
90%	1,421	1,311	1,626	1,042	833	276	419	181	521	919	1,025	1,162
75%	1,176	1,093	1,266	909	514	174	250	73	184	157	621	939
50%	833	830	825	556	202	73	37	28	43	33	246	558
25%	612	458	682	344	130	29	9.4	10	9.4	8.4	51	286
10%	372	371	394	217	51	12	6.0	4.5	2.8	4.0	17	180
5%	292	337	273	147	46	7.5	4.3	2.9	2.1	1.9	10	120
2%	192	281	232	108	33	4.5	3.5	2.4	1.6	1.7	3.8	79
0%	132	237	222	75	33	4.2	3.4	1.8	0.6	1.4	2.7	55

Monthly Flows (in CFS) for

02399500 - Coosa River at Leesburg, Ala.

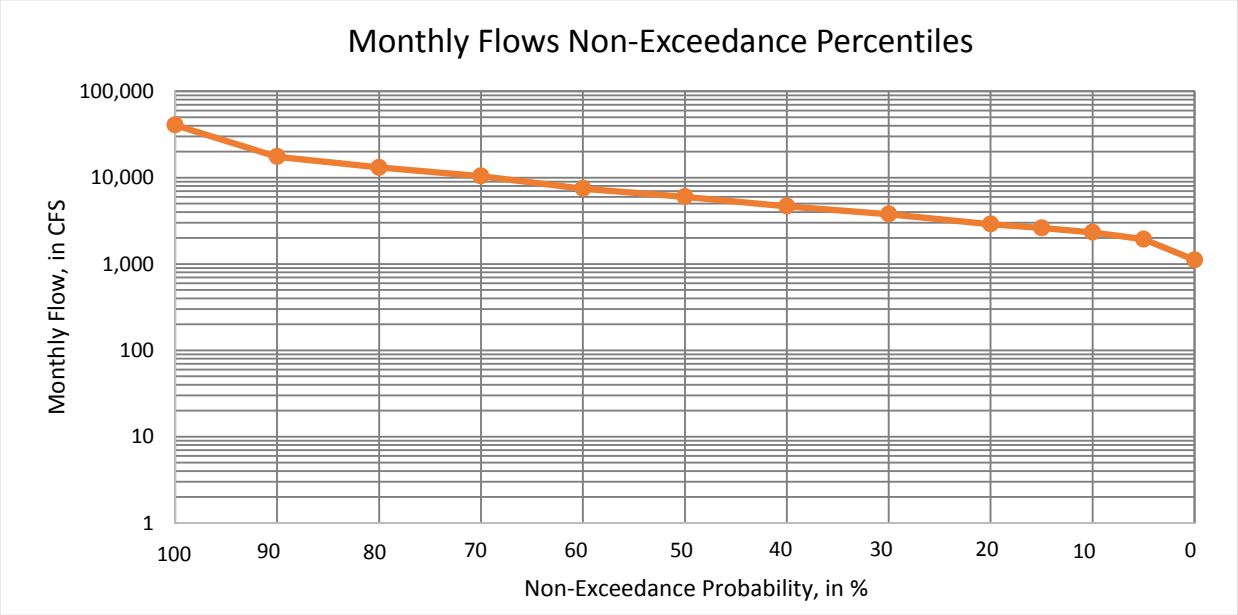
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	15,104	21,600	19,602	12,850	7,165	5,184	4,356	5,411	9,867	12,285	8,424	10,332	10,949
1976	15,551	11,318	22,321	17,394	9,356	6,936	11,482	4,262	3,501	3,456	4,129	2,369	9,338
1977	11,286	6,690	25,482	29,528	6,278	3,692	2,224	3,001	4,922	10,459	17,268	9,666	10,876
1978	18,497	10,010	11,403	5,506	12,481	5,387	2,642	4,080	2,661	2,117	2,627	5,126	6,883
1979	14,146	12,419	29,047	40,529	9,335	7,422	6,306	4,782	7,832	7,394	12,371	6,584	13,145
1980	13,670	12,596	36,401	26,730	15,831	5,573	3,548	2,324	2,834	4,539	4,778	4,391	11,101
1981	2,667	14,950	8,162	10,380	2,437	5,028	2,844	1,958	3,149	2,339	2,975	6,329	5,187
1982	20,081	25,362	13,143	17,448	7,834	4,975	4,128	3,628	2,363	3,868	6,634	24,473	11,081
1983	10,546	18,145	15,366	23,303	14,575	6,819	3,557	2,633	3,214	3,106	9,802	28,677	11,601
1984	17,449	10,868	13,062	15,007	16,120	4,347	6,220	10,891	3,039	4,133	4,297	6,632	9,355
1985	5,174	16,599	6,088	4,295	5,323	2,557	6,311	4,496	2,446	3,609	4,238	5,481	5,484
1986	3,381	4,943	4,869	2,631	1,524	1,750	1,643	1,628	1,818	1,860	8,138	9,356	3,618
1987	14,318	13,590	18,281	5,967	3,282	3,941	3,795	1,717	1,924	2,106	1,756	3,059	6,114
1988	9,298	6,589	4,234	4,412	2,862	1,688	1,353	1,861	5,360	2,900	6,316	4,467	4,258
1989	13,118	9,295	20,404	12,708	6,181	15,865	13,550	4,167	4,745	12,271	11,441	11,904	11,322
1990	21,415	37,085	33,937	8,423	6,948	3,452	3,376	2,667	2,320	3,650	3,643	7,369	11,051
1991	8,497	11,434	13,878	11,982	15,642	6,442	4,585	3,498	3,678	3,117	4,650	7,700	7,910
1992	10,948	12,797	14,102	7,161	3,411	5,269	3,900	5,351	6,069	4,063	16,770	18,436	8,994
1993	23,271	11,461	16,006	10,080	6,531	3,777	3,107	2,364	2,127	1,722	2,951	5,397	7,395
1994	8,410	12,925	16,212	19,142	5,211	4,543	7,665	5,030	5,308	8,603	5,594	12,539	9,242
1995	9,144	17,717	18,148	5,512	4,080	3,000	2,494	2,218	2,452	15,038	15,070	10,493	8,732
1996	17,800	23,347	24,869	10,853	5,803	4,919	3,285	3,518	4,214	3,826	6,325	10,284	9,846
1997	15,454	14,504	18,417	10,513	11,466	13,025	5,136	4,094	3,180	7,175	8,068	9,009	9,981
1998	17,637	24,659	20,400	18,765	7,940	4,868	3,280	3,342	2,398	2,133	3,142	5,790	9,430
1999	12,009	13,191	10,401	5,077	6,143	6,255	7,880	2,741	2,259	2,265	3,591	3,176	6,213
2000	4,609	4,193	8,077	18,956	3,498	1,975	1,837	1,999	1,895	2,035	3,821	3,469	4,680
2001	7,544	9,870	21,621	10,946	4,125	7,381	4,836	3,992	4,532	2,676	3,177	6,682	7,269
2002	11,591	8,054	7,643	8,331	7,243	2,590	2,439	2,087	4,237	4,867	11,441	19,476	7,505
2003	7,964	15,776	18,623	9,490	28,924	12,404	15,185	7,090	3,780	3,698	5,446	6,715	11,259
2004	8,004	14,115	6,254	4,442	4,893	4,840	4,435	3,043	9,663	5,251	17,708	17,079	8,253
2005	6,714	11,271	14,267	16,146	6,163	6,641	12,609	5,280	2,823	2,635	3,535	6,578	7,867
2006	10,312	11,709	9,319	6,375	5,380	2,441	2,035	2,362	1,585	2,843	6,617	4,349	5,405
2007	8,059	4,738	3,739	2,652	2,317	1,507	1,760	2,174	1,955	1,126	1,229	1,114	2,690
2008	2,684	7,386	8,812	5,447	5,357	2,250	1,752	4,308	2,399	2,067	2,160	9,518	4,504
2009	15,620	6,004	15,779	11,794	13,481	3,559	2,629	2,769	11,395	16,879	17,384	23,370	11,777
2010	15,088	19,160	17,728	7,924	8,305	4,525	2,651	2,591	1,935	1,897	2,437	4,073	7,297
2011	5,018	6,539	19,890	13,893	3,998	2,352	2,683	2,415	3,484	2,560	4,377	10,297	6,463
2012	11,500	7,330	11,281	3,465	2,583	1,806	2,247	2,828	2,614	2,839	2,246	7,079	4,823
2013	17,011	19,205	11,842	13,230	19,889	7,075	10,950	7,247	4,258	4,238	4,678	20,183	11,636
2014	13,693	14,349	12,161	18,009	6,592	5,970	3,369	2,336	2,514	3,890	4,992	9,671	8,081

Non-Exceedance Percentiles

02399500 - Coosa River at Leesburg, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,667	4,193	3,739	2,631	1,524	1,507	1,353	1,628	1,585	1,126	1,229	1,114	2,690
5th %	3,346	4,933	4,838	3,424	2,431	1,747	1,747	1,854	1,891	1,853	2,140	3,025	4,226
10th %	4,977	6,486	6,237	4,400	2,834	1,958	1,830	1,995	1,934	2,021	2,418	3,439	4,662
15th %	6,483	6,675	8,012	4,982	3,392	2,337	2,196	2,161	2,101	2,100	2,903	4,308	5,133
20th %	7,880	7,374	8,682	5,494	3,898	2,534	2,400	2,303	2,308	2,129	3,108	4,452	5,468
30th %	8,471	9,968	11,367	6,925	5,116	3,527	2,648	2,400	2,432	2,612	3,628	5,697	6,757
40th %	10,453	11,387	13,111	9,063	5,634	4,185	3,211	2,711	2,643	2,877	4,273	6,613	7,461
Median	11,545	12,507	14,817	10,683	6,229	4,854	3,462	3,022	3,094	3,533	4,728	7,224	8,167
60th %	13,680	13,351	16,818	12,272	7,034	5,090	3,991	3,562	3,491	3,843	5,883	9,421	9,280
70th %	15,093	14,638	18,479	14,227	8,049	5,692	4,661	4,116	4,221	4,164	7,064	10,288	9,887
80th %	15,898	17,802	20,401	17,561	11,669	6,677	6,307	4,553	4,781	5,636	10,130	12,031	11,057
90th %	17,870	21,775	24,930	19,558	15,661	7,385	11,003	5,357	6,246	10,640	15,240	19,546	11,350
Maximum	23,271	37,085	36,401	40,529	28,924	15,865	15,185	10,891	11,395	16,879	17,708	28,677	13,145
Average	11,857	13,345	15,532	12,182	7,913	5,101	4,752	3,605	3,819	4,688	6,656	9,467	8,215

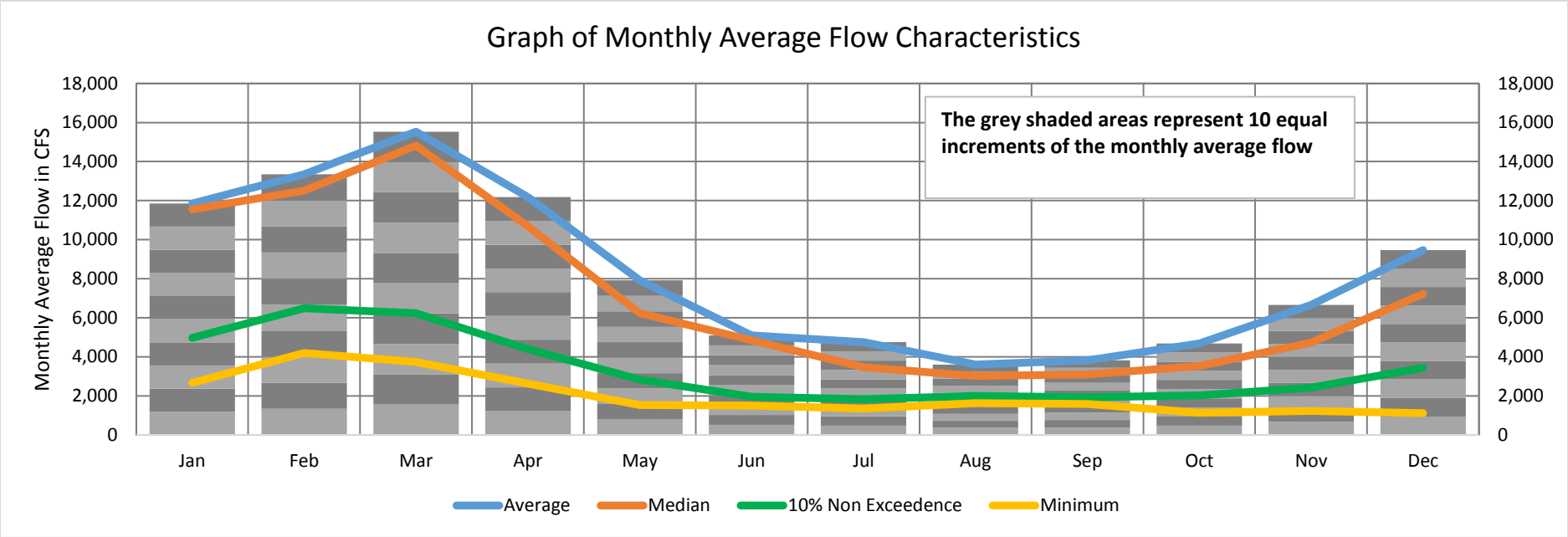
	Flows in CFS
Minimum	1,113.5
5th %	1,934
10th %	2,324
15th %	2,611
20th %	2,892
30th %	3,779
40th %	4,667
Median	5,987
60th %	7,471
70th %	10,386
80th %	13,123
90th %	17,468
Maximum	40,529
Average	8,243



Q10/Q50	0.39
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.21
Q5/DA	0.37
Q10/DA	0.44
Q15/DA	0.50
Q20/DA	0.55
Q30/DA	0.72
Q40/DA	0.89
Q50/DA	1.14
Q60/DA	1.42
Q70/DA	1.97
Q80/DA	2.49
Q90/DA	3.31
Qmax/DA	7.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

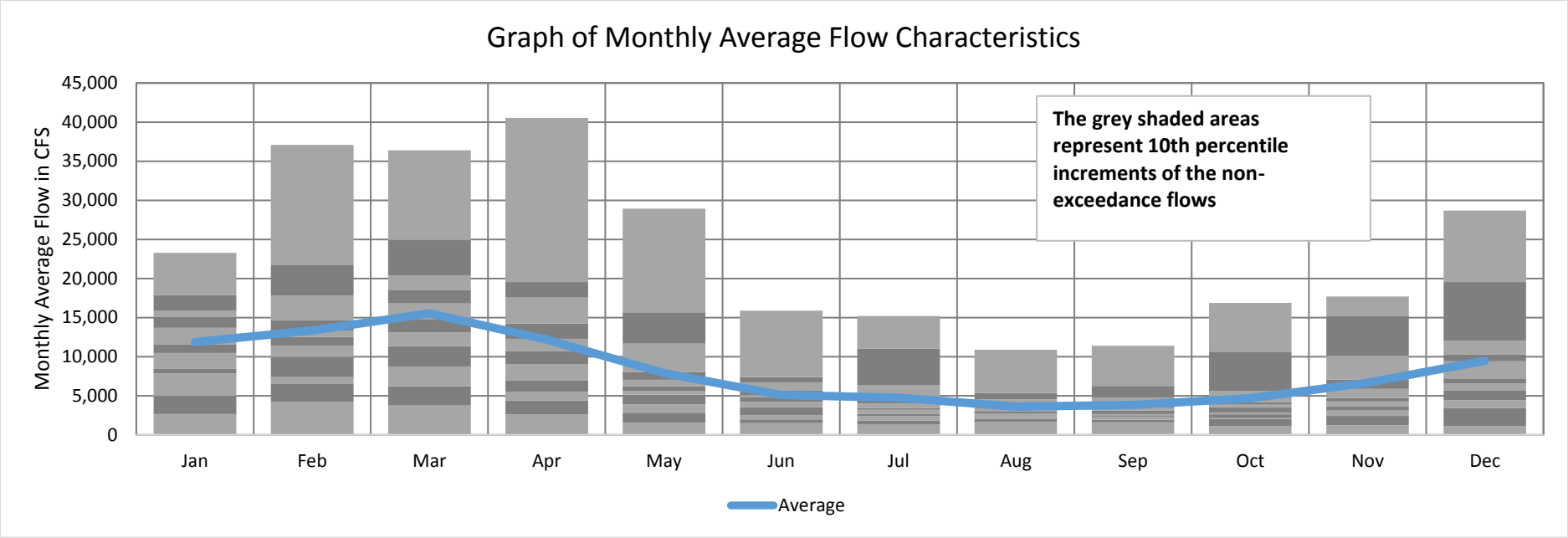
Site #: 02399500 Name: Coosa River at Leesburg, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,857	13,345	15,532	12,182	7,913	5,101	4,752	3,605	3,819	4,688	6,656	9,467
100%	23,271	37,085	36,401	40,529	28,924	15,865	15,185	10,891	11,395	16,879	17,708	28,677
98%	21,823	27,941	34,479	31,949	21,877	13,650	13,910	8,049	10,203	15,443	17,455	25,398
95%	20,148	24,695	29,291	26,870	16,308	12,435	12,656	7,098	9,673	12,422	17,274	23,425
90%	17,870	21,775	24,930	19,558	15,661	7,385	11,003	5,357	6,246	10,640	15,240	19,546
75%	15,479	15,982	19,674	16,458	9,340	6,302	5,407	4,274	4,327	4,621	8,209	10,372
50%	11,545	12,507	14,817	10,683	6,229	4,854	3,462	3,022	3,094	3,533	4,728	7,224
25%	8,046	8,985	10,131	5,853	4,114	2,898	2,596	2,355	2,389	2,320	3,445	5,329
10%	4,977	6,486	6,237	4,400	2,834	1,958	1,830	1,995	1,934	2,021	2,418	3,439
5%	3,346	4,933	4,838	3,424	2,431	1,747	1,747	1,854	1,891	1,853	2,140	3,025
2%	2,680	4,618	4,125	2,647	2,143	1,648	1,580	1,697	1,767	1,591	1,640	2,093
0%	2,667	4,193	3,739	2,631	1,524	1,507	1,353	1,628	1,585	1,126	1,229	1,114

Site #: 02399500 Name: Coosa River at Leesburg, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,270 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,857	13,345	15,532	12,182	7,913	5,101	4,752	3,605	3,819	4,688	6,656	9,467
100%	23,271	37,085	36,401	40,529	28,924	15,865	15,185	10,891	11,395	16,879	17,708	28,677
98%	21,823	27,941	34,479	31,949	21,877	13,650	13,910	8,049	10,203	15,443	17,455	25,398
95%	20,148	24,695	29,291	26,870	16,308	12,435	12,656	7,098	9,673	12,422	17,274	23,425
90%	17,870	21,775	24,930	19,558	15,661	7,385	11,003	5,357	6,246	10,640	15,240	19,546
75%	15,479	15,982	19,674	16,458	9,340	6,302	5,407	4,274	4,327	4,621	8,209	10,372
50%	11,545	12,507	14,817	10,683	6,229	4,854	3,462	3,022	3,094	3,533	4,728	7,224
25%	8,046	8,985	10,131	5,853	4,114	2,898	2,596	2,355	2,389	2,320	3,445	5,329
10%	4,977	6,486	6,237	4,400	2,834	1,958	1,830	1,995	1,934	2,021	2,418	3,439
5%	3,346	4,933	4,838	3,424	2,431	1,747	1,747	1,854	1,891	1,853	2,140	3,025
2%	2,680	4,618	4,125	2,647	2,143	1,648	1,580	1,697	1,767	1,591	1,640	2,093
0%	2,667	4,193	3,739	2,631	1,524	1,507	1,353	1,628	1,585	1,126	1,229	1,114

Monthly Flows (in CFS) for
02400100 - Terrapin Creek at Ellisville, Ala.

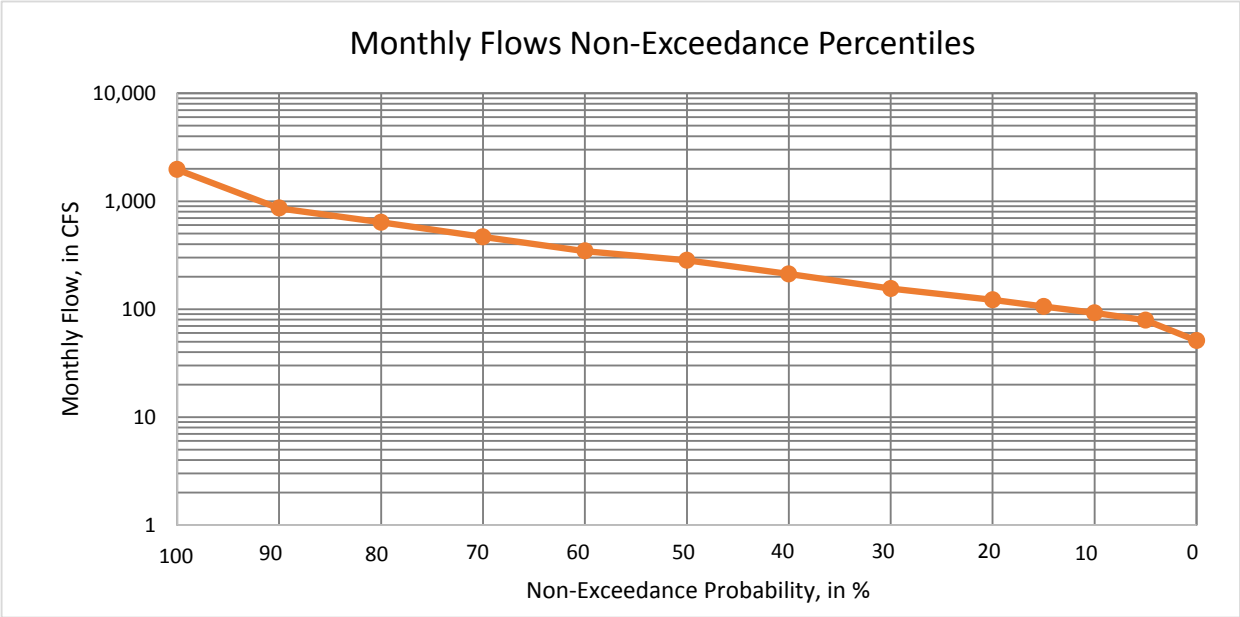
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	648	1,080	1,090	590	453	304	287	414	629	703	482	426	589
1976	1,068	478	1,470	898	549	323	305	167	142	139	174	345	506
1977	573	424	1,767	1,401	300	169	112	111	118	395	724	284	532
1978	859	343	432	362	662	454	143	155	90	84	98	179	322
1979	433	538	1,493	1,793	465	429	239	157	355	329	511	288	584
1980	709	572	1,537	1,104	742	311	150	105	124	353	204	165	507
1981	138	411	929	1,103	234	226	215	126	121	93	92	213	324
1982	824	1,211	503	1,215	439	249	193	135	101	138	245	1,000	516
1983	421	752	673	1,014	671	419	177	124	125	116	333	1,152	496
1984	541	518	470	823	714	196	399	759	135	118	136	199	417
1985	249	889	281	241	367	151	332	323	147	142	152	223	288
1986	158	235	273	143	113	91	74	74	92	89	229	212	148
1987	625	564	855	295	204	178	171	102	80	70	90	130	279
1988	428	368	200	288	134	79	87	71	108	68	149	98	172
1989	557	478	1,057	523	288	972	702	199	175	378	482	510	527
1990	1,177	1,961	1,726	407	287	154	125	100	89	85	103	313	536
1991	328	705	718	663	635	303	195	198	162	106	197	270	371
1992	626	904	638	503	224	305	232	288	283	178	741	858	478
1993	1,293	662	1,100	548	448	224	107	123	95	98	131	230	422
1994	413	629	794	925	254	163	403	341	250	306	191	552	434
1995	296	730	906	365	205	124	99	109	144	1,261	897	482	467
1996	1,159	1,057	1,396	500	295	257	139	206	243	172	344	494	519
1997	965	915	805	719	650	499	305	154	250	272	311	482	525
1998	1,010	1,403	1,057	1,200	361	305	169	189	107	122	153	301	525
1999	549	706	671	356	235	283	219	104	79	130	137	135	298
2000	229	215	368	708	153	102	75	61	58	64	176	132	194
2001	359	529	1,191	476	284	416	270	174	170	117	119	206	358
2002	609	363	388	352	381	130	127	107	197	248	548	988	370
2003	346	792	987	461	1,317	431	669	303	169	134	211	222	503
2004	334	633	345	212	248	172	156	119	321	138	661	654	330
2005	323	480	630	825	292	320	510	214	115	105	137	257	350
2006	448	675	551	390	215	123	92	84	98	107	252	165	264
2007	365	239	235	144	87	70	83	59	51	57	67	98	129
2008	120	318	422	315	235	96	70	81	65	64	71	271	176
2009	795	333	795	478	487	143	86	151	183	474	749	891	466
2010	678	804	918	423	420	208	109	100	92	83	83	100	333
2011	123	203	952	504	147	106	85	65	88	85	178	302	237
2012	338	247	377	130	98	71	74	82	63	108	69	116	148
2013	604	791	464	681	641	234	477	252	264	110	182	875	463
2014	678	748	519	700	288	294	155	118	102	105	156	304	344

Non-Exceedance Percentiles

02400100 - Terrapin Creek at Ellisville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	120	203	200	130	87	70	70	59	51	57	67	98	129
5th %	137	234	271	144	112	79	74	65	63	64	71	100	148
10th %	222	246	338	238	146	96	82	74	77	70	89	128	176
15th %	289	331	376	294	197	105	86	81	86	84	97	135	231
20th %	327	359	415	344	213	124	91	97	90	85	116	165	276
30th %	355	462	493	383	235	153	111	105	97	103	137	210	323
40th %	425	524	635	470	285	175	141	115	107	108	155	227	347
Median	545	600	756	504	293	225	163	125	122	117	180	277	394
60th %	606	687	875	619	373	267	194	155	143	136	207	303	464
70th %	657	749	962	711	450	304	234	178	169	151	270	443	498
80th %	801	821	1,092	904	566	320	305	207	207	279	482	518	517
90th %	1,016	1,059	1,472	1,113	663	429	410	305	266	380	667	877	527
Maximum	1,293	1,961	1,767	1,793	1,317	972	702	759	629	1,261	897	1,152	589
Average	560	648	799	619	380	252	215	170	157	199	274	378	386

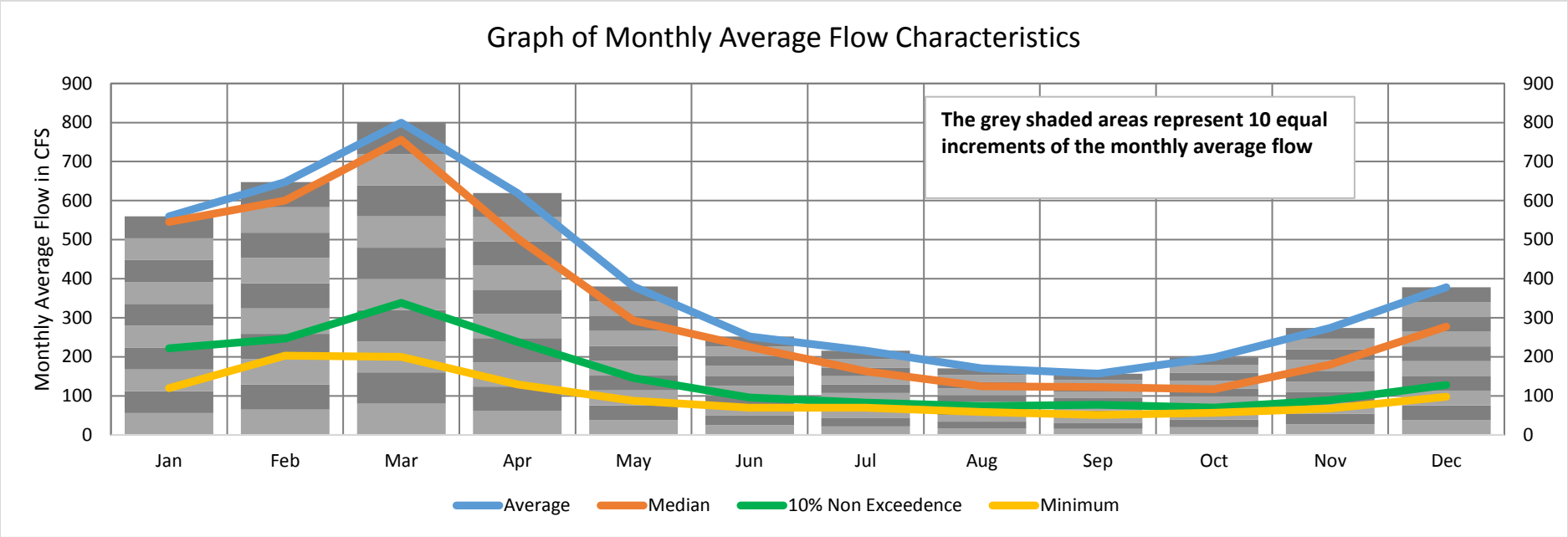
	Flows in CFS
Minimum	51.1
5th %	79
10th %	92
15th %	106
20th %	122
30th %	155
40th %	211
Median	283
60th %	345
70th %	467
80th %	635
90th %	861
Maximum	1,961
Average	388



Q10/Q50	0.33
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.20
Q5/DA	0.31
Q10/DA	0.37
Q15/DA	0.42
Q20/DA	0.48
Q30/DA	0.61
Q40/DA	0.84
Q50/DA	1.12
Q60/DA	1.37
Q70/DA	1.85
Q80/DA	2.52
Q90/DA	3.42
Qmax/DA	7.78

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

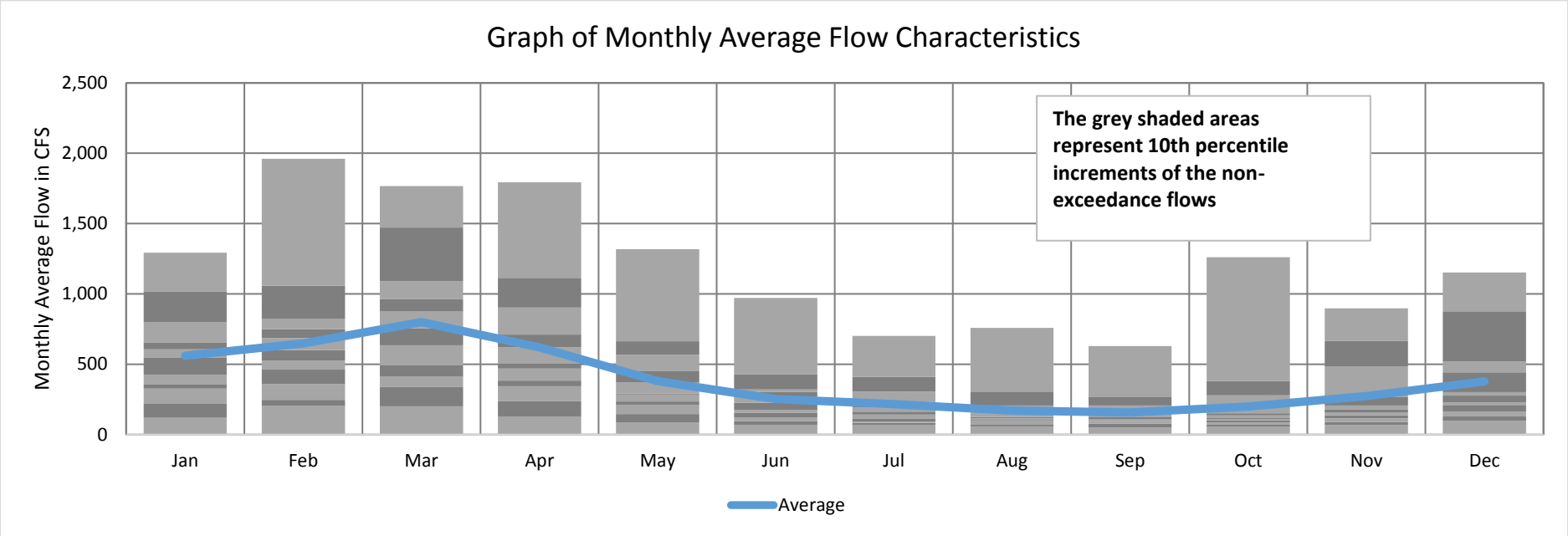
Site #: 02400100 Name: Terrapin Creek at Ellisville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	560	648	799	619	380	252	215	170	157	199	274	378
100%	1,293	1,961	1,767	1,793	1,317	972	702	759	629	1,261	897	1,152
98%	1,203	1,526	1,735	1,487	868	603	676	490	415	825	782	1,033
95%	1,160	1,221	1,547	1,224	715	456	518	344	323	485	741	989
90%	1,016	1,059	1,472	1,113	663	429	410	305	266	380	667	877
75%	686	791	1,057	823	471	306	274	198	177	196	336	485
50%	545	600	756	504	293	225	163	125	122	117	180	277
25%	337	400	456	361	231	139	105	102	92	92	135	194
10%	222	246	338	238	146	96	82	74	77	70	89	128
5%	137	234	271	144	112	79	74	65	63	64	71	100
2%	122	212	227	140	96	71	73	61	56	62	69	98
0%	120	203	200	130	87	70	70	59	51	57	67	98

Site #: 02400100 Name: Terrapin Creek at Ellisville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 252 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	560	648	799	619	380	252	215	170	157	199	274	378
100%	1,293	1,961	1,767	1,793	1,317	972	702	759	629	1,261	897	1,152
98%	1,203	1,526	1,735	1,487	868	603	676	490	415	825	782	1,033
95%	1,160	1,221	1,547	1,224	715	456	518	344	323	485	741	989
90%	1,016	1,059	1,472	1,113	663	429	410	305	266	380	667	877
75%	686	791	1,057	823	471	306	274	198	177	196	336	485
50%	545	600	756	504	293	225	163	125	122	117	180	277
25%	337	400	456	361	231	139	105	102	92	92	135	194
10%	222	246	338	238	146	96	82	74	77	70	89	128
5%	137	234	271	144	112	79	74	65	63	64	71	100
2%	122	212	227	140	96	71	73	61	56	62	69	98
0%	120	203	200	130	87	70	70	59	51	57	67	98

Monthly Flows (in CFS) for
02400500 - Coosa River at Gadsden, Ala.

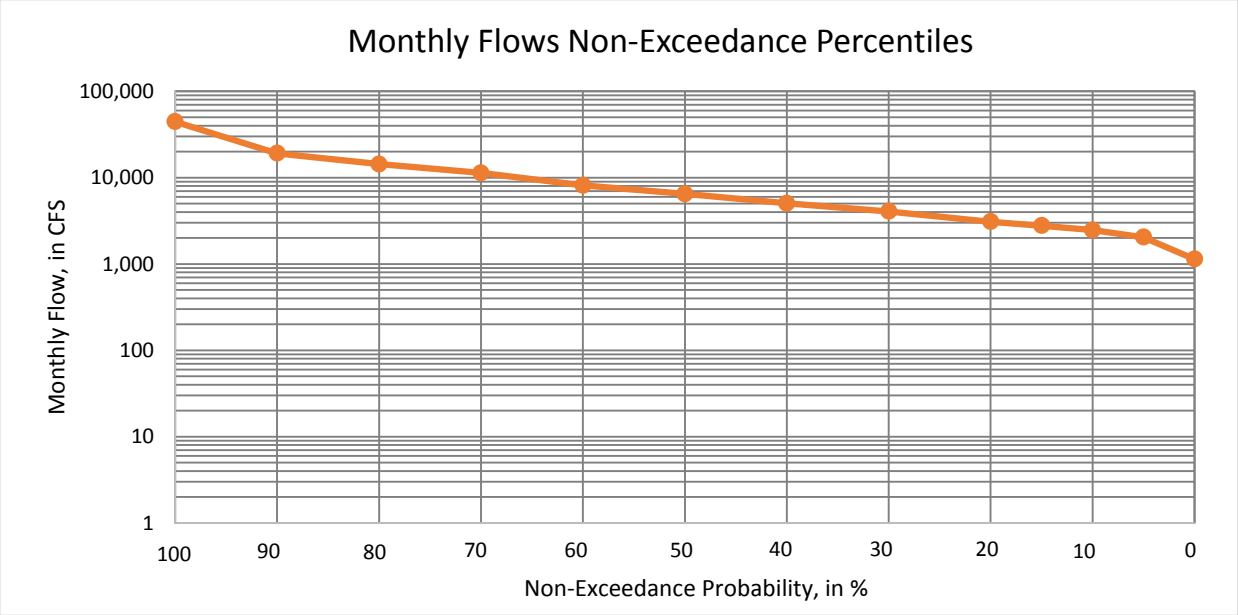
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	16,470	23,590	21,400	14,000	7,768	5,597	4,690	5,846	10,730	13,380	9,148	11,240	11,916
1976	16,960	12,320	24,380	18,980	10,170	7,517	12,500	4,587	3,753	3,704	4,441	2,512	10,150
1977	12,285	7,247	27,845	32,280	6,796	3,961	2,353	3,205	5,310	11,379	18,842	10,509	11,836
1978	20,189	10,887	12,414	5,950	13,595	5,820	2,811	4,388	2,832	2,235	2,795	5,534	7,460
1979	15,420	13,527	31,752	44,338	10,147	8,051	6,827	5,156	8,500	8,019	13,475	7,131	14,322
1980	14,899	13,721	39,813	29,213	17,267	6,023	3,805	2,463	3,022	4,890	5,152	4,728	12,083
1981	2,838	16,302	8,861	11,293	2,587	5,426	3,032	2,062	3,366	2,479	3,176	6,852	5,601
1982	21,925	27,714	14,321	19,040	8,502	5,368	4,440	3,892	2,505	4,155	7,187	26,739	12,061
1983	11,475	19,803	16,757	25,457	15,890	7,389	3,814	2,801	3,438	3,320	10,659	31,347	12,631
1984	19,040	11,827	14,232	16,363	17,583	4,680	6,733	11,853	3,246	4,445	4,625	7,185	10,169
1985	5,586	18,109	6,588	4,623	5,749	2,718	6,832	4,843	2,596	3,871	4,561	5,922	5,926
1986	3,621	5,333	5,252	2,799	1,585	1,833	1,716	1,700	1,908	1,954	8,835	10,170	3,881
1987	15,609	14,811	19,953	6,455	3,513	4,235	4,074	1,797	2,025	2,223	1,840	3,269	6,616
1988	10,107	7,137	4,556	4,751	3,052	1,766	1,398	1,955	5,790	3,094	6,838	4,812	4,582
1989	14,293	10,103	22,279	13,844	6,690	17,304	14,767	4,483	5,116	13,366	12,455	12,963	12,325
1990	23,388	40,563	37,113	9,148	7,530	3,699	3,615	2,838	2,458	3,916	3,908	7,992	12,028
1991	9,228	12,448	15,127	13,048	17,060	6,976	4,941	3,749	3,946	3,331	5,011	8,355	8,585
1992	11,915	13,942	15,372	7,764	3,654	5,690	4,190	5,780	6,568	4,368	18,297	20,122	9,773
1993	25,422	12,477	17,459	10,964	7,073	4,055	3,321	2,506	2,246	1,802	3,150	5,831	8,021
1994	9,133	14,082	17,685	20,896	5,627	4,894	8,317	5,428	5,733	9,345	6,047	13,659	10,045
1995	9,938	19,334	19,807	5,956	4,387	3,204	2,649	2,347	2,603	16,398	16,433	11,416	9,486
1996	19,425	25,505	27,174	11,811	6,276	5,306	3,516	3,772	4,534	4,108	6,848	11,187	10,708
1997	16,854	15,812	20,102	11,439	12,483	14,191	5,545	4,403	3,401	7,779	8,759	9,790	10,855
1998	19,247	26,944	22,275	20,483	8,618	5,251	3,510	3,578	2,544	2,253	3,359	6,261	10,251
1999	13,078	14,374	11,316	5,480	6,648	6,771	8,552	2,919	2,391	2,398	3,851	3,396	6,725
2000	4,967	4,511	8,769	20,692	3,749	2,079	1,929	2,106	1,992	2,145	4,103	3,717	5,044
2001	8,184	10,733	23,613	11,913	4,437	8,005	5,216	4,290	4,883	2,848	3,398	7,239	7,883
2002	12,620	8,743	8,293	9,047	7,854	2,754	2,588	2,203	4,559	5,250	12,455	21,262	8,141
2003	8,644	17,207	20,328	10,317	31,618	13,510	16,559	7,686	4,058	3,968	5,885	7,275	12,256
2004	8,688	15,386	6,770	4,784	5,278	5,220	4,776	3,250	10,507	5,671	19,324	18,634	8,962
2005	7,274	12,269	15,553	17,612	6,670	7,194	13,736	5,702	3,009	2,803	3,790	7,125	8,538
2006	11,218	12,749	10,129	6,903	5,812	2,590	2,146	2,504	1,653	3,032	7,168	4,682	5,840
2007	8,749	5,108	4,013	2,822	2,455	1,567	1,845	2,298	2,059	1,150	1,262	1,136	2,864
2008	2,857	8,010	9,574	5,885	5,787	2,382	1,836	4,637	2,545	2,180	2,283	10,348	4,852
2009	17,036	6,496	17,210	12,842	14,692	3,816	2,797	2,950	12,405	18,415	18,969	25,530	12,823
2010	16,453	20,916	19,346	8,601	9,018	4,875	2,821	2,755	2,036	1,994	2,586	4,380	7,913
2011	5,415	7,083	21,716	15,143	4,297	2,494	2,856	2,562	3,734	2,721	4,713	11,201	6,999
2012	12,519	7,949	12,280	3,713	2,746	1,895	2,378	3,014	2,781	3,027	2,377	7,675	5,201
2013	18,561	20,965	12,895	14,416	21,715	7,670	11,917	7,859	4,582	4,560	5,043	22,037	12,669
2014	14,924	15,643	13,244	19,655	7,141	6,459	3,607	2,476	2,671	4,179	5,386	10,516	8,772

Non-Exceedance Percentiles

02400500 - Coosa River at Gadsden, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,838	4,511	4,013	2,799	1,585	1,567	1,398	1,700	1,653	1,150	1,262	1,136	2,864
5th %	3,583	5,322	5,217	3,668	2,580	1,830	1,830	1,947	1,988	1,947	2,261	3,231	4,547
10th %	5,371	7,024	6,752	4,738	3,022	2,061	1,921	2,102	2,035	2,130	2,565	3,685	5,025
15th %	7,021	7,231	8,697	5,376	3,633	2,477	2,322	2,283	2,218	2,217	3,097	4,637	5,541
20th %	8,552	7,998	9,431	5,937	4,187	2,692	2,546	2,440	2,445	2,249	3,322	4,795	5,909
30th %	9,200	10,841	12,374	7,506	5,522	3,781	2,818	2,546	2,581	2,778	3,891	6,159	7,322
40th %	11,372	12,397	14,286	9,849	6,090	4,502	3,435	2,887	2,812	3,069	4,599	7,163	8,093
Median	12,570	13,624	16,155	11,625	6,743	5,235	3,710	3,228	3,306	3,787	5,097	7,833	8,867
60th %	14,909	14,549	18,349	13,366	7,625	5,495	4,290	3,820	3,742	4,127	6,363	10,241	10,087
70th %	16,458	15,959	20,169	15,509	8,738	6,154	5,023	4,427	4,541	4,480	7,658	11,191	10,752
80th %	17,341	19,428	22,276	19,163	12,705	7,233	6,828	4,905	5,155	6,092	11,018	13,102	12,035
90th %	19,502	23,781	27,241	21,352	17,081	8,010	11,975	5,786	6,761	11,577	16,620	21,339	12,355
Maximum	25,422	40,563	39,813	44,338	31,618	17,304	16,559	11,853	12,405	18,415	19,324	31,347	14,322
Average	12,911	14,542	16,939	13,268	8,588	5,506	5,124	3,866	4,101	5,054	7,211	10,292	8,920

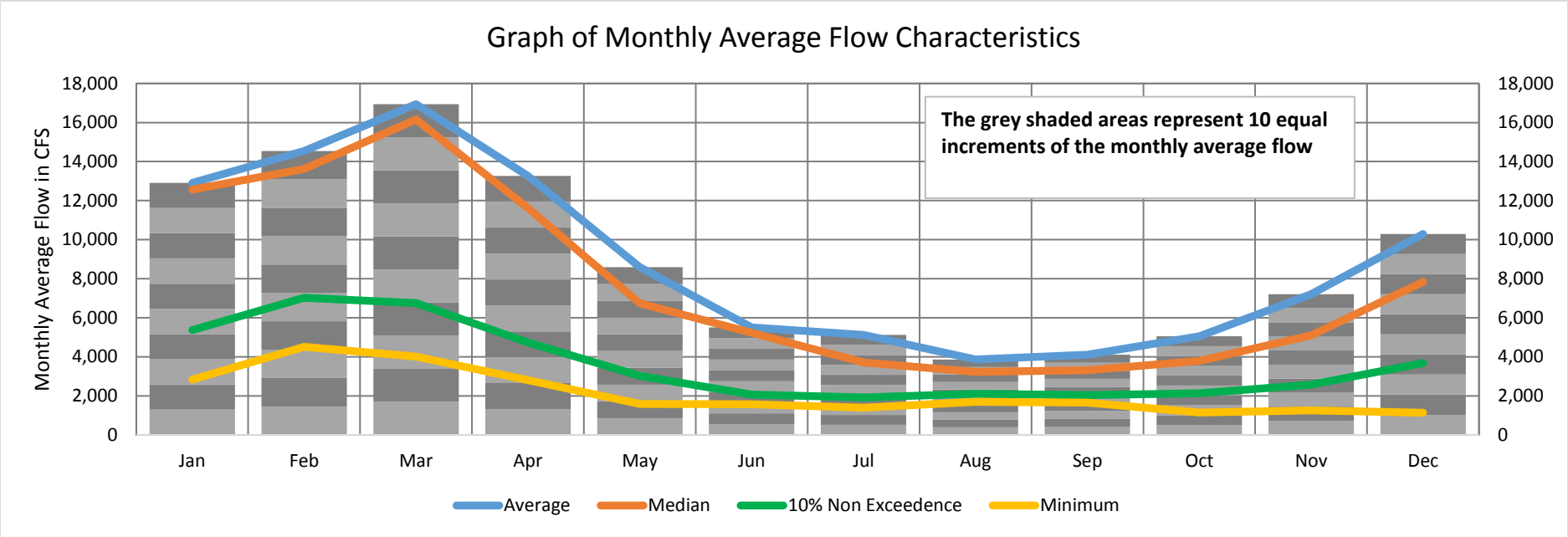
	Flows in CFS
Minimum	1,135.7
5th %	2,035
10th %	2,463
15th %	2,777
20th %	3,085
30th %	4,057
40th %	5,030
Median	6,478
60th %	8,104
70th %	11,299
80th %	14,299
90th %	19,061
Maximum	44,338
Average	8,950



Q10/Q50	0.38
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.20
Q5/DA	0.35
Q10/DA	0.42
Q15/DA	0.48
Q20/DA	0.53
Q30/DA	0.70
Q40/DA	0.87
Q50/DA	1.12
Q60/DA	1.40
Q70/DA	1.95
Q80/DA	2.46
Q90/DA	3.28
Qmax/DA	7.64

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

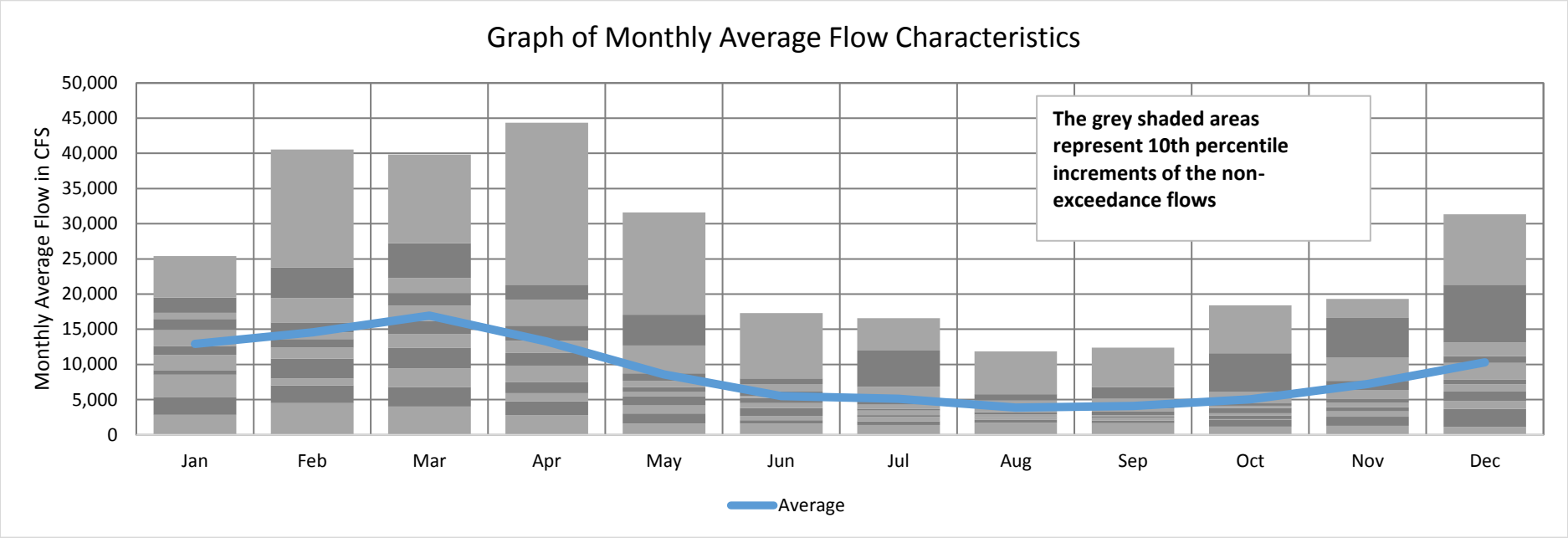
Site #: 02400500 Name: Coosa River at Gadsden, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,911	14,542	16,939	13,268	8,588	5,506	5,124	3,866	4,101	5,054	7,211	10,292
100%	25,422	40,563	39,813	44,338	31,618	17,304	16,559	11,853	12,405	18,415	19,324	31,347
98%	23,835	30,540	37,707	34,933	23,894	14,876	15,161	8,737	11,099	16,842	19,047	27,753
95%	21,998	26,982	32,020	29,366	17,790	13,544	13,787	7,695	10,518	13,531	18,848	25,591
90%	19,502	23,781	27,241	21,352	17,081	8,010	11,975	5,786	6,761	11,577	16,620	21,339
75%	16,881	17,433	21,479	17,954	10,153	6,823	5,842	4,600	4,657	4,980	8,913	11,284
50%	12,570	13,624	16,155	11,625	6,743	5,235	3,710	3,228	3,306	3,787	5,097	7,833
25%	8,734	9,763	11,019	6,331	4,424	3,091	2,760	2,497	2,534	2,459	3,692	5,757
10%	5,371	7,024	6,752	4,738	3,022	2,061	1,921	2,102	2,035	2,130	2,565	3,685
5%	3,583	5,322	5,217	3,668	2,580	1,830	1,830	1,947	1,988	1,947	2,261	3,231
2%	2,853	4,977	4,437	2,817	2,264	1,722	1,646	1,775	1,852	1,659	1,712	2,209
0%	2,838	4,511	4,013	2,799	1,585	1,567	1,398	1,700	1,653	1,150	1,262	1,136

Site #: 02400500 Name: Coosa River at Gadsden, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,805 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,911	14,542	16,939	13,268	8,588	5,506	5,124	3,866	4,101	5,054	7,211	10,292
100%	25,422	40,563	39,813	44,338	31,618	17,304	16,559	11,853	12,405	18,415	19,324	31,347
98%	23,835	30,540	37,707	34,933	23,894	14,876	15,161	8,737	11,099	16,842	19,047	27,753
95%	21,998	26,982	32,020	29,366	17,790	13,544	13,787	7,695	10,518	13,531	18,848	25,591
90%	19,502	23,781	27,241	21,352	17,081	8,010	11,975	5,786	6,761	11,577	16,620	21,339
75%	16,881	17,433	21,479	17,954	10,153	6,823	5,842	4,600	4,657	4,980	8,913	11,284
50%	12,570	13,624	16,155	11,625	6,743	5,235	3,710	3,228	3,306	3,787	5,097	7,833
25%	8,734	9,763	11,019	6,331	4,424	3,091	2,760	2,497	2,534	2,459	3,692	5,757
10%	5,371	7,024	6,752	4,738	3,022	2,061	1,921	2,102	2,035	2,130	2,565	3,685
5%	3,583	5,322	5,217	3,668	2,580	1,830	1,830	1,947	1,988	1,947	2,261	3,231
2%	2,853	4,977	4,437	2,817	2,264	1,722	1,646	1,775	1,852	1,659	1,712	2,209
0%	2,838	4,511	4,013	2,799	1,585	1,567	1,398	1,700	1,653	1,150	1,262	1,136

Monthly Flows (in CFS) for
02401000 - Big Wills Creek near Reece City, Ala.

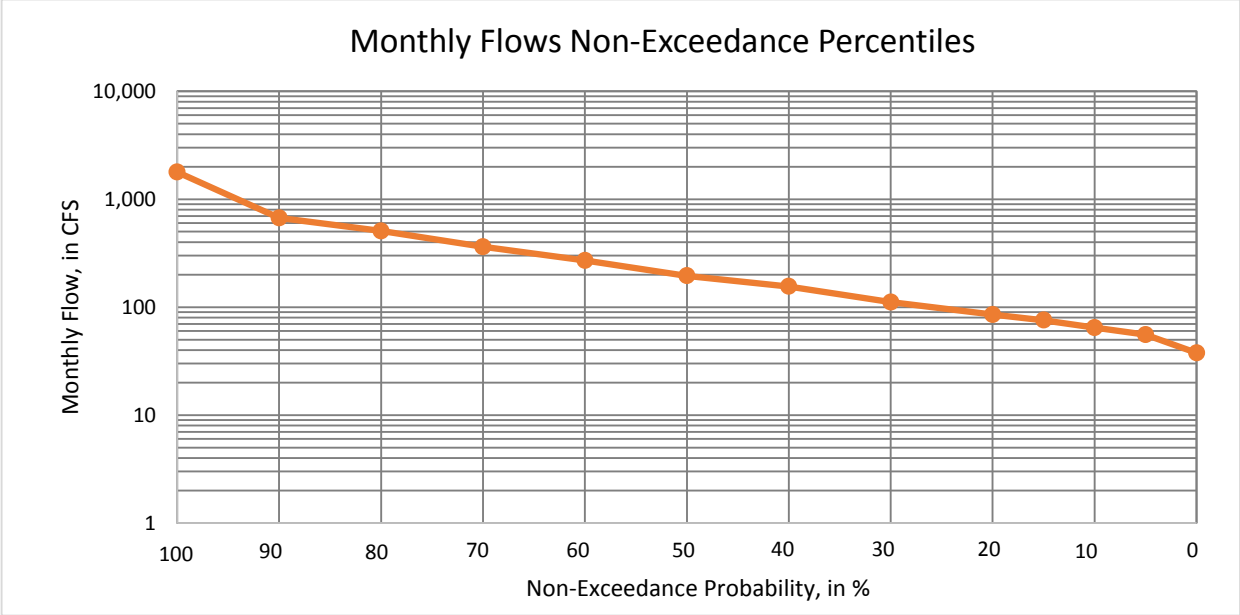
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	786	859	853	245	182	169	107	175	326	592	250	363	407
1976	640	225	623	200	263	206	429	85	76	70	98	321	271
1977	390	277	1,097	744	146	82	63	99	241	533	828	351	405
1978	689	202	418	207	470	116	70	88	72	54	63	234	225
1979	680	520	1,005	1,172	146	194	239	107	377	187	512	166	440
1980	297	268	1,737	564	292	93	61	53	90	109	181	156	326
1981	134	271	424	436	118	129	91	92	104	76	129	508	209
1982	1,102	763	450	570	175	82	84	103	74	77	340	1,236	420
1983	343	730	506	599	264	130	89	64	64	72	445	1,023	358
1984	416	283	420	490	612	88	241	330	56	85	111	200	279
1985	204	667	194	229	223	77	986	324	88	129	235	256	300
1986	167	330	250	128	88	69	66	79	96	54	268	255	153
1987	501	464	671	283	130	116	89	56	42	38	46	62	207
1988	267	173	128	222	87	45	48	51	179	61	191	118	130
1989	698	533	813	514	173	459	485	188	161	309	314	305	412
1990	839	1,783	968	275	293	168	105	69	69	65	73	303	409
1991	357	680	560	586	558	242	118	77	65	54	64	260	299
1992	282	497	461	268	116	181	155	149	179	87	606	632	299
1993	818	390	679	521	354	109	84	86	55	54	62	85	275
1994	365	557	761	696	218	178	462	162	176	408	236	701	410
1995	473	763	690	151	127	84	72	103	95	557	434	303	319
1996	924	628	927	524	208	163	98	105	141	103	167	346	360
1997	511	544	821	409	746	637	190	133	178	310	187	253	409
1998	670	746	596	834	255	191	109	92	69	57	70	166	318
1999	504	635	415	245	331	341	428	104	63	61	67	60	269
2000	183	157	361	629	111	113	66	52	72	45	180	96	171
2001	287	398	832	329	120	148	122	96	96	61	79	243	234
2002	499	336	391	412	319	97	76	64	139	134	294	550	276
2003	277	869	646	308	1,280	264	216	147	116	80	111	189	373
2004	411	536	356	177	174	146	271	98	525	147	1,106	710	386
2005	254	322	434	461	190	149	282	109	70	57	68	144	211
2006	285	275	230	238	195	79	58	47	48	84	155	92	148
2007	269	156	141	133	80	46	100	44	62	42	41	52	97
2008	196	384	440	209	166	79	66	133	68	46	53	497	194
2009	865	277	600	545	653	148	99	80	182	468	413	913	439
2010	644	610	577	397	419	166	101	73	53	63	76	173	278
2011	311	246	992	672	188	116	149	129	487	86	233	594	351
2012	613	444	458	152	98	78	81	65	119	101	57	276	211
2013	1,007	650	509	612	708	185	254	162	118	63	113	584	413
2014	349	508	325	673	337	164	141	92	79	166	163	330	275

Non-Exceedance Percentiles

02401000 - Big Wills Creek near Reece City, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	134	156	128	128	80	45	48	44	42	38	41	52	97
5th %	182	172	192	150	88	68	61	51	53	45	52	62	147
10th %	203	223	248	175	110	78	66	53	56	53	61	92	169
15th %	265	264	351	206	118	79	66	63	63	54	64	115	205
20th %	275	274	385	220	125	82	71	65	65	56	68	153	211
30th %	294	310	423	245	160	96	84	79	70	61	78	184	259
40th %	354	387	455	298	179	116	95	87	75	68	112	249	276
Median	414	480	535	410	202	138	103	94	92	78	165	268	299
60th %	502	534	609	500	258	155	119	103	109	86	189	311	322
70th %	641	615	682	550	300	168	166	108	140	115	240	354	364
80th %	691	670	823	601	367	186	244	136	178	170	319	557	407
90th %	841	763	970	675	616	244	428	163	250	414	452	701	412
Maximum	1,102	1,783	1,737	1,172	1,280	637	986	330	525	592	1,106	1,236	440
Average	488	499	594	426	290	158	176	109	134	146	228	353	299

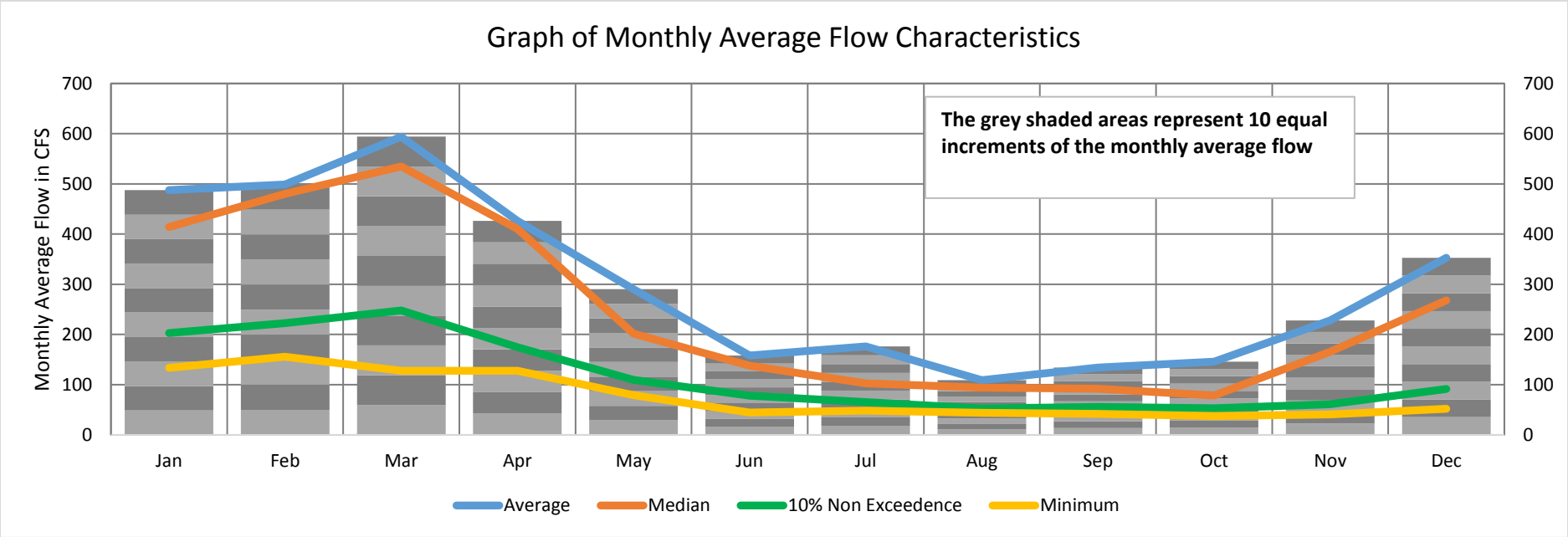
	Flows in CFS
Minimum	37.7
5th %	55
10th %	65
15th %	76
20th %	85
30th %	111
40th %	156
Median	195
60th %	271
70th %	362
80th %	508
90th %	671
Maximum	1,783
Average	300



Q10/Q50	0.33
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.21
Q5/DA	0.30
Q10/DA	0.35
Q15/DA	0.42
Q20/DA	0.47
Q30/DA	0.61
Q40/DA	0.85
Q50/DA	1.07
Q60/DA	1.49
Q70/DA	1.99
Q80/DA	2.79
Q90/DA	3.69
Qmax/DA	9.80

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

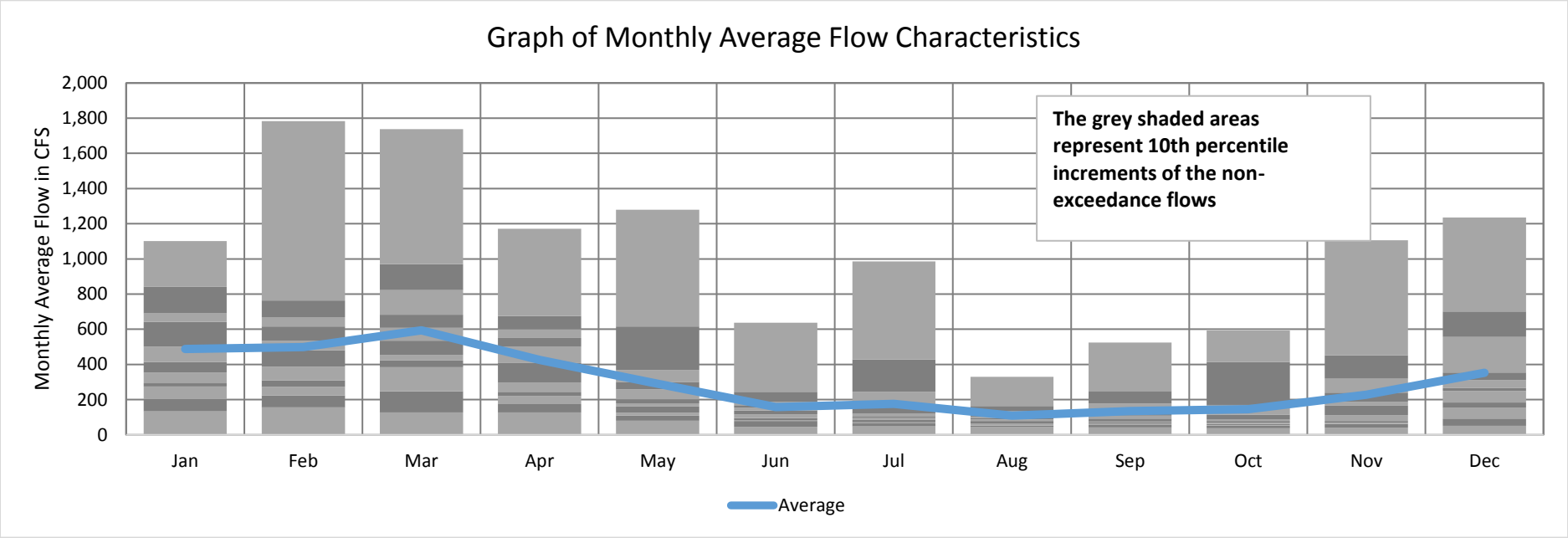
Site #: 02401000 Name: Big Wills Creek near Reece City, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	488	499	594	426	290	158	176	109	134	146	228	353
100%	1,102	1,783	1,737	1,172	1,280	637	986	330	525	592	1,106	1,236
98%	1,028	1,070	1,238	908	863	498	595	325	495	565	889	1,070
95%	928	859	1,010	749	710	347	463	194	383	534	617	919
90%	841	763	970	675	616	244	428	163	250	414	452	701
75%	672	639	774	574	332	178	222	130	165	137	275	500
50%	414	480	535	410	202	138	103	94	92	78	165	268
25%	284	277	417	236	142	87	79	72	69	60	72	166
10%	203	223	248	175	110	78	66	53	56	53	61	92
5%	182	172	192	150	88	68	61	51	53	45	52	62
2%	159	157	138	132	85	46	56	46	46	41	45	58
0%	134	156	128	128	80	45	48	44	42	38	41	52

Site #: 02401000 Name: Big Wills Creek near Reece City, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 182 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	488	499	594	426	290	158	176	109	134	146	228	353
100%	1,102	1,783	1,737	1,172	1,280	637	986	330	525	592	1,106	1,236
98%	1,028	1,070	1,238	908	863	498	595	325	495	565	889	1,070
95%	928	859	1,010	749	710	347	463	194	383	534	617	919
90%	841	763	970	675	616	244	428	163	250	414	452	701
75%	672	639	774	574	332	178	222	130	165	137	275	500
50%	414	480	535	410	202	138	103	94	92	78	165	268
25%	284	277	417	236	142	87	79	72	69	60	72	166
10%	203	223	248	175	110	78	66	53	56	53	61	92
5%	182	172	192	150	88	68	61	51	53	45	52	62
2%	159	157	138	132	85	46	56	46	46	41	45	58
0%	134	156	128	128	80	45	48	44	42	38	41	52

Monthly Flows (in CFS) for
02401390 - Big Canoe Creek at Ashville, Ala.

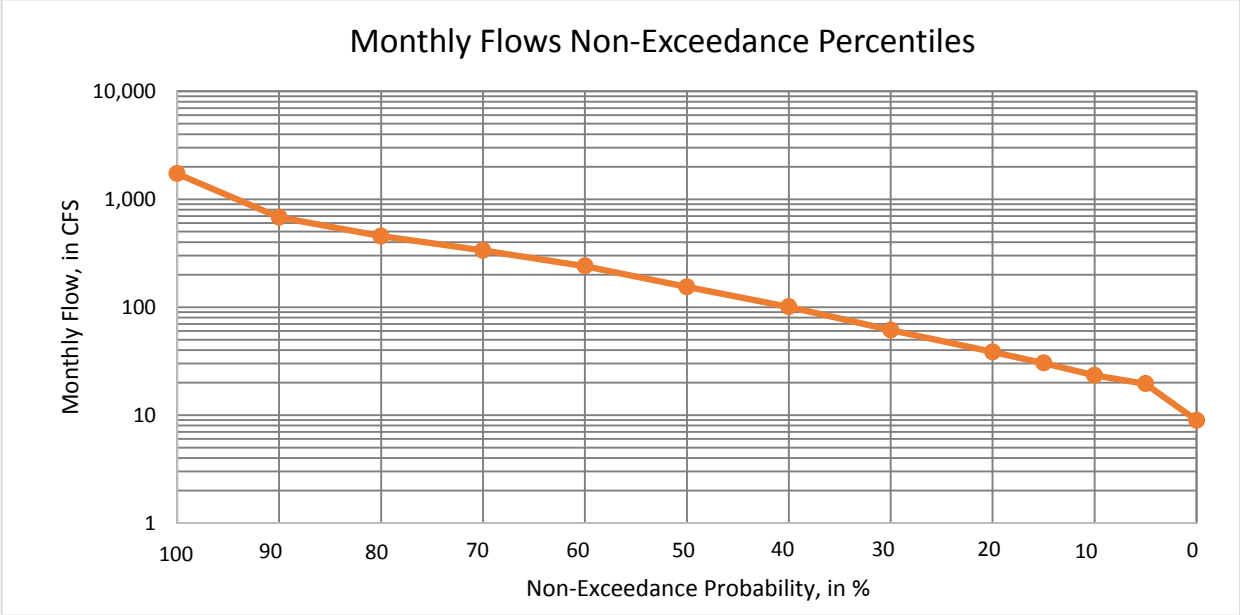
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	787	807	828	307	161	77	108	117	266	319	147	309	351
1976	745	259	1,385	408	365	81	97	52	45	26	34	208	311
1977	532	368	1,114	905	64	30	22	18	133	631	580	289	391
1978	621	150	424	116	380	148	32	31	21	20	17	81	171
1979	599	598	828	1,568	177	104	39	35	385	145	378	113	410
1980	448	354	1,720	777	370	92	42	25	52	85	86	59	343
1981	43	546	486	309	47	39	37	22	20	47	25	149	145
1982	549	790	294	782	218	276	105	86	27	36	185	933	354
1983	318	713	613	1,072	694	171	50	31	30	27	370	1,042	425
1984	499	268	305	759	490	97	68	82	23	24	66	138	235
1985	131	810	240	162	194	37	154	71	35	76	115	184	180
1986	108	201	151	49	53	25	22	19	21	37	211	227	93
1987	539	608	711	200	77	71	169	29	18	16	29	62	209
1988	400	292	172	257	66	22	31	20	285	82	327	144	173
1989	727	402	777	424	139	433	360	47	53	116	212	268	330
1990	714	1,219	689	140	102	47	44	20	18	18	21	173	261
1991	207	546	551	379	678	99	44	42	30	19	48	121	229
1992	241	410	264	190	54	76	66	171	363	48	785	646	274
1993	991	380	450	267	192	63	28	34	20	22	35	134	218
1994	401	474	782	435	90	138	414	105	194	381	269	654	362
1995	328	342	654	223	93	36	20	30	41	715	551	354	283
1996	965	473	1,054	232	154	55	95	79	75	51	134	231	300
1997	678	444	655	320	216	1,222	114	49	59	299	201	275	376
1998	943	979	741	564	87	48	36	27	16	13	19	124	296
1999	459	485	438	208	94	149	133	23	15	19	20	30	171
2000	119	117	471	687	39	23	15	16	12	11	109	78	141
2001	283	377	754	739	99	188	62	48	463	66	90	423	298
2002	428	261	361	221	273	41	78	25	73	115	287	543	226
2003	232	605	452	181	1,168	277	324	117	46	27	47	87	296
2004	248	786	293	146	150	261	148	51	508	159	1,377	497	380
2005	210	333	496	581	157	195	433	92	38	29	46	151	229
2006	360	571	393	304	178	29	21	39	23	37	101	97	177
2007	303	197	141	49	22	13	16	10	18	9	17	27	68
2008	47	268	272	182	294	66	23	211	36	20	16	268	142
2009	732	340	648	362	454	102	31	52	320	489	515	711	397
2010	444	488	649	344	356	219	52	38	21	20	60	100	231
2011	164	193	899	518	121	56	86	28	470	46	213	476	273
2012	553	300	443	84	71	45	38	65	109	48	33	282	173
2013	778	630	429	439	769	284	175	275	51	33	83	490	369
2014	265	438	312	700	160	136	40	25	28	55	106	348	216

Non-Exceedance Percentiles

02401390 - Big Canoe Creek at Ashville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	43	117	141	49	22	13	15	10	12	9	16	27	68
5th %	104	191	171	82	46	23	20	18	16	13	17	58	138
10th %	130	201	261	137	54	29	22	20	18	17	20	77	144
15th %	200	260	290	159	66	35	23	22	19	19	24	86	171
20th %	227	268	303	181	76	38	30	25	20	20	33	100	173
30th %	278	338	415	217	94	48	37	28	23	25	47	131	214
40th %	347	373	447	263	132	65	41	31	30	31	76	150	229
Median	436	424	491	315	158	79	51	38	39	41	104	217	267
60th %	512	478	648	391	184	100	72	48	51	49	139	271	296
70th %	567	554	696	462	235	141	100	56	73	78	211	321	317
80th %	717	612	778	689	366	189	136	83	208	122	295	479	355
90th %	779	792	914	777	509	276	190	117	365	325	519	647	381
Maximum	991	1,219	1,720	1,568	1,168	1,222	433	275	508	715	1,377	1,042	425
Average	453	471	583	415	239	139	97	59	111	111	199	288	263

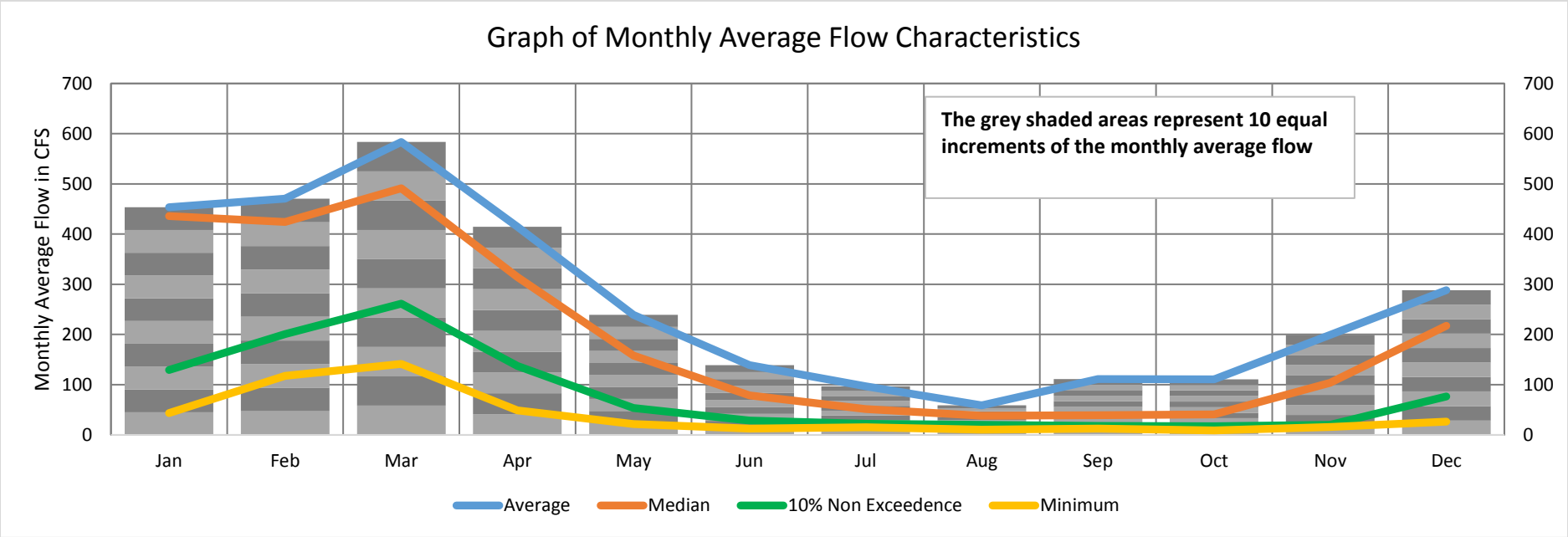
	Flows in CFS
Minimum	8.9
5th %	19
10th %	23
15th %	30
20th %	38
30th %	61
40th %	101
Median	154
60th %	240
70th %	335
80th %	455
90th %	679
Maximum	1,720
Average	264



Q10/Q50	0.15
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.06
Q5/DA	0.14
Q10/DA	0.17
Q15/DA	0.21
Q20/DA	0.27
Q30/DA	0.43
Q40/DA	0.71
Q50/DA	1.09
Q60/DA	1.70
Q70/DA	2.38
Q80/DA	3.23
Q90/DA	4.82
Qmax/DA	12.20

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

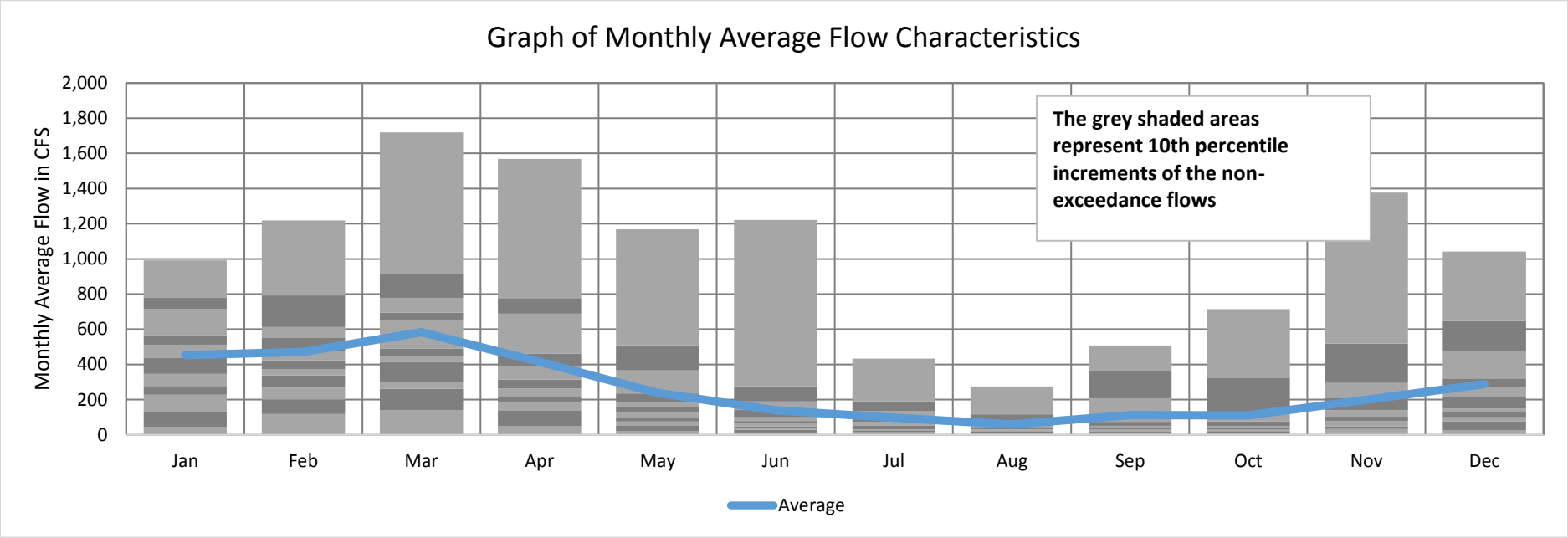
Site #: 02401390 Name: Big Canoe Creek at Ashville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	453	471	583	415	239	139	97	59	111	111	199	288
100%	991	1,219	1,720	1,568	1,168	1,222	433	275	508	715	1,377	1,042
98%	970	1,032	1,459	1,181	857	606	418	225	478	650	915	957
95%	944	818	1,128	913	698	292	363	173	463	496	590	722
90%	779	792	914	777	509	276	190	117	365	325	519	647
75%	635	599	744	569	309	154	110	73	115	92	227	371
50%	436	424	491	315	158	79	51	38	39	41	104	217
25%	246	298	349	197	89	44	31	25	21	22	35	119
10%	130	201	261	137	54	29	22	20	18	17	20	77
5%	104	191	171	82	46	23	20	18	16	13	17	58
2%	46	143	149	49	35	20	16	14	14	10	16	29
0%	43	117	141	49	22	13	15	10	12	8.9	16	27

Site #: 02401390 Name: Big Canoe Creek at Ashville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 141 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	453	471	583	415	239	139	97	59	111	111	199	288
100%	991	1,219	1,720	1,568	1,168	1,222	433	275	508	715	1,377	1,042
98%	970	1,032	1,459	1,181	857	606	418	225	478	650	915	957
95%	944	818	1,128	913	698	292	363	173	463	496	590	722
90%	779	792	914	777	509	276	190	117	365	325	519	647
75%	635	599	744	569	309	154	110	73	115	92	227	371
50%	436	424	491	315	158	79	51	38	39	41	104	217
25%	246	298	349	197	89	44	31	25	21	22	35	119
10%	130	201	261	137	54	29	22	20	18	17	20	77
5%	104	191	171	82	46	23	20	18	16	13	17	58
2%	46	143	149	49	35	20	16	14	14	10	16	29
0%	43	117	141	49	22	13	15	10	12	8.9	16	27

Monthly Flows (in CFS) for
02401460 - Gulf Creek near Ashville, Ala.

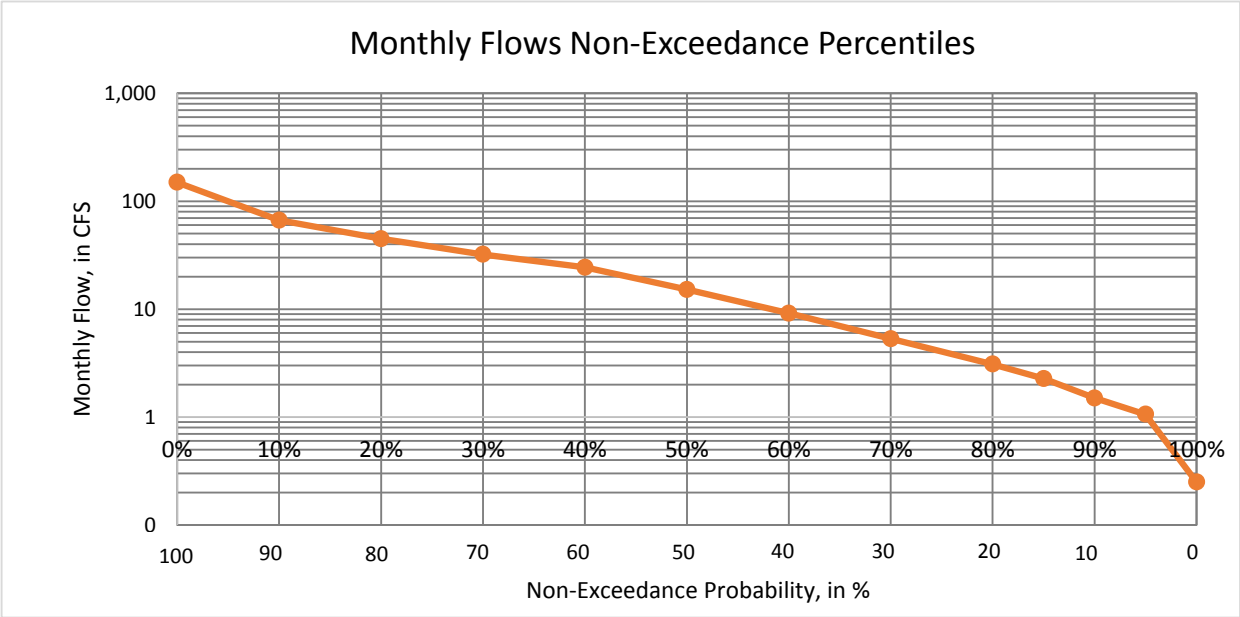
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	77	79	81	30	15	7	10	11	26	31	14	30	34
1976	73	25	136	40	36	7	9	5	4	2	3	20	30
1977	52	36	109	89	6	2	2	1	13	62	57	28	38
1978	61	14	41	11	37	14	3	3	2	1	1	5	16
1979	65	63	83	149	16	8	6	7	19	20	57	16	42
1980	32	74	125	38	46	7	2	1	1	3	5	8	28
1981	3	63	47	28	3	1	0	0	0	1	0	30	14
1982	71	77	35	77	27	30	7	4	1	1	23	133	40
1983	32	71	59	103	51	8	4	1	1	0	29	111	39
1984	50	27	37	77	43	5	8	5	1	1	1	2	21
1985	13	71	26	16	17	1	11	16	8	7	11	18	18
1986	10	19	14	4	5	2	2	1	2	3	20	22	9
1987	53	59	70	19	7	6	16	2	1	1	2	6	20
1988	39	28	16	25	6	2	3	1	28	8	32	14	17
1989	71	39	76	41	13	42	35	4	5	11	20	26	32
1990	70	120	68	13	10	4	4	1	1	1	2	17	25
1991	20	53	54	37	66	9	4	4	2	1	4	11	22
1992	23	40	26	18	5	7	6	16	35	4	77	63	27
1993	97	37	44	26	18	6	2	3	1	2	3	13	21
1994	39	46	77	42	8	13	40	10	19	37	26	64	35
1995	32	33	64	22	9	3	1	2	4	70	54	34	27
1996	95	46	104	22	15	5	9	7	7	5	13	22	29
1997	66	43	64	31	21	120	11	4	5	29	19	27	37
1998	93	96	73	55	8	4	3	2	1	1	1	12	29
1999	45	47	43	20	9	14	13	2	1	1	1	2	16
2000	11	11	46	67	3	2	1	1	1	1	10	7	13
2001	27	37	74	72	9	18	6	4	45	6	8	41	29
2002	42	25	35	21	26	4	7	2	7	11	28	53	22
2003	22	59	44	17	115	27	31	11	4	2	4	8	29
2004	24	77	28	14	14	25	14	4	50	15	135	49	37
2005	20	32	48	57	15	19	42	9	3	2	4	14	22
2006	35	56	38	30	17	2	2	3	2	3	9	9	17
2007	29	19	13	4	2	1	1	1	1	0	1	2	6
2008	4	26	26	17	28	6	2	20	3	1	1	26	13
2009	72	33	63	35	44	10	3	5	31	48	50	70	39
2010	43	48	64	33	35	21	5	3	2	1	5	9	22
2011	16	19	88	51	11	5	8	2	46	4	21	46	26
2012	54	29	43	8	7	4	3	6	10	4	3	27	17
2013	76	62	42	43	75	28	17	27	5	3	8	48	36
2014	26	43	30	69	15	13	3	2	2	5	10	34	21

Non-Exceedance Percentiles

02401460 - Gulf Creek near Ashville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	3	11	13	4	2	1	0	0	0	0	0	2	6
5th %	10	18	16	8	3	1	1	1	1	1	1	2	13
10th %	13	19	26	13	5	2	2	1	1	1	1	6	14
15th %	19	25	28	16	6	2	2	1	1	1	1	8	16
20th %	22	27	34	17	7	3	2	1	1	1	2	9	17
30th %	27	33	40	21	9	4	3	2	1	1	4	12	21
40th %	32	37	44	25	12	5	4	3	2	2	5	16	22
Median	40	43	48	30	15	7	5	3	3	3	10	22	26
60th %	51	47	63	37	17	8	7	4	5	4	13	27	29
70th %	62	59	68	43	26	13	9	5	7	6	20	31	29
80th %	71	64	76	59	36	18	12	8	19	12	28	47	35
90th %	76	77	90	77	46	27	18	12	31	32	54	63	38
Maximum	97	120	136	149	115	120	42	27	50	70	135	133	42
Average	45	47	56	39	23	13	9	5	10	10	19	29	25

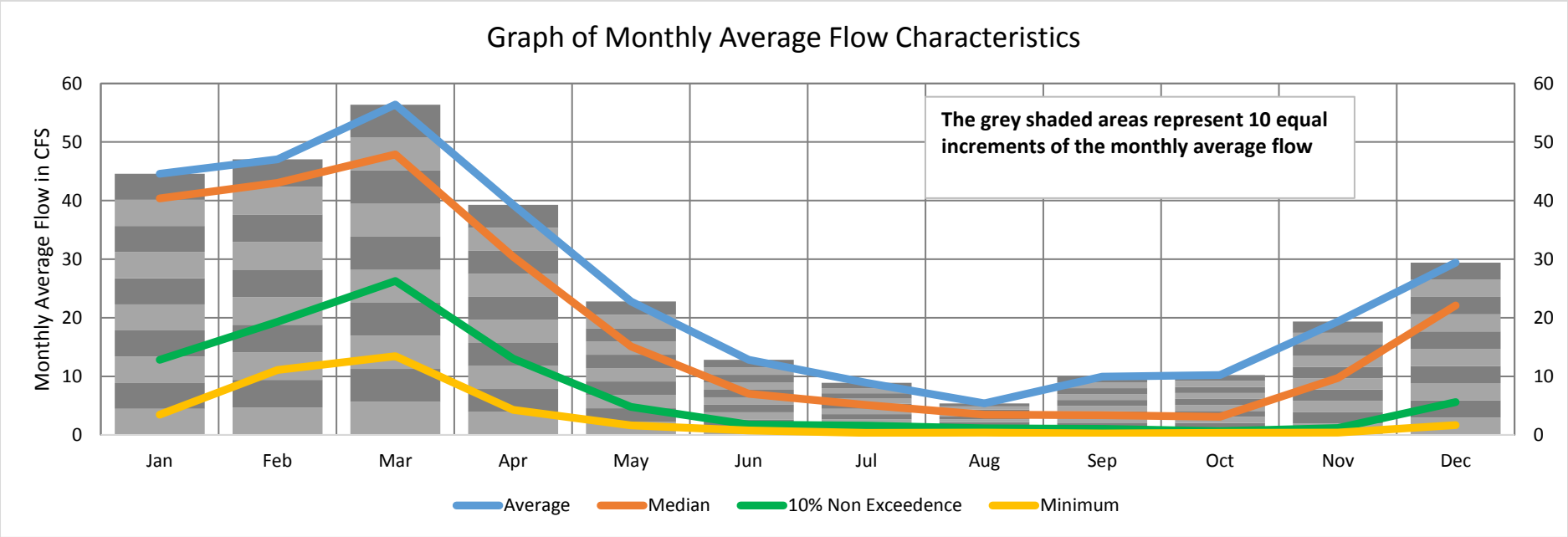
	Flows in CFS
Minimum	0.3
5th %	1
10th %	1
15th %	2
20th %	3
30th %	5
40th %	9
Median	15
60th %	24
70th %	32
80th %	45
90th %	67
Maximum	149
Average	26



Q10/Q50	0.10
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.02
Q5/DA	0.07
Q10/DA	0.10
Q15/DA	0.16
Q20/DA	0.22
Q30/DA	0.37
Q40/DA	0.64
Q50/DA	1.06
Q60/DA	1.70
Q70/DA	2.25
Q80/DA	3.14
Q90/DA	4.65
Qmax/DA	10.43

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

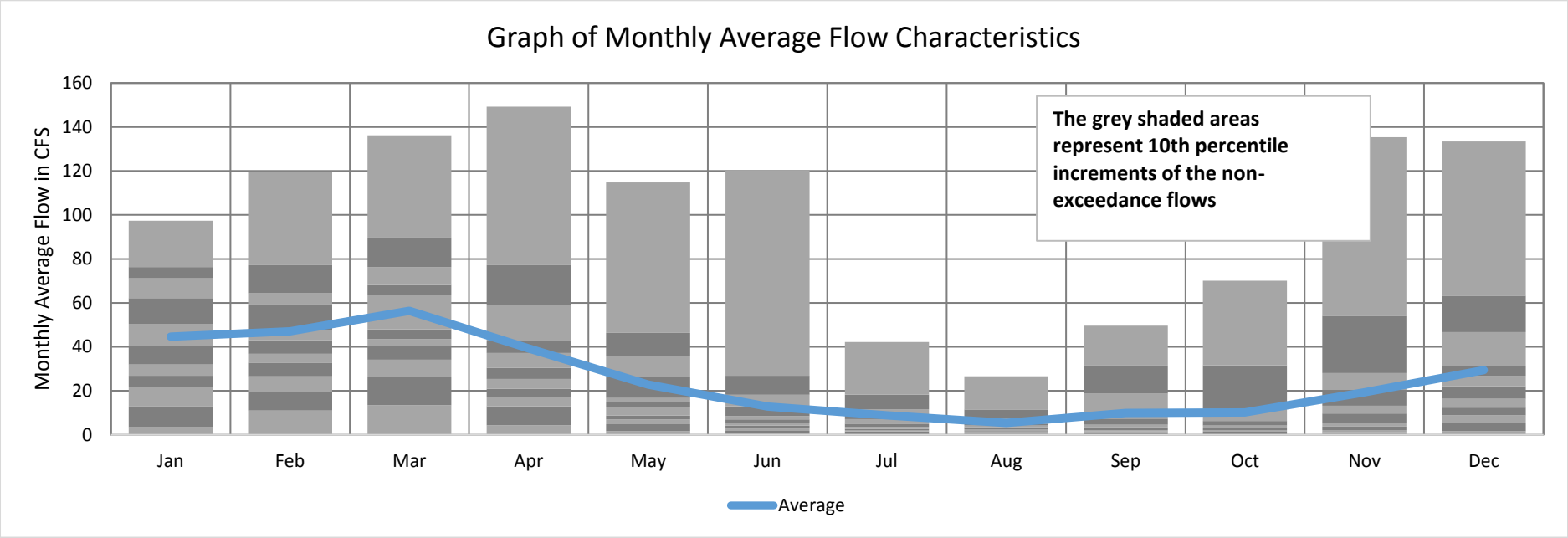
Site #: 02401460 Name: Gulf Creek near Ashville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	45	47	56	39	23	13	8.9	5.4	10.0	10	19	29
100%	97	120	136	149	115	120	42	27	50	70	135	133
98%	95	101	128	113	84	59	41	22	47	64	90	116
95%	93	80	110	90	67	30	35	17	45	48	58	72
90%	76	77	90	77	46	27	18	12	31	32	54	63
75%	67	62	73	52	30	14	10	6.1	11	8.4	24	36
50%	40	43	48	30	15	7.0	5.1	3.5	3.4	3.1	9.7	22
25%	24	29	36	19	8.3	3.9	2.5	1.9	1.4	1.3	2.8	11
10%	13	19	26	13	4.8	1.8	1.6	1.1	1.0	0.6	1.2	5.6
5%	9.8	18	16	7.6	3.3	1.4	1.1	1.0	0.7	0.6	1.0	2.4
2%	3.9	14	14	4.3	2.4	1.3	0.8	0.5	0.5	0.4	0.7	2.0
0%	3.4	11	13	4.3	1.6	0.7	0.3	0.4	0.3	0.4	0.4	1.7

Site #: 02401460 Name: Gulf Creek near Ashville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 14 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	45	47	56	39	23	13	8.9	5.4	10.0	10	19	29
100%	97	120	136	149	115	120	42	27	50	70	135	133
98%	95	101	128	113	84	59	41	22	47	64	90	116
95%	93	80	110	90	67	30	35	17	45	48	58	72
90%	76	77	90	77	46	27	18	12	31	32	54	63
75%	67	62	73	52	30	14	10	6.1	11	8.4	24	36
50%	40	43	48	30	15	7.0	5.1	3.5	3.4	3.1	9.7	22
25%	24	29	36	19	8.3	3.9	2.5	1.9	1.4	1.3	2.8	11
10%	13	19	26	13	4.8	1.8	1.6	1.1	1.0	0.6	1.2	5.6
5%	9.8	18	16	7.6	3.3	1.4	1.1	1.0	0.7	0.6	1.0	2.4
2%	3.9	14	14	4.3	2.4	1.3	0.8	0.5	0.5	0.4	0.7	2.0
0%	3.4	11	13	4.3	1.6	0.7	0.3	0.4	0.3	0.4	0.4	1.7

Monthly Flows (in CFS) for
02401470 - Little Canoe Creek near Steele, Ala.

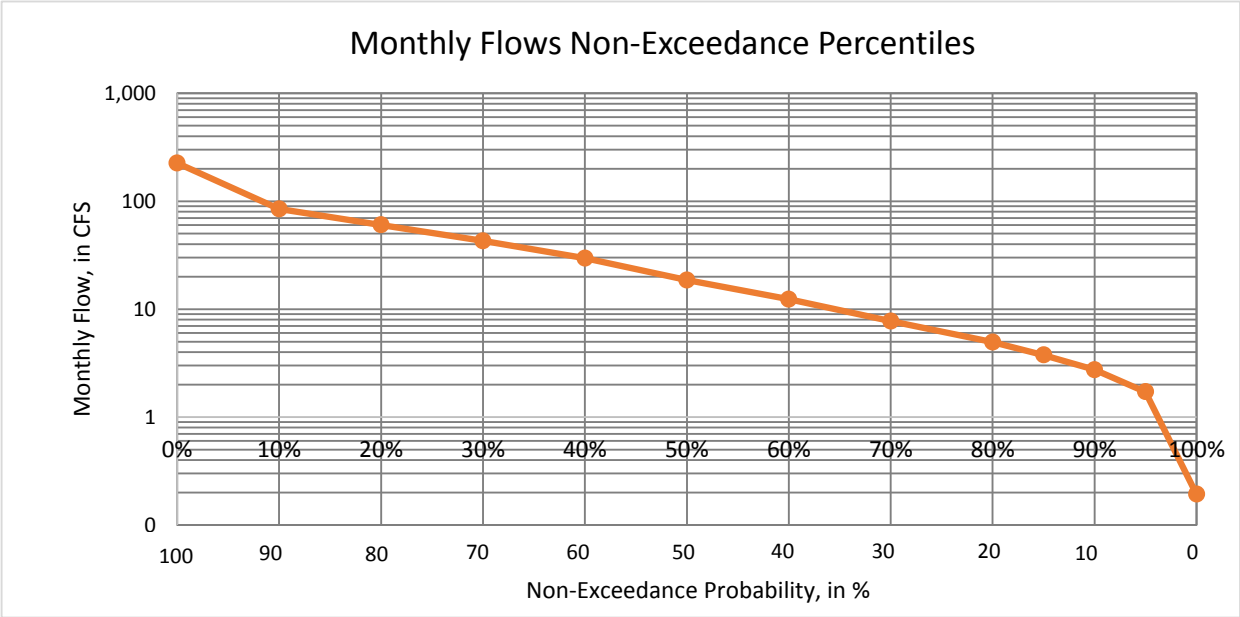
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	103	105	108	39	20	9	13	14	34	41	18	40	45
1976	97	33	181	53	47	10	12	6	5	2	4	26	40
1977	69	47	146	118	7	3	2	1	17	82	75	37	50
1978	81	19	55	14	49	19	3	3	2	2	1	10	22
1979	78	78	108	206	22	13	4	4	50	18	49	14	53
1980	58	46	226	101	48	11	5	2	6	10	10	7	44
1981	5	71	63	40	5	4	4	2	2	5	2	19	18
1982	71	103	38	65	24	10	8	6	3	4	18	142	41
1983	43	86	82	125	89	21	12	5	4	8	32	117	52
1984	58	35	51	93	52	10	13	7	4	4	7	15	29
1985	14	76	32	23	15	7	16	12	14	11	18	18	21
1986	15	24	25	10	7	5	5	4	4	6	18	25	12
1987	55	73	79	31	10	7	38	7	4	3	2	2	26
1988	36	38	22	31	9	5	12	12	64	9	45	24	25
1989	130	82	86	53	21	50	82	11	8	11	23	29	49
1990	87	194	101	23	16	7	6	3	3	2	4	17	38
1991	32	76	69	62	71	16	9	6	4	3	6	17	30
1992	30	51	54	19	6	9	21	16	15	6	83	85	33
1993	117	53	60	36	19	13	10	5	2	3	4	12	28
1994	34	59	121	66	14	9	14	8	11	57	27	77	41
1995	43	64	99	30	11	4	2	3	4	93	72	46	39
1996	126	61	138	30	19	6	12	9	9	6	17	29	39
1997	88	58	85	41	27	160	14	5	7	38	25	35	49
1998	123	128	97	73	10	5	4	3	1	1	2	15	38
1999	60	63	57	26	11	19	17	2	1	2	2	3	22
2000	15	14	61	89	4	2	1	1	1	0	13	9	18
2001	36	49	98	96	12	24	7	5	60	8	11	55	38
2002	55	33	47	28	35	4	9	2	9	14	37	71	29
2003	30	79	59	23	153	35	42	14	5	3	5	10	38
2004	32	103	38	18	19	33	19	6	66	20	180	64	49
2005	27	43	64	76	20	25	56	11	4	3	5	19	29
2006	46	74	51	39	22	3	2	4	2	4	12	12	22
2007	39	25	18	5	2	1	1	0	1	0	1	3	8
2008	5	34	35	23	38	8	2	27	4	2	1	34	18
2009	95	44	84	47	59	12	3	6	41	63	67	93	51
2010	58	63	85	44	46	28	6	4	2	2	7	12	29
2011	21	24	117	67	15	6	10	3	61	5	27	62	35
2012	72	38	57	10	8	5	4	8	13	5	3	36	22
2013	101	82	56	57	100	36	22	35	6	3	10	63	48
2014	34	57	40	91	20	17	4	2	3	6	13	45	27

Non-Exceedance Percentiles

02401470 - Little Canoe Creek near Steele, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	5	14	18	5	2	1	1	0	1	0	1	2	8
5th %	14	24	25	10	5	3	2	1	1	1	1	3	17
10th %	15	25	35	18	7	4	2	2	2	2	2	9	18
15th %	26	33	38	22	8	4	3	2	2	2	2	10	21
20th %	30	35	45	23	10	5	4	2	2	2	3	12	22
30th %	34	44	54	29	12	6	4	3	3	3	5	15	27
40th %	41	50	58	34	16	7	6	4	4	4	9	18	29
Median	55	58	64	40	19	9	9	5	5	5	13	26	34
60th %	59	64	83	53	21	12	12	6	6	6	18	35	38
70th %	74	75	89	65	30	16	13	7	10	9	24	41	40
80th %	90	79	103	78	47	22	16	11	15	15	33	62	46
90th %	104	103	123	97	60	34	24	14	51	43	67	78	49
Maximum	130	194	226	206	153	160	82	35	66	93	180	142	53
Average	58	62	77	53	30	17	13	7	14	14	24	36	34

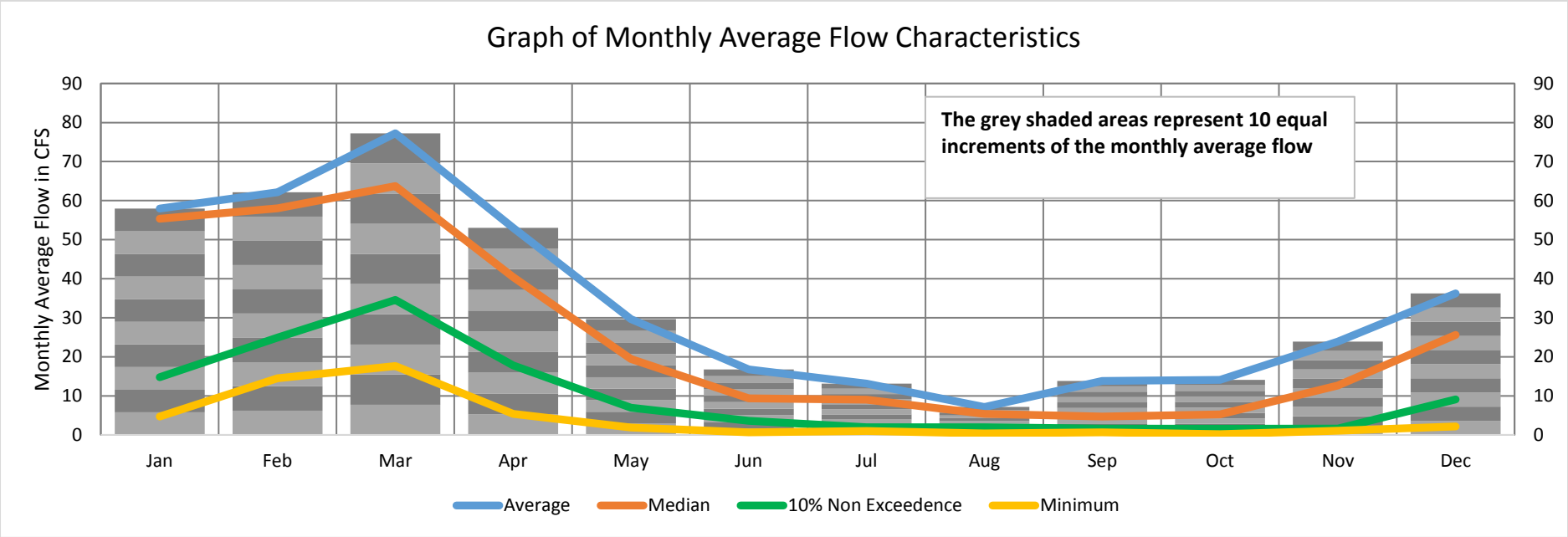
	Flows in CFS
Minimum	0.2
5th %	2
10th %	3
15th %	4
20th %	5
30th %	8
40th %	12
Median	19
60th %	30
70th %	43
80th %	60
90th %	85
Maximum	226
Average	34



Q10/Q50	0.15
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.01
Q5/DA	0.08
Q10/DA	0.12
Q15/DA	0.17
Q20/DA	0.22
Q30/DA	0.35
Q40/DA	0.55
Q50/DA	0.83
Q60/DA	1.33
Q70/DA	1.92
Q80/DA	2.70
Q90/DA	3.79
Qmax/DA	10.12

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

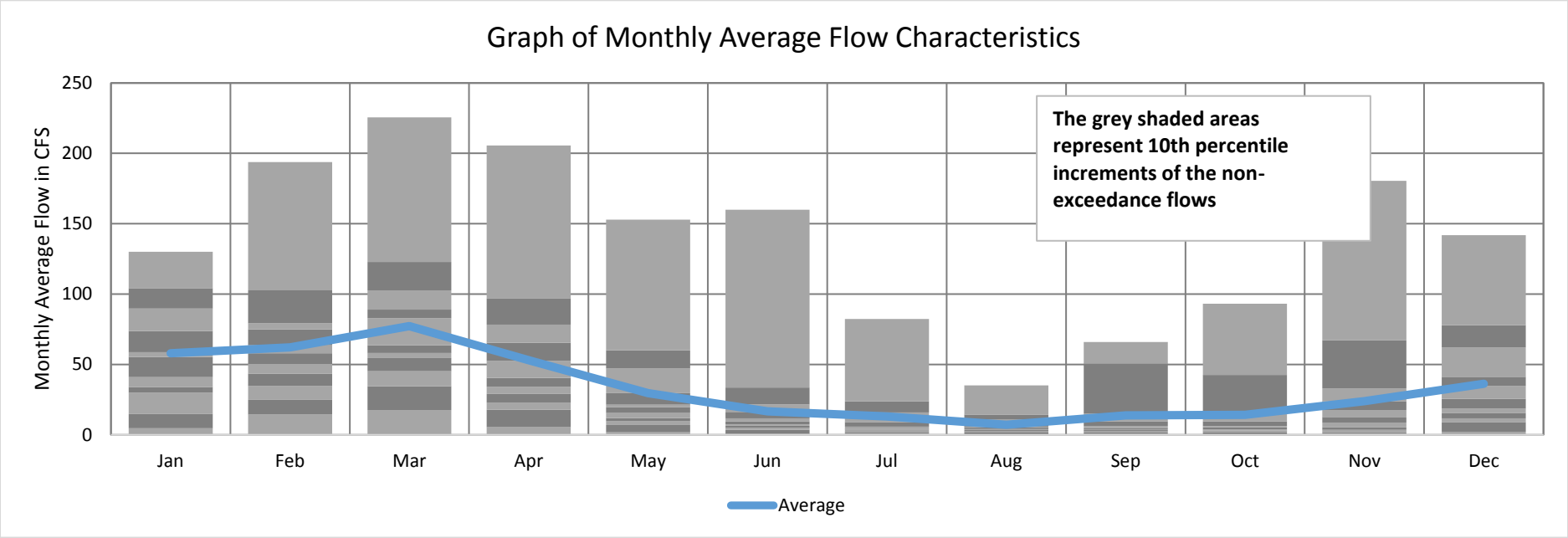
Site #: 02401470 Name: Little Canoe Creek near Steele, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	58	62	77	53	30	17	13	7.1	14	14	24	36
100%	130	194	226	206	153	160	82	35	66	93	180	142
98%	127	142	191	142	112	74	62	29	65	85	105	123
95%	123	106	148	119	89	37	42	16	61	64	76	94
90%	104	103	123	97	60	34	24	14	51	43	67	78
75%	82	77	99	69	40	19	14	8.5	14	11	27	48
50%	55	58	64	40	19	9.4	9.0	5.4	4.7	5.2	13	26
25%	32	38	51	26	11	5.3	4.0	2.9	2.7	2.8	4.2	13
10%	15	25	35	18	7.0	3.6	1.9	2.0	1.7	1.6	1.7	9.1
5%	14	24	25	10	5.1	2.8	1.6	1.4	1.1	0.7	1.3	2.9
2%	5.1	18	21	9.0	3.6	1.8	1.1	0.9	0.9	0.4	1.2	2.4
0%	4.7	14	18	5.4	1.9	0.7	1.0	0.4	0.6	0.2	1.1	2.2

Site #: 02401470 Name: Little Canoe Creek near Steele, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 22 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	58	62	77	53	30	17	13	7.1	14	14	24	36
100%	130	194	226	206	153	160	82	35	66	93	180	142
98%	127	142	191	142	112	74	62	29	65	85	105	123
95%	123	106	148	119	89	37	42	16	61	64	76	94
90%	104	103	123	97	60	34	24	14	51	43	67	78
75%	82	77	99	69	40	19	14	8.5	14	11	27	48
50%	55	58	64	40	19	9.4	9.0	5.4	4.7	5.2	13	26
25%	32	38	51	26	11	5.3	4.0	2.9	2.7	2.8	4.2	13
10%	15	25	35	18	7.0	3.6	1.9	2.0	1.7	1.6	1.7	9.1
5%	14	24	25	10	5.1	2.8	1.6	1.4	1.1	0.7	1.3	2.9
2%	5.1	18	21	9.0	3.6	1.8	1.1	0.9	0.9	0.4	1.2	2.4
0%	4.7	14	18	5.4	1.9	0.7	1.0	0.4	0.6	0.2	1.1	2.2

Monthly Flows (in CFS) for

02404400 - Choccolocco Creek at Jackson Shoals near Lincoln, Ala.

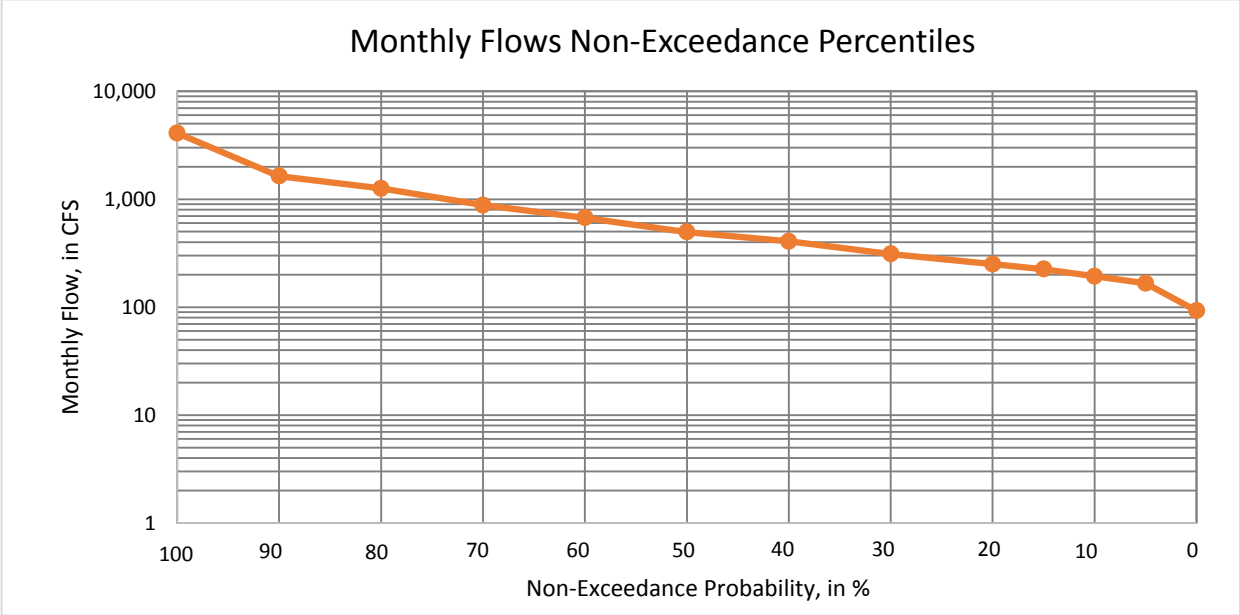
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,269	2,232	2,256	1,148	870	580	548	793	1,229	1,385	929	815	1,165
1976	2,202	920	3,196	1,814	1,064	615	582	327	283	277	338	657	1,027
1977	1,112	813	4,019	3,017	571	329	230	229	240	756	1,432	541	1,108
1978	1,727	654	827	691	1,299	872	283	305	193	184	206	347	634
1979	831	1,042	3,258	4,095	894	821	457	308	676	628	987	549	1,209
1980	1,399	1,110	3,375	2,288	1,469	592	297	218	250	397	348	314	1,005
1981	304	1,304	703	682	563	353	269	220	245	208	227	412	452
1982	1,325	3,139	877	2,243	880	619	457	365	225	336	614	1,891	1,066
1983	1,065	1,613	1,539	2,266	1,541	630	314	216	250	256	960	2,995	1,134
1984	1,265	1,262	1,211	1,633	2,215	512	564	1,189	333	246	236	411	923
1985	453	1,548	618	412	602	304	493	386	286	221	214	304	480
1986	223	308	355	225	179	143	138	174	166	147	334	372	230
1987	1,071	1,177	1,610	690	393	332	418	227	162	140	175	222	549
1988	728	604	350	422	287	154	170	156	267	182	318	256	323
1989	733	677	1,892	1,592	502	1,215	1,258	411	342	421	627	801	873
1990	1,971	3,715	3,625	836	497	333	290	198	165	174	221	282	1,010
1991	463	1,383	1,334	868	1,576	844	446	390	265	204	265	396	699
1992	758	1,361	1,246	893	412	473	309	441	709	277	1,572	1,554	828
1993	2,273	1,133	1,762	1,049	903	484	315	259	192	179	257	351	763
1994	465	1,251	1,530	1,627	598	417	671	539	356	360	402	1,001	765
1995	658	2,122	1,958	961	550	350	248	215	282	1,792	1,444	1,126	968
1996	1,975	2,057	2,443	901	559	458	381	363	287	261	451	646	893
1997	1,587	1,440	1,372	1,242	676	1,676	669	421	294	324	409	651	892
1998	1,558	2,641	2,432	1,656	774	467	424	300	210	210	243	311	925
1999	821	981	1,084	677	449	477	597	232	160	182	186	190	501
2000	409	410	672	1,450	329	236	171	156	127	124	300	215	381
2001	483	848	2,420	1,828	467	567	501	286	454	241	219	413	726
2002	1,175	822	889	879	983	330	250	179	359	392	867	1,935	756
2003	706	1,534	1,646	897	3,953	1,374	1,561	580	313	258	403	436	1,139
2004	493	1,189	657	434	500	494	496	289	843	343	1,499	1,313	707
2005	669	1,049	1,441	1,504	606	696	972	469	270	240	283	437	717
2006	904	1,961	1,408	785	763	287	222	186	238	230	486	308	640
2007	707	531	479	284	177	144	157	103	95	93	119	140	251
2008	225	864	823	672	635	275	199	493	214	174	169	623	445
2009	1,001	567	1,544	1,066	1,271	482	309	340	413	1,184	1,622	1,902	979
2010	1,492	1,750	2,145	739	841	445	298	235	173	175	187	228	721
2011	305	507	2,048	1,121	377	247	327	157	186	137	231	422	506
2012	709	499	1,157	367	271	190	149	220	162	205	141	371	371
2013	1,367	1,933	1,143	1,384	2,664	824	1,388	799	612	349	286	1,705	1,203
2014	1,264	1,199	1,353	1,998	813	741	341	286	254	257	471	923	822

Non-Exceedance Percentiles

02404400 - Choccolocco Creek at Jackson Shoals near Lincoln, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	223	308	350	225	177	143	138	103	95	93	119	140	230
5th %	300	494	473	363	266	153	156	156	159	136	167	214	319
10th %	398	528	653	421	325	232	171	172	162	146	185	227	380
15th %	461	598	699	636	390	270	219	185	166	174	203	278	451
20th %	479	672	826	681	441	301	244	212	184	178	218	307	496
30th %	695	860	1,125	771	501	333	288	220	213	198	234	350	638
40th %	731	1,046	1,299	887	568	434	309	234	243	217	276	405	719
Median	867	1,183	1,425	1,005	620	475	334	288	259	244	326	429	764
60th %	1,088	1,279	1,570	1,186	790	501	433	315	282	259	402	578	881
70th %	1,266	1,468	1,912	1,530	884	599	494	371	300	327	476	700	938
80th %	1,418	1,787	2,289	1,688	1,106	705	567	425	356	366	879	1,026	1,014
90th %	1,751	2,133	3,202	2,245	1,544	846	701	543	619	641	1,433	1,724	1,135
Maximum	2,273	3,715	4,019	4,095	3,953	1,676	1,561	1,189	1,229	1,792	1,622	2,995	1,209
Average	1,004	1,304	1,617	1,233	874	535	454	341	319	354	517	719	770

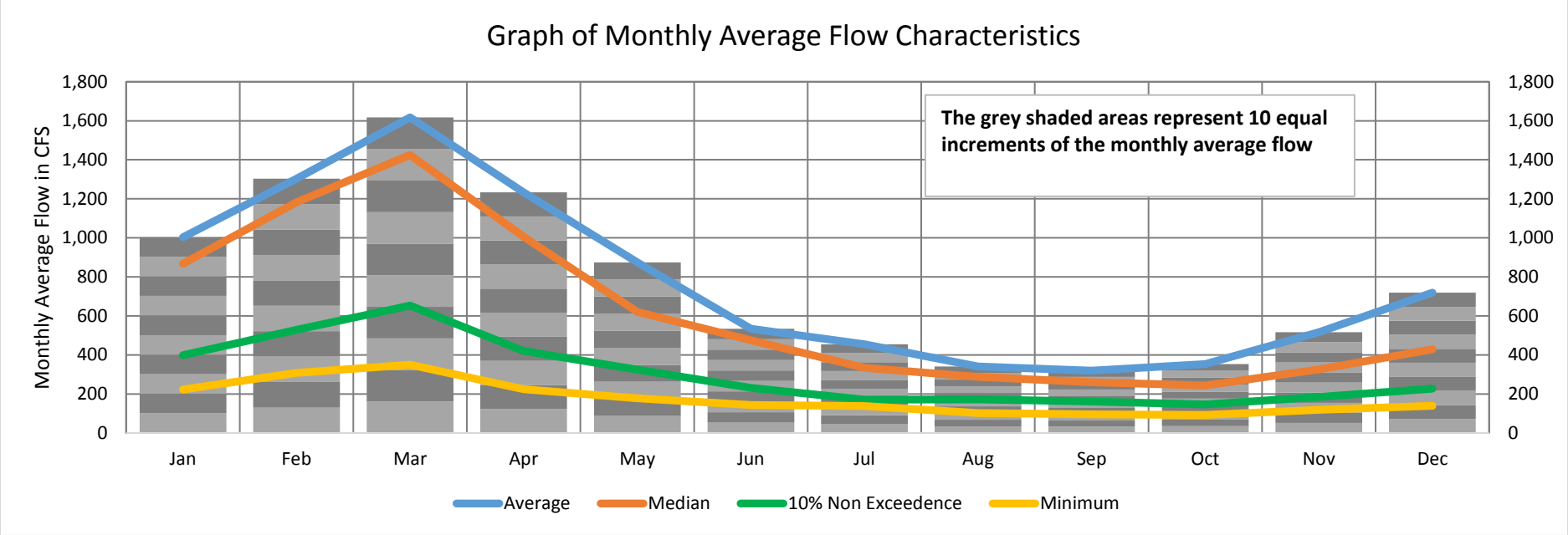
	Flows in CFS
Minimum	92.5
5th %	166
10th %	193
15th %	225
20th %	250
30th %	311
40th %	406
Median	497
60th %	672
70th %	879
80th %	1,259
90th %	1,634
Maximum	4,095
Average	773



Q10/Q50	0.39
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.19
Q5/DA	0.35
Q10/DA	0.40
Q15/DA	0.47
Q20/DA	0.52
Q30/DA	0.65
Q40/DA	0.84
Q50/DA	1.03
Q60/DA	1.40
Q70/DA	1.83
Q80/DA	2.62
Q90/DA	3.40
Qmax/DA	8.51

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

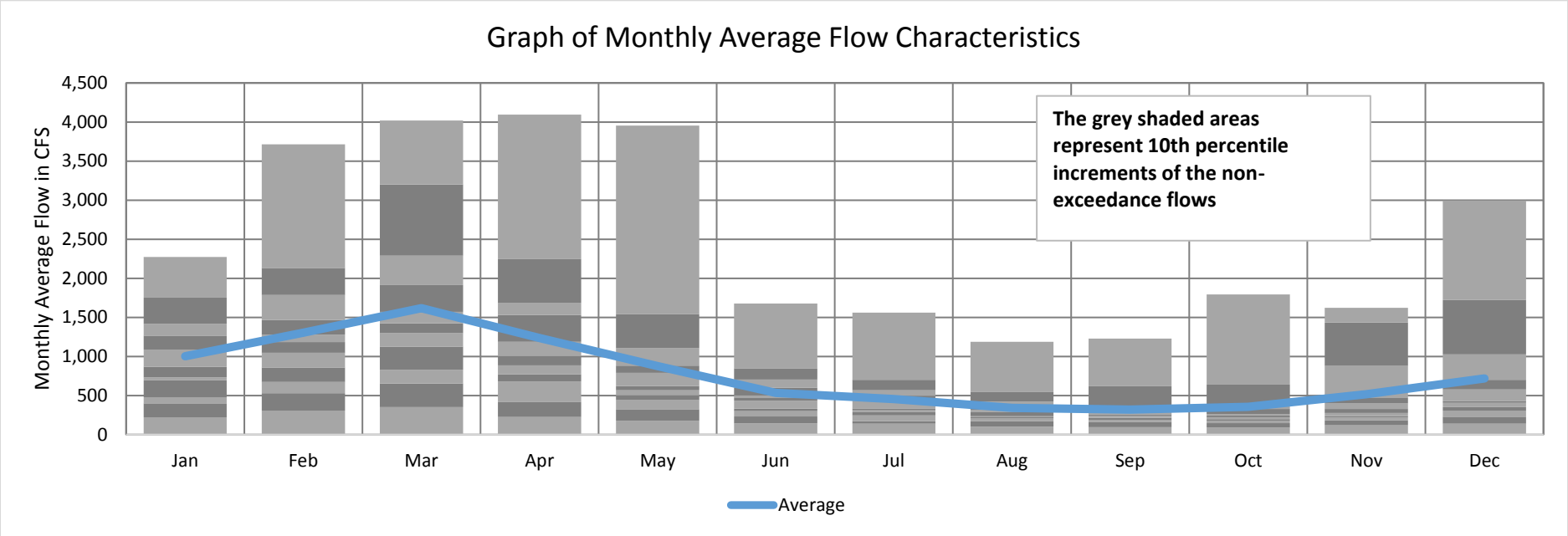
Site #: 02404400 Name: Choccolocco Creek at Jackson Shoals near Lincoln, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,004	1,304	1,617	1,233	874	535	454	341	319	354	517	719
100%	2,273	3,715	4,019	4,095	3,953	1,676	1,561	1,189	1,229	1,792	1,622	2,995
98%	2,218	3,265	3,712	3,254	2,948	1,440	1,426	884	928	1,475	1,583	2,168
95%	1,986	2,666	3,387	2,324	2,238	1,223	1,265	793	715	1,194	1,503	1,904
90%	1,751	2,133	3,202	2,245	1,544	846	701	543	619	641	1,433	1,724
75%	1,335	1,564	2,072	1,629	923	622	512	395	335	344	617	842
50%	867	1,183	1,425	1,005	620	475	334	288	259	244	326	429
25%	617	820	886	691	489	330	264	218	193	182	225	313
10%	398	528	653	421	325	232	171	172	162	146	185	227
5%	300	494	473	363	266	153	156	156	159	136	167	214
2%	224	388	354	271	179	144	146	144	120	117	137	179
0%	223	308	350	225	177	143	138	103	95	93	119	140

Site #: 02404400 Name: Choccolocco Creek at Jackson Shoals near Lincoln, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 481 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,004	1,304	1,617	1,233	874	535	454	341	319	354	517	719
100%	2,273	3,715	4,019	4,095	3,953	1,676	1,561	1,189	1,229	1,792	1,622	2,995
98%	2,218	3,265	3,712	3,254	2,948	1,440	1,426	884	928	1,475	1,583	2,168
95%	1,986	2,666	3,387	2,324	2,238	1,223	1,265	793	715	1,194	1,503	1,904
90%	1,751	2,133	3,202	2,245	1,544	846	701	543	619	641	1,433	1,724
75%	1,335	1,564	2,072	1,629	923	622	512	395	335	344	617	842
50%	867	1,183	1,425	1,005	620	475	334	288	259	244	326	429
25%	617	820	886	691	489	330	264	218	193	182	225	313
10%	398	528	653	421	325	232	171	172	162	146	185	227
5%	300	494	473	363	266	153	156	156	159	136	167	214
2%	224	388	354	271	179	144	146	144	120	117	137	179
0%	223	308	350	225	177	143	138	103	95	93	119	140

Monthly Flows (in CFS) for
02405500 - Kelly Creek near Vincent, Ala.

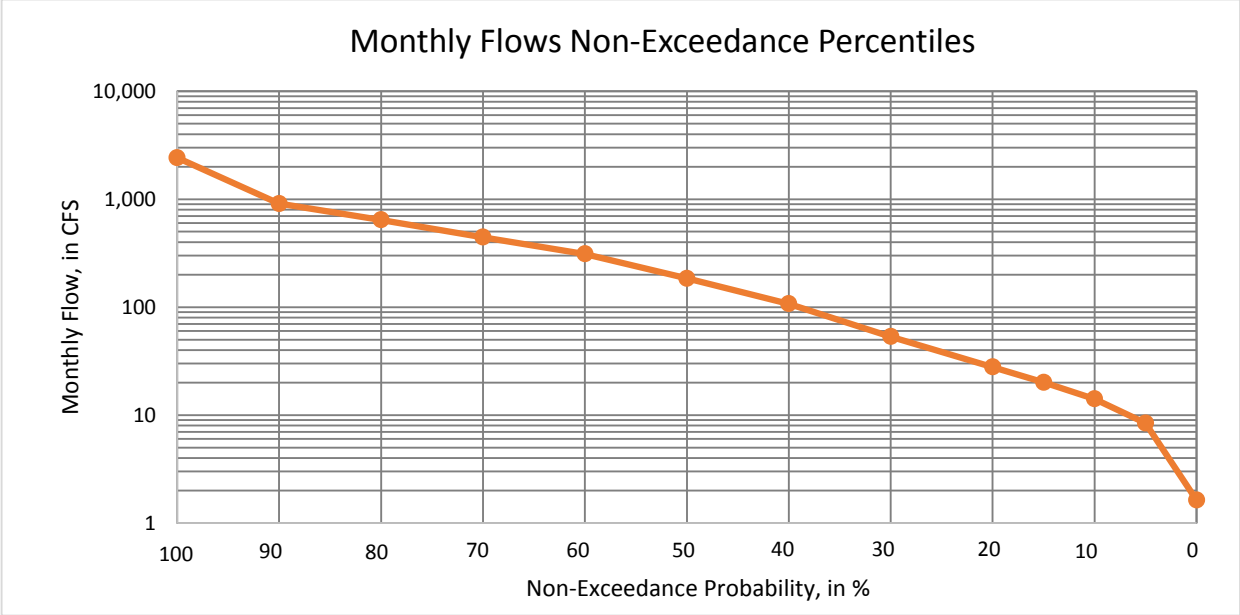
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,043	1,069	1,096	393	186	72	114	125	334	410	167	396	448
1976	989	324	1,753	536	475	78	99	42	35	15	24	251	388
1977	707	479	1,444	1,191	56	19	12	9	147	840	772	367	504
1978	827	170	558	123	496	168	21	21	11	10	8	78	209
1979	796	796	1,095	1,952	209	108	29	24	503	164	494	119	519
1980	591	459	2,112	1,030	481	92	31	15	42	83	84	51	424
1981	33	725	644	396	37	28	26	12	11	37	15	169	174
1982	729	1,047	375	1,036	266	349	109	84	17	25	219	1,226	453
1983	409	948	815	1,394	923	199	41	21	20	16	482	1,358	549
1984	662	338	390	1,007	649	99	62	79	13	14	59	154	293
1985	144	1,072	297	187	232	26	176	65	24	71	123	218	214
1986	112	242	172	40	44	15	12	10	11	65	458	410	132
1987	910	879	933	252	85	145	107	8	4	2	13	35	278
1988	404	235	218	253	53	6	9	2	122	95	374	162	160
1989	678	416	1,180	565	87	616	669	44	139	195	369	442	451
1990	1,078	2,423	1,229	140	49	16	32	8	3	2	6	132	414
1991	371	823	733	603	616	125	26	13	15	4	37	134	288
1992	429	735	447	341	52	62	31	97	314	45	911	955	365
1993	1,268	486	628	327	281	55	17	14	10	5	63	160	276
1994	367	636	635	724	112	86	204	62	347	528	273	800	396
1995	478	854	684	254	103	29	8	8	8	486	796	591	355
1996	1,314	1,029	1,596	358	129	68	102	75	36	46	172	283	432
1997	1,004	655	885	389	180	1,187	237	104	52	116	176	483	454
1998	1,255	1,044	927	659	130	51	65	99	14	8	24	208	370
1999	763	671	714	311	108	494	346	20	8	35	26	76	296
2000	310	199	541	1,149	56	17	6	10	4	4	58	48	199
2001	302	542	1,127	946	84	193	33	44	543	27	56	471	362
2002	843	382	427	231	320	24	86	6	190	311	619	898	362
2003	315	953	784	331	1,714	567	489	162	26	15	54	135	460
2004	356	740	330	208	147	183	145	48	721	98	1,469	668	421
2005	325	537	568	532	111	337	402	61	30	34	35	163	259
2006	657	1,208	705	346	342	33	17	27	16	53	195	174	309
2007	589	281	196	53	14	14	19	6	7	4	8	16	100
2008	38	291	323	285	443	39	21	236	50	20	14	304	172
2009	630	326	756	643	593	111	43	26	310	723	781	1,023	499
2010	684	691	809	256	310	164	13	23	5	8	30	95	255
2011	156	326	1,197	489	56	25	25	17	208	20	121	360	250
2012	457	267	559	128	77	29	22	61	59	36	36	309	170
2013	939	1,073	594	493	709	312	258	367	47	13	45	834	471
2014	465	612	655	1,166	206	206	12	20	15	51	205	799	365

Non-Exceedance Percentiles

02405500 - Kelly Creek near Vincent, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	33	170	172	40	14	6	6	2	3	2	6	16	100
5th %	109	233	216	120	44	15	9	6	4	4	8	47	159
10th %	154	264	321	139	51	17	12	8	7	4	14	74	172
15th %	309	290	368	205	55	23	13	9	8	8	22	93	195
20th %	323	325	420	248	56	26	17	10	11	10	26	129	213
30th %	394	406	558	276	86	32	22	15	13	15	36	158	271
40th %	462	517	632	337	112	59	28	20	16	23	57	172	295
Median	610	646	694	391	164	82	33	25	28	36	103	267	362
60th %	680	729	767	509	218	109	63	44	44	48	174	363	377
70th %	773	832	898	615	313	165	103	61	78	74	235	451	422
80th %	916	968	1,102	958	476	201	151	80	193	126	463	694	451
90th %	1,047	1,069	1,250	1,151	619	363	267	106	335	417	773	904	474
Maximum	1,314	2,423	2,112	1,952	1,714	1,187	669	367	721	840	1,469	1,358	549
Average	611	675	778	543	281	161	104	54	112	118	247	389	337

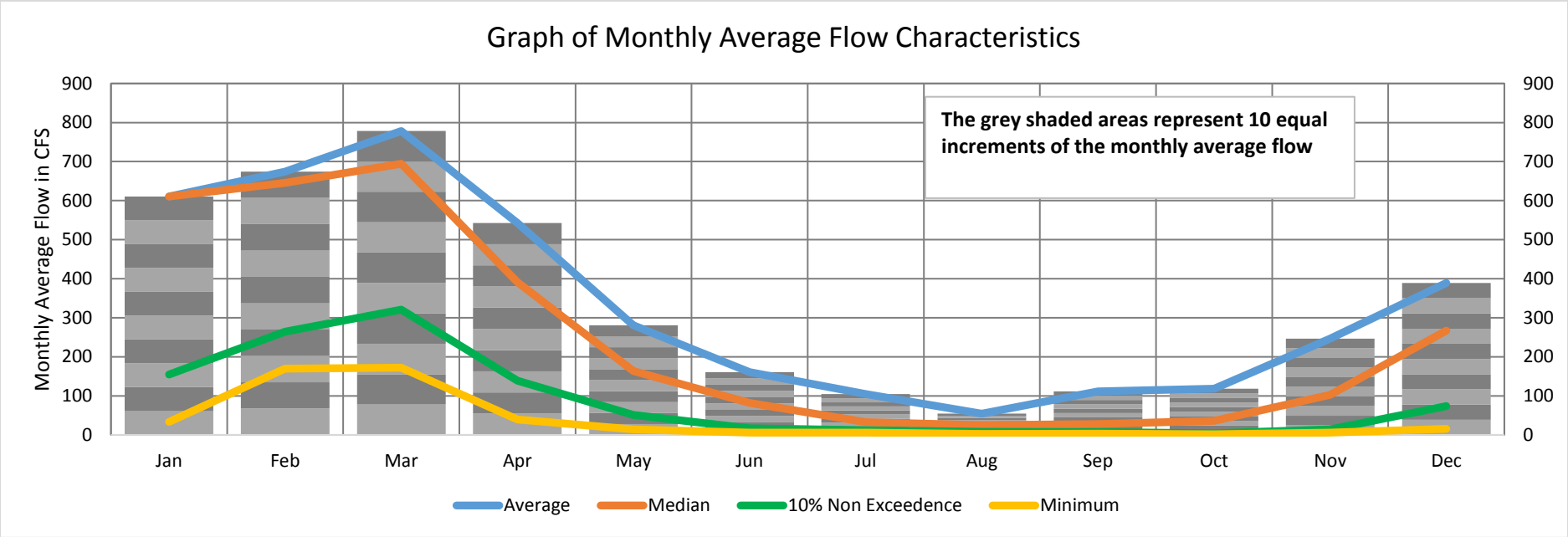
	Flows in CFS
Minimum	1.6
5th %	8
10th %	14
15th %	20
20th %	28
30th %	53
40th %	107
Median	184
60th %	311
70th %	444
80th %	643
90th %	910
Maximum	2,423
Average	339



Q10/Q50	0.08
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.04
Q10/DA	0.07
Q15/DA	0.10
Q20/DA	0.14
Q30/DA	0.28
Q40/DA	0.56
Q50/DA	0.96
Q60/DA	1.61
Q70/DA	2.30
Q80/DA	3.33
Q90/DA	4.72
Qmax/DA	12.55

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

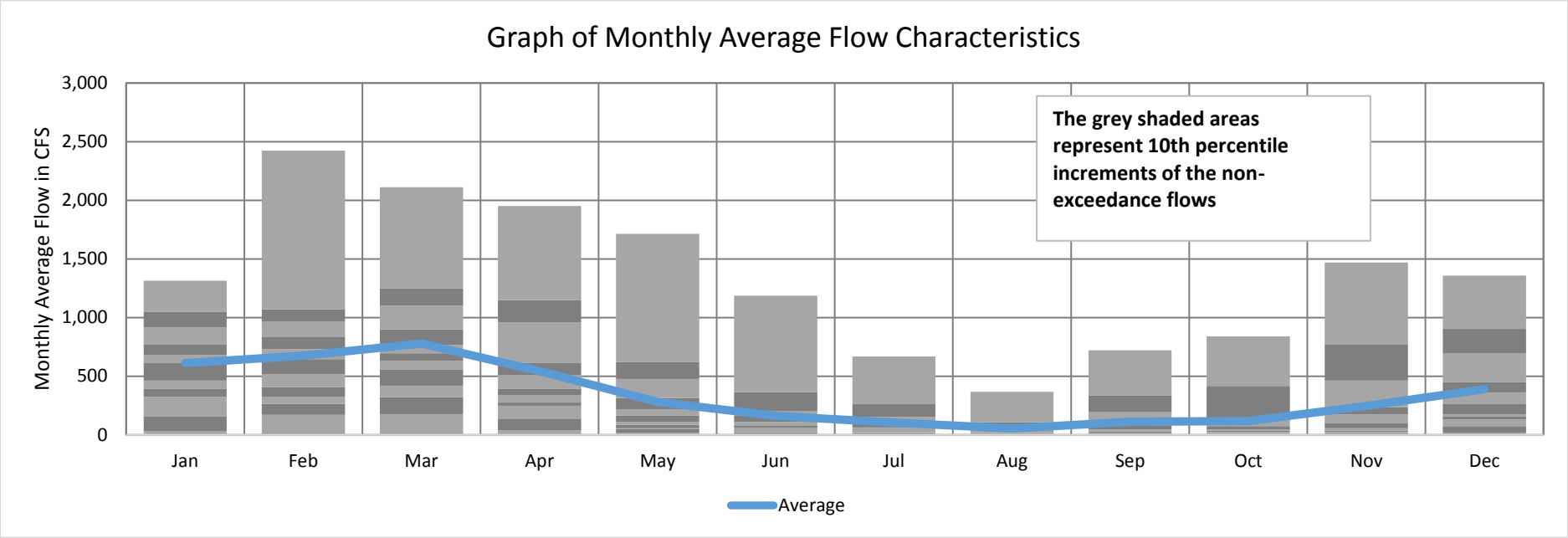
Site #: 02405500 Name: Kelly Creek near Vincent, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	611	675	778	543	281	161	104	54	112	118	247	389
100%	1,314	2,423	2,112	1,952	1,714	1,187	669	367	721	840	1,469	1,358
98%	1,278	1,475	1,832	1,517	1,097	742	529	264	582	749	1,034	1,255
95%	1,256	1,080	1,604	1,202	720	569	406	166	505	538	801	1,033
90%	1,047	1,069	1,250	1,151	619	363	267	106	335	417	773	904
75%	831	896	973	675	367	185	110	68	141	96	370	510
50%	610	646	694	391	164	82	33	25	28	36	103	267
25%	365	335	517	254	82	29	20	13	11	14	34	135
10%	154	264	321	139	51	17	12	7.9	7.2	4.2	14	74
5%	109	233	216	120	44	15	8.7	6.4	4.3	3.9	8.0	47
2%	37	193	191	50	32	12	7.6	4.9	3.9	1.8	7.2	30
0%	33	170	172	40	14	5.7	5.9	2.3	3.1	1.6	5.7	16

Site #: 02405500 Name: Kelly Creek near Vincent, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 193 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	611	675	778	543	281	161	104	54	112	118	247	389
100%	1,314	2,423	2,112	1,952	1,714	1,187	669	367	721	840	1,469	1,358
98%	1,278	1,475	1,832	1,517	1,097	742	529	264	582	749	1,034	1,255
95%	1,256	1,080	1,604	1,202	720	569	406	166	505	538	801	1,033
90%	1,047	1,069	1,250	1,151	619	363	267	106	335	417	773	904
75%	831	896	973	675	367	185	110	68	141	96	370	510
50%	610	646	694	391	164	82	33	25	28	36	103	267
25%	365	335	517	254	82	29	20	13	11	14	34	135
10%	154	264	321	139	51	17	12	7.9	7.2	4.2	14	74
5%	109	233	216	120	44	15	8.7	6.4	4.3	3.9	8.0	47
2%	37	193	191	50	32	12	7.6	4.9	3.9	1.8	7.2	30
0%	33	170	172	40	14	5.7	5.9	2.3	3.1	1.6	5.7	16

Monthly Flows (in CFS) for
02406500 - Talladega Creek at Alpine, Ala.

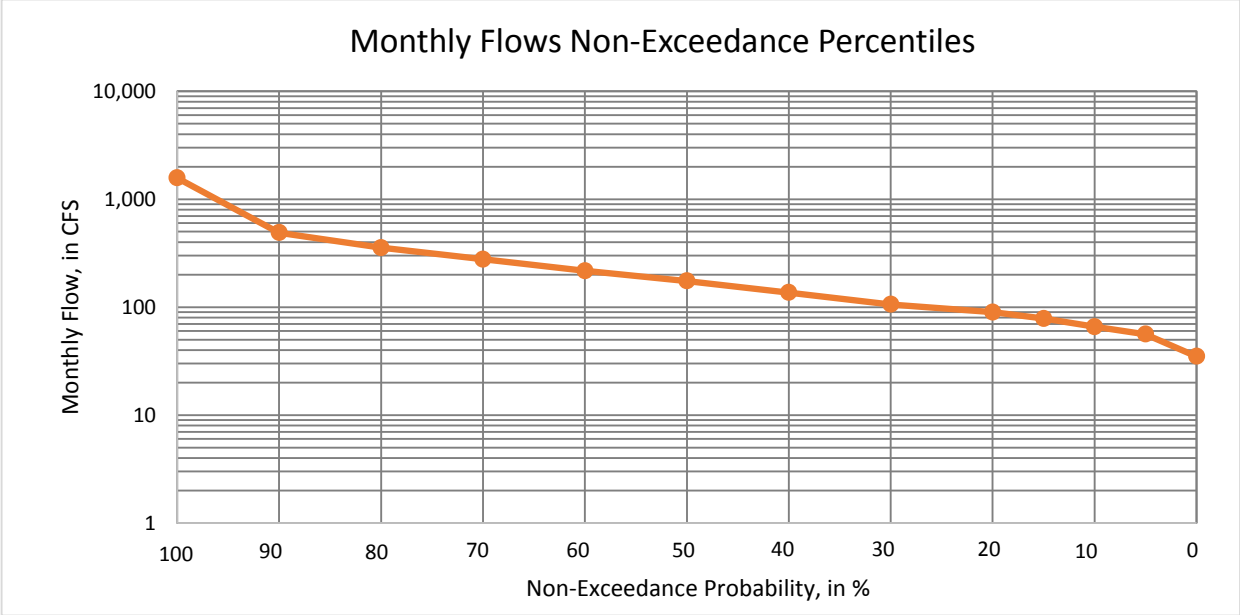
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	379	560	578	584	249	180	307	278	234	333	239	236	345
1976	824	278	719	374	447	200	126	94	93	74	104	188	295
1977	264	206	688	366	147	97	82	72	104	147	189	158	210
1978	412	211	252	207	333	144	93	93	63	55	62	97	169
1979	255	282	684	1,572	284	263	140	99	186	171	250	163	361
1980	368	303	993	633	419	177	99	73	76	107	99	105	288
1981	95	440	286	346	118	92	71	77	63	56	64	125	150
1982	382	866	306	562	218	178	188	139	74	94	140	450	296
1983	299	519	647	959	328	210	118	98	118	107	316	889	383
1984	375	313	358	345	292	135	237	357	99	95	108	178	241
1985	159	396	181	166	186	91	112	106	80	81	84	137	147
1986	100	133	181	98	100	78	62	57	67	57	247	228	117
1987	379	462	501	264	216	132	121	81	60	52	67	101	202
1988	278	242	145	205	121	57	85	47	188	87	178	128	146
1989	272	236	546	533	202	355	348	152	142	158	180	259	282
1990	537	878	1,001	304	179	122	95	74	62	64	79	104	288
1991	175	431	400	262	429	281	189	114	90	73	110	171	226
1992	284	407	355	336	175	135	112	108	135	89	502	488	259
1993	573	406	483	340	274	139	91	94	71	59	84	129	228
1994	144	313	400	418	164	138	188	174	123	117	159	296	219
1995	240	1,017	659	396	175	123	80	62	71	478	412	459	343
1996	675	856	861	386	255	159	123	109	104	103	142	254	333
1997	466	470	516	343	190	451	262	146	96	102	140	201	281
1998	417	809	757	474	232	140	120	93	72	67	80	92	276
1999	236	220	254	193	137	118	142	72	56	61	65	65	134
2000	111	128	203	520	107	69	51	53	46	46	117	81	127
2001	185	225	680	707	204	232	173	97	118	89	89	142	245
2002	351	261	310	250	193	99	94	62	84	118	226	548	216
2003	237	460	486	398	1,492	592	478	247	136	112	175	183	417
2004	186	379	229	216	184	150	143	91	303	120	290	309	215
2005	202	316	445	486	200	174	256	141	87	81	104	156	220
2006	223	323	353	227	261	102	66	56	79	80	178	114	171
2007	244	192	139	106	66	54	46	40	37	35	40	53	87
2008	80	278	238	195	191	72	54	93	64	65	54	190	130
2009	241	208	426	305	308	152	91	125	185	345	613	680	307
2010	589	558	760	278	223	160	100	77	58	59	72	101	252
2011	112	169	550	306	137	94	107	63	60	49	83	161	158
2012	238	185	339	148	114	74	50	50	47	48	43	149	124
2013	396	610	329	465	702	290	443	311	151	111	104	519	369
2014	353	350	440	783	316	252	134	89	87	93	114	277	273

Non-Exceedance Percentiles

02406500 - Talladega Creek at Alpine, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	80	128	139	98	66	54	46	40	37	35	40	53	87
5th %	100	167	179	146	107	68	51	49	47	48	54	80	123
10th %	112	192	201	190	118	74	61	55	58	52	63	97	130
15th %	157	207	236	203	134	89	70	61	60	56	67	101	144
20th %	183	218	254	214	145	94	81	62	63	59	77	105	150
30th %	232	255	324	263	178	113	93	74	70	64	84	128	192
40th %	241	295	357	305	191	133	100	86	75	77	104	153	218
Median	268	319	433	344	203	140	115	93	85	88	112	167	234
60th %	320	400	492	379	227	155	124	97	95	94	141	188	265
70th %	376	446	558	432	265	178	142	108	108	107	178	242	284
80th %	399	527	680	522	310	214	188	139	135	117	228	299	298
90th %	540	813	757	641	420	282	266	181	185	159	293	491	347
Maximum	824	1,017	1,001	1,572	1,492	592	478	357	303	478	613	889	417
Average	308	397	467	401	264	169	147	112	102	108	160	234	238

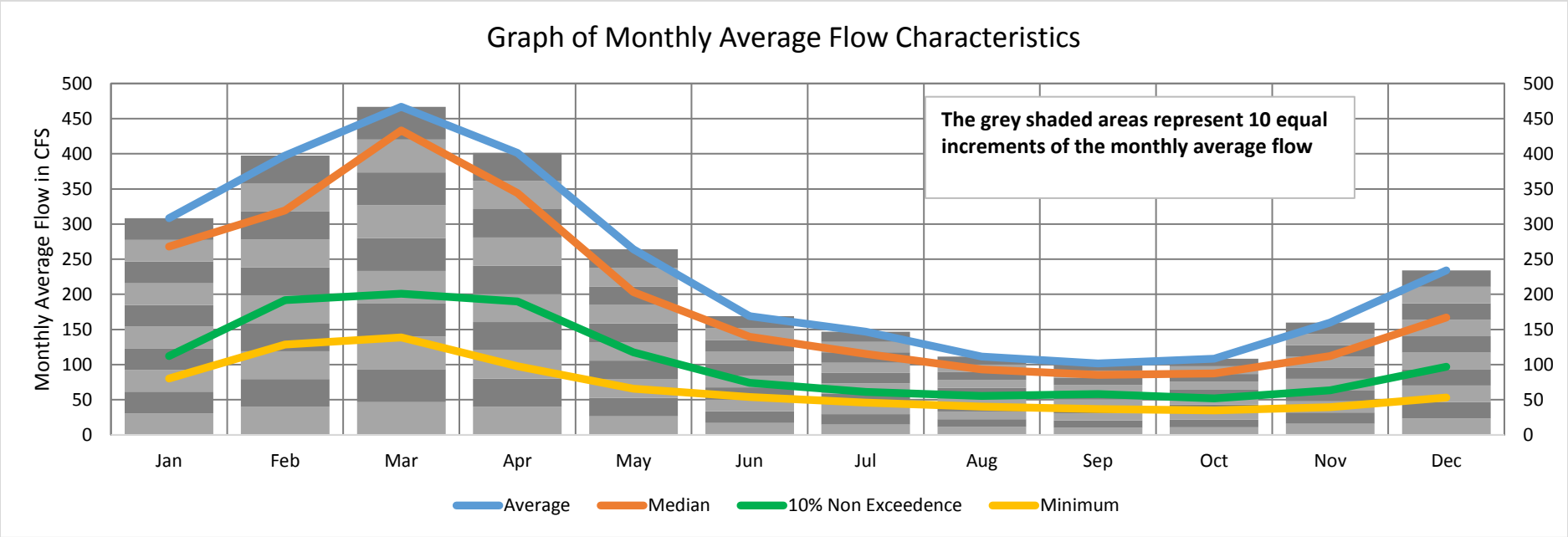
	Flows in CFS
Minimum	34.9
5th %	56
10th %	66
15th %	78
20th %	90
30th %	106
40th %	136
Median	175
60th %	217
70th %	278
80th %	355
90th %	489
Maximum	1,572
Average	239



Q10/Q50	0.38
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.23
Q5/DA	0.37
Q10/DA	0.44
Q15/DA	0.52
Q20/DA	0.60
Q30/DA	0.71
Q40/DA	0.91
Q50/DA	1.17
Q60/DA	1.45
Q70/DA	1.85
Q80/DA	2.36
Q90/DA	3.26
Qmax/DA	10.48

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

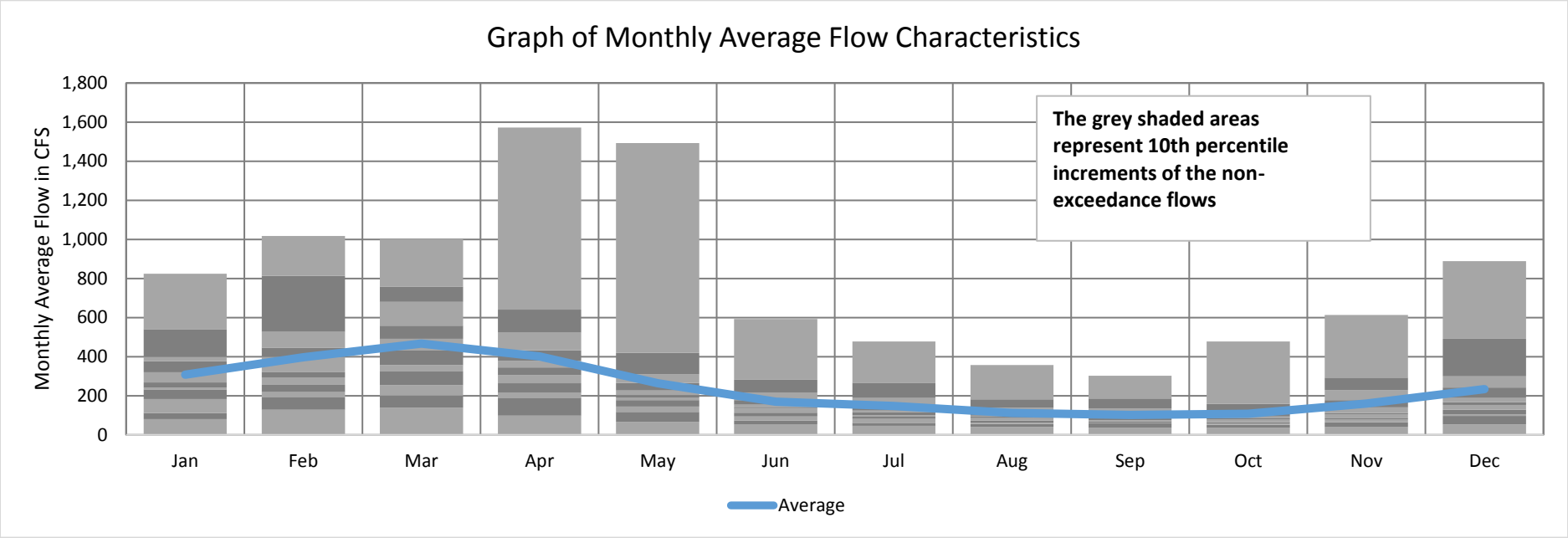
Site #: 02406500 Name: Talladega Creek at Alpine, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	308	397	467	401	264	169	147	112	102	108	160	234
100%	824	1,017	1,001	1,572	1,492	592	478	357	303	478	613	889
98%	707	909	994	1,094	876	482	450	321	250	374	526	726
95%	593	866	867	791	460	359	353	280	191	334	416	554
90%	540	813	757	641	420	282	266	181	185	159	293	491
75%	380	464	650	477	286	185	177	117	119	111	182	264
50%	268	319	433	344	203	140	115	93	85	88	112	167
25%	198	233	301	244	172	98	89	72	64	61	82	122
10%	112	192	201	190	118	74	61	55	58	52	63	97
5%	100	167	179	146	107	68	51	49	47	48	54	80
2%	91	132	144	104	93	56	49	45	44	44	42	63
0%	80	128	139	98	66	54	46	40	37	35	40	53

Site #: 02406500 Name: Talladega Creek at Alpine, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 150 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	308	397	467	401	264	169	147	112	102	108	160	234
100%	824	1,017	1,001	1,572	1,492	592	478	357	303	478	613	889
98%	707	909	994	1,094	876	482	450	321	250	374	526	726
95%	593	866	867	791	460	359	353	280	191	334	416	554
90%	540	813	757	641	420	282	266	181	185	159	293	491
75%	380	464	650	477	286	185	177	117	119	111	182	264
50%	268	319	433	344	203	140	115	93	85	88	112	167
25%	198	233	301	244	172	98	89	72	64	61	82	122
10%	112	192	201	190	118	74	61	55	58	52	63	97
5%	100	167	179	146	107	68	51	49	47	48	54	80
2%	91	132	144	104	93	56	49	45	44	44	42	63
0%	80	128	139	98	66	54	46	40	37	35	40	53

Monthly Flows (in CFS) for

02407000 - Coosa River at Childersburg, Ala. (represents streamflow for 03150106)

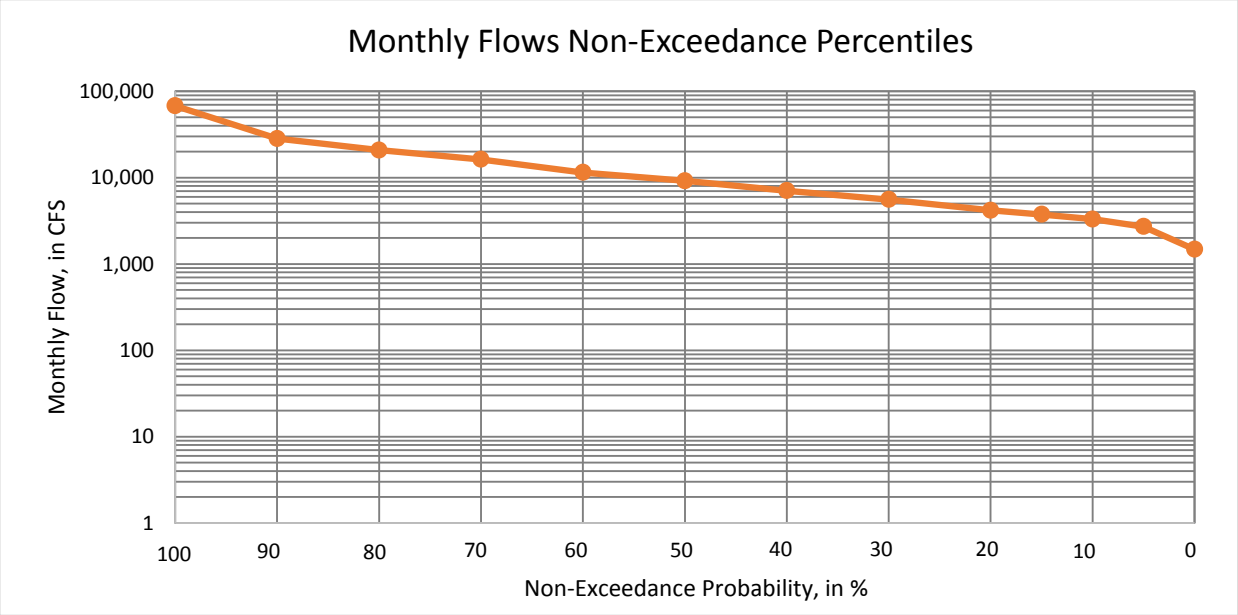
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	27,507	37,379	34,404	19,607	10,026	7,680	8,196	9,878	16,292	20,637	12,633	15,962	18,241
1976	30,788	16,497	40,748	28,167	15,177	9,901	14,252	5,778	4,309	5,064	6,122	3,376	15,034
1977	17,714	10,209	41,629	48,577	9,546	5,433	3,154	4,355	7,378	16,351	27,687	15,049	17,260
1978	29,756	15,614	17,907	8,308	19,691	8,119	3,797	6,045	3,827	2,989	3,774	7,703	10,637
1979	22,459	19,587	47,747	67,665	14,507	11,393	9,592	7,154	12,058	11,347	19,509	10,038	21,028
1980	21,667	19,881	60,471	43,767	25,275	8,416	5,209	3,308	4,095	6,769	7,149	6,536	17,714
1981	3,835	23,801	12,594	16,222	3,481	7,547	4,109	2,747	4,584	3,330	4,313	9,629	7,885
1982	32,434	41,424	20,790	27,990	12,061	7,461	6,120	5,334	3,367	5,711	10,120	39,905	17,592
1983	16,495	29,164	24,496	37,908	23,174	10,418	5,222	3,784	4,685	4,518	15,273	47,111	18,449
1984	27,991	17,025	20,656	23,895	25,759	6,466	9,454	17,063	4,413	6,127	6,386	10,117	14,640
1985	7,779	26,563	9,241	6,383	8,016	3,666	9,599	6,701	3,494	5,303	6,294	8,268	8,332
1986	4,947	7,411	7,294	3,780	2,088	2,430	2,269	2,246	2,534	2,598	12,554	14,541	5,375
1987	22,746	21,533	29,393	9,047	4,792	5,826	5,595	2,379	2,695	2,972	2,439	4,445	9,439
1988	14,447	10,047	6,288	6,568	4,138	2,337	1,832	2,599	8,075	4,197	9,607	6,656	6,367
1989	20,747	14,443	32,981	20,067	9,390	25,332	21,467	6,182	7,097	19,344	17,970	18,736	17,843
1990	34,696	61,660	56,195	13,019	10,625	5,058	4,939	3,835	3,301	5,368	5,357	11,307	17,711
1991	13,139	17,959	22,012	18,864	24,958	9,810	6,843	5,129	5,411	4,534	6,945	11,843	12,263
1992	17,156	20,215	22,385	10,970	4,993	7,930	5,761	8,061	9,211	6,017	26,851	29,655	14,054
1993	37,854	18,003	25,568	15,729	9,953	5,568	4,519	3,369	3,004	2,387	4,277	8,135	11,525
1994	12,997	20,428	25,913	30,846	7,838	6,776	11,787	7,549	7,992	13,312	8,450	19,787	14,435
1995	14,195	28,442	29,169	8,318	6,044	4,353	3,569	3,145	3,504	23,948	24,002	16,407	13,678
1996	28,583	37,983	40,582	17,001	8,784	7,372	4,797	5,161	6,255	5,644	9,622	16,063	15,532
1997	24,644	23,056	29,623	16,441	18,011	20,593	7,718	6,066	4,633	10,992	12,441	13,974	15,646
1998	28,308	40,223	32,975	30,210	12,233	7,292	4,789	4,885	3,421	3,013	4,573	8,762	14,891
1999	18,909	20,870	16,257	7,625	9,329	9,510	12,135	3,950	3,207	3,216	5,275	4,627	9,518
2000	6,881	6,222	12,456	30,532	5,130	2,772	2,563	2,809	2,650	2,863	5,636	5,084	7,105
2001	11,590	15,384	35,046	17,154	6,115	11,326	7,242	5,905	6,759	3,850	4,628	10,197	11,247
2002	18,218	12,418	11,751	12,869	11,103	3,716	3,484	2,943	6,292	7,290	17,969	31,410	11,631
2003	12,271	25,183	29,970	14,761	47,536	19,562	24,193	10,855	5,572	5,442	8,213	10,249	17,820
2004	12,337	22,407	9,507	6,617	7,331	7,247	6,605	4,419	15,045	7,901	28,427	27,368	12,841
2005	10,248	17,690	22,660	25,803	9,361	10,131	19,904	7,947	4,077	3,786	5,187	10,030	12,201
2006	16,110	18,413	14,481	9,702	8,107	3,486	2,864	3,365	2,181	4,109	10,092	6,469	8,219
2007	12,427	7,085	5,507	3,812	3,297	2,063	2,446	3,076	2,743	1,493	1,645	1,474	3,911
2008	3,862	11,333	13,653	8,214	8,071	3,194	2,433	6,404	3,423	2,913	3,056	14,807	6,768
2009	24,922	9,107	25,187	18,553	21,352	5,225	3,778	3,994	17,894	27,033	27,882	38,023	18,670
2010	24,032	30,877	28,461	12,207	12,827	6,748	3,811	3,718	2,711	2,654	3,481	6,033	11,361
2011	7,530	9,967	32,112	22,038	5,914	3,351	3,861	3,447	5,108	3,670	6,513	16,085	9,974
2012	18,067	11,244	17,707	5,077	3,706	2,516	3,188	4,085	3,755	4,102	3,187	10,838	7,297
2013	27,255	30,953	18,633	20,934	32,110	10,831	17,160	11,110	6,325	6,293	6,990	32,607	18,409
2014	21,705	22,798	19,160	28,935	10,052	9,052	4,927	3,325	3,599	5,744	7,489	15,058	12,575

Non-Exceedance Percentiles

02407000 - Coosa River at Childersburg, Ala. (represents streamflow for 03150106)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474	3,911
5th %	4,892	7,395	7,243	5,014	3,472	2,425	2,425	2,588	2,645	2,587	3,025	4,391	6,317
10th %	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038	7,071
15th %	9,878	10,185	12,351	7,474	4,963	3,327	3,111	3,056	2,965	2,963	4,201	6,404	7,796
20th %	12,135	11,316	13,441	8,289	5,757	3,630	3,425	3,275	3,282	3,008	4,521	6,632	8,309
30th %	13,096	15,545	17,847	10,590	7,686	5,175	3,807	3,424	3,473	3,751	5,333	8,614	10,438
40th %	16,341	17,851	20,736	14,064	8,513	6,210	4,681	3,904	3,798	4,162	6,349	10,085	11,589
Median	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073	12,708
60th %	21,682	21,135	26,933	19,161	10,281	7,600	5,904	5,230	4,854	5,670	8,913	14,648	14,517
70th %	24,216	23,279	29,727	22,595	12,411	8,606	7,385	6,051	6,266	6,177	10,816	15,993	15,566
80th %	27,604	28,586	33,265	28,321	18,347	9,947	9,593	6,792	7,153	8,520	15,812	18,946	17,712
90th %	29,860	37,439	40,836	31,552	24,990	11,333	14,542	8,242	9,496	16,650	24,287	31,530	18,258
Maximum	37,854	61,660	60,471	67,665	47,536	25,332	24,193	17,063	17,894	27,033	28,427	47,111	21,028
Average	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859	12,878

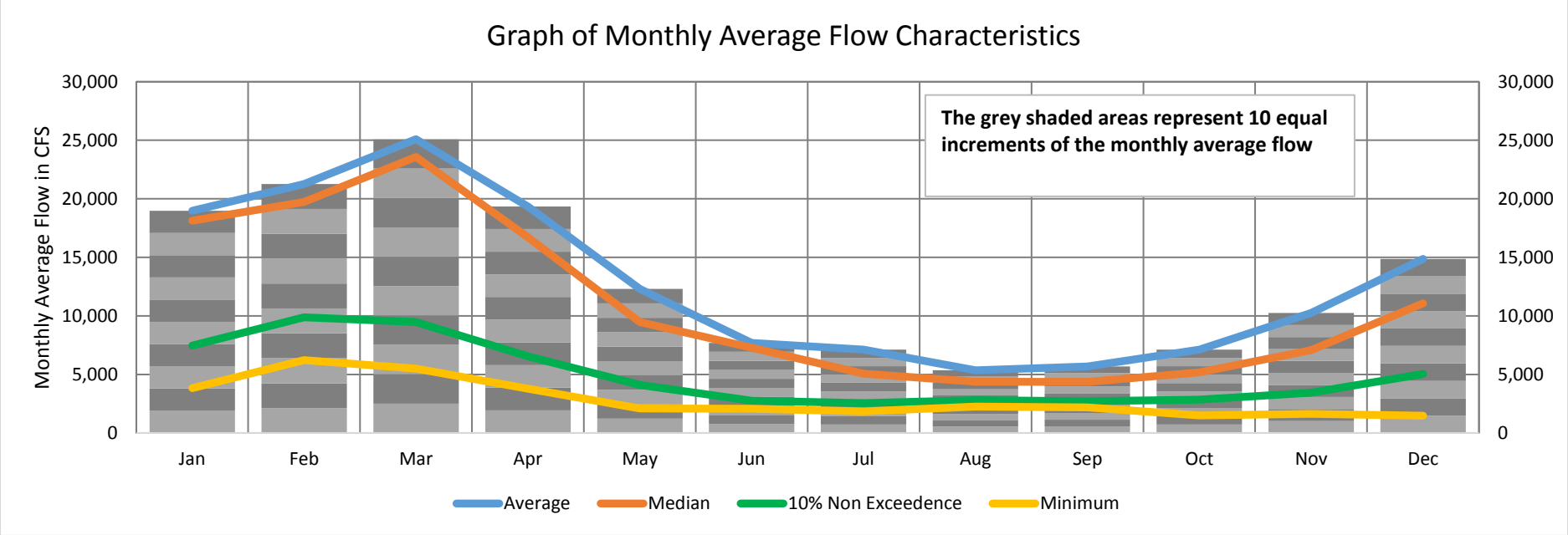
	Flows in CFS
Minimum	1,473.9
5th %	2,710
10th %	3,307
15th %	3,749
20th %	4,185
30th %	5,571
40th %	7,047
Median	9,159
60th %	11,472
70th %	16,232
80th %	20,756
90th %	28,320
Maximum	67,665
Average	12,923



Q10/Q50	0.36
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.18
Q5/DA	0.32
Q10/DA	0.39
Q15/DA	0.45
Q20/DA	0.50
Q30/DA	0.66
Q40/DA	0.84
Q50/DA	1.09
Q60/DA	1.37
Q70/DA	1.93
Q80/DA	2.47
Q90/DA	3.37
Qmax/DA	8.06

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

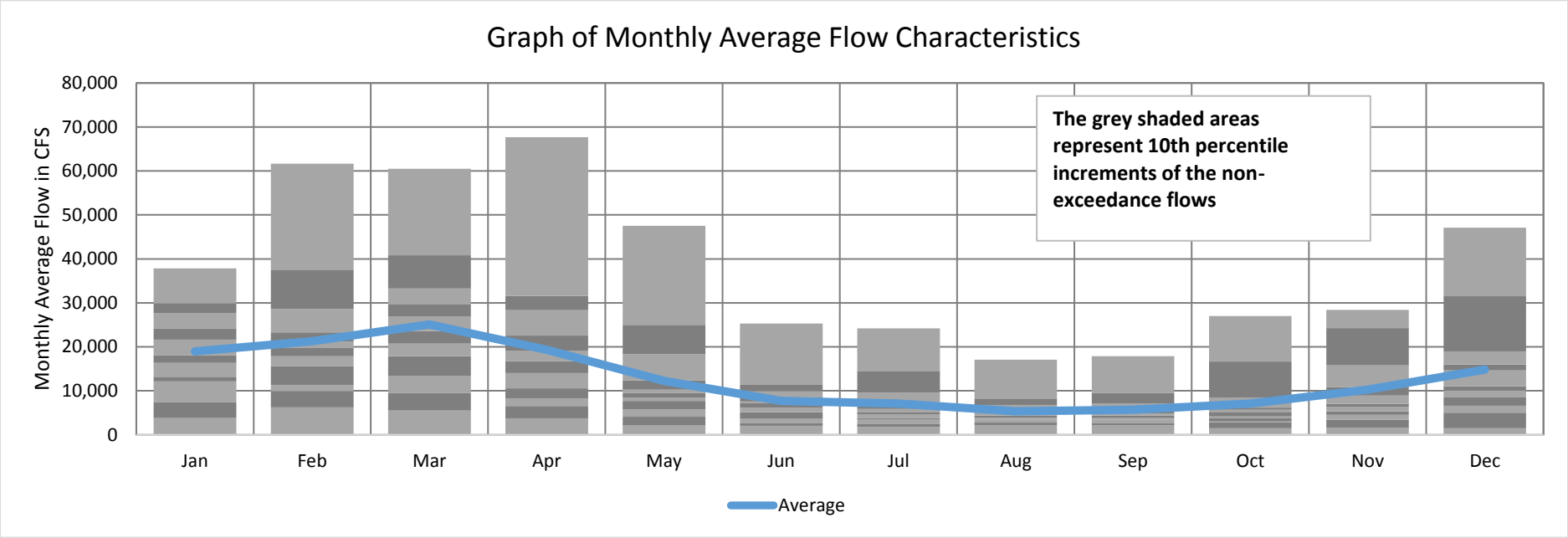
Site #: 02407000 Name: Coosa River at Childersburg, Ala. (represents streamflow for 03150106)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859
100%	37,854	61,660	60,471	67,665	47,536	25,332	24,193	17,063	17,894	27,033	28,427	47,111
98%	35,391	45,876	57,135	52,776	35,504	21,636	22,067	12,419	16,644	24,627	28,002	41,490
95%	32,547	40,283	48,170	44,008	26,076	19,614	19,982	10,868	15,107	20,803	27,696	38,117
90%	29,860	37,439	40,836	31,552	24,990	11,333	14,542	8,242	9,496	16,650	24,287	31,530
75%	25,505	25,528	32,327	26,350	14,675	9,585	8,510	6,237	6,434	6,899	12,574	16,166
50%	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073
25%	12,404	13,936	15,813	8,865	6,098	4,194	3,725	3,355	3,408	3,302	5,048	8,027
10%	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038
5%	4,892	7,395	7,243	5,014	3,472	2,425	2,425	2,588	2,645	2,587	3,025	4,391
2%	3,856	6,895	6,116	3,805	3,031	2,276	2,172	2,350	2,456	2,191	2,264	2,958
0%	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474

Site #: 02407000 Name: Coosa River at Childersburg, Ala. (represents streamflow for 03150106)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 8,392 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	18,981	21,262	25,090	19,355	12,298	7,698	7,129	5,353	5,674	7,121	10,250	14,859
100%	37,854	61,660	60,471	67,665	47,536	25,332	24,193	17,063	17,894	27,033	28,427	47,111
98%	35,391	45,876	57,135	52,776	35,504	21,636	22,067	12,419	16,644	24,627	28,002	41,490
95%	32,547	40,283	48,170	44,008	26,076	19,614	19,982	10,868	15,107	20,803	27,696	38,117
90%	29,860	37,439	40,836	31,552	24,990	11,333	14,542	8,242	9,496	16,650	24,287	31,530
75%	25,505	25,528	32,327	26,350	14,675	9,585	8,510	6,237	6,434	6,899	12,574	16,166
50%	18,142	19,734	23,578	16,721	9,468	7,269	5,074	4,387	4,361	5,184	7,069	11,073
25%	12,404	13,936	15,813	8,865	6,098	4,194	3,725	3,355	3,408	3,302	5,048	8,027
10%	7,466	9,881	9,481	6,550	4,095	2,746	2,551	2,803	2,710	2,842	3,452	5,038
5%	4,892	7,395	7,243	5,014	3,472	2,425	2,425	2,588	2,645	2,587	3,025	4,391
2%	3,856	6,895	6,116	3,805	3,031	2,276	2,172	2,350	2,456	2,191	2,264	2,958
0%	3,835	6,222	5,507	3,780	2,088	2,063	1,832	2,246	2,181	1,493	1,645	1,474

Monthly Flows (in CFS) for
02407514 - Yellowleaf Creek near Westover

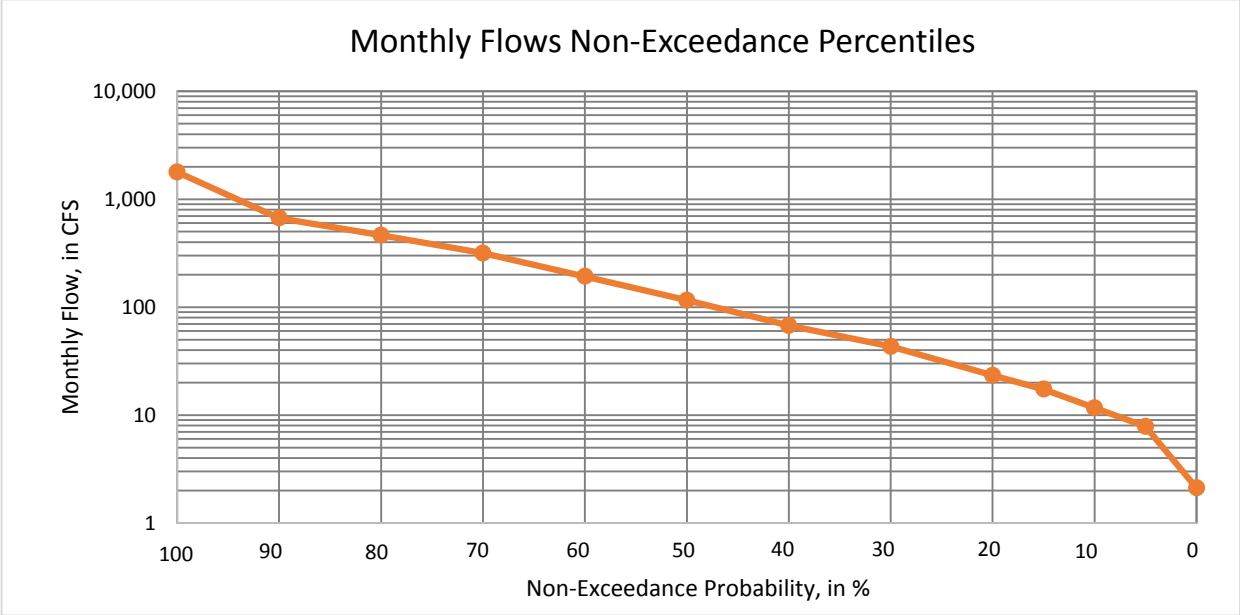
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	865	905	784	599	194	66	149	144	105	261	97	241	365
1976	740	217	1,782	602	733	124	44	44	41	15	24	127	378
1977	435	304	1,597	960	64	25	29	16	94	385	373	189	373
1978	599	175	354	98	430	325	32	21	11	6	8	56	177
1979	504	467	911	1,726	200	103	76	51	273	123	187	77	389
1980	531	461	1,721	895	379	71	31	19	17	63	50	29	356
1981	22	451	385	324	43	65	22	14	8	9	7	40	113
1982	443	737	265	719	172	154	66	56	11	15	47	981	303
1983	321	973	656	1,179	746	133	60	29	26	17	350	1,295	479
1984	513	254	357	484	355	50	44	71	21	52	80	232	210
1985	98	704	204	116	82	28	83	45	7	25	29	80	121
1986	23	75	59	8	10	8	9	9	8	19	267	258	63
1987	748	467	548	153	59	73	47	8	12	4	11	21	178
1988	208	136	72	97	17	4	10	4	48	17	184	93	74
1989	487	211	827	480	83	389	598	37	39	43	145	289	303
1990	1,010	1,629	796	178	119	42	34	11	7	8	13	85	320
1991	142	572	557	341	848	356	116	30	27	12	56	97	261
1992	235	492	281	191	30	20	29	60	176	15	503	529	211
1993	919	313	448	291	244	46	21	33	21	13	67	109	211
1994	301	395	644	493	73	68	136	31	95	162	93	409	241
1995	296	810	729	297	80	39	18	11	21	333	467	335	283
1996	797	743	961	281	91	43	108	59	37	42	86	177	284
1997	637	513	596	269	114	556	178	53	21	37	101	273	277
1998	1,147	986	692	434	101	51	43	47	67	17	48	113	308
1999	516	400	498	182	69	265	138	10	6	23	18	41	179
2000	140	61	455	820	20	14	9	15	4	3	33	19	132
2001	148	267	813	463	35	138	31	50	378	20	23	311	222
2002	657	333	392	138	132	29	57	10	150	122	319	571	243
2003	221	698	551	422	1,120	536	511	128	36	19	56	55	361
2004	172	570	194	119	103	55	55	24	319	24	729	412	228
2005	142	469	545	642	125	401	493	105	45	8	15	128	258
2006	445	597	456	129	191	14	5	8	22	46	150	146	182
2007	389	249	93	28	9	3	4	2	19	6	8	15	68
2008	47	312	212	253	361	25	14	346	49	14	9	315	163
2009	520	244	694	405	622	89	38	31	300	517	588	818	407
2010	432	566	892	142	235	68	10	30	2	2	14	52	202
2011	116	238	810	274	34	12	42	3	134	11	71	269	168
2012	537	268	608	65	95	25	62	392	99	46	16	339	214
2013	667	900	311	351	281	47	177	214	23	16	30	669	304
2014	405	463	504	944	115	111	7	9	8	76	247	695	297

Non-Exceedance Percentiles

02407514 - Yellowleaf Creek near Westover

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	22	61	59	8	9	3	4	2	2	2	7	15	63
5th %	46	133	92	63	17	8	7	4	6	4	8	21	73
10th %	114	208	203	98	29	13	9	8	7	6	11	38	120
15th %	141	235	257	118	35	20	10	9	8	8	14	50	158
20th %	147	248	305	136	55	25	17	10	11	11	16	56	175
30th %	231	293	390	181	78	36	29	15	18	15	27	91	196
40th %	361	371	481	272	93	47	33	23	21	17	47	121	213
Median	439	462	549	311	114	60	43	31	27	19	61	183	242
60th %	508	479	622	412	148	69	56	40	40	25	89	263	280
70th %	533	571	704	481	211	105	69	50	54	44	146	312	303
80th %	659	711	810	610	356	141	120	60	101	66	251	410	327
90th %	804	900	916	900	633	359	177	130	186	172	382	672	374
Maximum	1,147	1,629	1,782	1,726	1,120	556	598	392	378	517	729	1,295	479
Average	439	491	606	415	220	117	91	57	70	66	140	275	248

	Flows in CFS
Minimum	2.1
5th %	8
10th %	12
15th %	17
20th %	23
30th %	43
40th %	67
Median	116
60th %	193
70th %	316
80th %	464
90th %	667
Maximum	1,782
Average	249



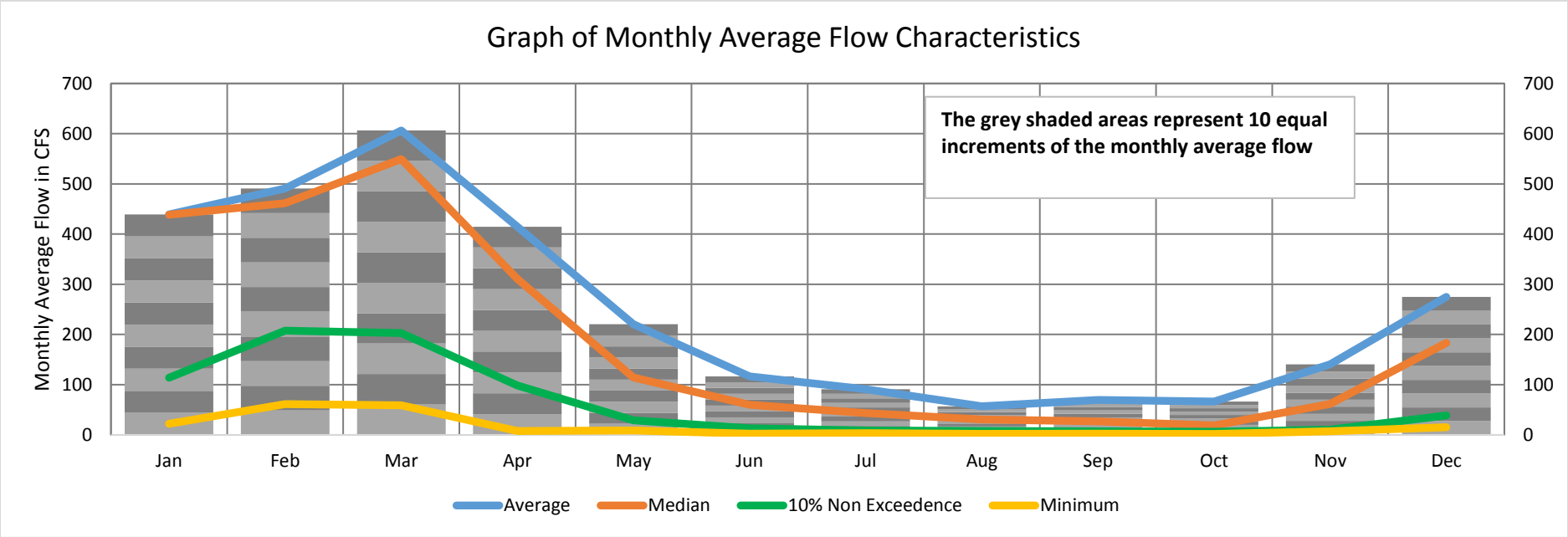
Q10/Q50	0.10
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.06
Q10/DA	0.08
Q15/DA	0.12
Q20/DA	0.16
Q30/DA	0.30
Q40/DA	0.47
Q50/DA	0.82
Q60/DA	1.36
Q70/DA	2.23
Q80/DA	3.27
Q90/DA	4.70
Qmax/DA	12.55

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 02407514 Name: Yellowleaf Creek near Westover

Period of Record: Jan-1975 - Dec-2014

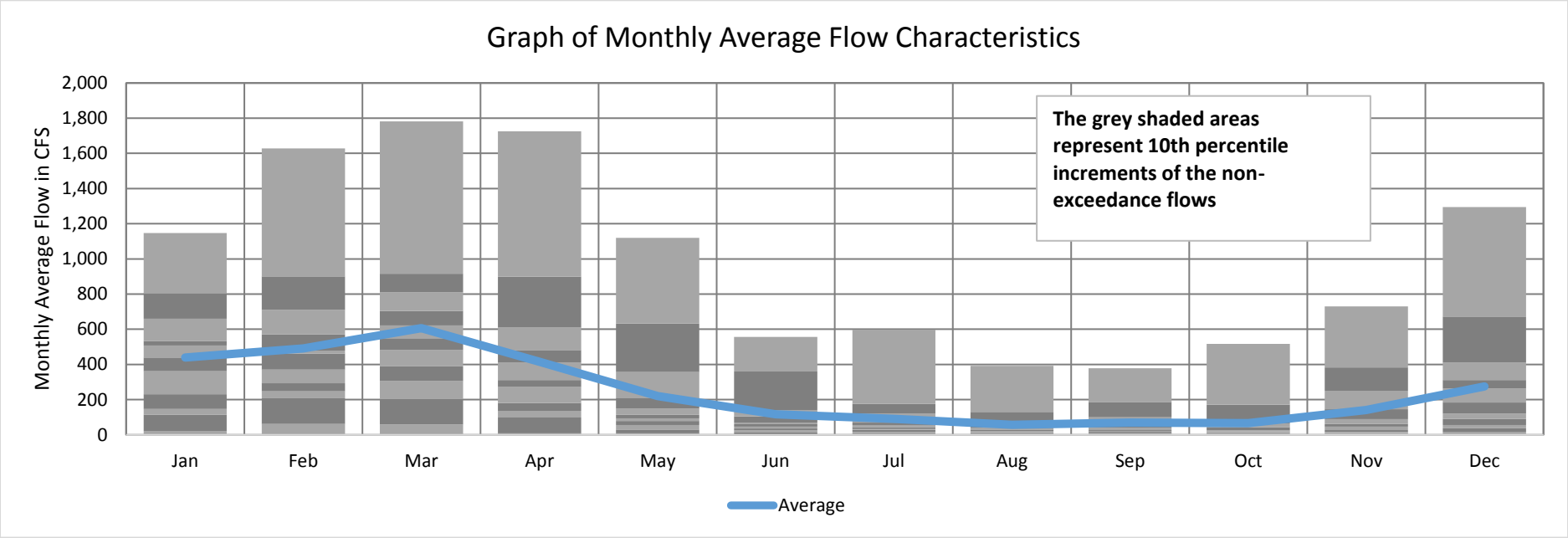
STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	439	491	606	415	220	117	91	57	70	66	140	275
100%	1,147	1,629	1,782	1,726	1,120	556	598	392	378	517	729	1,295
98%	1,040	1,128	1,734	1,299	908	541	530	356	332	414	619	1,050
95%	923	974	1,603	971	752	408	494	221	300	335	507	826
90%	804	900	916	900	633	359	177	130	186	172	382	672
75%	609	622	787	520	254	126	90	54	94	48	185	336
50%	439	462	549	311	114	60	43	31	27	19	61	183
25%	199	264	356	150	68	27	21	11	12	12	21	79
10%	114	208	203	98	29	13	8.9	7.7	7.0	6.4	11	38
5%	46	133	92	63	17	7.6	6.8	4.0	6.1	3.6	8.3	21
2%	23	72	69	23	10	3.6	4.8	2.9	3.5	2.8	7.8	18
0%	22	61	59	7.9	8.9	2.6	3.6	2.1	2.5	2.2	7.4	15

Site #: 02407514 Name: Yellowleaf Creek near Westover
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 142 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	439	491	606	415	220	117	91	57	70	66	140	275
100%	1,147	1,629	1,782	1,726	1,120	556	598	392	378	517	729	1,295
98%	1,040	1,128	1,734	1,299	908	541	530	356	332	414	619	1,050
95%	923	974	1,603	971	752	408	494	221	300	335	507	826
90%	804	900	916	900	633	359	177	130	186	172	382	672
75%	609	622	787	520	254	126	90	54	94	48	185	336
50%	439	462	549	311	114	60	43	31	27	19	61	183
25%	199	264	356	150	68	27	21	11	12	12	21	79
10%	114	208	203	98	29	13	8.9	7.7	7.0	6.4	11	38
5%	46	133	92	63	17	7.6	6.8	4.0	6.1	3.6	8.3	21
2%	23	72	69	23	10	3.6	4.8	2.9	3.5	2.8	7.8	18
0%	22	61	59	7.9	8.9	2.6	3.6	2.1	2.5	2.2	7.4	15

Monthly Flows (in CFS) for
02408540 - Hatchet Creek below Rockford, Ala.

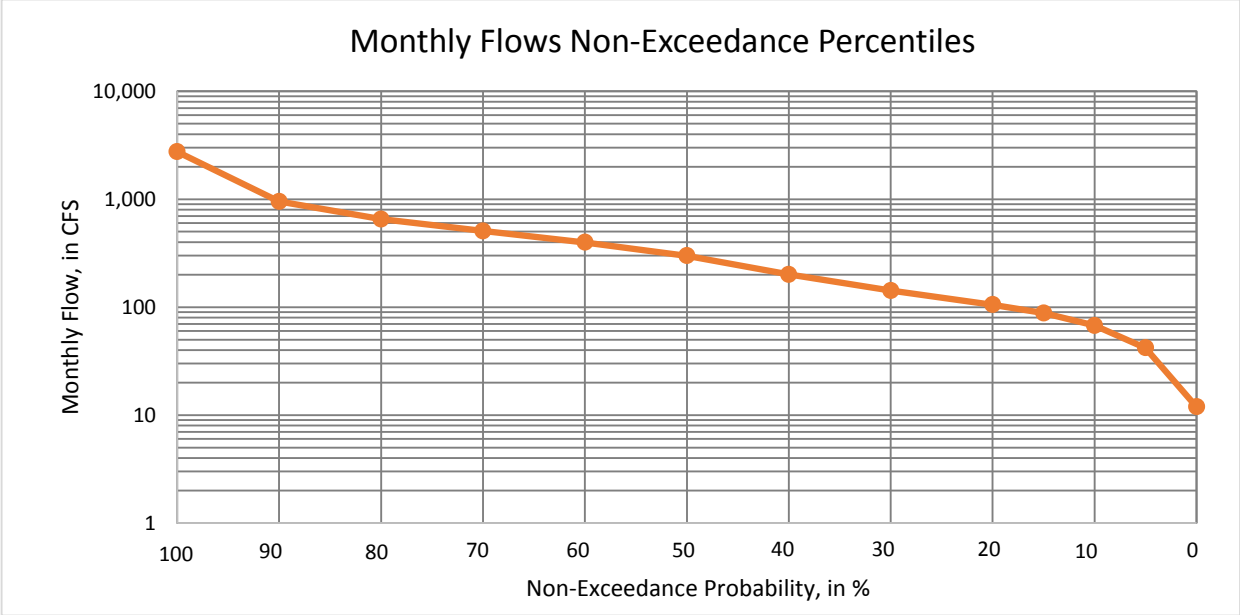
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	729	1,085	1,119	1,131	456	305	579	518	424	634	434	428	651
1976	1,566	518	1,380	719	865	348	186	116	115	73	137	321	531
1977	488	361	1,323	703	231	122	90	69	138	231	324	257	362
1978	795	374	462	364	633	225	114	114	52	36	50	123	279
1979	469	525	1,315	2,750	530	485	217	126	318	286	457	267	642
1980	707	571	1,852	1,223	809	299	126	72	78	144	127	141	513
1981	117	851	535	661	168	112	67	80	53	39	53	184	239
1982	734	1,637	576	1,090	389	301	322	214	75	115	218	871	538
1983	563	1,007	1,248	1,795	623	371	168	125	168	145	598	1,677	704
1984	720	591	686	659	547	204	430	684	126	119	146	300	435
1985	258	763	306	274	318	109	155	143	86	89	94	211	230
1986	129	201	307	124	129	82	50	40	60	41	451	411	168
1987	728	895	971	488	384	199	174	89	46	32	75	161	351
1988	480	510	216	325	161	51	96	27	883	210	300	189	284
1989	431	399	952	919	382	759	774	278	287	379	322	617	542
1990	1,208	2,074	2,007	605	333	185	145	61	39	36	58	101	562
1991	314	490	559	513	659	376	286	135	97	65	156	322	330
1992	546	913	570	666	254	172	130	299	176	99	1,025	1,112	493
1993	1,078	789	796	482	435	197	91	84	69	59	170	186	368
1994	201	548	807	904	315	267	390	415	190	162	234	500	410
1995	415	1,020	1,062	476	188	127	81	51	92	1,026	637	707	487
1996	963	1,092	1,335	619	322	189	157	144	255	180	215	547	499
1997	748	997	849	638	308	566	343	170	125	128	205	455	458
1998	828	1,411	1,384	844	350	218	216	124	79	78	91	136	474
1999	572	439	508	350	197	357	487	127	59	95	97	105	282
2000	298	225	319	483	86	48	22	18	29	19	317	166	168
2001	428	590	1,524	834	312	527	150	129	122	83	96	227	417
2002	454	403	409	238	199	120	108	65	148	128	474	991	311
2003	451	809	902	765	1,501	950	868	381	177	115	277	276	622
2004	324	670	316	266	218	178	163	105	412	123	470	546	313
2005	365	651	1,059	1,107	431	522	568	295	105	122	141	211	463
2006	465	559	479	283	323	81	42	42	95	90	520	154	259
2007	461	311	223	196	68	29	41	12	17	12	35	88	123
2008	150	676	397	310	227	85	166	499	121	131	92	509	278
2009	537	430	1,141	644	460	208	127	133	1,240	782	1,047	1,469	686
2010	1,229	1,154	1,327	461	567	236	69	62	24	45	109	161	451
2011	183	357	914	517	170	72	63	20	26	13	130	243	225
2012	563	326	604	196	233	105	39	82	57	113	46	437	234
2013	704	1,155	610	766	528	206	437	327	87	109	95	953	495
2014	504	620	773	1,410	679	596	228	83	63	88	89	430	461

Non-Exceedance Percentiles

02408540 - Hatchet Creek below Rockford, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	117	201	216	124	68	29	22	12	17	12	35	88	123
5th %	148	306	302	196	127	50	41	20	26	18	50	105	168
10th %	199	354	315	264	168	80	49	39	38	35	58	135	230
15th %	292	372	385	281	185	84	67	49	51	38	87	152	238
20th %	322	402	451	322	199	108	78	62	56	44	92	161	274
30th %	430	504	552	471	232	125	104	77	67	77	96	188	303
40th %	463	555	608	503	314	187	129	87	84	90	134	237	357
Median	496	606	801	629	328	205	156	120	96	111	163	288	426
60th %	563	711	929	663	386	229	171	128	121	120	224	418	462
70th %	711	864	1,079	765	457	302	220	143	141	129	319	468	494
80th %	737	1,010	1,317	907	551	372	352	282	180	165	452	561	532
90th %	974	1,154	1,380	1,140	661	531	495	384	327	295	528	957	624
Maximum	1,566	2,074	2,007	2,750	1,501	950	868	684	1,240	1,026	1,047	1,677	704
Average	573	725	853	695	400	265	224	164	170	162	265	430	408

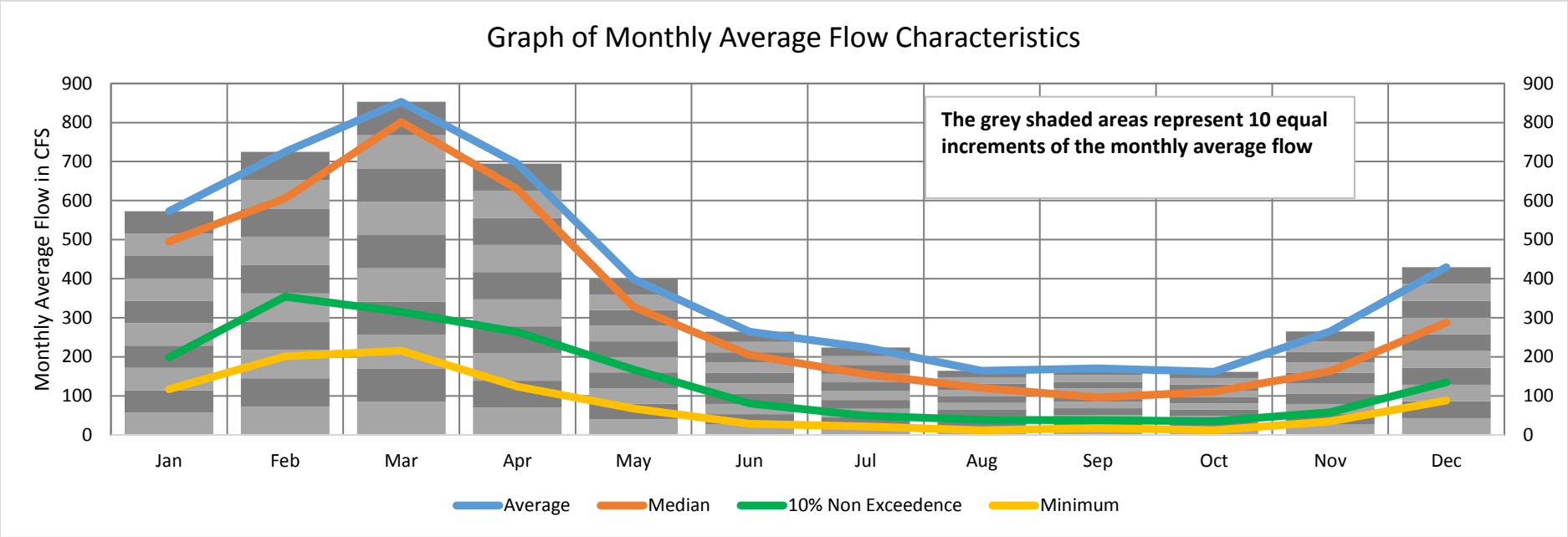
	Flows in CFS
Minimum	11.9
5th %	42
10th %	68
15th %	88
20th %	105
30th %	142
40th %	201
Median	299
60th %	398
70th %	508
80th %	652
90th %	950
Maximum	2,750
Average	410



Q10/Q50	0.23
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.05
Q5/DA	0.16
Q10/DA	0.26
Q15/DA	0.33
Q20/DA	0.40
Q30/DA	0.54
Q40/DA	0.76
Q50/DA	1.14
Q60/DA	1.51
Q70/DA	1.93
Q80/DA	2.48
Q90/DA	3.61
Qmax/DA	10.46

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

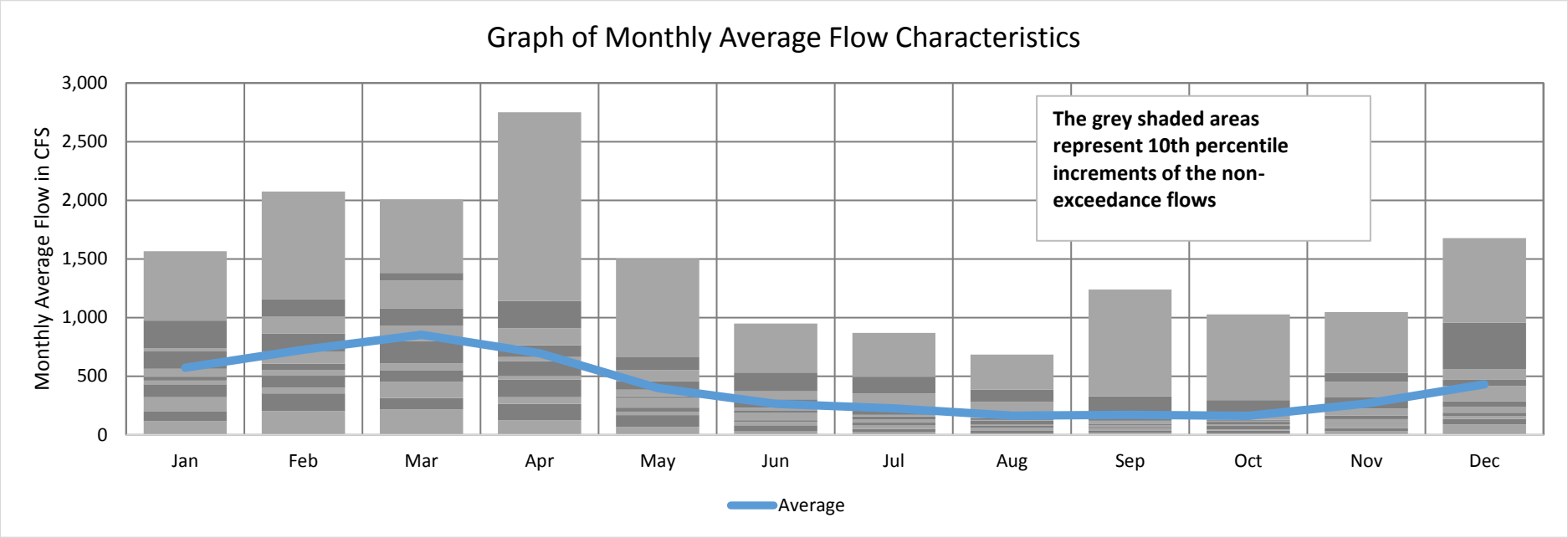
Site #: 02408540 Name: Hatchet Creek below Rockford, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	573	725	853	695	400	265	224	164	170	162	265	430
100%	1,566	2,074	2,007	2,750	1,501	950	868	684	1,240	1,026	1,047	1,677
98%	1,303	1,733	1,886	2,005	1,005	801	795	554	961	836	1,030	1,515
95%	1,209	1,422	1,540	1,429	812	604	588	500	447	641	657	1,130
90%	974	1,154	1,380	1,140	661	531	495	384	327	295	528	957
75%	728	934	1,168	837	528	350	295	181	170	144	351	518
50%	496	606	801	629	328	205	156	120	96	111	163	288
25%	403	437	500	361	225	118	91	68	60	64	95	179
10%	199	354	315	264	168	80	49	39	38	35	58	135
5%	148	306	302	196	127	50	41	20	26	18	50	105
2%	126	220	222	180	82	44	35	17	22	13	43	98
0%	117	201	216	124	68	29	22	12	17	12	35	88

Site #: 02408540 Name: Hatchet Creek below Rockford, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 263 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	573	725	853	695	400	265	224	164	170	162	265	430
100%	1,566	2,074	2,007	2,750	1,501	950	868	684	1,240	1,026	1,047	1,677
98%	1,303	1,733	1,886	2,005	1,005	801	795	554	961	836	1,030	1,515
95%	1,209	1,422	1,540	1,429	812	604	588	500	447	641	657	1,130
90%	974	1,154	1,380	1,140	661	531	495	384	327	295	528	957
75%	728	934	1,168	837	528	350	295	181	170	144	351	518
50%	496	606	801	629	328	205	156	120	96	111	163	288
25%	403	437	500	361	225	118	91	68	60	64	95	179
10%	199	354	315	264	168	80	49	39	38	35	58	135
5%	148	306	302	196	127	50	41	20	26	18	50	105
2%	126	220	222	180	82	44	35	17	22	13	43	98
0%	117	201	216	124	68	29	22	12	17	12	35	88

Monthly Flows (in CFS) for
02409000 - Weogufka Creek near Weogufka, Ala.

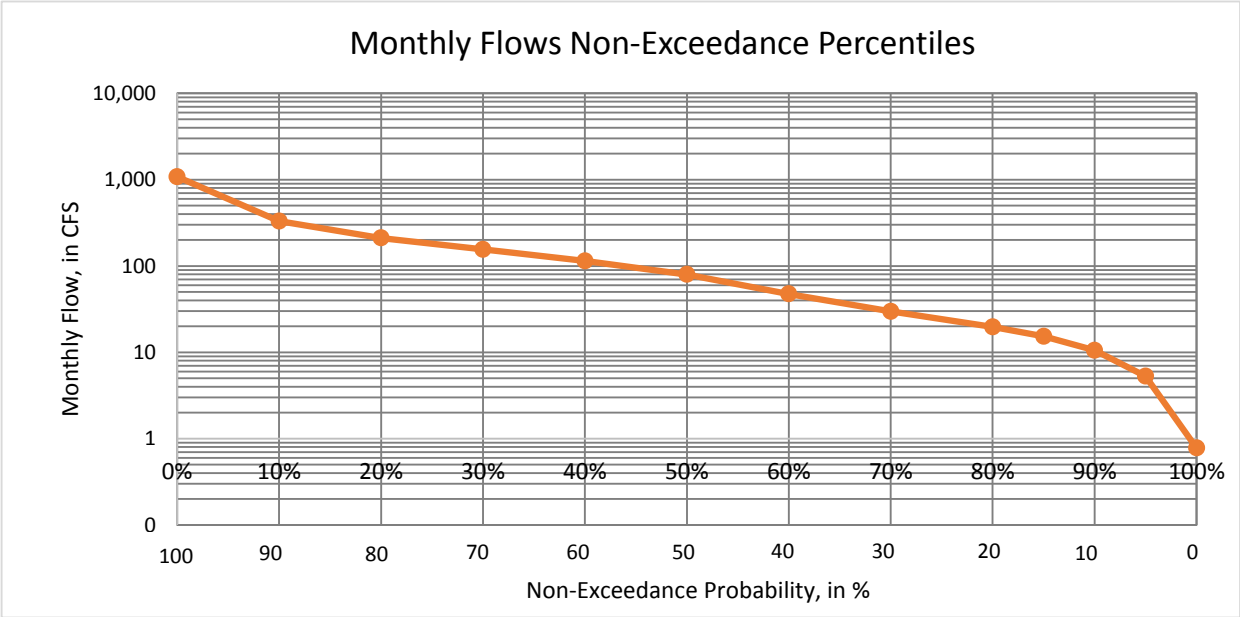
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	241	385	399	404	136	82	182	159	124	204	128	126	213
1976	585	159	507	237	296	97	43	23	22	12	28	87	176
1977	148	101	484	231	57	24	16	11	29	57	88	65	109
1978	268	106	138	102	203	55	22	22	7	4	7	24	80
1979	141	162	481	1,078	164	147	52	25	86	75	136	69	217
1980	232	179	704	442	273	79	25	11	13	30	25	29	171
1981	23	290	165	214	37	21	10	13	7	5	7	42	68
1982	243	614	181	387	111	80	88	51	12	22	53	298	175
1983	176	353	453	681	200	105	37	25	37	30	190	631	242
1984	238	187	224	214	170	48	126	223	25	23	31	80	133
1985	66	255	82	71	86	21	33	30	15	15	17	50	60
1986	26	47	82	25	26	14	7	5	9	5	134	119	41
1987	241	308	339	148	110	47	39	16	6	4	12	35	107
1988	145	156	52	89	35	7	17	3	303	50	80	44	81
1989	127	115	331	317	109	253	259	73	76	107	87	197	171
1990	436	797	769	193	91	42	31	9	5	4	9	19	197
1991	85	148	175	157	213	107	75	28	18	10	34	87	94
1992	170	315	179	216	64	38	26	79	40	18	361	396	157
1993	382	265	268	146	128	46	16	14	11	9	38	43	113
1994	47	171	272	311	85	69	111	121	44	35	58	152	123
1995	121	359	376	143	43	25	14	7	16	361	205	232	158
1996	335	388	489	198	87	44	34	30	65	41	52	170	160
1997	249	349	289	205	83	177	95	38	25	26	48	136	142
1998	280	520	509	287	97	53	52	25	13	13	16	28	156
1999	180	130	155	97	46	100	147	25	9	17	17	20	78
2000	79	55	86	146	15	6	2	2	3	2	86	37	43
2001	126	187	567	283	84	162	32	26	24	14	17	56	131
2002	135	116	118	59	47	24	20	10	31	26	143	347	90
2003	134	273	310	255	558	330	297	108	40	22	72	72	206
2004	88	218	85	68	53	40	36	20	120	24	141	170	87
2005	103	210	375	394	127	161	178	78	19	24	29	50	145
2006	139	175	144	74	88	14	5	5	17	16	160	33	72
2007	138	83	54	46	11	3	5	1	1	1	4	15	30
2008	32	220	114	83	56	15	37	152	24	27	16	156	77
2009	166	126	408	208	137	49	25	27	449	262	370	544	232
2010	445	414	485	138	178	58	11	9	2	6	21	35	149
2011	42	100	315	159	38	12	10	2	3	1	26	61	64
2012	176	89	192	46	57	20	5	14	8	22	6	129	64
2013	231	414	195	256	163	49	129	89	15	21	17	331	158
2014	154	198	258	520	221	189	56	14	10	15	16	126	147

Non-Exceedance Percentiles

02409000 - Weogufka Creek near Weogufka, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	23	47	52	25	11	3	2	1	1	1	4	15	30
5th %	32	82	81	46	26	7	5	2	3	2	7	19	43
10th %	47	99	85	68	37	13	7	5	5	4	8	28	63
15th %	77	105	110	73	42	14	10	7	7	5	15	32	67
20th %	87	116	134	88	47	20	13	9	8	6	16	35	76
30th %	126	154	172	142	57	25	19	13	10	13	17	43	85
40th %	139	173	194	153	85	43	26	15	14	16	27	59	109
Median	151	193	270	202	90	49	34	24	17	21	36	76	132
60th %	176	234	322	215	110	56	38	26	24	24	55	122	148
70th %	234	295	383	255	136	81	53	30	29	26	86	141	158
80th %	244	354	481	313	172	105	98	74	41	36	134	176	172
90th %	340	414	508	408	214	164	151	110	89	78	163	333	206
Maximum	585	797	769	1,078	558	330	297	223	449	361	370	631	242
Average	184	243	295	233	120	73	60	41	45	41	75	134	128

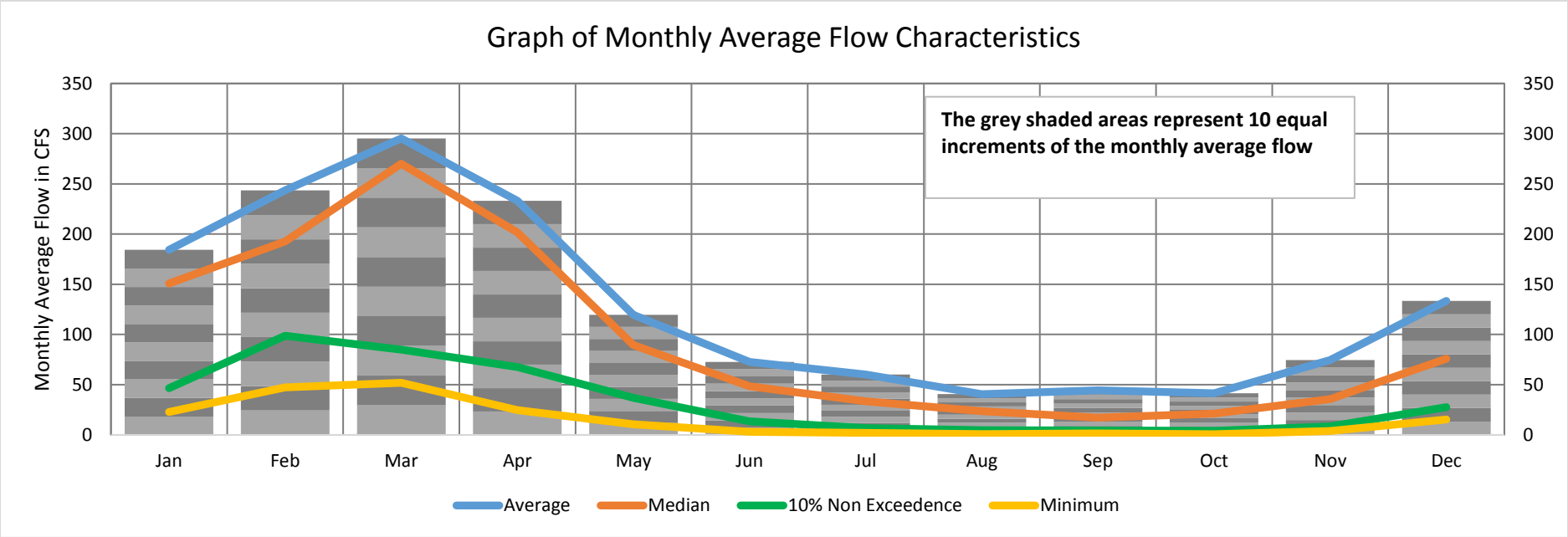
	Flows in CFS
Minimum	0.8
5th %	5
10th %	11
15th %	15
20th %	20
30th %	30
40th %	47
Median	80
60th %	114
70th %	155
80th %	211
90th %	330
Maximum	1,078
Average	129



Q10/Q50	0.13
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.01
Q5/DA	0.07
Q10/DA	0.14
Q15/DA	0.21
Q20/DA	0.27
Q30/DA	0.40
Q40/DA	0.64
Q50/DA	1.08
Q60/DA	1.56
Q70/DA	2.12
Q80/DA	2.87
Q90/DA	4.50
Qmax/DA	14.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

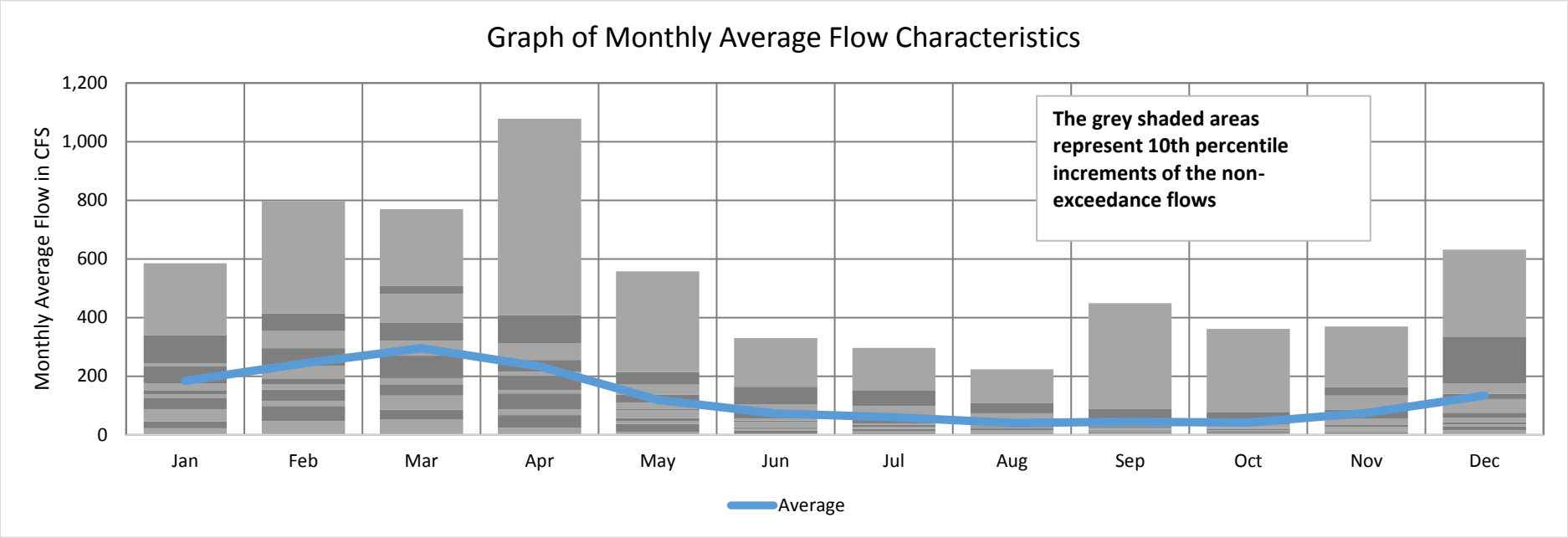
Site #: 02409000 Name: Weogufka Creek near Weogufka, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	184	243	295	233	120	73	60	41	45	41	75	134
100%	585	797	769	1,078	558	330	297	223	449	361	370	631
98%	476	655	718	768	353	270	267	173	335	284	363	563
95%	436	525	574	528	274	192	186	152	133	207	213	404
90%	340	414	508	408	214	164	151	110	89	78	163	333
75%	241	323	419	284	163	97	78	41	38	30	98	159
50%	151	193	270	202	90	49	34	24	17	21	36	76
25%	116	129	152	101	55	23	16	11	8.8	9.7	17	41
10%	47	99	85	68	37	13	6.7	4.7	4.5	4.1	8.4	28
5%	32	82	81	46	26	6.9	5.1	1.8	2.6	1.5	6.9	19
2%	25	53	54	41	14	5.7	4.2	1.4	2.1	0.9	5.6	18
0%	23	47	52	25	11	3.0	2.0	0.8	1.4	0.8	4.0	15

Site #: 02409000 Name: Weogufka Creek near Weogufka, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 73 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	184	243	295	233	120	73	60	41	45	41	75	134
100%	585	797	769	1,078	558	330	297	223	449	361	370	631
98%	476	655	718	768	353	270	267	173	335	284	363	563
95%	436	525	574	528	274	192	186	152	133	207	213	404
90%	340	414	508	408	214	164	151	110	89	78	163	333
75%	241	323	419	284	163	97	78	41	38	30	98	159
50%	151	193	270	202	90	49	34	24	17	21	36	76
25%	116	129	152	101	55	23	16	11	8.8	9.7	17	41
10%	47	99	85	68	37	13	6.7	4.7	4.5	4.1	8.4	28
5%	32	82	81	46	26	6.9	5.1	1.8	2.6	1.5	6.9	19
2%	25	53	54	41	14	5.7	4.2	1.4	2.1	0.9	5.6	18
0%	23	47	52	25	11	3.0	2.0	0.8	1.4	0.8	4.0	15

Monthly Flows (in CFS) for

02411000 - Coosa River at Jordan Dam near Wetumpka, Ala. (represents streamflow for 03150107)

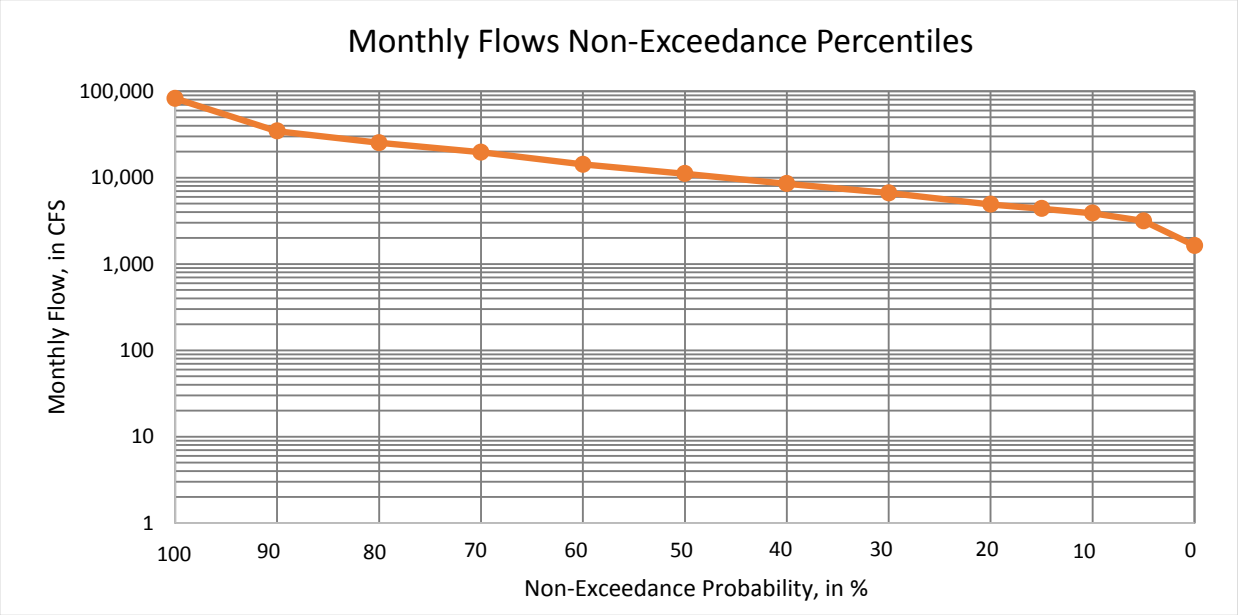
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	33,820	47,220	43,350	29,650	14,130	10,830	12,930	13,900	21,370	25,010	15,490	18,550	23,712
1976	36,800	20,610	57,520	33,180	20,500	12,540	16,050	7,471	5,553	4,760	6,633	14,960	19,765
1977	22,080	14,460	52,370	54,460	10,460	6,088	3,568	4,338	8,986	17,800	29,550	17,200	20,109
1978	36,080	18,770	21,880	10,700	23,860	10,750	4,211	6,916	4,377	3,485	4,445	9,246	12,903
1979	27,280	23,770	58,180	82,520	17,560	13,760	11,550	8,576	14,570	13,700	23,670	12,100	25,530
1980	26,310	24,130	73,730	53,320	30,720	10,120	6,198	3,875	4,837	8,105	8,569	7,820	21,481
1981	4,520	28,920	15,220	19,660	4,087	9,055	4,855	3,190	5,434	3,902	5,103	11,600	9,468
1982	39,470	50,450	25,240	34,040	14,570	8,951	7,311	6,351	3,948	6,811	12,200	48,600	21,331
1983	19,990	35,470	29,770	46,160	28,150	12,560	6,214	4,457	5,558	5,354	18,500	57,400	22,378
1984	34,040	20,640	25,070	29,030	31,310	7,735	11,390	20,680	5,226	7,321	7,637	12,200	17,724
1985	9,339	32,290	11,130	7,633	9,629	4,313	11,560	8,021	4,103	6,313	7,524	9,937	10,014
1986	5,878	8,889	8,746	4,452	2,384	2,802	2,605	2,577	2,929	3,007	15,170	17,600	6,401
1987	27,630	26,150	35,750	10,890	5,689	6,952	6,670	2,740	3,127	3,465	2,813	5,265	11,368
1988	17,490	12,110	7,516	7,859	4,890	2,688	2,071	3,008	9,701	4,961	11,570	7,967	7,613
1989	25,190	17,480	40,140	24,350	11,310	30,790	26,070	7,387	8,505	23,470	21,790	22,730	21,638
1990	42,230	75,180	68,500	15,740	12,820	6,014	5,868	4,519	3,867	6,393	6,379	13,650	21,475
1991	15,890	21,780	26,730	22,880	30,330	11,820	8,195	6,100	6,445	5,374	8,320	14,300	14,817
1992	20,800	24,540	27,190	13,240	5,935	9,523	6,872	9,683	11,090	7,185	32,640	36,070	17,007
1993	46,090	21,830	31,080	19,050	12,000	6,637	5,355	3,949	3,504	2,750	5,059	9,774	13,917
1994	15,720	24,800	31,500	37,530	9,411	8,113	14,240	9,058	9,599	16,100	10,160	24,010	17,473
1995	17,180	34,590	35,480	9,997	7,219	5,152	4,194	3,675	4,115	29,100	29,160	19,880	16,547
1996	34,760	46,250	49,420	20,610	10,570	8,842	5,695	6,140	7,477	6,729	11,590	19,460	18,813
1997	29,950	28,010	36,030	19,920	21,840	25,000	9,265	7,246	5,494	13,270	15,040	16,910	18,953
1998	34,430	48,990	40,130	36,750	14,780	8,744	5,685	5,803	4,013	3,515	5,421	10,540	18,030
1999	22,940	25,340	19,700	9,150	11,230	11,450	14,660	4,659	3,751	3,763	6,279	5,486	11,463
2000	8,241	7,437	15,050	37,140	6,101	3,220	2,965	3,266	3,072	3,332	6,720	6,045	8,515
2001	14,000	18,630	42,660	20,800	7,306	13,670	8,682	7,049	8,093	4,537	5,489	12,290	13,577
2002	22,100	15,010	14,190	15,560	13,400	4,374	4,090	3,430	7,522	8,741	21,790	38,220	14,046
2003	14,830	30,610	36,460	17,870	57,920	23,740	29,400	13,100	6,642	6,484	9,870	12,360	21,611
2004	14,910	27,210	11,450	7,919	8,792	8,688	7,904	5,233	18,220	9,488	34,570	33,280	15,525
2005	12,360	21,450	27,520	31,360	11,270	12,210	24,160	9,544	4,815	4,459	6,172	12,090	14,742
2006	19,520	22,330	17,530	11,690	9,740	4,093	3,333	3,945	2,498	4,854	12,170	7,738	9,877
2007	15,020	8,490	6,563	4,491	3,861	2,353	2,822	3,592	3,184	1,657	1,843	1,634	4,612
2008	4,552	13,680	16,520	9,871	9,696	3,736	2,806	7,659	4,015	3,392	3,567	17,930	8,104
2009	30,290	10,960	30,610	22,500	25,930	6,218	4,449	4,714	21,700	32,870	33,910	46,300	22,649
2010	29,200	37,560	34,610	14,750	15,510	8,078	4,490	4,376	3,146	3,075	4,087	7,206	13,715
2011	9,035	12,010	39,070	26,760	7,060	3,927	4,551	4,045	6,075	4,318	7,792	19,490	12,021
2012	21,910	13,570	21,470	6,037	4,362	2,907	3,729	4,824	4,421	4,845	3,727	13,080	8,749
2013	33,140	37,660	22,600	25,410	39,070	13,070	20,800	13,410	7,562	7,523	8,375	39,679	22,328
2014	26,357	27,692	23,246	35,192	12,116	10,894	5,854	3,896	4,231	6,853	8,984	18,234	15,199

Non-Exceedance Percentiles

02411000 - Coosa River at Jordan Dam near Wetumpka, Ala. (represents streamflow for 03150107)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634	4,612
5th %	5,812	8,869	8,685	5,960	4,076	2,796	2,796	2,995	3,065	2,994	3,529	5,475	7,552
10th %	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090	8,473
15th %	11,907	13,351	14,921	8,965	5,898	3,898	3,533	3,568	3,456	3,454	4,967	7,808	9,360
20th %	14,664	14,304	16,260	9,972	6,868	4,269	4,018	3,835	3,844	3,509	5,357	8,990	9,987
30th %	15,839	18,728	21,757	12,775	9,225	6,066	4,478	4,016	4,077	4,417	6,349	11,282	12,639
40th %	19,802	21,648	25,172	17,018	10,172	7,422	5,553	4,494	4,403	4,850	7,592	12,254	13,995
Median	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975	15,362
60th %	26,329	25,664	32,744	23,468	13,052	9,242	7,048	6,224	5,765	6,762	10,724	17,360	17,573
70th %	29,425	28,283	36,159	29,216	14,999	10,849	8,857	7,288	7,491	7,382	13,052	18,823	19,196
80th %	33,864	34,766	40,644	34,270	22,244	12,276	11,834	8,132	8,601	10,244	19,158	22,986	21,476
90th %	36,152	46,347	52,885	38,393	30,369	13,679	16,525	10,025	11,438	18,367	29,199	38,366	22,333
Maximum	46,090	75,180	73,730	82,520	57,920	30,790	29,400	20,680	21,700	32,870	34,570	57,400	25,530
Average	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221	15,630

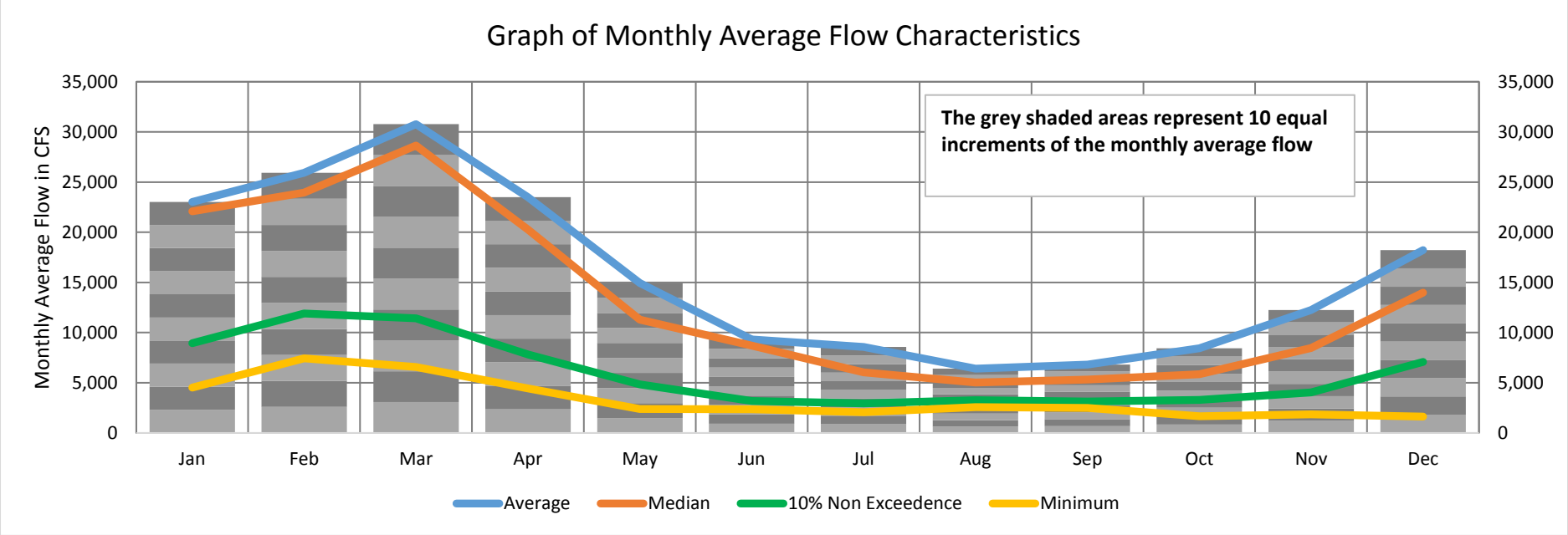
	Flows in CFS
Minimum	1,634.0
5th %	3,145
10th %	3,874
15th %	4,376
20th %	4,883
30th %	6,641
40th %	8,499
Median	11,110
60th %	14,210
70th %	19,672
80th %	25,260
90th %	34,444
Maximum	82,520
Average	15,684



Q10/Q50	0.35
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.16
Q5/DA	0.31
Q10/DA	0.38
Q15/DA	0.43
Q20/DA	0.48
Q30/DA	0.66
Q40/DA	0.84
Q50/DA	1.10
Q60/DA	1.41
Q70/DA	1.95
Q80/DA	2.50
Q90/DA	3.41
Qmax/DA	8.17

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

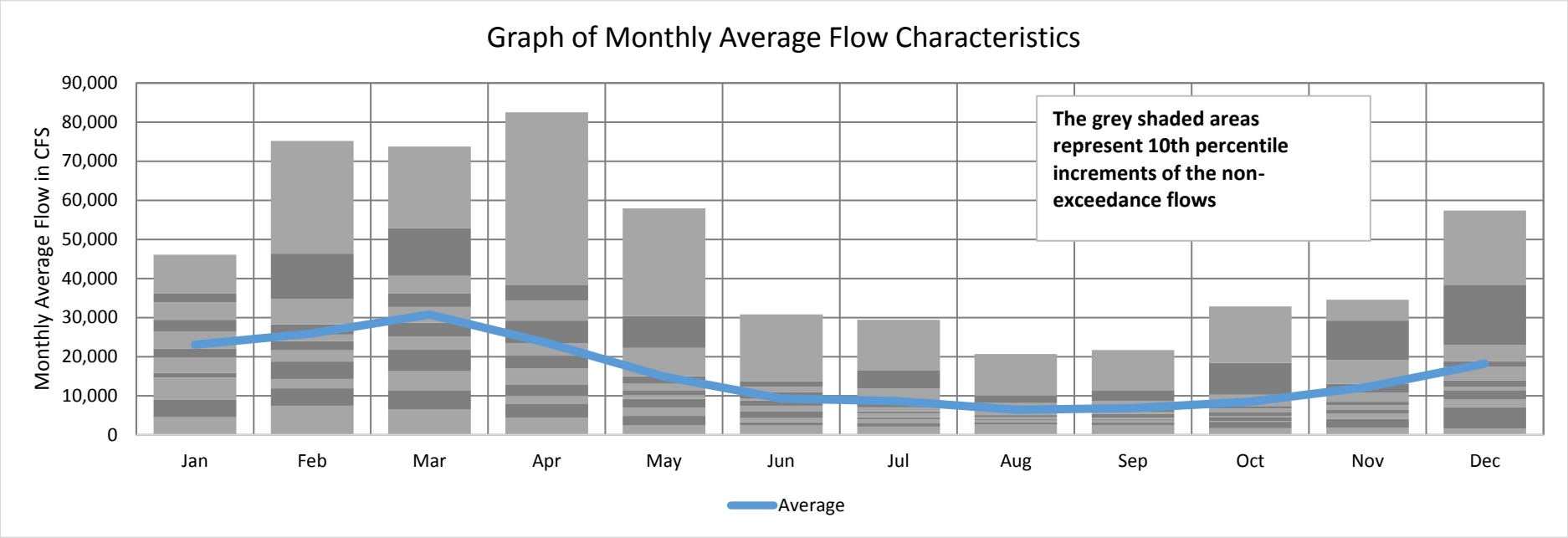
Site #: 02411000 Name: Coosa River at Jordan Dam near Wetumpka, Ala. (represents streamflow for 03150107)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221
100%	46,090	75,180	73,730	82,520	57,920	30,790	29,400	20,680	21,700	32,870	34,570	57,400
98%	43,079	55,891	69,651	60,633	43,217	26,274	26,803	15,392	21,443	29,929	34,055	50,536
95%	39,608	49,063	58,696	53,377	31,698	23,803	24,256	13,435	18,378	25,215	32,704	46,415
90%	36,152	46,347	52,885	38,393	30,369	13,679	16,525	10,025	11,438	18,367	29,199	38,366
75%	31,003	31,030	39,335	31,815	18,295	11,543	11,430	7,518	7,695	8,264	15,250	19,588
50%	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975
25%	14,993	16,863	19,158	10,843	7,284	4,958	4,207	3,933	3,997	3,867	6,001	9,896
10%	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090
5%	5,812	8,869	8,685	5,960	4,076	2,796	2,796	2,995	3,065	2,994	3,529	5,475
2%	4,545	8,258	7,306	4,482	3,536	2,614	2,488	2,704	2,834	2,510	2,600	4,466
0%	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634

Site #: 02411000 Name: Coosa River at Jordan Dam near Wetumpka, Ala. (represents streamflow for 03150107)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 10,102 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	23,034	25,924	30,773	23,503	14,938	9,310	8,583	6,410	6,819	8,452	12,244	18,221
100%	46,090	75,180	73,730	82,520	57,920	30,790	29,400	20,680	21,700	32,870	34,570	57,400
98%	43,079	55,891	69,651	60,633	43,217	26,274	26,803	15,392	21,443	29,929	34,055	50,536
95%	39,608	49,063	58,696	53,377	31,698	23,803	24,256	13,435	18,378	25,215	32,704	46,415
90%	36,152	46,347	52,885	38,393	30,369	13,679	16,525	10,025	11,438	18,367	29,199	38,366
75%	31,003	31,030	39,335	31,815	18,295	11,543	11,430	7,518	7,695	8,264	15,250	19,588
50%	22,090	23,950	28,645	20,265	11,290	8,716	6,033	5,029	5,330	5,844	8,472	13,975
25%	14,993	16,863	19,158	10,843	7,284	4,958	4,207	3,933	3,997	3,867	6,001	9,896
10%	8,956	11,905	11,418	7,836	4,837	3,189	2,951	3,258	3,144	3,306	4,051	7,090
5%	5,812	8,869	8,685	5,960	4,076	2,796	2,796	2,995	3,065	2,994	3,529	5,475
2%	4,545	8,258	7,306	4,482	3,536	2,614	2,488	2,704	2,834	2,510	2,600	4,466
0%	4,520	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,498	1,657	1,843	1,634

Monthly Flows (in CFS) for

02411930 - Tallapoosa river below Tallapoosa, Ga.

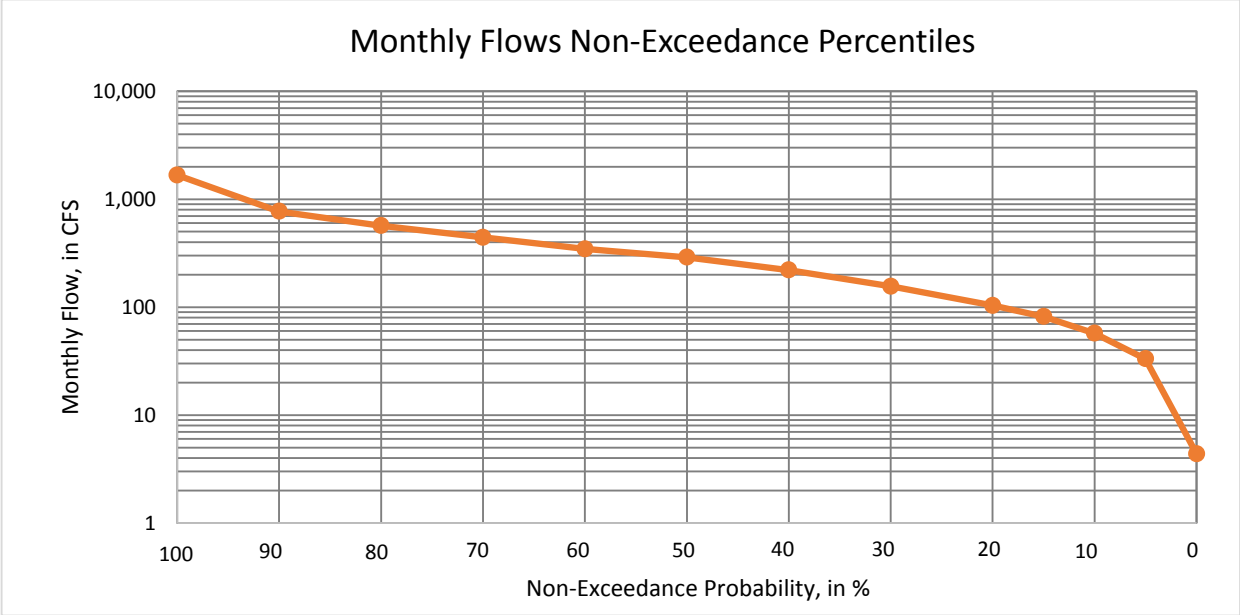
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	635	999	1,008	585	462	318	300	426	618	682	489	436	577
1976	989	485	1,341	847	549	337	319	165	133	128	172	358	486
1977	569	435	1,642	1,278	313	166	90	89	99	408	700	297	507
1978	814	357	442	376	647	463	133	149	55	45	68	179	311
1979	443	539	1,364	1,671	473	439	248	151	368	343	515	301	570
1980	687	569	1,405	1,019	715	324	143	80	107	211	179	156	466
1981	149	649	382	371	309	182	122	81	103	70	87	221	224
1982	657	1,321	465	1,003	466	338	248	190	86	171	336	875	507
1983	549	771	742	1,012	743	344	156	77	107	112	503	1,270	531
1984	633	632	611	778	993	280	309	601	169	116	150	303	465
1985	327	801	371	330	424	206	314	254	193	185	222	332	327
1986	213	280	335	192	151	89	39	30	55	60	270	269	164
1987	608	477	732	373	215	209	177	60	30	46	84	159	263
1988	417	350	194	283	134	40	57	70	82	66	152	109	162
1989	307	339	617	526	346	660	526	261	264	547	445	504	446
1990	876	1,344	1,649	521	342	190	122	70	43	89	119	190	458
1991	290	694	584	496	630	400	289	170	143	104	365	318	371
1992	502	800	633	469	233	256	139	191	165	144	725	720	412
1993	934	550	852	595	455	257	113	96	33	42	119	193	353
1994	263	566	661	580	267	183	577	249	191	220	268	366	365
1995	321	919	835	438	234	216	82	69	96	869	616	413	422
1996	837	890	1,131	520	301	241	111	146	162	117	223	415	422
1997	762	775	877	603	398	424	365	191	140	176	273	355	443
1998	607	1,062	1,033	900	401	254	212	263	76	96	141	186	432
1999	373	471	491	273	233	239	278	48	21	47	68	87	218
2000	245	274	349	429	112	49	17	23	19	15	204	130	154
2001	322	397	901	430	232	306	127	66	66	47	56	128	256
2002	434	260	349	298	307	87	86	80	378	239	562	939	335
2003	406	625	781	579	1,392	541	732	319	156	106	338	299	523
2004	355	595	328	339	243	250	258	125	494	171	538	509	348
2005	333	444	603	687	298	309	977	338	127	103	175	339	395
2006	550	833	618	490	251	110	69	64	91	88	299	166	299
2007	347	260	243	149	75	27	53	18	10	4	13	42	103
2008	90	323	346	261	187	48	57	51	24	23	30	232	139
2009	329	268	507	415	353	119	69	137	390	613	731	915	405
2010	778	834	929	462	537	273	115	52	13	23	45	106	345
2011	143	244	704	367	103	64	84	18	27	24	97	183	171
2012	299	190	310	130	89	36	46	19	12	19	24	157	111
2013	480	626	409	474	447	279	469	348	290	151	160	1,035	430
2014	556	556	536	751	364	333	160	113	57	68	214	372	338

Non-Exceedance Percentiles

02411930 - Tallapoosa river below Tallapoosa, Ga.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	90	190	194	130	75	27	17	18	10	4	13	42	103
5th %	148	259	307	190	102	40	45	18	13	19	30	105	137
10th %	242	267	334	272	132	49	57	29	21	23	55	126	161
15th %	286	279	348	295	182	84	67	51	27	39	68	152	170
20th %	306	336	367	337	228	106	79	58	33	46	86	159	223
30th %	328	424	458	375	240	183	104	70	57	64	134	185	307
40th %	366	482	565	435	300	213	122	80	84	88	167	228	342
Median	438	561	618	482	328	252	141	105	101	105	209	300	368
60th %	549	625	715	523	378	276	191	148	129	121	269	335	416
70th %	607	717	840	588	450	312	264	176	158	171	336	368	435
80th %	663	808	945	756	486	337	310	250	191	213	492	450	465
90th %	816	927	1,344	1,004	654	426	474	321	369	422	567	879	509
Maximum	989	1,344	1,649	1,671	1,392	660	977	601	618	869	731	1,270	577
Average	486	595	708	557	386	247	220	149	142	170	269	364	356

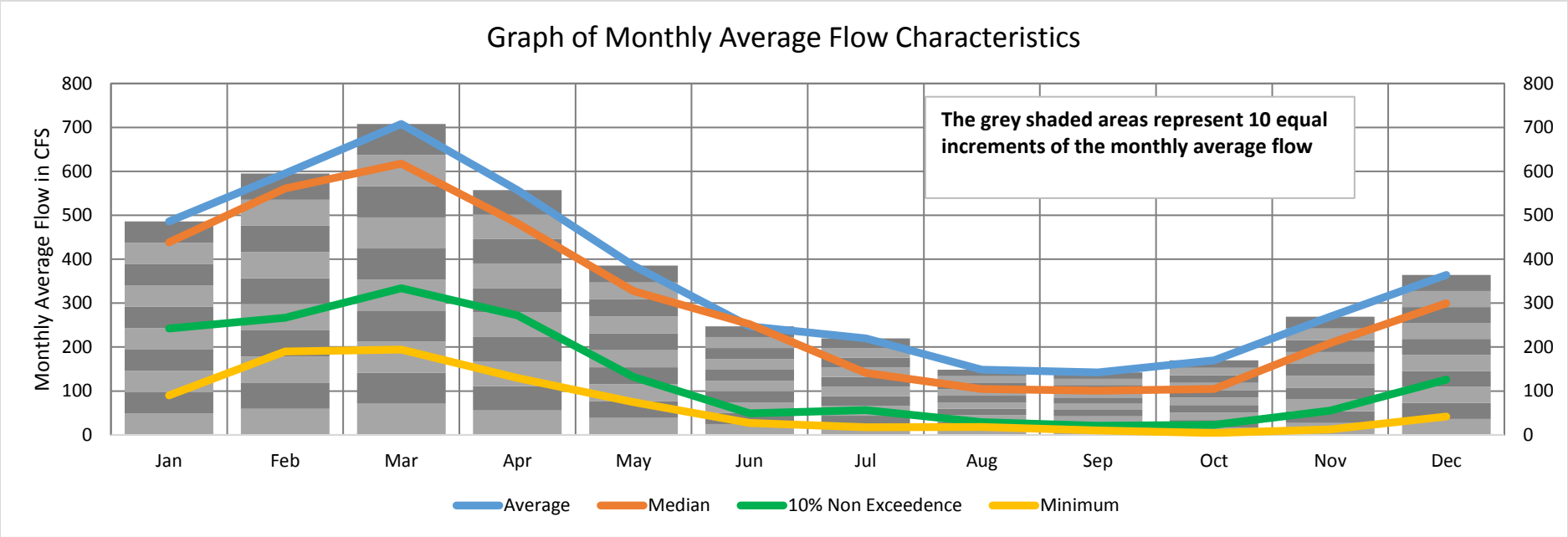
	Flows in CFS
Minimum	4.4
5th %	33
10th %	57
15th %	82
20th %	104
30th %	156
40th %	221
Median	290
60th %	346
70th %	442
80th %	569
90th %	771
Maximum	1,671
Average	358



Q10/Q50	0.20
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.02
Q5/DA	0.12
Q10/DA	0.21
Q15/DA	0.30
Q20/DA	0.38
Q30/DA	0.57
Q40/DA	0.81
Q50/DA	1.07
Q60/DA	1.27
Q70/DA	1.63
Q80/DA	2.09
Q90/DA	2.84
Qmax/DA	6.15

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

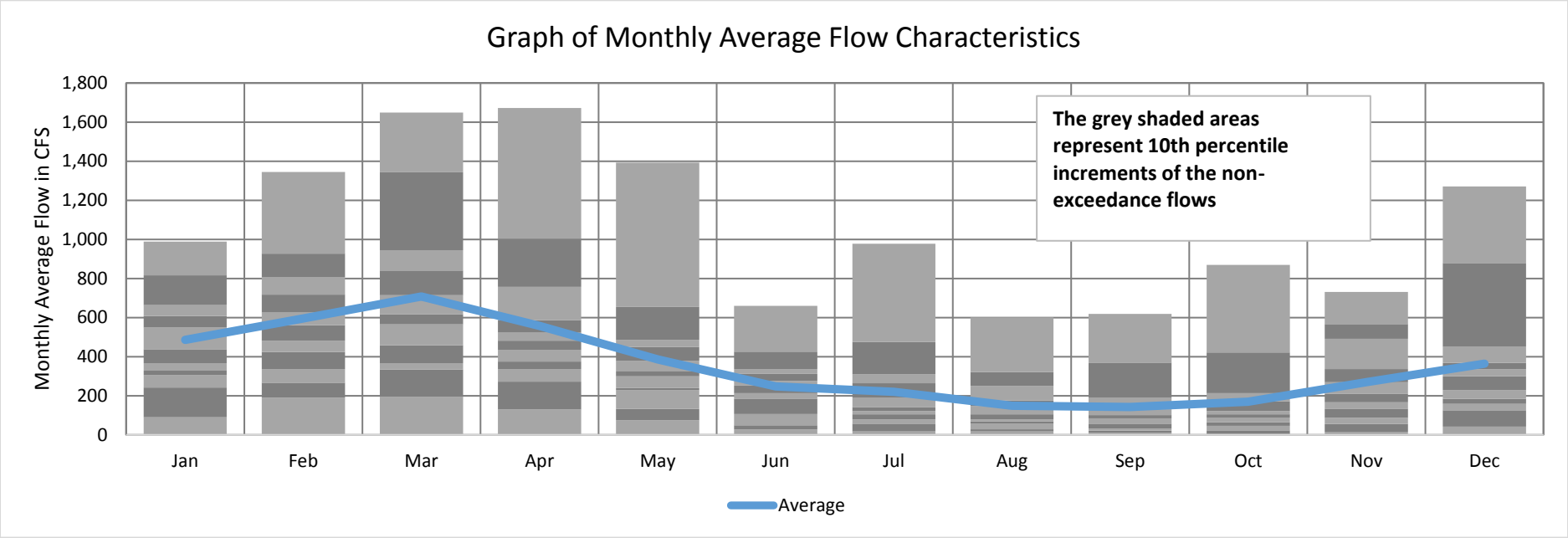
Site #: 02411930 Name: Tallapoosa river below Tallapoosa, Ga.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	486	595	708	557	386	247	220	149	142	170	269	364
100%	989	1,344	1,649	1,671	1,392	660	977	601	618	869	731	1,270
98%	946	1,326	1,644	1,365	1,081	567	786	464	521	723	726	1,087
95%	879	1,075	1,417	1,032	755	467	584	352	395	617	701	944
90%	816	927	1,344	1,004	654	426	474	321	369	422	567	879
75%	633	781	883	624	463	326	292	191	166	178	385	413
50%	438	561	618	482	328	252	141	105	101	105	209	300
25%	322	355	402	370	233	155	85	65	52	47	114	176
10%	242	267	334	272	132	49	57	29	21	23	55	126
5%	148	259	307	190	102	40	45	18	13	19	30	105
2%	131	232	232	145	86	34	34	18	12	13	22	77
0%	90	190	194	130	75	27	17	18	10.0	4.4	13	42

Site #: 02411930 Name: Tallapoosa river below Tallapoosa, Ga.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 272 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	486	595	708	557	386	247	220	149	142	170	269	364
100%	989	1,344	1,649	1,671	1,392	660	977	601	618	869	731	1,270
98%	946	1,326	1,644	1,365	1,081	567	786	464	521	723	726	1,087
95%	879	1,075	1,417	1,032	755	467	584	352	395	617	701	944
90%	816	927	1,344	1,004	654	426	474	321	369	422	567	879
75%	633	781	883	624	463	326	292	191	166	178	385	413
50%	438	561	618	482	328	252	141	105	101	105	209	300
25%	322	355	402	370	233	155	85	65	52	47	114	176
10%	242	267	334	272	132	49	57	29	21	23	55	126
5%	148	259	307	190	102	40	45	18	13	19	30	105
2%	131	232	232	145	86	34	34	18	12	13	22	77
0%	90	190	194	130	75	27	17	18	10.0	4.4	13	42

Monthly Flows (in CFS) for
02412000 - Tallapoosa River near Heflin, Ala.

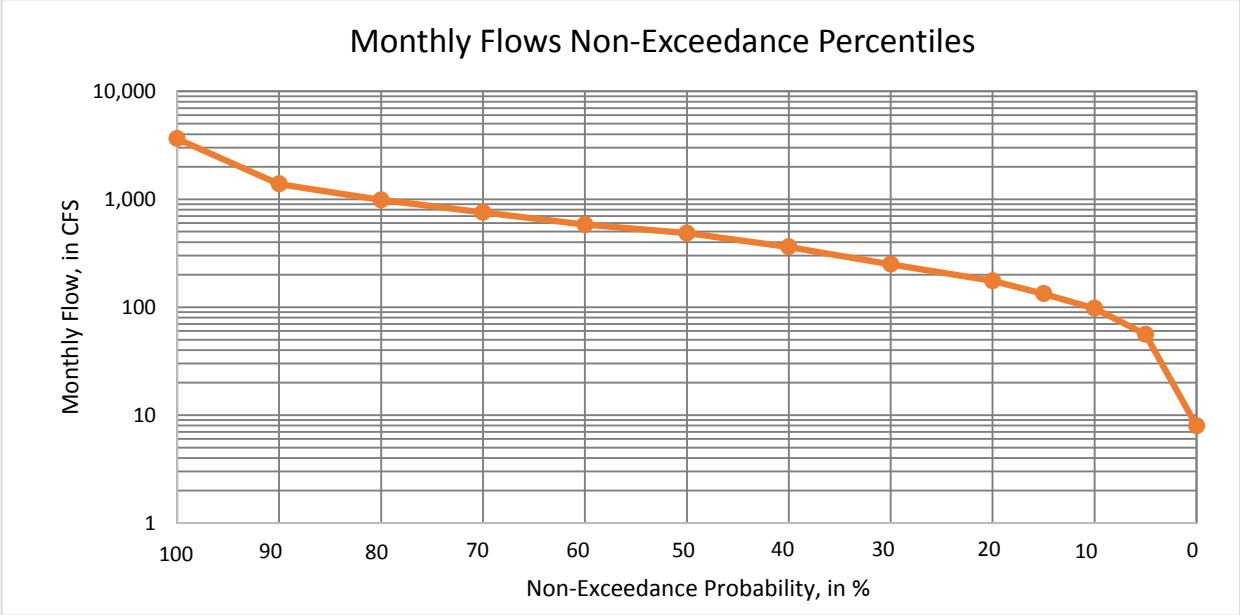
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,112	1,857	1,876	1,017	790	533	503	725	1,081	1,203	839	744	1,018
1976	1,834	832	2,668	1,533	950	567	535	271	218	210	284	604	878
1977	989	742	3,531	2,507	525	274	147	145	161	692	1,239	497	955
1978	1,466	602	754	635	1,136	792	218	246	90	73	111	295	536
1979	757	932	2,726	3,626	810	749	413	249	622	578	887	504	1,068
1980	1,214	987	2,837	1,901	1,268	545	235	130	175	350	296	256	850
1981	244	1,140	646	627	518	301	200	132	168	115	142	367	378
1982	1,156	2,616	796	1,866	798	570	413	315	140	282	565	1,592	913
1983	951	1,379	1,322	1,884	1,323	580	256	126	175	183	865	2,488	958
1984	1,109	1,107	1,067	1,394	1,844	468	518	1,049	278	190	246	507	815
1985	549	1,440	628	554	722	341	527	423	319	305	368	559	556
1986	353	468	563	317	248	146	63	48	90	98	450	449	273
1987	1,061	817	1,301	630	356	346	292	98	49	75	138	263	451
1988	709	590	321	473	220	65	93	115	133	107	249	178	269
1989	515	571	1,079	909	583	1,161	909	436	440	947	759	866	766
1990	1,593	2,675	3,551	898	576	314	200	115	70	145	195	314	878
1991	486	1,227	1,016	852	1,103	679	484	281	236	170	617	534	636
1992	863	1,437	1,110	802	386	426	228	316	271	237	1,288	1,278	715
1993	1,716	953	1,544	1,037	777	427	185	158	54	68	195	319	619
1994	439	983	1,163	1,009	446	303	1,002	414	315	365	448	618	624
1995	539	1,685	1,509	746	388	358	134	113	157	1,579	1,077	701	743
1996	1,514	1,623	2,154	897	504	401	181	241	267	191	370	706	750
1997	1,361	1,387	1,595	1,052	675	722	617	316	231	290	455	598	772
1998	1,060	1,997	1,932	1,645	680	423	352	438	124	158	232	307	771
1999	631	807	844	456	387	397	465	78	34	77	111	142	367
2000	404	481	581	792	212	98	29	51	32	30	348	207	270
2001	538	661	1,667	731	338	448	225	121	120	84	107	235	439
2002	778	424	517	505	517	148	141	111	574	368	877	1,632	551
2003	691	1,100	1,334	956	2,766	934	1,305	521	251	199	617	504	933
2004	571	985	523	552	363	338	383	194	726	256	929	875	554
2005	559	757	1,052	1,213	499	518	1,809	568	208	175	291	525	682
2006	950	1,502	1,039	707	445	179	103	89	156	147	505	256	499
2007	560	407	381	249	124	44	81	25	18	8	24	73	165
2008	177	622	600	488	360	92	73	81	38	39	54	447	254
2009	499	411	972	687	639	184	119	221	563	1,169	1,298	1,728	710
2010	1,383	1,527	1,684	753	847	393	181	79	25	37	76	172	592
2011	232	398	1,291	655	180	100	128	39	46	42	179	313	300
2012	593	318	639	226	207	77	82	56	49	36	35	301	219
2013	847	1,255	731	887	874	431	833	589	399	233	243	1,839	762
2014	758	765	893	1,465	699	561	240	169	86	107	364	636	559

Non-Exceedance Percentiles

02412000 - Tallapoosa River near Heflin, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	177	318	321	226	124	44	29	25	18	8	24	73	165
5th %	244	407	510	313	206	76	73	48	31	35	53	170	252
10th %	398	422	559	472	219	97	82	56	37	39	104	204	270
15th %	479	479	598	503	325	139	101	79	48	64	111	252	296
20th %	512	586	637	554	359	173	126	88	53	74	141	261	376
30th %	556	718	784	649	388	302	171	114	90	104	221	311	525
40th %	616	813	999	740	502	344	200	128	137	146	270	415	558
Median	757	968	1,073	827	551	399	232	163	165	179	356	504	630
60th %	897	1,103	1,295	902	677	429	316	243	212	203	449	544	726
70th %	1,060	1,292	1,520	1,023	781	523	429	291	255	264	580	623	767
80th %	1,168	1,452	1,722	1,408	852	567	520	416	316	353	844	768	855
90th %	1,471	1,702	2,674	1,868	1,149	725	841	526	564	718	944	1,596	935
Maximum	1,834	2,675	3,551	3,626	2,766	1,161	1,809	1,049	1,081	1,579	1,298	2,488	1,068
Average	844	1,062	1,311	1,003	677	411	372	247	230	290	459	636	626

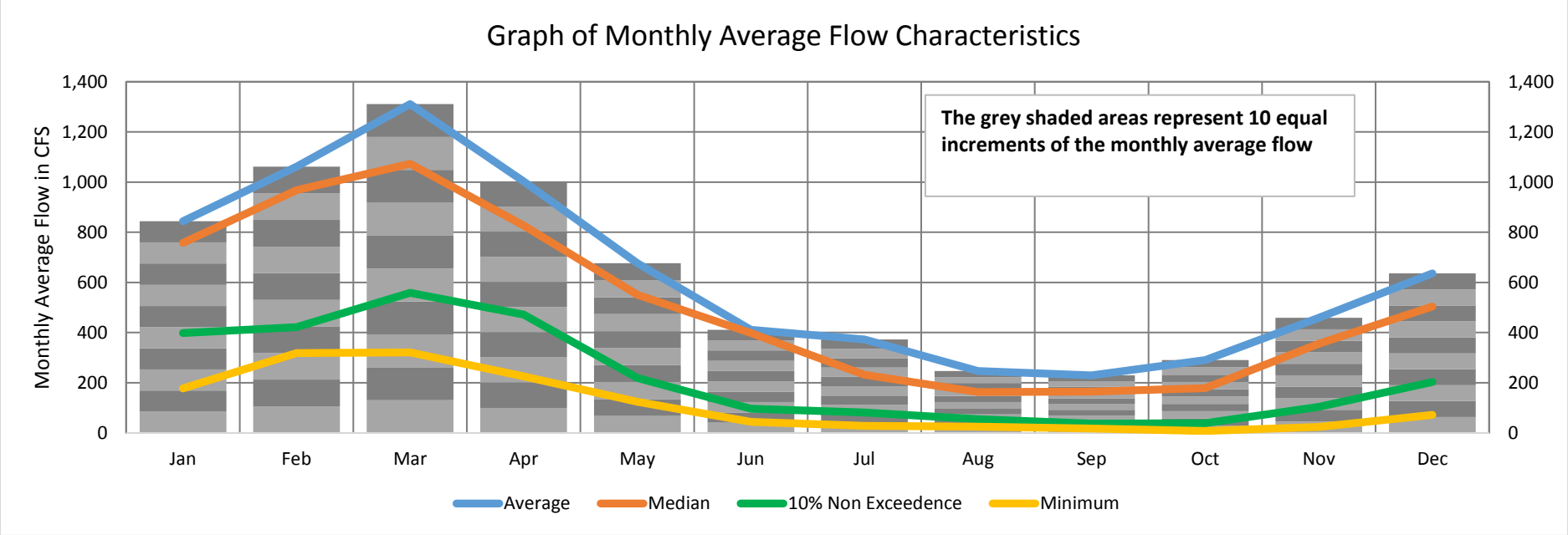
	Flows in CFS
Minimum	7.9
5th %	56
10th %	97
15th %	133
20th %	175
30th %	249
40th %	361
Median	485
60th %	580
70th %	753
80th %	983
90th %	1,379
Maximum	3,626
Average	629



Q10/Q50	0.20
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.02
Q5/DA	0.13
Q10/DA	0.22
Q15/DA	0.30
Q20/DA	0.39
Q30/DA	0.56
Q40/DA	0.81
Q50/DA	1.08
Q60/DA	1.30
Q70/DA	1.68
Q80/DA	2.19
Q90/DA	3.08
Qmax/DA	8.09

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

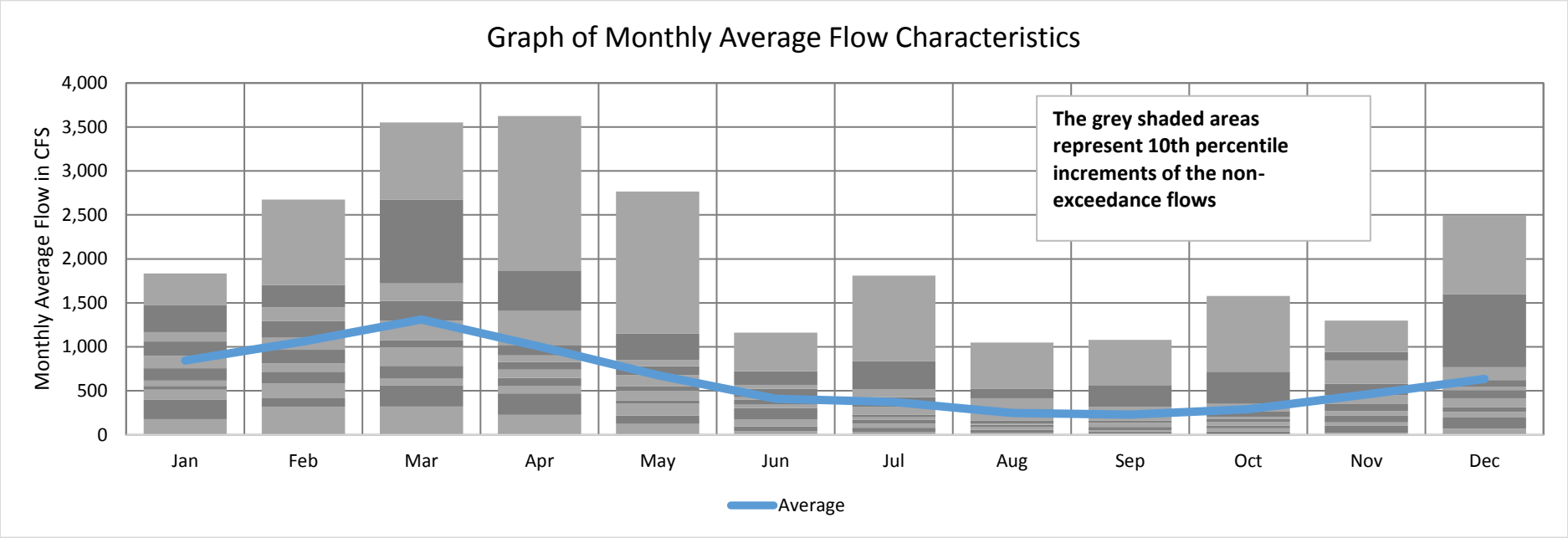
Site #: 02412000 Name: Tallapoosa River near Heflin, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	844	1,062	1,311	1,003	677	411	372	247	230	290	459	636
100%	1,834	2,675	3,551	3,626	2,766	1,161	1,809	1,049	1,081	1,579	1,298	2,488
98%	1,742	2,629	3,535	2,753	2,047	984	1,416	796	804	1,286	1,290	1,982
95%	1,599	2,028	2,872	1,931	1,349	799	1,017	595	627	1,171	1,241	1,734
90%	1,471	1,702	2,674	1,868	1,149	725	841	526	564	718	944	1,596
75%	1,110	1,400	1,613	1,092	801	549	489	316	273	293	653	702
50%	757	968	1,073	827	551	399	232	163	165	179	356	504
25%	539	617	709	630	380	252	139	108	82	83	191	299
10%	398	422	559	472	219	97	82	56	37	39	104	204
5%	244	407	510	313	206	76	73	48	31	35	53	170
2%	220	381	368	244	168	61	55	36	24	25	33	127
0%	177	318	321	226	124	44	29	25	18	7.9	24	73

Site #: 02412000 Name: Tallapoosa River near Heflin, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 448 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	844	1,062	1,311	1,003	677	411	372	247	230	290	459	636
100%	1,834	2,675	3,551	3,626	2,766	1,161	1,809	1,049	1,081	1,579	1,298	2,488
98%	1,742	2,629	3,535	2,753	2,047	984	1,416	796	804	1,286	1,290	1,982
95%	1,599	2,028	2,872	1,931	1,349	799	1,017	595	627	1,171	1,241	1,734
90%	1,471	1,702	2,674	1,868	1,149	725	841	526	564	718	944	1,596
75%	1,110	1,400	1,613	1,092	801	549	489	316	273	293	653	702
50%	757	968	1,073	827	551	399	232	163	165	179	356	504
25%	539	617	709	630	380	252	139	108	82	83	191	299
10%	398	422	559	472	219	97	82	56	37	39	104	204
5%	244	407	510	313	206	76	73	48	31	35	53	170
2%	220	381	368	244	168	61	55	36	24	25	33	127
0%	177	318	321	226	124	44	29	25	18	7.9	24	73

Monthly Flows (in CFS) for

02413210 - Little Tallapoosa River at St. Hwy 10 near Bowdon, Ga.

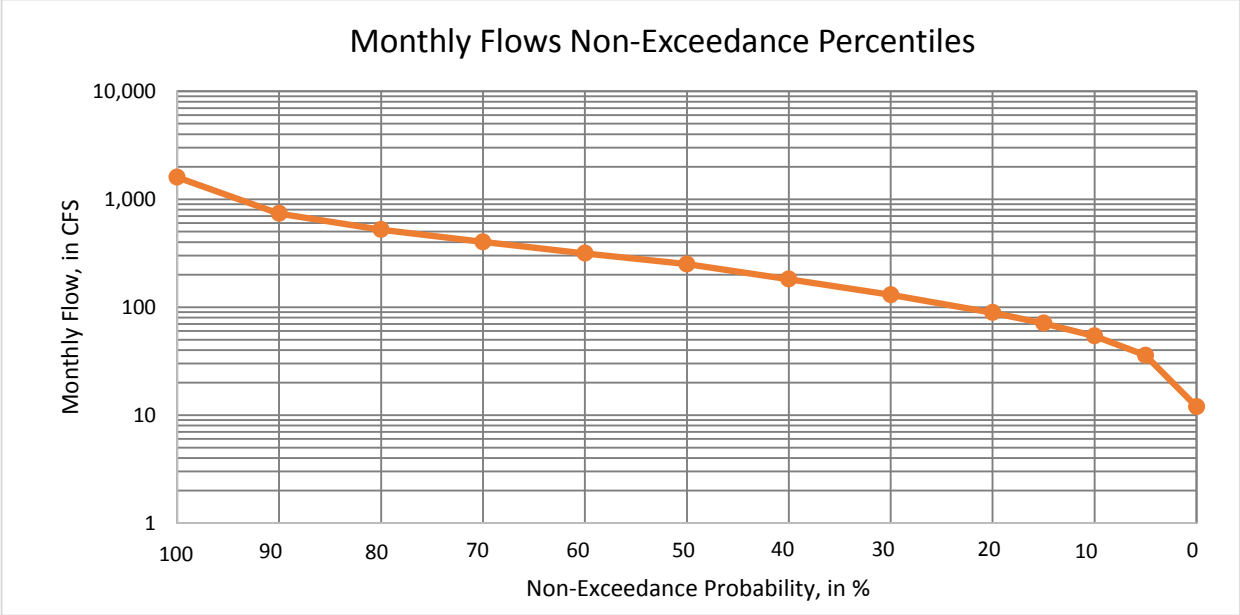
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	592	960	1,161	784	477	450	505	515	472	549	418	376	603
1976	885	441	1,502	644	499	310	374	120	97	127	162	370	463
1977	527	315	1,091	835	242	137	82	68	75	228	523	250	365
1978	834	330	378	402	502	314	85	192	50	39	58	131	277
1979	355	470	690	1,500	376	392	162	121	308	235	334	205	426
1980	517	526	1,315	797	605	248	107	71	89	171	141	135	393
1981	117	602	347	373	476	219	89	60	79	49	65	166	217
1982	526	1,192	396	782	376	315	191	158	71	160	270	810	432
1983	534	776	823	996	480	243	109	89	94	83	344	1,026	464
1984	534	537	608	678	590	204	285	619	117	96	130	247	387
1985	263	672	295	250	421	118	168	149	116	161	204	335	260
1986	197	242	286	165	116	80	37	37	55	57	191	254	143
1987	658	413	608	341	232	316	192	83	38	32	66	114	257
1988	294	319	179	291	127	40	69	41	92	138	154	122	154
1989	250	266	435	493	247	557	501	192	192	391	272	399	350
1990	760	1,389	1,595	407	266	158	82	57	35	66	83	139	414
1991	246	473	527	523	635	496	368	198	151	110	448	342	375
1992	569	722	569	414	182	193	113	157	123	119	790	795	393
1993	830	554	750	511	365	205	102	73	36	40	102	155	309
1994	240	393	508	460	221	155	641	303	346	245	272	331	343
1995	309	1,001	779	378	175	136	60	63	69	784	557	388	388
1996	818	1,059	1,123	402	234	150	83	128	130	108	181	303	390
1997	625	723	996	381	262	449	319	164	102	195	293	409	408
1998	600	1,154	1,318	752	435	232	146	197	73	78	90	124	429
1999	291	350	357	186	173	165	256	42	18	45	63	87	169
2000	181	264	308	473	105	50	20	29	24	23	147	111	143
2001	296	304	1,000	482	188	264	128	67	71	43	51	102	250
2002	394	246	258	246	291	76	69	33	292	266	619	765	296
2003	364	596	675	505	1,318	753	724	317	133	111	283	278	505
2004	295	541	247	419	179	190	208	98	496	156	538	497	319
2005	321	529	736	758	320	287	1,109	345	116	113	157	273	422
2006	508	725	522	336	253	100	76	50	89	80	315	163	265
2007	334	252	219	145	68	29	67	18	12	12	18	48	101
2008	104	352	398	273	282	44	29	60	21	26	34	260	156
2009	224	158	686	457	322	98	58	54	1,069	639	892	1,279	496
2010	763	879	948	315	549	216	132	66	24	86	130	150	352
2011	168	334	714	452	100	60	47	15	49	27	84	206	187
2012	457	237	553	144	133	76	50	38	34	35	29	169	163
2013	263	654	455	457	424	250	325	261	128	94	128	678	342
2014	410	424	373	1,146	244	167	80	47	31	42	224	522	307

Non-Exceedance Percentiles

02413210 - Little Tallapoosa River at St. Hwy 10 near Bowdon, Ga.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	104	158	179	144	68	29	20	15	12	12	18	48	101
5th %	166	242	245	164	105	44	37	28	20	26	34	102	143
10th %	196	251	283	240	126	59	50	37	24	32	57	113	156
15th %	237	266	306	270	167	76	60	40	34	39	65	124	168
20th %	249	313	355	310	178	95	68	46	36	41	79	134	211
30th %	293	346	397	376	229	137	81	59	53	54	120	161	264
40th %	316	420	516	405	246	162	87	66	72	82	144	206	308
Median	379	499	589	454	274	199	111	78	89	102	172	257	346
60th %	511	546	687	477	339	225	153	120	99	115	242	314	380
70th %	534	660	759	514	422	254	197	157	119	157	286	372	393
80th %	605	735	997	753	478	314	320	193	137	202	359	427	423
90th %	768	1,007	1,176	800	553	449	502	305	312	279	540	768	463
Maximum	885	1,389	1,595	1,500	1,318	753	1,109	619	1,069	784	892	1,279	603
Average	436	559	668	509	337	224	206	135	140	151	246	338	328

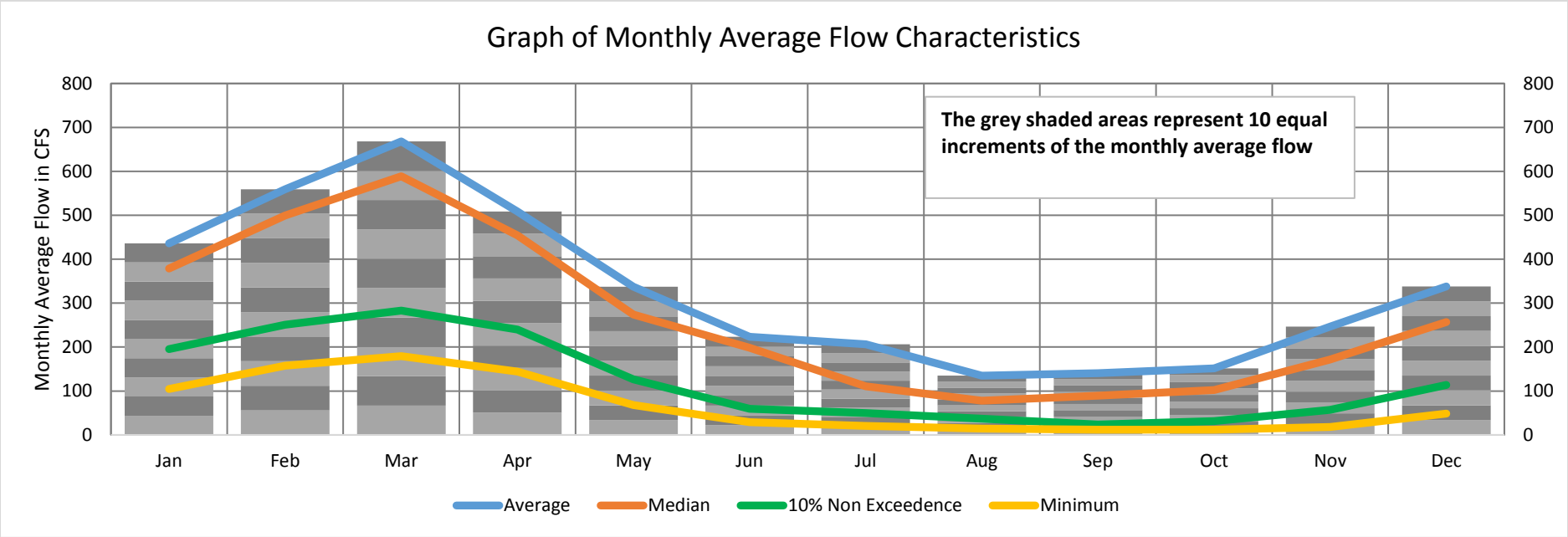
	Flows in CFS
Minimum	12.0
5th %	36
10th %	54
15th %	71
20th %	89
30th %	130
40th %	182
Median	250
60th %	315
70th %	402
80th %	523
90th %	737
Maximum	1,595
Average	329



Q10/Q50	0.22
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.05
Q5/DA	0.15
Q10/DA	0.22
Q15/DA	0.29
Q20/DA	0.36
Q30/DA	0.53
Q40/DA	0.74
Q50/DA	1.02
Q60/DA	1.29
Q70/DA	1.64
Q80/DA	2.13
Q90/DA	3.01
Qmax/DA	6.51

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

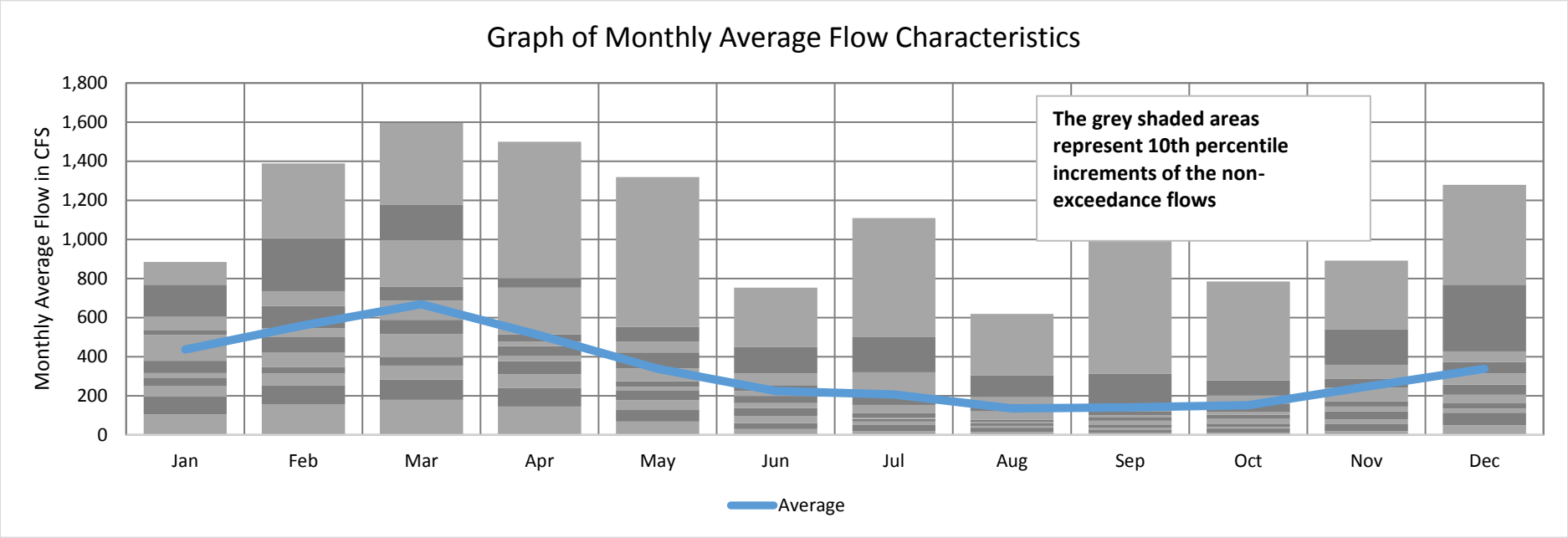
Site #: 02413210 Name: Little Tallapoosa River at St. Hwy 10 near Bowdon, Ga.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	436	559	668	509	337	224	206	135	140	151	246	338
100%	885	1,389	1,595	1,500	1,318	753	1,109	619	1,069	784	892	1,279
98%	845	1,236	1,522	1,224	785	600	809	538	622	671	812	1,081
95%	830	1,156	1,327	1,004	607	499	645	354	473	553	627	820
90%	768	1,007	1,176	800	553	449	502	305	312	279	540	768
75%	575	722	854	653	446	293	263	171	129	163	320	391
50%	379	499	589	454	274	199	111	78	89	102	172	257
25%	263	327	376	339	186	114	74	53	46	45	89	148
10%	196	251	283	240	126	59	50	37	24	32	57	113
5%	166	242	245	164	105	44	37	28	20	26	34	102
2%	114	219	210	145	93	37	27	17	16	21	26	79
0%	104	158	179	144	68	29	20	15	12	12	18	48

Site #: 02413210 Name: Little Tallapoosa River at St. Hwy 10 near Bowdon, Ga.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 245 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	436	559	668	509	337	224	206	135	140	151	246	338
100%	885	1,389	1,595	1,500	1,318	753	1,109	619	1,069	784	892	1,279
98%	845	1,236	1,522	1,224	785	600	809	538	622	671	812	1,081
95%	830	1,156	1,327	1,004	607	499	645	354	473	553	627	820
90%	768	1,007	1,176	800	553	449	502	305	312	279	540	768
75%	575	722	854	653	446	293	263	171	129	163	320	391
50%	379	499	589	454	274	199	111	78	89	102	172	257
25%	263	327	376	339	186	114	74	53	46	45	89	148
10%	196	251	283	240	126	59	50	37	24	32	57	113
5%	166	242	245	164	105	44	37	28	20	26	34	102
2%	114	219	210	145	93	37	27	17	16	21	26	79
0%	104	158	179	144	68	29	20	15	12	12	18	48

Monthly Flows (in CFS) for

02413300 - Little Tallapoosa River near Newell, Ala.

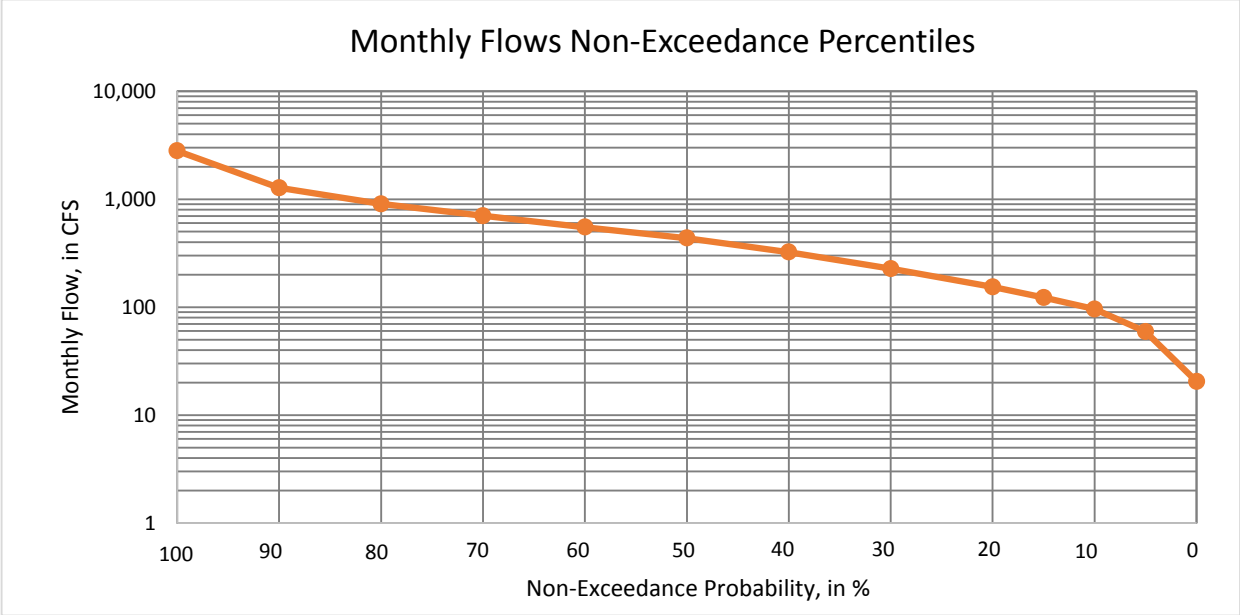
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,033	1,680	2,034	1,371	832	785	882	900	824	958	729	655	1,053
1976	1,548	769	2,634	1,125	871	540	652	208	169	221	282	645	809
1977	920	548	1,910	1,460	421	238	142	118	130	397	914	435	636
1978	1,459	575	658	701	876	547	147	333	86	68	100	227	482
1979	619	819	1,205	2,631	655	683	282	210	537	409	582	356	745
1980	902	919	2,305	1,393	1,057	432	185	123	154	298	245	234	687
1981	203	1,052	605	650	830	381	154	103	137	84	113	288	379
1982	918	2,089	690	1,367	655	548	332	274	122	278	470	1,416	754
1983	932	1,357	1,439	1,744	838	423	188	154	163	144	599	1,796	811
1984	932	938	1,062	1,185	1,031	355	497	1,081	203	167	225	430	675
1985	457	1,174	514	435	733	205	292	258	201	279	354	584	453
1986	343	421	497	287	202	139	64	65	95	98	331	442	248
1987	1,149	720	1,062	593	403	550	334	144	66	56	114	197	448
1988	511	556	311	506	221	68	119	71	159	239	268	212	268
1989	434	463	759	861	430	973	875	333	333	681	473	695	610
1990	1,328	2,435	2,799	710	463	274	142	98	60	114	143	241	725
1991	427	824	920	913	1,109	866	641	344	263	190	782	596	654
1992	994	1,262	994	721	316	335	196	273	213	207	1,381	1,391	686
1993	1,451	967	1,311	891	637	356	177	126	62	69	176	269	539
1994	417	685	886	802	384	269	1,119	528	603	427	473	577	597
1995	538	1,752	1,362	658	305	236	104	109	119	1,371	973	676	677
1996	1,430	1,855	1,967	701	406	260	143	221	225	187	315	527	680
1997	1,091	1,263	1,744	664	455	782	556	285	176	339	510	713	712
1998	1,047	2,022	2,310	1,314	759	404	254	343	126	135	156	215	749
1999	506	611	622	322	301	287	445	73	31	78	108	151	293
2000	314	460	536	826	183	87	35	49	41	40	255	193	249
2001	515	530	1,751	841	326	459	222	115	123	73	88	177	435
2002	686	427	448	428	506	132	119	57	509	463	1,081	1,337	516
2003	635	1,041	1,179	880	2,311	1,316	1,265	553	231	193	493	483	882
2004	514	944	429	730	311	330	362	170	865	271	939	867	556
2005	560	924	1,286	1,325	558	499	1,943	601	202	195	272	476	737
2006	887	1,267	910	585	440	173	132	87	155	138	548	283	462
2007	582	438	381	251	117	50	116	30	21	21	31	83	176
2008	181	614	693	476	373	87	44	71	31	38	55	442	257
2009	416	339	1,078	771	611	204	117	95	1,195	1,046	1,275	1,924	758
2010	1,281	1,447	1,527	597	882	420	238	117	40	129	208	260	591
2011	294	547	1,163	661	208	121	111	27	102	43	144	362	314
2012	743	361	900	242	255	96	51	49	54	53	52	323	266
2013	597	1,282	866	886	859	504	616	494	219	168	228	1,223	659
2014	746	780	731	1,740	551	381	177	123	60	94	314	746	534

Non-Exceedance Percentiles

02413300 - Little Tallapoosa River near Newell, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	181	339	311	242	117	50	35	27	21	21	31	83	176
5th %	289	418	427	285	201	86	50	48	31	40	54	176	249
10th %	340	437	492	417	220	95	100	56	41	52	99	197	265
15th %	417	463	533	470	294	130	115	70	59	66	112	214	289
20th %	433	544	618	569	309	166	118	72	61	72	137	233	366
30th %	513	600	720	655	380	238	142	102	99	97	199	279	459
40th %	573	749	894	701	426	281	167	118	125	137	251	360	537
Median	660	871	1,028	750	484	355	192	135	154	178	298	442	604
60th %	893	953	1,169	849	621	410	265	209	172	200	400	547	665
70th %	932	1,200	1,326	898	741	471	342	273	206	273	498	648	686
80th %	1,056	1,297	1,745	1,316	842	548	568	335	237	351	625	720	738
90th %	1,338	1,762	2,061	1,400	897	783	875	531	543	485	943	1,342	763
Maximum	1,548	2,435	2,799	2,631	2,311	1,316	1,943	1,081	1,195	1,371	1,381	1,924	1,053
Average	763	979	1,162	881	592	395	362	235	227	261	420	579	569

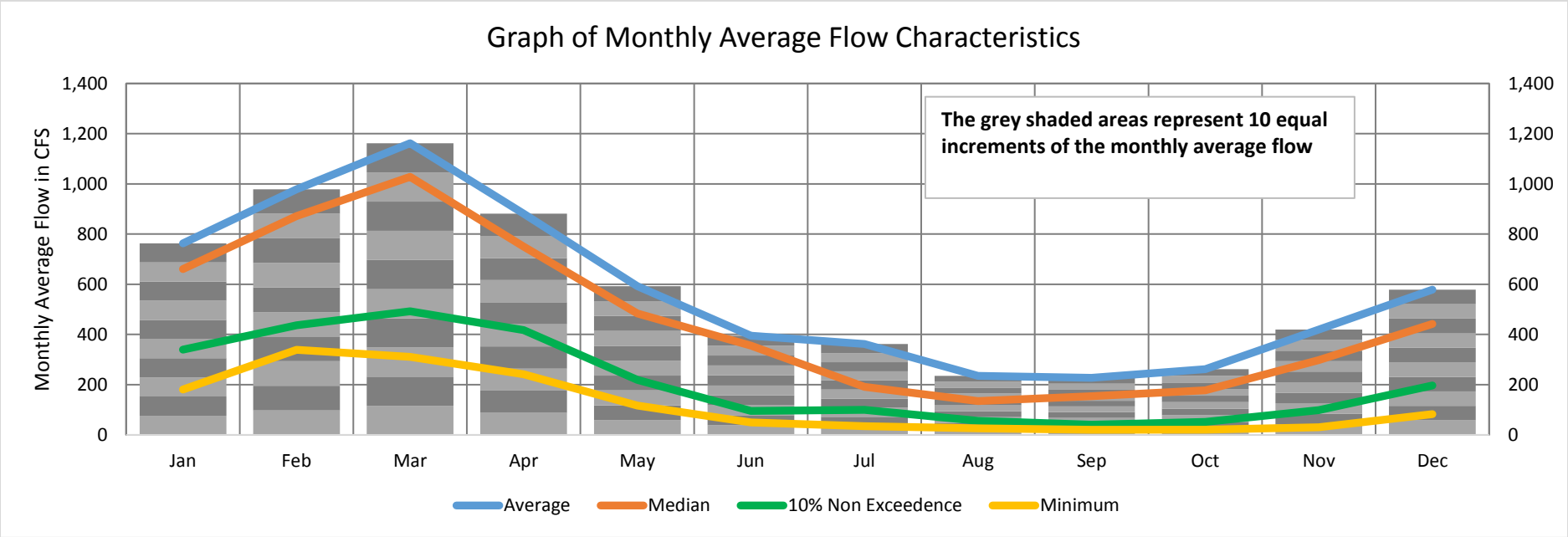
	Flows in CFS
Minimum	20.5
5th %	59
10th %	96
15th %	122
20th %	154
30th %	227
40th %	323
Median	435
60th %	550
70th %	701
80th %	903
90th %	1,276
Maximum	2,799
Average	571



Q10/Q50	0.22
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.05
Q5/DA	0.15
Q10/DA	0.24
Q15/DA	0.30
Q20/DA	0.38
Q30/DA	0.56
Q40/DA	0.80
Q50/DA	1.07
Q60/DA	1.35
Q70/DA	1.73
Q80/DA	2.22
Q90/DA	3.14
Qmax/DA	6.89

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

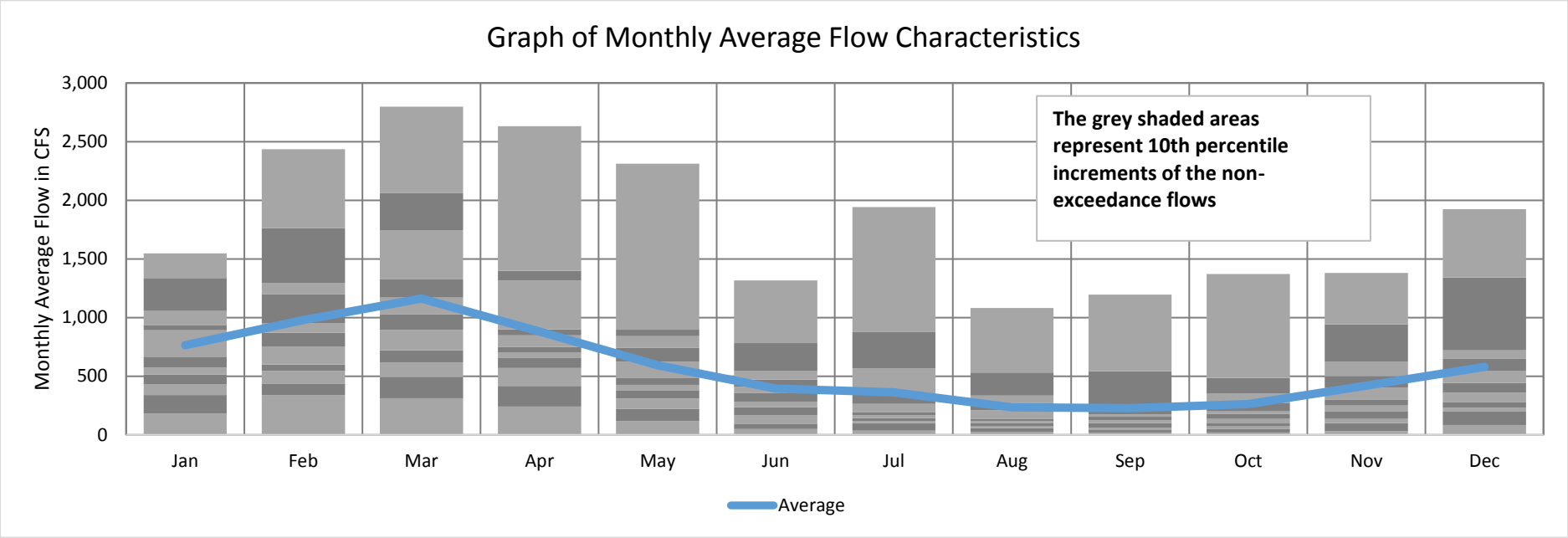
Site #: 02413300 Name: Little Tallapoosa River near Newell, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	763	979	1,162	881	592	395	362	235	227	261	420	579
100%	1,548	2,435	2,799	2,631	2,311	1,316	1,943	1,081	1,195	1,371	1,381	1,924
98%	1,479	2,165	2,670	1,939	1,373	1,048	1,414	939	937	1,118	1,298	1,824
95%	1,451	2,025	2,326	1,740	1,060	871	1,126	616	826	962	1,091	1,435
90%	1,338	1,762	2,061	1,400	897	783	875	531	543	485	943	1,342
75%	1,003	1,264	1,461	1,140	831	513	458	297	220	283	556	681
50%	660	871	1,028	750	484	355	192	135	154	178	298	442
25%	494	554	682	596	324	205	128	93	81	83	153	255
10%	340	437	492	417	220	95	100	56	41	52	99	197
5%	289	418	427	285	201	86	50	48	31	40	54	176
2%	198	356	366	249	168	64	42	29	28	34	47	136
0%	181	339	311	242	117	50	35	27	21	21	31	83

Site #: 02413300 Name: Little Tallapoosa River near Newell, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 406 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	763	979	1,162	881	592	395	362	235	227	261	420	579
100%	1,548	2,435	2,799	2,631	2,311	1,316	1,943	1,081	1,195	1,371	1,381	1,924
98%	1,479	2,165	2,670	1,939	1,373	1,048	1,414	939	937	1,118	1,298	1,824
95%	1,451	2,025	2,326	1,740	1,060	871	1,126	616	826	962	1,091	1,435
90%	1,338	1,762	2,061	1,400	897	783	875	531	543	485	943	1,342
75%	1,003	1,264	1,461	1,140	831	513	458	297	220	283	556	681
50%	660	871	1,028	750	484	355	192	135	154	178	298	442
25%	494	554	682	596	324	205	128	93	81	83	153	255
10%	340	437	492	417	220	95	100	56	41	52	99	197
5%	289	418	427	285	201	86	50	48	31	40	54	176
2%	198	356	366	249	168	64	42	29	28	34	47	136
0%	181	339	311	242	117	50	35	27	21	21	31	83

Monthly Flows (in CFS) for

02414000 - Tallapoosa River near Cragford, Ala. (represents streamflow for 03150108)

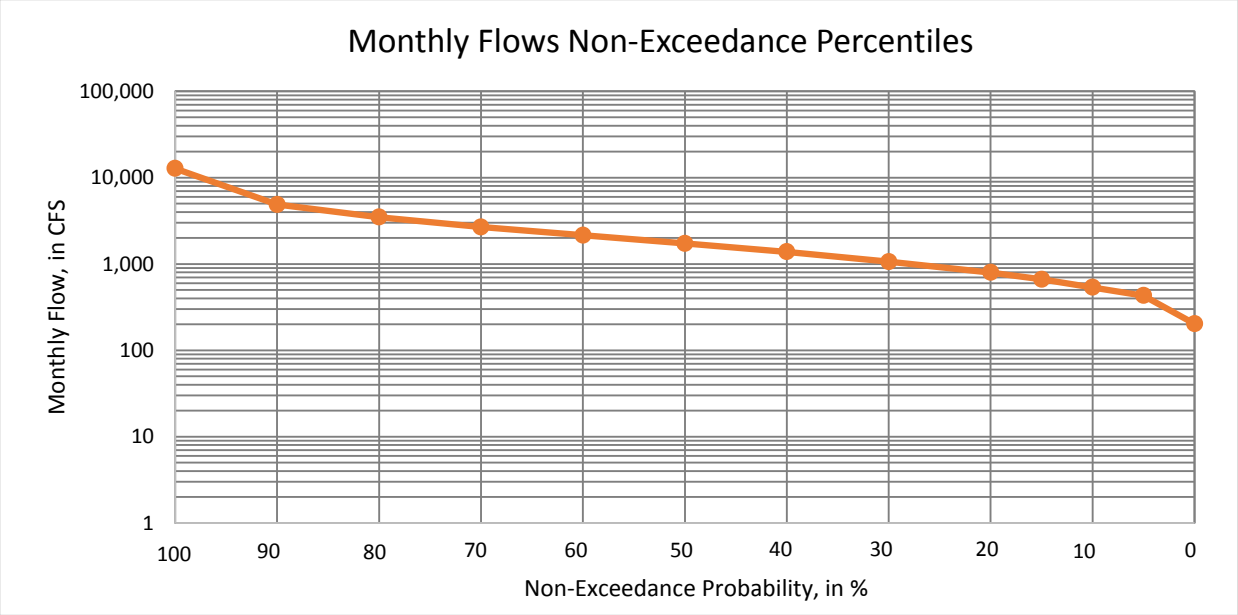
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,172	7,009	8,277	5,221	3,240	2,868	3,153	3,402	3,463	4,734	2,894	2,687	4,245
1976	6,175	3,098	9,622	5,580	3,931	2,227	2,038	1,010	832	806	1,061	2,285	3,232
1977	3,129	2,378	9,089	7,541	1,945	1,110	783	492	567	1,634	2,768	1,563	2,750
1978	4,917	2,125	2,742	2,184	4,364	2,340	891	1,050	441	308	399	923	1,894
1979	2,639	3,373	6,909	12,726	3,169	2,934	1,437	878	2,020	1,837	2,784	1,733	3,521
1980	4,069	3,385	9,192	6,498	4,573	1,913	881	526	568	1,146	861	876	2,874
1981	790	3,958	2,541	2,551	1,991	1,196	736	519	471	379	470	1,099	1,373
1982	3,654	7,971	2,684	5,846	2,707	2,259	1,438	1,024	507	1,036	287	2,185	2,594
1983	3,206	4,821	5,138	6,398	3,697	1,979	1,098	818	302	474	2,371	7,211	3,116
1984	3,729	3,458	3,647	3,105	4,438	1,260	1,423	3,768	1,215	766	953	1,540	2,442
1985	1,679	4,130	1,993	666	2,368	811	1,568	1,362	1,382	1,020	1,562	1,413	1,649
1986	1,117	1,425	1,914	510	426	491	570	593	797	245	1,173	1,583	901
1987	4,023	2,768	5,072	1,460	1,166	1,608	1,416	794	554	312	703	671	1,710
1988	2,232	2,139	1,156	556	893	721	496	627	1,234	1,160	1,619	928	1,140
1989	1,783	1,762	3,248	3,003	1,826	4,054	3,540	1,493	1,137	2,910	2,480	2,860	2,512
1990	5,296	9,407	11,454	2,169	1,886	1,147	1,163	547	319	319	911	875	2,925
1991	1,640	3,420	3,271	2,619	4,249	2,589	1,969	1,449	835	954	2,649	2,109	2,305
1992	3,436	4,943	3,926	2,115	1,284	1,758	1,041	1,522	1,317	1,276	5,414	5,517	2,780
1993	5,854	3,905	5,277	2,760	2,542	1,499	1,100	826	717	261	982	1,345	2,251
1994	1,379	3,165	3,836	2,972	1,358	1,511	3,910	2,309	1,332	1,983	2,091	2,658	2,373
1995	1,971	6,371	5,444	1,686	1,214	1,370	836	585	477	4,858	4,296	2,639	2,622
1996	4,564	7,286	7,401	2,444	1,833	1,448	947	1,152	783	1,225	1,476	2,272	2,712
1997	4,325	4,532	6,065	2,005	1,944	3,177	2,591	1,725	812	1,566	1,959	2,623	2,771
1998	4,229	7,158	8,369	4,370	2,476	1,645	1,329	1,534	812	581	1,062	1,080	2,862
1999	2,293	2,425	2,616	745	1,298	1,376	2,030	666	557	482	437	794	1,307
2000	1,292	1,403	1,544	2,913	659	731	618	537	503	430	743	819	1,011
2001	2,089	2,419	6,441	3,376	1,662	2,356	1,303	1,136	883	713	522	1,002	1,990
2002	2,722	1,854	1,592	1,295	1,775	664	783	789	1,407	2,067	3,888	5,357	2,019
2003	2,560	4,104	4,709	2,667	12,357	4,187	5,226	2,303	1,375	1,012	2,324	1,893	3,735
2004	1,964	3,620	1,704	1,328	1,372	1,385	1,529	880	2,778	1,522	3,907	3,413	2,102
2005	2,241	3,624	4,453	4,482	2,216	2,258	6,112	2,649	1,264	862	1,472	1,934	2,795
2006	3,152	4,432	3,614	1,452	1,916	830	722	819	458	890	2,278	1,159	1,795
2007	2,300	1,631	1,304	520	371	506	603	373	366	262	203	233	719
2008	301	2,263	2,141	1,468	1,586	659	601	848	664	615	445	1,921	1,120
2009	1,946	1,608	3,897	2,997	3,192	1,075	885	607	2,702	4,753	5,576	7,288	3,055
2010	5,419	5,747	6,473	1,710	3,275	1,892	1,020	584	415	873	1,126	1,026	2,449
2011	1,262	1,926	4,605	2,475	1,031	805	547	537	323	747	1,795	1,757	1,482
2012	3,563	2,044	4,458	449	454	619	431	285	268	425	740	1,894	1,305
2013	3,400	5,177	3,463	2,601	4,922	2,463	3,916	2,419	1,400	1,821	1,750	6,002	3,276
2014	3,292	3,544	3,446	5,072	2,462	2,130	1,113	751	448	857	1,602	2,713	2,275

Non-Exceedance Percentiles

02414000 - Tallapoosa River near Cragford, Ala. (represents streamflow for 03150108)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	301	1,403	1,156	449	371	491	431	285	268	245	203	233	719
5th %	1,100	1,599	1,532	520	453	613	544	487	318	262	394	787	1,005
10th %	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870	1,138
15th %	1,600	1,915	1,981	1,212	1,146	730	616	537	437	370	514	916	1,306
20th %	1,762	2,109	2,461	1,427	1,270	810	733	576	456	429	732	987	1,460
30th %	2,054	2,407	3,096	1,703	1,522	1,136	868	621	506	605	941	1,141	1,864
40th %	2,297	3,138	3,554	2,178	1,830	1,373	991	792	568	790	1,100	1,554	2,191
Median	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825	2,408
60th %	3,335	3,737	4,647	2,821	2,406	1,812	1,364	1,016	833	1,026	1,768	2,004	2,605
70th %	3,677	4,220	5,327	3,034	2,846	2,159	1,466	1,215	1,220	1,240	2,292	2,387	2,774
80th %	4,183	4,990	6,560	4,600	3,359	2,343	2,031	1,524	1,340	1,671	2,673	2,692	2,884
90th %	4,955	7,024	8,441	5,901	4,371	2,875	3,577	2,320	1,468	2,151	3,890	5,373	3,236
Maximum	6,175	9,407	11,454	12,726	12,357	4,187	6,112	3,768	3,463	4,858	5,576	7,288	4,245
Average	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247	2,300

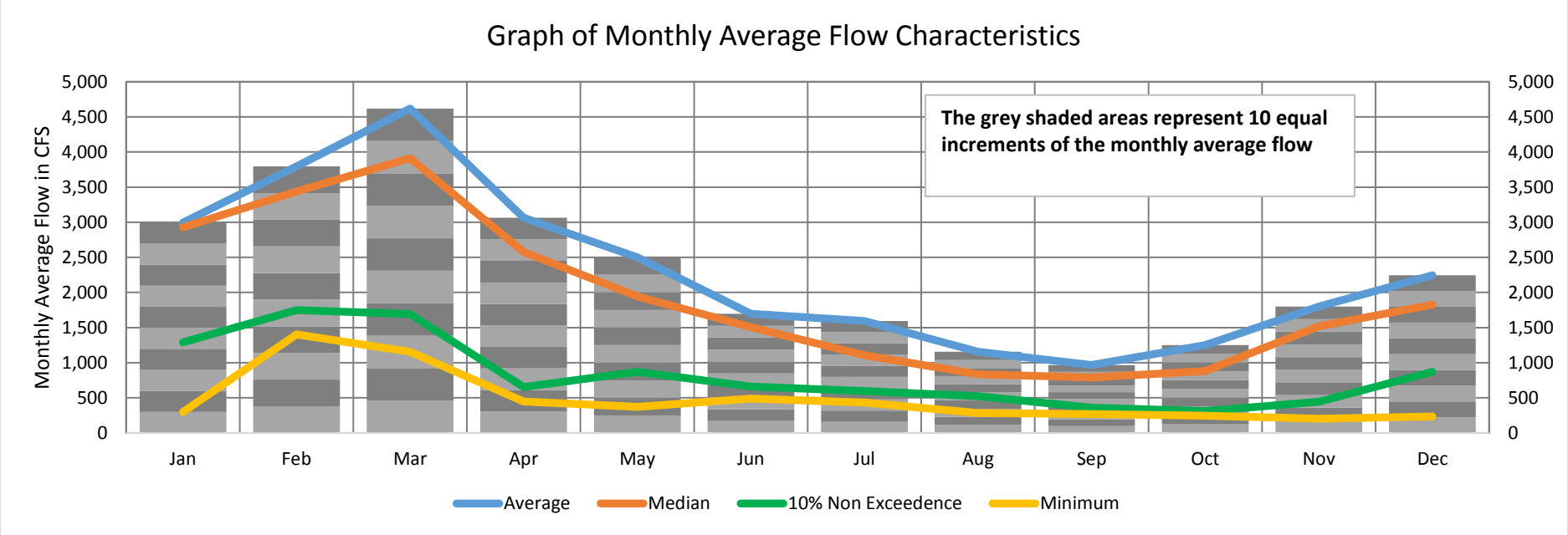
	Flows in CFS
Minimum	202.8
5th %	431
10th %	536
15th %	664
20th %	796
30th %	1,061
40th %	1,381
Median	1,729
60th %	2,152
70th %	2,672
80th %	3,479
90th %	4,864
Maximum	12,726
Average	2,307



Q10/Q50	0.31
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.14
Q5/DA	0.30
Q10/DA	0.37
Q15/DA	0.46
Q20/DA	0.55
Q30/DA	0.73
Q40/DA	0.95
Q50/DA	1.19
Q60/DA	1.48
Q70/DA	1.84
Q80/DA	2.39
Q90/DA	3.35
Qmax/DA	8.75

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

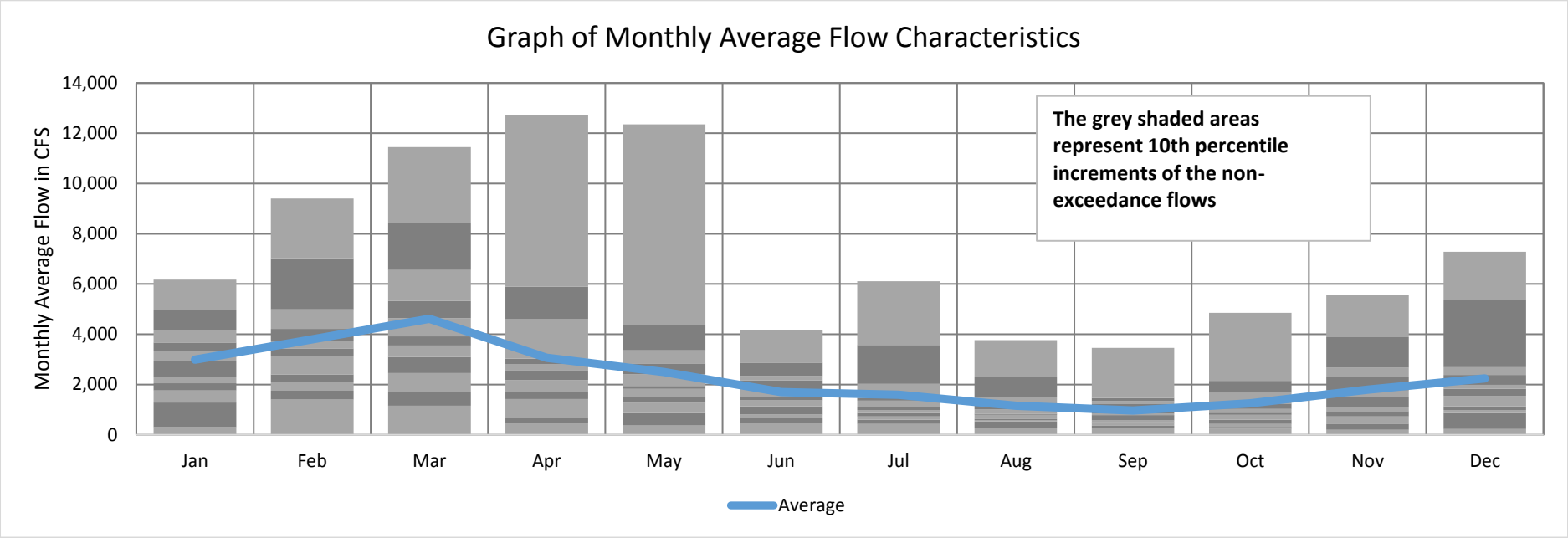
Site #: 02414000 Name: Tallapoosa River near Cragford, Ala. (represents streamflow for 03150108)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247
100%	6,175	9,407	11,454	12,726	12,357	4,187	6,112	3,768	3,463	4,858	5,576	7,288
98%	5,924	8,287	10,025	8,682	6,557	4,083	5,421	3,483	2,929	4,776	5,450	7,228
95%	5,441	7,320	9,214	6,550	4,591	3,221	3,982	2,687	2,706	4,735	4,352	6,063
90%	4,955	7,024	8,441	5,901	4,371	2,875	3,577	2,320	1,468	2,151	3,890	5,373
75%	4,035	4,604	6,159	3,624	3,204	2,258	1,668	1,460	1,277	1,533	2,398	2,643
50%	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825
25%	1,959	2,232	2,667	1,466	1,343	1,014	783	591	475	480	832	1,066
10%	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870
5%	1,100	1,599	1,532	520	453	613	544	487	318	262	394	787
2%	683	1,421	1,272	497	414	503	482	354	295	258	268	575
0%	301	1,403	1,156	449	371	491	431	285	268	245	203	233

Site #: 02414000 Name: Tallapoosa River near Cragford, Ala. (represents streamflow for 03150108)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,454 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,995	3,795	4,618	3,063	2,502	1,696	1,595	1,155	968	1,253	1,801	2,247
100%	6,175	9,407	11,454	12,726	12,357	4,187	6,112	3,768	3,463	4,858	5,576	7,288
98%	5,924	8,287	10,025	8,682	6,557	4,083	5,421	3,483	2,929	4,776	5,450	7,228
95%	5,441	7,320	9,214	6,550	4,591	3,221	3,982	2,687	2,706	4,735	4,352	6,063
90%	4,955	7,024	8,441	5,901	4,371	2,875	3,577	2,320	1,468	2,151	3,890	5,373
75%	4,035	4,604	6,159	3,624	3,204	2,258	1,668	1,460	1,277	1,533	2,398	2,643
50%	2,925	3,439	3,912	2,576	1,944	1,505	1,107	837	790	881	1,519	1,825
25%	1,959	2,232	2,667	1,466	1,343	1,014	783	591	475	480	832	1,066
10%	1,289	1,749	1,693	655	870	663	598	525	362	312	444	870
5%	1,100	1,599	1,532	520	453	613	544	487	318	262	394	787
2%	683	1,421	1,272	497	414	503	482	354	295	258	268	575
0%	301	1,403	1,156	449	371	491	431	285	268	245	203	233

Monthly Flows (in CFS) for
02414500 - Tallapoosa River at Wadley, Ala.

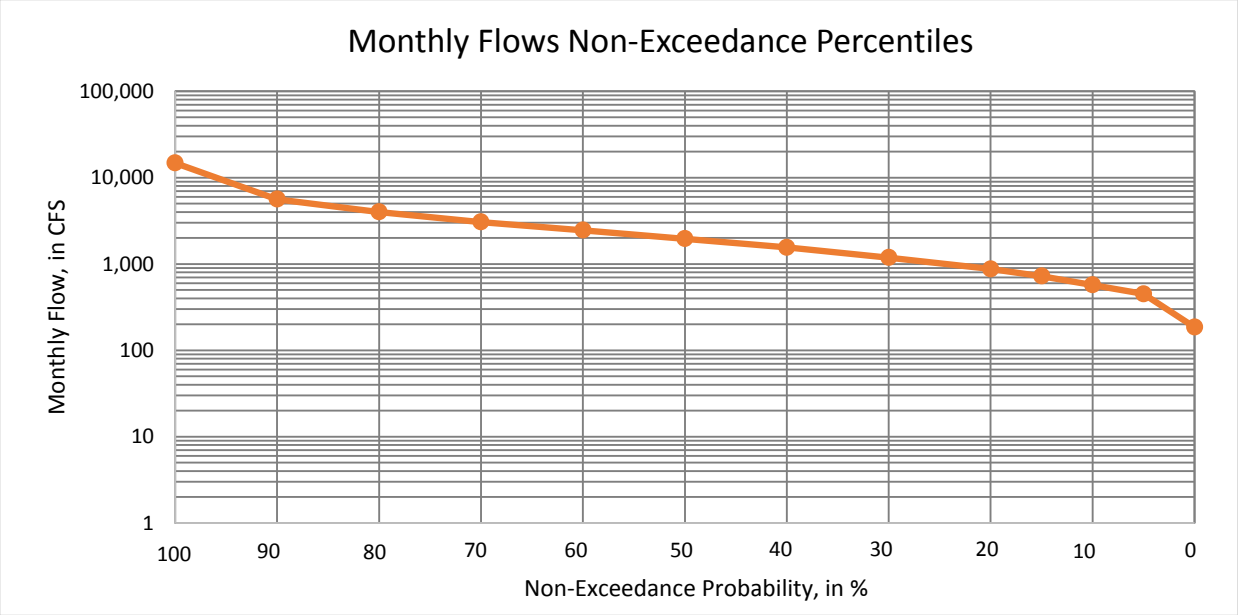
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,801	8,101	9,576	6,021	3,717	3,285	3,616	3,906	3,977	5,455	3,315	3,074	4,886
1976	7,131	3,552	11,140	6,439	4,521	2,539	2,319	1,124	916	887	1,183	2,607	3,708
1977	3,588	2,715	10,520	8,720	2,211	1,240	860	522	609	1,849	3,168	1,767	3,148
1978	5,668	2,421	3,138	2,489	5,024	2,671	985	1,170	462	307	414	1,023	2,152
1979	3,018	3,872	7,985	14,750	3,635	3,362	1,620	971	2,298	2,086	3,187	1,965	4,044
1980	4,682	3,886	10,640	7,506	5,268	2,174	974	561	610	1,282	951	968	3,292
1981	868	4,552	2,905	2,916	2,265	1,340	805	553	498	390	496	1,227	1,546
1982	4,199	9,219	3,071	6,748	3,098	2,576	1,622	1,140	539	1,154	283	2,490	2,966
1983	3,678	5,556	5,925	7,390	4,249	2,251	1,226	900	301	500	2,707	8,336	3,573
1984	4,286	3,971	4,191	3,560	5,111	1,415	1,604	4,331	1,362	840	1,058	1,740	2,790
1985	1,902	4,752	2,267	723	2,703	892	1,773	1,533	1,556	1,135	1,766	1,593	1,867
1986	1,248	1,607	2,175	542	444	521	612	639	876	234	1,313	1,790	997
1987	4,628	3,169	5,848	1,647	1,305	1,819	1,596	872	594	313	767	730	1,939
1988	2,545	2,437	1,294	595	988	788	527	678	1,384	1,298	1,832	1,029	1,275
1989	2,023	1,999	3,727	3,442	2,073	4,664	4,066	1,686	1,271	3,334	2,833	3,276	2,871
1990	6,109	10,890	13,270	2,472	2,143	1,283	1,302	586	320	321	1,009	967	3,351
1991	1,856	3,927	3,753	2,995	4,891	2,960	2,239	1,634	920	1,059	3,030	2,402	2,630
1992	3,945	5,698	4,515	2,409	1,443	1,994	1,160	1,719	1,481	1,433	6,246	6,366	3,182
1993	6,757	4,491	6,086	3,159	2,906	1,693	1,229	910	783	253	1,091	1,514	2,567
1994	1,553	3,630	4,410	3,406	1,529	1,707	4,497	2,635	1,498	2,256	2,381	3,040	2,709
1995	2,241	7,359	6,281	1,910	1,361	1,542	922	629	504	5,599	4,946	3,018	2,999
1996	5,257	8,423	8,557	2,792	2,081	1,633	1,051	1,289	860	1,374	1,666	2,592	3,103
1997	4,979	5,220	7,003	2,281	2,210	3,644	2,963	1,955	894	1,771	2,227	3,000	3,172
1998	4,868	8,274	9,682	5,031	2,829	1,862	1,495	1,733	893	625	1,184	1,205	3,278
1999	2,616	2,770	2,992	816	1,459	1,549	2,310	724	597	510	458	872	1,469
2000	1,452	1,581	1,745	3,337	716	800	668	573	534	450	813	902	1,125
2001	2,379	2,763	7,440	3,875	1,882	2,689	1,465	1,270	976	778	556	1,114	2,264
2002	3,115	2,106	1,801	1,455	2,013	721	860	866	1,585	2,353	4,471	6,179	2,298
2003	2,926	4,722	5,426	3,051	14,320	4,819	6,027	2,628	1,548	1,126	2,652	2,151	4,293
2004	2,233	4,159	1,931	1,494	1,545	1,560	1,728	972	3,180	1,719	4,493	3,919	2,394
2005	2,555	4,164	5,128	5,162	2,526	2,575	7,058	3,030	1,419	952	1,661	2,198	3,200
2006	3,615	5,104	4,152	1,638	2,177	915	789	902	482	984	2,599	1,297	2,036
2007	2,624	1,846	1,466	555	381	538	651	383	375	255	185	220	785
2008	299	2,581	2,439	1,656	1,794	715	649	936	721	665	466	2,183	1,252
2009	2,213	1,819	4,482	3,435	3,661	1,199	979	655	3,092	5,477	6,434	8,425	3,502
2010	6,252	6,633	7,477	1,938	3,758	2,150	1,136	628	432	965	1,259	1,142	2,798
2011	1,417	2,189	5,305	2,828	1,148	886	585	574	325	818	2,037	1,993	1,673
2012	4,093	2,326	5,134	471	478	669	450	281	261	443	810	2,152	1,467
2013	3,903	5,970	3,977	2,974	5,673	2,814	4,504	2,762	1,578	2,067	1,984	6,930	3,759
2014	3,778	4,071	3,957	5,848	2,813	2,426	1,244	823	470	946	1,812	3,105	2,595

Non-Exceedance Percentiles

02414500 - Tallapoosa River at Wadley, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	299	1,581	1,294	471	381	521	450	281	261	234	185	220	785
5th %	1,229	1,808	1,731	554	476	662	582	515	319	254	407	865	1,118
10th %	1,449	1,984	1,918	711	961	720	645	560	370	312	465	961	1,273
15th %	1,811	2,177	2,253	1,359	1,281	798	665	574	457	379	547	1,015	1,469
20th %	1,999	2,402	2,812	1,609	1,427	891	802	619	479	448	801	1,097	1,648
30th %	2,338	2,749	3,550	1,930	1,719	1,270	958	671	538	653	1,043	1,276	2,118
40th %	2,621	3,599	4,082	2,482	2,078	1,546	1,102	870	610	868	1,229	1,756	2,498
Median	3,352	3,949	4,499	2,945	2,211	1,700	1,237	923	868	974	1,716	2,072	2,750
60th %	3,828	4,295	5,353	3,230	2,747	2,056	1,535	1,130	918	1,143	2,005	2,280	2,979
70th %	4,225	4,858	6,145	3,477	3,259	2,460	1,654	1,362	1,369	1,392	2,615	2,725	3,175
80th %	4,814	5,752	7,579	5,299	3,856	2,675	2,312	1,722	1,508	1,893	3,058	3,080	3,304
90th %	5,712	8,118	9,766	6,812	5,033	3,293	4,109	2,648	1,656	2,451	4,473	6,198	3,713
Maximum	7,131	10,890	13,270	14,750	14,320	4,819	7,058	4,331	3,977	5,599	6,434	8,425	4,886
Average	3,433	4,363	5,320	3,512	2,859	1,922	1,804	1,292	1,074	1,407	2,044	2,563	2,624

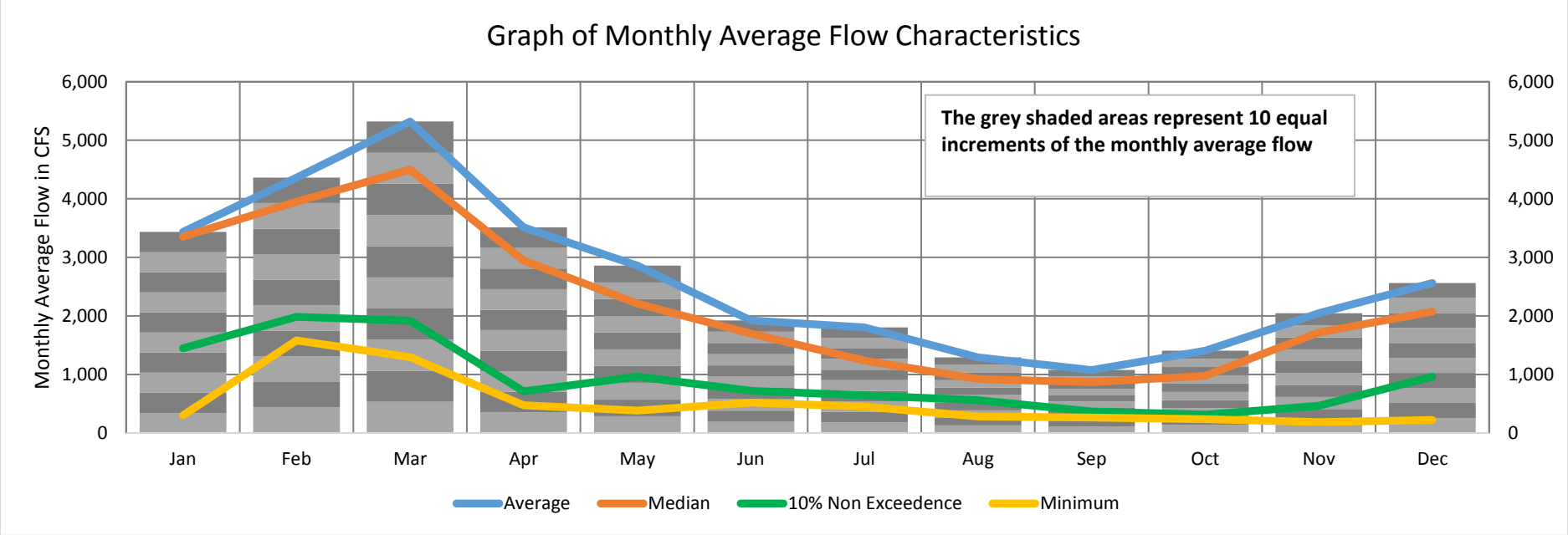
	Flows in CFS
Minimum	185.1
5th %	450
10th %	572
15th %	721
20th %	875
30th %	1,184
40th %	1,555
Median	1,960
60th %	2,452
70th %	3,057
80th %	3,995
90th %	5,606
Maximum	14,750
Average	2,633



Q10/Q50	0.29
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.11
Q5/DA	0.27
Q10/DA	0.34
Q15/DA	0.43
Q20/DA	0.52
Q30/DA	0.71
Q40/DA	0.93
Q50/DA	1.17
Q60/DA	1.46
Q70/DA	1.83
Q80/DA	2.38
Q90/DA	3.35
Qmax/DA	8.81

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

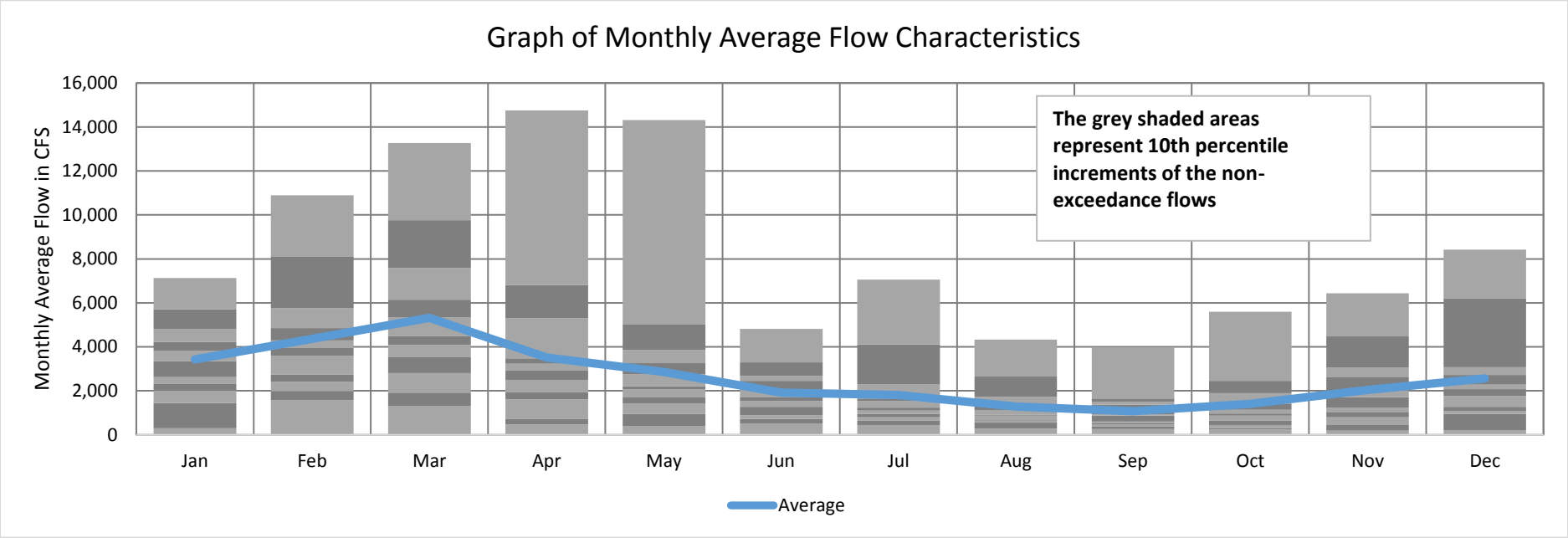
Site #: 02414500 Name: Tallapoosa River at Wadley, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,433	4,363	5,320	3,512	2,859	1,922	1,804	1,292	1,074	1,407	2,044	2,563
100%	7,131	10,890	13,270	14,750	14,320	4,819	7,058	4,331	3,977	5,599	6,434	8,425
98%	6,839	9,587	11,609	10,047	7,575	4,698	6,254	4,000	3,355	5,504	6,287	8,356
95%	6,277	8,463	10,665	7,567	5,288	3,695	4,580	3,074	3,096	5,456	5,011	7,000
90%	5,712	8,118	9,766	6,812	5,033	3,293	4,109	2,648	1,656	2,451	4,473	6,198
75%	4,642	5,304	7,112	4,164	3,675	2,575	1,890	1,647	1,435	1,732	2,739	3,024
50%	3,352	3,949	4,499	2,945	2,211	1,700	1,237	923	868	974	1,716	2,072
25%	2,228	2,545	3,051	1,654	1,512	1,128	860	636	502	508	916	1,189
10%	1,449	1,984	1,918	711	961	720	645	560	370	312	465	961
5%	1,229	1,808	1,731	554	476	662	582	515	319	254	407	865
2%	743	1,601	1,428	527	430	534	510	361	292	249	261	617
0%	299	1,581	1,294	471	381	521	450	281	261	234	185	220

Site #: 02414500 Name: Tallapoosa River at Wadley, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,675 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,433	4,363	5,320	3,512	2,859	1,922	1,804	1,292	1,074	1,407	2,044	2,563
100%	7,131	10,890	13,270	14,750	14,320	4,819	7,058	4,331	3,977	5,599	6,434	8,425
98%	6,839	9,587	11,609	10,047	7,575	4,698	6,254	4,000	3,355	5,504	6,287	8,356
95%	6,277	8,463	10,665	7,567	5,288	3,695	4,580	3,074	3,096	5,456	5,011	7,000
90%	5,712	8,118	9,766	6,812	5,033	3,293	4,109	2,648	1,656	2,451	4,473	6,198
75%	4,642	5,304	7,112	4,164	3,675	2,575	1,890	1,647	1,435	1,732	2,739	3,024
50%	3,352	3,949	4,499	2,945	2,211	1,700	1,237	923	868	974	1,716	2,072
25%	2,228	2,545	3,051	1,654	1,512	1,128	860	636	502	508	916	1,189
10%	1,449	1,984	1,918	711	961	720	645	560	370	312	465	961
5%	1,229	1,808	1,731	554	476	662	582	515	319	254	407	865
2%	743	1,601	1,428	527	430	534	510	361	292	249	261	617
0%	299	1,581	1,294	471	381	521	450	281	261	234	185	220

Monthly Flows (in CFS) for

02414715 - Tallapoosa River near New Site, Ala.

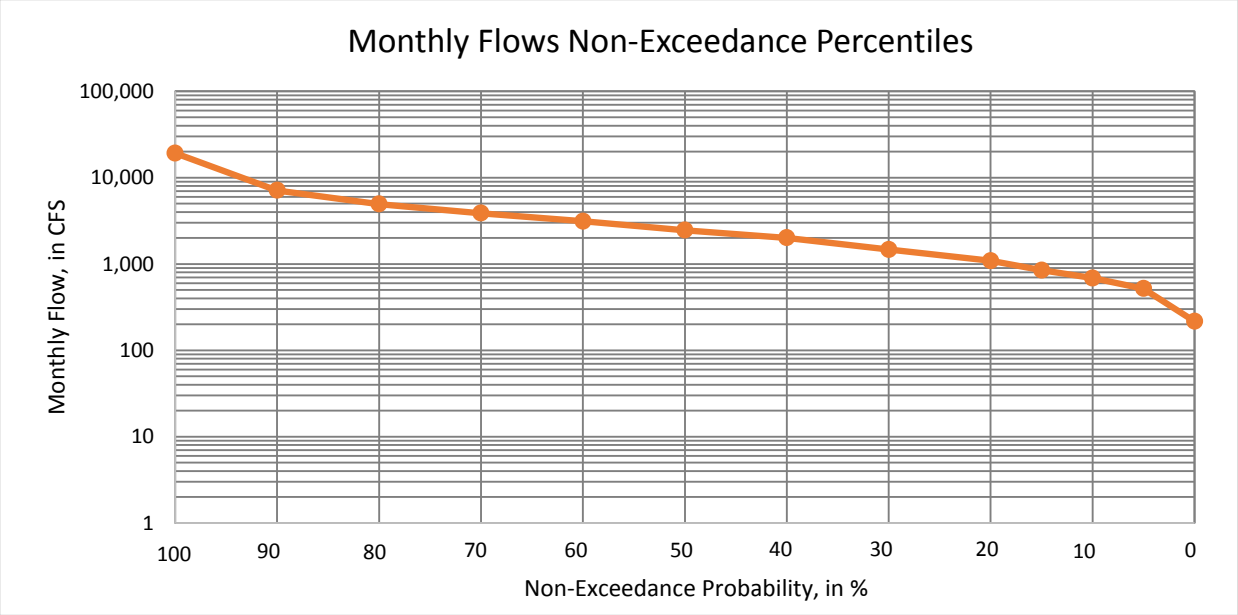
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	6,106	10,415	12,353	7,694	4,703	4,146	4,572	4,947	5,039	6,956	4,184	3,874	6,226
1976	9,144	4,490	14,415	8,239	5,743	3,187	2,906	1,388	1,127	1,090	1,462	3,275	4,720
1977	4,536	3,413	13,597	11,227	2,768	1,534	1,056	634	742	2,306	3,995	2,202	4,002
1978	7,234	3,036	3,957	3,123	6,396	3,357	1,213	1,446	560	370	501	1,261	2,711
1979	3,802	4,903	10,262	19,197	4,597	4,245	2,015	1,195	2,879	2,608	4,020	2,454	5,157
1980	5,952	4,921	13,755	9,635	6,713	2,721	1,199	682	744	1,587	1,170	1,191	4,190
1981	1,066	5,783	3,657	3,671	2,837	1,660	987	673	604	471	602	1,518	1,933
1982	5,326	11,883	3,870	8,643	3,905	3,235	2,018	1,408	656	1,425	339	3,125	3,760
1983	4,652	7,088	7,568	9,483	5,391	2,819	1,516	1,106	361	607	3,403	10,723	4,545
1984	5,439	5,031	5,316	4,500	6,509	1,755	1,995	5,497	1,688	1,031	1,305	2,167	3,520
1985	2,374	6,043	2,839	885	3,398	1,097	2,209	1,905	1,934	1,402	2,201	2,263	2,358
1986	1,757	2,270	3,095	800	763	689	842	797	1,104	379	1,542	2,402	1,366
1987	5,156	4,040	6,784	2,494	1,823	2,214	2,167	1,160	742	325	928	1,011	2,399
1988	3,160	3,007	1,785	1,084	1,240	940	848	843	2,448	1,640	2,417	1,493	1,732
1989	2,725	2,613	4,648	4,606	2,550	6,704	5,114	2,281	1,798	3,735	3,316	4,590	3,728
1990	7,859	12,880	16,230	3,551	2,773	1,638	1,462	815	413	430	1,216	1,294	4,170
1991	2,444	4,517	4,483	3,632	5,774	3,555	2,870	2,158	1,244	1,377	3,668	3,118	3,228
1992	5,064	6,758	5,455	3,431	2,088	2,617	1,714	2,663	1,991	2,034	7,601	7,959	4,095
1993	7,755	5,716	7,494	4,688	3,819	2,231	1,615	1,233	1,045	379	1,515	2,234	3,301
1994	2,269	4,603	5,784	4,728	2,203	2,324	5,517	3,561	2,442	2,937	3,248	4,146	3,644
1995	3,445	8,529	7,641	2,579	1,705	1,662	1,022	731	562	7,270	6,705	5,031	3,880
1996	8,191	10,320	10,490	3,958	2,784	2,165	1,254	1,618	1,126	1,780	2,233	3,335	4,072
1997	6,280	6,266	8,709	3,644	3,141	4,527	3,798	2,585	1,575	2,440	3,417	4,726	4,253
1998	6,827	10,810	12,920	7,210	3,987	2,736	1,914	2,161	1,267	923	1,604	1,740	4,471
1999	3,338	3,645	3,935	1,702	2,096	2,208	3,008	925	700	707	677	1,406	2,023
2000	2,291	2,426	2,570	4,272	1,128	1,003	870	727	659	606	1,305	1,458	1,601
2001	3,152	3,832	9,648	5,809	2,765	3,985	2,014	1,586	1,165	803	638	1,344	3,057
2002	3,385	2,562	2,336	1,892	2,194	836	854	848	1,374	2,232	4,448	6,516	2,459
2003	3,120	5,272	6,744	4,601	16,870	6,527	8,338	3,400	1,904	1,439	3,079	2,673	5,345
2004	2,778	4,936	2,455	1,901	1,894	1,799	2,103	1,156	3,636	2,066	5,098	4,879	2,873
2005	3,321	4,966	6,843	7,205	3,476	3,396	8,755	3,886	2,003	1,404	1,989	2,753	4,166
2006	4,235	5,869	5,046	2,534	2,709	1,165	948	1,093	660	1,087	3,075	1,680	2,488
2007	3,309	2,440	2,012	1,051	549	546	600	428	378	266	216	350	1,005
2008	551	3,125	2,920	1,966	2,030	780	687	1,151	758	804	657	2,890	1,519
2009	3,047	2,397	6,205	4,637	4,702	1,854	1,322	958	3,539	6,712	8,295	10,810	4,557
2010	7,980	8,478	9,971	3,140	4,694	2,896	1,463	824	517	948	1,205	1,278	3,595
2011	1,526	2,636	6,287	3,280	1,282	740	550	426	273	513	1,473	1,779	1,726
2012	3,719	2,323	4,589	904	631	640	410	256	227	343	669	1,921	1,387
2013	3,230	7,124	4,509	3,479	6,556	2,641	4,705	2,469	1,138	1,627	2,263	7,162	3,899
2014	3,589	3,900	4,206	7,308	2,955	2,245	962	506	267	808	1,657	3,122	2,614

Non-Exceedance Percentiles

02414715 - Tallapoosa River near New Site, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	551	2,270	1,785	800	549	546	410	256	227	266	216	350	1,005
5th %	1,503	2,393	2,320	903	757	686	598	428	272	342	492	1,182	1,386
10th %	2,218	2,439	2,559	1,081	1,229	776	826	622	376	378	634	1,276	1,592
15th %	2,361	2,605	2,908	1,864	1,642	924	853	681	502	422	667	1,337	1,731
20th %	2,669	2,933	3,545	1,953	1,880	1,078	932	730	562	505	878	1,448	2,005
30th %	3,142	3,575	4,131	2,960	2,165	1,654	1,045	837	659	774	1,278	1,722	2,479
40th %	3,316	4,310	4,624	3,460	2,743	1,832	1,295	1,039	743	938	1,498	2,188	2,983
Median	3,517	4,912	5,620	3,658	2,810	2,223	1,566	1,158	1,115	1,233	1,823	2,428	3,557
60th %	4,356	5,127	6,760	4,541	3,429	2,627	2,002	1,396	1,197	1,431	2,325	2,981	3,808
70th %	5,207	5,921	7,590	4,700	4,170	2,842	2,122	1,704	1,609	1,682	3,268	3,293	4,079
80th %	6,141	7,095	10,029	7,230	4,840	3,364	2,926	2,319	1,945	2,247	3,733	4,617	4,203
90th %	7,765	10,329	12,988	8,727	6,407	4,156	4,746	3,416	2,491	3,017	4,513	6,581	4,573
Maximum	9,144	12,880	16,230	19,197	16,870	6,704	8,755	5,497	5,039	7,270	8,295	10,810	6,226
Average	4,278	5,382	6,685	4,710	3,604	2,425	2,235	1,603	1,332	1,697	2,483	3,229	3,294

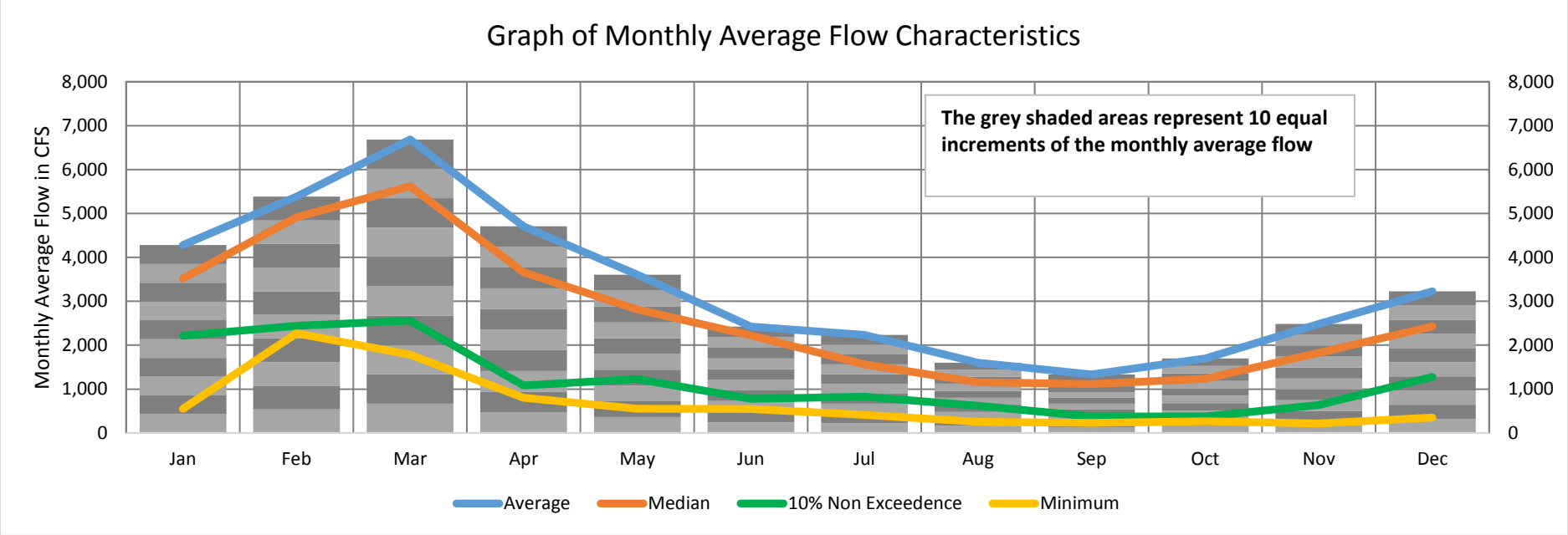
	Flows in CFS
Minimum	216.4
5th %	517
10th %	686
15th %	848
20th %	1,089
30th %	1,470
40th %	2,008
Median	2,454
60th %	3,124
70th %	3,871
80th %	4,938
90th %	7,091
Maximum	19,197
Average	3,305



Q10/Q50	0.28
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.11
Q5/DA	0.25
Q10/DA	0.33
Q15/DA	0.41
Q20/DA	0.53
Q30/DA	0.71
Q40/DA	0.98
Q50/DA	1.19
Q60/DA	1.52
Q70/DA	1.88
Q80/DA	2.40
Q90/DA	3.45
Qmax/DA	9.33

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

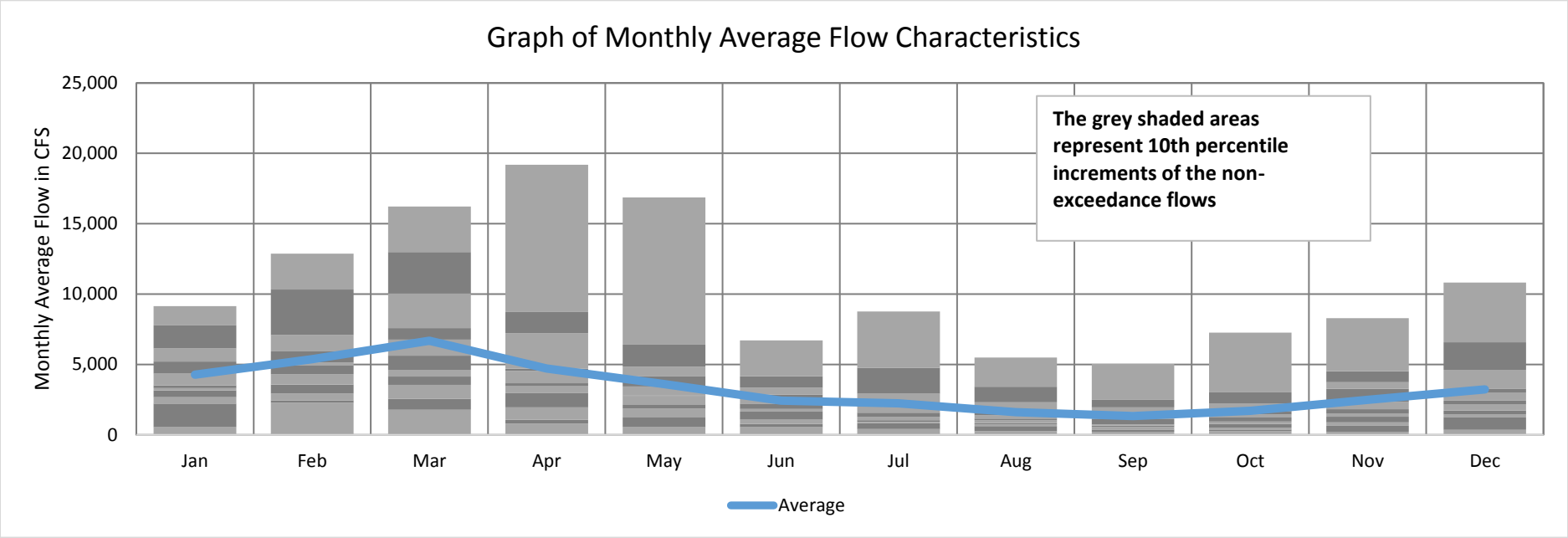
Site #: 02414715 Name: Tallapoosa River near New Site, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,278	5,382	6,685	4,710	3,604	2,425	2,235	1,603	1,332	1,697	2,483	3,229
100%	9,144	12,880	16,230	19,197	16,870	6,704	8,755	5,497	5,039	7,270	8,295	10,810
98%	8,401	12,103	14,815	12,981	8,948	6,566	8,430	5,068	3,945	7,025	7,754	10,742
95%	7,991	10,864	13,788	9,714	6,564	4,627	5,658	3,939	3,544	6,724	6,750	8,097
90%	7,765	10,329	12,988	8,727	6,407	4,156	4,746	3,416	2,491	3,017	4,513	6,581
75%	5,567	6,389	8,944	6,158	4,696	3,199	2,375	2,159	1,825	2,042	3,406	3,942
50%	3,517	4,912	5,620	3,658	2,810	2,223	1,566	1,158	1,115	1,233	1,823	2,428
25%	2,980	3,103	3,919	2,524	2,074	1,442	981	811	643	607	1,196	1,511
10%	2,218	2,439	2,559	1,081	1,229	776	826	622	376	378	634	1,276
5%	1,503	2,393	2,320	903	757	686	598	428	272	342	492	1,182
2%	953	2,311	1,962	866	613	619	519	389	258	312	312	865
0%	551	2,270	1,785	800	549	546	410	256	227	266	216	350

Site #: 02414715 Name: Tallapoosa River near New Site, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,058 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,278	5,382	6,685	4,710	3,604	2,425	2,235	1,603	1,332	1,697	2,483	3,229
100%	9,144	12,880	16,230	19,197	16,870	6,704	8,755	5,497	5,039	7,270	8,295	10,810
98%	8,401	12,103	14,815	12,981	8,948	6,566	8,430	5,068	3,945	7,025	7,754	10,742
95%	7,991	10,864	13,788	9,714	6,564	4,627	5,658	3,939	3,544	6,724	6,750	8,097
90%	7,765	10,329	12,988	8,727	6,407	4,156	4,746	3,416	2,491	3,017	4,513	6,581
75%	5,567	6,389	8,944	6,158	4,696	3,199	2,375	2,159	1,825	2,042	3,406	3,942
50%	3,517	4,912	5,620	3,658	2,810	2,223	1,566	1,158	1,115	1,233	1,823	2,428
25%	2,980	3,103	3,919	2,524	2,074	1,442	981	811	643	607	1,196	1,511
10%	2,218	2,439	2,559	1,081	1,229	776	826	622	376	378	634	1,276
5%	1,503	2,393	2,320	903	757	686	598	428	272	342	492	1,182
2%	953	2,311	1,962	866	613	619	519	389	258	312	312	865
0%	551	2,270	1,785	800	549	546	410	256	227	266	216	350

Monthly Flows (in CFS) for

02415000 - Hillabee Creek near Hackneyville, Ala.

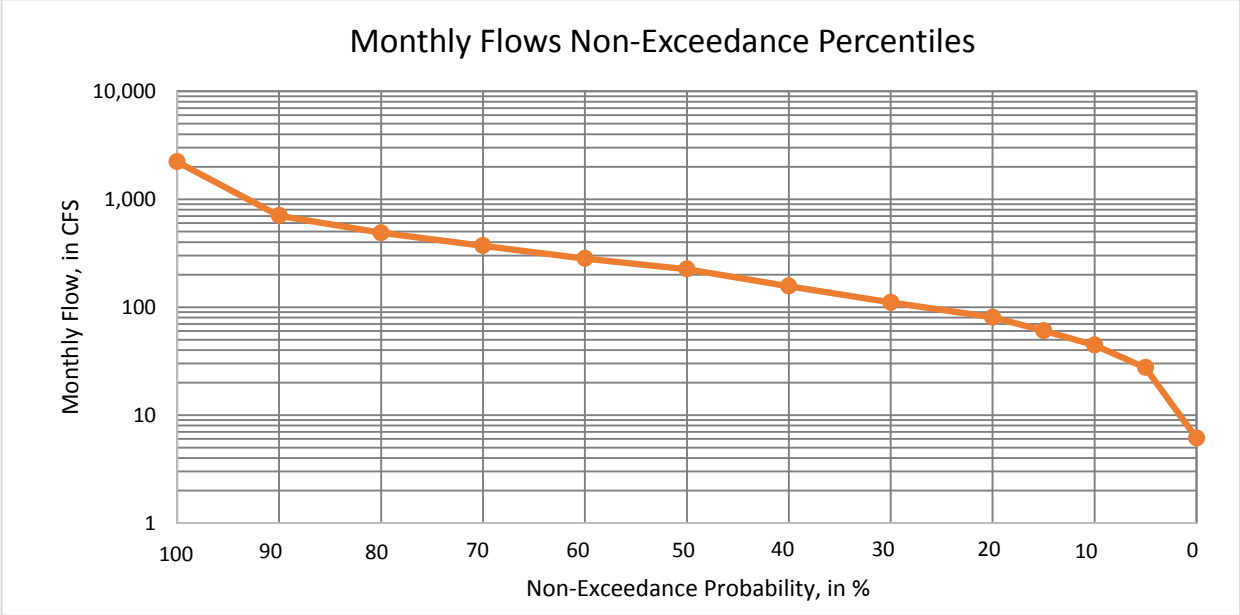
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	560	845	873	882	344	227	440	393	319	484	327	322	499
1976	1,236	393	1,084	552	668	260	136	84	82	52	99	240	409
1977	369	270	1,038	539	170	88	64	49	100	170	241	190	274
1978	613	280	349	273	483	166	82	82	36	25	35	89	210
1979	355	399	1,032	2,216	402	367	159	91	237	212	345	198	499
1980	542	435	1,471	957	624	222	91	51	55	104	92	102	396
1981	84	657	406	506	122	80	47	56	37	27	37	134	179
1982	564	1,294	439	849	292	224	240	157	53	83	160	673	413
1983	428	782	977	1,424	476	278	123	90	122	105	455	1,327	547
1984	553	450	526	504	415	150	324	524	91	86	105	223	330
1985	191	587	228	203	237	78	112	103	61	72	91	208	178
1986	117	178	313	125	129	77	44	62	137	50	389	347	164
1987	637	712	749	390	317	190	146	61	27	21	49	107	282
1988	332	406	176	247	124	39	102	30	720	160	225	154	224
1989	281	277	660	631	275	655	592	195	242	309	261	476	405
1990	874	1,551	1,689	443	250	123	77	32	15	26	46	81	428
1991	225	338	417	406	518	246	229	148	91	54	144	214	252
1992	421	674	481	447	246	193	120	262	103	93	830	942	399
1993	832	558	671	422	366	176	78	102	45	40	131	166	298
1994	170	442	643	838	276	246	324	204	139	137	199	424	336
1995	304	881	896	339	169	103	58	22	44	574	518	463	361
1996	861	1,033	994	477	332	245	127	82	156	124	157	354	408
1997	546	788	755	461	284	573	315	154	133	112	188	374	387
1998	613	1,155	1,182	610	244	140	129	81	42	40	63	86	360
1999	350	318	328	251	141	161	201	62	34	47	54	63	167
2000	196	179	258	336	82	43	15	13	18	13	229	111	123
2001	312	364	1,054	773	239	367	122	73	70	43	58	117	299
2002	279	235	253	172	124	84	140	29	70	81	329	600	200
2003	303	553	652	486	1,468	702	666	328	144	95	241	202	487
2004	240	498	249	216	184	152	104	78	347	135	444	434	254
2005	284	540	770	777	297	275	678	329	120	88	108	155	367
2006	320	388	372	243	219	73	33	38	86	83	343	143	193
2007	348	241	171	139	49	20	20	6	9	9	22	68	91
2008	96	377	268	220	190	59	54	184	50	77	57	382	167
2009	360	292	719	427	400	154	84	78	508	521	704	1,070	444
2010	762	807	1,038	316	473	164	61	37	17	40	75	113	323
2011	122	241	655	339	103	42	70	14	20	13	89	158	155
2012	423	258	535	204	160	59	18	32	23	28	21	250	168
2013	460	780	428	427	410	264	567	279	121	90	118	752	390
2014	458	517	587	957	339	251	131	55	34	53	81	289	311

Non-Exceedance Percentiles

02415000 - Hillabee Creek near Hackneyville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	84	178	171	125	49	20	15	6	9	9	21	63	91
5th %	116	232	225	170	102	42	20	14	17	13	34	80	153
10th %	165	241	252	204	124	57	43	28	20	24	45	89	166
15th %	195	269	267	219	128	71	53	31	26	27	53	106	168
20th %	237	279	325	246	156	78	60	36	34	37	58	113	179
30th %	297	356	414	330	188	98	78	53	43	46	86	151	220
40th %	327	396	508	400	242	151	98	62	54	53	103	180	279
Median	357	446	648	435	276	165	121	79	76	82	138	211	317
60th %	425	545	690	480	305	205	129	86	95	89	193	265	361
70th %	543	662	801	543	351	245	150	117	121	104	241	360	392
80th %	574	783	1,001	774	411	261	255	186	140	135	332	440	409
90th %	769	897	1,057	890	487	367	453	283	249	222	445	681	448
Maximum	1,236	1,551	1,689	2,216	1,468	702	678	524	720	574	830	1,327	547
Average	425	549	660	526	316	200	178	119	119	114	204	320	309

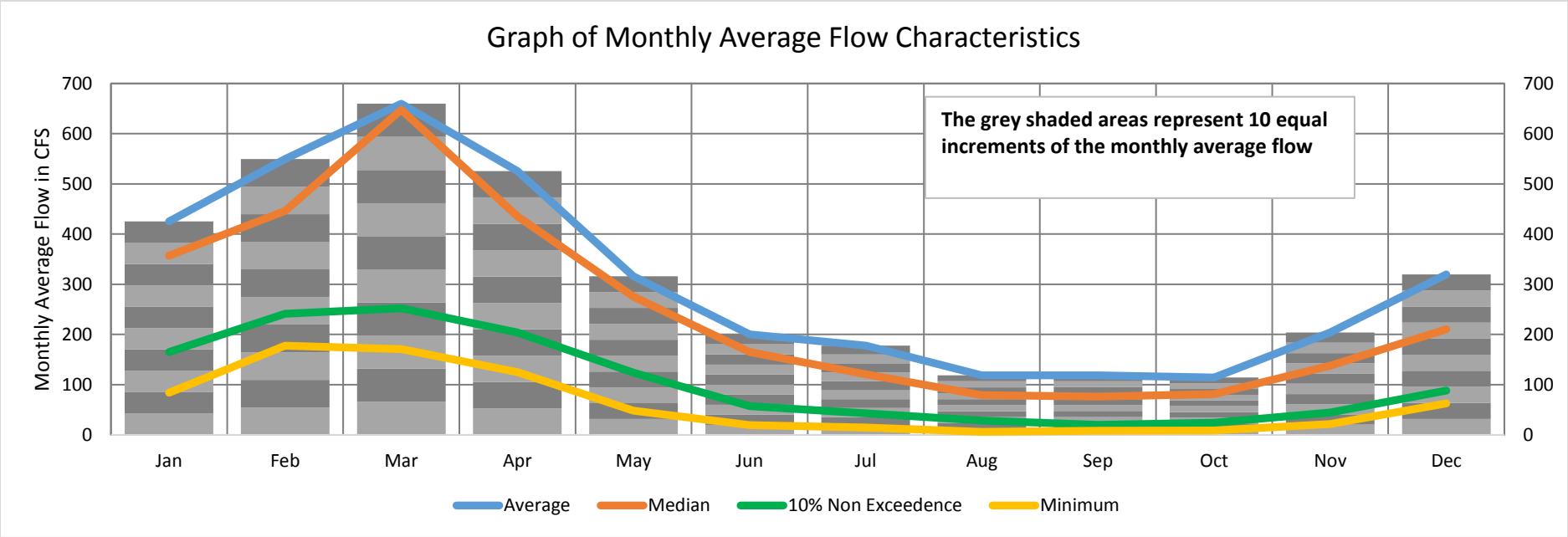
	Flows in CFS
Minimum	6.1
5th %	27
10th %	44
15th %	60
20th %	80
30th %	110
40th %	156
Median	225
60th %	282
70th %	370
80th %	488
90th %	704
Maximum	2,216
Average	311



Q10/Q50	0.20
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.03
Q5/DA	0.14
Q10/DA	0.23
Q15/DA	0.32
Q20/DA	0.42
Q30/DA	0.58
Q40/DA	0.82
Q50/DA	1.18
Q60/DA	1.48
Q70/DA	1.95
Q80/DA	2.57
Q90/DA	3.71
Qmax/DA	11.66

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

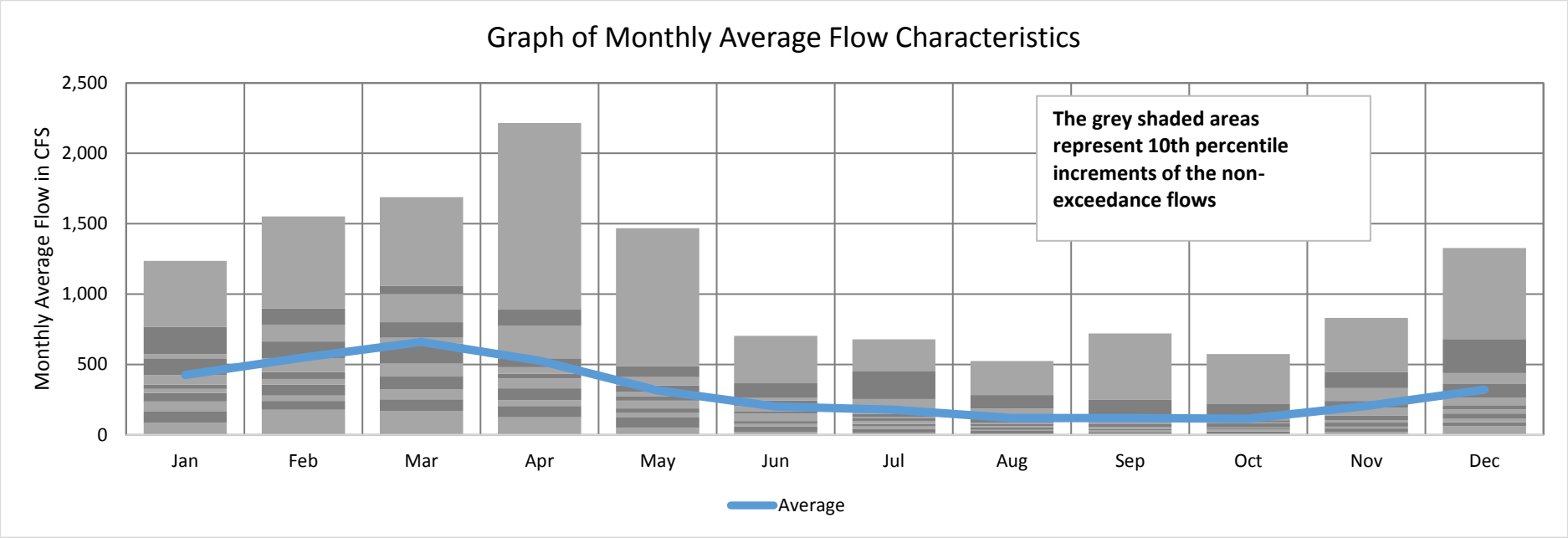
Site #: 02415000 Name: Hillabee Creek near Hackneyville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	425	549	660	526	316	200	178	119	119	114	204	320
100%	1,236	1,551	1,689	2,216	1,468	702	678	524	720	574	830	1,327
98%	954	1,351	1,519	1,598	844	665	669	422	554	532	731	1,127
95%	861	1,162	1,196	980	626	577	596	333	355	486	527	949
90%	769	897	1,057	890	487	367	453	283	249	222	445	681
75%	555	729	917	615	400	247	208	155	134	115	278	393
50%	357	446	648	435	276	165	121	79	76	82	138	211
25%	281	311	366	267	170	83	68	46	37	40	72	130
10%	165	241	252	204	124	57	43	28	20	24	45	89
5%	116	232	225	170	102	42	20	14	17	13	34	80
2%	94	178	175	136	75	34	17	11	14	12	22	67
0%	84	178	171	125	49	20	15	6.1	8.5	8.8	21	63

Site #: 02415000 Name: Hillabee Creek near Hackneyville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 190 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	425	549	660	526	316	200	178	119	119	114	204	320
100%	1,236	1,551	1,689	2,216	1,468	702	678	524	720	574	830	1,327
98%	954	1,351	1,519	1,598	844	665	669	422	554	532	731	1,127
95%	861	1,162	1,196	980	626	577	596	333	355	486	527	949
90%	769	897	1,057	890	487	367	453	283	249	222	445	681
75%	555	729	917	615	400	247	208	155	134	115	278	393
50%	357	446	648	435	276	165	121	79	76	82	138	211
25%	281	311	366	267	170	83	68	46	37	40	72	130
10%	165	241	252	204	124	57	43	28	20	24	45	89
5%	116	232	225	170	102	42	20	14	17	13	34	80
2%	94	178	175	136	75	34	17	11	14	12	22	67
0%	84	178	171	125	49	20	15	6.1	8.5	8.8	21	63

Monthly Flows (in CFS) for

02417500 - Lake Martin near Tallassee, Ala. (represents Streamflow for 03150109)

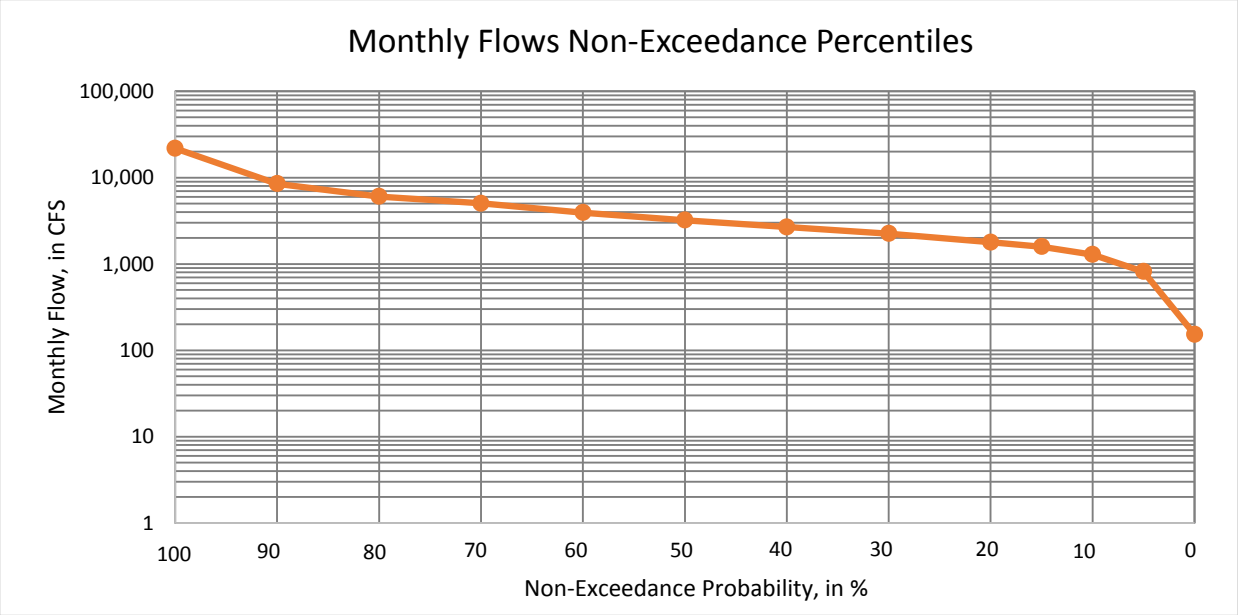
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,722	9,013	14,380	13,823	6,094	5,130	6,945	6,682	5,629	8,897	7,103	6,470	8,238
1976	8,221	8,372	10,228	9,560	6,694	4,237	3,695	2,574	3,244	1,492	3,227	5,450	5,566
1977	6,394	2,892	8,978	12,275	2,362	3,452	1,500	2,486	1,443	2,836	4,803	4,363	4,484
1978	5,994	7,815	5,183	564	5,613	3,862	1,994	2,283	2,010	1,180	1,954	2,792	3,416
1979	5,042	5,493	8,816	21,562	5,157	4,347	3,261	2,985	3,262	4,098	5,429	4,057	6,103
1980	5,975	6,448	11,730	11,961	8,097	3,299	2,936	1,625	1,282	1,914	3,291	3,674	5,178
1981	2,400	5,967	1,932	4,179	2,140	2,424	1,730	1,604	1,043	1,045	1,585	3,468	2,433
1982	6,653	10,765	5,220	6,866	4,476	3,195	2,862	2,878	1,212	2,294	2,408	8,674	4,758
1983	8,092	8,258	7,452	13,351	6,048	4,073	3,201	2,656	1,773	1,534	5,423	12,076	6,144
1984	9,698	8,620	5,734	3,893	6,361	2,180	2,505	9,065	2,823	1,570	3,808	4,799	5,080
1985	3,241	6,766	1,938	415	2,205	1,280	2,402	3,342	2,155	2,985	3,825	3,991	2,857
1986	1,782	2,151	416	819	1,630	1,386	2,217	1,642	860	589	2,790	5,192	1,790
1987	4,448	7,629	6,440	2,138	2,688	2,876	2,530	2,133	1,883	1,466	2,325	2,329	3,215
1988	4,292	4,617	234	153	228	2,359	620	871	2,963	3,268	5,030	3,160	2,294
1989	3,754	1,648	3,343	5,955	2,954	12,464	7,778	3,115	3,720	5,714	5,870	7,387	5,320
1990	7,226	17,251	21,818	4,511	3,706	1,801	1,957	1,933	1,352	1,138	2,321	2,999	5,607
1991	3,407	4,350	2,401	3,989	7,340	4,171	3,921	2,752	2,556	2,173	5,123	5,776	3,994
1992	6,079	6,513	5,839	2,847	2,184	3,440	2,199	3,422	3,097	3,001	8,391	11,262	4,847
1993	9,961	9,215	5,627	5,758	4,483	2,317	2,324	1,829	2,136	2,799	2,342	4,051	4,378
1994	2,796	4,598	4,364	5,388	2,639	2,824	6,418	4,971	2,851	4,138	5,030	6,487	4,377
1995	3,822	7,351	8,697	1,910	2,317	1,855	1,966	1,759	1,432	8,646	8,522	6,470	4,552
1996	5,273	13,103	11,604	4,612	2,710	2,641	1,825	2,646	2,355	3,424	3,801	5,728	4,928
1997	8,018	7,677	9,140	2,520	3,689	6,031	4,243	2,932	2,112	2,888	3,714	7,295	5,016
1998	9,607	10,577	14,773	7,696	3,770	3,117	2,294	3,385	2,552	1,716	3,323	3,397	5,490
1999	3,952	3,919	1,253	1,334	1,397	2,903	4,218	2,406	2,066	1,663	2,552	2,493	2,505
2000	2,642	1,785	816	2,350	1,451	1,680	1,833	1,746	1,589	1,593	1,317	1,994	1,733
2001	4,357	2,443	11,489	6,962	3,022	5,436	2,553	2,627	2,539	1,999	2,361	3,033	4,079
2002	4,426	3,262	1,021	535	1,757	1,353	1,535	1,883	2,086	2,953	7,391	8,490	3,058
2003	5,008	5,411	6,059	5,674	18,179	8,835	12,200	4,730	3,119	2,588	5,782	4,472	6,861
2004	3,417	5,344	944	395	1,678	2,184	2,354	2,056	5,356	3,175	7,505	7,770	3,496
2005	3,813	4,445	5,161	9,077	4,241	4,157	9,941	5,144	2,817	4,311	3,994	4,577	5,147
2006	5,632	4,921	3,128	1,894	3,152	1,212	1,430	1,613	2,160	1,637	4,863	3,355	2,904
2007	4,131	2,451	337	330	851	2,258	1,563	604	988	1,801	434	316	1,333
2008	252	184	710	2,540	2,537	1,660	1,367	800	1,861	2,183	2,783	5,259	1,854
2009	3,848	930	6,057	5,275	5,685	2,079	1,678	2,113	5,942	10,369	11,805	13,055	5,770
2010	11,688	11,723	9,613	2,785	5,250	3,039	1,320	1,445	1,685	1,616	3,421	2,641	4,649
2011	1,806	1,765	5,420	3,121	1,294	1,077	1,083	902	815	1,008	3,329	2,489	2,010
2012	5,669	3,617	3,105	666	893	1,480	805	727	781	1,327	2,887	4,635	2,213
2013	4,020	8,343	4,128	3,863	6,796	3,414	6,682	3,670	2,752	2,590	3,198	7,754	4,754
2014	8,054	5,811	4,875	11,803	5,139	3,887	1,954	1,210	1,204	2,211	3,489	4,601	4,503

Non-Exceedance Percentiles

02417500 - Lake Martin near Tallassee, Ala. (represents Streamflow for 03150109)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	252	184	234	153	228	1,077	620	604	781	589	434	316	1,333
5th %	1,805	1,612	412	391	891	1,276	1,069	797	858	1,043	1,572	2,313	1,787
10th %	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493	1,995
15th %	3,174	2,399	1,009	651	1,603	1,633	1,489	1,410	1,211	1,445	2,339	2,769	2,282
20th %	3,415	2,803	1,796	1,231	1,741	1,776	1,557	1,612	1,338	1,526	2,399	3,026	2,490
30th %	3,840	4,221	3,121	2,286	2,283	2,183	1,831	1,755	1,656	1,631	2,858	3,446	3,168
40th %	4,227	4,799	4,671	2,822	2,668	2,398	1,983	2,007	1,959	1,869	3,310	4,055	4,045
Median	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589	4,493
60th %	5,647	6,614	5,927	4,877	3,958	3,236	2,515	2,634	2,428	2,674	3,892	5,219	4,756
70th %	6,174	7,718	7,826	5,817	5,144	3,575	3,016	2,894	2,772	2,962	5,030	5,984	5,035
80th %	8,025	8,421	9,234	7,972	5,758	4,160	3,980	3,351	2,989	3,299	5,500	7,313	5,354
90th %	8,810	10,596	11,617	11,993	6,704	5,161	6,709	4,754	3,308	4,452	7,402	8,509	5,803
Maximum	11,688	17,251	21,818	21,562	18,179	12,464	12,200	9,065	5,942	10,369	11,805	13,055	8,238
Average	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207	4,173

	Flows in CFS
Minimum	153.0
5th %	816
10th %	1,282
15th %	1,583
20th %	1,780
30th %	2,246
40th %	2,675
Median	3,214
60th %	3,933
70th %	5,030
80th %	6,050
90th %	8,494
Maximum	21,818
Average	4,184

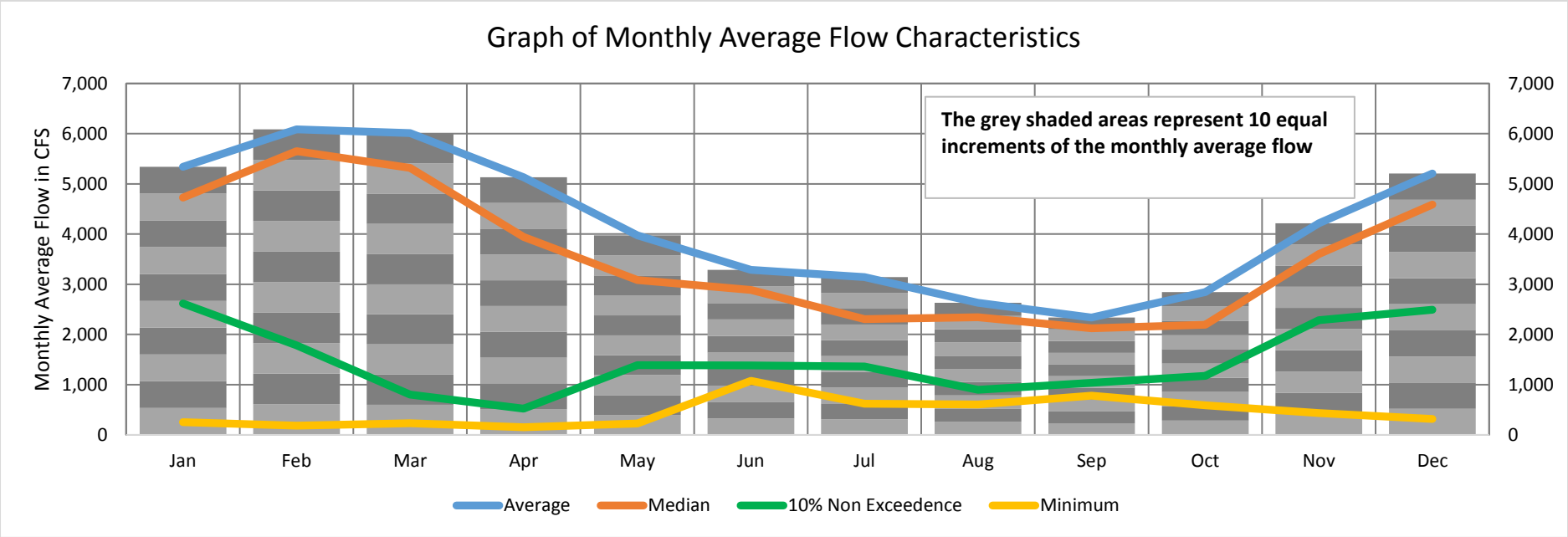


Q10/Q50	0.40
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.05
Q5/DA	0.27
Q10/DA	0.43
Q15/DA	0.53
Q20/DA	0.60
Q30/DA	0.75
Q40/DA	0.90
Q50/DA	1.08
Q60/DA	1.32
Q70/DA	1.69
Q80/DA	2.03
Q90/DA	2.85
Qmax/DA	7.31

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 02417500 Name: Lake Martin near Tallassee, Ala. (represents Streamflow for 03150109)

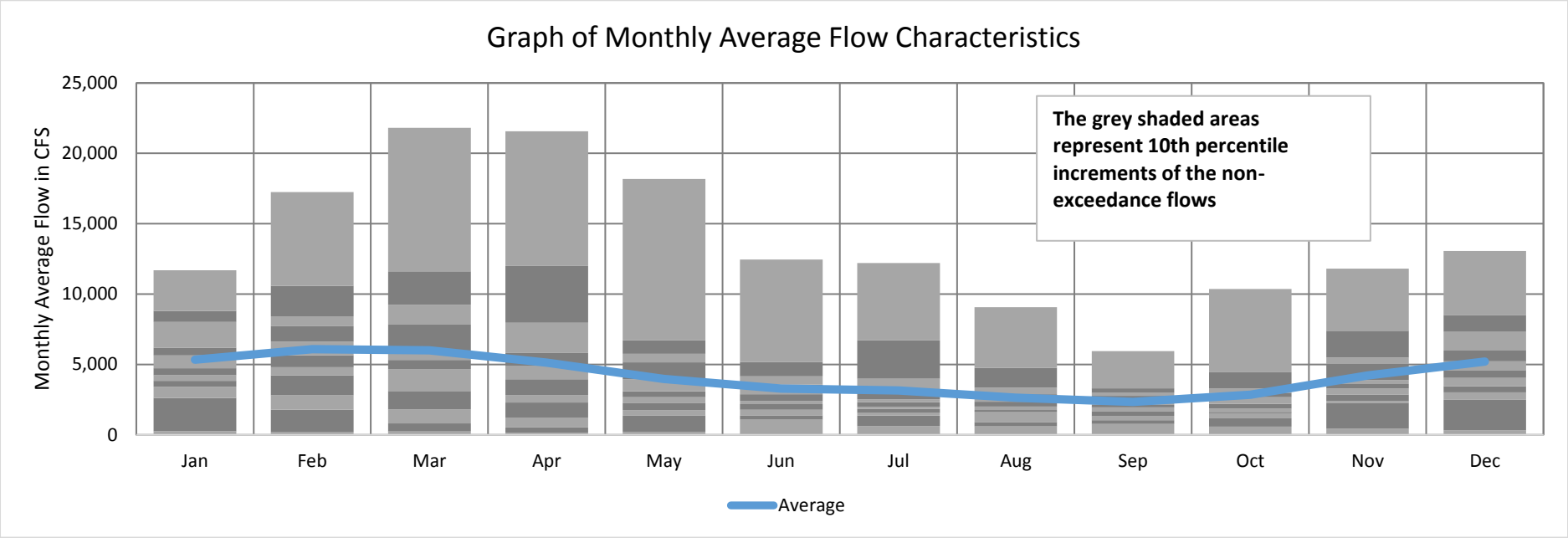
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207
100%	11,688	17,251	21,818	21,562	18,179	12,464	12,200	9,065	5,942	10,369	11,805	13,055
98%	10,341	14,016	16,323	15,526	10,315	9,633	10,438	7,207	5,698	9,221	9,245	12,291
95%	9,711	11,792	14,400	13,374	7,378	6,172	7,886	5,221	5,370	8,659	8,398	11,303
90%	8,810	10,596	11,617	11,993	6,704	5,161	6,709	4,754	3,308	4,452	7,402	8,509
75%	6,796	8,279	8,856	6,890	5,340	3,933	3,369	3,017	2,830	3,044	5,198	6,474
50%	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589
25%	3,798	3,528	2,285	1,906	2,173	2,023	1,717	1,638	1,440	1,587	2,726	3,307
10%	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493
5%	1,805	1,612	412	391	891	1,276	1,069	797	858	1,043	1,572	2,313
2%	1,445	766	314	291	714	1,182	764	700	807	916	1,123	1,625
0%	252	184	234	153	228	1,077	620	604	781	589	434	316

Site #: 02417500 Name: Lake Martin near Tallassee, Ala. (represents Streamflow for 03150109)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,984 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,340	6,086	6,010	5,134	3,973	3,285	3,146	2,631	2,338	2,846	4,214	5,207
100%	11,688	17,251	21,818	21,562	18,179	12,464	12,200	9,065	5,942	10,369	11,805	13,055
98%	10,341	14,016	16,323	15,526	10,315	9,633	10,438	7,207	5,698	9,221	9,245	12,291
95%	9,711	11,792	14,400	13,374	7,378	6,172	7,886	5,221	5,370	8,659	8,398	11,303
90%	8,810	10,596	11,617	11,993	6,704	5,161	6,709	4,754	3,308	4,452	7,402	8,509
75%	6,796	8,279	8,856	6,890	5,340	3,933	3,369	3,017	2,830	3,044	5,198	6,474
50%	4,728	5,652	5,320	3,941	3,087	2,890	2,309	2,344	2,124	2,197	3,601	4,589
25%	3,798	3,528	2,285	1,906	2,173	2,023	1,717	1,638	1,440	1,587	2,726	3,307
10%	2,618	1,783	805	523	1,387	1,383	1,362	899	1,038	1,176	2,284	2,493
5%	1,805	1,612	412	391	891	1,276	1,069	797	858	1,043	1,572	2,313
2%	1,445	766	314	291	714	1,182	764	700	807	916	1,123	1,625
0%	252	184	234	153	228	1,077	620	604	781	589	434	316

Monthly Flows (in CFS) for

02418230 - Sougahatchee Creek near Loachapoka, Ala.

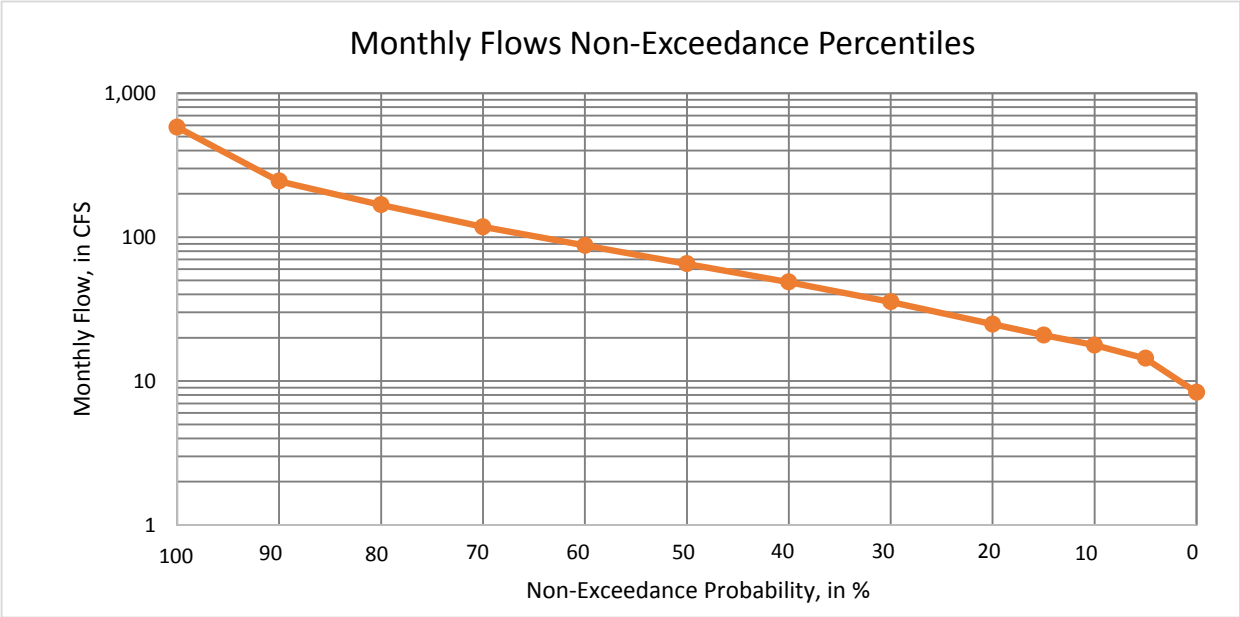
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	248	324	347	309	101	82	126	147	87	270	121	136	191
1976	191	151	238	195	190	75	77	36	27	36	116	205	128
1977	205	121	296	200	47	23	34	55	40	37	85	89	103
1978	324	148	192	138	257	81	37	49	15	11	19	43	110
1979	131	319	276	343	129	51	58	26	37	27	45	64	124
1980	112	172	370	254	197	62	32	14	15	22	29	34	109
1981	32	180	115	265	59	27	19	26	18	13	17	52	67
1982	129	269	128	227	105	31	41	48	19	23	68	233	109
1983	214	240	355	188	84	61	36	31	86	39	126	279	144
1984	212	165	239	117	107	34	28	46	15	17	21	43	87
1985	42	155	102	72	59	19	109	68	24	31	46	126	71
1986	107	208	269	71	27	17	10	10	21	30	136	116	85
1987	202	244	249	113	89	98	70	21	11	8	20	31	96
1988	117	174	132	122	51	19	64	17	55	25	84	65	76
1989	121	102	216	298	121	293	200	41	49	84	111	208	154
1990	277	267	380	109	86	32	23	13	11	11	16	25	103
1991	79	118	289	98	143	106	88	63	40	22	73	86	100
1992	234	249	178	92	34	31	22	38	26	28	314	191	119
1993	181	179	236	146	64	24	21	32	20	16	51	76	87
1994	125	223	170	89	54	46	376	56	39	65	74	112	119
1995	133	216	237	78	29	28	15	16	13	165	102	228	105
1996	247	204	329	139	63	39	42	34	51	36	38	95	109
1997	175	244	175	179	100	125	88	45	22	32	121	277	131
1998	229	338	339	167	79	37	23	17	42	67	30	38	116
1999	86	136	144	64	38	111	80	20	18	39	30	37	67
2000	110	57	73	74	33	20	17	16	21	12	36	64	44
2001	54	58	581	252	52	57	28	18	21	16	18	21	98
2002	36	52	118	74	37	22	27	15	14	16	52	69	44
2003	51	167	198	290	149	197	340	135	59	31	71	83	147
2004	72	164	68	53	40	29	37	51	148	50	125	95	77
2005	74	124	406	361	109	175	247	119	34	51	46	54	150
2006	88	134	268	82	58	33	20	21	18	30	101	50	75
2007	163	104	91	34	21	17	20	11	13	11	18	30	44
2008	50	154	96	76	45	16	13	74	17	25	28	73	55
2009	48	103	331	212	129	96	38	33	70	179	266	477	166
2010	291	214	276	75	114	77	24	22	11	10	13	22	95
2011	28	112	118	51	21	20	55	14	40	13	23	72	47
2012	94	111	78	55	40	22	16	15	12	9	9	39	41
2013	53	382	105	94	57	25	66	71	16	36	35	123	87
2014	68	113	145	349	76	45	40	55	23	18	19	51	83

Non-Exceedance Percentiles

02418230 - Sougahatchee Creek near Loachapoka, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	28	52	68	34	21	16	10	10	11	8	9	21	41
5th %	36	57	78	53	27	17	15	13	11	10	16	25	44
10th %	48	103	96	63	33	19	17	14	13	11	18	31	47
15th %	51	110	104	72	37	20	20	15	14	12	19	37	65
20th %	53	113	118	74	39	22	21	16	15	13	20	39	70
30th %	77	131	141	81	50	26	23	19	18	17	29	51	81
40th %	102	153	177	97	57	31	30	24	19	23	35	64	87
Median	119	166	226	119	63	36	37	32	22	27	46	72	99
60th %	132	179	243	154	85	48	41	39	27	31	69	87	106
70th %	184	214	276	196	102	66	65	48	39	36	84	113	111
80th %	212	244	329	253	115	85	82	55	44	41	112	147	125
90th %	247	274	356	299	143	113	133	71	60	69	125	229	148
Maximum	324	382	581	361	257	293	376	147	148	270	314	477	191
Average	136	180	224	155	82	60	68	41	33	42	69	105	99

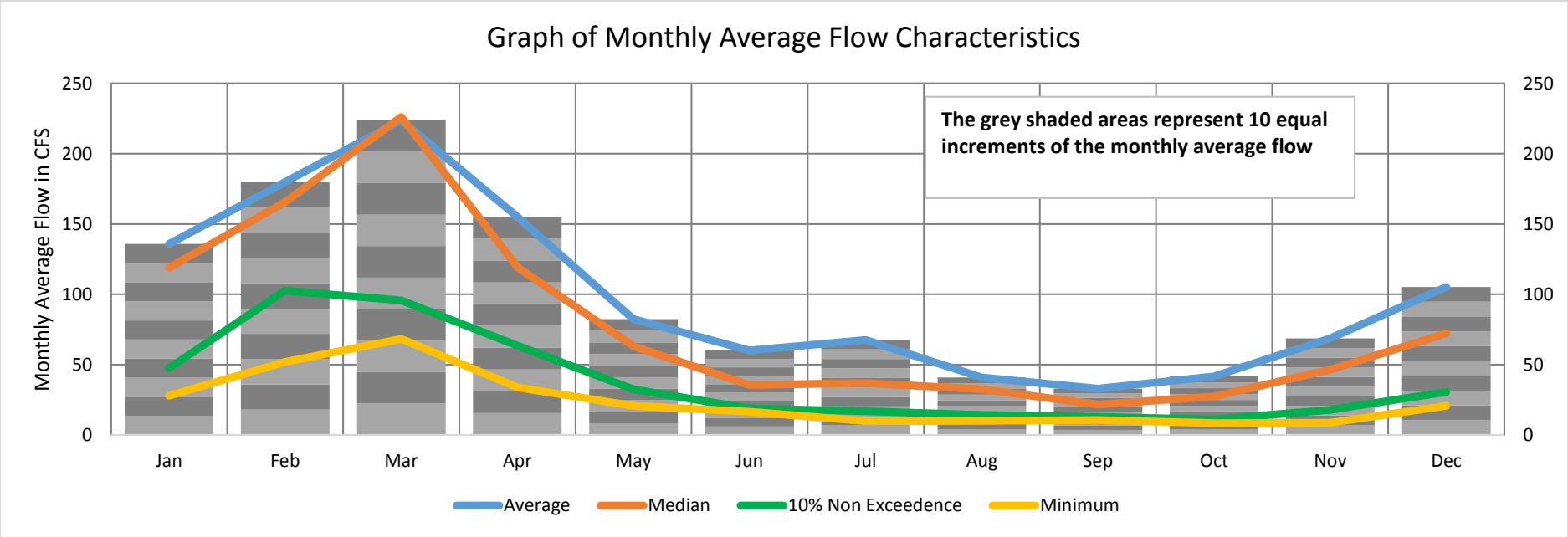
	Flows in CFS
Minimum	8.4
5th %	14
10th %	18
15th %	21
20th %	25
30th %	36
40th %	49
Median	65
60th %	88
70th %	118
80th %	168
90th %	245
Maximum	581
Average	99



Q10/Q50	0.27
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.12
Q5/DA	0.20
Q10/DA	0.25
Q15/DA	0.29
Q20/DA	0.35
Q30/DA	0.50
Q40/DA	0.68
Q50/DA	0.92
Q60/DA	1.23
Q70/DA	1.65
Q80/DA	2.35
Q90/DA	3.43
Qmax/DA	8.15

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

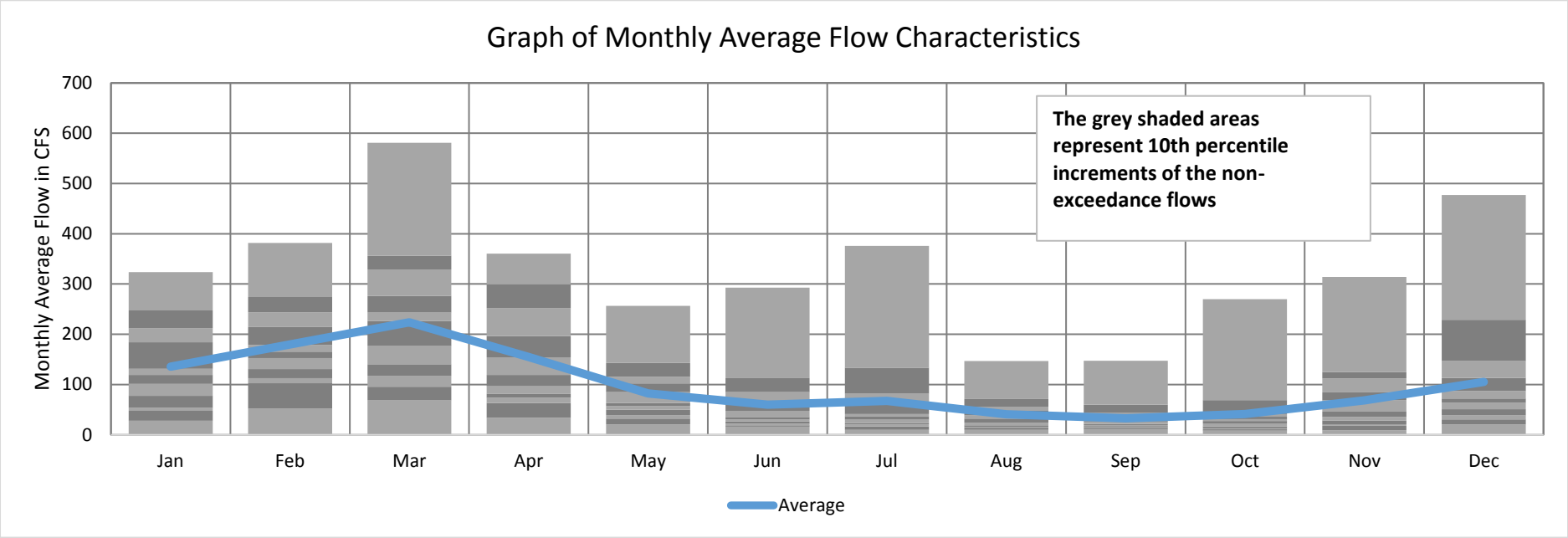
Site #: 02418230 Name: Sougahatchee Creek near Loachapoka, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	136	180	224	155	82	60	68	41	33	42	69	105
100%	324	382	581	361	257	293	376	147	148	270	314	477
98%	298	347	445	351	210	218	348	138	101	199	276	322
95%	278	324	381	343	191	176	252	120	86	165	143	277
90%	247	274	356	299	143	113	133	71	60	69	125	229
75%	203	228	290	215	107	78	72	52	40	37	101	124
50%	119	166	226	119	63	36	37	32	22	27	46	72
25%	71	120	126	76	44	23	22	17	16	16	22	43
10%	48	103	96	63	33	19	17	14	13	11	18	31
5%	36	57	78	53	27	17	15	13	11	9.9	16	25
2%	31	55	72	47	21	17	12	11	11	8.9	12	22
0%	28	52	68	34	21	16	9.8	9.9	11	8.4	8.6	21

Site #: 02418230 Name: Sougahatchee Creek near Loachapoka, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 71 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	136	180	224	155	82	60	68	41	33	42	69	105
100%	324	382	581	361	257	293	376	147	148	270	314	477
98%	298	347	445	351	210	218	348	138	101	199	276	322
95%	278	324	381	343	191	176	252	120	86	165	143	277
90%	247	274	356	299	143	113	133	71	60	69	125	229
75%	203	228	290	215	107	78	72	52	40	37	101	124
50%	119	166	226	119	63	36	37	32	22	27	46	72
25%	71	120	126	76	44	23	22	17	16	16	22	43
10%	48	103	96	63	33	19	17	14	13	11	18	31
5%	36	57	78	53	27	17	15	13	11	9.9	16	25
2%	31	55	72	47	21	17	12	11	11	8.9	12	22
0%	28	52	68	34	21	16	9.8	9.9	11	8.4	8.6	21

Monthly Flows (in CFS) for

02418500 - Tallapoosa River below Tallassee, Ala.

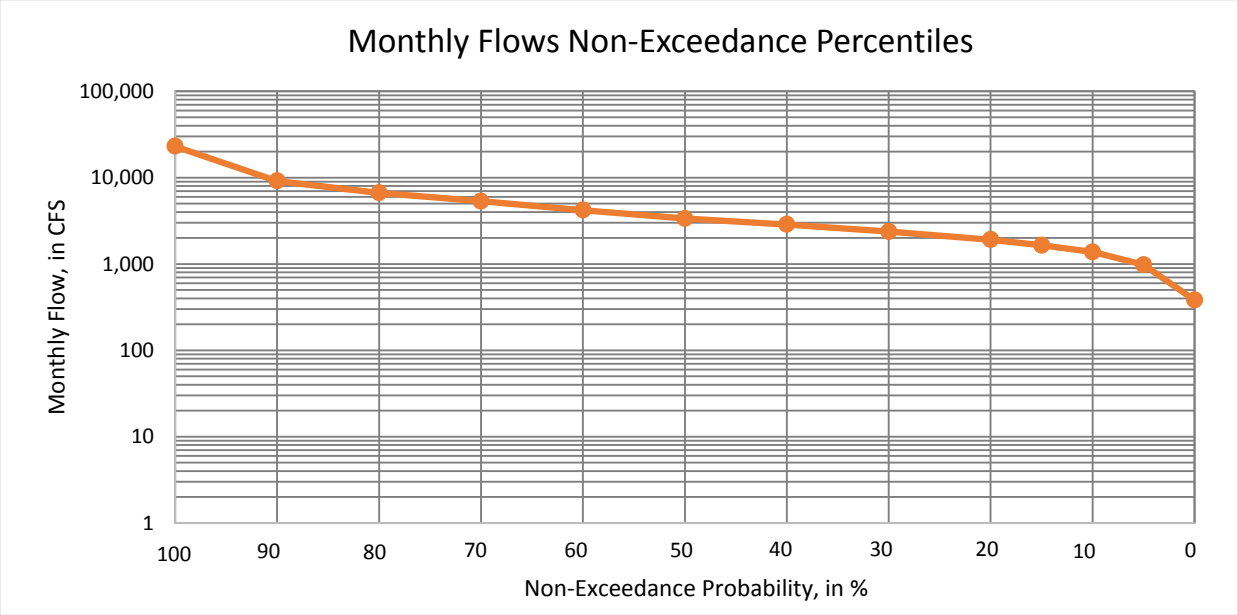
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	9,472	9,994	15,430	14,760	6,400	5,379	7,327	7,128	5,894	9,715	7,471	6,881	8,816
1976	8,800	8,828	10,950	10,150	7,271	4,464	3,929	2,684	3,326	1,600	3,578	6,070	5,954
1977	7,015	3,259	9,874	12,880	2,506	3,521	1,602	2,652	1,564	2,947	5,060	4,631	4,795
1978	6,975	8,262	5,765	982	6,390	4,109	2,105	2,430	2,056	1,214	2,011	2,921	3,748
1979	5,438	6,458	9,652	22,600	5,548	4,501	3,437	3,064	3,375	4,179	5,566	4,250	6,479
1980	6,315	6,969	12,850	12,730	8,694	3,487	3,033	1,668	1,326	1,981	3,379	3,777	5,509
1981	2,497	6,512	2,280	4,981	2,319	2,506	1,788	1,682	1,098	1,086	1,638	3,624	2,637
1982	7,043	11,580	5,609	7,554	4,793	3,288	2,985	3,022	1,270	2,364	2,614	9,380	5,088
1983	8,739	8,986	8,526	13,920	6,303	4,257	3,309	2,750	2,033	1,653	5,803	12,920	6,581
1984	10,340	9,119	6,459	4,248	6,685	2,282	2,589	9,205	2,869	1,621	3,871	4,930	5,343
1985	3,369	7,236	2,246	632	2,383	1,336	2,731	3,550	2,226	3,079	3,965	4,372	3,071
1986	2,107	2,782	1,231	1,034	1,713	1,438	2,247	1,672	924	681	3,203	5,544	2,046
1987	5,060	8,368	7,195	2,479	2,957	3,174	2,743	2,197	1,915	1,491	2,386	2,422	3,504
1988	4,646	5,144	633	521	381	2,416	814	924	3,129	3,343	5,285	3,357	2,525
1989	4,120	1,956	3,998	6,858	3,321	13,350	8,384	3,239	3,868	5,969	6,207	8,017	5,786
1990	8,065	18,060	22,970	4,840	3,967	1,896	2,027	1,973	1,384	1,170	2,370	3,076	5,921
1991	3,645	4,706	3,275	4,287	7,772	4,491	4,187	2,942	2,677	2,239	5,344	6,038	4,298
1992	6,789	7,266	6,378	3,125	2,288	3,533	2,265	3,536	3,176	3,085	9,342	11,840	5,206
1993	10,510	9,756	6,342	6,199	4,676	2,388	2,387	1,925	2,196	2,848	2,495	4,282	4,640
1994	3,176	5,275	4,878	5,658	2,802	2,962	7,558	5,141	2,968	4,333	5,253	6,827	4,737
1995	4,224	8,006	9,414	2,147	2,405	1,941	2,012	1,808	1,472	9,145	8,831	7,161	4,869
1996	6,022	13,720	12,600	5,034	2,899	2,759	1,952	2,750	2,509	3,534	3,916	6,016	5,259
1997	8,547	8,417	9,671	3,061	3,993	6,411	4,509	3,068	2,180	2,984	4,080	8,135	5,413
1998	10,300	11,600	15,800	8,202	4,008	3,230	2,362	3,438	2,681	1,920	3,414	3,511	5,841
1999	4,211	4,332	1,691	1,529	1,511	3,241	4,461	2,465	2,121	1,782	2,643	2,606	2,706
2000	2,976	1,956	1,037	2,574	1,551	1,739	1,885	1,793	1,651	1,630	1,425	2,187	1,866
2001	4,519	2,617	13,250	7,726	3,179	5,608	2,638	2,682	2,602	2,048	2,416	3,095	4,377
2002	4,535	3,419	1,379	758	1,870	1,421	1,616	1,928	2,130	3,001	7,547	8,698	3,192
2003	5,163	5,915	6,659	6,553	18,630	9,433	13,230	5,139	3,297	2,682	5,997	4,724	7,307
2004	3,636	5,842	1,151	556	1,798	2,273	2,466	2,211	5,803	3,327	7,883	8,058	3,729
2005	4,038	4,821	6,392	10,170	4,570	4,688	10,690	5,504	2,921	4,465	4,134	4,739	5,602
2006	5,900	5,326	3,941	2,143	3,326	1,312	1,491	1,677	2,214	1,727	5,169	3,508	3,131
2007	4,625	2,767	613	432	915	2,310	1,624	638	1,028	1,834	488	407	1,467
2008	404	651	1,001	2,770	2,673	1,710	1,406	1,023	1,911	2,260	2,867	5,480	2,021
2009	3,994	1,241	7,059	5,916	6,075	2,369	1,792	2,214	6,153	10,910	12,610	14,500	6,271
2010	12,570	12,370	10,450	3,011	5,595	3,271	1,391	1,511	1,719	1,646	3,459	2,708	4,937
2011	1,891	2,104	5,778	3,276	1,356	1,137	1,249	944	936	1,048	3,399	2,706	2,152
2012	5,953	3,954	3,342	831	1,015	1,546	854	772	817	1,355	2,913	4,753	2,338
2013	4,180	9,499	4,446	4,148	6,969	3,489	6,881	3,886	2,800	2,699	3,303	8,128	5,017
2014	8,260	6,153	5,314	12,860	5,369	4,024	2,074	1,376	1,273	2,267	3,548	4,756	4,754

Non-Exceedance Percentiles

02418500 - Tallapoosa River below Tallassee, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	404	651	613	432	381	1,137	814	638	817	681	488	407	1,467
5th %	2,096	1,920	983	555	1,010	1,335	1,229	916	935	1,084	1,627	2,410	2,013
10th %	2,928	2,089	1,140	745	1,496	1,436	1,405	1,015	1,091	1,210	2,334	2,696	2,141
15th %	3,340	2,745	1,357	960	1,689	1,685	1,585	1,491	1,273	1,471	2,412	2,889	2,497
20th %	3,643	3,164	2,135	1,430	1,856	1,865	1,622	1,671	1,372	1,617	2,590	3,091	2,693
30th %	4,162	4,594	3,761	2,546	2,398	2,302	1,932	1,804	1,699	1,705	3,116	3,590	3,411
40th %	4,529	5,306	5,140	3,099	2,860	2,470	2,093	2,107	2,047	1,957	3,408	4,336	4,345
Median	5,112	6,306	6,060	4,268	3,324	3,202	2,375	2,448	2,188	2,263	3,725	4,746	4,774
60th %	5,981	7,248	6,539	5,284	4,233	3,368	2,675	2,710	2,546	2,759	4,102	5,506	5,045
70th %	6,987	8,383	8,792	6,645	5,423	3,680	3,116	3,035	2,821	3,024	5,263	6,297	5,364
80th %	8,318	9,195	9,989	8,592	6,320	4,469	4,242	3,458	3,138	3,381	5,842	8,025	5,797
90th %	9,555	11,582	12,890	12,862	6,999	5,402	7,350	5,139	3,424	4,615	7,581	8,766	6,292
Maximum	12,570	18,060	22,970	22,600	18,630	13,350	13,230	9,205	6,153	10,910	12,610	14,500	8,816
Average	5,752	6,631	6,688	5,603	4,222	3,467	3,351	2,755	2,437	2,972	4,422	5,526	4,473

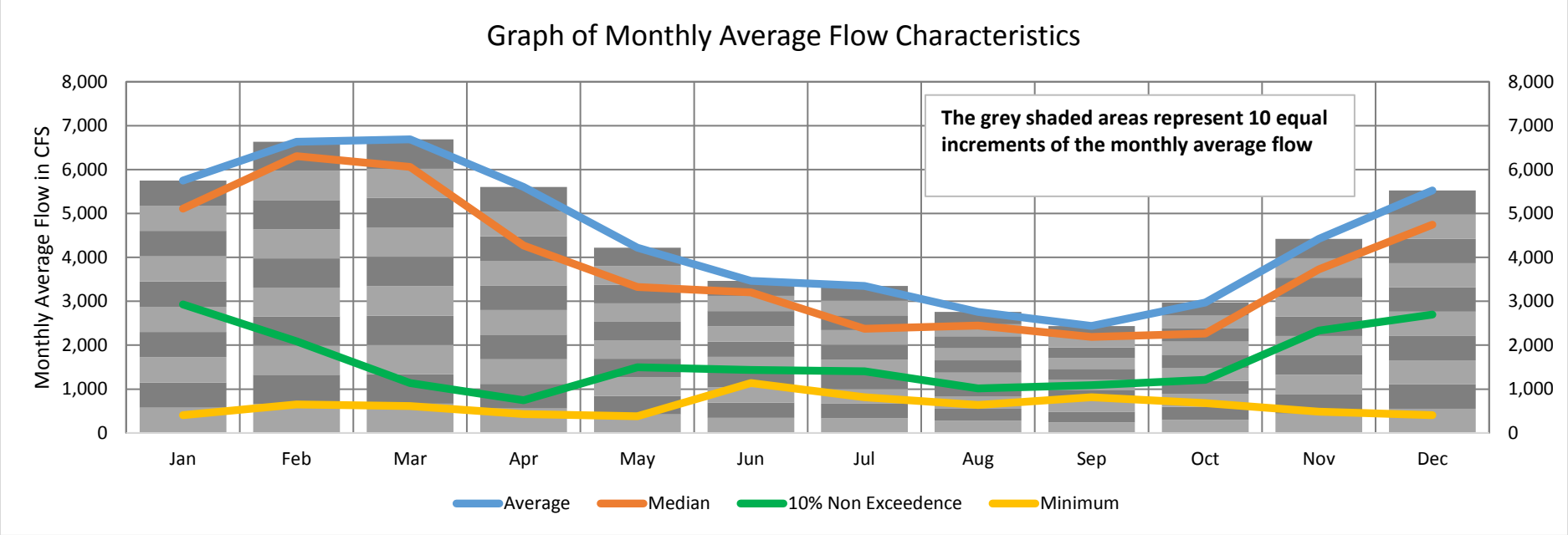
	Flows in CFS
Minimum	381.3
5th %	980
10th %	1,374
15th %	1,645
20th %	1,908
30th %	2,370
40th %	2,868
Median	3,350
60th %	4,197
70th %	5,318
80th %	6,664
90th %	9,122
Maximum	22,970
Average	4,485



Q10/Q50	0.41
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.11
Q5/DA	0.29
Q10/DA	0.41
Q15/DA	0.49
Q20/DA	0.57
Q30/DA	0.71
Q40/DA	0.86
Q50/DA	1.01
Q60/DA	1.26
Q70/DA	1.60
Q80/DA	2.00
Q90/DA	2.74
Qmax/DA	6.90

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

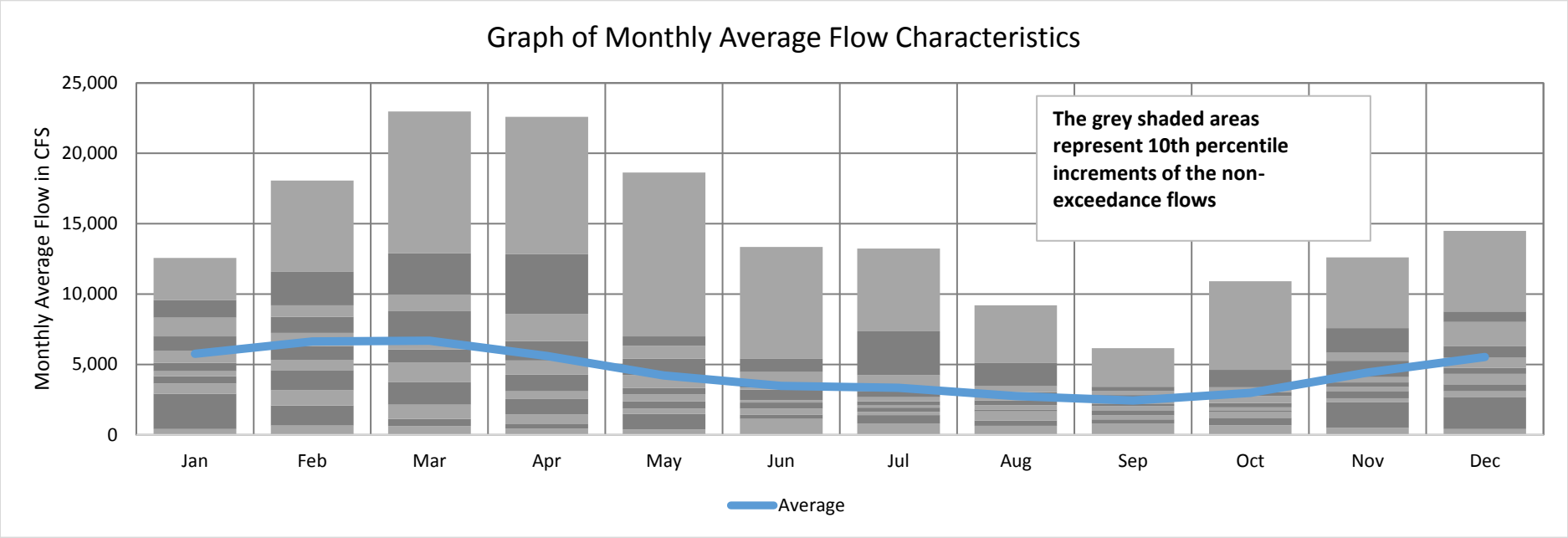
Site #: 02418500 Name: Tallapoosa River below Tallassee, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,752	6,631	6,688	5,603	4,222	3,467	3,351	2,755	2,437	2,972	4,422	5,526
100%	12,570	18,060	22,970	22,600	18,630	13,350	13,230	9,205	6,153	10,910	12,610	14,500
98%	10,963	14,675	17,377	16,485	10,880	10,295	11,249	7,585	5,951	9,978	10,061	13,268
95%	10,349	12,438	15,449	13,962	7,818	6,562	8,499	5,585	5,808	9,174	8,857	11,894
90%	9,555	11,582	12,890	12,862	6,999	5,402	7,350	5,139	3,424	4,615	7,581	8,766
75%	7,299	8,868	9,657	7,597	5,715	4,146	3,560	3,111	2,933	3,146	5,400	6,951
50%	5,112	6,306	6,060	4,268	3,324	3,202	2,375	2,448	2,188	2,263	3,725	4,746
25%	4,027	3,820	3,026	2,146	2,311	2,190	1,791	1,681	1,541	1,642	2,811	3,470
10%	2,928	2,089	1,140	745	1,496	1,436	1,405	1,015	1,091	1,210	2,334	2,696
5%	2,096	1,920	983	555	1,010	1,335	1,229	916	935	1,084	1,627	2,410
2%	1,564	1,111	628	502	797	1,274	845	743	900	967	1,219	1,795
0%	404	651	613	432	381	1,137	814	638	817	681	488	407

Site #: 02418500 Name: Tallapoosa River below Tallassee, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,328 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,752	6,631	6,688	5,603	4,222	3,467	3,351	2,755	2,437	2,972	4,422	5,526
100%	12,570	18,060	22,970	22,600	18,630	13,350	13,230	9,205	6,153	10,910	12,610	14,500
98%	10,963	14,675	17,377	16,485	10,880	10,295	11,249	7,585	5,951	9,978	10,061	13,268
95%	10,349	12,438	15,449	13,962	7,818	6,562	8,499	5,585	5,808	9,174	8,857	11,894
90%	9,555	11,582	12,890	12,862	6,999	5,402	7,350	5,139	3,424	4,615	7,581	8,766
75%	7,299	8,868	9,657	7,597	5,715	4,146	3,560	3,111	2,933	3,146	5,400	6,951
50%	5,112	6,306	6,060	4,268	3,324	3,202	2,375	2,448	2,188	2,263	3,725	4,746
25%	4,027	3,820	3,026	2,146	2,311	2,190	1,791	1,681	1,541	1,642	2,811	3,470
10%	2,928	2,089	1,140	745	1,496	1,436	1,405	1,015	1,091	1,210	2,334	2,696
5%	2,096	1,920	983	555	1,010	1,335	1,229	916	935	1,084	1,627	2,410
2%	1,564	1,111	628	502	797	1,274	845	743	900	967	1,219	1,795
0%	404	651	613	432	381	1,137	814	638	817	681	488	407

Monthly Flows (in CFS) for
02419000 - Uphapee Creek near Tuskegee, Ala.

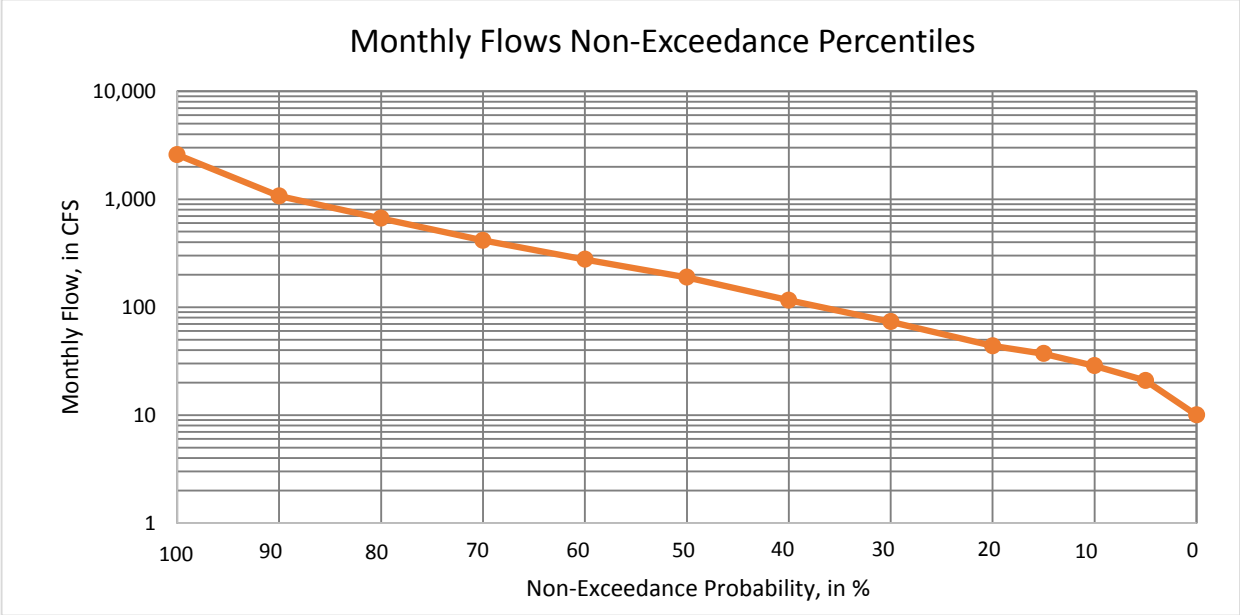
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,139	1,651	1,815	1,549	329	247	446	553	269	1,284	424	495	846
1976	796	571	1,080	816	791	217	227	79	53	77	398	875	499
1977	876	424	1,456	845	115	42	72	141	91	81	257	274	390
1978	1,652	556	801	507	1,196	244	81	119	24	16	32	99	446
1979	470	1,615	1,324	1,786	462	127	153	51	83	52	107	173	525
1980	381	687	1,985	1,178	830	168	66	22	22	40	59	73	458
1981	66	731	392	1,250	156	53	33	49	30	20	29	130	240
1982	460	1,277	458	1,010	345	63	93	116	33	43	190	1,048	422
1983	928	1,093	1,873	777	255	163	77	64	263	89	444	1,341	612
1984	919	648	1,087	403	355	72	55	111	24	27	37	102	319
1985	99	596	332	204	156	31	363	192	44	64	112	445	218
1986	357	897	1,277	201	54	28	13	13	37	62	497	399	316
1987	859	1,115	1,149	382	275	317	199	38	15	10	35	63	367
1988	403	698	475	425	127	32	175	29	141	47	255	178	245
1989	422	332	944	1,472	424	1,435	847	94	120	256	376	895	635
1990	1,329	1,264	2,063	364	264	65	43	20	15	15	26	49	457
1991	232	406	1,408	317	530	350	271	169	91	39	209	265	358
1992	1,055	1,145	719	287	73	63	40	84	51	55	1,582	794	490
1993	739	724	1,066	545	174	44	37	66	34	26	126	222	315
1994	444	988	674	277	138	109	2,033	145	87	177	212	380	471
1995	479	944	1,069	231	58	56	24	26	19	647	333	1,017	407
1996	1,137	868	1,687	513	169	87	98	73	127	80	84	303	434
1997	702	1,118	706	724	325	443	270	106	41	66	421	1,333	517
1998	1,020	1,751	1,760	660	232	83	41	29	99	187	61	84	493
1999	261	497	539	176	83	376	239	34	31	89	61	141	209
2000	331	177	459	194	39	16	10	17	25	14	85	164	128
2001	253	251	2,584	802	130	148	80	35	28	25	29	36	369
2002	85	186	409	324	43	42	38	25	18	25	98	171	121
2003	150	612	1,038	975	374	399	763	318	89	70	131	241	429
2004	266	605	239	145	203	78	77	70	326	66	233	308	215
2005	265	727	1,477	1,469	293	482	623	526	107	212	140	188	541
2006	293	734	592	239	183	66	39	41	29	44	163	93	206
2007	457	339	626	230	33	16	33	11	17	15	27	52	154
2008	175	436	379	308	75	15	17	146	38	68	79	332	171
2009	258	277	1,648	1,275	474	332	56	64	89	407	1,061	2,170	679
2010	1,285	978	1,101	233	343	136	37	29	25	21	29	44	353
2011	55	234	378	186	37	21	50	20	43	19	39	99	97
2012	268	379	256	152	110	62	38	28	28	25	24	95	121
2013	165	1,775	534	422	238	292	1,049	474	68	33	49	468	456
2014	446	771	757	1,886	413	146	99	57	35	45	53	168	402

Non-Exceedance Percentiles

02419000 - Uphapee Creek near Tuskegee, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	55	177	239	145	33	15	10	11	15	10	24	36	97
5th %	84	232	328	175	39	16	17	17	17	15	27	48	121
10th %	145	274	379	193	53	28	32	20	19	16	29	62	151
15th %	173	338	406	204	71	32	36	24	23	20	32	82	201
20th %	249	400	459	231	82	42	37	28	24	24	37	94	214
30th %	265	538	576	284	129	61	41	32	29	27	57	121	294
40th %	347	609	714	348	164	66	56	46	34	41	82	170	356
Median	433	711	991	423	218	85	77	64	39	49	110	205	396
60th %	464	749	1,083	591	268	140	95	76	52	65	149	285	431
70th %	756	954	1,291	806	333	183	182	108	87	72	218	385	457
80th %	921	1,116	1,511	1,044	381	297	270	142	93	89	341	555	495
90th %	1,137	1,311	1,821	1,469	479	379	637	204	128	216	426	1,020	548
Maximum	1,652	1,775	2,584	1,886	1,196	1,435	2,033	553	326	1,284	1,582	2,170	846
Average	549	777	1,015	643	273	179	225	107	70	116	215	395	378

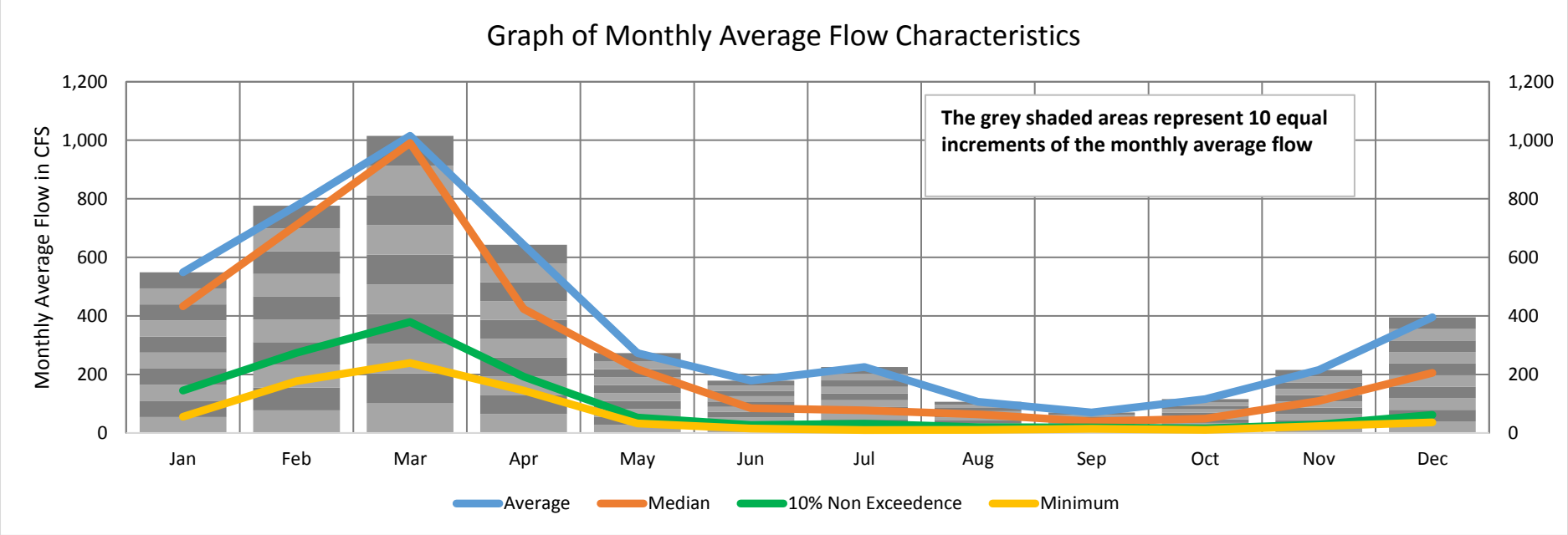
	Flows in CFS
Minimum	10.0
5th %	21
10th %	29
15th %	37
20th %	44
30th %	73
40th %	116
Median	189
60th %	277
70th %	415
80th %	663
90th %	1,070
Maximum	2,584
Average	380



Q10/Q50	0.15
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.03
Q5/DA	0.06
Q10/DA	0.09
Q15/DA	0.11
Q20/DA	0.13
Q30/DA	0.22
Q40/DA	0.35
Q50/DA	0.57
Q60/DA	0.83
Q70/DA	1.25
Q80/DA	1.99
Q90/DA	3.21
Qmax/DA	7.76

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

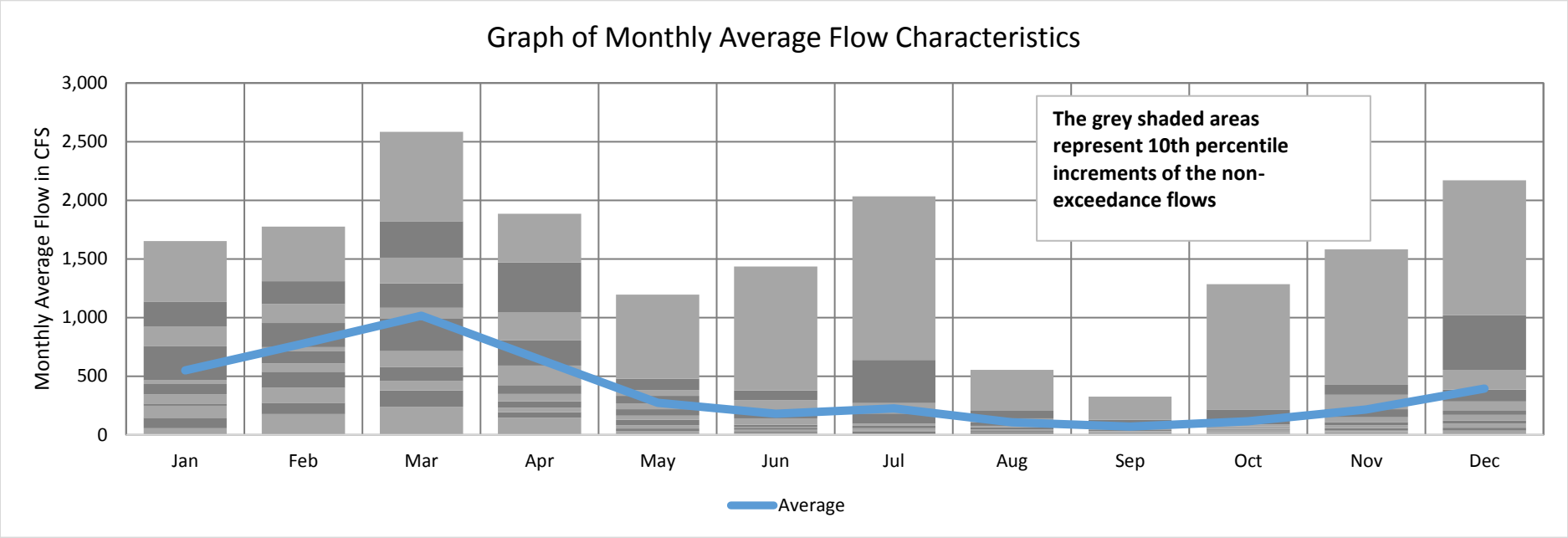
Site #: 02419000 Name: Uphapee Creek near Tuskegee, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	549	777	1,015	643	273	179	225	107	70	116	215	395
100%	1,652	1,775	2,584	1,886	1,196	1,435	2,033	553	326	1,284	1,582	2,170
98%	1,400	1,756	2,178	1,808	910	692	1,265	532	281	787	1,176	1,523
95%	1,287	1,656	1,989	1,561	793	445	857	476	263	419	526	1,333
90%	1,137	1,311	1,821	1,469	479	379	637	204	128	216	426	1,020
75%	863	1,014	1,420	877	348	244	230	117	90	80	256	451
50%	433	711	991	423	218	85	77	64	39	49	110	205
25%	260	433	519	237	114	51	39	29	27	25	46	99
10%	145	274	379	193	53	28	32	20	19	16	29	62
5%	84	232	328	175	39	16	17	17	17	15	27	48
2%	64	184	253	151	36	16	12	13	15	13	25	42
0%	55	177	239	145	33	15	10	11	15	10	24	36

Site #: 02419000 Name: Uphapee Creek near Tuskegee, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 333 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	549	777	1,015	643	273	179	225	107	70	116	215	395
100%	1,652	1,775	2,584	1,886	1,196	1,435	2,033	553	326	1,284	1,582	2,170
98%	1,400	1,756	2,178	1,808	910	692	1,265	532	281	787	1,176	1,523
95%	1,287	1,656	1,989	1,561	793	445	857	476	263	419	526	1,333
90%	1,137	1,311	1,821	1,469	479	379	637	204	128	216	426	1,020
75%	863	1,014	1,420	877	348	244	230	117	90	80	256	451
50%	433	711	991	423	218	85	77	64	39	49	110	205
25%	260	433	519	237	114	51	39	29	27	25	46	99
10%	145	274	379	193	53	28	32	20	19	16	29	62
5%	84	232	328	175	39	16	17	17	17	15	27	48
2%	64	184	253	151	36	16	12	13	15	13	25	42
0%	55	177	239	145	33	15	10	11	15	10	24	36

Monthly Flows (in CFS) for

02419890 - Tallapoosa River near Montgomery, Ala. (represents streamflow for 03150110)

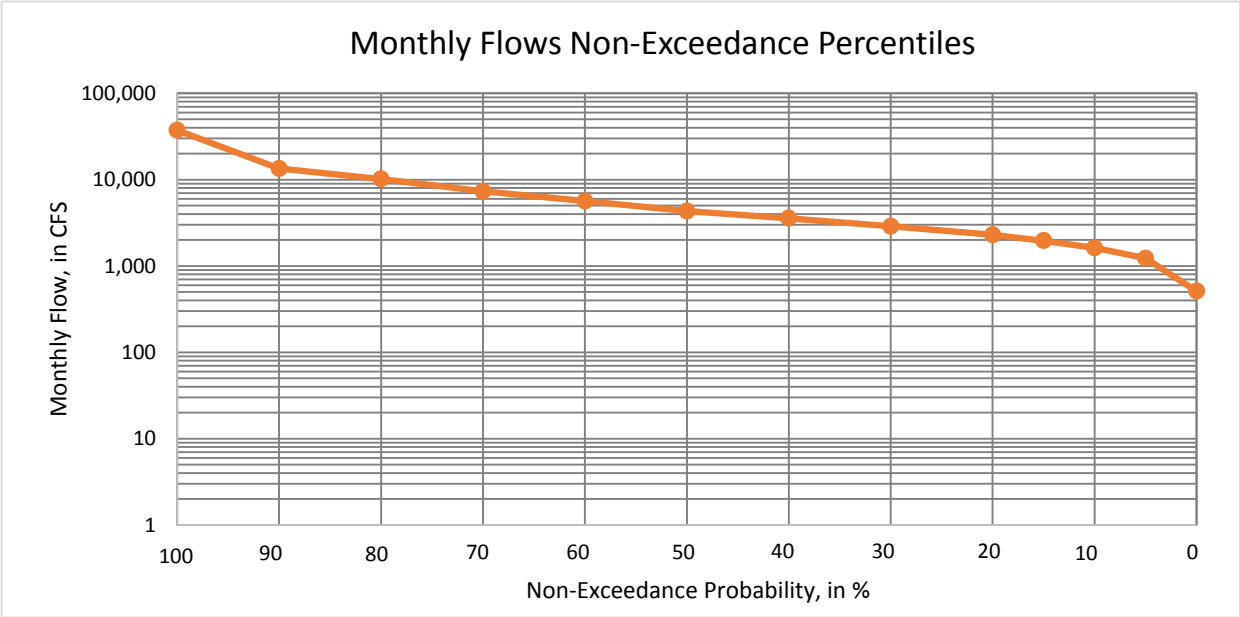
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	14,501	16,065	24,758	23,282	8,780	7,208	10,293	10,158	7,970	15,086	10,470	9,714	13,177
1976	12,980	12,688	16,651	15,037	10,715	5,887	5,164	3,294	4,111	1,901	4,918	9,092	8,514
1977	10,464	4,520	15,587	19,252	3,108	4,358	1,896	3,333	1,873	3,643	6,774	6,198	6,755
1978	11,544	11,826	8,545	1,668	10,020	5,434	2,544	3,014	2,408	1,350	2,362	3,633	5,336
1979	7,608	10,730	15,051	36,263	7,752	5,813	4,395	3,758	4,217	5,267	7,276	5,531	9,418
1980	8,732	10,122	20,975	19,536	12,873	4,482	3,738	1,916	1,494	2,334	4,190	4,746	7,916
1981	3,033	9,521	3,175	8,067	2,917	3,027	2,080	1,968	1,228	1,202	1,887	4,616	3,511
1982	9,899	17,916	7,834	11,451	6,524	4,074	3,710	3,790	1,439	2,829	3,347	14,226	7,189
1983	13,086	13,702	14,182	20,760	8,535	5,526	4,121	3,360	2,686	1,981	8,091	20,083	9,648
1984	15,479	13,235	9,961	5,846	9,229	2,761	3,138	12,563	3,464	1,865	4,826	6,374	7,382
1985	4,230	10,378	3,051	883	3,000	1,518	3,731	4,600	2,652	3,796	5,056	6,075	4,046
1986	2,904	4,515	2,961	1,357	2,013	1,639	2,640	1,911	1,029	775	4,544	7,657	2,822
1987	7,623	12,812	11,128	3,422	3,914	4,261	3,530	2,607	2,218	1,682	2,848	2,930	4,869
1988	6,398	7,514	1,204	1,012	510	2,883	1,062	1,019	3,966	4,125	7,088	4,321	3,388
1989	5,694	2,675	6,249	11,107	4,604	20,897	12,437	4,049	4,934	8,058	8,570	11,965	8,452
1990	12,680	28,065	37,324	6,615	5,267	2,258	2,396	2,298	1,556	1,296	2,815	3,771	8,765
1991	4,784	6,486	5,890	5,781	11,066	6,108	5,579	3,754	3,300	2,663	7,106	8,169	5,889
1992	10,396	11,226	9,311	4,156	2,770	4,403	2,697	4,435	3,907	3,792	14,973	17,573	7,446
1993	15,464	14,303	9,761	8,802	6,121	2,861	2,851	2,295	2,601	3,440	3,108	5,642	6,396
1994	4,435	8,113	7,104	7,645	3,526	3,701	12,973	6,730	3,678	5,650	6,982	9,469	6,668
1995	5,918	12,022	14,308	2,792	2,902	2,304	2,353	2,097	1,670	13,100	10,720	11,640	6,803
1996	11,240	20,630	22,140	7,926	3,828	3,124	2,105	2,851	3,149	3,589	4,046	7,183	7,578
1997	12,360	13,790	13,350	5,402	5,811	8,156	5,548	3,592	2,318	3,287	5,416	13,940	7,724
1998	14,830	20,450	25,010	11,180	4,691	3,327	2,351	3,068	2,794	2,844	2,801	3,596	8,010
1999	5,596	7,584	4,067	2,079	1,636	4,549	6,040	2,527	2,034	2,363	2,624	3,088	3,660
2000	3,979	2,770	2,897	5,425	1,543	1,758	1,792	1,685	1,736	1,587	1,765	3,264	2,513
2001	6,096	4,485	25,230	12,390	4,050	6,556	3,591	3,024	2,648	2,034	2,489	3,387	6,350
2002	5,426	4,441	3,652	2,071	2,032	1,561	1,615	1,973	2,145	2,950	8,236	10,300	3,866
2003	6,369	9,346	12,130	11,590	23,340	12,330	16,470	7,593	4,361	3,678	7,051	6,727	10,102
2004	5,554	9,583	2,205	1,346	2,625	2,896	3,144	2,569	7,682	3,909	10,200	10,360	5,133
2005	5,656	8,277	11,910	19,780	6,017	6,236	14,640	8,742	3,780	2,827	4,225	5,585	8,134
2006	7,058	8,236	7,175	2,592	3,820	1,380	1,387	1,614	2,126	1,542	5,894	3,853	3,864
2007	6,985	4,314	2,748	1,161	918	2,089	1,566	671	1,130	2,048	609	546	2,056
2008	1,227	2,458	2,380	3,944	2,683	1,658	1,544	3,170	2,090	2,370	2,933	7,431	2,829
2009	6,420	1,992	14,050	12,110	11,580	4,125	2,179	2,548	7,181	13,370	18,480	25,860	10,052
2010	19,350	18,110	16,500	3,696	6,922	3,698	1,513	1,743	1,816	1,745	3,375	3,111	6,745
2011	2,224	3,377	9,374	4,678	1,818	1,396	1,471	921	853	758	3,096	2,904	2,736
2012	6,961	5,826	4,537	1,181	1,347	1,590	824	695	688	1,072	2,904	5,074	2,712
2013	5,433	18,740	8,012	6,279	9,228	5,163	10,660	5,055	2,899	3,353	4,178	11,380	7,471
2014	11,550	8,852	7,655	19,790	7,387	5,256	2,597	1,662	1,510	2,795	4,513	6,287	6,624

Non-Exceedance Percentiles

02419890 - Tallapoosa River near Montgomery, Ala. (represents streamflow for 03150110)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546	2,056
5th %	2,870	2,664	2,371	1,154	1,326	1,512	1,371	910	1,020	1,057	1,881	2,929	2,702
10th %	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109	2,814
15th %	4,404	4,422	3,038	1,621	1,984	1,655	1,563	1,682	1,486	1,513	2,774	3,369	3,304
20th %	5,298	4,509	3,557	2,077	2,506	2,023	1,757	1,877	1,547	1,663	2,841	3,626	3,630
30th %	5,638	7,206	6,141	3,614	2,913	2,831	2,157	2,060	1,856	1,957	3,104	4,528	4,622
40th %	6,260	8,261	7,762	5,112	3,702	3,085	2,485	2,540	2,137	2,351	4,125	5,563	6,166
Median	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242	6,707
60th %	8,067	10,929	11,441	7,982	5,893	4,376	3,554	3,220	2,729	3,085	5,200	7,282	7,266
70th %	10,697	12,725	14,090	11,261	7,062	5,191	3,853	3,641	3,349	3,605	7,002	9,205	7,622
80th %	12,424	13,893	15,769	12,919	8,870	5,828	5,554	4,127	3,919	3,819	7,439	10,564	8,198
90th %	14,534	18,173	22,402	19,781	10,750	6,621	10,838	6,817	4,418	5,891	10,227	13,969	9,441
Maximum	19,350	28,065	37,324	36,263	23,340	20,897	16,470	12,563	7,970	15,086	18,480	25,860	13,177
Average	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683	6,314

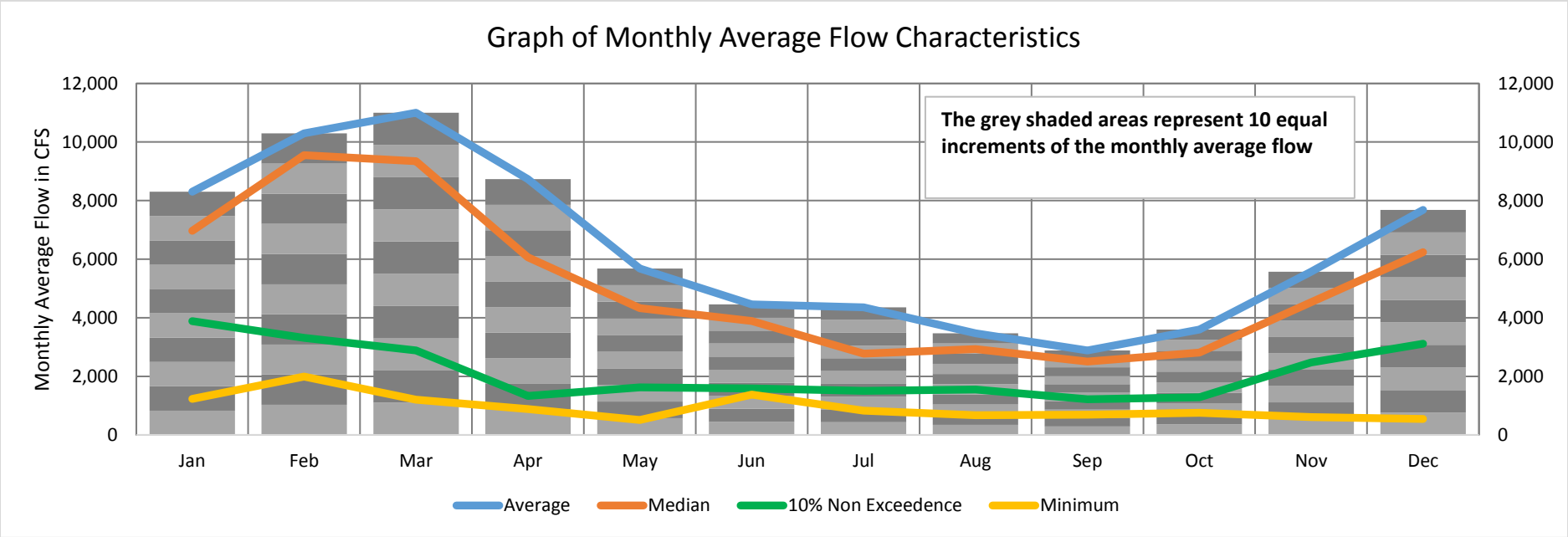
	Flows in CFS
Minimum	509.7
5th %	1,228
10th %	1,615
15th %	1,960
20th %	2,298
30th %	2,876
40th %	3,565
Median	4,318
60th %	5,645
70th %	7,309
80th %	10,129
90th %	13,403
Maximum	37,324
Average	6,336



Q10/Q50	0.37
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.11
Q5/DA	0.26
Q10/DA	0.35
Q15/DA	0.42
Q20/DA	0.49
Q30/DA	0.62
Q40/DA	0.77
Q50/DA	0.93
Q60/DA	1.22
Q70/DA	1.57
Q80/DA	2.18
Q90/DA	2.88
Qmax/DA	8.03

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

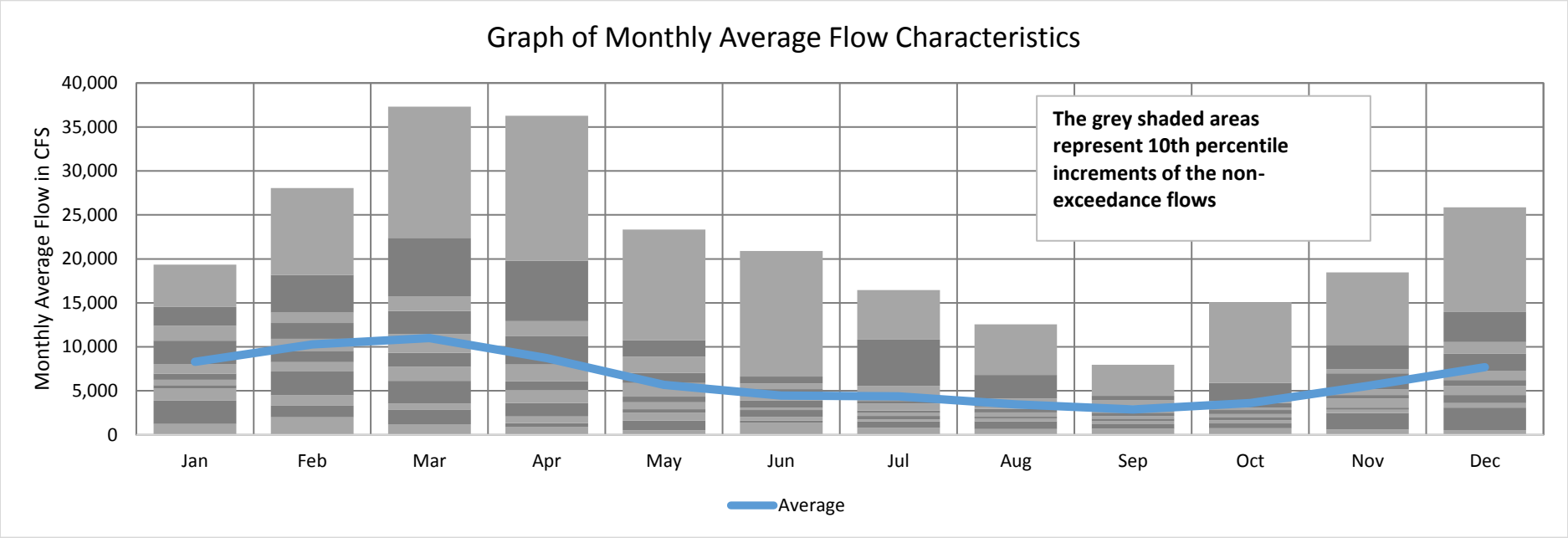
Site #: 02419890 Name: Tallapoosa River near Montgomery, Ala. (represents streamflow for 03150110)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683
100%	19,350	28,065	37,324	36,263	23,340	20,897	16,470	12,563	7,970	15,086	18,480	25,860
98%	16,330	22,266	27,891	26,138	15,175	14,215	15,043	10,687	7,745	13,748	15,744	21,354
95%	15,464	20,459	25,021	20,886	11,645	8,365	13,056	8,813	7,206	13,114	10,933	17,699
90%	14,534	18,173	22,402	19,781	10,750	6,621	10,838	6,817	4,418	5,891	10,227	13,969
75%	11,546	13,352	14,494	11,720	7,948	5,457	4,587	3,766	3,704	3,706	7,092	9,861
50%	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242
25%	5,524	5,499	4,420	2,742	2,748	2,292	2,034	1,955	1,719	1,835	2,926	3,833
10%	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109
5%	2,870	2,664	2,371	1,154	1,326	1,512	1,371	910	1,020	1,057	1,881	2,929
2%	2,005	2,355	1,985	983	828	1,392	1,010	690	817	771	1,511	2,385
0%	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546

Site #: 02419890 Name: Tallapoosa River near Montgomery, Ala. (represents streamflow for 03150110)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,646 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	8,304	10,292	11,001	8,734	5,686	4,456	4,359	3,466	2,884	3,599	5,570	7,683
100%	19,350	28,065	37,324	36,263	23,340	20,897	16,470	12,563	7,970	15,086	18,480	25,860
98%	16,330	22,266	27,891	26,138	15,175	14,215	15,043	10,687	7,745	13,748	15,744	21,354
95%	15,464	20,459	25,021	20,886	11,645	8,365	13,056	8,813	7,206	13,114	10,933	17,699
90%	14,534	18,173	22,402	19,781	10,750	6,621	10,838	6,817	4,418	5,891	10,227	13,969
75%	11,546	13,352	14,494	11,720	7,948	5,457	4,587	3,766	3,704	3,706	7,092	9,861
50%	6,973	9,552	9,343	6,062	4,327	3,887	2,774	2,932	2,505	2,811	4,528	6,242
25%	5,524	5,499	4,420	2,742	2,748	2,292	2,034	1,955	1,719	1,835	2,926	3,833
10%	3,884	3,316	2,882	1,330	1,627	1,587	1,509	1,554	1,218	1,286	2,476	3,109
5%	2,870	2,664	2,371	1,154	1,326	1,512	1,371	910	1,020	1,057	1,881	2,929
2%	2,005	2,355	1,985	983	828	1,392	1,010	690	817	771	1,511	2,385
0%	1,227	1,992	1,204	883	510	1,380	824	671	688	758	609	546

Monthly Flows (in CFS) for

02420000 - Alabama River near Montgomery, Ala.

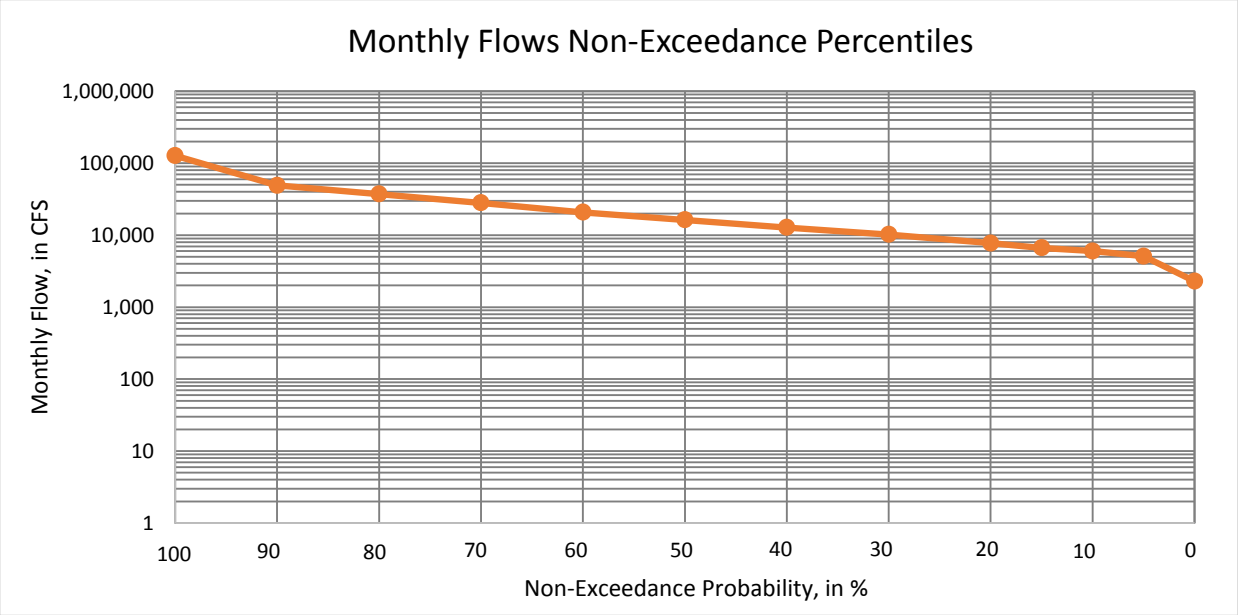
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	48,370	63,900	65,630	49,590	22,930	18,110	22,660	23,490	30,470	41,260	25,010	27,810	36,442
1976	49,420	32,190	79,810	54,350	31,510	18,040	21,090	10,540	9,144	6,727	12,120	25,240	29,220
1977	33,290	19,740	64,760	79,590	13,550	10,030	5,980	7,438	9,055	17,100	34,910	20,220	26,282
1978	52,540	23,740	31,930	13,640	43,020	15,900	7,204	9,805	7,732	4,737	7,809	16,300	19,586
1979	39,930	41,180	81,210	127,200	31,400	22,750	18,260	10,810	21,070	23,940	28,460	18,180	38,556
1980	41,870	39,570	101,000	80,860	43,020	14,880	10,180	6,597	10,580	7,704	13,140	12,930	31,819
1981	5,848	42,310	22,460	37,360	8,036	13,270	8,070	5,859	6,112	4,971	6,460	15,670	14,463
1982	48,740	71,180	34,930	49,270	23,160	13,100	11,250	12,170	5,790	7,324	13,310	58,740	28,830
1983	34,550	47,610	47,320	66,670	32,750	16,090	9,777	6,316	8,427	7,300	25,080	74,420	31,251
1984	53,680	35,630	34,980	32,290	40,060	11,070	13,650	33,200	8,876	9,403	12,420	18,560	25,334
1985	13,860	46,710	16,400	10,600	13,820	6,883	14,940	12,610	6,617	10,250	12,070	16,790	14,936
1986	9,129	15,540	17,970	6,317	4,681	4,513	4,977	4,529	4,113	3,965	19,610	25,320	10,026
1987	38,890	39,390	51,580	16,280	9,887	11,370	10,390	5,474	5,530	5,274	5,447	8,323	17,222
1988	24,650	20,620	10,580	10,530	5,935	5,257	4,116	4,210	14,830	9,048	18,820	12,630	11,690
1989	31,850	20,890	48,190	35,970	15,840	59,320	38,710	11,730	13,330	29,760	28,770	33,580	30,702
1990	56,650	101,100	107,200	23,470	17,710	8,767	8,081	6,613	5,567	9,733	9,714	19,862	30,843
1991	22,988	31,209	38,118	32,744	43,143	17,308	12,248	9,324	9,806	8,311	12,423	20,769	21,491
1992	29,841	35,061	38,760	19,290	9,094	14,102	10,402	14,325	16,289	10,838	46,367	51,154	24,548
1993	65,139	31,279	44,189	27,399	17,559	10,074	8,284	6,322	5,701	4,648	7,871	14,452	20,234
1994	22,751	35,424	44,776	53,192	13,945	12,134	20,685	13,453	14,208	23,281	14,991	34,322	25,198
1995	24,789	49,088	50,331	14,763	10,886	8,001	6,664	5,939	6,554	41,426	41,510	28,557	23,906
1996	49,326	65,363	69,787	29,576	15,563	13,151	8,759	9,380	11,246	10,202	16,987	27,971	27,067
1997	42,612	39,905	51,098	28,613	31,293	35,703	13,742	10,924	8,478	19,331	21,802	24,412	27,263
1998	48,865	69,187	56,821	52,103	21,439	13,014	8,745	8,910	6,411	5,716	8,376	15,521	25,975
1999	32,828	36,178	28,306	13,581	16,484	16,791	21,272	7,313	6,046	6,062	9,574	8,467	16,809
2000	12,312	11,190	21,816	52,648	9,325	5,304	4,948	5,369	5,098	5,461	10,189	9,247	12,694
2001	20,350	26,813	60,352	29,841	11,007	19,890	12,928	10,649	12,106	7,487	9,412	16,950	19,780
2002	27,230	21,250	18,960	19,400	16,760	7,567	7,447	6,848	10,650	12,780	31,680	49,050	19,138
2003	23,380	41,180	50,030	31,300	79,410	36,670	47,100	21,970	11,870	10,660	18,050	20,500	32,697
2004	21,700	38,060	15,950	10,280	12,710	13,130	13,080	9,349	26,880	14,480	42,870	44,860	21,799
2005	19,350	31,290	38,980	54,000	18,420	19,860	39,400	19,670	9,731	8,626	11,220	19,000	24,075
2006	27,430	31,160	27,310	16,120	15,410	7,498	6,006	7,263	6,033	7,944	19,140	12,660	15,235
2007	23,670	14,170	10,510	6,186	5,352	4,856	4,523	4,425	4,433	3,646	2,430	2,294	7,181
2008	6,098	18,110	21,360	15,580	13,960	5,931	4,929	12,950	6,910	6,330	7,145	27,970	12,262
2009	38,250	12,400	47,630	37,200	38,920	10,840	6,690	7,504	27,710	45,860	51,840	69,120	33,008
2010	46,500	53,850	48,680	18,670	22,450	12,670	6,599	6,276	4,807	4,622	7,063	10,770	20,074
2011	11,880	16,550	46,410	31,520	8,929	5,562	6,176	5,241	7,020	5,007	10,820	23,500	14,884
2012	29,140	20,470	26,920	7,728	6,958	5,251	4,521	6,025	5,226	6,350	7,011	19,790	12,111
2013	39,930	59,960	33,270	33,670	51,280	19,440	33,270	20,770	11,860	11,990	13,770	50,430	31,535
2014	39,060	37,570	32,300	55,070	21,030	17,600	9,321	6,070	6,320	10,670	14,780	26,140	22,870

Non-Exceedance Percentiles

02420000 - Alabama River near Montgomery, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	5,848	11,190	10,510	6,186	4,681	4,513	4,116	4,210	4,113	3,646	2,430	2,294	7,181
5th %	8,977	14,082	15,682	7,657	5,906	5,231	4,523	4,524	4,788	4,589	6,409	8,460	11,606
10th %	12,269	16,449	17,813	10,505	7,928	5,300	4,947	5,356	5,213	4,728	7,058	10,618	12,247
15th %	18,527	19,496	21,000	13,134	9,069	5,876	5,830	5,801	5,561	5,002	7,709	12,656	14,198
20th %	21,430	20,590	22,331	14,539	9,775	7,375	6,142	6,008	5,772	5,423	8,275	14,148	14,926
30th %	23,583	25,891	30,843	17,953	13,298	9,651	7,050	6,320	6,258	6,344	10,047	16,643	18,563
40th %	27,350	31,286	34,960	25,827	14,830	11,250	8,203	7,097	6,793	7,422	12,100	18,824	20,170
Median	32,339	35,527	41,585	30,571	16,622	13,057	9,549	8,207	8,453	8,468	13,225	20,360	23,388
60th %	38,506	38,592	47,444	33,115	19,464	13,603	10,741	9,550	9,379	9,921	15,789	24,743	25,252
70th %	40,512	41,180	50,120	40,933	22,999	16,300	13,251	10,844	10,829	10,721	19,281	27,858	27,126
80th %	48,444	47,906	57,527	52,756	31,758	18,054	18,745	12,678	12,351	15,004	25,756	33,728	30,730
90th %	49,732	64,046	70,789	56,230	43,020	20,176	23,721	19,780	16,767	24,522	35,570	50,502	31,907
Maximum	65,139	101,100	107,200	127,200	79,410	59,320	47,100	33,200	30,470	45,860	51,840	74,420	38,556
Average	32,717	37,200	43,465	34,612	21,716	14,542	13,177	10,191	10,216	12,256	17,762	25,812	22,726

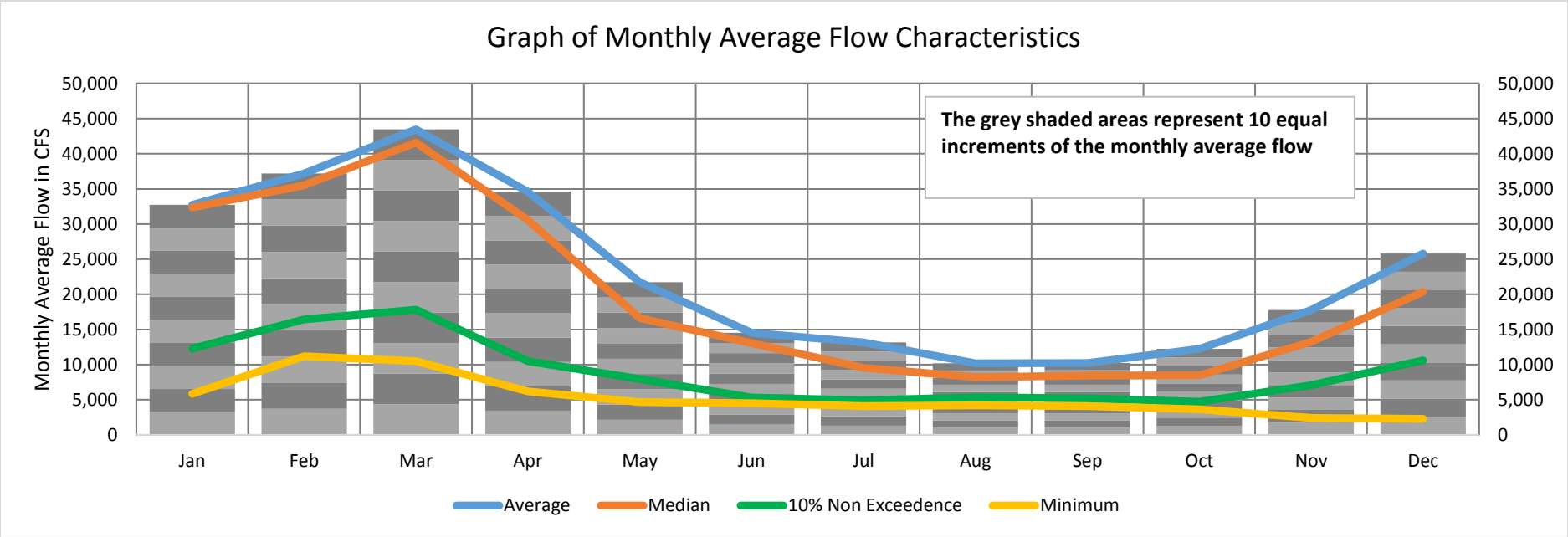
	Flows in CFS
Minimum	2,294.0
5th %	5,093
10th %	6,003
15th %	6,657
20th %	7,731
30th %	10,236
40th %	12,752
Median	16,284
60th %	20,769
70th %	28,072
80th %	37,232
90th %	49,054
Maximum	127,200
Average	22,806



Q10/Q50	0.37
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.15
Q5/DA	0.34
Q10/DA	0.40
Q15/DA	0.44
Q20/DA	0.51
Q30/DA	0.68
Q40/DA	0.85
Q50/DA	1.08
Q60/DA	1.38
Q70/DA	1.86
Q80/DA	2.47
Q90/DA	3.25
Qmax/DA	8.43

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

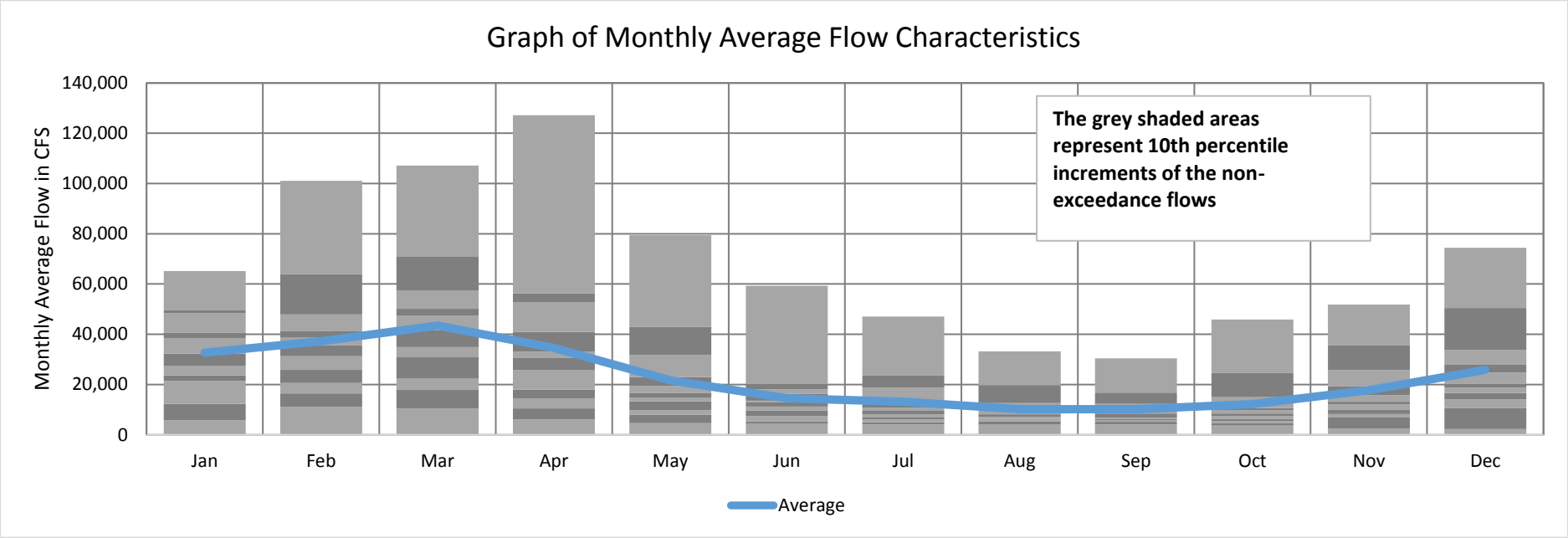
Site #: 02420000 Name: Alabama River near Montgomery, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	32,717	37,200	43,465	34,612	21,716	14,542	13,177	10,191	10,216	12,256	17,762	25,812
100%	65,139	101,100	107,200	127,200	79,410	59,320	47,100	33,200	30,470	45,860	51,840	74,420
98%	58,518	77,762	102,364	91,055	57,469	41,653	41,094	25,626	28,317	42,401	47,571	70,286
95%	53,829	69,287	82,199	79,654	43,549	35,752	38,745	22,046	26,922	41,268	43,045	59,259
90%	49,732	64,046	70,789	56,230	43,020	20,176	23,721	19,780	16,767	24,522	35,570	50,502
75%	43,584	43,410	51,219	50,218	31,320	17,381	14,041	11,840	11,863	12,188	22,604	28,118
50%	32,339	35,527	41,585	30,571	16,622	13,057	9,549	8,207	8,453	8,468	13,225	20,360
25%	22,929	21,160	27,213	15,985	10,977	7,892	6,648	6,225	6,042	5,976	9,533	15,633
10%	12,269	16,449	17,813	10,505	7,928	5,300	4,947	5,356	5,213	4,728	7,058	10,618
5%	8,977	14,082	15,682	7,657	5,906	5,231	4,523	4,524	4,788	4,589	6,409	8,460
2%	6,043	12,134	10,565	6,288	5,204	4,781	4,432	4,378	4,363	3,895	4,783	6,997
0%	5,848	11,190	10,510	6,186	4,681	4,513	4,116	4,210	4,113	3,646	2,430	2,294

Site #: 02420000 Name: Alabama River near Montgomery, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 15,087 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	32,717	37,200	43,465	34,612	21,716	14,542	13,177	10,191	10,216	12,256	17,762	25,812
100%	65,139	101,100	107,200	127,200	79,410	59,320	47,100	33,200	30,470	45,860	51,840	74,420
98%	58,518	77,762	102,364	91,055	57,469	41,653	41,094	25,626	28,317	42,401	47,571	70,286
95%	53,829	69,287	82,199	79,654	43,549	35,752	38,745	22,046	26,922	41,268	43,045	59,259
90%	49,732	64,046	70,789	56,230	43,020	20,176	23,721	19,780	16,767	24,522	35,570	50,502
75%	43,584	43,410	51,219	50,218	31,320	17,381	14,041	11,840	11,863	12,188	22,604	28,118
50%	32,339	35,527	41,585	30,571	16,622	13,057	9,549	8,207	8,453	8,468	13,225	20,360
25%	22,929	21,160	27,213	15,985	10,977	7,892	6,648	6,225	6,042	5,976	9,533	15,633
10%	12,269	16,449	17,813	10,505	7,928	5,300	4,947	5,356	5,213	4,728	7,058	10,618
5%	8,977	14,082	15,682	7,657	5,906	5,231	4,523	4,524	4,788	4,589	6,409	8,460
2%	6,043	12,134	10,565	6,288	5,204	4,781	4,432	4,378	4,363	3,895	4,783	6,997
0%	5,848	11,190	10,510	6,186	4,681	4,513	4,116	4,210	4,113	3,646	2,430	2,294

Monthly Flows (in CFS) for
02421000 - Catoma Creek near Montgomery, Ala.

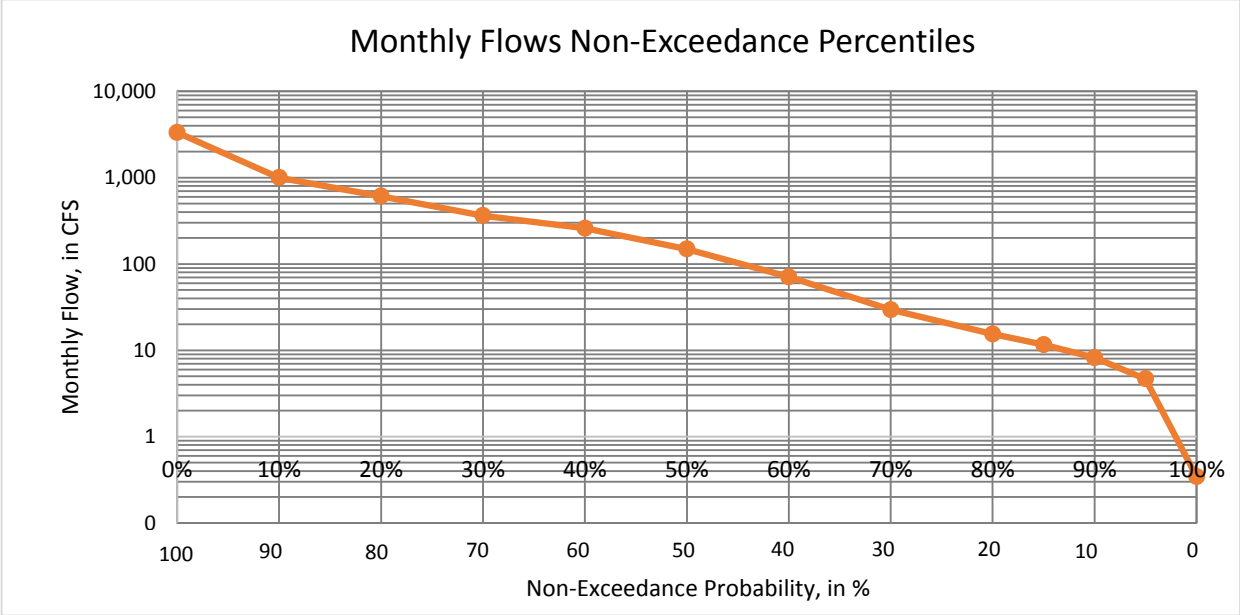
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,190	3,119	1,400	903	277	292	236	511	958	867	221	462	854
1976	999	350	1,209	719	1,400	290	38	18	15	6	181	603	489
1977	716	424	1,790	265	12	8	20	40	40	24	224	71	304
1978	1,168	292	560	363	1,505	132	9	32	4	0	7	79	349
1979	528	1,719	1,112	1,748	97	119	148	60	46	6	69	169	475
1980	415	505	1,751	1,063	743	23	11	2	3	10	7	7	378
1981	10	636	278	468	80	13	20	8	3	3	2	154	136
1982	407	1,665	544	755	79	19	40	104	2	5	134	753	366
1983	741	1,193	1,445	1,256	78	276	212	11	194	9	444	1,046	571
1984	659	434	647	184	171	7	11	566	21	3	8	193	242
1985	156	1,200	235	113	69	14	295	36	12	42	56	524	223
1986	293	1,009	1,808	33	15	9	12	16	19	9	281	177	303
1987	961	941	687	139	62	147	74	24	7	3	20	30	254
1988	346	529	407	294	24	10	275	24	498	177	484	173	267
1989	732	319	1,000	1,202	134	2,417	944	45	16	58	299	831	666
1990	1,435	1,545	2,479	252	211	21	12	3	1	2	4	13	494
1991	149	300	1,111	289	609	152	230	13	11	2	65	167	259
1992	1,077	1,283	367	315	20	57	159	109	12	9	1,007	898	437
1993	728	611	968	506	36	23	22	303	12	24	239	362	318
1994	571	1,054	689	239	23	190	1,710	83	21	76	116	396	429
1995	408	842	798	147	13	8	6	11	1	698	128	823	322
1996	982	599	1,986	474	286	33	230	110	302	22	33	303	448
1997	930	1,379	481	579	177	300	81	24	8	33	454	1,277	471
1998	905	1,571	1,417	185	61	18	28	12	184	299	10	18	386
1999	308	460	593	160	75	425	287	30	4	24	19	70	203
2000	259	90	363	108	7	10	7	7	21	2	57	348	107
2001	373	475	3,329	581	51	156	122	98	29	15	31	81	447
2002	207	374	660	112	13	21	25	12	21	35	286	427	182
2003	228	741	764	1,294	404	429	713	348	73	30	179	333	459
2004	309	950	94	43	79	192	40	57	865	21	350	256	265
2005	213	755	1,894	1,379	90	43	355	172	35	30	50	80	422
2006	268	729	311	51	304	26	8	13	14	15	200	23	160
2007	306	276	529	126	5	2	12	17	21	11	12	17	111
2008	296	422	299	245	43	21	73	1,120	30	16	62	252	240
2009	260	109	1,979	655	620	81	38	19	227	291	911	1,960	601
2010	1,415	756	851	44	182	30	29	10	4	3	12	8	278
2011	19	345	620	148	14	8	18	12	15	3	27	118	111
2012	161	471	198	138	205	147	6	6	11	8	5	98	119
2013	89	2,606	485	554	50	45	705	111	7	2	9	582	422
2014	327	910	768	1,936	499	298	25	32	8	10	4	108	405

Non-Exceedance Percentiles

02421000 - Catoma Creek near Montgomery, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	10	90	94	33	5	2	6	2	1	0	2	7	107
5th %	85	268	233	44	12	8	7	6	2	2	4	12	111
10th %	156	299	296	102	13	8	9	8	3	2	6	18	134
15th %	200	341	355	113	15	9	11	11	4	3	8	29	179
20th %	225	369	399	135	22	13	12	12	7	3	10	71	219
30th %	285	452	539	156	48	20	20	13	10	6	20	93	258
40th %	309	520	636	243	66	23	27	18	12	9	43	162	293
Median	390	683	726	291	79	38	39	27	16	13	64	185	336
60th %	545	790	898	470	112	96	77	38	21	21	130	315	393
70th %	729	968	1,141	580	189	149	175	67	29	26	206	405	431
80th %	936	1,217	1,506	785	289	209	243	109	51	37	282	586	461
90th %	1,086	1,580	1,903	1,260	610	298	390	307	234	188	445	837	502
Maximum	1,435	3,119	3,329	1,936	1,505	2,417	1,710	1,120	958	867	1,007	1,960	854
Average	539	850	973	502	221	163	182	106	94	73	168	357	349

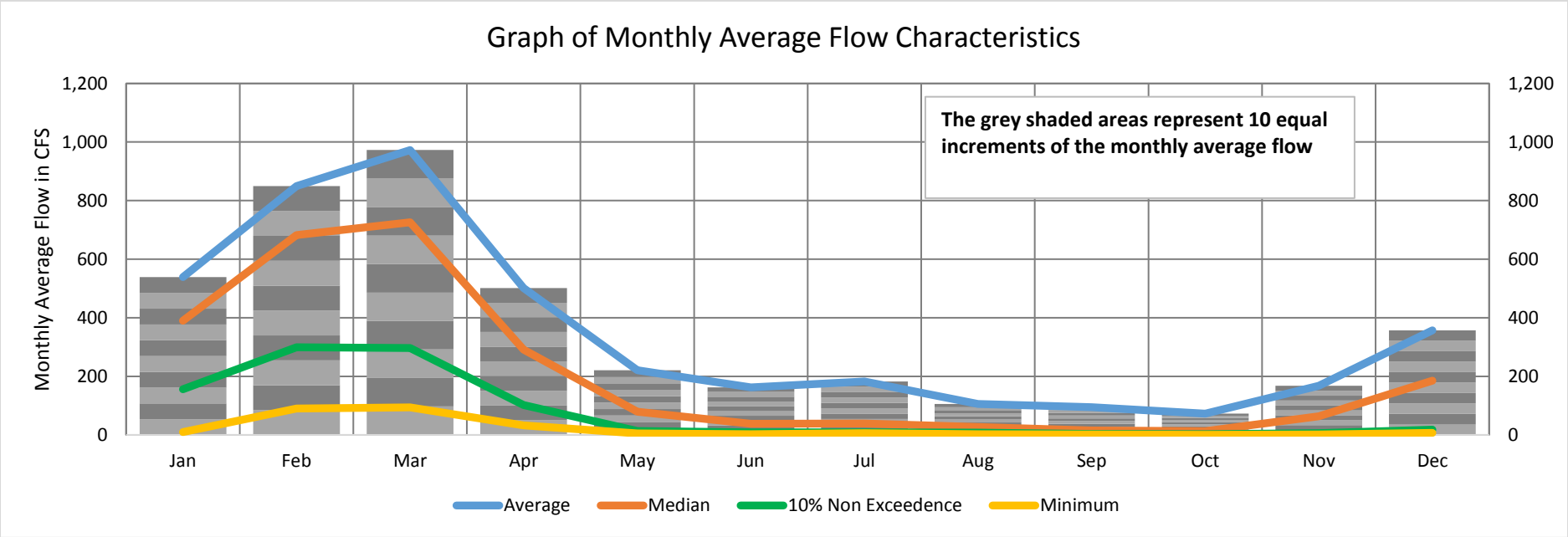
	Flows in CFS
Minimum	0.3
5th %	5
10th %	8
15th %	12
20th %	15
30th %	29
40th %	71
Median	149
60th %	259
70th %	363
80th %	609
90th %	999
Maximum	3,329
Average	352



Q10/Q50	0.06
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.02
Q10/DA	0.03
Q15/DA	0.04
Q20/DA	0.05
Q30/DA	0.10
Q40/DA	0.24
Q50/DA	0.51
Q60/DA	0.89
Q70/DA	1.25
Q80/DA	2.10
Q90/DA	3.45
Qmax/DA	11.48

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

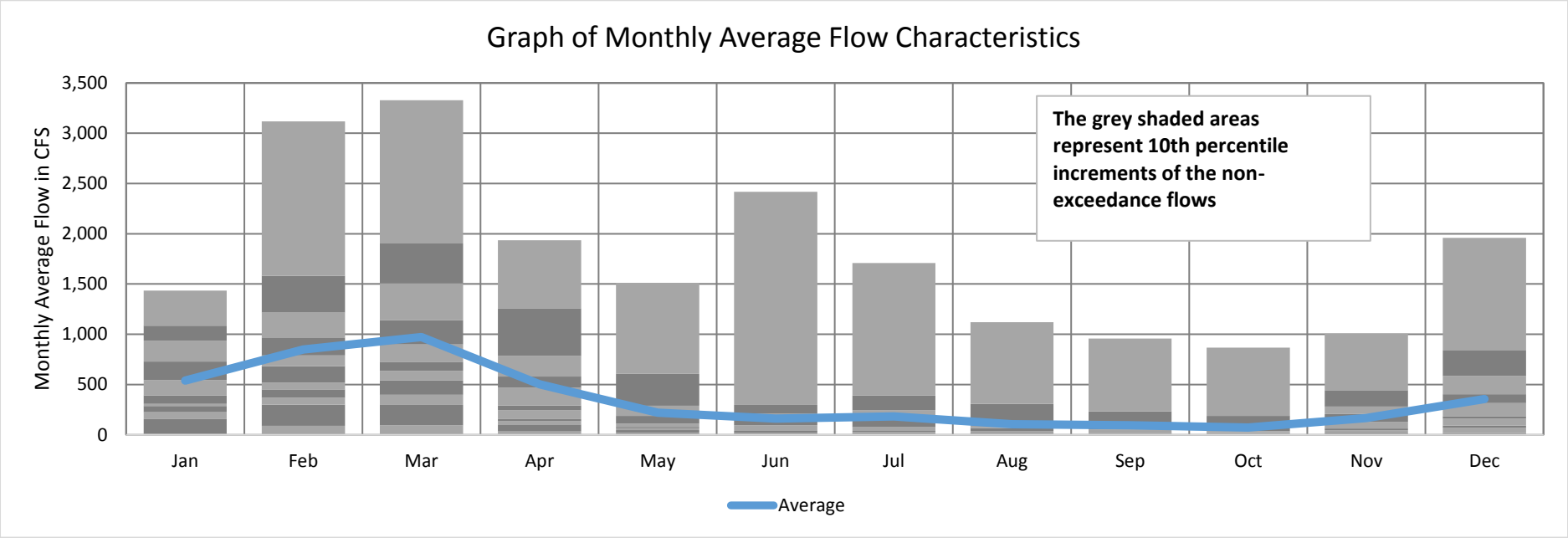
Site #: 02421000 Name: Catoma Creek near Montgomery, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	539	850	973	502	221	163	182	106	94	73	168	357
100%	1,435	3,119	3,329	1,936	1,505	2,417	1,710	1,120	958	867	1,007	1,960
98%	1,419	2,719	2,666	1,789	1,423	866	1,112	688	885	735	932	1,427
95%	1,201	1,763	2,011	1,397	776	425	725	513	516	319	505	1,058
90%	1,086	1,580	1,903	1,260	610	298	390	307	234	188	445	837
75%	782	1,089	1,404	671	228	164	230	99	36	31	228	477
50%	390	683	726	291	79	38	39	27	16	13	64	185
25%	260	424	484	145	33	17	17	12	7.5	4.4	12	80
10%	156	299	296	102	13	8.4	8.8	7.7	3.2	2.4	6.5	18
5%	85	268	233	44	12	8.1	6.6	6.1	2.4	2.4	4.5	12
2%	17	105	175	40	6.7	5.6	6.1	2.9	1.4	1.7	3.5	7.9
0%	10	90	94	33	5.0	2.1	5.9	2.3	1.3	0.3	1.6	7.3

Site #: 02421000 Name: Catoma Creek near Montgomery, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 290 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	539	850	973	502	221	163	182	106	94	73	168	357
100%	1,435	3,119	3,329	1,936	1,505	2,417	1,710	1,120	958	867	1,007	1,960
98%	1,419	2,719	2,666	1,789	1,423	866	1,112	688	885	735	932	1,427
95%	1,201	1,763	2,011	1,397	776	425	725	513	516	319	505	1,058
90%	1,086	1,580	1,903	1,260	610	298	390	307	234	188	445	837
75%	782	1,089	1,404	671	228	164	230	99	36	31	228	477
50%	390	683	726	291	79	38	39	27	16	13	64	185
25%	260	424	484	145	33	17	17	12	7.5	4.4	12	80
10%	156	299	296	102	13	8.4	8.8	7.7	3.2	2.4	6.5	18
5%	85	268	233	44	12	8.1	6.6	6.1	2.4	2.4	4.5	12
2%	17	105	175	40	6.7	5.6	6.1	2.9	1.4	1.7	3.5	7.9
0%	10	90	94	33	5.0	2.1	5.9	2.3	1.3	0.3	1.6	7.3

Monthly Flows (in CFS) for
02421115 - Pintlalla Creek near Pintlalla, Ala.

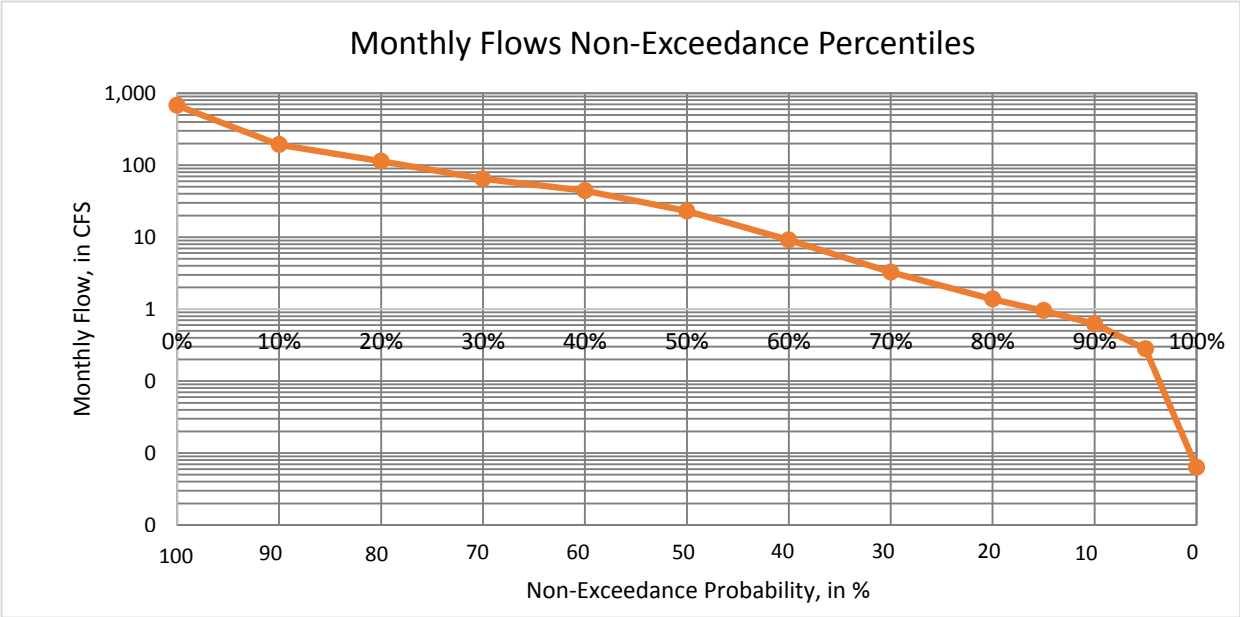
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	232	621	275	173	47	50	39	93	185	166	36	84	164
1976	193	61	236	136	275	50	4	2	1	0	29	112	92
1977	135	76	355	45	1	1	2	5	5	2	37	10	56
1978	228	50	103	64	297	20	1	4	0	0	1	11	65
1979	97	340	216	346	14	18	23	8	5	0	9	27	90
1980	74	92	347	206	141	2	1	0	0	1	0	1	72
1981	1	119	47	85	11	1	2	1	0	0	0	24	23
1982	73	329	100	143	11	2	5	15	0	0	20	143	68
1983	140	233	284	246	11	47	35	1	31	1	80	203	108
1984	123	78	121	29	27	0	1	105	2	0	1	31	43
1985	24	234	39	17	9	1	51	4	1	5	7	96	40
1986	50	195	358	4	1	1	1	1	2	1	48	28	57
1987	185	181	129	21	8	23	10	2	1	0	2	3	46
1988	61	97	73	50	2	1	47	2	91	28	88	27	47
1989	138	55	193	235	20	481	182	5	1	7	51	158	127
1990	282	305	494	42	35	2	1	0	0	0	0	1	96
1991	23	52	216	49	113	24	38	1	1	0	9	26	46
1992	209	251	65	55	2	7	25	16	1	1	195	172	82
1993	137	114	187	93	4	2	2	52	1	2	40	64	58
1994	106	204	129	40	2	31	338	11	2	10	17	70	80
1995	73	161	152	23	1	1	0	1	0	131	19	157	60
1996	189	111	394	86	49	4	38	16	52	2	4	52	83
1997	179	271	87	107	28	52	11	2	1	4	82	250	88
1998	174	310	279	30	8	2	3	1	29	29	5	5	71
1999	65	53	111	45	41	93	50	3	0	2	1	5	39
2000	20	14	68	10	1	1	0	1	1	0	4	70	16
2001	88	86	676	113	6	51	18	9	8	1	3	11	90
2002	34	66	124	16	1	2	3	1	2	4	49	77	31
2003	38	140	145	253	72	77	135	61	10	3	29	58	85
2004	53	183	13	5	11	31	5	7	165	2	61	43	47
2005	35	143	376	271	13	5	62	27	4	3	6	11	79
2006	45	138	54	6	52	3	1	1	1	1	32	2	27
2007	53	47	97	19	0	0	1	2	2	1	1	2	19
2008	51	76	51	41	5	2	10	218	3	1	8	42	42
2009	44	16	393	123	116	11	4	2	37	50	175	389	114
2010	278	143	163	5	29	3	3	1	0	0	1	1	52
2011	2	60	116	23	1	1	2	1	1	0	3	17	19
2012	25	85	32	21	33	23	0	0	1	1	0	14	19
2013	12	519	88	102	6	5	133	16	0	0	1	108	80
2014	57	175	146	384	91	51	3	4	1	1	0	16	76

Non-Exceedance Percentiles

02421115 - Pintlalla Creek near Pintlalla, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1	14	13	4	0	0	0	0	0	0	0	1	16
5th %	12	45	39	5	1	1	0	0	0	0	0	1	19
10th %	23	51	51	9	1	1	1	1	0	0	0	2	23
15th %	25	55	63	17	1	1	1	1	0	0	1	5	31
20th %	35	61	72	21	2	1	1	1	0	0	1	9	39
30th %	49	78	99	27	6	2	2	1	1	0	3	13	46
40th %	56	95	119	42	9	2	3	2	1	1	5	25	55
Median	73	128	137	50	11	4	5	3	1	1	8	30	63
60th %	100	150	172	85	23	14	10	4	2	2	20	55	74
70th %	138	187	222	109	34	23	28	8	3	3	34	72	80
80th %	180	238	297	149	50	47	41	16	9	4	48	109	89
90th %	211	312	377	246	114	51	69	53	39	28	80	160	97
Maximum	282	621	676	384	297	481	338	218	185	166	195	389	164
Average	101	162	188	94	40	29	32	18	16	12	29	66	65

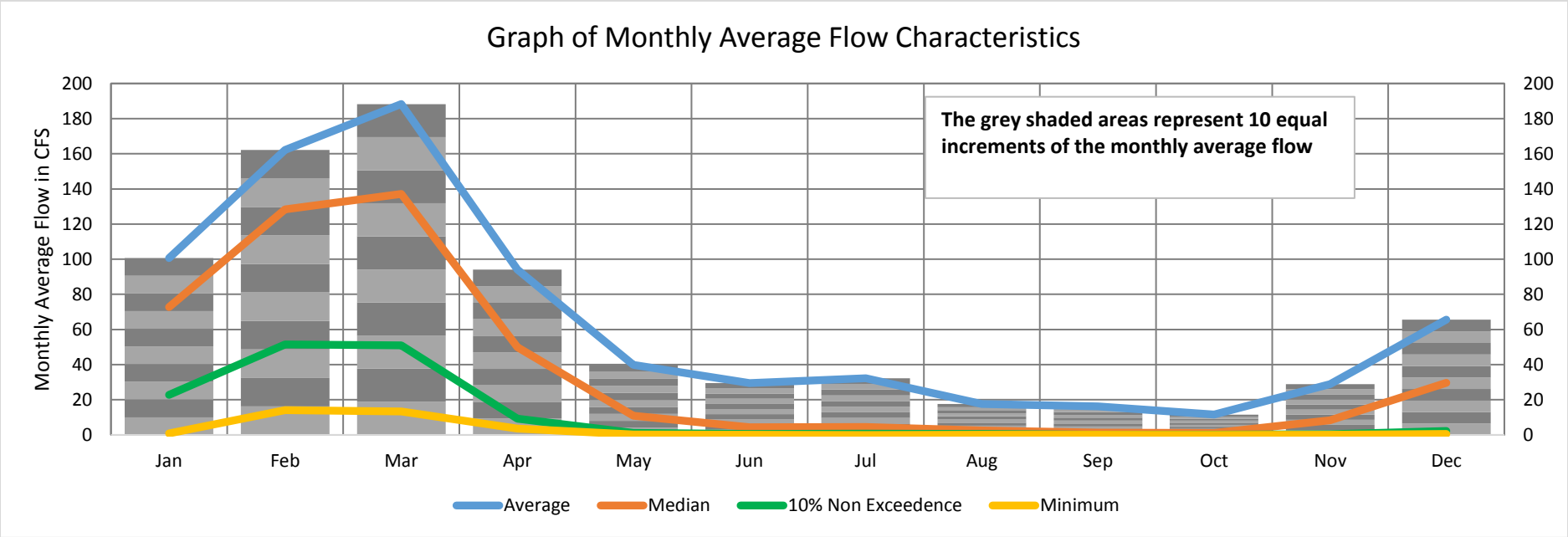
	Flows in CFS
Minimum	0.0
5th %	0
10th %	1
15th %	1
20th %	1
30th %	3
40th %	9
Median	23
60th %	44
70th %	65
80th %	113
90th %	193
Maximum	676
Average	66



Q10/Q50	0.03
Q10/Q90	0.00
	CFSM*
Qmin/DA	0.00
Q5/DA	0.00
Q10/DA	0.01
Q15/DA	0.02
Q20/DA	0.02
Q30/DA	0.06
Q40/DA	0.15
Q50/DA	0.39
Q60/DA	0.75
Q70/DA	1.09
Q80/DA	1.91
Q90/DA	3.25
Qmax/DA	11.40

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

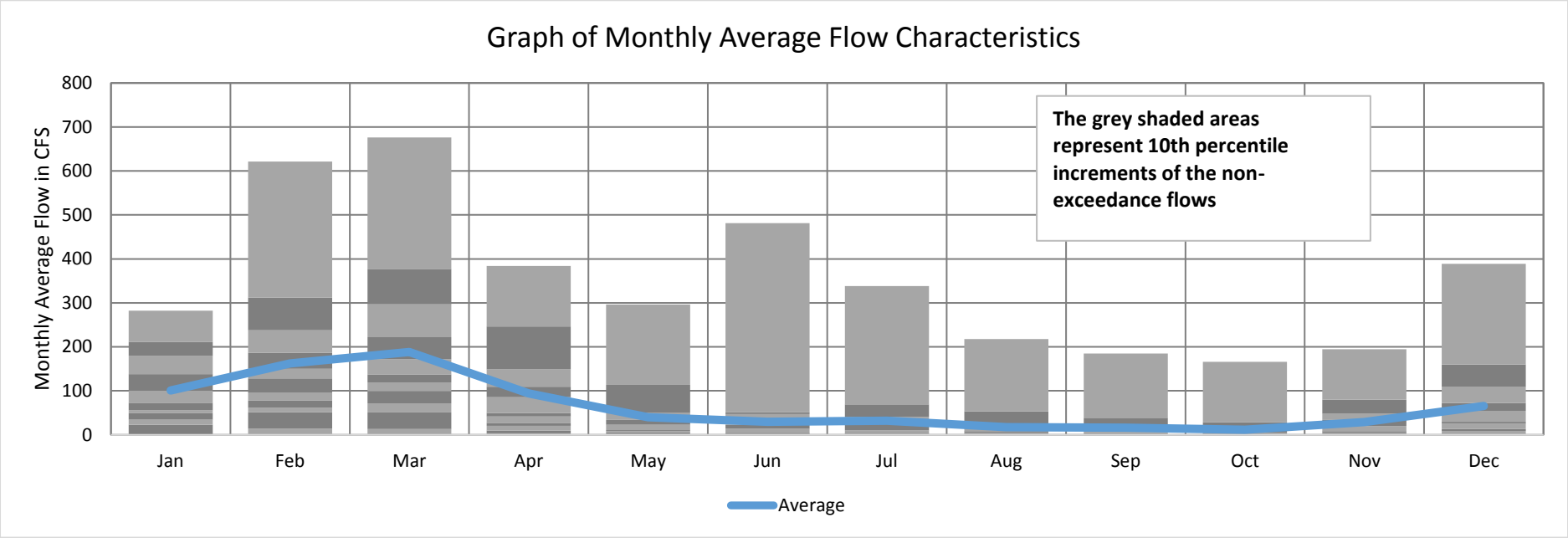
Site #: 02421115 Name: Pintlalla Creek near Pintlalla, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	101	162	188	94	40	29	32	18	16	12	29	66
100%	282	621	676	384	297	481	338	218	185	166	195	389
98%	279	542	534	354	280	178	216	130	170	139	179	281
95%	234	349	399	275	147	78	137	94	95	54	92	205
90%	211	312	377	246	114	51	69	53	39	28	80	160
75%	149	211	276	126	42	31	38	12	4.9	3.4	38	87
50%	73	128	137	50	11	4.4	4.5	2.6	1.4	1.1	8.3	30
25%	42	73	88	22	3.7	1.6	1.5	1.0	0.5	0.3	1.0	11
10%	23	51	51	9.2	1.1	0.6	0.7	0.6	0.2	0.1	0.4	2.2
5%	12	45	39	5.3	1.0	0.6	0.4	0.4	0.1	0.1	0.3	1.0
2%	1.6	16	28	4.8	0.7	0.4	0.3	0.1	0.1	0.1	0.2	0.6
0%	0.8	14	13	3.6	0.3	0.1	0.0	0.1	0.0	0.0	0.1	0.5

Site #: 02421115 Name: Pintlalla Creek near Pintlalla, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 59 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	101	162	188	94	40	29	32	18	16	12	29	66
100%	282	621	676	384	297	481	338	218	185	166	195	389
98%	279	542	534	354	280	178	216	130	170	139	179	281
95%	234	349	399	275	147	78	137	94	95	54	92	205
90%	211	312	377	246	114	51	69	53	39	28	80	160
75%	149	211	276	126	42	31	38	12	4.9	3.4	38	87
50%	73	128	137	50	11	4.4	4.5	2.6	1.4	1.1	8.3	30
25%	42	73	88	22	3.7	1.6	1.5	1.0	0.5	0.3	1.0	11
10%	23	51	51	9.2	1.1	0.6	0.7	0.6	0.2	0.1	0.4	2.2
5%	12	45	39	5.3	1.0	0.6	0.4	0.4	0.1	0.1	0.3	1.0
2%	1.6	16	28	4.8	0.7	0.4	0.3	0.1	0.1	0.1	0.2	0.6
0%	0.8	14	13	3.6	0.3	0.1	0.0	0.1	0.0	0.0	0.1	0.5

Monthly Flows (in CFS) for

02422000 - Big Swamp Creek near Lowndesboro, Ala.

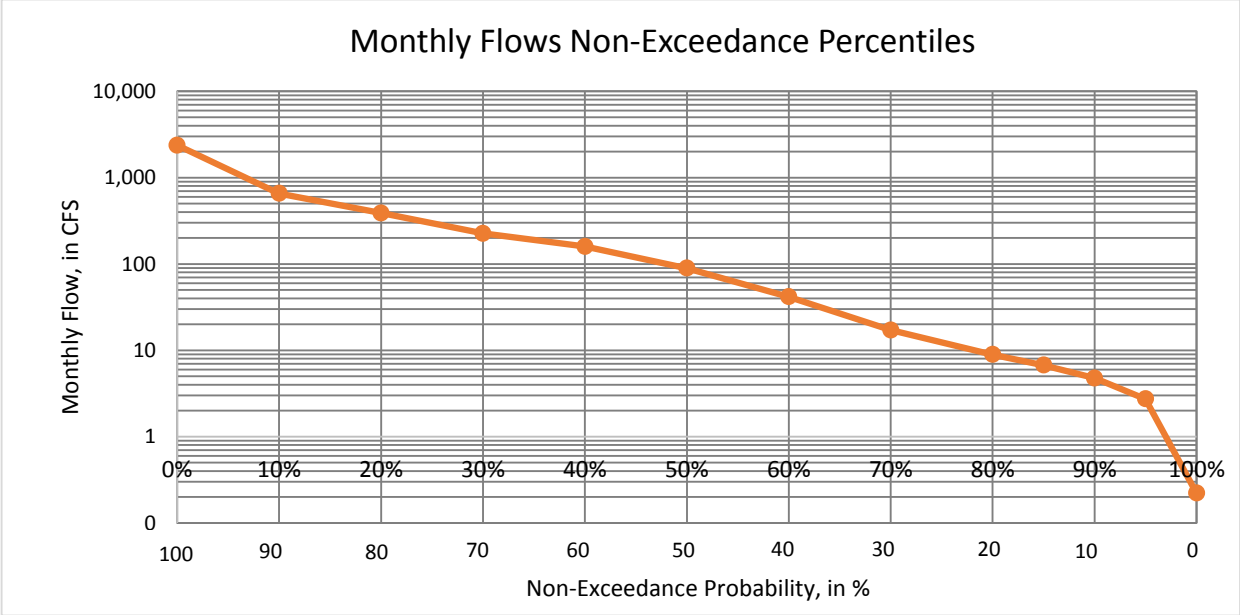
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	789	2,210	938	588	170	180	144	323	627	564	135	291	569
1976	655	217	802	463	938	179	22	10	9	3	109	385	318
1977	460	266	1,218	163	7	5	12	23	23	14	136	42	198
1978	773	180	356	226	1,013	79	5	19	2	0	4	47	227
1979	334	1,167	734	1,188	57	71	89	35	27	4	40	102	314
1980	260	319	1,190	700	479	14	6	1	2	6	4	4	249
1981	6	407	171	294	47	8	11	5	2	2	1	93	85
1982	254	1,128	345	487	46	11	23	62	1	3	80	486	238
1983	478	791	970	835	46	169	129	7	118	5	279	688	373
1984	422	272	414	111	103	4	6	360	12	2	5	117	153
1985	94	796	144	67	41	8	182	21	7	25	33	332	142
1986	180	662	1,232	19	9	5	7	9	11	5	173	107	199
1987	629	615	441	84	36	88	43	14	4	2	12	18	163
1988	215	335	254	181	14	6	169	14	314	107	305	104	166
1989	472	197	656	797	80	1,680	617	26	9	34	184	539	440
1990	963	1,041	1,727	154	128	12	7	2	1	1	2	7	335
1991	90	185	733	178	388	91	140	7	6	1	38	101	164
1992	710	854	228	195	11	33	96	65	7	5	661	585	284
1993	469	390	634	320	21	13	13	187	7	14	146	225	202
1994	363	693	442	146	13	115	1,160	49	12	45	69	247	278
1995	255	547	517	89	8	5	4	7	1	449	76	534	206
1996	643	382	1,362	298	176	19	140	65	186	13	19	187	292
1997	607	923	303	369	107	185	48	14	4	19	285	850	306
1998	590	1,060	950	112	36	11	16	7	111	184	6	11	253
1999	190	289	378	96	44	266	177	18	2	14	11	41	126
2000	159	53	226	64	4	6	4	4	12	1	33	216	66
2001	232	299	2,370	370	30	94	73	58	17	9	18	48	303
2002	126	233	423	67	8	12	14	7	12	20	176	268	113
2003	139	478	493	862	253	269	459	216	43	17	108	206	293
2004	191	621	56	25	47	116	23	34	562	12	217	157	167
2005	130	487	1,294	923	53	25	221	104	20	17	29	47	278
2006	165	469	192	30	188	15	5	8	8	9	121	13	99
2007	189	170	335	75	3	1	7	10	12	6	7	10	68
2008	182	264	184	150	25	12	43	740	18	9	36	154	152
2009	159	65	1,356	420	396	48	22	11	138	179	594	1,343	398
2010	948	488	553	26	110	17	17	6	2	2	7	5	181
2011	11	214	396	89	8	5	10	7	9	2	16	70	69
2012	97	297	120	82	124	88	3	4	7	5	3	58	72
2013	52	1,822	305	352	29	26	453	66	4	1	5	370	280
2014	203	593	496	1,325	315	184	15	19	4	6	3	64	265

Non-Exceedance Percentiles

02422000 - Big Swamp Creek near Lowndesboro, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	6	53	56	19	3	1	3	1	1	0	1	4	66
5th %	50	164	142	26	7	5	4	4	1	1	3	7	69
10th %	94	185	183	61	8	5	5	4	2	1	4	11	83
15th %	121	211	221	67	9	5	6	6	2	2	5	17	111
20th %	137	230	249	81	13	7	7	7	4	2	6	42	139
30th %	176	284	342	94	28	12	12	8	6	4	11	55	164
40th %	191	329	407	148	39	13	16	10	7	5	25	97	191
Median	243	438	468	180	47	22	23	16	9	7	37	112	217
60th %	346	511	585	296	67	57	45	22	12	12	78	195	258
70th %	469	633	754	369	114	89	106	39	17	15	125	253	281
80th %	611	808	1,014	507	178	127	149	65	30	21	173	373	304
90th %	716	1,067	1,301	838	389	184	244	190	143	114	279	543	338
Maximum	963	2,210	2,370	1,325	1,013	1,680	1,160	740	627	564	661	1,343	569
Average	347	562	648	325	140	104	116	66	59	45	105	229	227

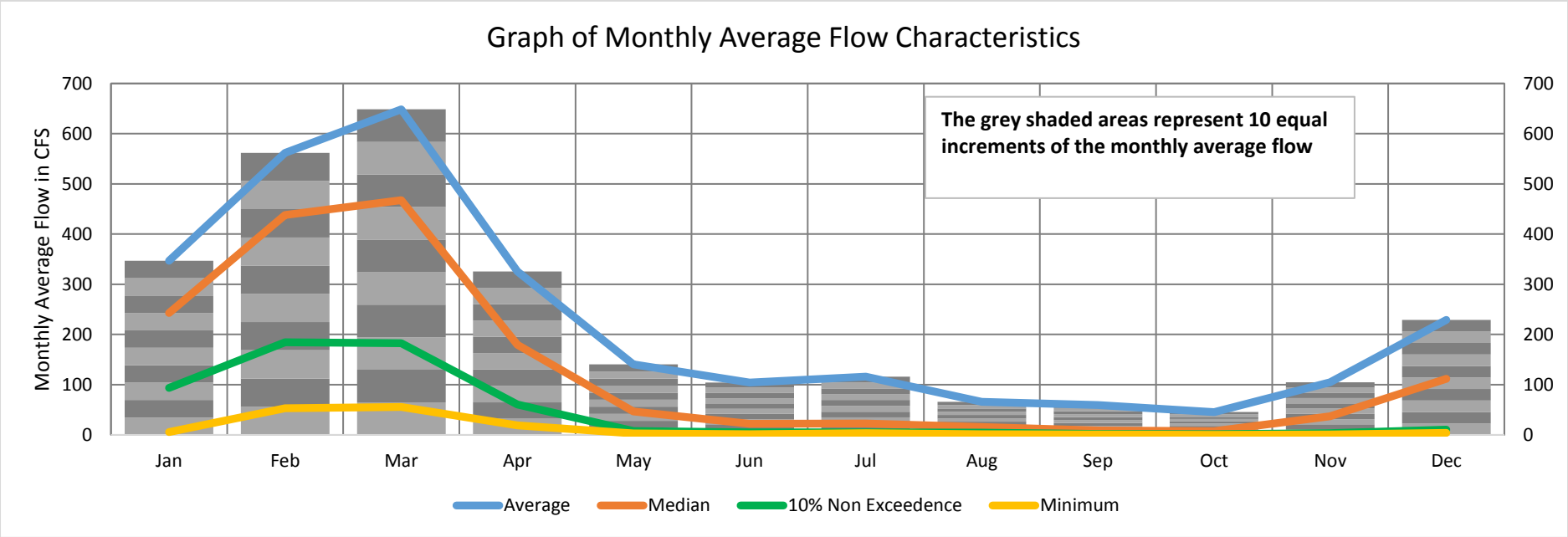
	Flows in CFS
Minimum	0.2
5th %	3
10th %	5
15th %	7
20th %	9
30th %	17
40th %	42
Median	89
60th %	159
70th %	226
80th %	389
90th %	655
Maximum	2,370
Average	229



Q10/Q50	0.05
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.01
Q10/DA	0.02
Q15/DA	0.03
Q20/DA	0.04
Q30/DA	0.07
Q40/DA	0.17
Q50/DA	0.37
Q60/DA	0.65
Q70/DA	0.93
Q80/DA	1.59
Q90/DA	2.69
Qmax/DA	9.71

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

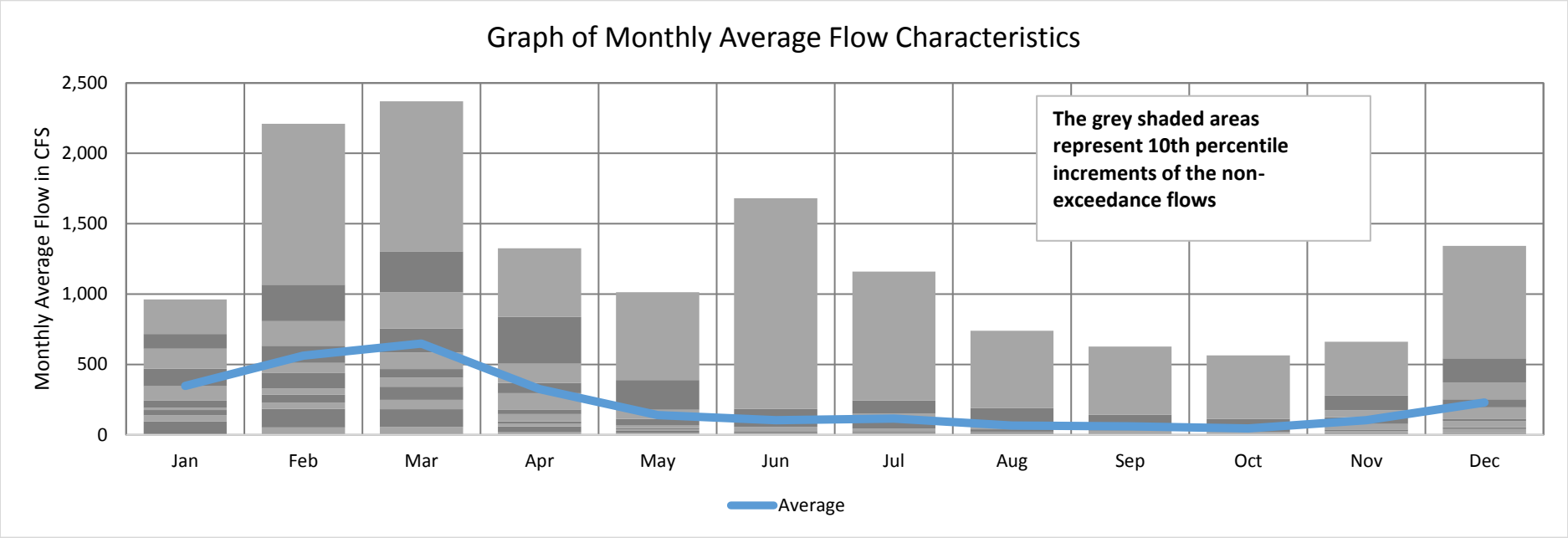
Site #: 02422000 Name: Big Swamp Creek near Lowndesboro, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	347	562	648	325	140	104	116	66	59	45	105	229
100%	963	2,210	2,370	1,325	1,013	1,680	1,160	740	627	564	661	1,343
98%	951	1,907	1,868	1,218	954	579	736	443	577	474	609	959
95%	797	1,200	1,380	936	502	266	467	325	326	197	320	696
90%	716	1,067	1,301	838	389	184	244	190	143	114	279	543
75%	506	718	941	430	139	99	140	59	21	18	139	301
50%	243	438	468	180	47	22	23	16	9.0	7.5	37	112
25%	159	265	305	87	19	9.9	9.6	7.0	4.4	2.6	7.0	47
10%	94	185	183	61	7.6	4.9	5.1	4.5	1.9	1.4	3.8	11
5%	50	164	142	26	7.0	4.7	3.8	3.5	1.4	1.4	2.6	7.2
2%	9.7	62	106	24	3.9	3.3	3.5	1.7	0.8	1.0	2.1	4.6
0%	5.8	53	56	19	2.9	1.2	3.4	1.3	0.8	0.2	1.0	4.2

Site #: 02422000 Name: Big Swamp Creek near Lowndesboro, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 244 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	347	562	648	325	140	104	116	66	59	45	105	229
100%	963	2,210	2,370	1,325	1,013	1,680	1,160	740	627	564	661	1,343
98%	951	1,907	1,868	1,218	954	579	736	443	577	474	609	959
95%	797	1,200	1,380	936	502	266	467	325	326	197	320	696
90%	716	1,067	1,301	838	389	184	244	190	143	114	279	543
75%	506	718	941	430	139	99	140	59	21	18	139	301
50%	243	438	468	180	47	22	23	16	9.0	7.5	37	112
25%	159	265	305	87	19	9.9	9.6	7.0	4.4	2.6	7.0	47
10%	94	185	183	61	7.6	4.9	5.1	4.5	1.9	1.4	3.8	11
5%	50	164	142	26	7.0	4.7	3.8	3.5	1.4	1.4	2.6	7.2
2%	9.7	62	106	24	3.9	3.3	3.5	1.7	0.8	1.0	2.1	4.6
0%	5.8	53	56	19	2.9	1.2	3.4	1.3	0.8	0.2	1.0	4.2

Monthly Flows (in CFS) for
02422500 - Mulberry Creek at Jones, Ala.

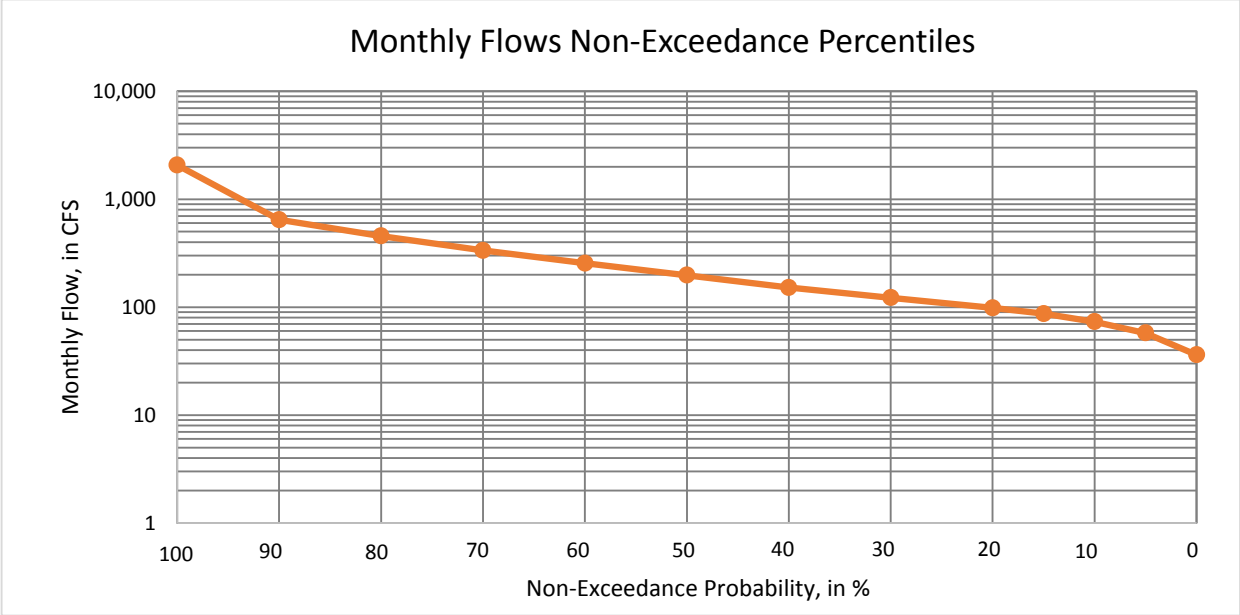
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	749	1,003	809	1,462	428	247	468	483	250	434	268	365	577
1976	870	389	1,344	605	636	213	273	207	184	117	173	327	447
1977	509	536	1,032	566	152	108	111	92	111	127	184	178	308
1978	547	332	411	373	599	150	89	86	70	57	75	136	244
1979	413	482	1,107	2,070	316	178	201	112	172	106	192	176	458
1980	422	388	1,251	886	670	233	169	112	123	153	115	111	387
1981	111	489	396	650	230	87	103	118	80	89	79	174	215
1982	549	834	349	668	273	256	265	162	85	107	182	645	361
1983	386	898	821	1,354	651	323	186	124	165	113	325	679	498
1984	516	503	533	444	311	121	175	256	82	171	251	349	309
1985	216	581	292	248	199	127	216	126	78	98	108	144	200
1986	132	168	137	87	146	70	57	51	66	69	652	461	174
1987	557	616	613	322	208	144	130	68	72	54	97	150	250
1988	319	342	190	200	108	50	151	49	204	138	257	197	182
1989	326	234	823	568	168	584	306	114	100	108	149	297	315
1990	850	1,350	1,389	458	336	143	122	70	52	64	90	128	416
1991	245	426	456	453	1,014	405	239	117	139	89	164	255	333
1992	327	627	423	275	129	91	131	177	190	106	544	675	306
1993	889	539	485	375	208	131	122	166	98	78	198	188	289
1994	181	478	620	353	147	150	233	125	102	102	133	298	242
1995	338	603	627	328	147	97	62	54	72	225	321	453	275
1996	521	593	724	323	192	136	122	98	132	112	118	296	279
1997	591	559	480	394	273	305	210	189	94	108	186	326	308
1998	952	1,008	750	369	191	165	146	81	122	96	117	147	342
1999	456	312	386	161	70	195	234	86	63	100	98	129	190
2000	236	175	256	404	106	73	39	41	36	37	101	99	133
2001	155	392	1,083	393	95	212	87	106	128	88	100	216	254
2002	325	344	330	185	109	76	84	52	122	89	255	504	205
2003	236	513	532	584	753	888	824	302	145	142	255	259	452
2004	336	528	240	210	150	154	96	110	228	112	363	370	239
2005	278	559	685	761	260	314	685	296	167	117	153	204	372
2006	365	453	367	218	233	88	80	77	69	77	218	191	202
2007	381	236	166	127	61	53	58	38	39	41	50	66	109
2008	114	335	263	242	128	58	38	152	80	50	50	90	132
2009	207	229	818	410	463	154	158	145	549	385	710	962	434
2010	807	805	807	319	244	150	96	82	48	69	115	149	305
2011	198	370	811	397	158	84	66	43	58	49	83	118	202
2012	266	280	590	216	128	84	81	99	203	71	69	250	195
2013	449	847	437	440	218	102	253	167	88	97	118	428	301
2014	309	394	575	764	271	171	124	69	58	87	83	222	259

Non-Exceedance Percentiles

02422500 - Mulberry Creek at Jones, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	111	168	137	87	61	50	38	38	36	37	50	66	109
5th %	131	226	189	160	94	57	56	43	48	49	68	99	133
10th %	178	236	254	198	107	73	62	51	57	53	78	117	182
15th %	206	307	288	215	125	83	78	54	62	63	83	129	194
20th %	232	334	346	237	129	87	83	68	68	69	96	142	201
30th %	274	383	406	321	149	101	96	82	76	84	106	167	232
40th %	326	414	470	363	181	129	122	96	84	89	118	190	253
Median	351	486	554	394	208	147	130	111	99	99	151	219	284
60th %	416	531	622	422	237	154	162	117	122	107	182	274	306
70th %	511	565	767	490	273	183	204	132	134	112	204	326	320
80th %	551	618	819	614	354	236	235	166	168	119	256	382	375
90th %	811	852	1,085	777	637	315	276	211	203	155	328	518	447
Maximum	952	1,350	1,389	2,070	1,014	888	824	483	549	434	710	962	577
Average	416	519	610	492	279	184	182	127	123	113	195	285	292

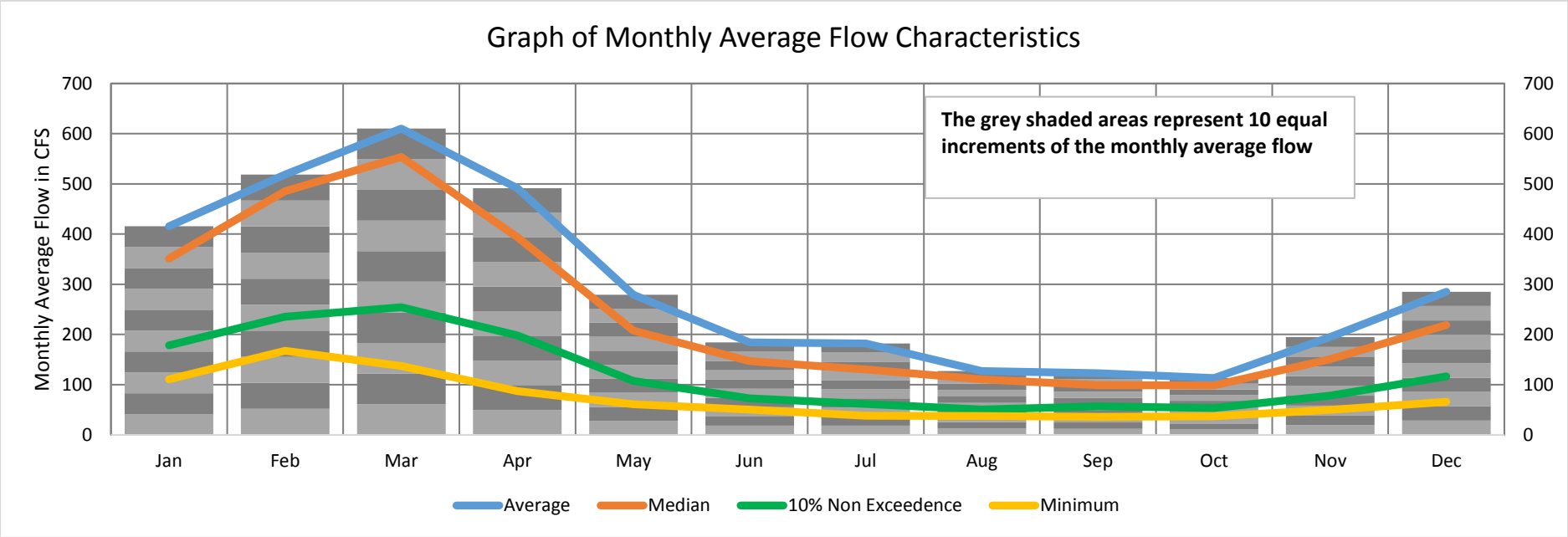
	Flows in CFS
Minimum	36.1
5th %	58
10th %	73
15th %	87
20th %	98
30th %	122
40th %	152
Median	198
60th %	255
70th %	335
80th %	456
90th %	645
Maximum	2,070
Average	294



Q10/Q50	0.37
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.18
Q5/DA	0.28
Q10/DA	0.36
Q15/DA	0.43
Q20/DA	0.48
Q30/DA	0.60
Q40/DA	0.75
Q50/DA	0.97
Q60/DA	1.26
Q70/DA	1.65
Q80/DA	2.25
Q90/DA	3.18
Qmax/DA	10.20

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

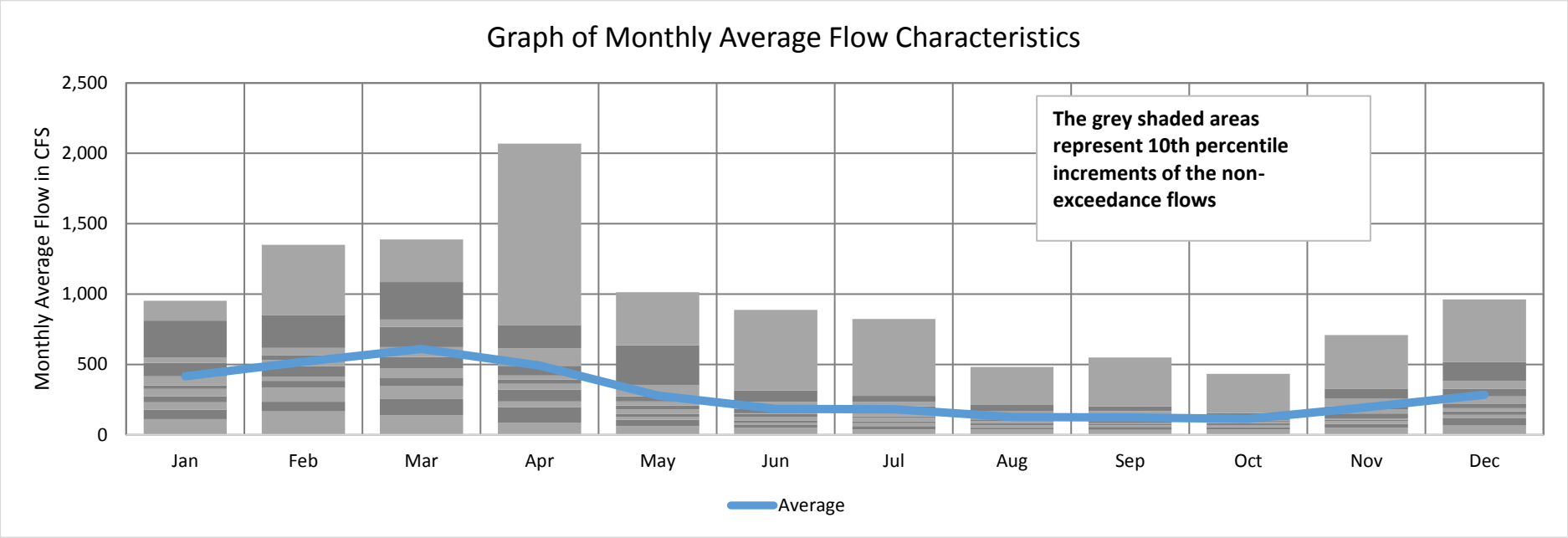
Site #: 02422500 Name: Mulberry Creek at Jones, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	416	519	610	492	279	184	182	127	123	113	195	285
100%	952	1,350	1,389	2,070	1,014	888	824	483	549	434	710	962
98%	903	1,083	1,354	1,596	810	651	715	342	316	396	665	741
95%	871	1,003	1,256	1,359	674	414	479	296	229	233	550	675
90%	811	852	1,085	777	637	315	276	211	203	155	328	518
75%	527	596	809	572	312	212	220	154	150	114	252	353
50%	351	486	554	394	208	147	130	111	99	99	151	219
25%	242	343	381	268	146	90	88	75	71	76	100	148
10%	178	236	254	198	107	73	62	51	57	53	78	117
5%	131	226	189	160	94	57	56	43	48	49	68	99
2%	113	173	160	118	68	53	39	40	38	40	50	85
0%	111	168	137	87	61	50	38	38	36	37	50	66

Site #: 02422500 Name: Mulberry Creek at Jones, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 203 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	416	519	610	492	279	184	182	127	123	113	195	285
100%	952	1,350	1,389	2,070	1,014	888	824	483	549	434	710	962
98%	903	1,083	1,354	1,596	810	651	715	342	316	396	665	741
95%	871	1,003	1,256	1,359	674	414	479	296	229	233	550	675
90%	811	852	1,085	777	637	315	276	211	203	155	328	518
75%	527	596	809	572	312	212	220	154	150	114	252	353
50%	351	486	554	394	208	147	130	111	99	99	151	219
25%	242	343	381	268	146	90	88	75	71	76	100	148
10%	178	236	254	198	107	73	62	51	57	53	78	117
5%	131	226	189	160	94	57	56	43	48	49	68	99
2%	113	173	160	118	68	53	39	40	38	40	50	85
0%	111	168	137	87	61	50	38	38	36	37	50	66

Monthly Flows (in CFS) for

02423000 - Alabama River at Selma, Al. (represents streamflow for 03150201)

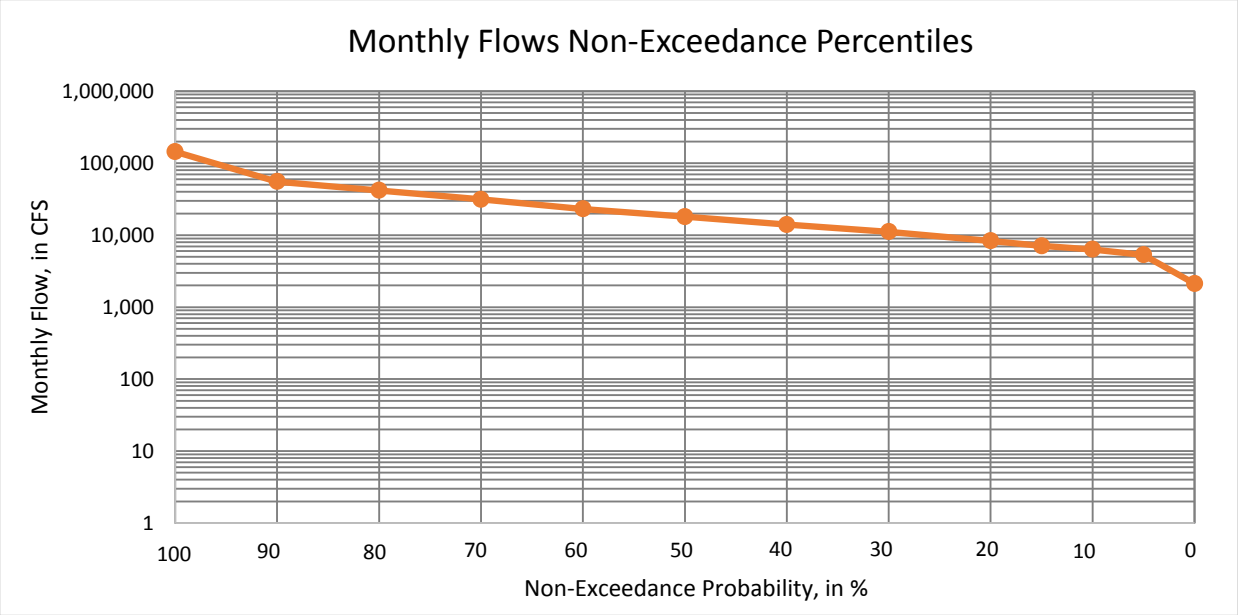
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	54,619	72,313	74,284	56,009	25,633	20,142	25,326	26,271	34,224	46,518	28,003	31,193	41,028
1976	55,815	36,184	90,440	61,432	35,409	20,062	23,537	11,517	9,926	7,172	13,317	28,265	32,800
1977	37,437	21,999	73,293	90,189	14,946	10,936	6,321	7,982	9,825	18,991	39,283	22,546	29,452
1978	59,370	26,556	35,888	15,049	48,523	17,624	7,716	10,679	8,317	4,905	8,405	18,079	21,823
1979	45,002	46,427	92,035	144,434	35,284	25,428	20,313	11,824	23,514	26,784	31,934	20,221	43,437
1980	47,213	44,592	114,583	91,636	48,523	16,462	11,107	7,024	11,562	8,285	14,479	14,240	35,762
1981	6,171	47,714	25,098	42,074	8,664	14,627	8,702	6,183	6,472	5,172	6,868	17,362	15,987
1982	55,040	80,607	39,306	55,644	25,895	14,433	12,326	13,374	6,105	7,853	14,673	66,434	32,355
1983	38,873	53,753	53,422	75,469	36,822	17,840	10,647	6,704	9,109	7,825	28,083	84,299	35,114
1984	60,669	40,103	39,363	36,298	45,151	12,121	15,060	37,335	9,621	10,221	13,659	20,654	28,372
1985	15,299	52,727	18,193	11,585	15,254	7,350	16,530	13,875	7,047	11,186	13,260	18,638	16,526
1986	9,909	17,213	19,982	6,705	4,841	4,650	5,178	4,668	4,194	4,025	21,851	28,356	10,931
1987	43,818	44,387	58,276	18,057	10,773	12,462	11,346	5,745	5,809	5,517	5,714	8,991	19,130
1988	27,593	23,001	11,562	11,505	6,270	5,497	4,197	4,305	16,405	9,817	20,951	13,898	12,827
1989	35,796	23,309	54,414	40,491	17,555	67,095	43,612	12,873	14,696	33,415	32,287	37,768	34,488
1990	64,053	114,697	121,647	26,249	19,686	9,497	8,715	7,042	5,851	10,597	10,575	22,138	34,649
1991	25,700	35,066	42,938	36,816	48,663	19,228	13,463	10,131	10,680	8,977	13,662	23,171	23,994
1992	33,508	39,455	43,669	21,486	9,869	15,575	11,359	15,829	18,067	11,857	52,336	57,791	27,477
1993	73,725	35,146	49,855	30,725	19,514	10,985	8,947	6,711	6,003	4,804	8,476	15,974	22,562
1994	25,429	39,869	50,523	60,112	15,397	13,332	23,076	14,835	15,696	26,034	16,588	38,612	28,217
1995	27,751	55,437	56,853	16,329	11,911	8,624	7,100	6,275	6,975	46,707	46,802	32,045	26,745
1996	55,708	73,979	79,020	33,206	17,240	14,492	9,487	10,195	12,321	11,132	18,862	31,377	30,347
1997	48,058	44,973	57,727	32,108	35,162	40,187	15,164	11,954	9,168	21,533	24,348	27,322	30,570
1998	55,183	78,337	64,247	58,872	23,935	14,336	9,471	9,659	6,813	6,021	9,052	17,192	29,103
1999	36,911	40,728	31,759	14,982	18,289	18,639	23,744	7,840	6,396	6,415	10,416	9,155	18,660
2000	13,536	12,257	24,364	59,492	10,133	5,551	5,146	5,625	5,316	5,730	11,117	10,044	13,971
2001	22,694	30,057	68,270	33,508	12,049	22,169	14,237	11,640	13,301	8,038	10,232	18,820	22,044
2002	30,533	23,719	21,110	21,611	18,604	8,129	7,993	7,310	11,642	14,069	35,603	55,393	21,312
2003	26,146	46,427	56,510	35,170	89,984	41,288	53,172	24,540	13,032	11,653	20,073	22,865	36,761
2004	24,232	42,872	17,681	11,220	13,989	14,468	14,411	10,160	30,134	16,006	48,352	50,619	24,344
2005	21,554	35,158	43,920	61,033	20,495	22,136	44,399	21,919	10,595	9,336	12,291	21,156	26,938
2006	30,760	35,010	30,624	17,874	17,065	8,051	6,351	7,783	6,382	8,559	21,315	13,932	16,866
2007	26,476	15,653	11,483	6,556	5,606	5,041	4,661	4,550	4,559	3,662	2,276	2,122	7,689
2008	6,456	20,142	23,845	17,259	15,413	6,265	5,124	14,263	7,381	6,720	7,649	31,376	13,478
2009	43,088	13,636	53,776	41,892	43,852	11,859	7,130	8,058	31,079	51,759	58,572	78,260	37,116
2010	52,488	60,862	54,972	20,780	25,086	13,944	7,026	6,658	4,985	4,774	7,555	11,779	22,379
2011	13,043	18,364	52,385	35,420	9,681	5,845	6,545	5,479	7,506	5,213	11,836	26,283	16,466
2012	32,709	22,831	30,179	8,313	7,436	5,491	4,659	6,372	5,462	6,743	7,496	22,056	13,306
2013	45,002	67,824	37,414	37,870	57,934	21,657	37,414	23,172	13,021	13,169	15,197	56,966	35,437
2014	44,011	42,314	36,309	62,252	23,469	19,561	10,128	6,424	6,709	11,665	16,348	29,291	25,564

Non-Exceedance Percentiles

02423000 - Alabama River at Selma, Al. (represents streamflow for 03150201)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122	7,689
5th %	9,736	15,552	17,375	8,232	6,237	5,468	4,661	4,662	4,963	4,737	6,810	9,147	12,732
10th %	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605	13,461
15th %	20,616	21,720	23,434	14,472	9,841	6,202	6,150	6,118	5,844	5,206	8,292	13,927	15,684
20th %	23,924	22,967	24,951	16,073	10,645	7,911	6,506	6,353	6,084	5,687	8,936	15,627	16,514
30th %	26,377	29,007	34,649	19,963	14,659	10,504	7,540	6,709	6,638	6,736	10,955	18,470	20,658
40th %	30,669	35,153	39,340	28,934	16,405	12,326	8,854	7,594	7,247	7,964	13,294	20,955	22,489
Median	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705	26,155
60th %	43,380	43,478	53,564	37,237	21,684	15,006	11,746	10,389	10,194	10,811	17,497	27,699	28,279
70th %	45,666	46,427	56,613	46,145	25,712	18,080	14,606	11,863	11,846	11,722	21,476	31,248	30,414
80th %	54,703	54,090	65,052	59,616	35,692	20,078	20,865	13,953	13,580	16,603	28,853	37,937	34,520
90th %	56,170	72,480	80,162	63,574	48,523	22,495	26,535	22,044	18,611	27,447	40,035	57,048	35,862
Maximum	73,725	114,697	121,647	144,434	89,984	67,095	53,172	37,335	34,224	51,759	58,572	84,299	43,437
Average	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917	25,401

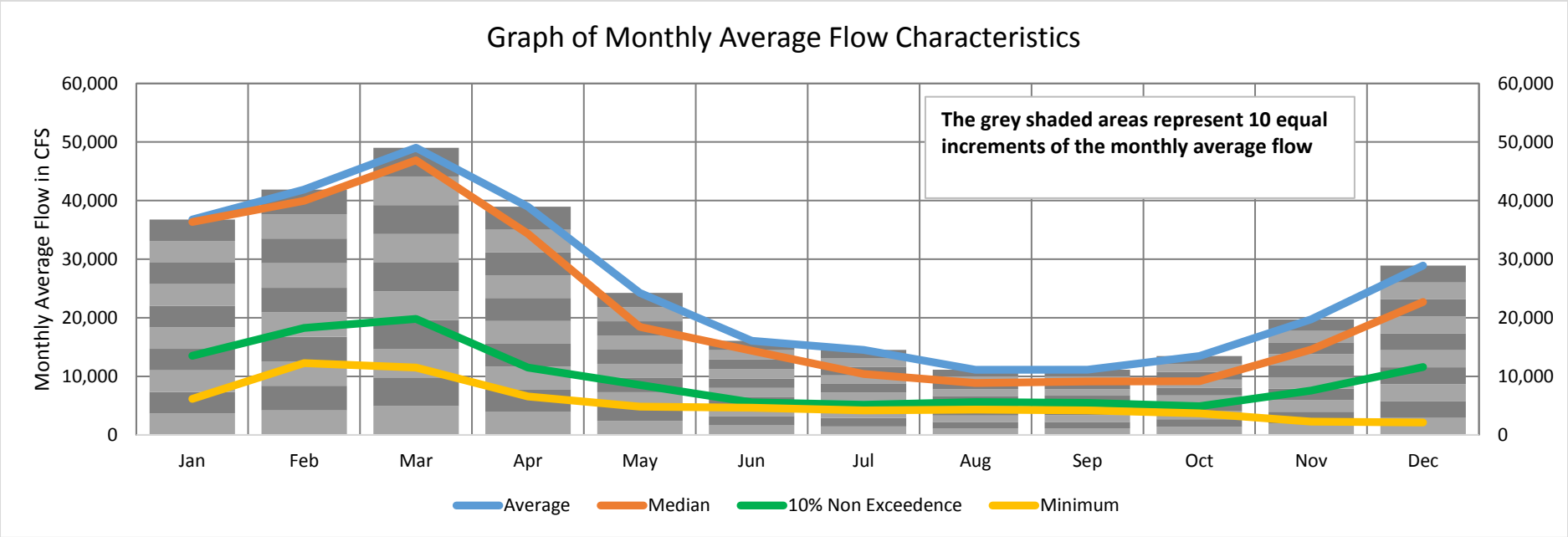
	Flows in CFS
Minimum	2,121.5
5th %	5,311
10th %	6,348
15th %	7,092
20th %	8,316
30th %	11,170
40th %	14,037
Median	18,062
60th %	23,172
70th %	31,491
80th %	41,928
90th %	55,398
Maximum	144,434
Average	25,492



Q10/Q50	0.35
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.12
Q5/DA	0.31
Q10/DA	0.37
Q15/DA	0.41
Q20/DA	0.49
Q30/DA	0.65
Q40/DA	0.82
Q50/DA	1.06
Q60/DA	1.36
Q70/DA	1.84
Q80/DA	2.45
Q90/DA	3.24
Qmax/DA	8.45

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

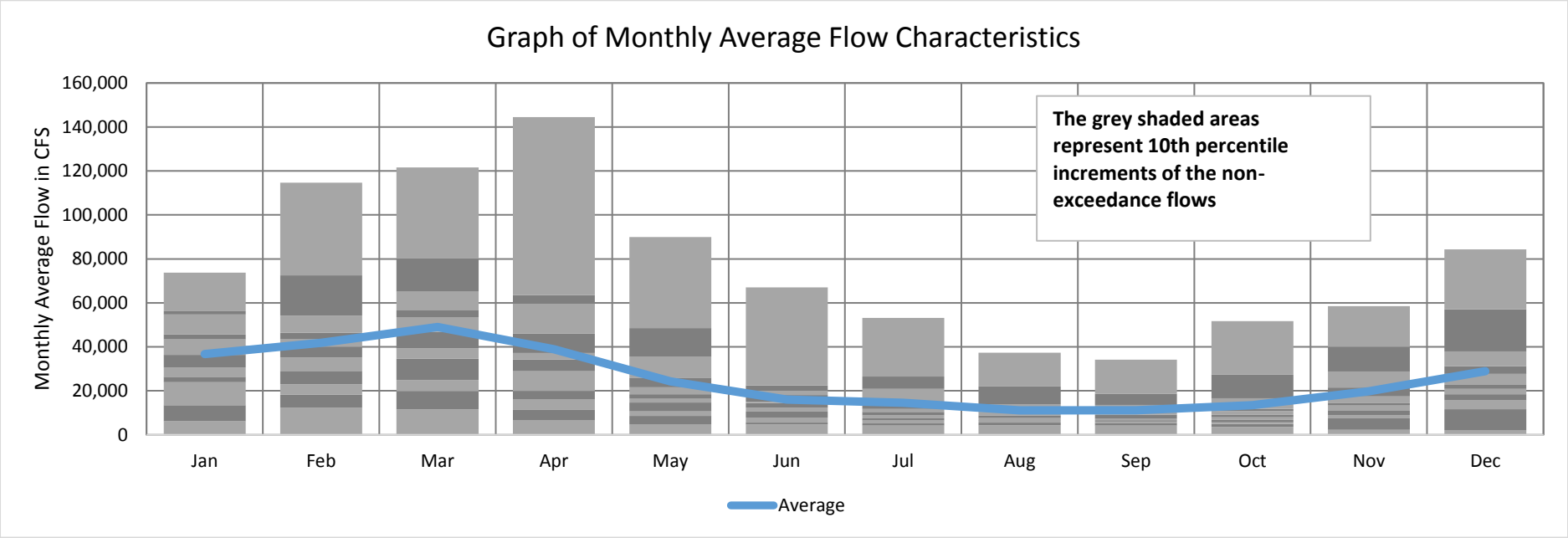
Site #: 02423000 Name: Alabama River at Selma, Al. (represents streamflow for 03150201)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917
100%	73,725	114,697	121,647	144,434	89,984	67,095	53,172	37,335	34,224	51,759	58,572	84,299
98%	66,180	88,107	116,137	103,252	64,985	46,966	46,329	28,705	31,771	47,818	53,708	79,589
95%	60,838	78,450	93,163	90,262	49,126	40,242	43,652	24,626	30,181	46,527	48,551	67,025
90%	56,170	72,480	80,162	63,574	48,523	22,495	26,535	22,044	18,611	27,447	40,035	57,048
75%	49,166	48,967	57,864	56,725	35,192	19,311	15,506	12,998	13,024	13,394	25,262	31,544
50%	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705
25%	25,632	23,617	30,513	17,721	12,015	8,500	7,082	6,600	6,392	6,316	10,370	17,319
10%	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605
5%	9,736	15,552	17,375	8,232	6,237	5,468	4,661	4,662	4,963	4,737	6,810	9,147
2%	6,393	13,333	11,545	6,672	5,438	4,955	4,557	4,496	4,478	3,945	4,958	7,480
0%	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122

Site #: 02423000 Name: Alabama River at Selma, Al. (represents streamflow for 03150201)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 17,095 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	36,784	41,892	49,030	38,943	24,250	16,077	14,521	11,120	11,147	13,471	19,745	28,917
100%	73,725	114,697	121,647	144,434	89,984	67,095	53,172	37,335	34,224	51,759	58,572	84,299
98%	66,180	88,107	116,137	103,252	64,985	46,966	46,329	28,705	31,771	47,818	53,708	79,589
95%	60,838	78,450	93,163	90,262	49,126	40,242	43,652	24,626	30,181	46,527	48,551	67,025
90%	56,170	72,480	80,162	63,574	48,523	22,495	26,535	22,044	18,611	27,447	40,035	57,048
75%	49,166	48,967	57,864	56,725	35,192	19,311	15,506	12,998	13,024	13,394	25,262	31,544
50%	36,354	39,986	46,888	34,339	18,446	14,385	10,388	8,858	9,138	9,156	14,576	22,705
25%	25,632	23,617	30,513	17,721	12,015	8,500	7,082	6,600	6,392	6,316	10,370	17,319
10%	13,487	18,249	19,803	11,477	8,541	5,546	5,144	5,610	5,448	4,895	7,549	11,605
5%	9,736	15,552	17,375	8,232	6,237	5,468	4,661	4,662	4,963	4,737	6,810	9,147
2%	6,393	13,333	11,545	6,672	5,438	4,955	4,557	4,496	4,478	3,945	4,958	7,480
0%	6,171	12,257	11,483	6,556	4,841	4,650	4,197	4,305	4,194	3,662	2,276	2,122

Monthly Flows (in CFS) for

02423555 - Cahaba River near Helena, Ala.

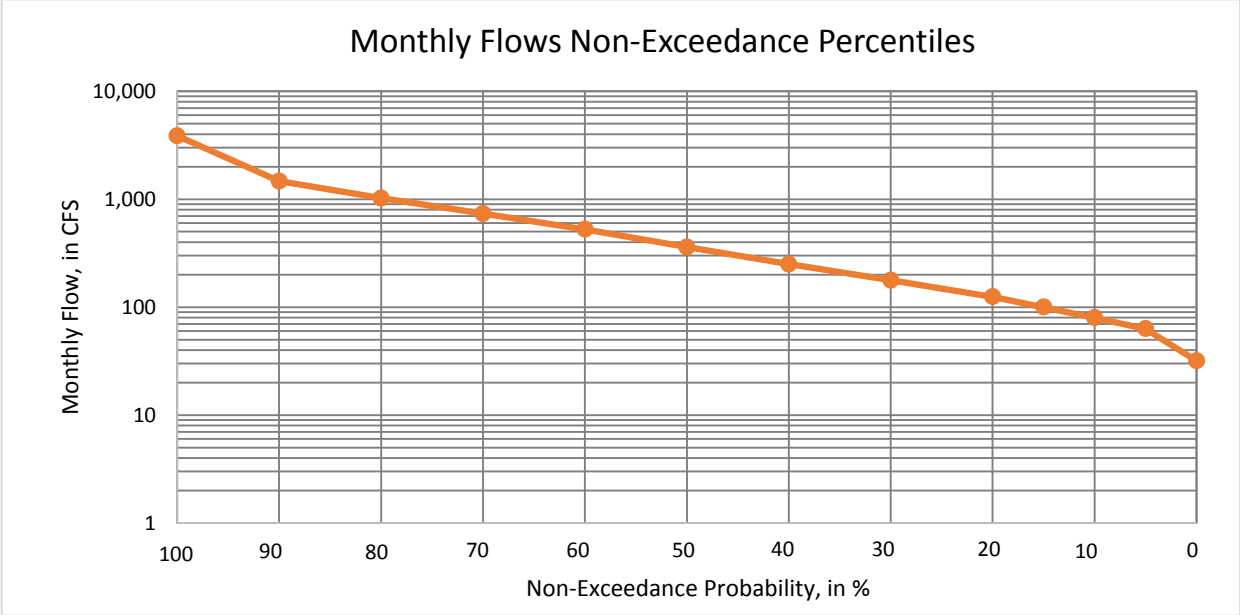
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,786	1,863	1,627	1,277	518	242	427	417	334	648	315	609	833
1976	1,542	563	3,867	1,283	1,529	374	186	185	176	95	126	380	865
1977	972	729	3,389	1,973	237	131	141	97	307	881	858	508	853
1978	1,277	480	823	318	964	768	151	117	79	56	64	218	444
1979	1,100	1,031	1,876	3,717	530	327	265	204	670	371	503	268	900
1980	1,151	1,020	3,704	1,843	869	254	149	108	100	235	200	140	815
1981	120	1,003	880	767	182	240	118	88	64	70	62	173	309
1982	987	1,536	655	1,502	473	437	243	218	79	96	192	2,016	698
1983	760	2,000	1,383	2,426	1,555	393	226	143	134	103	815	2,681	1,045
1984	1,118	634	827	1,064	825	201	185	255	114	206	275	592	525
1985	317	1,475	537	358	280	138	284	187	60	130	142	275	341
1986	123	265	225	64	75	64	69	70	65	109	659	642	202
1987	1,558	1,032	1,182	435	224	259	194	63	83	41	77	116	436
1988	545	400	256	315	102	42	73	43	197	102	498	306	238
1989	1,069	551	1,710	1,056	282	887	1,275	165	172	183	417	700	708
1990	2,074	3,468	1,650	485	364	181	156	78	60	67	88	288	730
1991	412	1,227	1,199	799	1,752	826	356	145	137	81	216	314	618
1992	598	1,079	686	512	146	114	141	227	482	94	1,099	1,147	522
1993	1,891	746	997	704	615	192	115	155	116	85	244	341	517
1994	722	899	1,360	1,080	260	248	399	149	309	453	306	925	591
1995	713	1,678	1,522	716	277	171	105	79	114	901	1,100	747	670
1996	1,780	1,160	2,174	563	237	126	378	148	147	138	300	451	633
1997	1,467	1,021	1,196	617	354	1,499	441	148	104	203	263	662	662
1998	2,174	1,667	1,326	1,099	212	98	134	260	77	60	174	418	636
1999	968	789	1,081	399	243	1,026	499	61	52	142	101	156	458
2000	401	197	1,119	1,944	83	73	59	75	34	32	201	98	359
2001	435	677	1,686	1,301	158	466	182	303	1,148	109	146	769	613
2002	1,303	642	831	389	525	106	272	62	647	592	984	1,319	640
2003	543	1,504	1,106	674	3,453	1,324	862	481	149	61	201	175	876
2004	580	1,522	584	373	390	282	303	133	1,075	174	2,276	1,101	723
2005	455	1,004	1,147	1,149	324	861	968	336	185	56	111	362	576
2006	1,083	1,751	1,132	611	562	92	98	128	95	163	223	190	503
2007	564	412	233	92	70	38	80	59	116	55	41	59	150
2008	178	537	488	617	783	116	81	553	98	75	54	434	334
2009	1,070	579	1,496	707	1,002	262	251	185	1,228	1,231	1,224	1,573	904
2010	833	987	1,564	504	528	454	140	186	62	97	201	197	477
2011	307	471	1,722	949	125	148	192	57	775	63	297	838	495
2012	1,105	630	969	254	166	72	283	382	357	183	86	699	433
2013	1,580	1,654	883	729	915	375	591	716	126	80	149	980	728
2014	579	924	975	2,045	348	352	85	97	136	145	369	1,085	591

Non-Exceedance Percentiles

02423555 - Cahaba River near Helena, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	120	197	225	64	70	38	59	43	34	32	41	59	150
5th %	175	393	255	246	83	63	73	59	59	54	61	115	237
10th %	316	465	532	318	123	73	81	62	62	56	75	155	331
15th %	411	528	644	371	156	97	96	69	65	60	88	175	356
20th %	451	561	796	397	178	112	113	77	79	66	109	196	436
30th %	575	640	882	510	237	136	140	97	97	81	148	284	490
40th %	719	772	1,047	617	279	188	154	131	114	95	201	354	524
Median	970	995	1,140	712	351	245	189	148	130	106	220	442	602
60th %	1,075	1,025	1,250	859	491	270	246	173	148	140	284	622	638
70th %	1,128	1,180	1,504	1,086	540	374	283	192	189	177	331	714	701
80th %	1,482	1,525	1,657	1,286	834	457	382	256	339	212	534	936	747
90th %	1,781	1,685	1,906	1,947	1,055	864	508	386	680	597	995	1,164	866
Maximum	2,174	3,468	3,867	3,717	3,453	1,499	1,275	716	1,228	1,231	2,276	2,681	1,045
Average	956	1,045	1,302	943	563	357	279	189	262	217	391	624	591

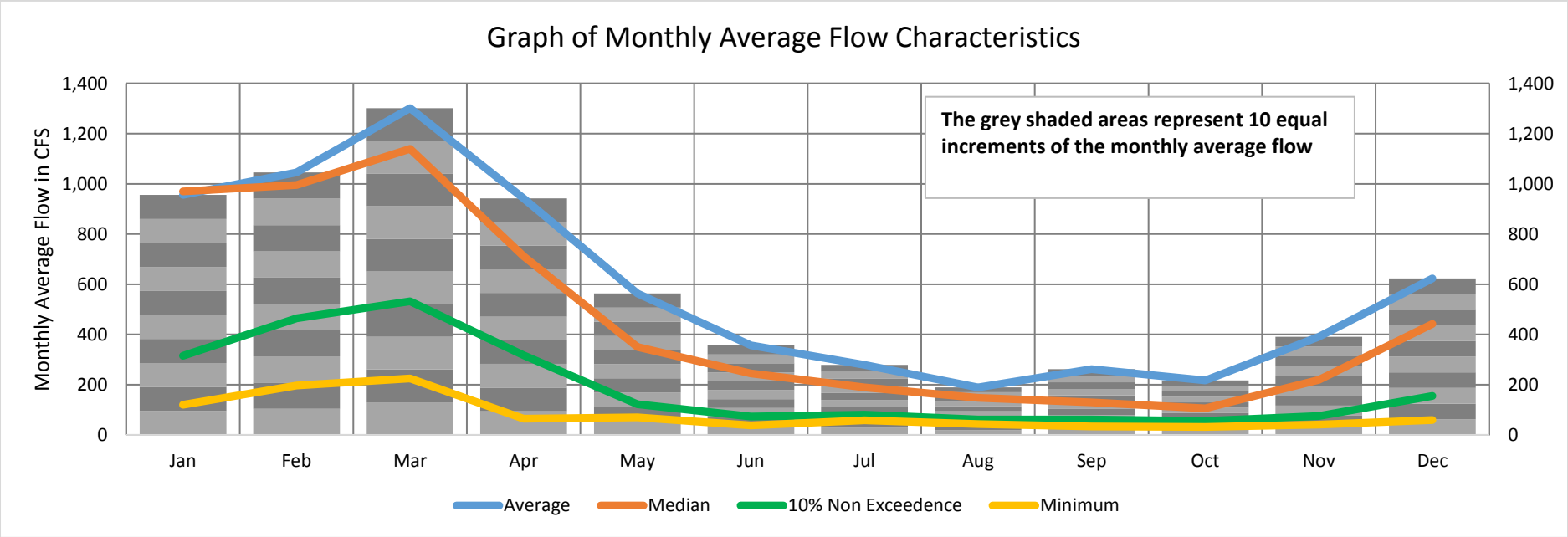
	Flows in CFS
Minimum	31.8
5th %	63
10th %	80
15th %	100
20th %	125
30th %	177
40th %	250
Median	360
60th %	526
70th %	734
80th %	1,022
90th %	1,468
Maximum	3,867
Average	594



Q10/Q50	0.22
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.09
Q5/DA	0.19
Q10/DA	0.24
Q15/DA	0.30
Q20/DA	0.37
Q30/DA	0.53
Q40/DA	0.75
Q50/DA	1.07
Q60/DA	1.57
Q70/DA	2.19
Q80/DA	3.05
Q90/DA	4.38
Qmax/DA	11.54

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

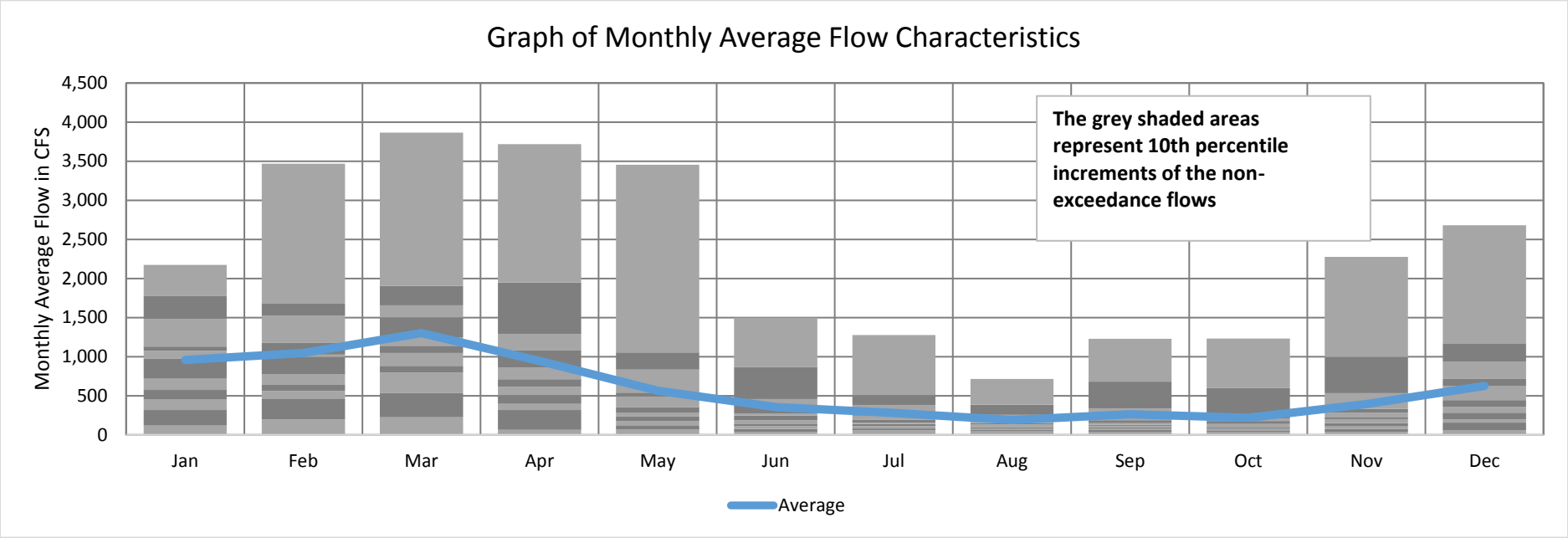
Site #: 02423555 Name: Cahaba River near Helena, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	956	1,045	1,302	943	563	357	279	189	262	217	391	624
100%	2,174	3,468	3,867	3,717	3,453	1,499	1,275	716	1,228	1,231	2,276	2,681
98%	2,096	2,322	3,740	2,710	2,126	1,363	1,035	589	1,166	973	1,455	2,162
95%	1,900	1,870	3,404	2,064	1,565	1,041	867	484	1,079	882	1,106	1,595
90%	1,781	1,685	1,906	1,947	1,055	864	508	386	680	597	995	1,164
75%	1,284	1,482	1,580	1,181	657	404	317	220	308	188	438	786
50%	970	995	1,140	712	351	245	189	148	130	106	220	442
25%	545	617	830	472	221	123	130	86	82	74	138	256
10%	316	465	532	318	123	73	81	62	62	56	75	155
5%	175	393	255	246	83	63	73	59	59	54	61	115
2%	122	250	231	86	74	41	67	54	48	39	51	89
0%	120	197	225	64	70	38	59	43	34	32	41	59

Site #: 02423555 Name: Cahaba River near Helena, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 335 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	956	1,045	1,302	943	563	357	279	189	262	217	391	624
100%	2,174	3,468	3,867	3,717	3,453	1,499	1,275	716	1,228	1,231	2,276	2,681
98%	2,096	2,322	3,740	2,710	2,126	1,363	1,035	589	1,166	973	1,455	2,162
95%	1,900	1,870	3,404	2,064	1,565	1,041	867	484	1,079	882	1,106	1,595
90%	1,781	1,685	1,906	1,947	1,055	864	508	386	680	597	995	1,164
75%	1,284	1,482	1,580	1,181	657	404	317	220	308	188	438	786
50%	970	995	1,140	712	351	245	189	148	130	106	220	442
25%	545	617	830	472	221	123	130	86	82	74	138	256
10%	316	465	532	318	123	73	81	62	62	56	75	155
5%	175	393	255	246	83	63	73	59	59	54	61	115
2%	122	250	231	86	74	41	67	54	48	39	51	89
0%	120	197	225	64	70	38	59	43	34	32	41	59

Monthly Flows (in CFS) for

02423647 - Cahaba River near West Blocton, Ala.

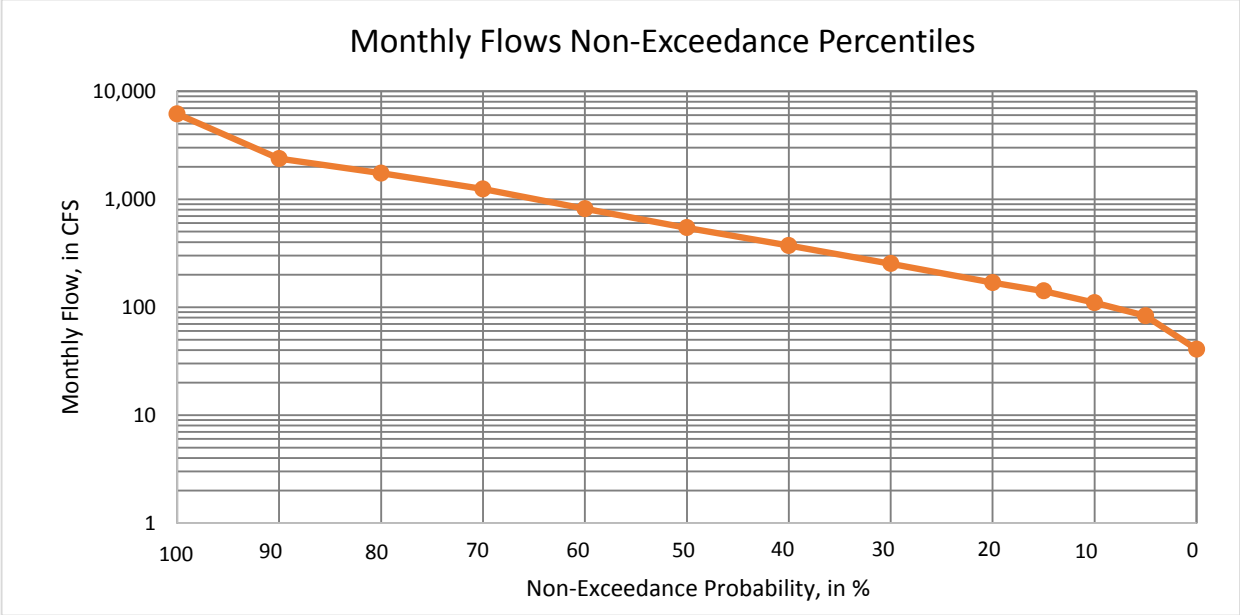
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,041	3,173	2,771	2,167	839	363	680	662	519	959	484	945	1,375
1976	2,516	900	6,166	1,689	2,374	485	180	192	203	103	133	517	1,299
1977	1,649	1,096	4,969	3,068	284	140	180	164	752	1,779	1,622	910	1,387
1978	2,210	731	1,463	519	1,691	1,442	284	188	109	69	85	389	768
1979	2,078	1,688	2,768	5,433	737	371	361	318	1,461	756	924	402	1,433
1980	2,006	1,590	6,140	3,078	1,473	281	131	121	148	358	336	204	1,324
1981	163	1,823	1,552	1,286	198	238	203	150	107	106	67	396	514
1982	1,946	2,893	1,246	2,417	844	895	445	382	110	138	387	4,060	1,305
1983	1,466	3,464	2,395	3,655	2,598	507	280	159	176	137	1,504	5,259	1,790
1984	2,059	996	1,352	1,999	1,495	248	237	367	146	304	420	968	884
1985	490	2,509	873	561	428	192	433	272	73	180	198	419	540
1986	169	401	335	79	96	79	86	88	80	146	1,086	1,057	307
1987	2,652	1,740	2,003	693	333	392	283	78	107	47	98	158	711
1988	886	633	387	486	135	49	92	50	289	136	804	472	366
1989	1,805	897	2,913	1,782	431	1,487	2,165	236	247	265	664	1,158	1,174
1990	3,528	5,794	2,811	781	571	262	222	100	73	83	115	441	1,204
1991	655	2,080	2,031	1,332	2,984	1,380	558	204	190	104	320	485	1,021
1992	979	1,822	1,133	829	205	155	197	339	776	124	1,857	1,941	855
1993	3,220	1,238	1,678	1,165	1,009	280	155	219	158	110	367	531	845
1994	1,197	1,507	2,312	1,824	394	373	632	211	478	726	471	1,552	971
1995	1,181	2,858	2,590	1,187	423	246	140	100	155	1,303	1,739	1,310	1,091
1996	2,815	2,635	3,363	1,133	463	266	531	336	238	260	446	778	1,099
1997	2,291	1,887	2,156	1,093	552	2,027	781	310	159	237	501	1,106	1,087
1998	4,002	3,448	2,469	1,633	502	299	264	284	368	136	286	549	1,174
1999	1,897	1,523	1,842	797	377	1,080	641	92	67	170	141	254	736
2000	648	344	1,702	2,890	155	115	83	126	48	41	218	149	542
2001	675	1,084	2,867	1,725	229	641	208	294	1,451	153	166	1,230	891
2002	2,357	1,306	1,495	641	619	199	325	93	682	581	1,257	2,077	970
2003	930	2,490	2,010	1,593	3,910	1,964	1,883	605	233	145	322	316	1,361
2004	762	2,073	839	569	509	317	319	173	1,258	176	2,592	1,562	917
2005	653	1,748	1,993	2,308	594	1,527	1,824	519	274	136	204	589	1,024
2006	1,432	2,341	1,810	857	929	170	149	160	140	245	409	348	740
2007	1,088	790	373	187	88	50	82	43	101	49	44	70	244
2008	200	999	684	912	937	143	87	550	111	60	51	653	446
2009	1,595	900	2,896	1,339	1,509	376	283	242	2,335	1,862	2,316	2,918	1,552
2010	1,879	2,420	3,355	878	852	527	189	261	96	116	263	392	929
2011	600	804	3,072	1,480	206	139	187	52	840	77	278	1,050	732
2012	1,785	1,278	2,102	519	290	90	197	640	444	339	113	1,333	762
2013	2,631	3,270	1,405	1,231	1,190	490	735	771	137	94	160	1,579	1,131
2014	920	1,584	1,944	3,881	768	600	176	135	152	186	536	1,873	1,056

Non-Exceedance Percentiles

02423647 - Cahaba River near West Blocton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	163	344	335	79	88	49	82	43	48	41	44	70	244
5th %	199	622	386	471	133	77	86	51	72	49	66	157	363
10th %	589	784	823	519	194	113	92	87	79	68	96	249	508
15th %	652	883	1,094	567	206	140	139	93	101	82	114	343	541
20th %	671	900	1,331	683	273	152	154	100	107	101	139	391	728
30th %	927	1,093	1,535	849	389	227	185	146	129	114	202	434	766
40th %	1,191	1,427	1,829	1,117	450	264	201	170	151	136	283	525	888
Median	1,622	1,639	2,006	1,259	561	308	250	208	167	146	351	716	970
60th %	1,886	1,823	2,218	1,525	749	374	284	250	235	177	430	1,001	1,068
70th %	2,065	2,158	2,644	1,742	875	495	383	299	312	249	512	1,180	1,144
80th %	2,389	2,534	2,872	2,195	1,247	692	573	344	552	343	956	1,554	1,300
90th %	2,837	3,182	3,356	3,069	1,759	1,446	740	555	882	777	1,634	1,954	1,376
Maximum	4,002	5,794	6,166	5,433	3,910	2,027	2,165	771	2,335	1,862	2,592	5,259	1,790
Average	1,626	1,819	2,207	1,542	856	522	422	257	387	325	599	1,060	964

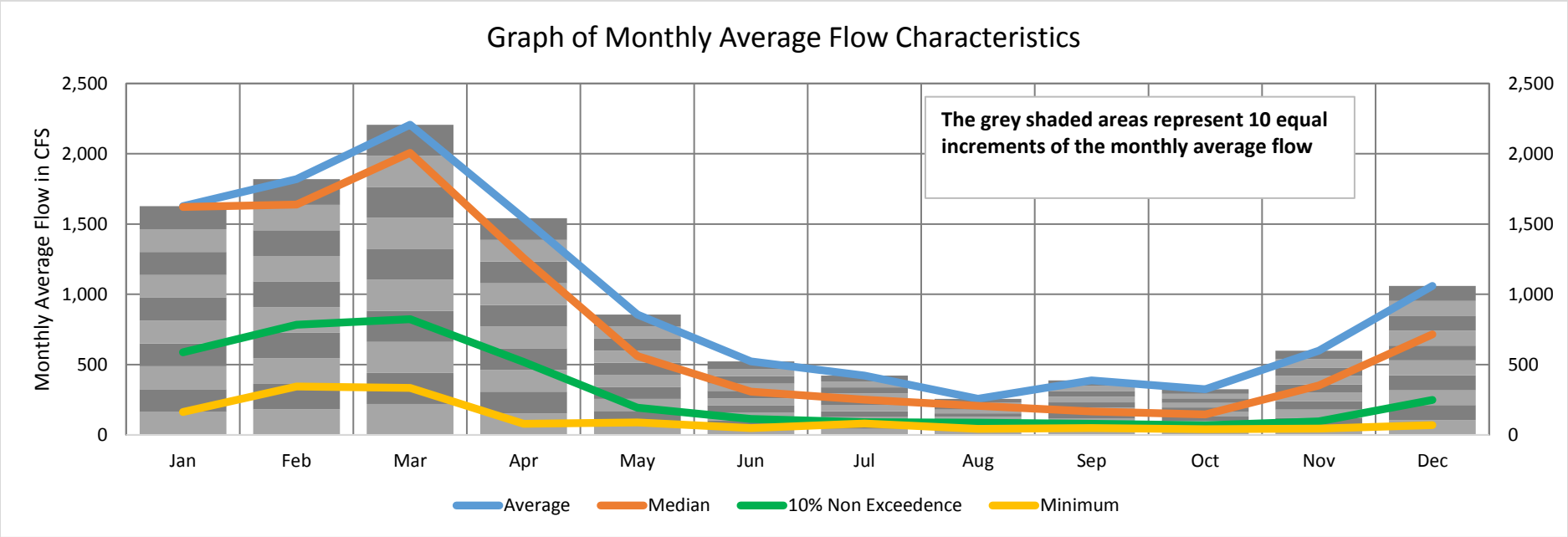
	Flows in CFS
Minimum	40.7
5th %	83
10th %	110
15th %	141
20th %	168
30th %	252
40th %	372
Median	543
60th %	814
70th %	1,241
80th %	1,739
90th %	2,376
Maximum	6,166
Average	969



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.07
Q5/DA	0.14
Q10/DA	0.19
Q15/DA	0.24
Q20/DA	0.28
Q30/DA	0.43
Q40/DA	0.63
Q50/DA	0.91
Q60/DA	1.37
Q70/DA	2.09
Q80/DA	2.93
Q90/DA	4.01
Qmax/DA	10.40

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

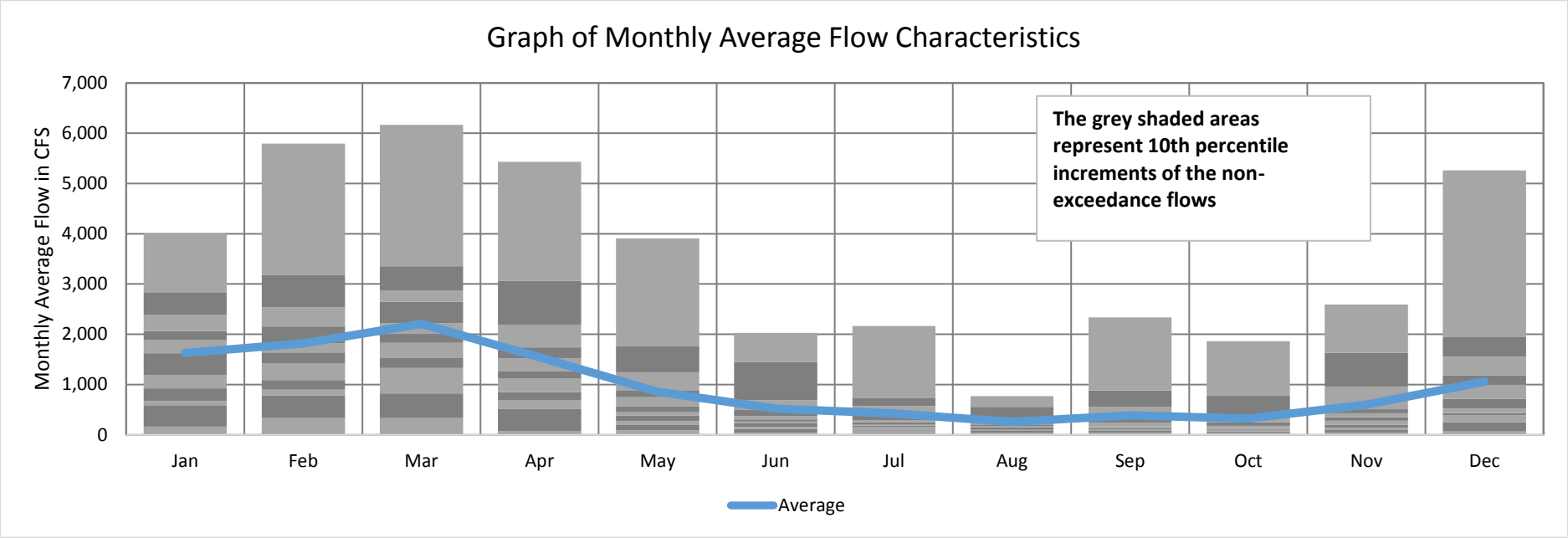
Site #: 02423647 Name: Cahaba River near West Blocton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,626	1,819	2,207	1,542	856	522	422	257	387	325	599	1,060
100%	4,002	5,794	6,166	5,433	3,910	2,027	2,165	771	2,335	1,862	2,592	5,259
98%	3,632	3,976	6,146	4,223	3,188	1,978	1,945	686	1,653	1,797	2,376	4,324
95%	3,236	3,449	5,028	3,666	2,617	1,549	1,827	641	1,452	1,327	1,880	2,975
90%	2,837	3,182	3,356	3,069	1,759	1,446	740	555	882	777	1,634	1,954
75%	2,230	2,437	2,781	1,868	955	545	466	322	452	275	699	1,316
50%	1,622	1,639	2,006	1,259	561	308	250	208	167	146	351	716
25%	855	998	1,449	793	322	186	179	125	110	105	164	400
10%	589	784	823	519	194	113	92	87	79	68	96	249
5%	199	622	386	471	133	77	86	51	72	49	66	157
2%	167	389	364	163	94	50	83	48	63	46	50	131
0%	163	344	335	79	88	49	82	43	48	41	44	70

Site #: 02423647 Name: Cahaba River near West Blocton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 593 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,626	1,819	2,207	1,542	856	522	422	257	387	325	599	1,060
100%	4,002	5,794	6,166	5,433	3,910	2,027	2,165	771	2,335	1,862	2,592	5,259
98%	3,632	3,976	6,146	4,223	3,188	1,978	1,945	686	1,653	1,797	2,376	4,324
95%	3,236	3,449	5,028	3,666	2,617	1,549	1,827	641	1,452	1,327	1,880	2,975
90%	2,837	3,182	3,356	3,069	1,759	1,446	740	555	882	777	1,634	1,954
75%	2,230	2,437	2,781	1,868	955	545	466	322	452	275	699	1,316
50%	1,622	1,639	2,006	1,259	561	308	250	208	167	146	351	716
25%	855	998	1,449	793	322	186	179	125	110	105	164	400
10%	589	784	823	519	194	113	92	87	79	68	96	249
5%	199	622	386	471	133	77	86	51	72	49	66	157
2%	167	389	364	163	94	50	83	48	63	46	50	131
0%	163	344	335	79	88	49	82	43	48	41	44	70

Monthly Flows (in CFS) for

02423800 - Little Cahaba River near Brierfield, Ala.

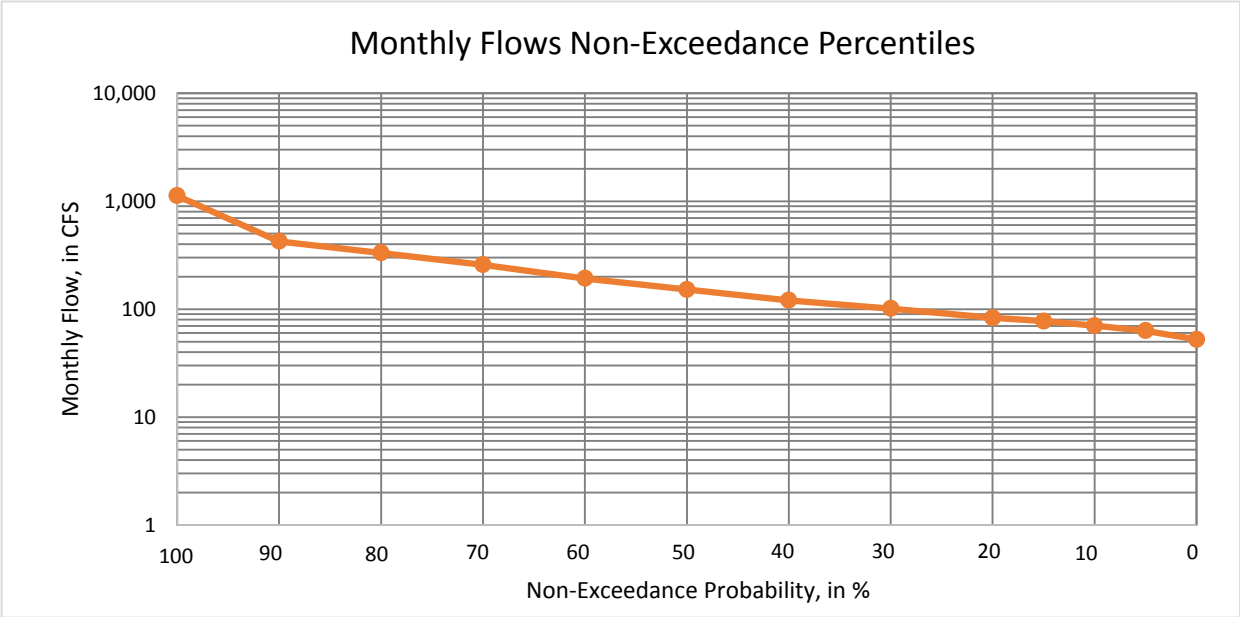
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	525	545	485	396	198	120	173	170	146	233	141	222	278
1976	464	210	1,122	398	460	158	103	103	100	74	84	160	288
1977	318	255	965	573	118	85	89	74	139	294	288	195	283
1978	396	187	279	142	316	265	92	81	68	60	63	113	172
1979	351	333	548	1,071	201	145	127	108	239	157	194	128	299
1980	364	330	1,066	540	291	123	91	78	75	118	107	89	273
1981	82	326	294	264	101	119	81	71	63	65	62	99	134
1982	322	462	235	453	185	176	120	112	68	74	105	584	240
1983	263	580	423	691	467	163	115	89	86	76	277	760	331
1984	356	229	280	342	280	107	102	123	80	109	130	218	196
1985	141	446	203	153	131	88	132	103	61	85	89	129	145
1986	83	126	115	63	67	63	65	65	63	78	236	231	104
1987	468	333	372	175	114	125	105	63	69	54	67	81	168
1988	205	165	124	141	76	55	66	55	106	76	192	139	116
1989	343	207	506	340	131	296	396	96	98	102	170	247	245
1990	599	990	491	189	155	101	94	68	61	64	71	133	247
1991	169	383	376	273	517	280	153	90	87	69	112	141	220
1992	220	346	243	196	90	80	89	115	188	73	351	363	195
1993	552	259	324	248	224	105	80	93	81	70	120	148	192
1994	253	299	417	346	125	121	165	91	139	180	138	306	215
1995	250	498	458	251	130	98	77	68	80	269	333	270	230
1996	492	465	574	243	137	102	148	115	97	101	134	188	232
1997	414	355	395	237	152	376	189	110	81	97	143	239	231
1998	673	587	440	318	143	108	102	105	121	76	106	151	242
1999	357	301	348	191	122	235	166	66	60	83	77	100	175
2000	167	116	328	503	80	71	64	74	55	52	93	79	140
2001	172	236	499	331	95	166	91	107	291	80	82	258	200
2002	424	269	297	166	163	89	113	66	173	157	262	383	214
2003	212	444	373	312	658	366	354	161	96	78	112	111	272
2004	186	382	198	155	145	111	112	84	262	84	459	307	205
2005	168	335	371	417	159	302	346	146	104	76	90	158	222
2006	288	422	344	201	212	83	79	81	77	98	128	117	176
2007	236	190	121	87	65	55	64	53	68	55	54	60	92
2008	89	223	173	209	213	78	65	151	71	58	56	168	129
2009	312	207	504	274	299	122	105	97	421	351	418	507	302
2010	354	433	573	204	200	148	87	101	67	72	101	125	204
2011	160	192	530	295	91	77	87	56	198	62	104	230	173
2012	340	265	387	146	106	66	89	166	134	115	71	273	180
2013	464	560	284	258	252	142	181	187	76	67	81	310	237
2014	210	310	363	654	187	160	84	76	79	87	149	353	225

Non-Exceedance Percentiles

02423800 - Little Cahaba River near Brierfield, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	82	116	115	63	65	55	64	53	55	52	54	60	92
5th %	89	163	124	138	75	62	65	56	61	55	62	81	116
10th %	158	190	195	146	89	71	66	65	63	60	67	98	134
15th %	168	205	230	154	94	77	79	66	66	64	71	110	144
20th %	171	210	272	173	105	82	81	68	68	66	80	116	171
30th %	211	249	296	199	124	95	88	75	74	73	90	132	179
40th %	252	287	347	241	135	106	91	83	80	76	104	150	199
Median	315	328	373	261	153	119	102	92	84	78	112	178	214
60th %	346	339	404	302	186	124	108	102	97	85	131	226	227
70th %	359	395	466	340	204	151	122	108	110	99	145	250	238
80th %	432	450	504	401	257	168	155	115	141	116	202	306	252
90th %	495	546	573	543	330	282	182	152	202	185	293	365	284
Maximum	673	990	1,122	1,071	658	376	396	187	421	351	459	760	331
Average	311	345	411	311	196	143	126	98	116	106	151	222	211

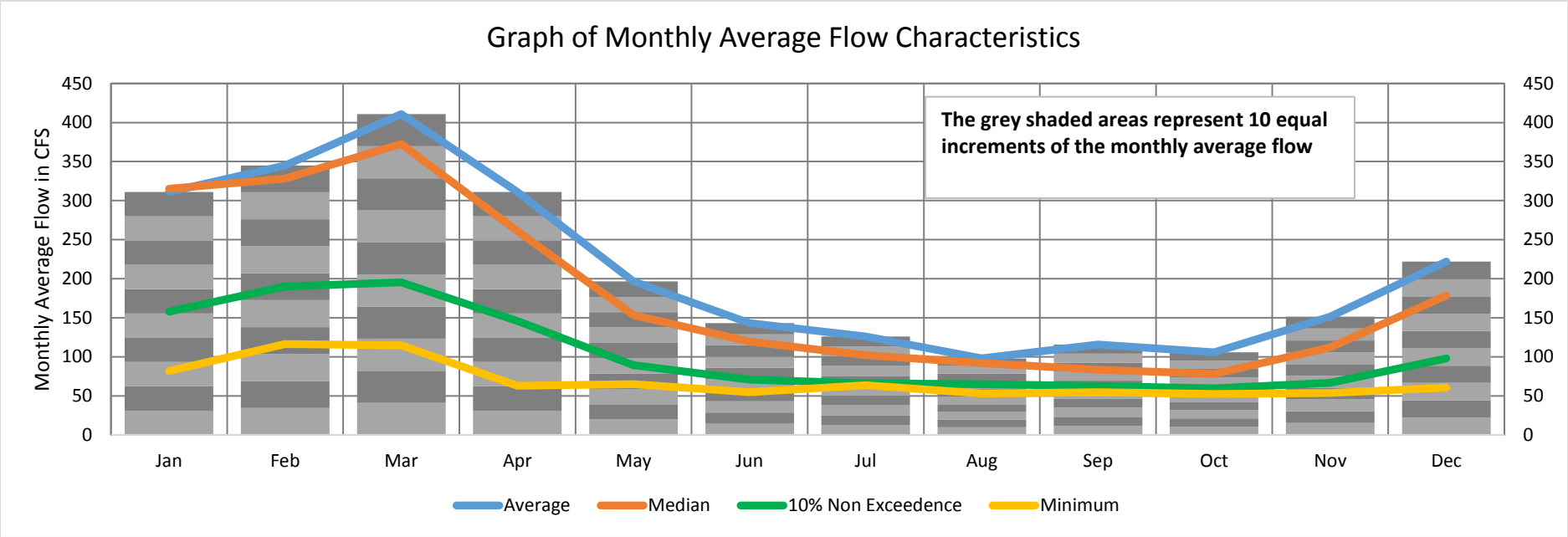
	Flows in CFS
Minimum	52.4
5th %	63
10th %	70
15th %	77
20th %	83
30th %	101
40th %	120
Median	152
60th %	192
70th %	258
80th %	332
90th %	425
Maximum	1,122
Average	211



Q10/Q50	0.46
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.36
Q5/DA	0.43
Q10/DA	0.48
Q15/DA	0.53
Q20/DA	0.57
Q30/DA	0.69
Q40/DA	0.82
Q50/DA	1.03
Q60/DA	1.31
Q70/DA	1.75
Q80/DA	2.26
Q90/DA	2.89
Qmax/DA	7.63

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

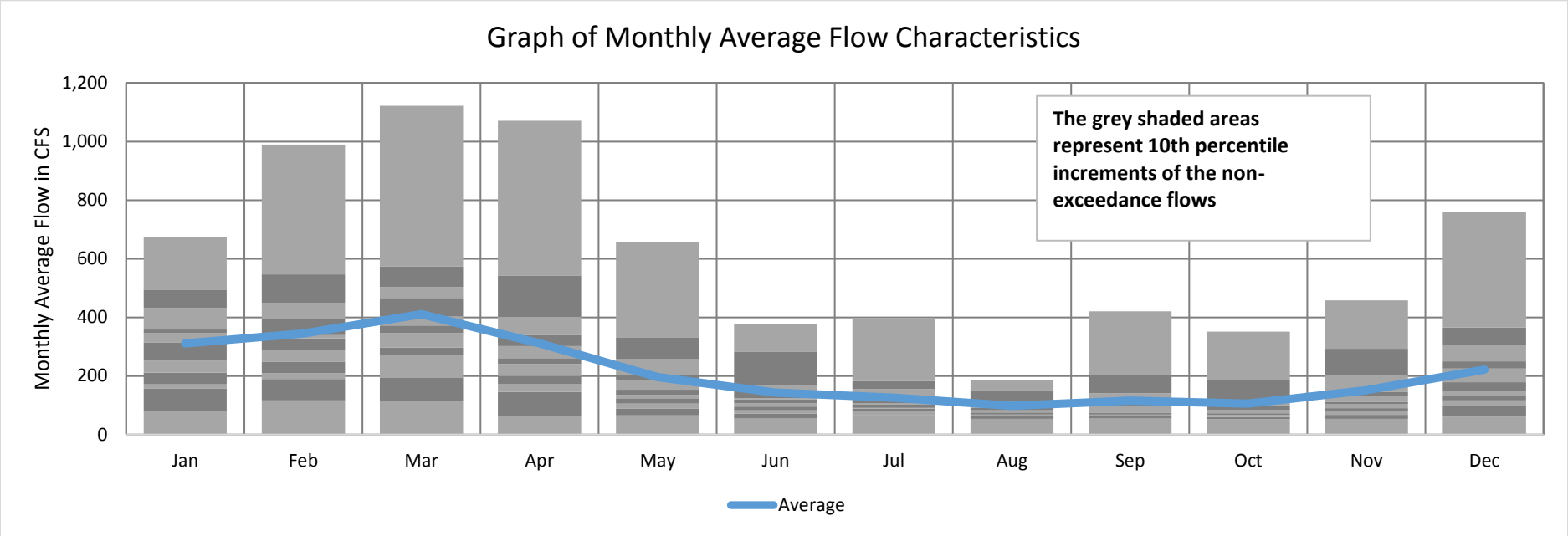
Site #: 02423800 Name: Little Cahaba River near Brierfield, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	311	345	411	311	196	143	126	98	116	106	151	222
100%	673	990	1,122	1,071	658	376	396	187	421	351	459	760
98%	615	675	1,079	775	548	368	364	174	319	307	427	623
95%	555	580	970	656	469	305	346	166	263	270	354	511
90%	495	546	573	543	330	282	182	152	202	185	293	365
75%	401	436	493	358	216	161	136	111	135	104	176	271
50%	315	328	373	261	153	119	102	92	84	78	112	178
25%	200	228	283	191	117	87	86	73	69	70	83	127
10%	158	190	195	146	89	71	66	65	63	60	67	98
5%	89	163	124	138	75	62	65	56	61	55	62	81
2%	83	124	120	81	66	55	64	55	59	54	55	75
0%	82	116	115	63	65	55	64	53	55	52	54	60

Site #: 02423800 Name: Little Cahaba River near Brierfield, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 147 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	311	345	411	311	196	143	126	98	116	106	151	222
100%	673	990	1,122	1,071	658	376	396	187	421	351	459	760
98%	615	675	1,079	775	548	368	364	174	319	307	427	623
95%	555	580	970	656	469	305	346	166	263	270	354	511
90%	495	546	573	543	330	282	182	152	202	185	293	365
75%	401	436	493	358	216	161	136	111	135	104	176	271
50%	315	328	373	261	153	119	102	92	84	78	112	178
25%	200	228	283	191	117	87	86	73	69	70	83	127
10%	158	190	195	146	89	71	66	65	63	60	67	98
5%	89	163	124	138	75	62	65	56	61	55	62	81
2%	83	124	120	81	66	55	64	55	59	54	55	75
0%	82	116	115	63	65	55	64	53	55	52	54	60

Monthly Flows (in CFS) for
02424000 - Cahaba River at Centreville, Ala.

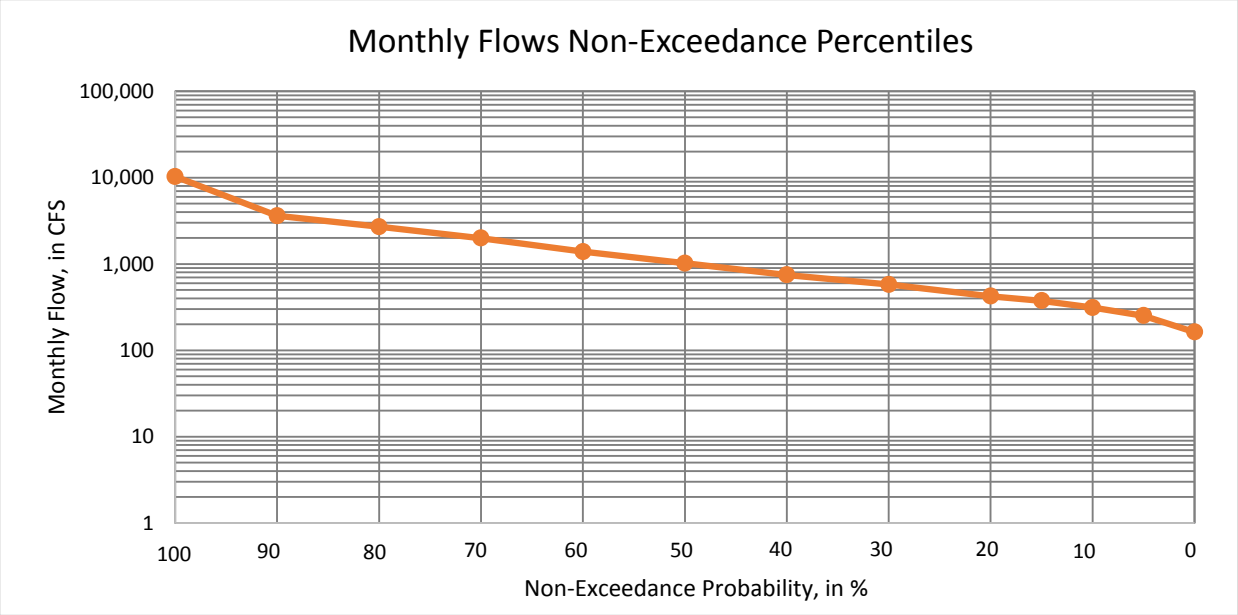
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,621	4,821	4,214	3,324	1,436	738	1,208	1,182	973	1,757	925	1,661	2,225
1976	3,997	1,548	10,290	3,339	3,964	1,075	592	589	565	342	429	1,091	2,335
1977	2,561	1,959	8,934	5,106	726	442	471	347	906	2,335	2,278	1,409	2,293
1978	3,325	1,341	2,192	934	2,542	2,055	498	403	296	225	250	676	1,231
1979	2,880	2,709	4,854	9,861	1,465	957	799	640	1,812	1,068	1,397	807	2,423
1980	3,008	2,681	9,825	4,769	2,306	770	492	378	356	720	629	469	2,202
1981	411	2,639	2,332	2,052	580	734	408	323	249	269	243	557	886
1982	2,599	3,982	1,775	3,895	1,323	1,234	741	675	296	344	608	5,218	1,878
1983	2,035	5,176	3,592	6,302	4,030	1,122	698	477	451	365	2,172	6,985	2,767
1984	2,925	1,724	2,202	2,790	2,196	632	589	771	397	645	824	1,618	1,443
1985	930	3,825	1,483	1,034	837	461	845	595	237	440	472	823	980
1986	421	796	694	251	284	249	266	270	252	380	1,785	1,744	614
1987	4,037	2,710	3,087	1,227	692	782	612	247	306	178	288	402	1,208
1988	1,502	1,140	774	925	361	182	277	184	621	361	1,385	904	714
1989	2,803	1,518	4,427	2,770	842	2,351	3,321	536	554	584	1,184	1,887	1,903
1990	5,370	9,156	4,273	1,352	1,049	578	512	292	237	259	321	857	1,978
1991	1,171	3,198	3,128	2,132	4,534	2,200	1,030	483	459	301	671	923	1,677
1992	1,634	2,828	1,851	1,421	483	396	469	700	1,346	339	2,878	2,998	1,433
1993	4,894	2,000	2,623	1,897	1,677	607	397	507	402	313	744	991	1,422
1994	1,942	2,380	3,535	2,831	785	753	1,138	493	912	1,274	901	2,444	1,612
1995	1,919	4,344	3,945	1,927	829	552	369	294	396	2,092	2,709	2,101	1,773
1996	4,279	4,011	5,114	1,852	890	584	990	697	539	574	864	1,349	1,803
1997	3,505	2,921	3,309	1,795	1,021	3,122	1,353	655	403	537	947	1,813	1,775
1998	6,120	5,245	3,765	2,559	947	638	581	614	745	361	617	1,017	1,916
1999	2,935	2,403	2,856	1,376	760	1,776	1,151	277	224	423	371	566	1,254
2000	1,161	709	2,656	4,392	396	323	259	343	181	162	505	385	954
2001	1,201	1,783	4,357	2,690	525	1,151	489	630	2,301	393	416	1,989	1,490
2002	3,601	2,095	2,363	1,151	1,120	474	679	279	1,211	1,064	2,026	3,194	1,605
2003	1,564	3,796	3,098	2,502	5,973	3,031	2,915	1,099	531	379	674	665	2,178
2004	1,325	3,188	1,435	1,046	958	665	669	428	2,028	433	3,947	2,457	1,531
2005	1,169	2,722	3,073	3,529	1,083	2,408	2,831	974	598	362	481	1,076	1,683
2006	2,273	3,578	2,811	1,461	1,563	422	386	404	370	550	808	715	1,265
2007	1,788	1,366	753	453	269	186	256	168	296	182	172	230	505
2008	475	1,662	1,214	1,539	1,574	375	266	1,018	315	209	188	1,169	829
2009	2,505	1,522	4,401	2,142	2,382	758	613	546	3,569	2,885	3,541	4,435	2,448
2010	2,910	3,693	5,102	1,491	1,454	985	456	577	286	324	579	782	1,544
2011	1,091	1,386	4,667	2,341	486	366	453	189	1,437	246	603	1,734	1,249
2012	2,775	2,056	3,230	973	623	273	469	1,150	860	701	319	2,134	1,298
2013	4,005	4,970	2,236	1,990	1,932	931	1,287	1,338	363	281	406	2,482	1,836
2014	1,550	2,489	3,003	5,927	1,334	1,091	434	360	391	452	998	2,901	1,734

Non-Exceedance Percentiles

02424000 - Cahaba River at Centreville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	411	709	694	251	269	182	256	168	181	162	172	230	505
5th %	473	1,123	773	901	357	246	265	189	236	182	240	401	709
10th %	1,075	1,364	1,413	969	475	318	276	267	248	223	284	548	881
15th %	1,168	1,498	1,731	1,044	519	374	383	278	281	257	321	650	976
20th %	1,195	1,543	2,124	1,212	614	417	406	293	296	279	399	707	1,226
30th %	1,560	1,906	2,354	1,449	777	528	465	356	344	334	479	847	1,288
40th %	1,933	2,266	2,838	1,829	870	622	491	419	394	361	606	1,006	1,471
Median	2,533	2,660	3,093	2,021	1,035	736	585	500	427	380	672	1,259	1,609
60th %	2,834	2,764	3,399	2,405	1,327	775	635	582	545	436	840	1,690	1,750
70th %	2,957	3,312	4,026	2,776	1,494	1,012	758	633	658	557	962	1,918	1,849
80th %	3,680	3,856	4,406	3,377	1,985	1,168	1,052	697	924	705	1,475	2,447	2,018
90th %	4,313	4,836	5,103	4,803	2,684	2,215	1,294	1,026	1,475	1,322	2,321	3,018	2,298
Maximum	6,120	9,156	10,290	9,861	5,973	3,122	3,321	1,338	3,569	2,885	3,947	6,985	2,767
Average	2,530	2,852	3,487	2,534	1,456	961	807	553	717	628	1,039	1,691	1,597

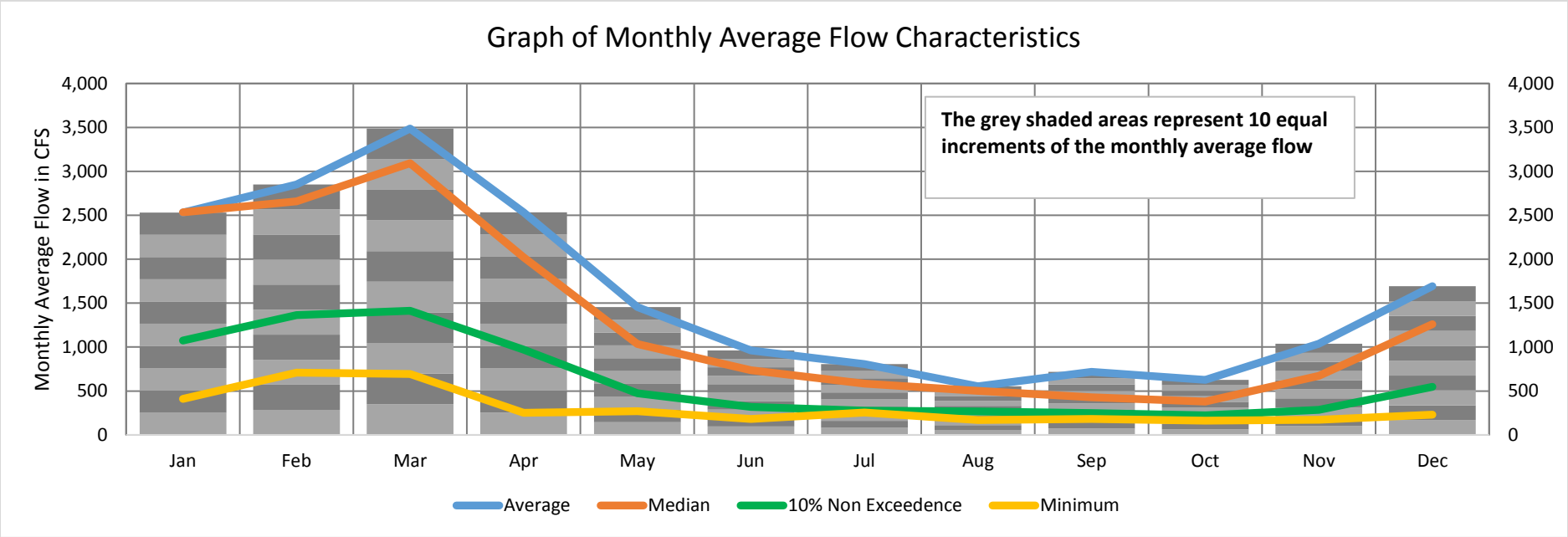
	Flows in CFS
Minimum	162.4
5th %	252
10th %	312
15th %	374
20th %	423
30th %	579
40th %	745
Median	1,020
60th %	1,385
70th %	1,989
80th %	2,694
90th %	3,610
Maximum	10,290
Average	1,604



Q10/Q50	0.31
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.16
Q5/DA	0.25
Q10/DA	0.30
Q15/DA	0.36
Q20/DA	0.41
Q30/DA	0.56
Q40/DA	0.73
Q50/DA	0.99
Q60/DA	1.35
Q70/DA	1.94
Q80/DA	2.62
Q90/DA	3.52
Qmax/DA	10.02

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

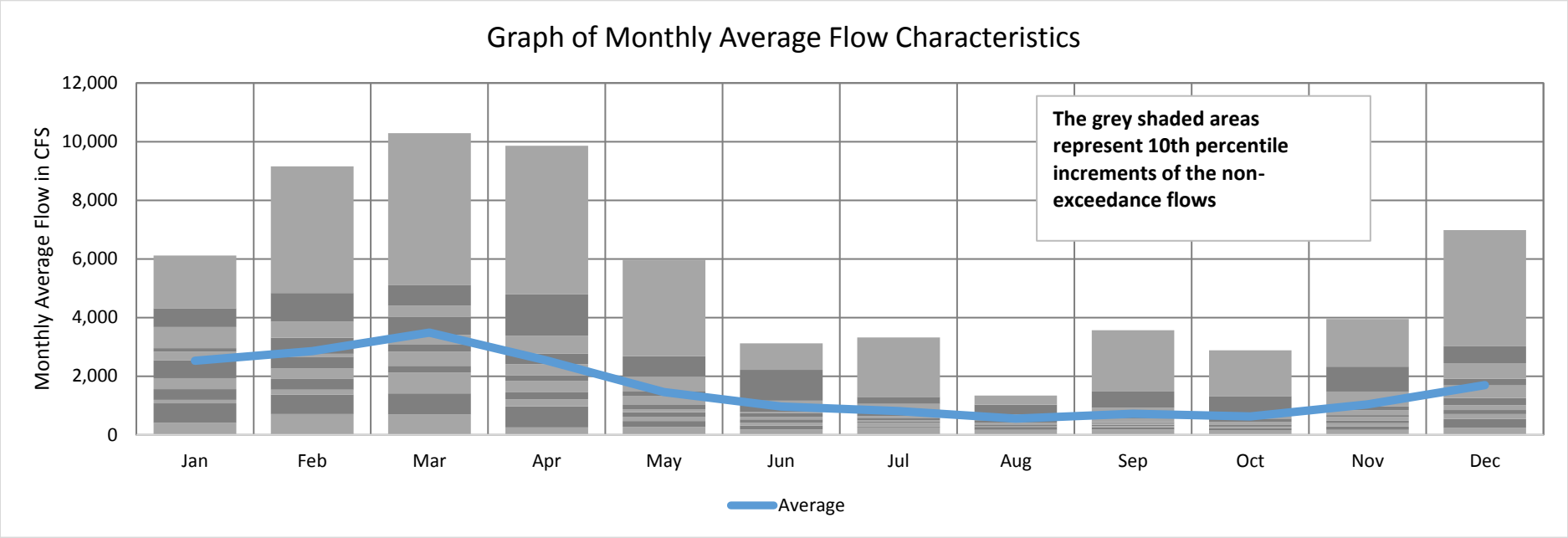
Site #: 02424000 Name: Cahaba River at Centreville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,530	2,852	3,487	2,534	1,456	961	807	553	717	628	1,039	1,691
100%	6,120	9,156	10,290	9,861	5,973	3,122	3,321	1,338	3,569	2,885	3,947	6,985
98%	5,535	6,105	9,927	7,085	4,851	3,051	3,004	1,216	2,580	2,456	3,630	5,607
95%	4,918	5,179	8,979	5,946	4,055	2,439	2,835	1,152	2,042	2,104	2,911	4,474
90%	4,313	4,836	5,103	4,803	2,684	2,215	1,294	1,026	1,475	1,322	2,321	3,018
75%	3,370	3,719	4,294	2,954	1,600	1,099	882	660	872	599	1,234	2,109
50%	2,533	2,660	3,093	2,021	1,035	736	585	500	427	380	672	1,259
25%	1,458	1,709	2,228	1,370	717	456	448	338	304	310	425	801
10%	1,075	1,364	1,413	969	475	318	276	267	248	223	284	548
5%	473	1,123	773	901	357	246	265	189	236	182	240	401
2%	419	777	740	408	281	185	258	181	214	174	185	351
0%	411	709	694	251	269	182	256	168	181	162	172	230

Site #: 02424000 Name: Cahaba River at Centreville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,027 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,530	2,852	3,487	2,534	1,456	961	807	553	717	628	1,039	1,691
100%	6,120	9,156	10,290	9,861	5,973	3,122	3,321	1,338	3,569	2,885	3,947	6,985
98%	5,535	6,105	9,927	7,085	4,851	3,051	3,004	1,216	2,580	2,456	3,630	5,607
95%	4,918	5,179	8,979	5,946	4,055	2,439	2,835	1,152	2,042	2,104	2,911	4,474
90%	4,313	4,836	5,103	4,803	2,684	2,215	1,294	1,026	1,475	1,322	2,321	3,018
75%	3,370	3,719	4,294	2,954	1,600	1,099	882	660	872	599	1,234	2,109
50%	2,533	2,660	3,093	2,021	1,035	736	585	500	427	380	672	1,259
25%	1,458	1,709	2,228	1,370	717	456	448	338	304	310	425	801
10%	1,075	1,364	1,413	969	475	318	276	267	248	223	284	548
5%	473	1,123	773	901	357	246	265	189	236	182	240	401
2%	419	777	740	408	281	185	258	181	214	174	185	351
0%	411	709	694	251	269	182	256	168	181	162	172	230

Monthly Flows (in CFS) for
02424500 - Cahaba River at Sprott, Ala.

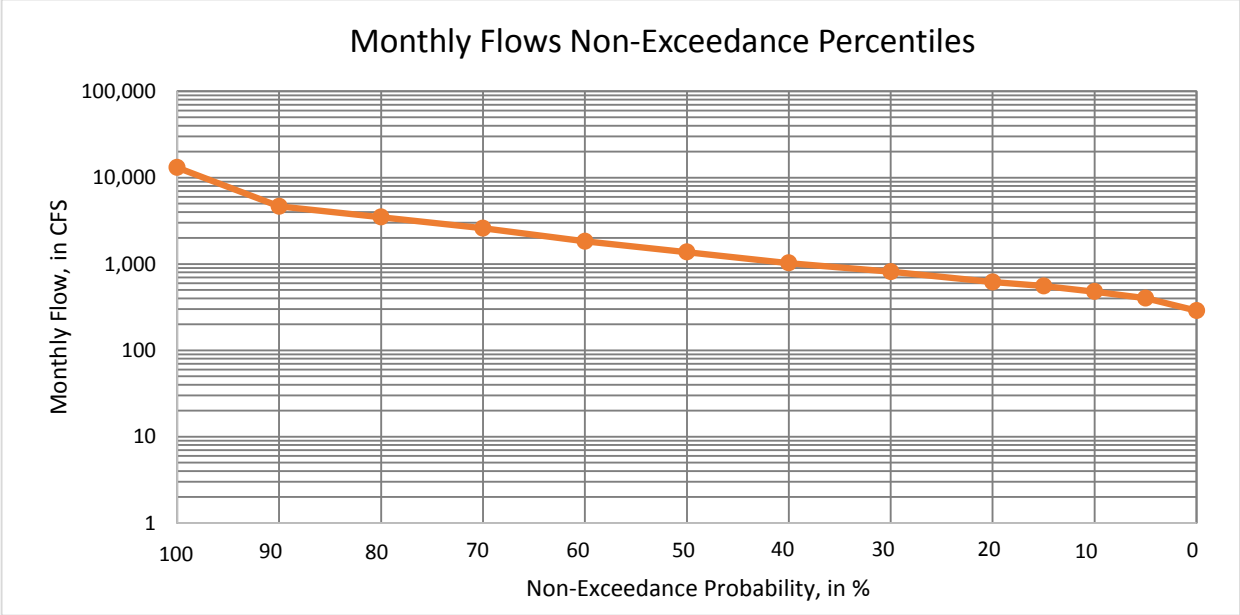
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	5,912	6,164	5,399	4,276	1,894	1,015	1,607	1,574	1,311	2,299	1,250	2,178	2,890
1976	5,125	2,036	13,063	4,295	5,083	1,439	830	826	796	514	624	1,459	3,029
1977	3,313	2,554	11,352	6,524	998	640	677	521	1,226	3,028	2,957	1,860	2,976
1978	4,277	1,775	2,848	1,261	3,290	2,675	711	592	456	367	398	936	1,636
1979	3,716	3,500	6,206	12,521	1,931	1,291	1,091	891	2,369	1,430	1,845	1,101	3,140
1980	3,877	3,465	12,476	6,099	2,992	1,054	703	560	533	991	877	674	2,861
1981	602	3,412	3,025	2,671	814	1,009	598	490	398	422	390	786	1,201
1982	3,361	5,106	2,322	4,996	1,752	1,640	1,018	934	457	517	850	6,665	2,452
1983	2,650	6,612	4,614	8,032	5,166	1,498	963	684	652	543	2,823	8,894	3,573
1984	3,773	2,258	2,861	3,602	2,853	880	826	1,056	584	897	1,123	2,124	1,904
1985	1,256	4,908	1,954	1,387	1,139	665	1,149	833	382	638	679	1,122	1,320
1986	614	1,088	958	399	442	397	418	423	401	563	2,335	2,283	858
1987	5,175	3,501	3,977	1,631	956	1,070	855	395	470	307	447	590	1,607
1988	1,978	1,521	1,059	1,249	538	312	433	316	866	538	1,830	1,223	983
1989	3,619	1,998	5,667	3,577	1,145	3,049	4,272	759	782	819	1,577	2,463	2,484
1990	6,857	11,632	5,473	1,788	1,406	812	729	451	381	409	489	1,163	2,578
1991	1,560	4,117	4,029	2,772	5,802	2,858	1,382	692	661	462	929	1,247	2,198
1992	2,144	3,650	2,418	1,876	693	582	675	966	1,781	510	3,713	3,865	1,891
1993	6,256	2,606	3,392	2,476	2,198	849	584	723	590	478	1,022	1,333	1,877
1994	2,533	3,085	4,542	3,654	1,073	1,032	1,519	705	1,233	1,690	1,220	3,166	2,117
1995	2,504	5,562	5,059	2,514	1,128	779	549	453	583	2,722	3,500	2,733	2,320
1996	5,481	5,142	6,534	2,419	1,205	820	1,332	962	763	808	1,173	1,785	2,358
1997	4,504	3,768	4,257	2,347	1,371	4,021	1,790	910	592	761	1,277	2,370	2,322
1998	7,803	6,699	4,832	3,311	1,278	888	816	858	1,023	539	861	1,366	2,499
1999	3,785	3,114	3,686	1,819	1,041	2,323	1,535	432	366	616	551	797	1,665
2000	1,548	977	3,433	5,623	582	490	410	516	311	288	720	568	1,286
2001	1,598	2,332	5,579	3,476	745	1,535	700	877	2,986	578	607	2,592	1,962
2002	4,625	2,726	3,064	1,535	1,496	681	940	435	1,611	1,425	2,639	4,112	2,108
2003	2,056	4,871	3,991	3,239	7,617	3,906	3,760	1,469	753	561	933	921	2,830
2004	1,754	4,104	1,893	1,403	1,292	922	926	623	2,641	629	5,062	3,182	2,014
2005	1,558	3,517	3,959	4,534	1,449	3,120	3,654	1,311	838	540	690	1,440	2,206
2006	2,950	4,596	3,629	1,926	2,055	616	570	593	550	776	1,102	985	1,679
2007	2,338	1,806	1,032	654	422	317	406	296	456	313	300	373	720
2008	683	2,180	1,614	2,024	2,069	556	419	1,367	481	346	321	1,558	1,129
2009	3,243	2,003	5,634	2,785	3,088	1,039	856	772	4,585	3,722	4,550	5,677	3,171
2010	3,754	4,741	6,519	1,964	1,917	1,326	658	811	443	491	814	1,070	2,030
2011	1,459	1,831	5,970	3,036	696	545	654	322	1,896	393	844	2,270	1,659
2012	3,583	2,676	4,157	1,311	868	427	675	1,534	1,168	968	485	2,775	1,721
2013	5,135	6,352	2,904	2,593	2,520	1,257	1,707	1,771	541	438	595	3,214	2,399
2014	2,038	3,223	3,871	7,559	1,766	1,459	631	537	577	653	1,342	3,742	2,271

Non-Exceedance Percentiles

02424500 - Cahaba River at Sprott, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	602	977	958	399	422	312	406	296	311	288	300	373	720
5th %	679	1,499	1,058	1,220	533	393	418	321	381	312	386	589	977
10th %	1,439	1,803	1,865	1,306	682	484	431	420	396	365	442	775	1,194
15th %	1,556	1,973	2,267	1,400	737	554	567	434	437	407	488	903	1,315
20th %	1,590	2,029	2,762	1,612	858	609	595	453	456	435	586	975	1,630
30th %	2,051	2,488	3,052	1,911	1,063	749	670	532	517	505	687	1,151	1,708
40th %	2,521	2,941	3,663	2,390	1,181	868	702	611	580	539	848	1,353	1,939
Median	3,278	3,438	3,984	2,632	1,389	1,012	821	714	622	562	931	1,671	2,112
60th %	3,658	3,570	4,371	3,117	1,757	1,060	884	817	771	633	1,143	2,215	2,290
70th %	3,813	4,261	5,161	3,585	1,968	1,360	1,040	881	914	786	1,297	2,502	2,415
80th %	4,725	4,947	5,641	4,343	2,587	1,556	1,410	963	1,248	972	1,943	3,169	2,628
90th %	5,524	6,183	6,520	6,141	3,469	2,877	1,715	1,377	1,943	1,751	3,011	3,889	2,981
Maximum	7,803	11,632	13,063	12,521	7,617	4,021	4,272	1,771	4,585	3,722	5,062	8,894	3,573
Average	3,275	3,680	4,481	3,279	1,919	1,295	1,101	781	987	875	1,393	2,217	2,098

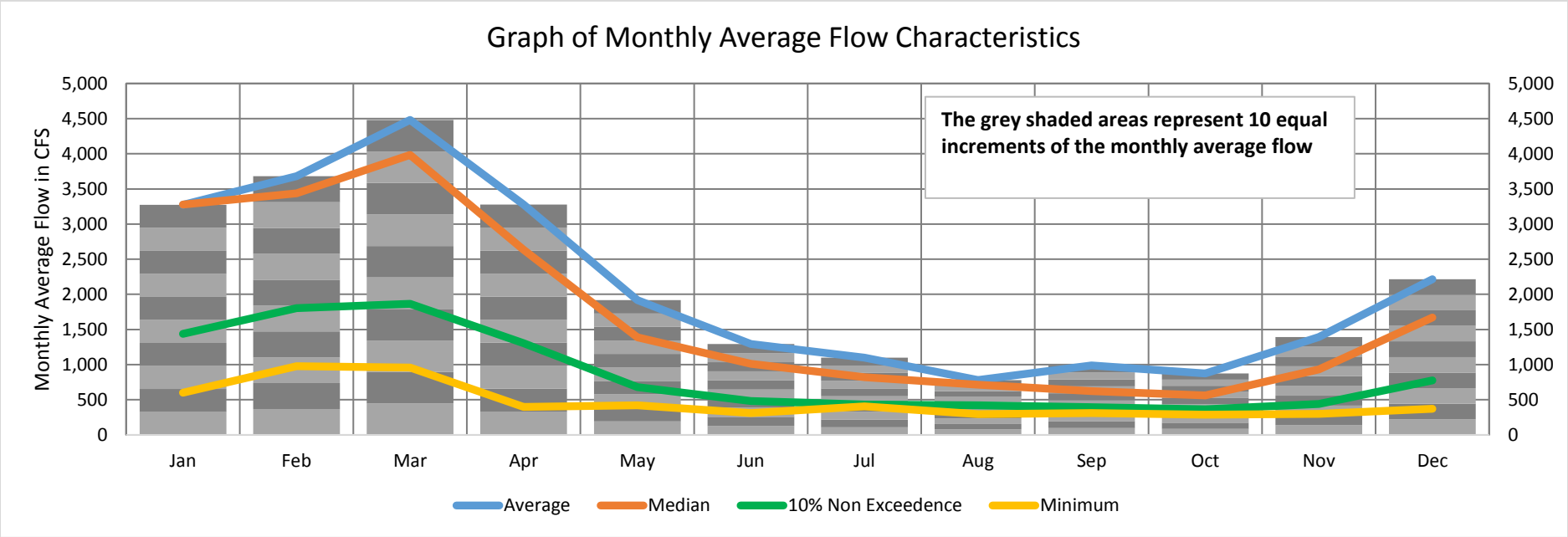
	Flows in CFS
Minimum	288.0
5th %	401
10th %	477
15th %	555
20th %	616
30th %	813
40th %	1,023
Median	1,369
60th %	1,831
70th %	2,592
80th %	3,481
90th %	4,637
Maximum	13,063
Average	2,107



Q10/Q50	0.35
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.21
Q5/DA	0.29
Q10/DA	0.35
Q15/DA	0.41
Q20/DA	0.45
Q30/DA	0.59
Q40/DA	0.75
Q50/DA	1.00
Q60/DA	1.34
Q70/DA	1.89
Q80/DA	2.54
Q90/DA	3.38
Qmax/DA	9.53

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

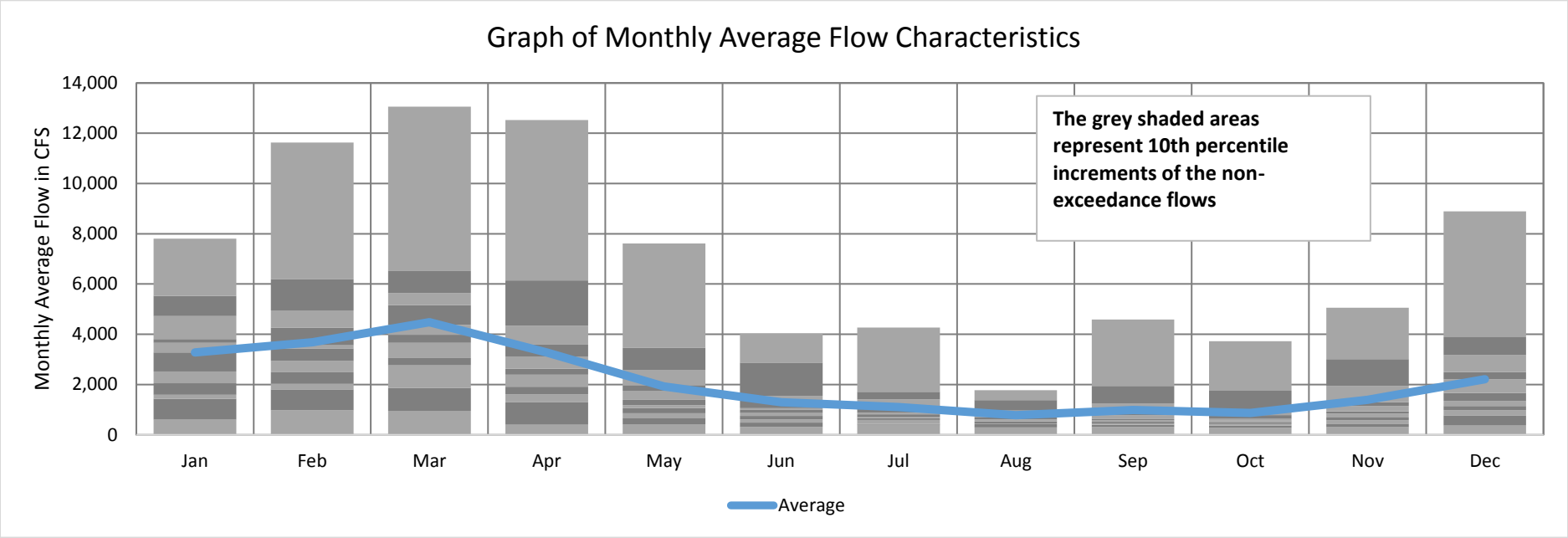
Site #: 02424500 Name: Cahaba River at Sprott, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,275	3,680	4,481	3,279	1,919	1,295	1,101	781	987	875	1,393	2,217
100%	7,803	11,632	13,063	12,521	7,617	4,021	4,272	1,771	4,585	3,722	5,062	8,894
98%	7,065	7,784	12,605	9,020	6,201	3,932	3,873	1,617	3,337	3,181	4,662	7,155
95%	6,286	6,616	11,408	7,583	5,198	3,160	3,659	1,536	2,658	2,737	3,755	5,727
90%	5,524	6,183	6,520	6,141	3,469	2,877	1,715	1,377	1,943	1,751	3,011	3,889
75%	4,334	4,774	5,499	3,810	2,101	1,469	1,195	916	1,183	839	1,640	2,744
50%	3,278	3,438	3,984	2,632	1,389	1,012	821	714	622	562	931	1,671
25%	1,922	2,238	2,893	1,811	988	659	648	509	466	474	620	1,093
10%	1,439	1,803	1,865	1,306	682	484	431	420	396	365	442	775
5%	679	1,499	1,058	1,220	533	393	418	321	381	312	386	589
2%	611	1,063	1,016	598	437	316	409	311	354	303	316	526
0%	602	977	958	399	422	312	406	296	311	288	300	373

Site #: 02424500 Name: Cahaba River at Sprott, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,370 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,275	3,680	4,481	3,279	1,919	1,295	1,101	781	987	875	1,393	2,217
100%	7,803	11,632	13,063	12,521	7,617	4,021	4,272	1,771	4,585	3,722	5,062	8,894
98%	7,065	7,784	12,605	9,020	6,201	3,932	3,873	1,617	3,337	3,181	4,662	7,155
95%	6,286	6,616	11,408	7,583	5,198	3,160	3,659	1,536	2,658	2,737	3,755	5,727
90%	5,524	6,183	6,520	6,141	3,469	2,877	1,715	1,377	1,943	1,751	3,011	3,889
75%	4,334	4,774	5,499	3,810	2,101	1,469	1,195	916	1,183	839	1,640	2,744
50%	3,278	3,438	3,984	2,632	1,389	1,012	821	714	622	562	931	1,671
25%	1,922	2,238	2,893	1,811	988	659	648	509	466	474	620	1,093
10%	1,439	1,803	1,865	1,306	682	484	431	420	396	365	442	775
5%	679	1,499	1,058	1,220	533	393	418	321	381	312	386	589
2%	611	1,063	1,016	598	437	316	409	311	354	303	316	526
0%	602	977	958	399	422	312	406	296	311	288	300	373

Monthly Flows (in CFS) for
02424940 - Oakmulgee Creek near Augustin, Ala.

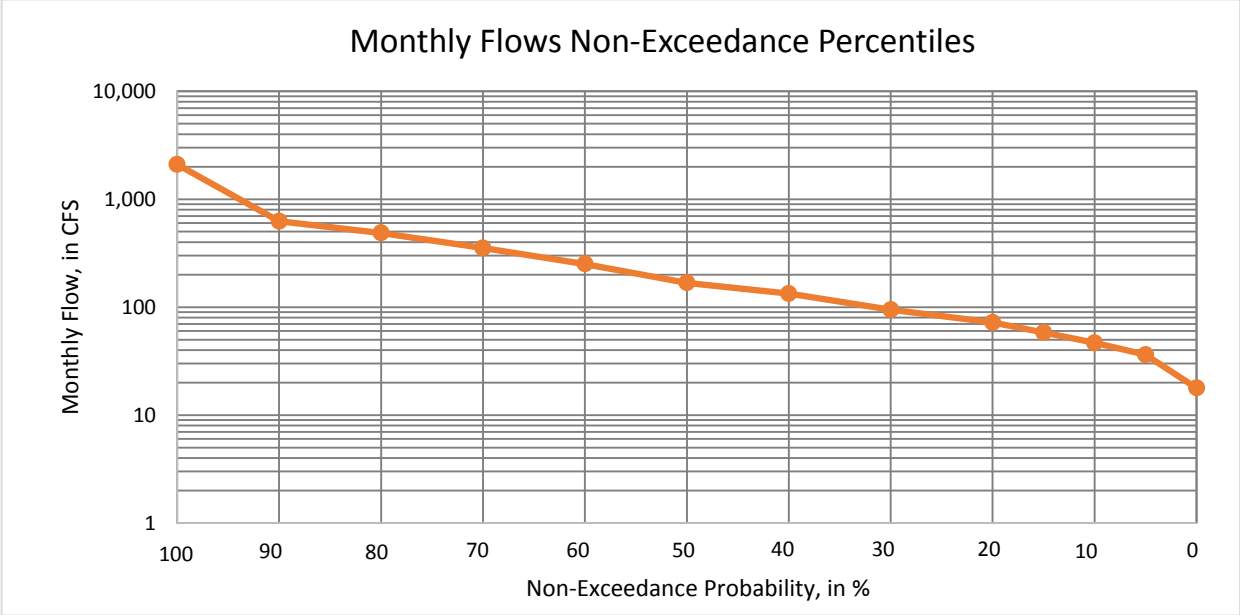
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	780	868	699	759	390	254	267	457	207	456	255	369	478
1976	850	396	1,304	831	699	141	87	135	131	76	149	336	429
1977	506	504	977	711	102	52	78	83	120	124	221	216	307
1978	554	379	377	333	589	117	48	59	58	42	51	156	230
1979	500	534	1,209	2,100	285	117	147	80	140	80	181	160	458
1980	387	341	1,299	886	435	129	58	41	36	88	83	89	323
1981	104	501	388	770	130	46	43	62	42	59	53	146	192
1982	666	842	353	606	208	143	128	121	47	63	119	618	323
1983	353	968	817	1,328	560	269	167	85	136	77	300	692	475
1984	525	417	496	414	297	80	69	137	40	153	169	275	256
1985	227	620	306	197	133	59	137	134	54	101	120	182	186
1986	138	181	138	64	130	57	30	24	38	40	541	509	157
1987	648	543	586	269	127	128	97	35	46	24	46	74	217
1988	301	265	137	159	61	25	55	29	121	72	208	149	131
1989	429	236	634	513	135	432	613	97	79	91	169	336	314
1990	923	1,439	842	308	244	101	92	46	35	37	55	147	349
1991	216	598	512	356	745	353	192	84	94	54	120	170	289
1992	288	518	328	233	82	62	65	115	208	60	428	524	241
1993	834	403	456	328	235	85	68	89	69	43	152	177	245
1994	292	439	612	485	145	124	255	99	130	178	123	371	270
1995	307	619	735	339	157	74	48	44	50	354	434	418	296
1996	565	841	867	393	162	129	159	133	97	94	134	226	314
1997	548	472	622	319	194	455	251	109	58	94	147	337	300
1998	997	837	798	407	168	120	107	98	126	81	104	155	331
1999	375	610	511	257	119	234	296	52	38	80	74	110	228
2000	224	132	468	664	79	57	31	42	20	20	78	77	157
2001	187	357	928	530	89	212	73	94	342	75	65	310	271
2002	528	368	368	189	134	55	81	33	168	151	322	560	246
2003	259	617	560	522	914	560	567	245	110	90	160	149	395
2004	263	592	274	216	166	104	95	66	323	82	568	439	263
2005	199	510	538	790	201	484	667	214	155	77	87	204	342
2006	402	599	495	243	251	54	44	47	43	62	141	135	208
2007	353	236	133	83	36	20	34	18	33	20	22	31	84
2008	78	307	238	254	232	61	30	147	48	24	21	152	131
2009	357	137	861	466	399	133	91	100	655	459	648	850	432
2010	602	725	832	257	246	164	69	80	42	41	83	132	270
2011	188	268	844	400	91	55	64	30	159	34	70	240	203
2012	419	329	560	160	83	40	41	165	215	95	52	303	205
2013	543	845	442	388	311	139	213	202	58	50	70	424	304
2014	297	415	503	870	289	172	75	44	47	63	122	297	265

Non-Exceedance Percentiles

02424940 - Oakmulgee Creek near Augustin, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	78	132	133	64	36	20	30	18	20	20	21	31	84
5th %	136	179	138	155	78	39	31	28	35	24	45	77	131
10th %	188	236	270	186	83	52	40	33	37	33	52	108	157
15th %	213	267	325	213	91	55	44	40	40	39	55	135	192
20th %	227	325	365	241	116	57	48	43	42	42	69	147	205
30th %	291	376	452	265	132	62	65	51	47	58	81	154	229
40th %	334	417	500	331	152	95	72	74	56	63	113	174	252
Median	381	502	549	390	181	119	84	85	74	76	122	221	270
60th %	457	538	616	435	233	129	96	97	114	81	148	299	298
70th %	532	602	754	524	261	142	140	111	131	91	169	336	314
80th %	572	641	842	721	327	216	196	134	156	96	228	419	333
90th %	785	842	933	835	563	361	270	169	209	156	429	528	430
Maximum	997	1,439	1,304	2,100	914	560	667	457	655	459	648	850	478
Average	430	520	601	485	251	152	143	99	115	99	174	281	278

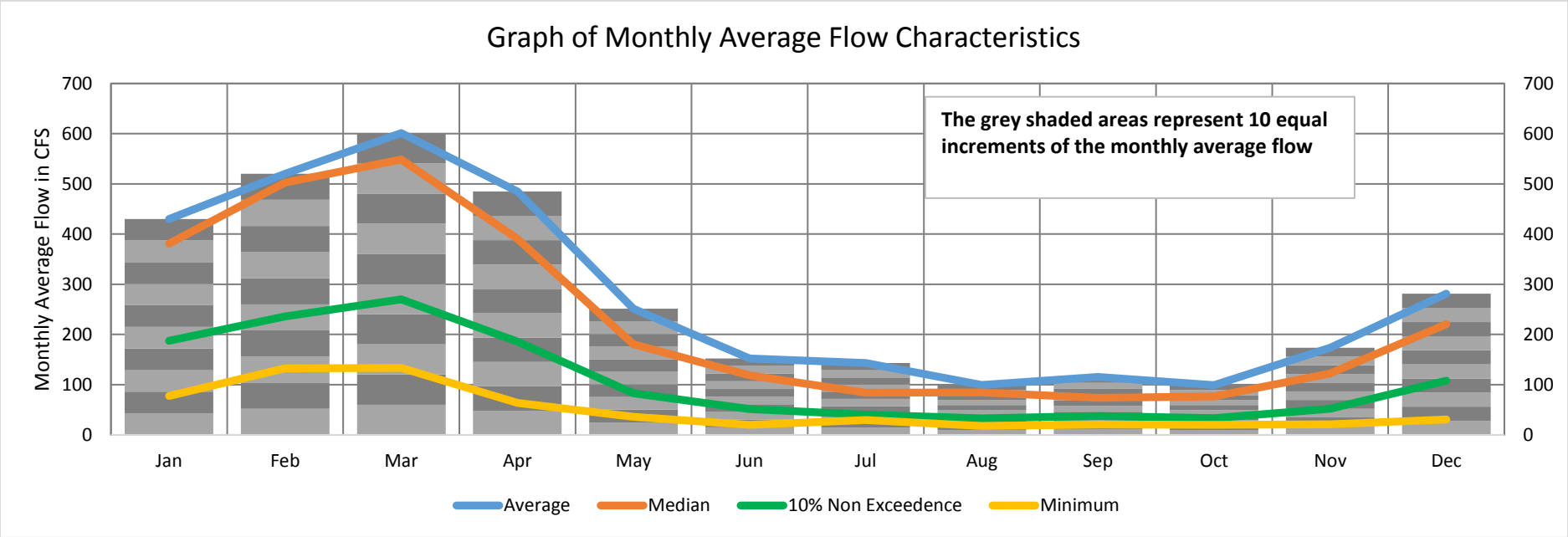
	Flows in CFS
Minimum	17.8
5th %	36
10th %	47
15th %	58
20th %	72
30th %	95
40th %	133
Median	168
60th %	251
70th %	353
80th %	487
90th %	623
Maximum	2,100
Average	279



Q10/Q50	0.28
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.08
Q5/DA	0.16
Q10/DA	0.21
Q15/DA	0.26
Q20/DA	0.33
Q30/DA	0.43
Q40/DA	0.61
Q50/DA	0.76
Q60/DA	1.14
Q70/DA	1.60
Q80/DA	2.21
Q90/DA	2.83
Qmax/DA	9.55

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

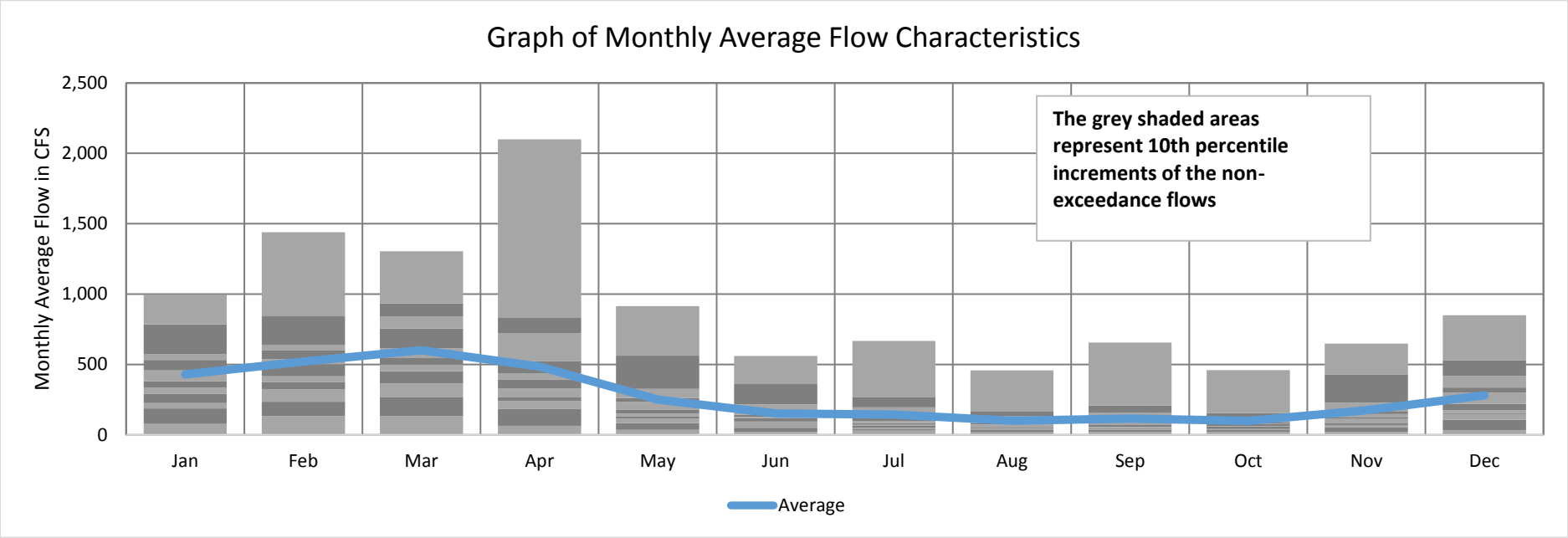
Site #: 02424940 Name: Oakmulgee Creek near Augustin, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	430	520	601	485	251	152	143	99	115	99	174	281
100%	997	1,439	1,304	2,100	914	560	667	457	655	459	648	850
98%	939	1,072	1,300	1,498	782	501	625	291	411	457	586	727
95%	854	873	1,214	908	701	457	570	216	324	359	542	622
90%	785	842	933	835	563	361	270	169	209	156	429	528
75%	549	618	821	621	291	166	161	124	137	94	188	370
50%	381	502	549	390	181	119	84	85	74	76	122	221
25%	262	353	385	256	129	59	58	46	45	48	73	149
10%	188	236	270	186	83	52	40	33	37	33	52	108
5%	136	179	138	155	78	39	31	28	35	24	45	77
2%	98	136	136	79	56	24	30	23	30	20	22	65
0%	78	132	133	64	36	20	30	18	20	20	21	31

Site #: 02424940 Name: Oakmulgee Creek near Augustin, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 220 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	430	520	601	485	251	152	143	99	115	99	174	281
100%	997	1,439	1,304	2,100	914	560	667	457	655	459	648	850
98%	939	1,072	1,300	1,498	782	501	625	291	411	457	586	727
95%	854	873	1,214	908	701	457	570	216	324	359	542	622
90%	785	842	933	835	563	361	270	169	209	156	429	528
75%	549	618	821	621	291	166	161	124	137	94	188	370
50%	381	502	549	390	181	119	84	85	74	76	122	221
25%	262	353	385	256	129	59	58	46	45	48	73	149
10%	188	236	270	186	83	52	40	33	37	33	52	108
5%	136	179	138	155	78	39	31	28	35	24	45	77
2%	98	136	136	79	56	24	30	23	30	20	22	65
0%	78	132	133	64	36	20	30	18	20	20	21	31

Monthly Flows (in CFS) for

02425000 - Cahaba River near Marion Junction, Ala. (represents streamflow for 03150202)

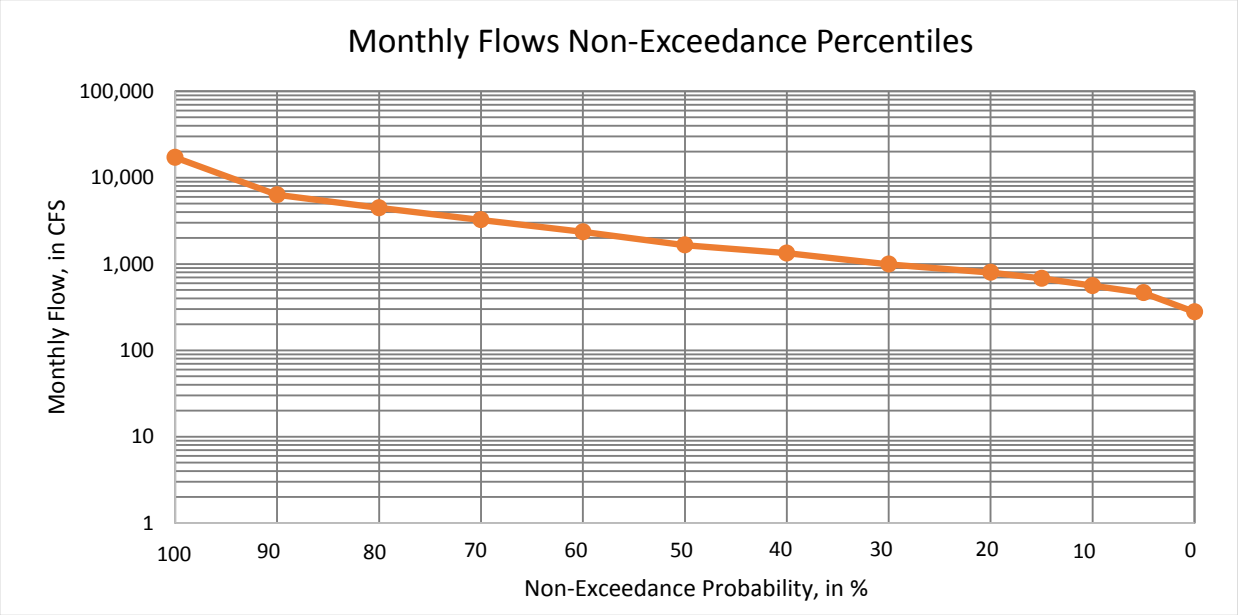
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	7,921	8,927	7,009	7,680	2,492	1,453	2,031	2,656	1,698	3,152	1,699	2,772	4,096
1976	7,639	3,197	13,770	8,485	6,574	1,846	1,176	1,369	1,235	703	961	2,238	4,117
1977	4,602	3,515	11,720	11,990	1,160	746	847	756	1,234	3,226	3,115	2,284	3,763
1978	5,570	2,738	3,869	2,211	5,084	2,892	757	683	517	451	490	1,197	2,208
1979	4,128	4,900	9,517	17,100	2,760	1,530	1,495	1,090	2,031	1,653	2,165	1,425	4,126
1980	4,432	4,102	14,970	9,779	4,274	1,441	903	716	606	1,212	1,196	936	3,716
1981	816	4,442	3,262	5,626	1,030	1,043	668	685	518	547	485	1,166	1,666
1982	5,378	7,577	3,609	6,280	2,403	1,790	1,182	1,142	520	630	950	7,726	3,240
1983	3,605	9,388	7,557	12,330	6,478	2,303	1,478	873	979	737	2,704	10,360	4,866
1984	5,673	3,333	4,327	4,693	3,991	1,080	976	1,525	659	1,234	1,452	2,943	2,659
1985	1,752	6,521	3,155	1,979	1,488	802	1,404	1,355	584	888	997	1,644	1,851
1986	1,016	1,598	1,496	645	878	621	462	450	519	632	3,609	4,089	1,332
1987	7,020	4,566	6,193	2,472	1,275	1,286	1,013	449	551	341	550	807	2,202
1988	2,880	2,534	1,363	1,563	690	348	636	388	1,218	791	2,011	1,470	1,315
1989	4,143	2,265	6,294	5,008	1,348	4,167	6,070	1,007	849	954	1,656	3,216	3,090
1990	9,570	15,960	8,629	2,943	2,337	1,048	965	556	445	468	636	1,458	3,678
1991	2,081	5,909	4,995	3,412	7,528	3,385	1,861	895	984	625	1,211	1,657	2,861
1992	2,751	5,057	3,142	2,241	878	701	722	1,169	2,010	680	4,131	5,122	2,363
1993	8,540	3,880	4,415	3,138	2,252	903	753	938	757	527	1,500	1,720	2,441
1994	2,796	4,243	6,059	4,710	1,433	1,245	2,445	1,029	1,306	1,736	1,237	3,565	2,643
1995	2,939	6,137	7,419	3,249	1,540	800	567	531	591	3,394	4,192	4,027	2,931
1996	5,549	8,619	8,924	3,783	1,590	1,292	1,561	1,332	1,007	982	1,334	2,171	3,148
1997	5,371	4,577	6,169	3,053	1,877	4,407	2,408	1,114	664	979	1,450	3,232	2,934
1998	10,450	8,574	8,127	3,922	1,639	1,216	1,101	1,019	1,270	867	1,072	1,522	3,372
1999	3,602	6,039	4,989	2,465	1,205	2,246	2,835	610	473	860	808	1,123	2,249
2000	2,159	1,324	4,538	6,621	850	654	410	510	305	302	838	831	1,609
2001	1,811	3,426	9,632	5,180	937	2,041	799	981	3,279	809	726	2,970	2,709
2002	5,161	3,531	3,529	1,830	1,334	637	866	433	1,640	1,494	3,079	5,496	2,417
2003	2,478	6,115	5,496	5,103	9,466	5,504	5,580	2,348	1,125	950	1,574	1,472	3,923
2004	2,514	5,847	2,619	2,082	1,622	1,068	991	736	3,096	871	5,588	4,242	2,576
2005	1,925	4,979	5,265	8,040	1,944	4,706	6,661	2,062	1,527	831	917	1,967	3,385
2006	3,874	5,913	4,818	2,334	2,406	625	535	561	525	701	1,399	1,347	2,064
2007	3,380	2,264	1,333	887	461	304	440	278	430	306	323	408	895
2008	838	2,937	2,281	2,432	2,228	688	399	1,453	566	343	313	1,495	1,321
2009	3,425	1,360	8,851	4,523	3,835	1,331	954	1,033	6,530	4,446	6,445	8,729	4,308
2010	5,952	7,300	8,513	2,462	2,358	1,606	762	853	513	506	886	1,322	2,730
2011	1,821	2,565	8,649	3,849	959	634	718	402	1,565	441	765	2,301	2,055
2012	4,042	3,153	5,505	1,573	886	491	504	1,617	2,073	990	610	2,900	2,029
2013	5,324	8,671	4,278	3,726	2,972	1,385	2,049	1,950	657	584	769	4,095	3,007
2014	2,841	4,005	4,900	8,955	2,769	1,682	817	535	557	702	1,228	2,839	2,636

Non-Exceedance Percentiles

02425000 - Cahaba River near Marion Junction, Ala. (represents streamflow for 03150202)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	816	1,324	1,333	645	461	304	399	278	305	302	313	408	895
5th %	1,007	1,586	1,489	1,529	842	484	439	401	445	339	476	830	1,321
10th %	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104	1,581
15th %	1,909	2,560	3,153	2,067	930	637	562	501	518	465	632	1,192	1,823
20th %	2,143	2,897	3,476	2,235	1,016	681	662	534	520	523	758	1,342	2,050
30th %	2,783	3,398	4,312	2,464	1,316	801	756	661	563	629	871	1,471	2,237
40th %	3,204	3,955	4,867	3,104	1,519	1,060	835	748	636	702	983	1,652	2,522
Median	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205	2,684
60th %	4,259	5,010	6,179	4,591	2,286	1,407	1,048	1,023	1,054	869	1,419	2,799	2,932
70th %	5,338	5,951	7,460	5,126	2,432	1,629	1,426	1,122	1,246	961	1,599	3,044	3,176
80th %	5,591	6,677	8,633	6,833	3,145	2,082	1,895	1,358	1,580	1,216	2,273	4,039	3,686
90th %	7,667	8,624	9,529	9,037	5,223	3,463	2,484	1,650	2,035	1,878	3,661	5,159	4,098
Maximum	10,450	15,960	14,970	17,100	9,466	5,504	6,661	2,656	6,530	4,446	6,445	10,360	4,866
Average	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807	2,763

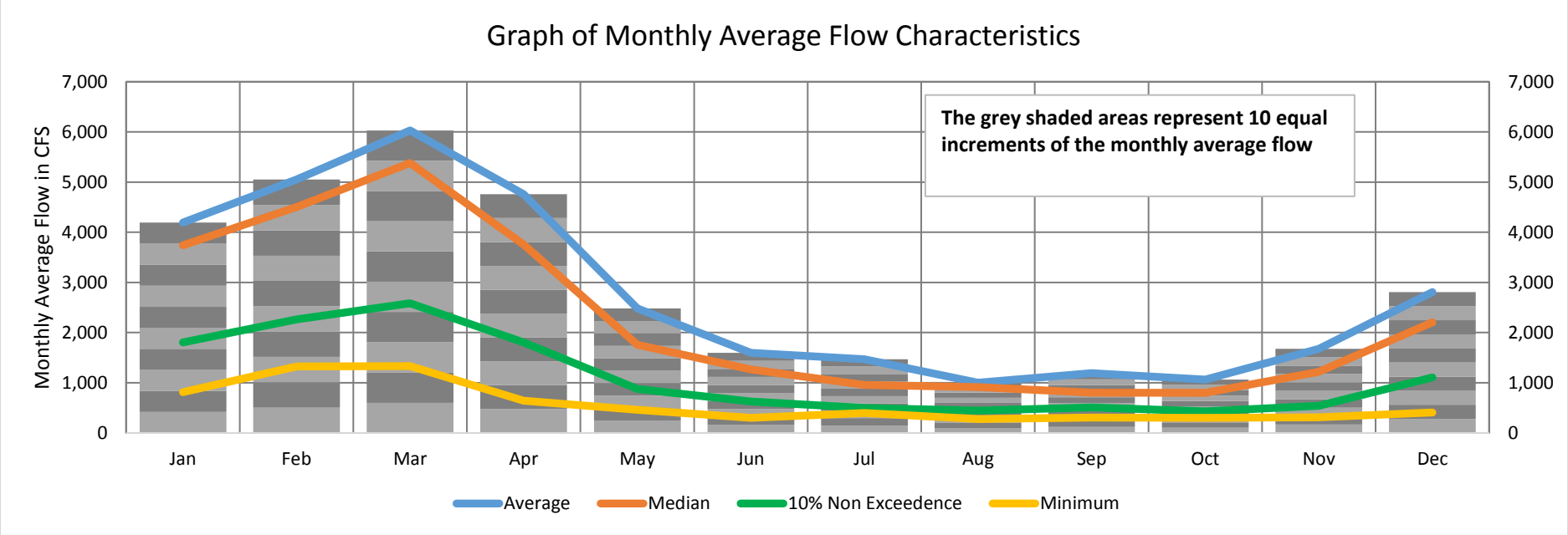
	Flows in CFS
Minimum	278.2
5th %	462
10th %	560
15th %	679
20th %	797
30th %	991
40th %	1,333
Median	1,655
60th %	2,352
70th %	3,237
80th %	4,461
90th %	6,309
Maximum	17,100
Average	2,777



Q10/Q50	0.34
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.16
Q5/DA	0.26
Q10/DA	0.32
Q15/DA	0.38
Q20/DA	0.45
Q30/DA	0.56
Q40/DA	0.75
Q50/DA	0.94
Q60/DA	1.33
Q70/DA	1.83
Q80/DA	2.53
Q90/DA	3.57
Qmax/DA	9.68

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

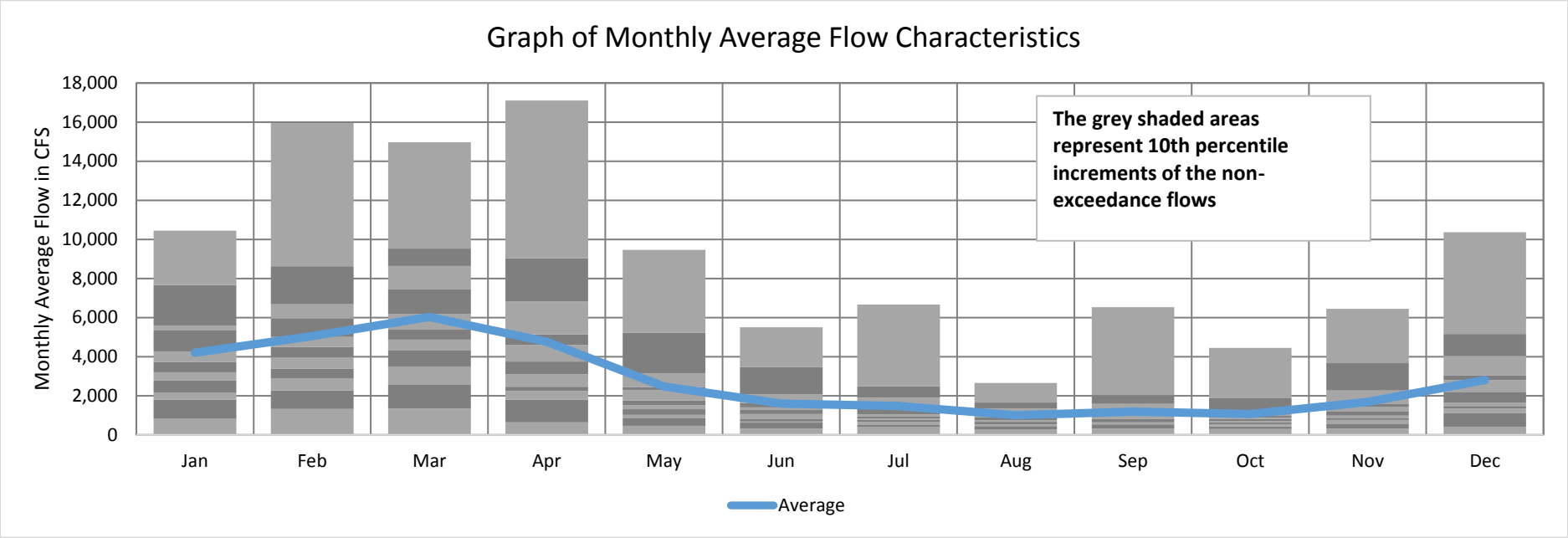
Site #: 02425000 Name: Cahaba River near Marion Junction, Ala. (represents streamflow for 03150202)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807
100%	10,450	15,960	14,970	17,100	9,466	5,504	6,661	2,656	6,530	4,446	6,445	10,360
98%	9,764	10,834	14,034	13,379	7,954	4,882	6,200	2,416	3,994	3,625	5,777	9,088
95%	8,592	8,950	11,823	12,007	6,622	4,422	5,605	2,076	3,105	3,234	4,262	7,776
90%	7,667	8,624	9,529	9,037	5,223	3,463	2,484	1,650	2,035	1,878	3,661	5,159
75%	5,421	6,121	8,224	5,790	2,762	1,804	1,512	1,210	1,361	984	1,777	3,315
50%	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205
25%	2,505	3,186	3,804	2,408	1,194	735	721	559	544	574	798	1,450
10%	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104
5%	1,007	1,586	1,489	1,529	842	484	439	401	445	339	476	830
2%	833	1,352	1,356	833	639	338	408	364	403	305	321	719
0%	816	1,324	1,333	645	461	304	399	278	305	302	313	408

Site #: 02425000 Name: Cahaba River near Marion Junction, Ala. (represents streamflow for 03150202)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,766 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	4,194	5,050	6,030	4,759	2,481	1,599	1,470	1,002	1,190	1,064	1,677	2,807
100%	10,450	15,960	14,970	17,100	9,466	5,504	6,661	2,656	6,530	4,446	6,445	10,360
98%	9,764	10,834	14,034	13,379	7,954	4,882	6,200	2,416	3,994	3,625	5,777	9,088
95%	8,592	8,950	11,823	12,007	6,622	4,422	5,605	2,076	3,105	3,234	4,262	7,776
90%	7,667	8,624	9,529	9,037	5,223	3,463	2,484	1,650	2,035	1,878	3,661	5,159
75%	5,421	6,121	8,224	5,790	2,762	1,804	1,512	1,210	1,361	984	1,777	3,315
50%	3,740	4,504	5,381	3,755	1,758	1,266	960	916	803	800	1,220	2,205
25%	2,505	3,186	3,804	2,408	1,194	735	721	559	544	574	798	1,450
10%	1,805	2,265	2,585	1,804	878	625	499	447	509	431	544	1,104
5%	1,007	1,586	1,489	1,529	842	484	439	401	445	339	476	830
2%	833	1,352	1,356	833	639	338	408	364	403	305	321	719
0%	816	1,324	1,333	645	461	304	399	278	305	302	313	408

Monthly Flows (in CFS) for
02425500 - Cedar Creek at Minter, Ala.

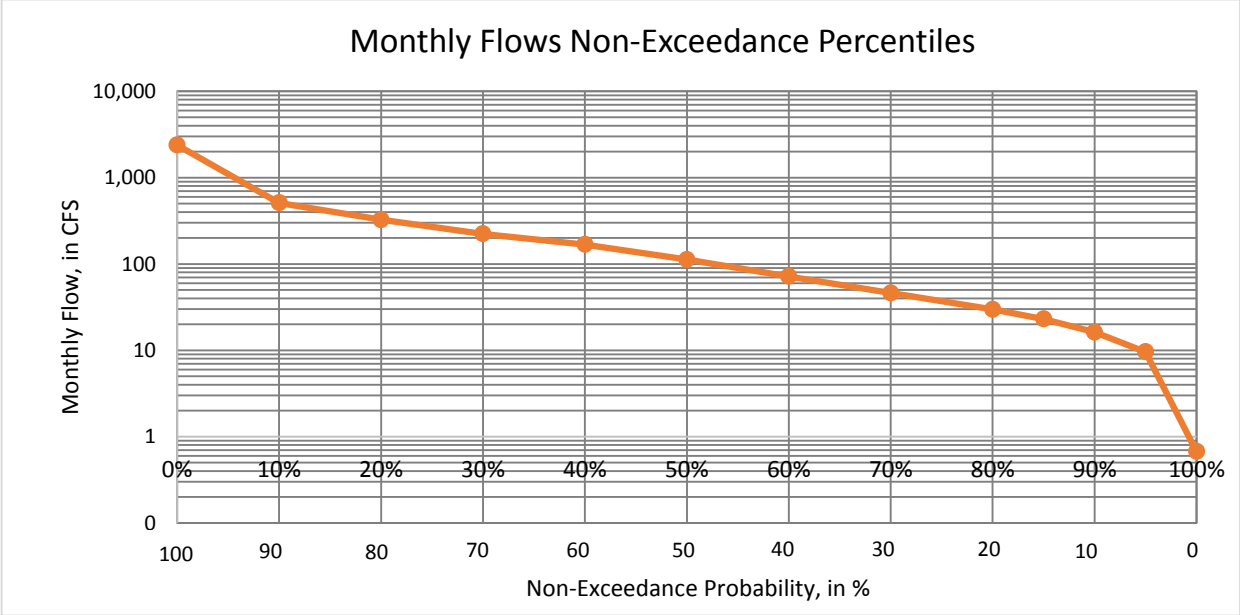
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	722	2,378	1,000	698	221	232	193	487	325	593	131	434	606
1976	625	364	1,274	395	516	142	45	38	139	29	256	386	352
1977	617	441	1,033	306	62	27	33	113	68	25	80	95	241
1978	917	259	269	491	780	473	68	61	19	11	33	136	294
1979	658	1,019	817	1,031	206	220	206	56	169	38	142	137	386
1980	349	374	1,278	948	688	116	52	21	15	18	22	29	326
1981	25	199	192	153	44	17	7	46	66	9	13	200	80
1982	347	990	366	615	241	55	61	41	12	15	43	162	240
1983	273	558	769	743	204	214	108	27	38	27	105	238	273
1984	365	267	462	284	201	53	48	215	29	43	64	136	181
1985	118	500	319	97	62	20	50	41	48	39	61	195	127
1986	162	327	452	79	52	39	16	12	54	8	71	136	116
1987	216	399	308	156	74	78	60	29	13	3	29	85	119
1988	280	256	342	123	30	10	44	15	107	66	100	69	119
1989	121	102	265	617	118	370	267	42	21	44	121	315	200
1990	719	767	1,077	186	136	50	38	15	5	5	6	23	250
1991	124	227	399	164	447	145	108	24	16	8	20	40	143
1992	414	686	200	101	27	205	66	84	40	20	562	536	242
1993	466	304	410	341	72	34	52	85	27	18	104	122	169
1994	249	346	299	257	90	78	720	111	43	62	43	98	199
1995	187	347	426	208	67	70	20	53	7	298	173	365	185
1996	392	407	505	509	149	95	74	43	63	46	39	98	200
1997	284	464	299	171	245	210	57	32	7	15	106	346	185
1998	633	447	910	148	57	17	18	13	314	657	42	47	275
1999	127	166	396	80	135	239	303	38	12	28	23	54	134
2000	70	66	122	58	11	6	3	4	8	1	26	99	39
2001	179	150	1,654	344	166	524	153	160	99	109	174	198	328
2002	154	194	416	171	46	29	44	32	44	167	218	273	149
2003	195	256	484	444	181	380	510	179	77	29	68	158	247
2004	195	444	156	69	97	98	88	36	274	133	316	260	178
2005	204	295	260	873	114	145	278	306	112	49	39	66	227
2006	171	245	154	43	80	16	9	12	8	17	100	61	75
2007	220	123	176	160	31	13	13	4	10	31	23	70	73
2008	296	358	208	176	41	9	32	168	42	12	35	194	130
2009	219	109	626	566	316	139	27	67	268	85	339	1,570	363
2010	701	640	510	99	171	47	19	19	9	6	16	28	187
2011	44	173	250	114	18	4	29	14	10	4	7	41	58
2012	72	222	101	43	70	94	31	75	192	41	21	103	88
2013	148	856	272	294	103	86	215	202	33	13	18	243	203
2014	246	511	401	1,031	525	101	33	22	17	18	26	139	253

Non-Exceedance Percentiles

02425500 - Cedar Creek at Minter, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	25	66	101	43	11	4	3	4	5	1	6	23	39
5th %	69	109	152	57	26	9	9	12	7	4	12	29	72
10th %	113	148	174	78	31	13	15	13	8	6	18	41	80
15th %	123	172	199	94	44	17	19	15	9	8	21	53	112
20th %	144	198	242	101	51	19	26	18	12	11	23	65	119
30th %	177	252	271	151	66	37	32	26	16	15	28	92	140
40th %	201	284	315	168	78	54	44	34	24	18	39	102	180
Median	233	347	398	197	109	82	51	41	39	27	52	136	193
60th %	282	384	420	299	141	99	60	49	46	33	75	160	212
70th %	354	445	490	409	187	143	78	69	67	43	104	198	243
80th %	496	520	778	576	225	211	161	111	108	63	133	263	274
90th %	663	775	1,037	756	454	252	268	181	199	137	221	367	330
Maximum	917	2,378	1,654	1,031	780	524	720	487	325	657	562	1,570	606
Average	313	431	496	335	172	122	105	76	71	71	95	200	206

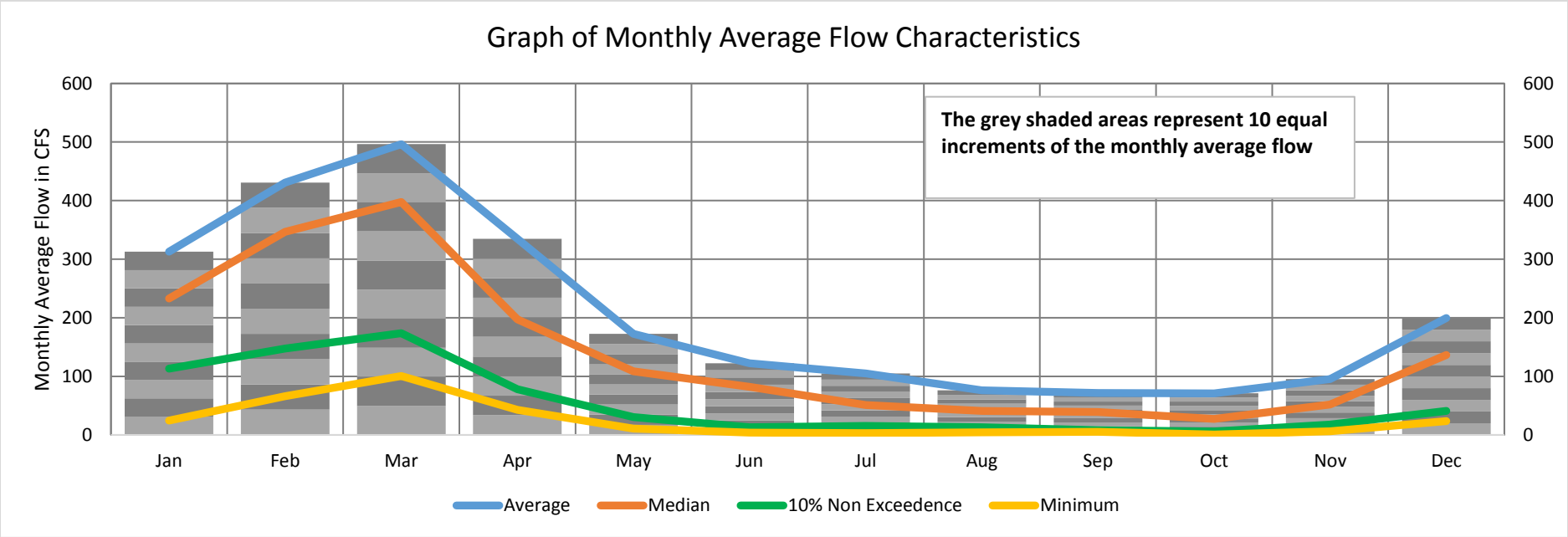
	Flows in CFS
Minimum	0.7
5th %	10
10th %	16
15th %	23
20th %	30
30th %	46
40th %	72
Median	112
60th %	168
70th %	223
80th %	325
90th %	510
Maximum	2,378
Average	207



Q10/Q50	0.14
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.00
Q5/DA	0.05
Q10/DA	0.08
Q15/DA	0.11
Q20/DA	0.14
Q30/DA	0.22
Q40/DA	0.34
Q50/DA	0.53
Q60/DA	0.80
Q70/DA	1.06
Q80/DA	1.54
Q90/DA	2.42
Qmax/DA	11.27

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

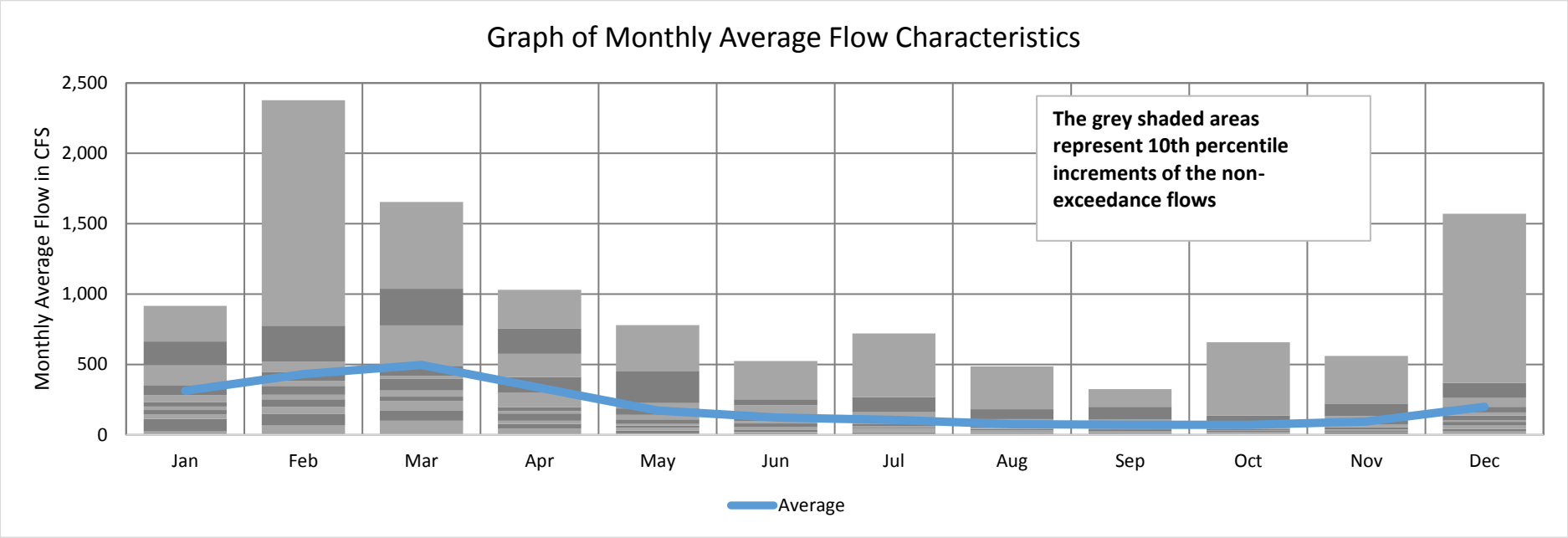
Site #: 02425500 Name: Cedar Creek at Minter, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	313	431	496	335	172	122	105	76	71	71	95	200
100%	917	2,378	1,654	1,031	780	524	720	487	325	657	562	1,570
98%	765	1,318	1,361	1,031	708	484	556	346	316	607	388	763
95%	719	991	1,274	952	534	385	313	220	276	312	317	439
90%	663	775	1,037	756	454	252	268	181	199	137	221	367
75%	398	473	539	496	205	160	108	84	83	46	110	239
50%	233	347	398	197	109	82	51	41	39	27	52	136
25%	160	225	264	121	61	28	30	21	13	13	25	70
10%	113	148	174	78	31	13	15	13	8.3	5.9	18	41
5%	69	109	152	57	26	9.2	8.9	12	7.1	3.9	12	29
2%	40	94	117	43	16	5.5	6.0	4.4	6.3	2.5	6.8	27
0%	25	66	101	43	11	4.0	3.2	4.4	5.4	0.7	6.3	23

Site #: 02425500 Name: Cedar Creek at Minter, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 211 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	313	431	496	335	172	122	105	76	71	71	95	200
100%	917	2,378	1,654	1,031	780	524	720	487	325	657	562	1,570
98%	765	1,318	1,361	1,031	708	484	556	346	316	607	388	763
95%	719	991	1,274	952	534	385	313	220	276	312	317	439
90%	663	775	1,037	756	454	252	268	181	199	137	221	367
75%	398	473	539	496	205	160	108	84	83	46	110	239
50%	233	347	398	197	109	82	51	41	39	27	52	136
25%	160	225	264	121	61	28	30	21	13	13	25	70
10%	113	148	174	78	31	13	15	13	8.3	5.9	18	41
5%	69	109	152	57	26	9.2	8.9	12	7.1	3.9	12	29
2%	40	94	117	43	16	5.5	6.0	4.4	6.3	2.5	6.8	27
0%	25	66	101	43	11	4.0	3.2	4.4	5.4	0.7	6.3	23

Monthly Flows (in CFS) for
02426000 - Bogue Chitto Creek near Browns, Ala.

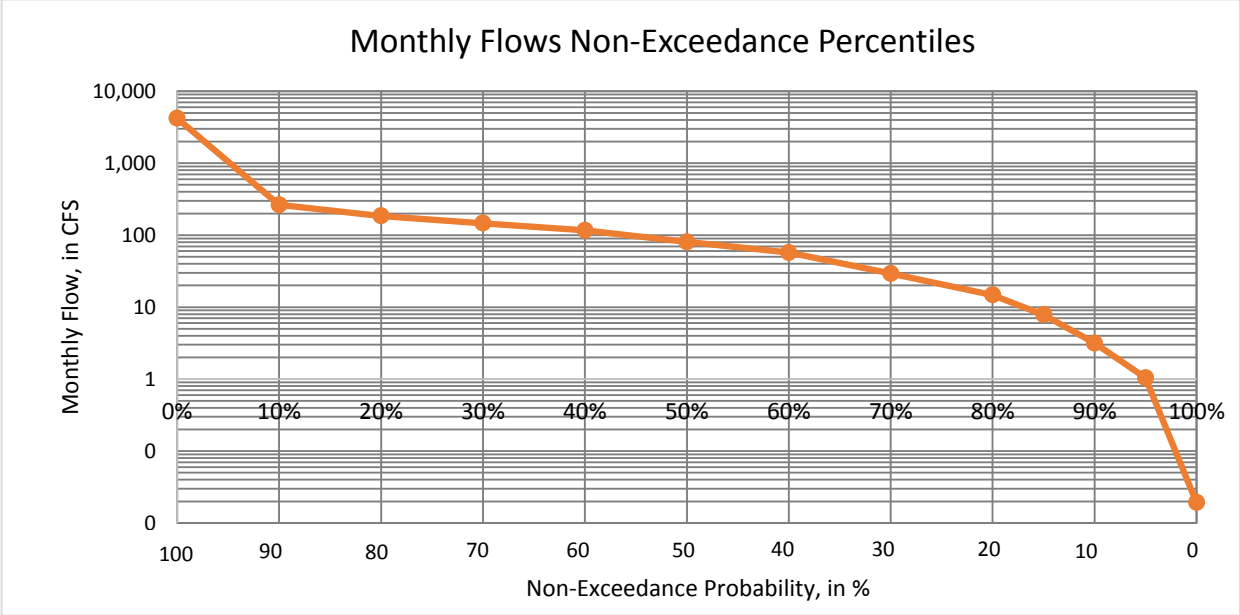
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	376	478	307	356	122	67	102	128	83	144	84	132	197
1976	353	146	1,684	430	279	92	45	60	49	9	27	112	276
1977	189	155	973	1,045	43	12	18	12	49	146	143	114	242
1978	227	131	166	111	207	136	12	8	2	1	1	46	87
1979	174	200	553	4,200	132	72	70	37	102	81	109	64	478
1980	184	173	2,336	590	178	66	22	10	5	48	46	25	309
1981	16	184	147	230	32	33	7	8	2	3	1	44	58
1982	219	348	158	262	119	89	45	42	2	6	26	360	138
1983	158	535	346	1,143	273	115	68	20	28	11	130	683	290
1984	232	150	180	193	169	37	28	72	7	49	66	138	110
1985	87	276	144	100	69	15	63	59	4	21	30	80	78
1986	31	77	70	6	20	5	1	1	2	6	158	172	46
1987	307	188	258	121	53	54	31	1	3	0	3	15	86
1988	136	124	60	74	8	0	6	0	48	14	101	68	53
1989	174	113	263	204	59	175	251	31	18	26	81	146	129
1990	560	3,066	445	138	116	34	27	3	1	1	6	67	353
1991	105	243	204	152	344	151	93	22	29	5	47	81	122
1992	131	206	144	112	20	9	10	44	101	8	174	209	96
1993	435	166	183	144	112	22	12	25	12	2	70	85	106
1994	133	177	251	193	65	50	120	32	55	86	50	157	114
1995	138	255	336	147	73	15	3	2	4	151	176	171	122
1996	226	444	478	163	76	54	74	57	31	29	57	109	148
1997	219	188	256	141	94	183	119	39	7	28	66	147	124
1998	699	439	395	167	80	48	38	32	52	20	36	72	172
1999	158	250	203	121	47	112	134	5	1	19	15	40	91
2000	108	57	187	282	18	7	0	2	0	0	17	17	58
2001	90	152	569	211	25	103	15	28	148	16	10	139	125
2002	210	156	155	91	57	6	19	1	80	70	142	224	101
2003	122	254	224	208	546	224	228	117	40	26	75	68	177
2004	123	240	127	105	79	36	29	11	142	20	228	177	108
2005	97	203	214	387	98	193	284	104	72	17	23	99	149
2006	166	243	197	116	119	5	2	3	2	9	62	58	81
2007	151	113	57	21	1	0	1	0	1	0	0	0	28
2008	17	137	114	120	111	8	0	67	3	0	0	70	54
2009	152	59	469	187	165	57	26	33	276	184	272	456	196
2010	245	327	433	121	117	77	12	19	2	2	21	56	118
2011	91	125	447	165	27	6	10	0	75	1	13	115	89
2012	171	144	224	75	21	2	2	78	104	29	5	136	83
2013	217	449	178	161	139	61	103	98	7	4	13	173	132
2014	134	170	200	481	132	82	16	2	3	9	49	134	117

Non-Exceedance Percentiles

02426000 - Bogue Chitto Creek near Browns, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	16	57	57	6	1	0	0	0	0	0	0	0	28
5th %	31	76	69	72	18	1	1	0	1	0	1	17	52
10th %	90	113	125	90	20	5	2	1	2	1	3	39	57
15th %	96	125	144	104	24	6	3	2	2	1	6	46	75
20th %	108	136	154	112	31	8	7	2	2	2	12	58	82
30th %	132	152	180	121	56	15	12	7	3	6	20	68	91
40th %	146	168	199	143	71	35	17	12	6	9	29	80	107
Median	162	186	219	162	87	52	27	23	15	15	48	110	118
60th %	178	204	257	189	114	63	34	32	34	20	64	133	124
70th %	217	245	339	209	120	79	65	40	50	27	77	141	141
80th %	228	286	445	297	144	105	95	59	76	48	113	171	181
90th %	355	444	554	492	214	154	122	80	102	92	159	210	278
Maximum	699	3,066	2,336	4,200	546	224	284	128	276	184	272	683	478
Average	194	289	358	332	111	63	54	33	41	32	66	131	141

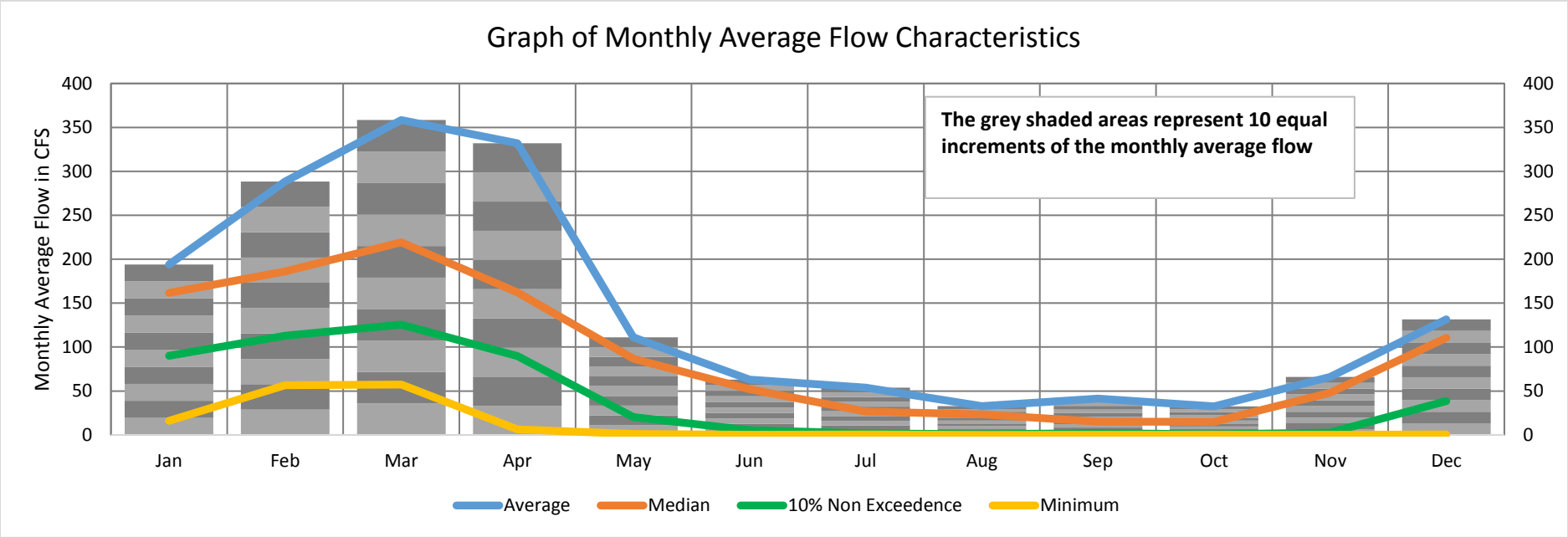
	Flows in CFS
Minimum	0.0
5th %	1
10th %	3
15th %	8
20th %	15
30th %	29
40th %	57
Median	81
60th %	117
70th %	147
80th %	185
90th %	264
Maximum	4,200
Average	142



Q10/Q50	0.04
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.01
Q10/DA	0.03
Q15/DA	0.08
Q20/DA	0.15
Q30/DA	0.31
Q40/DA	0.60
Q50/DA	0.85
Q60/DA	1.22
Q70/DA	1.54
Q80/DA	1.93
Q90/DA	2.77
Qmax/DA	44.03

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

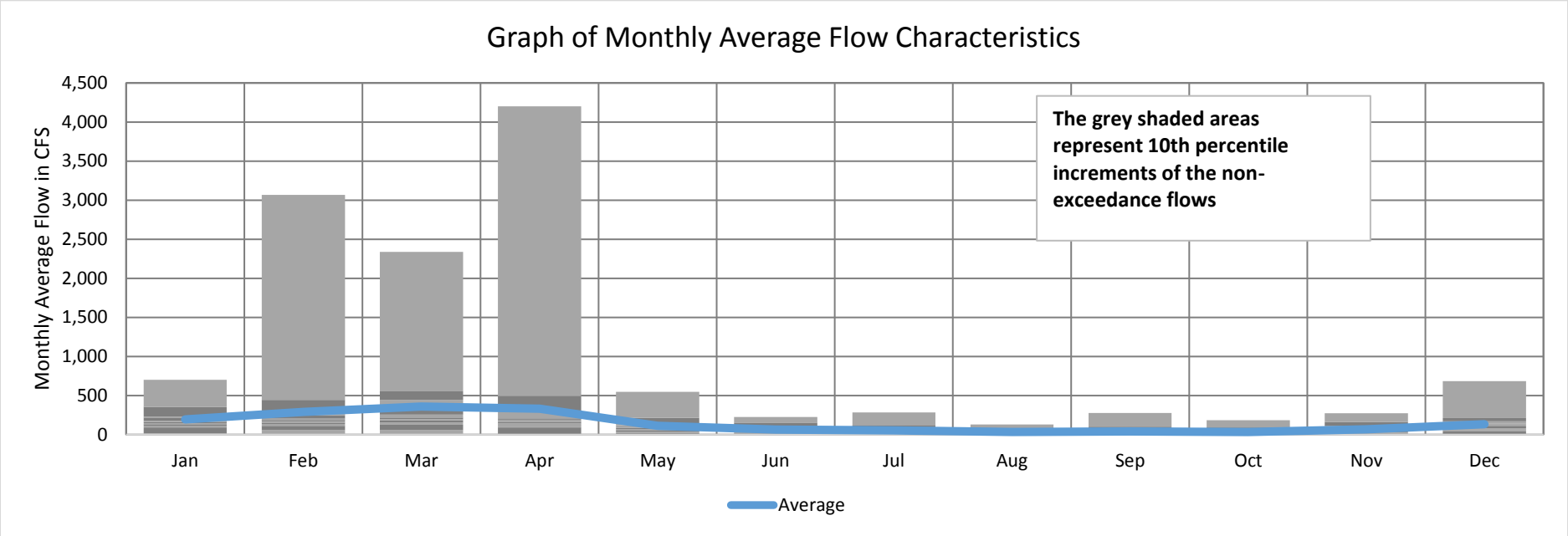
Site #: 02426000 Name: Bogue Chitto Creek near Browns, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	194	289	358	332	111	63	54	33	41	32	66	131
100%	699	3,066	2,336	4,200	546	224	284	128	276	184	272	683
98%	591	1,092	1,828	1,816	388	200	259	119	176	159	238	506
95%	442	481	1,008	1,049	282	183	229	104	143	147	178	365
90%	355	444	554	492	214	154	122	80	102	92	159	210
75%	221	254	404	238	132	90	71	47	59	29	88	149
50%	162	186	219	162	87	52	27	23	15	15	48	110
25%	123	145	164	119	46	11	10	3.1	2.7	3.6	15	66
10%	90	113	125	90	20	5.4	1.7	0.8	1.9	0.7	2.7	39
5%	31	76	69	72	18	1.4	0.7	0.4	0.8	0.1	1.3	17
2%	17	59	59	18	6.8	0.1	0.5	0.3	0.5	0.0	0.1	12
0%	16	57	57	6.2	1.0	0.0	0.4	0.0	0.0	0.0	0.1	0.5

Site #: 02426000 Name: Bogue Chitto Creek near Browns, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 95 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	194	289	358	332	111	63	54	33	41	32	66	131
100%	699	3,066	2,336	4,200	546	224	284	128	276	184	272	683
98%	591	1,092	1,828	1,816	388	200	259	119	176	159	238	506
95%	442	481	1,008	1,049	282	183	229	104	143	147	178	365
90%	355	444	554	492	214	154	122	80	102	92	159	210
75%	221	254	404	238	132	90	71	47	59	29	88	149
50%	162	186	219	162	87	52	27	23	15	15	48	110
25%	123	145	164	119	46	11	10	3.1	2.7	3.6	15	66
10%	90	113	125	90	20	5.4	1.7	0.8	1.9	0.7	2.7	39
5%	31	76	69	72	18	1.4	0.7	0.4	0.8	0.1	1.3	17
2%	17	59	59	18	6.8	0.1	0.5	0.3	0.5	0.0	0.1	12
0%	16	57	57	6.2	1.0	0.0	0.4	0.0	0.0	0.0	0.1	0.5

Monthly Flows (in CFS) for
02427000 - Bogue Chitto Creek near Orrville, Ala.

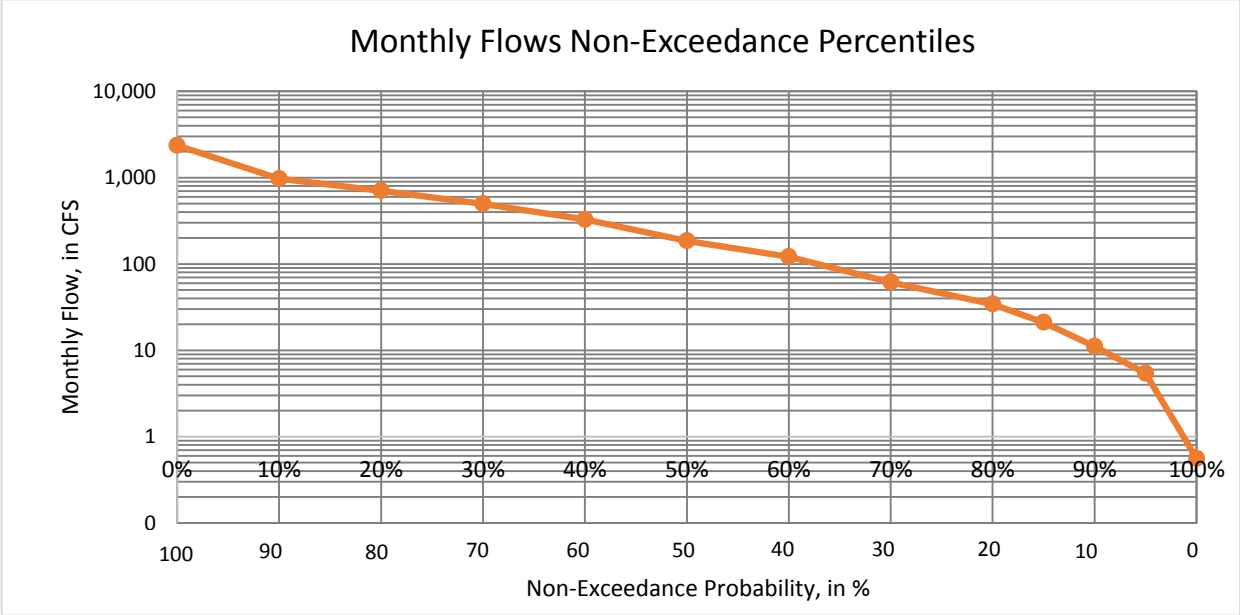
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,181	1,306	1,064	1,150	356	145	262	388	194	482	194	410	590
1976	1,145	490	1,909	1,252	1,007	224	93	128	103	24	57	305	564
1977	726	547	1,651	1,684	90	28	41	29	103	495	475	314	514
1978	869	404	608	299	799	433	29	22	8	5	7	96	299
1979	651	771	1,379	2,356	408	160	153	78	262	185	290	139	566
1980	699	646	2,066	1,411	674	142	48	25	15	99	96	53	498
1981	37	701	502	877	68	70	20	22	8	10	7	91	196
1982	842	1,137	563	967	338	213	94	87	8	17	55	1,156	452
1983	563	1,363	1,135	1,727	994	318	150	44	60	27	397	1,483	683
1984	884	515	683	740	628	76	59	159	19	103	145	443	371
1985	205	1,000	482	252	152	35	135	126	13	46	62	183	219
1986	65	174	153	18	45	16	5	5	8	17	563	644	143
1987	1,066	720	956	352	111	113	65	5	10	1	10	35	285
1988	431	364	127	167	22	2	17	3	100	33	258	148	138
1989	653	310	969	787	124	657	939	64	41	56	185	493	441
1990	1,386	2,198	1,270	443	325	71	58	11	5	6	17	146	484
1991	273	917	786	529	1,131	524	227	47	60	16	99	186	396
1992	406	795	480	305	45	23	26	91	258	21	651	804	322
1993	1,258	610	697	479	307	48	29	53	29	9	154	199	322
1994	415	669	937	743	141	105	346	68	116	202	104	556	365
1995	442	948	1,117	499	162	35	12	9	13	526	661	634	418
1996	866	1,268	1,306	593	172	114	166	121	64	60	122	291	424
1997	841	722	952	463	231	695	339	82	20	60	144	496	419
1998	1,494	1,263	1,207	617	182	100	80	66	110	43	75	158	445
1999	562	935	785	350	98	306	422	15	6	42	36	83	300
2000	289	120	716	1,013	41	19	3	8	1	1	39	39	190
2001	217	531	1,393	813	53	264	34	60	505	36	26	448	363
2002	810	550	549	221	122	17	43	4	182	153	468	859	331
2003	353	945	859	802	1,373	860	871	327	84	55	169	149	568
2004	360	908	381	273	179	74	61	27	471	44	872	669	355
2005	241	783	825	1,196	244	742	1,018	269	159	39	50	249	482
2006	609	917	759	324	338	16	9	11	9	23	134	124	269
2007	523	310	122	46	5	1	4	1	4	1	1	3	84
2008	39	442	313	344	303	22	3	145	12	2	1	153	146
2009	531	127	1,297	714	602	121	56	68	1,001	702	990	1,282	627
2010	923	1,102	1,255	350	329	175	30	41	8	8	46	119	362
2011	219	370	1,272	604	57	17	25	3	167	5	30	317	257
2012	637	482	860	169	46	7	8	178	271	61	15	435	264
2013	834	1,275	675	584	448	132	266	246	19	13	31	645	426
2014	424	630	771	1,310	410	191	37	9	11	23	102	423	359

Non-Exceedance Percentiles

02427000 - Bogue Chitto Creek near Orrville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	37	120	122	18	5	1	3	1	1	1	1	3	84
5th %	64	171	152	161	40	7	4	3	5	1	6	38	142
10th %	216	310	374	216	45	16	7	5	8	4	10	80	186
15th %	237	369	482	270	52	17	11	7	8	6	17	96	216
20th %	285	434	540	304	66	21	19	9	8	9	30	123	262
30th %	412	526	680	350	118	35	29	20	11	16	44	148	299
40th %	491	622	766	473	158	73	39	28	17	23	60	185	345
Median	586	711	842	588	206	109	57	50	35	35	100	298	364
60th %	672	788	954	724	314	136	71	67	72	44	138	415	419
70th %	836	922	1,122	805	344	180	140	83	105	57	174	462	442
80th %	872	1,020	1,270	1,041	479	273	234	126	170	100	311	636	487
90th %	1,149	1,269	1,381	1,320	818	537	354	184	263	230	572	810	566
Maximum	1,494	2,198	2,066	2,356	1,373	860	1,018	388	1,001	702	990	1,483	683
Average	624	757	896	696	329	183	157	79	113	94	196	387	374

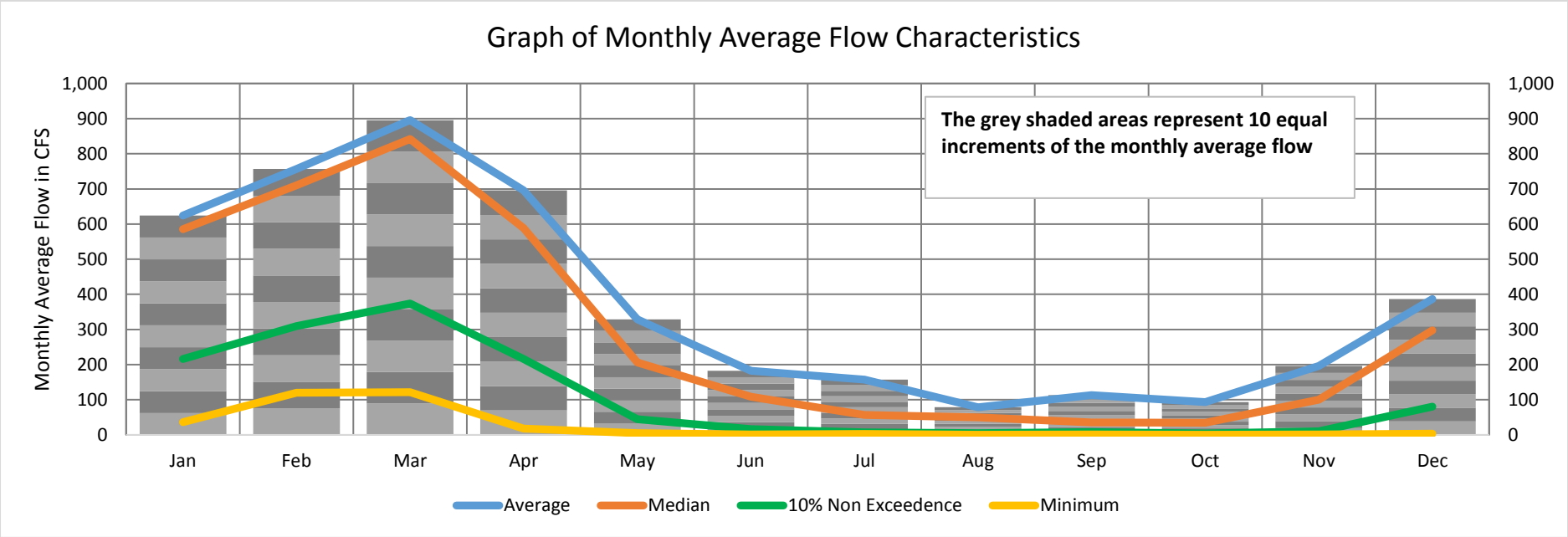
	Flows in CFS
Minimum	0.6
5th %	5
10th %	11
15th %	21
20th %	34
30th %	61
40th %	121
Median	185
60th %	328
70th %	497
80th %	704
90th %	971
Maximum	2,356
Average	376



Q10/Q50	0.06
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.02
Q10/DA	0.04
Q15/DA	0.07
Q20/DA	0.12
Q30/DA	0.21
Q40/DA	0.41
Q50/DA	0.63
Q60/DA	1.12
Q70/DA	1.70
Q80/DA	2.40
Q90/DA	3.32
Qmax/DA	8.04

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

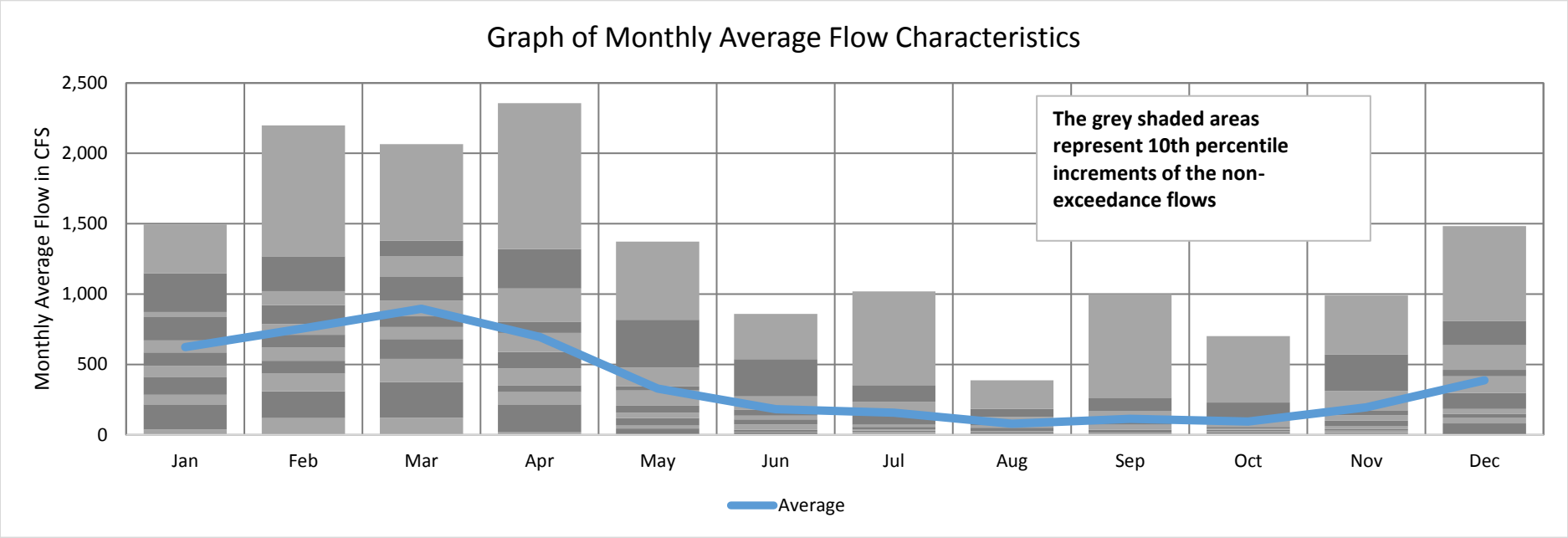
Site #: 02427000 Name: Bogue Chitto Creek near Orrville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	624	757	896	696	329	183	157	79	113	94	196	387
100%	1,494	2,198	2,066	2,356	1,373	860	1,018	388	1,001	702	990	1,483
98%	1,410	1,547	1,943	1,865	1,184	768	956	340	614	564	898	1,326
95%	1,265	1,309	1,663	1,686	1,013	698	874	272	473	497	672	1,163
90%	1,149	1,269	1,381	1,320	818	537	354	184	263	230	572	810
75%	848	946	1,219	900	408	216	156	99	127	60	210	511
50%	586	711	842	588	206	109	57	50	35	35	100	298
25%	358	488	597	339	96	27	25	11	10	12	34	144
10%	216	310	374	216	45	16	7.3	4.8	7.9	4.2	10	80
5%	64	171	152	161	40	6.6	4.4	3.1	4.7	1.5	6.3	38
2%	39	125	126	40	19	1.5	3.3	2.2	3.4	0.9	1.1	28
0%	37	120	122	18	5.4	0.9	3.0	0.6	0.9	0.8	1.0	3.3

Site #: 02427000 Name: Bogue Chitto Creek near Orrville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 293 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	624	757	896	696	329	183	157	79	113	94	196	387
100%	1,494	2,198	2,066	2,356	1,373	860	1,018	388	1,001	702	990	1,483
98%	1,410	1,547	1,943	1,865	1,184	768	956	340	614	564	898	1,326
95%	1,265	1,309	1,663	1,686	1,013	698	874	272	473	497	672	1,163
90%	1,149	1,269	1,381	1,320	818	537	354	184	263	230	572	810
75%	848	946	1,219	900	408	216	156	99	127	60	210	511
50%	586	711	842	588	206	109	57	50	35	35	100	298
25%	358	488	597	339	96	27	25	11	10	12	34	144
10%	216	310	374	216	45	16	7.3	4.8	7.9	4.2	10	80
5%	64	171	152	161	40	6.6	4.4	3.1	4.7	1.5	6.3	38
2%	39	125	126	40	19	1.5	3.3	2.2	3.4	0.9	1.1	28
0%	37	120	122	18	5.4	0.9	3.0	0.6	0.9	0.8	1.0	3.3

Monthly Flows (in CFS) for

02427250 - Pine Barren Creek near Snow Hill, Ala.

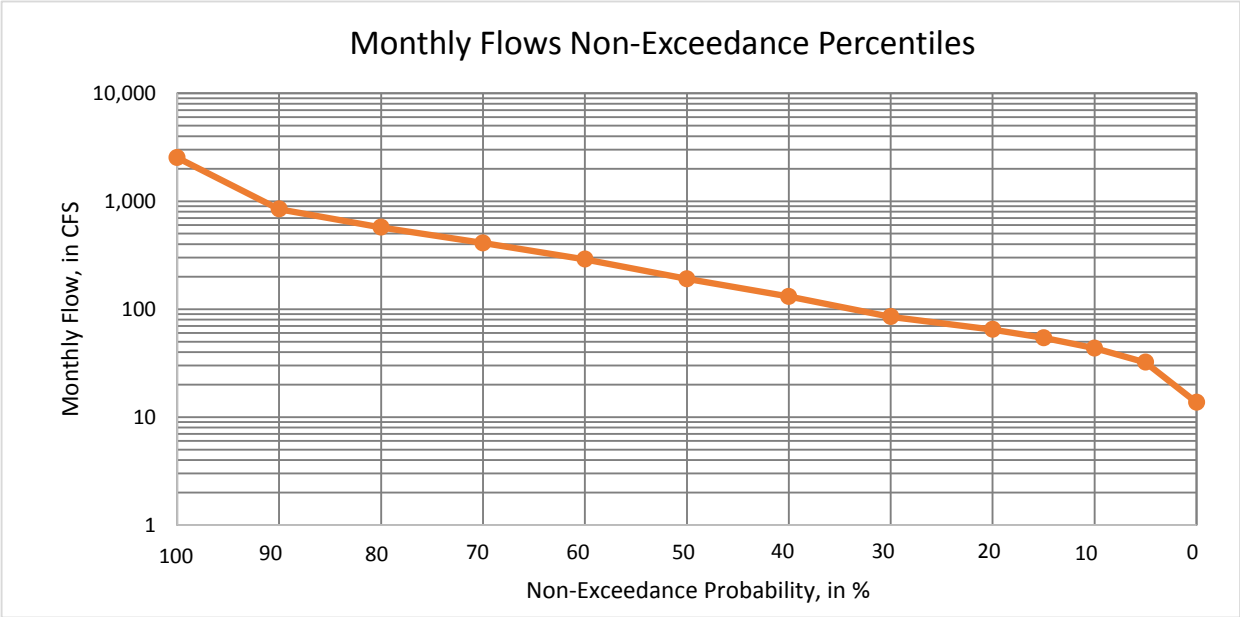
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	756	1,256	819	943	288	211	224	914	569	770	342	488	628
1976	1,045	620	796	640	816	629	147	75	71	46	181	534	466
1977	608	374	1,184	545	85	49	84	282	134	76	169	170	314
1978	1,115	436	498	491	985	602	163	145	42	34	55	149	394
1979	648	1,093	1,087	844	221	151	295	141	130	79	157	292	424
1980	480	410	1,021	1,522	749	424	115	61	62	83	81	93	424
1981	82	696	315	297	122	83	29	51	67	18	30	120	155
1982	486	1,051	422	416	340	69	131	183	42	37	85	301	292
1983	495	919	1,183	1,152	377	393	203	57	77	57	199	436	459
1984	642	485	787	513	371	103	94	396	62	86	123	255	326
1985	221	840	570	182	120	45	98	83	95	79	117	361	231
1986	301	582	772	150	101	78	38	32	105	24	136	254	212
1987	398	694	552	290	141	148	116	61	33	14	60	162	220
1988	506	466	607	231	63	28	87	37	202	127	189	132	221
1989	228	192	482	997	222	650	485	83	47	54	226	549	351
1990	1,344	1,566	1,632	325	189	91	82	37	34	31	40	55	447
1991	234	348	781	229	1,200	330	226	65	66	37	162	198	324
1992	862	1,288	352	139	59	341	146	255	127	82	1,328	1,144	504
1993	1,100	576	963	667	153	91	155	167	70	64	483	251	394
1994	489	666	587	393	134	116	439	119	55	83	80	223	280
1995	293	684	760	312	88	78	46	107	24	504	317	926	344
1996	1,101	1,007	1,206	521	215	146	156	84	317	89	84	533	453
1997	704	1,165	569	565	507	442	114	70	36	103	608	880	475
1998	1,371	924	1,025	187	104	71	61	44	1,176	425	99	93	462
1999	372	339	735	192	104	427	275	47	32	82	73	148	235
2000	265	183	276	179	32	20	14	16	19	14	60	233	109
2001	272	213	2,532	628	86	419	63	132	77	83	86	167	399
2002	206	296	604	187	53	83	67	35	74	239	348	984	265
2003	311	502	860	961	322	352	810	438	111	66	96	166	416
2004	239	720	183	69	136	141	80	67	803	274	494	445	300
2005	409	571	825	1,404	135	476	810	272	146	69	76	117	441
2006	276	598	295	82	382	47	31	43	27	55	441	209	205
2007	554	239	333	431	45	37	46	26	23	52	39	65	157
2008	260	315	382	260	58	25	44	381	89	29	49	158	170
2009	331	115	1,168	676	446	95	88	121	354	91	453	2,270	522
2010	1,223	1,108	592	155	311	85	46	42	33	32	44	61	307
2011	67	235	647	248	49	36	51	23	24	23	40	54	124
2012	120	405	296	65	113	256	32	66	616	77	37	172	185
2013	245	1,936	334	781	198	74	392	194	65	45	63	818	418
2014	360	904	582	1,779	625	132	83	60	48	44	44	289	407

Non-Exceedance Percentiles

02427250 - Pine Barren Creek near Snow Hill, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	67	115	183	65	32	20	14	16	19	14	30	54	109
5th %	118	192	294	81	49	28	31	26	24	18	39	60	154
10th %	220	233	314	149	57	37	37	35	27	24	40	90	169
15th %	233	287	334	175	62	47	45	37	33	31	44	114	202
20th %	244	334	376	186	86	65	46	43	34	34	54	130	218
30th %	275	408	536	230	104	78	66	55	45	45	70	161	256
40th %	323	495	585	294	129	89	84	63	62	54	83	171	304
Median	403	590	627	404	147	110	96	72	68	67	97	228	335
60th %	491	688	775	516	218	147	122	93	77	79	144	269	396
70th %	618	859	821	632	314	278	155	135	107	83	183	384	420
80th %	777	1,016	1,022	794	378	399	224	185	136	89	322	533	448
90th %	1,102	1,174	1,183	1,013	637	446	396	292	375	242	456	885	467
Maximum	1,371	1,936	2,532	1,779	1,200	650	810	914	1,176	770	1,328	2,270	628
Average	525	675	740	516	269	202	167	138	154	107	195	374	337

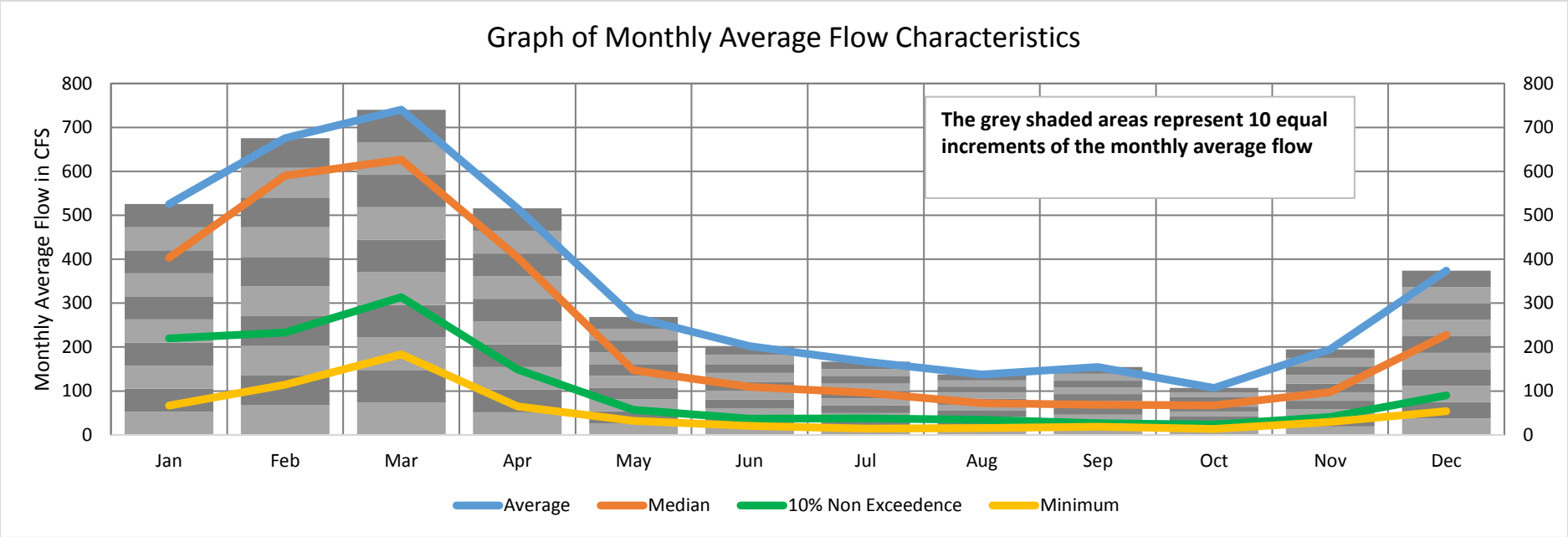
	Flows in CFS
Minimum	13.7
5th %	32
10th %	43
15th %	54
20th %	65
30th %	85
40th %	131
Median	191
60th %	289
70th %	409
80th %	572
90th %	845
Maximum	2,532
Average	339



Q10/Q50	0.23
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.05
Q5/DA	0.12
Q10/DA	0.17
Q15/DA	0.21
Q20/DA	0.25
Q30/DA	0.33
Q40/DA	0.50
Q50/DA	0.73
Q60/DA	1.11
Q70/DA	1.57
Q80/DA	2.19
Q90/DA	3.24
Qmax/DA	9.70

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

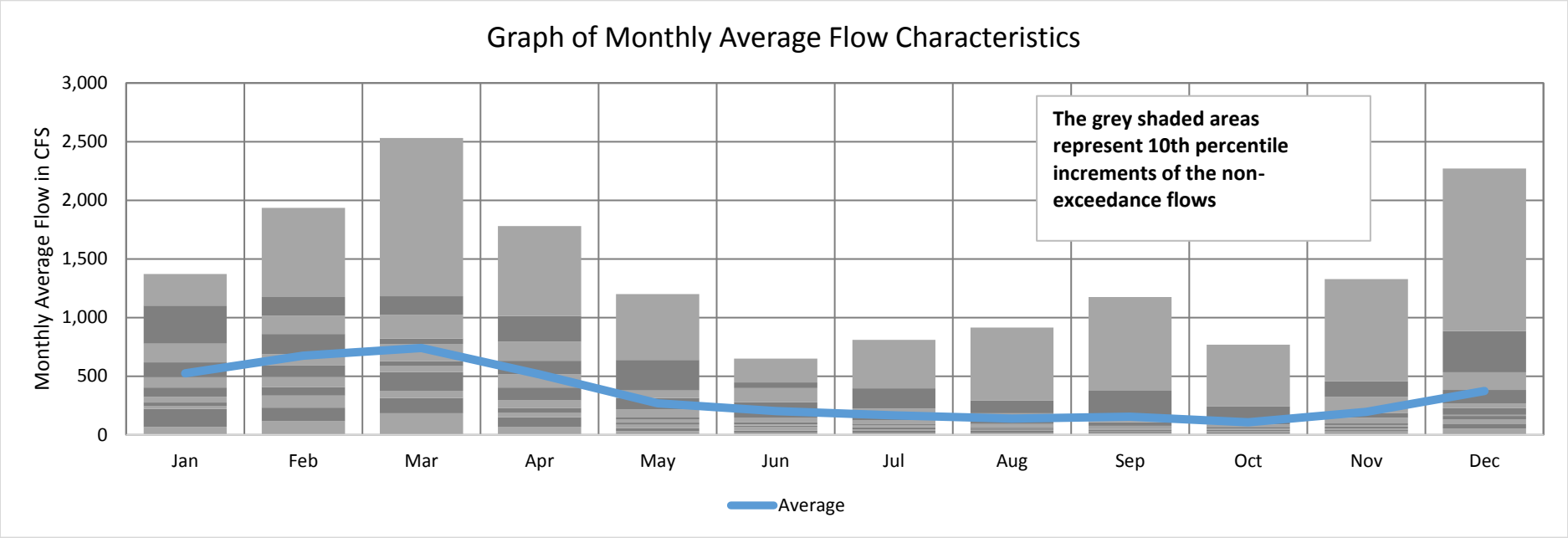
Site #: 02427250 Name: Pine Barren Creek near Snow Hill, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	525	675	740	516	269	202	167	138	154	107	195	374
100%	1,371	1,936	2,532	1,779	1,200	650	810	914	1,176	770	1,328	2,270
98%	1,350	1,647	1,830	1,578	1,032	634	810	542	885	563	767	1,392
95%	1,229	1,302	1,227	1,410	824	603	501	398	625	429	500	992
90%	1,102	1,174	1,183	1,013	637	446	396	292	375	242	456	885
75%	662	921	885	669	347	344	173	151	128	83	205	456
50%	403	590	627	404	147	110	96	72	68	67	97	228
25%	264	367	467	191	98	73	58	46	41	37	60	149
10%	220	233	314	149	57	37	37	35	27	24	40	90
5%	118	192	294	81	49	28	31	26	24	18	39	60
2%	79	168	256	68	42	24	26	21	22	14	35	55
0%	67	115	183	65	32	20	14	16	19	14	30	54

Site #: 02427250 Name: Pine Barren Creek near Snow Hill, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 261 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	525	675	740	516	269	202	167	138	154	107	195	374
100%	1,371	1,936	2,532	1,779	1,200	650	810	914	1,176	770	1,328	2,270
98%	1,350	1,647	1,830	1,578	1,032	634	810	542	885	563	767	1,392
95%	1,229	1,302	1,227	1,410	824	603	501	398	625	429	500	992
90%	1,102	1,174	1,183	1,013	637	446	396	292	375	242	456	885
75%	662	921	885	669	347	344	173	151	128	83	205	456
50%	403	590	627	404	147	110	96	72	68	67	97	228
25%	264	367	467	191	98	73	58	46	41	37	60	149
10%	220	233	314	149	57	37	37	35	27	24	40	90
5%	118	192	294	81	49	28	31	26	24	18	39	60
2%	79	168	256	68	42	24	26	21	22	14	35	55
0%	67	115	183	65	32	20	14	16	19	14	30	54

Monthly Flows (in CFS) for
02427700 - Turkey Creek at Kimbrough, Ala.

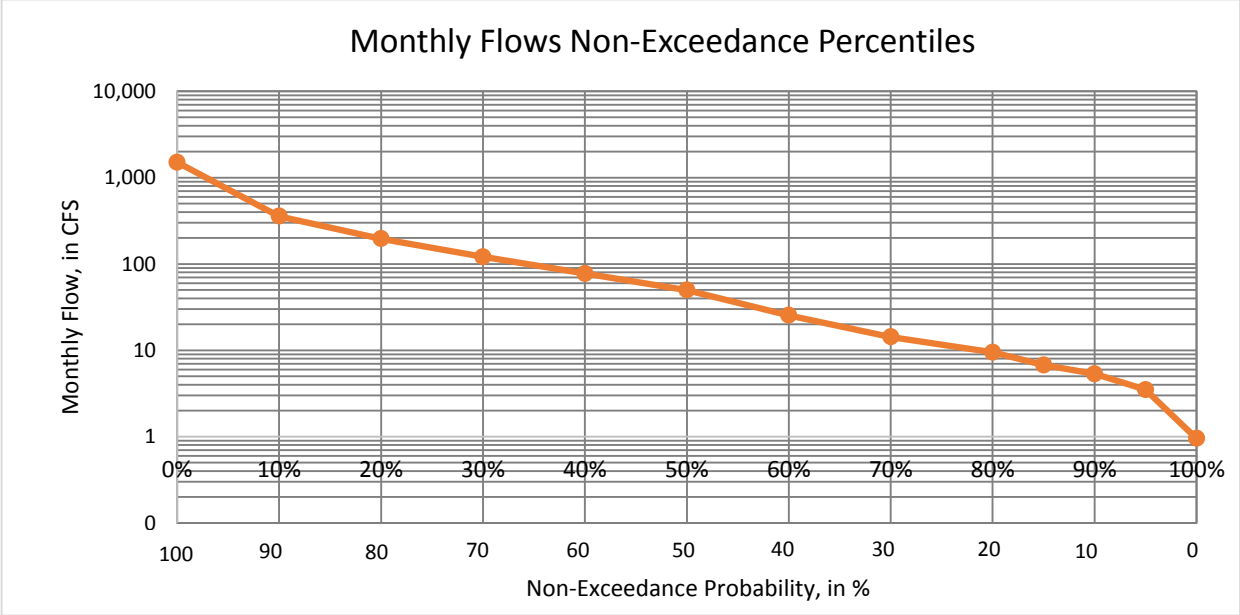
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	376	580	240	226	84	54	121	260	106	237	52	142	204
1976	356	109	749	311	397	59	15	31	19	9	72	140	190
1977	181	318	535	204	19	10	18	15	12	9	47	47	117
1978	211	102	82	72	431	163	11	11	2	2	13	34	95
1979	175	409	742	654	76	33	48	17	31	11	39	48	188
1980	143	122	621	448	498	74	31	14	7	9	10	11	166
1981	17	381	151	129	45	46	12	5	3	1	5	32	67
1982	78	465	81	475	66	10	19	36	5	4	30	296	128
1983	346	766	809	536	292	205	92	15	6	5	87	310	286
1984	185	165	172	135	56	15	9	154	5	15	32	64	84
1985	63	418	113	80	51	14	37	10	11	16	12	53	71
1986	46	103	116	20	57	65	6	4	6	6	279	215	77
1987	440	402	346	72	82	116	24	28	4	2	15	24	128
1988	87	209	112	112	14	4	37	13	85	48	106	95	76
1989	191	75	304	361	70	87	139	20	8	10	40	186	125
1990	724	614	650	126	58	12	10	3	3	5	7	13	183
1991	190	369	347	232	434	52	44	15	9	6	24	51	147
1992	236	334	120	57	13	116	31	8	10	11	156	321	116
1993	490	151	418	172	55	11	9	8	6	5	73	55	122
1994	94	354	358	135	22	15	111	18	7	17	20	57	99
1995	177	165	326	112	25	22	5	40	4	126	227	408	137
1996	274	181	612	131	31	18	72	100	49	14	13	173	139
1997	254	512	189	188	161	133	20	10	4	18	208	347	168
1998	642	371	429	40	18	10	8	5	519	126	17	15	182
1999	105	92	270	42	18	127	69	6	3	13	11	29	65
2000	65	39	69	38	3	2	1	1	2	1	8	55	24
2001	68	48	1,505	217	14	124	9	25	12	13	14	34	175
2002	46	76	206	40	7	13	10	4	11	57	96	405	81
2003	82	159	336	392	86	97	309	131	20	9	16	34	139
2004	57	262	39	10	26	27	13	10	305	69	156	135	91
2005	120	190	317	664	26	148	309	68	29	10	12	21	159
2006	69	203	76	13	109	6	3	5	3	7	133	47	55
2007	183	57	90	129	6	4	6	3	2	7	5	9	42
2008	64	83	109	64	8	2	5	109	14	3	6	32	42
2009	89	20	514	240	135	16	14	22	98	15	138	1,293	219
2010	548	478	200	31	82	14	6	5	4	4	5	8	113
2011	10	56	226	60	6	4	7	2	2	2	5	7	32
2012	22	118	77	9	20	62	3	9	211	12	4	36	48
2013	59	1,037	90	294	44	11	113	42	9	6	9	313	163
2014	100	360	195	922	216	25	13	8	6	5	5	74	158

Non-Exceedance Percentiles

02427700 - Turkey Creek at Kimbrough, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	10	20	39	9	3	2	1	1	2	1	4	7	24
5th %	21	48	76	13	6	3	3	3	2	2	5	9	41
10th %	46	57	81	30	8	4	5	4	3	2	5	13	47
15th %	58	76	89	40	14	9	6	5	3	3	6	20	64
20th %	64	90	105	42	17	10	7	5	4	5	8	28	70
30th %	76	115	118	69	21	13	9	8	4	5	11	34	83
40th %	92	163	193	112	29	15	12	10	6	7	14	47	108
Median	131	196	233	130	53	23	15	13	7	9	18	54	123
60th %	182	324	320	178	61	48	22	16	10	11	35	68	138
70th %	197	370	350	228	82	63	37	23	13	13	58	141	158
80th %	288	411	518	321	114	101	70	37	29	16	98	231	169
90th %	445	519	660	481	302	128	113	100	99	58	156	324	189
Maximum	724	1,037	1,505	922	498	205	309	260	519	237	279	1,293	286
Average	192	274	323	205	96	51	45	32	41	24	55	142	122

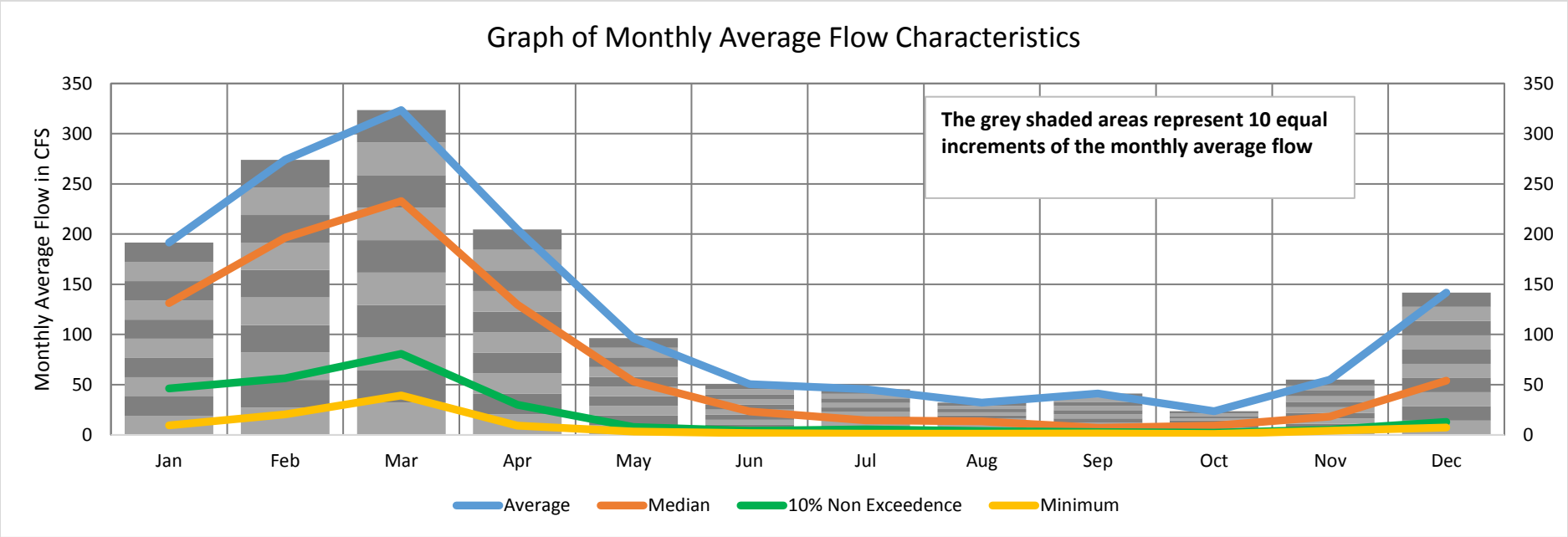
	Flows in CFS
Minimum	1.0
5th %	3
10th %	5
15th %	7
20th %	9
30th %	14
40th %	25
Median	50
60th %	77
70th %	121
80th %	196
90th %	356
Maximum	1,505
Average	123



Q10/Q50	0.11
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.01
Q5/DA	0.04
Q10/DA	0.05
Q15/DA	0.07
Q20/DA	0.10
Q30/DA	0.15
Q40/DA	0.26
Q50/DA	0.51
Q60/DA	0.79
Q70/DA	1.24
Q80/DA	2.01
Q90/DA	3.66
Qmax/DA	15.43

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

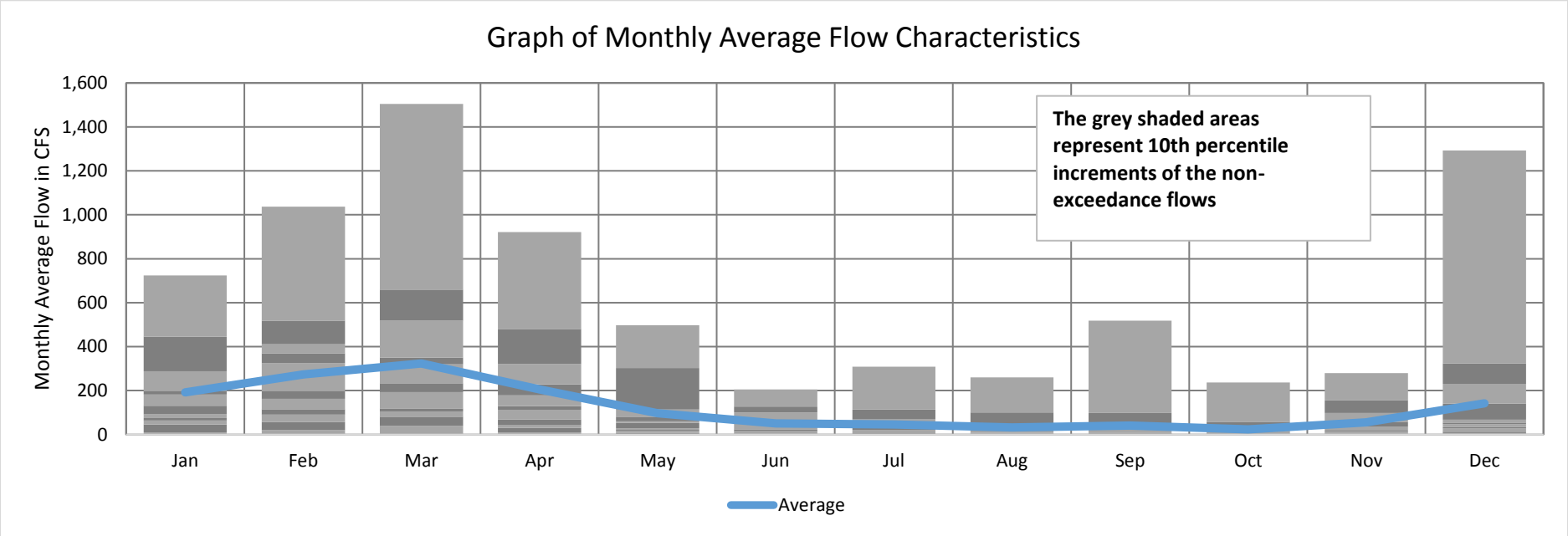
Site #: 02427700 Name: Turkey Creek at Kimbrough, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	192	274	323	205	96	51	45	32	41	24	55	142
100%	724	1,037	1,505	922	498	205	309	260	519	237	279	1,293
98%	660	826	962	720	448	172	309	177	352	151	239	602
95%	552	622	752	654	431	149	147	133	216	126	209	405
90%	445	519	660	481	302	128	113	100	99	58	156	324
75%	240	386	421	254	84	77	45	29	19	15	76	176
50%	131	196	233	130	53	23	15	13	7.2	9.3	18	54
25%	67	102	113	59	18	11	8.7	5.7	4.0	4.9	9.7	32
10%	46	57	81	30	7.8	4.2	5.4	3.8	2.7	2.2	5.3	13
5%	21	48	76	13	6.2	3.4	3.5	2.6	2.3	1.5	4.6	9.2
2%	15	35	63	9.9	5.1	2.3	2.8	2.0	2.1	1.1	4.5	8.2
0%	9.6	20	39	9.3	3.5	1.8	1.1	1.3	1.6	1.0	4.2	7.2

Site #: 02427700 Name: Turkey Creek at Kimbrough, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 98 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	192	274	323	205	96	51	45	32	41	24	55	142
100%	724	1,037	1,505	922	498	205	309	260	519	237	279	1,293
98%	660	826	962	720	448	172	309	177	352	151	239	602
95%	552	622	752	654	431	149	147	133	216	126	209	405
90%	445	519	660	481	302	128	113	100	99	58	156	324
75%	240	386	421	254	84	77	45	29	19	15	76	176
50%	131	196	233	130	53	23	15	13	7.2	9.3	18	54
25%	67	102	113	59	18	11	8.7	5.7	4.0	4.9	9.7	32
10%	46	57	81	30	7.8	4.2	5.4	3.8	2.7	2.2	5.3	13
5%	21	48	76	13	6.2	3.4	3.5	2.6	2.3	1.5	4.6	9.2
2%	15	35	63	9.9	5.1	2.3	2.8	2.0	2.1	1.1	4.5	8.2
0%	9.6	20	39	9.3	3.5	1.8	1.1	1.3	1.6	1.0	4.2	7.2

Monthly Flows (in CFS) for

02428000 - Alabama River near Coy, Ala. (represents streamflow for 03150203)

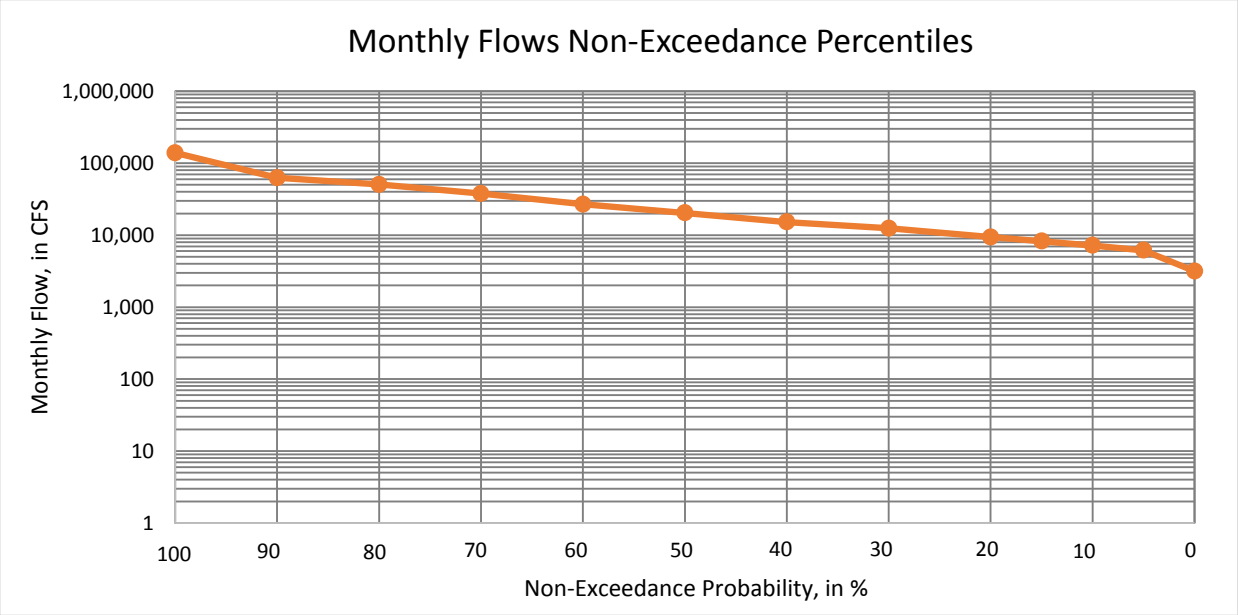
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	74,881	103,399	89,201	79,909	31,422	24,219	28,447	39,227	29,077	54,705	29,746	34,689	51,270
1976	69,618	47,568	84,889	88,090	50,572	23,767	24,370	13,901	12,441	8,727	14,164	37,071	39,587
1977	53,076	31,309	94,493	96,903	16,847	12,620	7,784	10,728	13,769	24,492	45,949	27,016	36,223
1978	62,698	45,977	43,661	23,221	57,162	25,707	9,430	12,328	8,242	6,828	7,566	15,605	26,489
1979	52,831	56,852	103,493	139,364	41,628	27,816	21,875	14,531	18,674	24,803	33,757	22,779	46,357
1980	50,393	49,169	106,318	119,028	59,008	18,985	11,519	8,308	7,061	12,545	13,712	13,307	39,024
1981	9,452	51,306	27,081	43,972	9,861	15,143	8,390	6,979	8,649	6,552	7,660	18,796	17,534
1982	58,631	86,622	46,881	49,141	32,956	15,689	14,475	13,364	6,965	10,982	16,217	73,864	35,210
1983	48,783	78,393	75,154	101,516	49,084	25,519	15,445	9,536	12,855	9,806	30,885	88,410	45,208
1984	73,073	44,386	56,955	51,476	52,191	14,644	15,266	41,854	11,584	11,500	15,407	29,294	34,850
1985	17,808	61,239	27,769	14,258	16,819	8,470	17,177	17,619	9,110	12,196	14,230	21,480	19,599
1986	13,458	25,208	38,417	8,994	8,116	7,702	6,525	6,501	5,565	5,482	27,166	39,227	15,995
1987	50,817	60,119	67,905	26,385	14,042	15,124	13,081	7,903	7,133	6,722	6,622	10,954	23,713
1988	34,133	31,036	16,424	15,586	8,244	6,976	7,541	5,963	20,632	11,914	25,886	16,584	16,620
1989	47,888	26,404	68,488	55,863	19,107	59,215	56,494	14,305	14,644	33,211	33,069	52,643	40,217
1990	81,914	119,028	136,916	38,163	24,982	11,622	11,048	8,879	7,206	9,146	10,634	19,295	39,504
1991	26,686	47,324	47,964	42,889	71,125	28,334	20,510	12,526	12,291	9,491	18,344	26,187	30,219
1992	51,071	57,624	52,511	24,238	10,634	18,316	11,820	16,678	18,175	11,810	61,879	76,576	34,125
1993	85,247	52,747	60,316	43,539	21,451	11,283	10,426	10,219	8,170	7,072	15,237	19,728	28,691
1994	29,341	55,242	58,744	63,602	15,783	13,580	43,172	18,683	15,840	23,777	17,102	45,845	33,277
1995	33,352	62,388	73,055	21,903	12,874	9,399	8,527	8,284	6,242	46,928	51,334	48,651	31,767
1996	53,283	83,129	84,023	40,178	19,973	15,708	12,102	13,458	15,285	12,780	17,817	36,026	33,365
1997	59,196	62,482	77,574	32,166	37,777	45,281	20,500	13,957	9,191	18,241	28,522	45,488	37,422
1998	80,521	96,997	95,961	54,856	22,995	14,324	9,553	10,266	11,500	14,381	10,191	15,878	36,105
1999	32,250	53,095	36,355	16,038	15,030	19,098	30,188	8,477	6,498	8,135	7,839	10,812	20,136
2000	16,998	12,931	28,522	40,601	8,586	6,342	5,916	5,976	5,958	5,563	10,116	13,938	13,433
2001	25,311	33,276	117,616	52,803	12,931	25,330	13,966	12,385	15,322	7,920	8,962	22,299	29,012
2002	34,425	30,546	29,369	21,979	16,640	7,547	7,332	6,858	11,358	15,765	40,799	62,275	23,722
2003	29,746	53,133	64,713	48,444	95,302	52,436	61,220	30,866	13,505	9,861	18,297	22,148	41,638
2004	25,377	57,755	19,276	11,340	13,693	12,667	12,620	8,288	33,173	14,974	49,009	61,455	26,381
2005	25,057	48,566	53,820	75,408	22,929	29,652	55,477	23,993	11,556	9,250	11,443	21,706	32,276
2006	35,320	45,120	39,622	17,808	21,329	7,154	5,886	6,244	5,837	7,527	22,515	16,028	19,050
2007	33,662	18,938	15,181	8,991	6,108	5,134	4,901	4,707	4,723	4,309	3,839	3,165	9,435
2008	7,786	24,464	26,451	20,802	15,209	7,950	4,631	18,024	6,928	6,169	7,303	31,120	14,700
2009	40,441	12,469	64,619	57,266	48,971	12,629	7,417	8,929	35,781	50,553	62,849	94,831	41,626
2010	65,890	78,355	64,534	22,694	28,654	14,409	7,482	6,935	5,181	5,451	9,329	12,404	26,505
2011	14,004	23,221	60,570	41,496	10,379	6,155	7,480	5,812	8,578	5,773	10,662	26,855	18,395
2012	37,014	32,118	35,875	11,321	9,265	6,644	5,477	9,166	13,486	7,590	7,362	23,664	16,529
2013	44,753	88,872	47,521	42,851	52,125	20,322	37,927	24,577	12,093	11,961	13,373	52,492	37,150
2014	45,064	49,640	42,418	80,238	31,657	21,112	11,302	7,019	7,028	9,833	13,693	23,476	28,345

Non-Exceedance Percentiles

02428000 - Alabama River near Coy, Ala. (represents streamflow for 03150203)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165	9,435
5th %	13,258	18,637	19,134	11,204	8,238	6,333	5,448	5,955	5,545	5,480	7,268	10,947	14,637
10th %	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217	16,476
15th %	23,970	26,224	28,409	15,970	10,302	7,488	7,211	6,805	6,459	6,495	7,812	15,355	17,397
20th %	25,364	30,938	34,574	20,203	12,426	7,901	7,468	6,970	6,957	6,807	9,255	15,998	18,919
30th %	31,499	41,053	41,580	23,063	14,734	11,520	8,208	8,287	7,184	7,821	10,653	19,598	23,719
40th %	34,308	47,470	47,787	35,764	16,748	13,215	10,077	8,909	8,621	9,209	13,705	22,238	27,609
Median	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925	30,993
60th %	49,427	53,976	64,568	45,761	23,790	16,751	13,435	12,441	12,172	11,852	18,009	30,025	33,669
70th %	52,905	58,464	69,858	53,419	32,047	20,559	15,964	13,917	13,492	12,615	26,270	37,718	36,140
80th %	59,896	65,656	84,196	65,963	48,994	25,368	22,374	16,866	15,292	16,260	31,322	49,419	39,120
90th %	73,254	86,847	96,714	88,972	52,688	28,465	38,452	24,052	18,870	25,644	46,255	63,434	41,627
Maximum	85,247	119,028	136,916	139,364	95,302	59,215	61,220	41,854	35,781	54,705	62,849	94,831	51,270
Average	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351	29,768

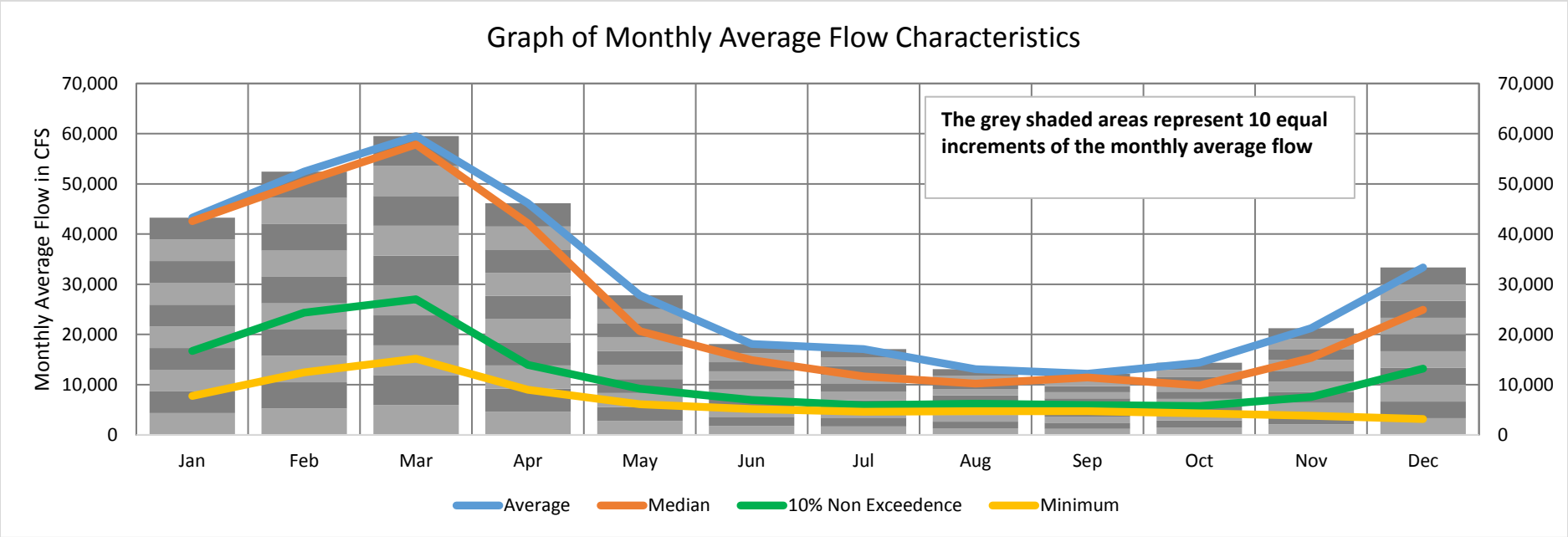
	Flows in CFS
Minimum	3,164.6
5th %	6,168
10th %	7,200
15th %	8,244
20th %	9,385
30th %	12,461
40th %	15,226
Median	20,411
60th %	26,920
70th %	37,822
80th %	50,557
90th %	62,713
Maximum	139,364
Average	29,893



Q10/Q50	0.35
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.15
Q5/DA	0.29
Q10/DA	0.34
Q15/DA	0.39
Q20/DA	0.44
Q30/DA	0.59
Q40/DA	0.72
Q50/DA	0.97
Q60/DA	1.27
Q70/DA	1.79
Q80/DA	2.39
Q90/DA	2.97
Qmax/DA	6.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

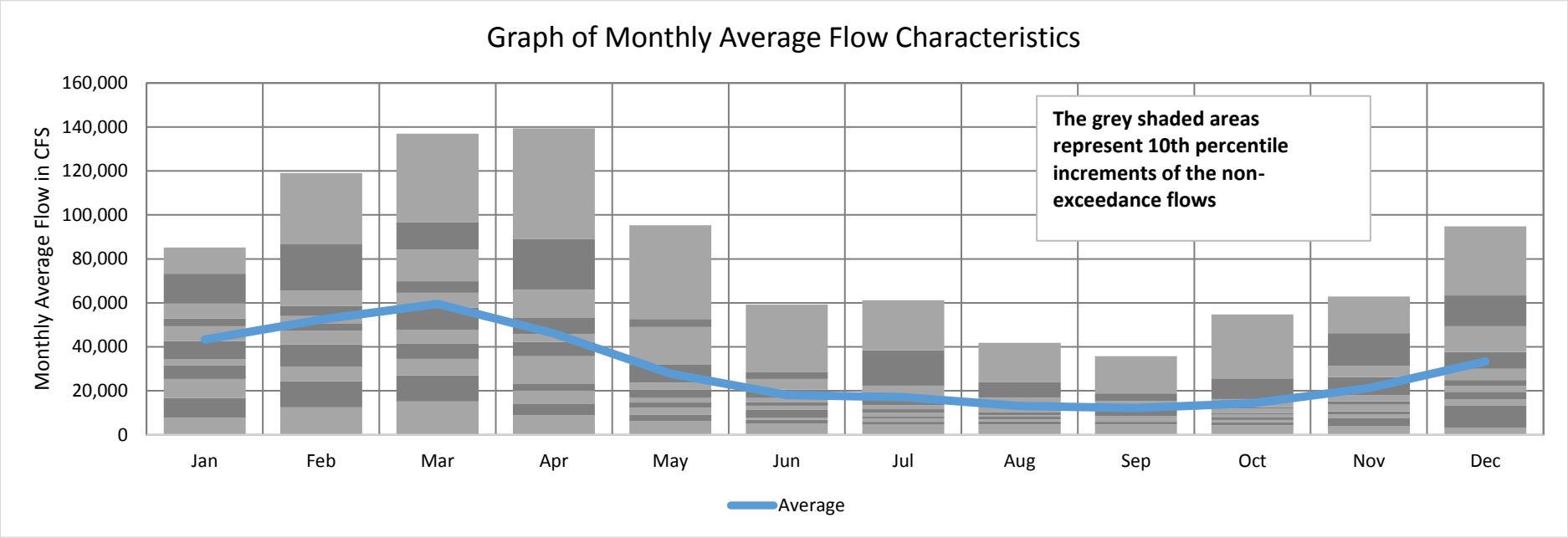
Site #: 02428000 Name: Alabama River near Coy, Ala. (represents streamflow for 03150203)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351
100%	85,247	119,028	136,916	139,364	95,302	59,215	61,220	41,854	35,781	54,705	62,849	94,831
98%	82,647	106,837	121,862	123,502	76,444	53,927	57,534	39,805	33,747	51,466	62,092	89,823
95%	80,590	97,317	106,883	102,392	59,613	45,638	55,528	31,284	29,282	47,109	51,862	77,168
90%	73,254	86,847	96,714	88,972	52,688	28,465	38,452	24,052	18,870	25,644	46,255	63,434
75%	54,620	61,526	75,759	56,214	38,740	23,880	20,503	14,362	13,988	14,529	28,828	45,577
50%	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925
25%	28,677	31,916	37,902	21,960	13,503	9,167	7,526	7,682	7,052	7,413	10,172	18,243
10%	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217
5%	13,258	18,637	19,134	11,204	8,238	6,333	5,448	5,955	5,545	5,480	7,268	10,947
2%	9,086	12,829	16,150	8,994	7,674	5,930	4,842	5,569	5,080	5,199	6,010	9,130
0%	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165

Site #: 02428000 Name: Alabama River near Coy, Ala. (represents streamflow for 03150203)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 21,140 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	43,281	52,461	59,516	46,133	27,837	18,101	17,117	13,106	12,183	14,368	21,262	33,351
100%	85,247	119,028	136,916	139,364	95,302	59,215	61,220	41,854	35,781	54,705	62,849	94,831
98%	82,647	106,837	121,862	123,502	76,444	53,927	57,534	39,805	33,747	51,466	62,092	89,823
95%	80,590	97,317	106,883	102,392	59,613	45,638	55,528	31,284	29,282	47,109	51,862	77,168
90%	73,254	86,847	96,714	88,972	52,688	28,465	38,452	24,052	18,870	25,644	46,255	63,434
75%	54,620	61,526	75,759	56,214	38,740	23,880	20,503	14,362	13,988	14,529	28,828	45,577
50%	42,597	50,473	57,850	42,174	20,651	14,884	11,669	10,243	11,429	9,847	15,322	24,925
25%	28,677	31,916	37,902	21,960	13,503	9,167	7,526	7,682	7,052	7,413	10,172	18,243
10%	16,699	24,340	27,018	13,966	9,197	6,943	5,913	6,217	5,946	5,752	7,546	13,217
5%	13,258	18,637	19,134	11,204	8,238	6,333	5,448	5,955	5,545	5,480	7,268	10,947
2%	9,086	12,829	16,150	8,994	7,674	5,930	4,842	5,569	5,080	5,199	6,010	9,130
0%	7,786	12,469	15,181	8,991	6,108	5,134	4,631	4,707	4,723	4,309	3,839	3,165

Monthly Flows (in CFS) for

02428400 - Alabama River at Claiborne Lock and Dam near Monroeville, Ala.

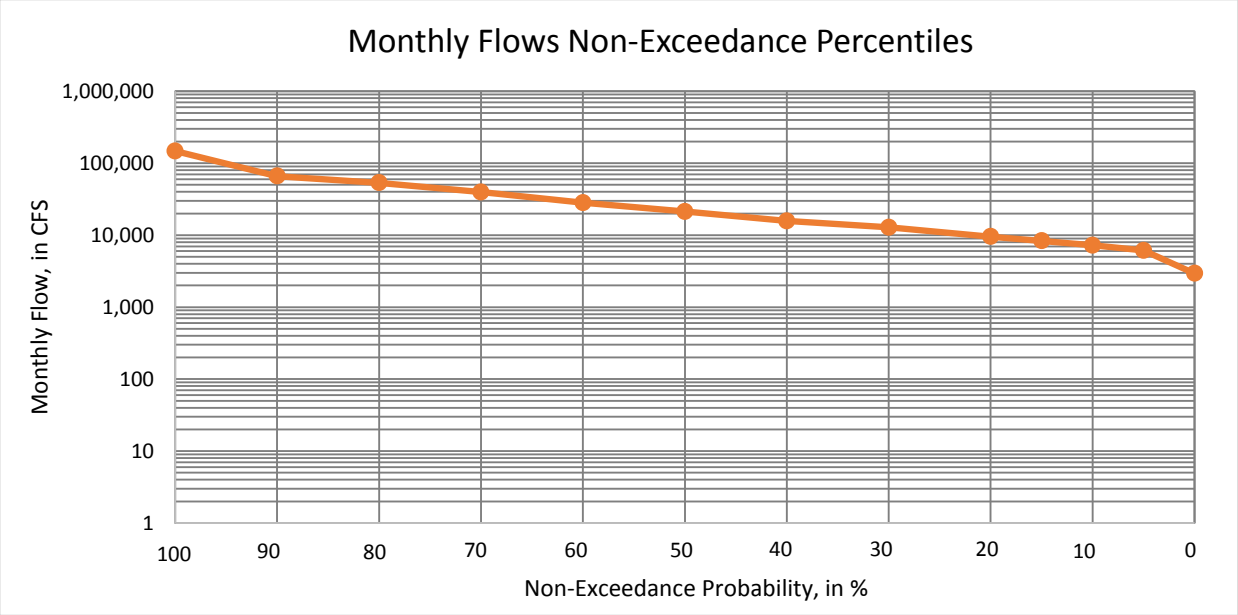
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	79,110	109,400	94,320	84,450	32,950	25,300	29,790	41,240	30,460	57,680	31,170	36,420	54,031
1976	73,520	50,100	89,740	93,140	53,290	24,820	25,460	14,340	12,790	8,845	14,620	38,950	41,623
1977	55,950	32,830	99,940	102,500	17,470	12,980	7,843	10,970	14,200	25,590	48,380	28,270	38,049
1978	66,170	48,410	45,950	24,240	60,290	26,880	9,592	12,670	8,330	6,828	7,612	16,150	27,711
1979	55,690	59,960	109,500	147,600	43,790	29,120	22,810	15,010	19,410	25,920	35,430	23,770	48,813
1980	53,100	51,800	112,500	126,000	62,250	19,740	11,810	8,400	7,075	12,900	14,140	13,710	41,024
1981	9,615	54,070	28,340	46,280	10,050	15,660	8,487	6,988	8,762	6,535	7,712	19,540	18,199
1982	61,850	91,580	49,370	51,770	34,580	16,240	14,950	13,770	6,973	11,240	16,800	78,030	36,973
1983	51,390	82,840	79,400	107,400	51,710	26,680	15,980	9,704	13,230	9,991	32,380	93,480	47,593
1984	77,190	46,720	60,070	54,250	55,010	15,130	15,790	44,030	11,880	11,790	15,940	30,690	36,591
1985	18,490	64,620	29,070	14,720	17,440	8,572	17,820	18,290	9,252	12,530	14,690	22,390	20,393
1986	13,870	26,350	40,380	9,129	8,196	7,756	6,506	6,481	5,486	5,398	28,430	41,240	16,564
1987	53,550	63,430	71,700	27,600	14,490	15,640	13,470	7,970	7,152	6,715	6,609	11,210	24,763
1988	35,830	32,540	17,020	16,130	8,332	6,985	7,585	5,909	21,490	12,230	27,070	17,190	17,228
1989	50,440	27,620	72,320	58,910	19,870	62,470	59,580	14,770	15,130	34,850	34,700	55,490	42,292
1990	86,580	126,000	145,000	40,110	26,110	11,920	11,310	9,006	7,229	9,290	10,870	20,070	41,535
1991	27,920	49,840	50,520	45,130	75,120	29,670	21,360	12,880	12,630	9,657	19,060	27,390	31,673
1992	53,820	60,780	55,350	25,320	10,870	19,030	12,130	17,290	18,880	12,120	65,300	80,910	35,822
1993	90,120	55,600	63,640	45,820	22,360	11,560	10,650	10,430	8,253	7,087	15,760	20,530	30,049
1994	30,740	58,250	61,970	67,130	16,340	14,000	45,430	19,420	16,400	24,830	17,740	48,270	34,921
1995	35,000	65,840	77,170	22,840	13,250	9,559	8,633	8,374	6,206	49,420	54,100	51,250	33,317
1996	56,170	87,870	88,820	42,250	20,790	16,260	12,430	13,870	15,810	13,150	18,500	37,840	35,014
1997	62,450	65,940	81,970	33,740	39,700	47,670	21,350	14,400	9,338	18,950	29,870	47,890	39,323
1998	85,100	102,600	101,500	57,840	24,000	14,790	9,722	10,480	11,790	14,850	10,400	16,440	37,924
1999	33,830	55,970	38,190	16,610	15,540	19,860	31,640	8,579	6,477	8,216	7,902	11,060	20,963
2000	17,630	13,310	29,870	42,700	8,695	6,312	5,859	5,923	5,904	5,484	10,320	14,380	13,843
2001	26,460	34,920	124,500	55,660	13,310	26,480	14,410	12,730	15,850	7,988	9,095	23,260	30,391
2002	36,140	32,020	30,770	22,920	17,250	7,592	7,363	6,860	11,640	16,320	42,910	65,720	24,771
2003	31,170	56,010	68,310	51,030	100,800	55,270	64,600	32,360	13,920	10,050	19,010	23,100	43,801
2004	26,530	60,920	20,050	11,620	14,120	13,030	12,980	8,379	34,810	15,480	51,630	64,850	27,596
2005	26,190	51,160	56,740	79,670	23,930	31,070	58,500	25,060	11,850	9,401	11,730	22,630	33,858
2006	37,090	47,500	41,660	18,490	22,230	7,174	5,828	6,208	5,775	7,570	23,490	16,600	19,810
2007	35,330	19,690	15,700	9,125	6,063	5,029	4,781	4,575	4,592	4,152	3,653	2,937	9,597
2008	7,846	25,560	27,670	21,670	15,730	8,020	4,495	18,720	6,934	6,128	7,332	32,630	15,189
2009	42,530	12,820	68,210	60,400	51,590	12,990	7,454	9,060	37,580	53,270	66,330	100,300	43,788
2010	69,560	82,800	68,120	23,680	30,010	14,880	7,523	6,942	5,079	5,365	9,484	12,750	27,727
2011	14,450	24,240	63,910	43,650	10,600	6,113	7,521	5,749	8,687	5,707	10,900	28,100	19,113
2012	38,890	33,690	37,680	11,600	9,416	6,633	5,393	9,311	13,900	7,637	7,395	24,710	17,132
2013	47,110	93,970	50,050	45,090	54,940	21,160	39,860	25,680	12,420	12,280	13,780	55,330	39,034
2014	47,440	52,300	44,630	84,800	33,200	22,000	11,580	7,031	7,040	10,020	14,120	24,510	29,682

Non-Exceedance Percentiles

02428400 - Alabama River at Claiborne Lock and Dam near Monroeville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	7,846	12,820	15,700	9,125	6,063	5,029	4,495	4,575	4,592	4,152	3,653	2,937	9,597
5th %	13,657	19,371	19,899	11,476	8,325	6,302	5,362	5,901	5,466	5,396	7,296	11,203	15,122
10th %	17,312	25,428	28,273	14,410	9,344	6,950	5,856	6,180	5,891	5,685	7,590	13,614	17,076
15th %	25,035	27,430	29,750	16,538	10,518	7,529	7,234	6,803	6,436	6,474	7,874	15,885	18,053
20th %	26,516	32,436	36,298	21,034	12,774	7,967	7,508	6,979	6,965	6,805	9,406	16,568	19,671
30th %	33,032	43,180	43,739	24,072	15,225	11,812	8,294	8,378	7,206	7,883	10,891	20,392	24,769
40th %	36,016	49,996	50,332	37,562	17,364	13,612	10,279	9,038	8,732	9,357	14,132	23,196	28,900
Median	44,820	53,185	61,020	44,370	21,510	15,385	11,970	10,455	11,715	10,035	15,850	26,050	32,495
60th %	52,074	56,906	68,156	48,180	24,844	17,368	13,846	12,790	12,504	12,164	18,704	31,466	35,337
70th %	55,768	61,673	73,775	56,314	33,614	21,412	16,532	14,358	13,906	12,975	27,478	39,637	37,962
80th %	63,194	69,312	89,004	69,638	51,614	26,520	23,340	17,490	15,818	16,846	32,844	52,066	41,126
90th %	77,382	91,819	102,300	94,076	55,538	29,810	40,417	25,122	19,618	26,813	48,705	66,951	43,790
Maximum	90,120	126,000	145,000	147,600	100,800	62,470	64,600	44,030	37,580	57,680	66,330	100,300	54,031
Average	45,547	55,297	62,791	48,575	29,142	18,801	17,757	13,496	12,515	14,837	22,159	35,000	31,193

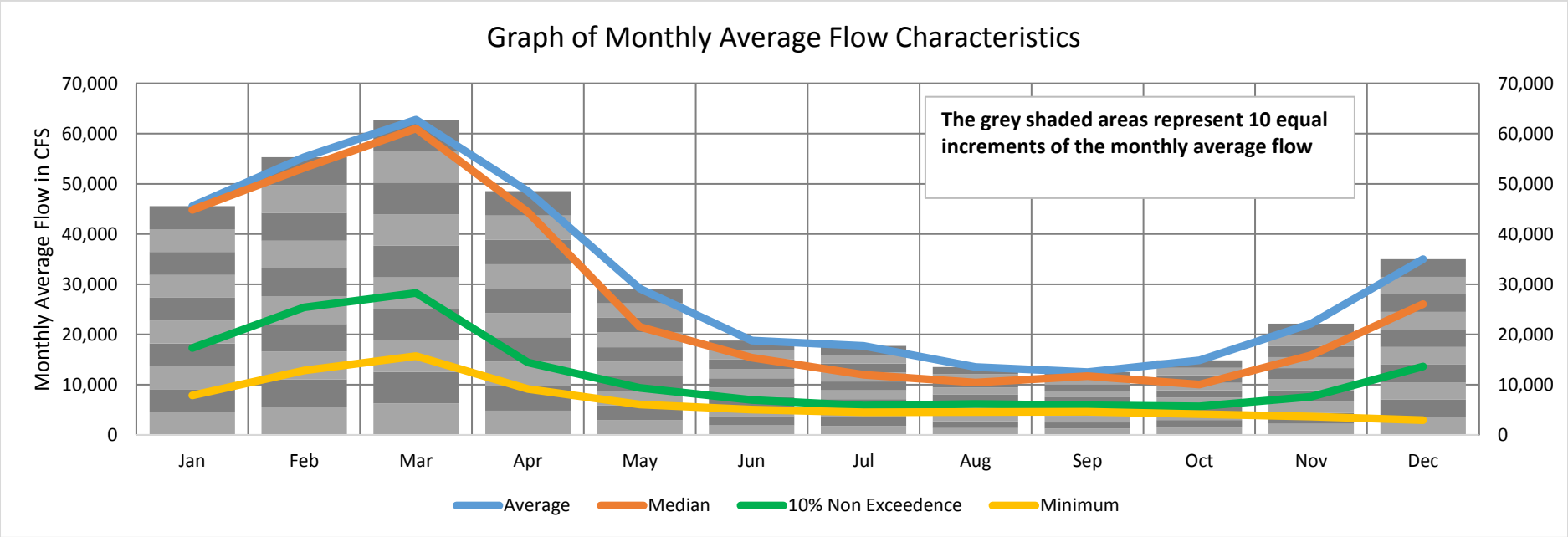
	Flows in CFS
Minimum	2,937.0
5th %	6,127
10th %	7,224
15th %	8,332
20th %	9,544
30th %	12,811
40th %	15,748
Median	21,255
60th %	28,168
70th %	39,748
80th %	53,274
90th %	66,186
Maximum	147,600
Average	31,326



Q10/Q50	0.34
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.14
Q5/DA	0.29
Q10/DA	0.34
Q15/DA	0.39
Q20/DA	0.44
Q30/DA	0.60
Q40/DA	0.73
Q50/DA	0.99
Q60/DA	1.31
Q70/DA	1.85
Q80/DA	2.48
Q90/DA	3.08
Qmax/DA	6.87

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

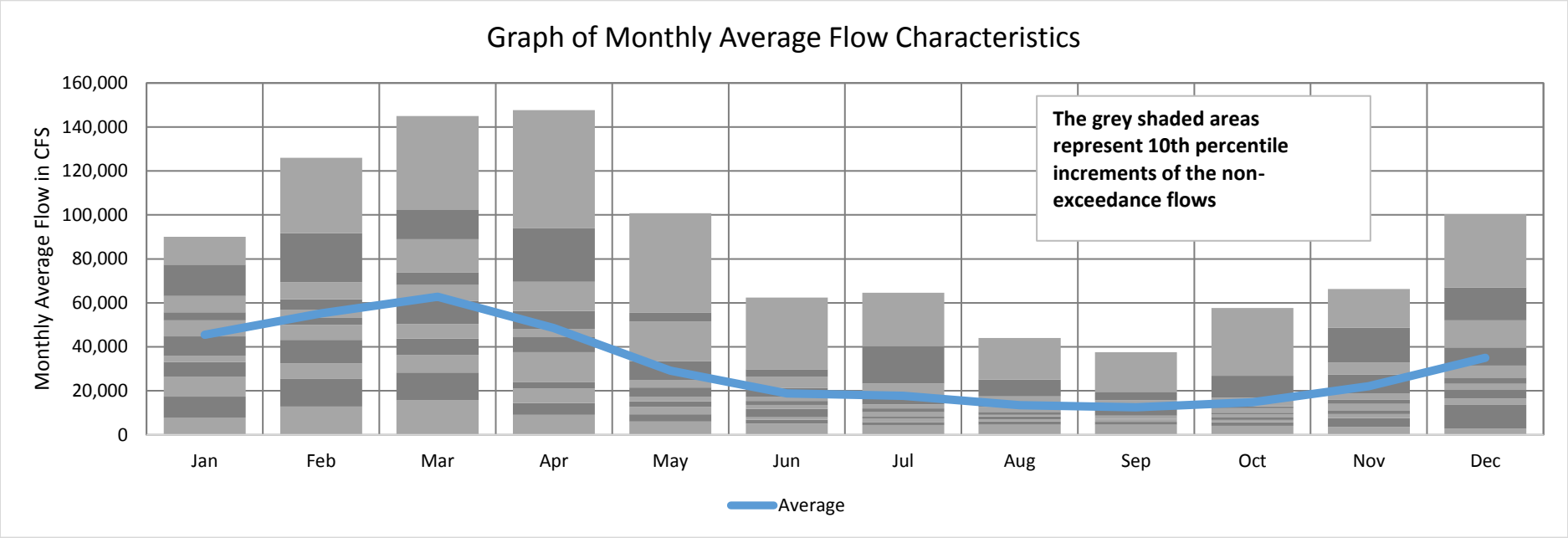
Site #: 02428400 Name: Alabama River at Claiborne Lock and Dam near Monroeville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	45,547	55,297	62,791	48,575	29,142	18,801	17,757	13,496	12,515	14,837	22,159	35,000
100%	90,120	126,000	145,000	147,600	100,800	62,470	64,600	44,030	37,580	57,680	66,330	100,300
98%	87,359	113,052	129,010	130,752	80,770	56,854	60,684	41,854	35,419	54,240	65,527	94,980
95%	85,174	102,940	113,100	108,330	62,894	48,050	58,554	32,804	30,678	49,613	54,660	81,539
90%	77,382	91,819	102,300	94,076	55,538	29,810	40,417	25,122	19,618	26,813	48,705	66,951
75%	57,590	64,925	80,043	59,283	40,723	24,940	21,353	14,830	14,433	15,008	30,195	47,985
50%	44,820	53,185	61,020	44,370	21,510	15,385	11,970	10,455	11,715	10,035	15,850	26,050
25%	30,035	33,475	39,833	22,900	13,918	9,312	7,570	7,735	7,066	7,449	10,380	18,953
10%	17,312	25,428	28,273	14,410	9,344	6,950	5,856	6,180	5,891	5,685	7,590	13,614
5%	13,657	19,371	19,899	11,476	8,325	6,302	5,362	5,901	5,466	5,396	7,296	11,203
2%	9,226	13,202	16,730	9,128	7,727	5,875	4,718	5,491	4,972	5,098	5,959	9,273
0%	7,846	12,820	15,700	9,125	6,063	5,029	4,495	4,575	4,592	4,152	3,653	2,937

Site #: 02428400 Name: Alabama River at Claiborne Lock and Dam near Monroeville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 21,473 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	45,547	55,297	62,791	48,575	29,142	18,801	17,757	13,496	12,515	14,837	22,159	35,000
100%	90,120	126,000	145,000	147,600	100,800	62,470	64,600	44,030	37,580	57,680	66,330	100,300
98%	87,359	113,052	129,010	130,752	80,770	56,854	60,684	41,854	35,419	54,240	65,527	94,980
95%	85,174	102,940	113,100	108,330	62,894	48,050	58,554	32,804	30,678	49,613	54,660	81,539
90%	77,382	91,819	102,300	94,076	55,538	29,810	40,417	25,122	19,618	26,813	48,705	66,951
75%	57,590	64,925	80,043	59,283	40,723	24,940	21,353	14,830	14,433	15,008	30,195	47,985
50%	44,820	53,185	61,020	44,370	21,510	15,385	11,970	10,455	11,715	10,035	15,850	26,050
25%	30,035	33,475	39,833	22,900	13,918	9,312	7,570	7,735	7,066	7,449	10,380	18,953
10%	17,312	25,428	28,273	14,410	9,344	6,950	5,856	6,180	5,891	5,685	7,590	13,614
5%	13,657	19,371	19,899	11,476	8,325	6,302	5,362	5,901	5,466	5,396	7,296	11,203
2%	9,226	13,202	16,730	9,128	7,727	5,875	4,718	5,491	4,972	5,098	5,959	9,273
0%	7,846	12,820	15,700	9,125	6,063	5,029	4,495	4,575	4,592	4,152	3,653	2,937

Monthly Flows (in CFS) for
02428500 - Big Flat Creek near Fountain, Ala.

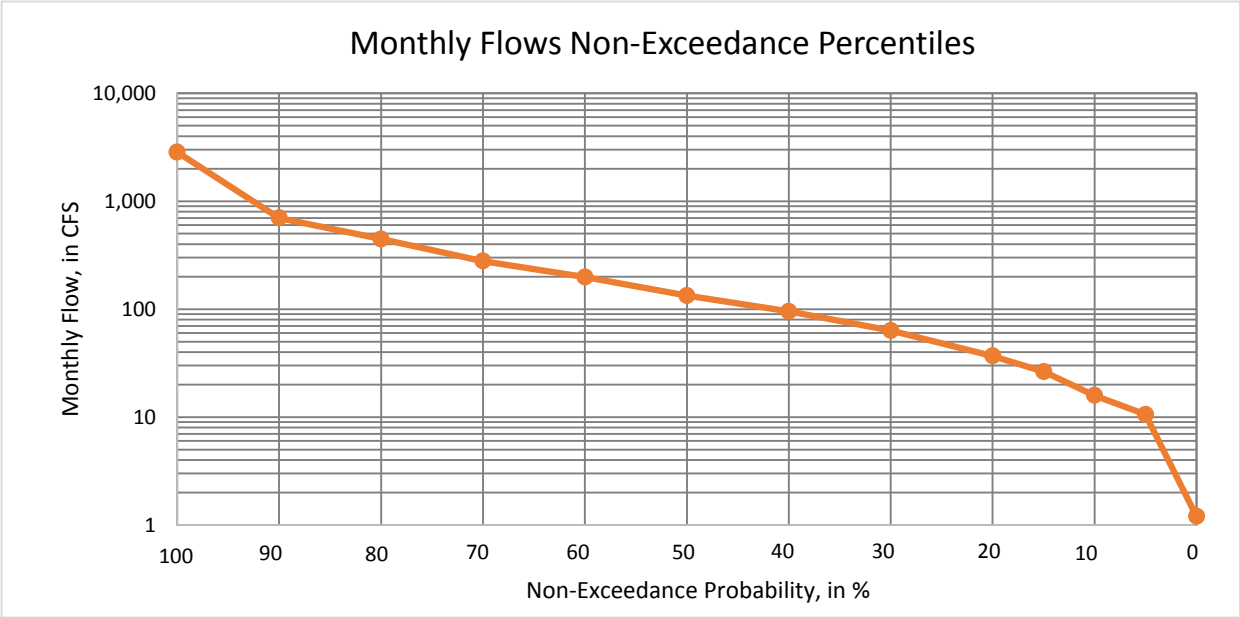
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	531	1,123	868	2,096	503	431	471	1,378	467	609	342	650	786
1976	890	630	621	444	1,331	516	223	99	111	62	246	321	458
1977	408	266	1,333	554	124	60	101	149	82	55	79	84	275
1978	885	310	338	266	1,496	788	145	71	27	21	49	164	382
1979	513	1,051	1,580	1,046	234	145	423	155	177	58	157	282	482
1980	429	260	1,173	2,443	1,239	997	253	116	136	174	141	124	623
1981	97	897	246	132	109	80	23	21	20	10	14	77	138
1982	214	695	206	252	115	30	170	169	22	15	57	142	171
1983	224	866	1,369	1,692	513	564	227	127	100	61	226	407	527
1984	450	454	700	439	727	104	85	352	29	112	81	146	307
1985	148	728	326	108	87	28	234	37	91	73	130	343	191
1986	221	332	535	106	89	29	18	12	20	10	95	136	133
1987	203	455	304	108	88	95	49	69	12	6	65	146	131
1988	455	327	501	131	19	7	38	13	241	42	109	67	162
1989	81	66	311	573	130	486	323	41	33	51	170	365	219
1990	1,014	1,412	2,637	505	348	170	126	33	25	28	38	69	530
1991	260	320	614	203	518	242	222	66	82	35	94	120	231
1992	702	1,025	333	171	52	198	96	62	35	28	854	722	351
1993	618	380	568	429	140	64	184	124	86	77	247	174	257
1994	255	277	265	269	114	158	476	78	48	124	87	125	189
1995	231	513	657	383	104	60	49	289	16	554	224	459	294
1996	920	1,286	1,399	965	231	219	129	65	134	44	69	109	459
1997	272	476	378	170	152	158	42	25	11	22	136	267	174
1998	845	501	1,327	270	48	26	26	14	448	176	61	61	317
1999	118	109	330	84	81	125	148	18	10	24	31	53	95
2000	64	40	52	13	3	6	1	1	3	1	35	64	24
2001	93	84	2,500	314	43	436	57	162	251	136	110	166	366
2002	165	191	406	125	23	10	43	15	53	212	190	313	146
2003	195	391	680	410	268	506	1,411	256	97	57	113	207	384
2004	199	623	129	52	78	113	50	22	360	424	899	553	288
2005	465	497	294	1,936	242	858	1,118	623	445	121	137	185	574
2006	372	405	143	31	65	11	11	16	11	30	172	66	109
2007	290	79	81	96	5	5	12	3	4	15	18	96	59
2008	228	321	148	99	17	7	12	70	13	6	14	87	84
2009	151	45	517	533	461	48	27	56	125	66	273	2,849	435
2010	1,655	1,362	830	214	314	77	36	49	13	12	39	56	383
2011	70	258	248	56	6	3	14	4	9	4	11	29	58
2012	43	188	103	20	22	32	12	58	85	15	6	55	52
2013	58	1,406	271	358	95	47	73	49	31	12	21	383	225
2014	203	468	396	982	657	147	33	27	34	25	42	175	264

Non-Exceedance Percentiles

02428500 - Big Flat Creek near Fountain, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	43	40	52	13	3	3	1	1	3	1	6	29	24
5th %	63	65	102	30	6	6	12	4	8	6	13	55	58
10th %	80	83	141	55	19	7	12	13	11	9	17	60	81
15th %	96	176	197	95	23	11	18	15	11	12	29	66	107
20th %	142	245	248	105	47	28	26	18	13	14	37	68	133
30th %	198	300	301	129	80	42	37	26	21	22	55	93	168
40th %	219	330	332	190	93	63	49	46	30	28	75	124	208
Median	243	429	401	267	115	100	79	60	41	43	95	146	260
60th %	323	484	548	368	145	145	127	69	83	57	120	175	299
70th %	451	625	664	441	250	178	174	104	98	68	146	271	371
80th %	549	872	929	558	469	432	228	150	135	122	197	347	439
90th %	885	1,139	1,372	1,110	664	521	428	260	262	180	250	468	528
Maximum	1,655	1,412	2,637	2,443	1,496	997	1,411	1,378	467	609	899	2,849	786
Average	381	528	643	477	272	202	180	125	100	90	147	272	283

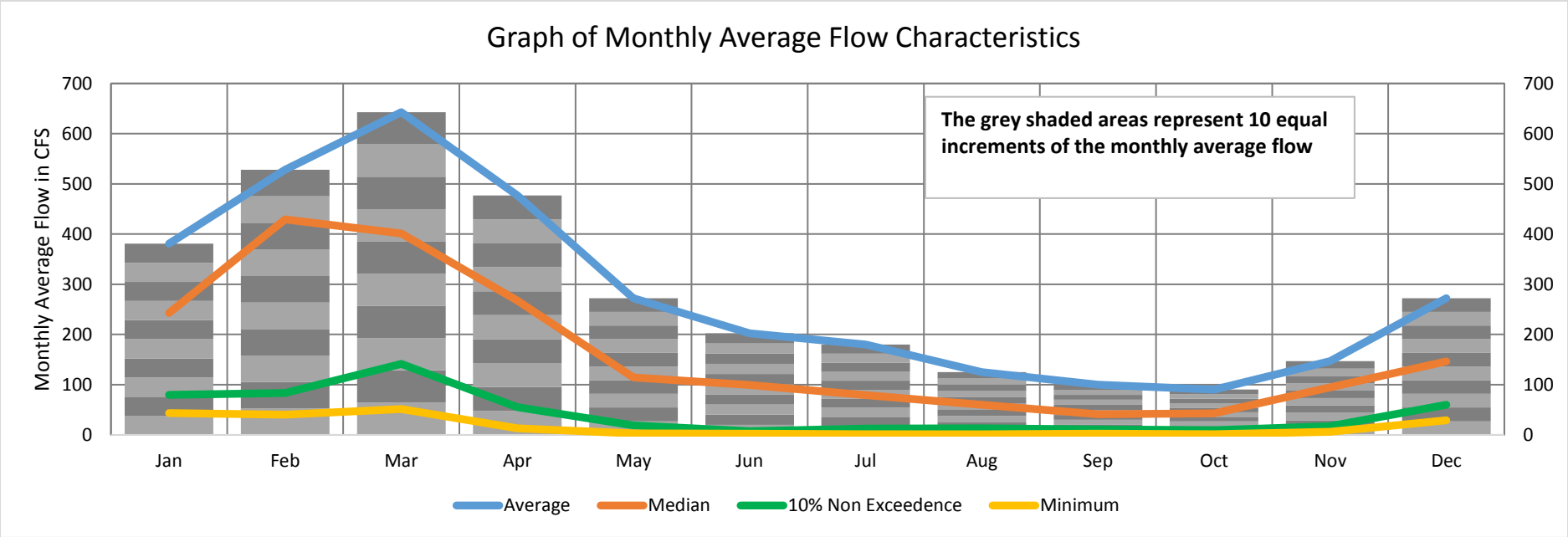
	Flows in CFS
Minimum	1.2
5th %	11
10th %	16
15th %	26
20th %	37
30th %	63
40th %	95
Median	133
60th %	198
70th %	279
80th %	445
90th %	700
Maximum	2,849
Average	285



Q10/Q50	0.12
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.00
Q5/DA	0.04
Q10/DA	0.06
Q15/DA	0.11
Q20/DA	0.15
Q30/DA	0.26
Q40/DA	0.39
Q50/DA	0.54
Q60/DA	0.80
Q70/DA	1.13
Q80/DA	1.80
Q90/DA	2.83
Qmax/DA	11.54

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

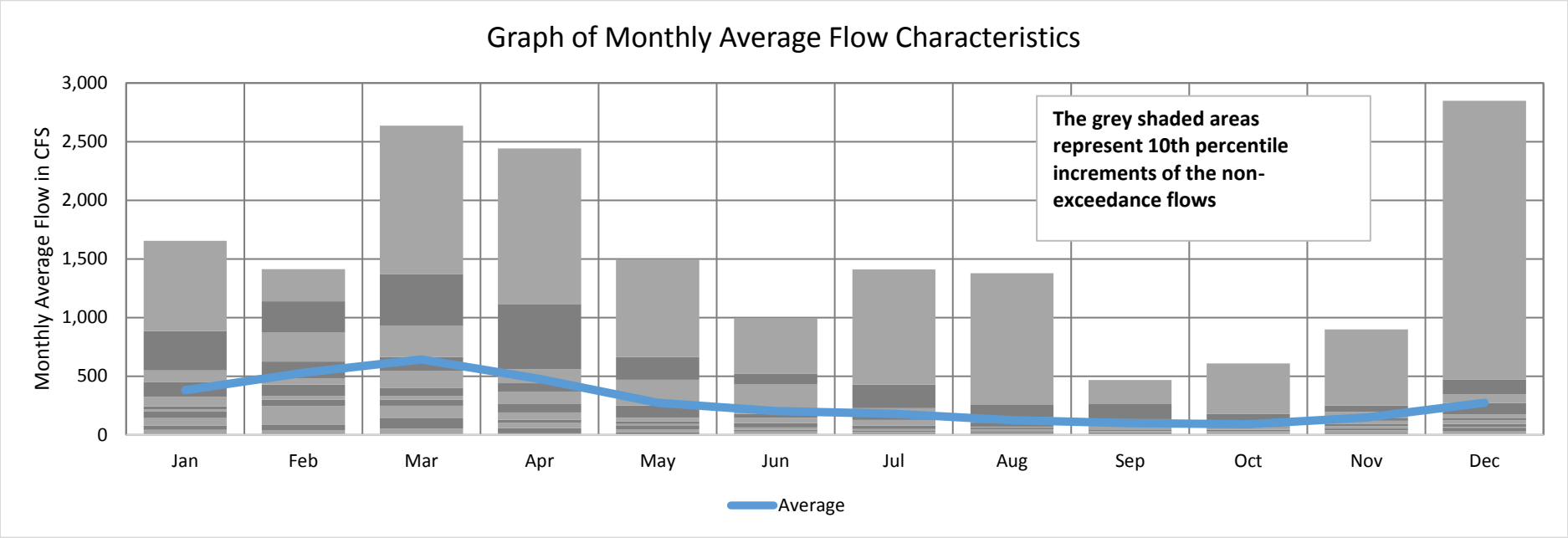
Site #: 02428500 Name: Big Flat Creek near Fountain, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	381	528	643	477	272	202	180	125	100	90	147	272
100%	1,655	1,412	2,637	2,443	1,496	997	1,411	1,378	467	609	899	2,849
98%	1,155	1,407	2,530	2,173	1,367	889	1,183	789	452	566	864	1,190
95%	925	1,364	1,626	1,944	1,243	792	508	366	445	430	367	654
90%	885	1,139	1,372	1,110	664	521	428	260	262	180	250	468
75%	477	703	732	512	323	225	222	125	115	86	171	315
50%	243	429	401	267	115	100	79	60	41	43	95	146
25%	162	265	270	108	61	30	31	22	19	15	41	82
10%	80	83	141	55	19	7.4	12	13	11	9.3	17	60
5%	63	65	102	30	6.4	6.3	12	4.4	8.3	5.8	13	55
2%	55	44	75	18	4.7	4.4	9.1	3.0	3.7	3.3	9.6	48
0%	43	40	52	13	2.9	2.5	1.5	1.2	2.7	1.5	6.2	29

Site #: 02428500 Name: Big Flat Creek near Fountain, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 247 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	381	528	643	477	272	202	180	125	100	90	147	272
100%	1,655	1,412	2,637	2,443	1,496	997	1,411	1,378	467	609	899	2,849
98%	1,155	1,407	2,530	2,173	1,367	889	1,183	789	452	566	864	1,190
95%	925	1,364	1,626	1,944	1,243	792	508	366	445	430	367	654
90%	885	1,139	1,372	1,110	664	521	428	260	262	180	250	468
75%	477	703	732	512	323	225	222	125	115	86	171	315
50%	243	429	401	267	115	100	79	60	41	43	95	146
25%	162	265	270	108	61	30	31	22	19	15	41	82
10%	80	83	141	55	19	7.4	12	13	11	9.3	17	60
5%	63	65	102	30	6.4	6.3	12	4.4	8.3	5.8	13	55
2%	55	44	75	18	4.7	4.4	9.1	3.0	3.7	3.3	9.6	48
0%	43	40	52	13	2.9	2.5	1.5	1.2	2.7	1.5	6.2	29

Monthly Flows (in CFS) for
02429000 - Limestone Creek near Monroeville, Ala.

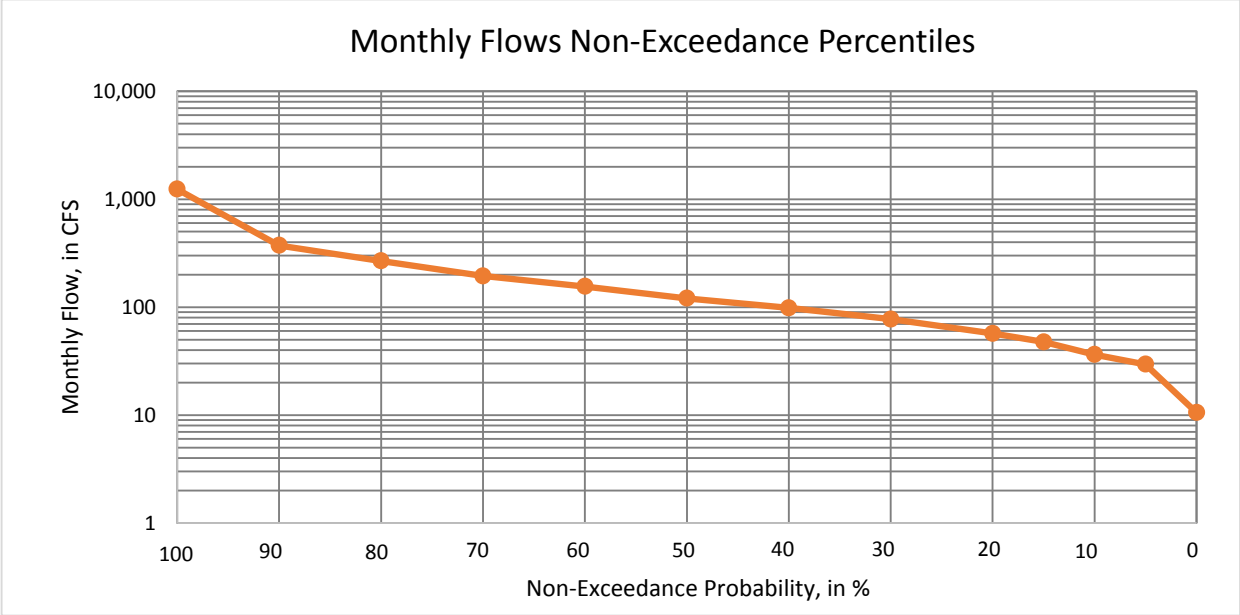
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	304	540	440	924	292	262	279	639	277	336	223	353	405
1976	448	345	341	268	621	298	168	101	108	77	179	214	264
1977	252	188	622	314	116	75	102	129	90	72	88	91	179
1978	447	208	221	188	686	408	127	83	48	42	67	138	223
1979	297	512	719	510	173	127	259	133	144	74	134	196	271
1980	261	186	559	1,066	585	491	182	111	122	143	125	116	329
1981	100	451	179	120	107	89	44	42	42	28	34	87	108
1982	163	371	159	182	110	51	141	140	43	35	73	126	131
1983	168	439	636	763	297	318	169	117	101	76	169	252	290
1984	270	272	373	265	384	104	92	227	50	108	89	128	197
1985	129	384	216	106	93	49	173	57	96	84	119	223	143
1986	167	218	306	105	94	50	39	31	41	28	98	123	108
1987	158	272	206	106	94	98	67	81	31	22	78	128	111
1988	272	216	292	120	40	24	58	33	176	61	107	80	123
1989	89	79	209	322	119	285	214	60	54	69	141	233	156
1990	497	653	1,146	293	226	141	117	53	46	50	58	81	279
1991	185	213	338	157	299	177	167	80	90	55	98	113	164
1992	374	502	219	141	69	155	99	76	55	49	434	382	211
1993	340	240	319	261	125	78	148	116	92	87	179	143	177
1994	183	193	188	190	110	134	281	87	66	116	93	116	146
1995	171	296	356	241	104	75	67	199	36	314	168	274	192
1996	460	604	648	478	171	165	118	78	121	63	81	107	256
1997	191	281	239	141	131	134	61	46	30	43	122	188	133
1998	431	292	620	190	66	48	47	34	269	144	76	76	191
1999	112	107	218	91	90	116	129	39	28	45	52	70	92
2000	78	60	69	33	16	23	11	11	15	12	55	78	38
2001	97	91	1,089	210	62	264	73	136	181	123	107	139	216
2002	138	151	251	116	44	29	62	36	70	162	151	210	118
2003	154	245	365	253	189	294	652	184	99	73	109	160	232
2004	155	342	118	69	87	109	68	43	231	259	452	313	186
2005	276	290	201	860	177	436	538	342	268	114	123	148	313
2006	236	251	126	51	78	30	30	36	30	51	142	79	94
2007	200	88	90	99	21	20	31	17	18	35	39	99	63
2008	170	214	129	101	38	25	32	82	33	22	34	93	80
2009	131	64	298	305	275	66	49	73	116	80	191	1,236	242
2010	748	633	425	163	210	86	56	67	33	32	59	72	213
2011	82	184	180	72	23	15	34	19	26	18	30	50	60
2012	62	150	103	41	43	53	31	74	92	35	23	72	64
2013	74	650	191	230	98	65	84	67	52	31	42	241	149
2014	158	278	247	485	356	128	53	48	54	47	61	144	170

Non-Exceedance Percentiles

02429000 - Limestone Creek near Monroeville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	62	60	69	33	16	15	11	11	15	12	23	50	38
5th %	77	79	103	51	23	23	31	19	26	22	33	72	63
10th %	89	91	125	72	40	25	32	33	30	28	38	75	79
15th %	99	143	155	98	44	30	38	36	31	31	50	79	94
20th %	126	178	179	104	65	49	47	39	33	34	57	81	108
30th %	155	204	204	119	89	61	57	47	42	43	71	97	129
40th %	165	218	219	151	97	77	67	64	51	49	85	116	148
Median	177	261	249	189	110	101	88	75	60	62	98	128	174
60th %	214	285	311	235	127	128	117	82	91	73	113	143	191
70th %	271	343	359	266	180	145	143	104	100	81	128	191	214
80th %	311	442	464	315	278	262	170	130	122	114	154	225	245
90th %	447	546	637	535	359	300	261	185	186	146	181	278	280
Maximum	748	653	1,146	1,066	686	491	652	639	277	336	452	1,236	405
Average	231	294	341	266	173	140	129	101	89	83	118	179	178

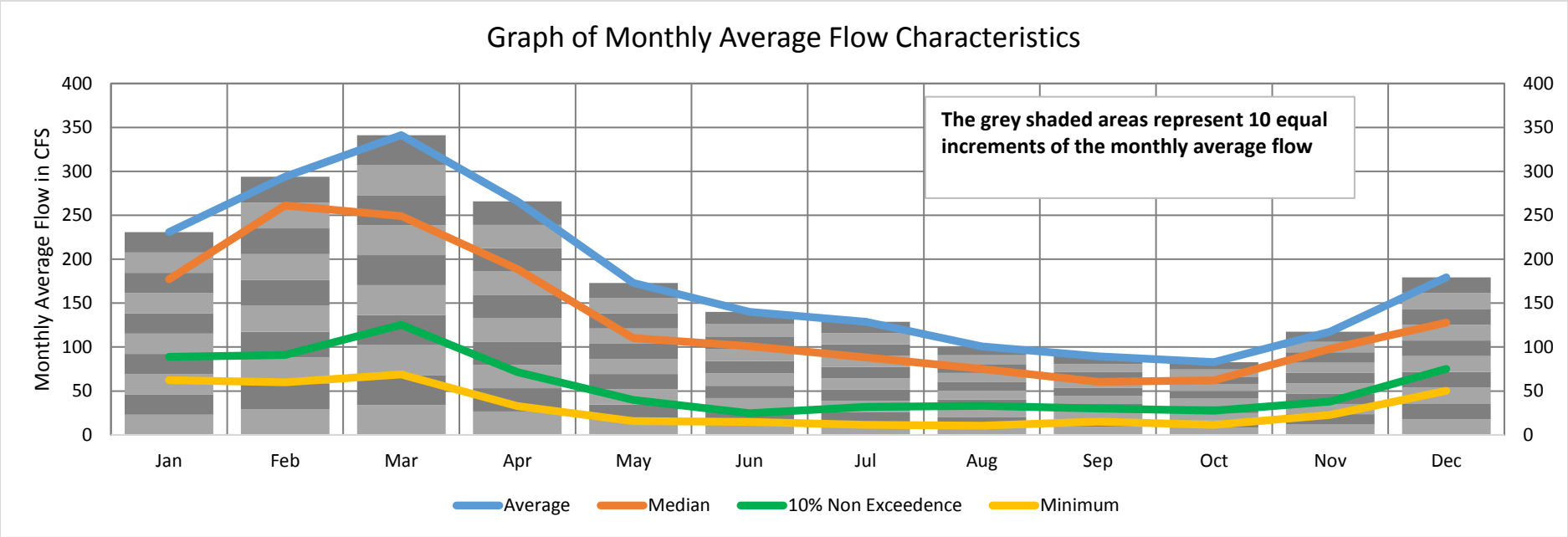
	Flows in CFS
Minimum	10.5
5th %	29
10th %	36
15th %	48
20th %	57
30th %	77
40th %	98
Median	121
60th %	155
70th %	194
80th %	268
90th %	373
Maximum	1,236
Average	179



Q10/Q50	0.30
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.09
Q5/DA	0.24
Q10/DA	0.30
Q15/DA	0.39
Q20/DA	0.47
Q30/DA	0.64
Q40/DA	0.81
Q50/DA	1.00
Q60/DA	1.28
Q70/DA	1.60
Q80/DA	2.22
Q90/DA	3.08
Qmax/DA	10.21

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

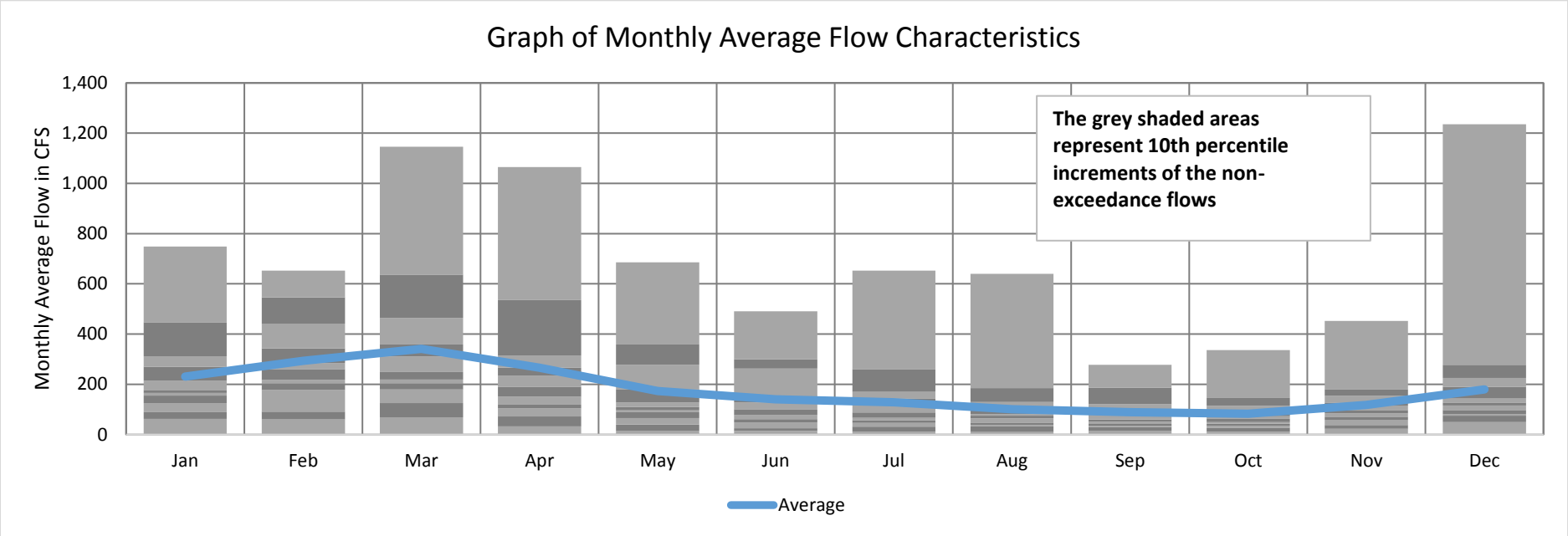
Site #: 02429000 Name: Limestone Creek near Monroeville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	231	294	341	266	173	140	129	101	89	83	118	179
100%	748	653	1,146	1,066	686	491	652	639	277	336	452	1,236
98%	553	651	1,102	955	635	448	563	407	271	319	438	570
95%	462	634	737	863	587	410	294	233	268	262	233	354
90%	447	546	637	535	359	300	261	185	186	146	181	278
75%	281	374	386	296	214	168	167	116	110	92	141	211
50%	177	261	249	189	110	101	88	75	60	62	98	128
25%	136	188	190	106	76	51	52	43	40	35	60	90
10%	89	91	125	72	40	25	32	33	30	28	38	75
5%	77	79	103	51	23	23	31	19	26	22	33	72
2%	71	63	85	39	20	19	26	16	18	17	28	65
0%	62	60	69	33	16	15	11	11	15	12	23	50

Site #: 02429000 Name: Limestone Creek near Monroeville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 121 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	231	294	341	266	173	140	129	101	89	83	118	179
100%	748	653	1,146	1,066	686	491	652	639	277	336	452	1,236
98%	553	651	1,102	955	635	448	563	407	271	319	438	570
95%	462	634	737	863	587	410	294	233	268	262	233	354
90%	447	546	637	535	359	300	261	185	186	146	181	278
75%	281	374	386	296	214	168	167	116	110	92	141	211
50%	177	261	249	189	110	101	88	75	60	62	98	128
25%	136	188	190	106	76	51	52	43	40	35	60	90
10%	89	91	125	72	40	25	32	33	30	28	38	75
5%	77	79	103	51	23	23	31	19	26	22	33	72
2%	71	63	85	39	20	19	26	16	18	17	28	65
0%	62	60	69	33	16	15	11	11	15	12	23	50

Monthly Flows (in CFS) for
02429595 - Little River near Uriah, Ala.

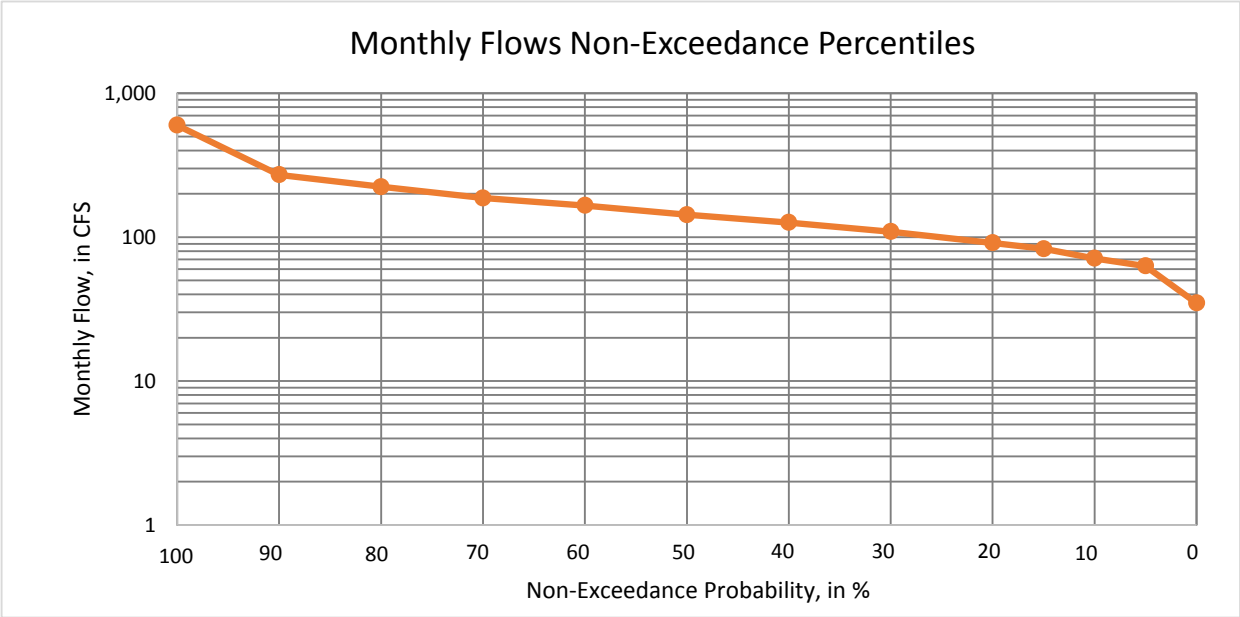
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	206	233	315	599	269	207	271	359	281	241	177	207	280
1976	268	224	228	162	233	187	150	96	109	90	143	172	172
1977	206	152	315	170	99	74	105	220	237	166	196	181	177
1978	377	229	223	178	294	369	179	132	117	89	126	177	207
1979	254	371	398	343	232	135	200	128	173	107	151	188	222
1980	222	182	344	500	353	319	180	136	143	157	145	139	235
1981	127	304	178	142	132	119	80	77	77	61	68	117	122
1982	169	272	167	180	135	87	155	155	78	70	107	146	143
1983	172	300	371	412	239	249	173	140	128	109	173	217	223
1984	226	227	273	224	277	130	122	205	85	134	120	147	181
1985	148	277	199	132	123	85	175	92	124	115	141	203	151
1986	171	200	243	131	123	85	74	65	76	62	126	143	125
1987	166	227	193	132	123	126	101	113	65	53	111	147	129
1988	227	199	237	142	75	57	93	68	177	96	133	112	134
1989	120	112	195	250	141	234	198	95	89	103	155	208	158
1990	322	377	521	237	204	155	139	89	82	85	93	113	201
1991	182	197	258	166	240	177	171	112	120	91	126	137	165
1992	273	323	201	156	103	164	127	109	90	85	298	276	183
1993	258	211	249	222	145	111	160	139	122	118	179	157	172
1994	181	187	183	185	135	151	232	118	100	139	122	139	156
1995	174	239	265	212	130	108	101	190	71	247	172	228	178
1996	308	360	375	315	174	171	140	111	143	98	113	133	202
1997	185	232	211	155	149	151	96	82	64	79	143	184	144
1998	296	237	365	185	100	83	83	68	226	158	109	109	168
1999	136	133	200	121	120	139	148	74	62	81	87	104	117
2000	110	95	103	67	44	55	37	35	43	37	91	110	69
2001	125	121	506	196	97	223	106	153	180	143	133	154	179
2002	154	162	217	139	80	63	97	71	104	169	162	196	134
2003	163	214	269	218	184	238	376	181	127	106	134	167	198
2004	165	259	141	103	118	134	102	79	207	221	305	246	172
2005	229	236	191	441	177	298	337	259	225	138	144	160	236
2006	210	217	146	87	111	64	64	71	64	86	156	112	115
2007	190	118	120	127	52	51	65	46	48	70	74	127	91
2008	173	198	148	128	73	57	66	114	68	54	68	122	105
2009	149	98	240	243	229	101	84	106	139	112	186	544	187
2010	407	370	294	169	196	117	91	101	67	66	94	105	172
2011	114	182	179	105	55	42	68	49	59	47	63	86	87
2012	97	161	130	76	79	88	65	107	122	70	54	105	96
2013	107	376	185	206	126	100	116	101	88	65	77	212	145
2014	166	230	215	317	265	147	89	83	90	82	96	157	161

Non-Exceedance Percentiles

02429595 - Little River near Uriah, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	97	95	103	67	44	42	37	35	43	37	54	86	69
5th %	110	111	130	86	55	54	65	49	59	53	68	105	90
10th %	119	121	145	105	75	57	66	67	64	61	73	108	104
15th %	127	149	164	126	80	64	73	70	65	65	86	111	117
20th %	145	162	179	131	98	81	82	74	68	69	93	113	124
30th %	164	194	193	141	116	88	93	83	78	80	108	131	140
40th %	171	207	200	160	123	110	101	96	89	86	121	142	154
Median	177	226	220	174	134	128	111	107	102	93	129	151	166
60th %	196	231	241	189	147	142	140	112	121	107	142	163	172
70th %	223	237	267	219	188	158	157	129	128	116	147	182	179
80th %	255	282	315	244	232	191	176	143	149	140	164	204	199
90th %	297	361	371	350	266	239	203	191	209	167	179	218	222
Maximum	407	377	521	599	353	369	376	359	281	247	305	544	280
Average	198	226	245	207	156	141	135	118	117	107	134	167	162

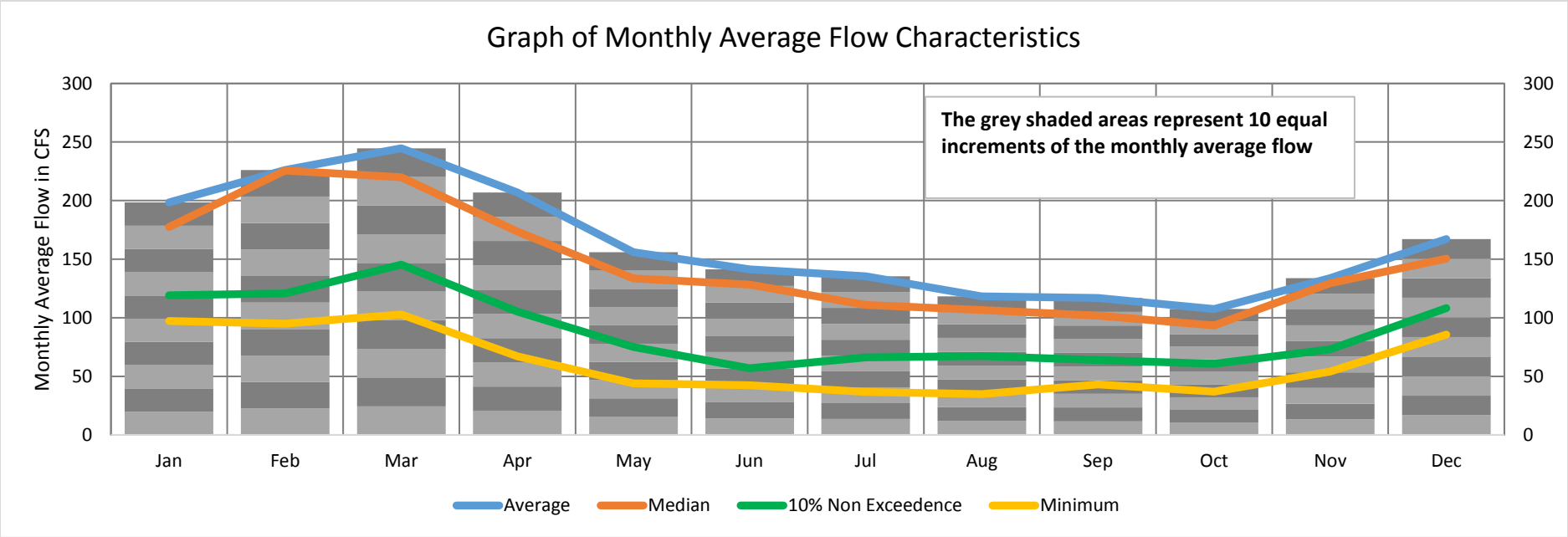
	Flows in CFS
Minimum	34.8
5th %	63
10th %	71
15th %	83
20th %	91
30th %	109
40th %	126
Median	143
60th %	166
70th %	187
80th %	224
90th %	271
Maximum	599
Average	163



Q10/Q50	0.50
Q10/Q90	0.26
	CFSM*
Qmin/DA	0.37
Q5/DA	0.66
Q10/DA	0.75
Q15/DA	0.87
Q20/DA	0.96
Q30/DA	1.15
Q40/DA	1.33
Q50/DA	1.50
Q60/DA	1.75
Q70/DA	1.96
Q80/DA	2.35
Q90/DA	2.85
Qmax/DA	6.29

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

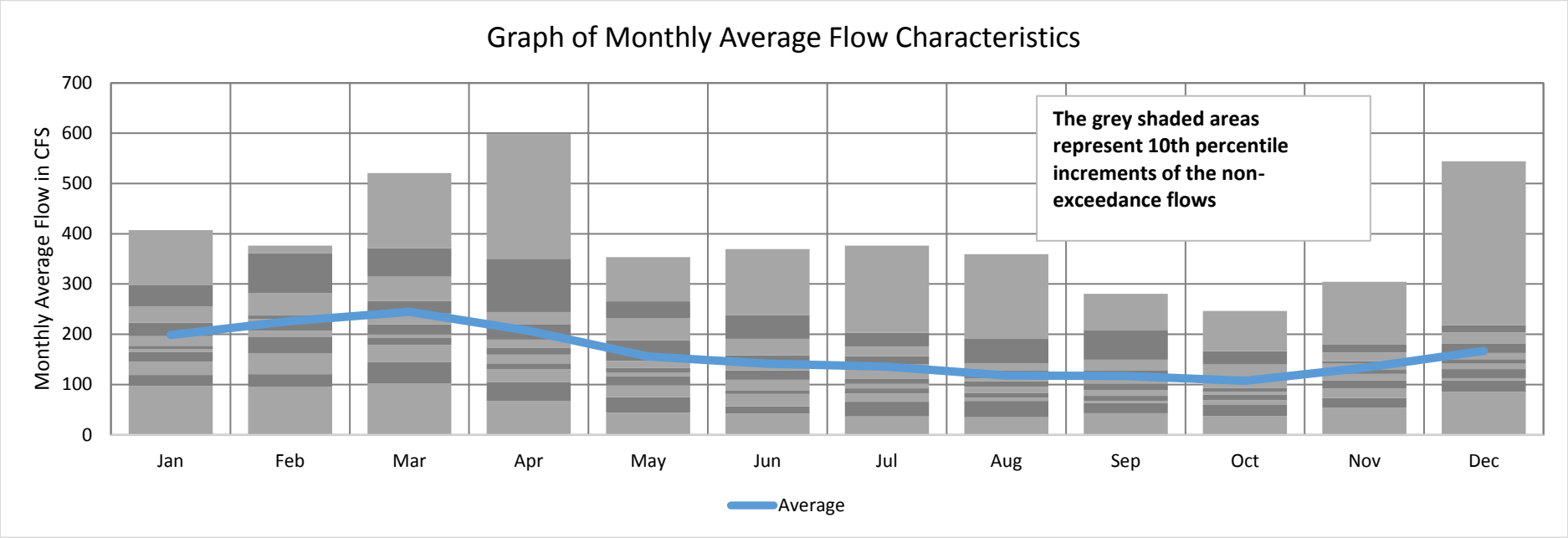
Site #: 02429595 Name: Little River near Uriah, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	198	226	245	207	156	141	135	118	117	107	134	167
100%	407	377	521	599	353	369	376	359	281	247	305	544
98%	384	376	509	521	307	330	346	281	246	242	299	335
95%	325	371	403	444	278	299	274	222	226	222	201	248
90%	297	361	371	350	266	239	203	191	209	167	179	218
75%	228	262	278	227	210	172	172	136	140	135	156	190
50%	177	226	220	174	134	128	111	107	102	93	129	151
25%	153	182	185	132	102	85	88	78	75	70	95	121
10%	119	121	145	105	75	57	66	67	64	61	73	108
5%	110	111	130	86	55	54	65	49	59	53	68	105
2%	105	98	116	74	50	49	58	44	47	45	61	100
0%	97	95	103	67	44	42	37	35	43	37	54	86

Site #: 02429595 Name: Little River near Uriah, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 95 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	198	226	245	207	156	141	135	118	117	107	134	167
100%	407	377	521	599	353	369	376	359	281	247	305	544
98%	384	376	509	521	307	330	346	281	246	242	299	335
95%	325	371	403	444	278	299	274	222	226	222	201	248
90%	297	361	371	350	266	239	203	191	209	167	179	218
75%	228	262	278	227	210	172	172	136	140	135	156	190
50%	177	226	220	174	134	128	111	107	102	93	129	151
25%	153	182	185	132	102	85	88	78	75	70	95	121
10%	119	121	145	105	75	57	66	67	64	61	73	108
5%	110	111	130	86	55	54	65	49	59	53	68	105
2%	105	98	116	74	50	49	58	44	47	45	61	100
0%	97	95	103	67	44	42	37	35	43	37	54	86

Monthly Flows (in CFS) for

02438000 - Buttahatchee River below Hamilton, Ala.

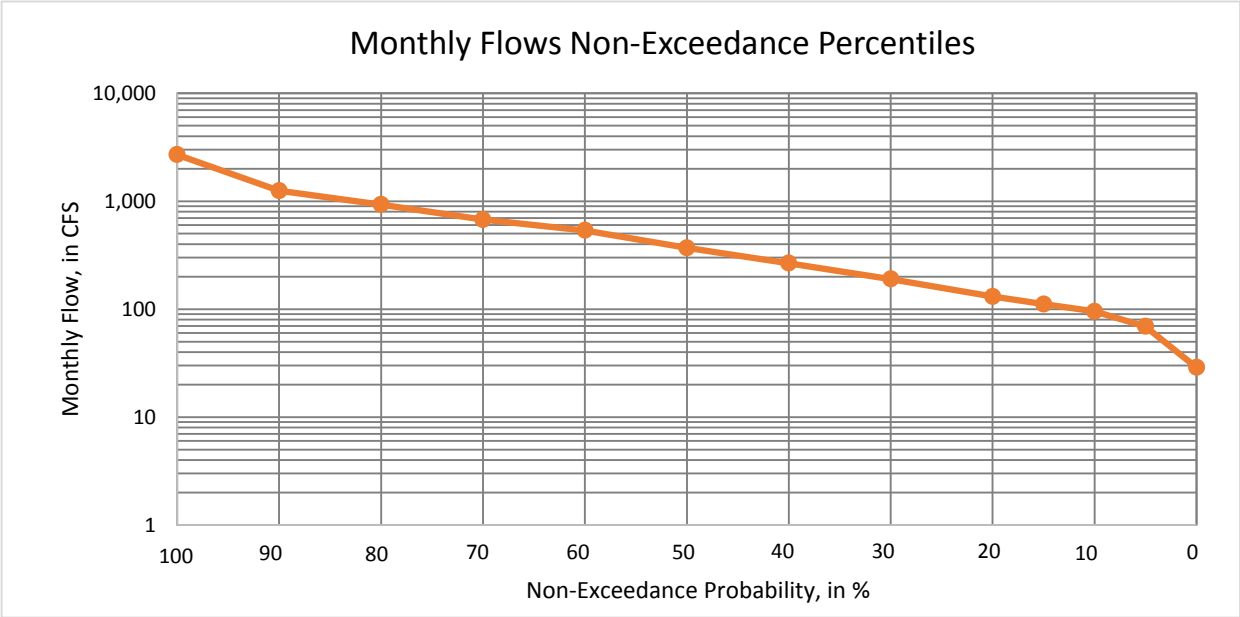
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,752	1,397	1,965	1,003	510	425	332	479	288	953	566	551	850
1976	864	962	1,108	714	454	336	179	103	218	128	184	414	469
1977	807	622	2,020	1,030	206	130	127	106	214	636	1,182	956	670
1978	787	389	809	297	1,077	431	116	85	80	80	113	305	382
1979	1,531	865	1,255	1,652	542	232	254	148	427	156	1,042	569	720
1980	922	642	2,561	1,558	953	254	150	93	130	313	497	337	702
1981	267	606	533	829	209	163	175	95	87	81	106	263	282
1982	1,551	813	720	1,236	328	194	203	305	72	93	197	1,229	578
1983	677	1,435	1,315	2,170	1,743	569	280	102	111	103	430	2,048	912
1984	955	589	821	1,088	1,455	194	129	97	50	468	976	606	620
1985	414	1,158	394	422	1,384	234	247	240	125	191	322	279	447
1986	204	549	552	180	293	486	86	64	66	140	901	745	353
1987	990	879	1,254	309	162	213	90	56	52	41	101	181	358
1988	386	469	282	473	118	41	53	33	196	348	737	450	297
1989	1,726	1,030	1,643	676	430	613	717	172	187	579	507	363	720
1990	1,431	1,969	1,258	460	864	445	128	69	66	87	135	2,393	771
1991	734	2,254	1,461	2,463	2,694	478	202	156	136	111	158	1,719	1,040
1992	355	508	635	333	131	144	119	121	138	100	450	643	305
1993	768	610	1,003	769	566	227	106	208	177	107	363	595	458
1994	956	1,794	1,394	640	233	279	707	177	96	227	368	492	607
1995	778	1,187	1,284	991	690	408	187	133	93	130	431	660	577
1996	1,226	666	891	737	276	247	202	173	264	178	623	1,005	540
1997	1,213	904	977	420	1,543	1,776	593	245	167	239	235	544	738
1998	1,625	1,077	1,009	489	200	168	282	214	74	72	116	643	496
1999	1,478	666	925	665	620	194	153	48	49	57	108	167	427
2000	299	223	382	1,248	126	98	49	33	29	31	218	289	250
2001	791	1,026	815	1,330	250	857	159	147	237	354	238	1,146	609
2002	982	552	996	586	1,475	188	231	106	172	413	724	1,013	623
2003	529	1,906	989	674	1,889	408	232	389	285	161	480	487	695
2004	623	1,817	1,232	306	182	271	369	257	207	328	1,434	1,915	738
2005	615	802	562	984	211	430	374	295	340	123	359	665	477
2006	1,153	1,006	495	539	492	96	61	65	95	244	766	370	445
2007	967	591	315	244	108	57	100	48	129	115	140	139	244
2008	248	823	680	466	829	151	64	79	67	72	106	1,562	428
2009	917	377	1,151	717	1,352	207	101	159	566	1,389	533	1,107	720
2010	1,103	1,074	702	558	871	269	131	122	62	69	147	142	434
2011	822	348	1,225	1,671	340	185	86	142	289	82	120	627	495
2012	1,003	625	589	274	174	100	92	99	342	288	117	626	360
2013	1,524	859	904	773	759	234	558	174	163	110	183	634	573
2014	596	1,070	397	850	288	361	124	84	74	315	331	1,092	461

Non-Exceedance Percentiles

02438000 - Buttahatchee River below Hamilton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	204	223	282	180	108	41	49	33	29	31	101	139	244
5th %	266	375	379	272	126	94	61	47	50	56	106	165	280
10th %	349	461	396	305	159	100	84	55	61	71	112	254	304
15th %	410	543	527	329	180	142	90	65	66	79	117	287	358
20th %	583	581	560	422	205	160	98	77	71	82	132	330	378
30th %	717	619	696	484	245	192	118	94	85	102	176	439	442
40th %	790	666	819	618	314	211	129	103	105	114	228	548	466
Median	890	841	951	695	473	234	156	122	133	135	345	616	518
60th %	960	927	1,005	771	588	270	193	147	169	183	430	643	590
70th %	1,033	1,042	1,227	986	840	375	231	172	199	257	500	808	637
80th %	1,267	1,164	1,263	1,117	1,132	430	281	209	242	332	643	1,095	720
90th %	1,533	1,796	1,479	1,567	1,482	494	393	261	294	479	909	1,578	742
Maximum	1,752	2,254	2,561	2,463	2,694	1,776	717	479	566	1,389	1,434	2,393	1,040
Average	914	928	988	821	676	320	214	148	165	243	419	749	547

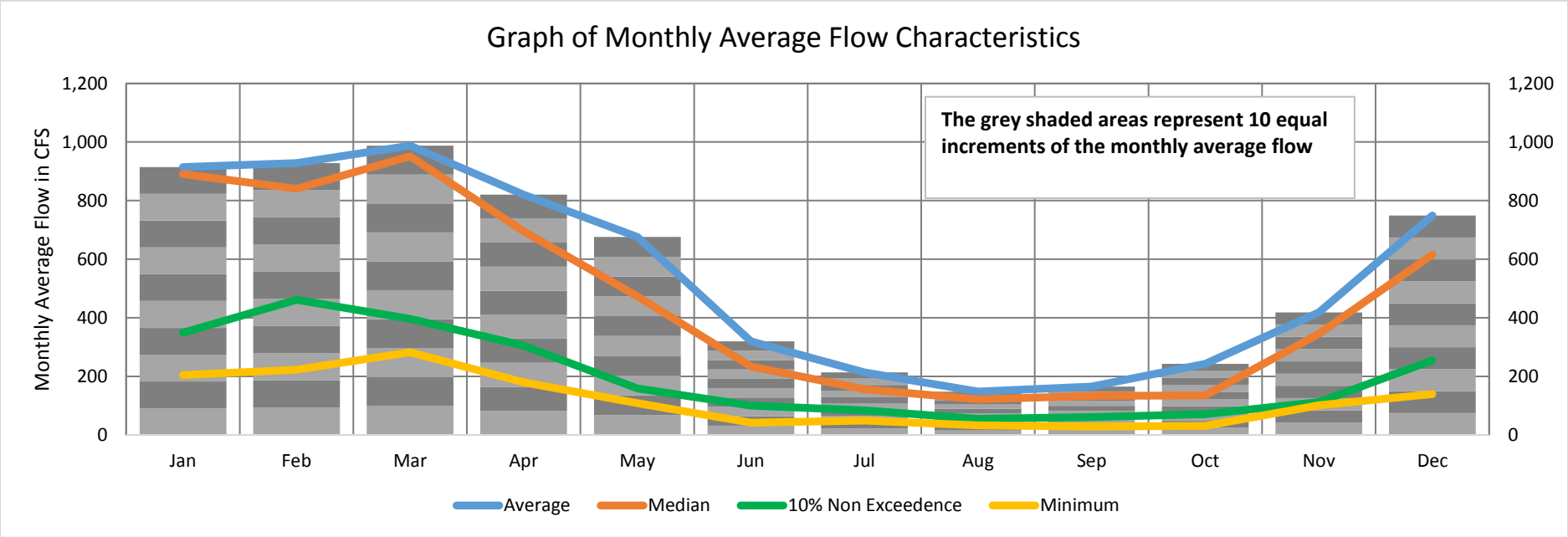
	Flows in CFS
Minimum	28.8
5th %	69
10th %	95
15th %	111
20th %	131
30th %	190
40th %	266
Median	369
60th %	535
70th %	675
80th %	931
90th %	1,249
Maximum	2,694
Average	549



Q10/Q50	0.26
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.10
Q5/DA	0.25
Q10/DA	0.34
Q15/DA	0.40
Q20/DA	0.47
Q30/DA	0.69
Q40/DA	0.96
Q50/DA	1.33
Q60/DA	1.93
Q70/DA	2.44
Q80/DA	3.36
Q90/DA	4.51
Qmax/DA	9.73

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

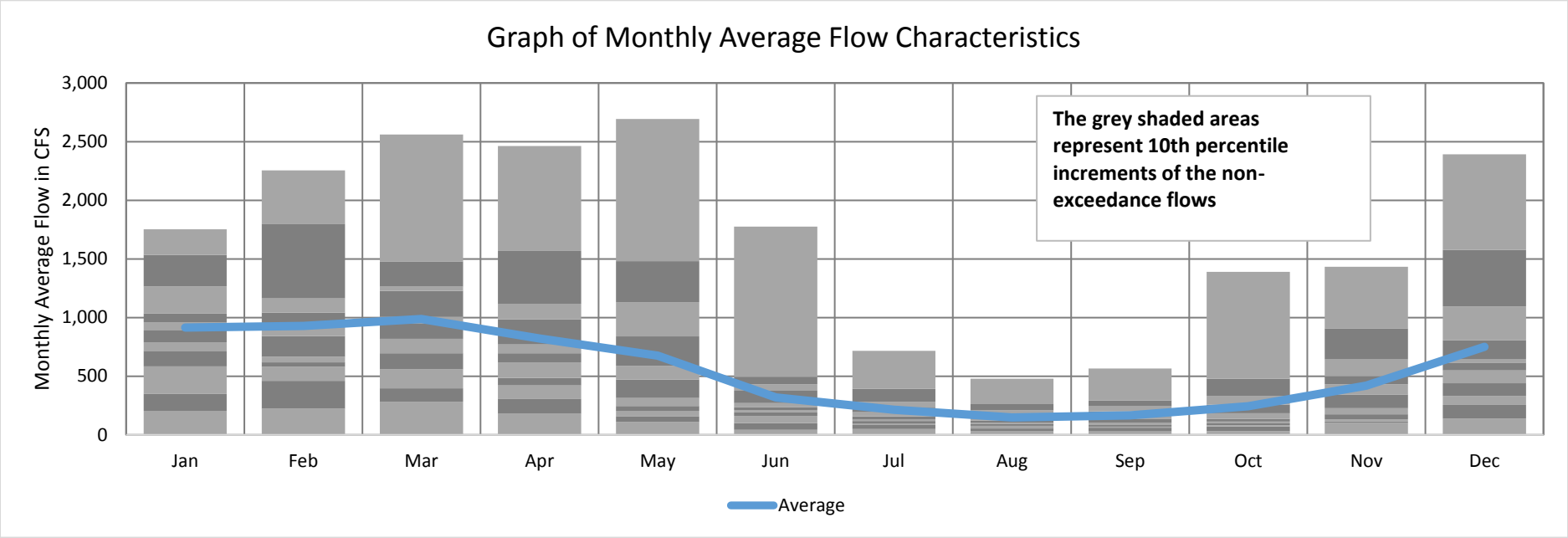
Site #: 02438000 Name: Buttahatchee River below Hamilton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	914	928	988	821	676	320	214	148	165	243	419	749
100%	1,752	2,254	2,561	2,463	2,694	1,776	717	479	566	1,389	1,434	2,393
98%	1,732	2,032	2,139	2,235	2,066	1,059	709	409	458	1,049	1,238	2,124
95%	1,630	1,909	1,967	1,696	1,751	625	598	309	346	651	1,049	1,922
90%	1,533	1,796	1,479	1,567	1,482	494	393	261	294	479	909	1,578
75%	1,168	1,075	1,254	1,010	891	412	249	175	215	313	541	1,007
50%	890	841	951	695	473	234	156	122	133	135	345	616
25%	621	602	623	464	210	180	104	85	74	92	145	368
10%	349	461	396	305	159	100	84	55	61	71	112	254
5%	266	375	379	272	126	94	61	47	50	56	106	165
2%	239	321	308	230	116	53	52	33	45	38	105	142
0%	204	223	282	180	108	41	49	33	29	31	101	139

Site #: 02438000 Name: Buttahatchee River below Hamilton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 277 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	914	928	988	821	676	320	214	148	165	243	419	749
100%	1,752	2,254	2,561	2,463	2,694	1,776	717	479	566	1,389	1,434	2,393
98%	1,732	2,032	2,139	2,235	2,066	1,059	709	409	458	1,049	1,238	2,124
95%	1,630	1,909	1,967	1,696	1,751	625	598	309	346	651	1,049	1,922
90%	1,533	1,796	1,479	1,567	1,482	494	393	261	294	479	909	1,578
75%	1,168	1,075	1,254	1,010	891	412	249	175	215	313	541	1,007
50%	890	841	951	695	473	234	156	122	133	135	345	616
25%	621	602	623	464	210	180	104	85	74	92	145	368
10%	349	461	396	305	159	100	84	55	61	71	112	254
5%	266	375	379	272	126	94	61	47	50	56	106	165
2%	239	321	308	230	116	53	52	33	45	38	105	142
0%	204	223	282	180	108	41	49	33	29	31	101	139

Monthly Flows (in CFS) for

02439400 - Buttahatchee River near Aberdeen, Miss. (represents streamflow for 03160103)

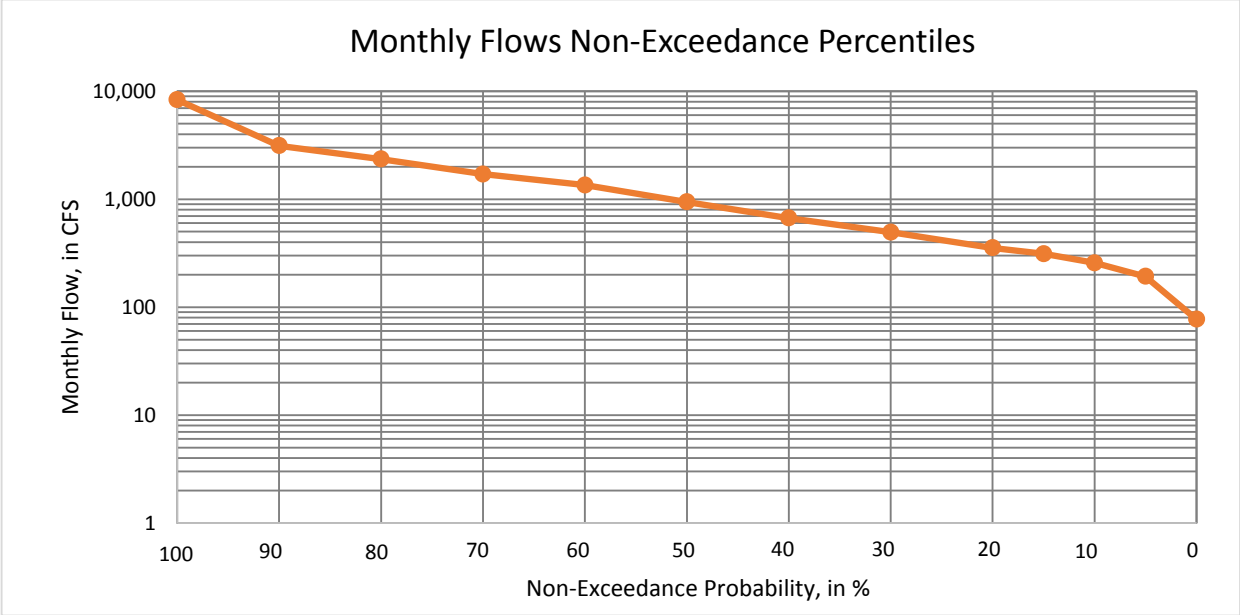
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,461	3,500	5,057	2,478	1,252	1,045	823	1,175	717	2,349	1,387	1,352	2,130
1976	2,126	2,373	2,747	1,752	1,116	833	460	281	552	339	472	1,019	1,166
1977	1,983	1,525	5,213	2,547	524	344	338	287	541	1,558	2,938	2,358	1,682
1978	1,933	960	1,988	739	2,665	1,060	310	238	226	227	303	758	955
1979	3,860	2,127	3,128	4,186	1,328	583	636	386	1,051	405	2,576	1,396	1,799
1980	2,272	1,575	6,815	3,931	2,350	637	391	257	345	776	1,219	833	1,788
1981	667	1,485	1,307	2,038	530	421	450	261	243	229	288	657	708
1982	3,913	1,997	1,767	3,077	813	493	515	757	208	258	501	3,058	1,446
1983	1,660	3,602	3,283	5,647	4,438	1,394	699	278	298	280	1,057	5,293	2,319
1984	2,355	1,443	2,017	2,694	3,655	495	341	266	156	1,149	2,408	1,486	1,541
1985	1,020	2,876	971	1,038	3,466	590	621	602	332	486	799	696	1,115
1986	519	1,347	1,353	461	730	1,192	240	190	193	367	2,219	1,828	881
1987	2,445	2,163	3,124	767	418	539	251	170	162	135	275	464	904
1988	952	1,153	704	1,162	317	137	164	117	499	860	1,808	1,105	743
1989	4,390	2,546	4,163	1,658	1,057	1,502	1,759	442	479	1,420	1,245	897	1,797
1990	3,591	5,070	3,135	1,129	2,126	1,093	340	202	194	220	335	4,906	1,848
1991	1,761	5,459	3,109	6,130	8,329	1,418	601	455	418	310	452	4,342	2,716
1992	909	1,334	1,520	861	315	385	329	392	385	257	833	1,317	733
1993	1,752	1,524	2,375	2,016	1,429	605	308	427	330	274	682	1,100	1,066
1994	2,050	4,763	3,439	1,677	589	726	1,880	561	425	758	1,088	1,593	1,610
1995	1,585	2,709	3,785	3,023	1,461	986	592	384	219	368	968	2,162	1,513
1996	3,369	1,890	1,965	2,081	682	510	444	456	710	509	1,404	2,943	1,412
1997	3,070	2,084	2,826	1,071	3,825	5,020	1,440	529	374	562	668	1,492	1,913
1998	4,336	2,561	3,211	1,399	612	434	656	680	218	221	376	1,659	1,362
1999	3,992	2,229	2,376	1,644	1,799	569	473	150	134	166	278	380	1,180
2000	741	615	917	3,608	350	263	163	98	82	77	490	794	679
2001	2,131	2,924	2,522	2,878	676	2,104	359	302	491	768	421	3,138	1,549
2002	2,624	1,496	2,099	2,065	3,532	408	502	340	542	878	2,037	2,356	1,577
2003	1,238	4,411	3,119	1,731	4,807	1,152	761	1,267	732	457	1,077	1,439	1,836
2004	1,596	4,599	2,942	816	509	1,118	949	561	570	614	3,266	4,742	1,839
2005	1,639	1,743	1,485	2,439	671	1,353	1,013	457	1,474	422	696	1,672	1,249
2006	2,733	2,776	1,415	1,227	1,031	342	155	167	254	565	1,731	760	1,085
2007	2,434	1,277	831	554	313	171	273	122	252	334	395	404	611
2008	600	1,930	1,486	1,160	1,456	455	155	229	256	189	334	3,480	974
2009	2,725	937	3,492	2,069	3,093	532	235	356	1,139	3,139	1,885	2,615	1,864
2010	2,663	2,802	1,698	1,481	2,873	902	344	331	184	181	355	598	1,193
2011	1,975	997	2,717	3,806	1,143	350	309	316	565	206	301	1,502	1,183
2012	1,970	1,440	1,556	798	658	325	234	243	496	678	309	1,362	838
2013	3,580	2,035	2,239	2,062	2,032	534	816	490	372	319	505	1,541	1,377
2014	1,563	2,600	1,146	2,387	795	918	413	248	148	571	819	2,480	1,163

Non-Exceedance Percentiles

02439400 - Buttahatchee River near Aberdeen, Miss. (represents streamflow for 03160103)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	519	615	704	461	313	137	155	98	82	77	275	380	611
5th %	663	959	913	730	317	258	163	121	147	164	287	461	706
10th %	892	1,137	1,129	795	411	340	227	165	161	188	303	651	742
15th %	1,010	1,325	1,346	854	522	349	239	187	191	218	330	749	875
20th %	1,498	1,421	1,471	1,064	578	403	268	223	205	225	351	787	944
30th %	1,654	1,516	1,655	1,208	674	482	323	254	238	269	443	1,076	1,106
40th %	1,955	1,831	2,005	1,652	806	533	343	280	281	328	503	1,358	1,182
Median	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489	1,370
60th %	2,387	2,287	2,779	2,067	1,440	769	485	385	421	495	1,003	1,619	1,524
70th %	2,682	2,633	3,121	2,451	2,060	1,003	607	446	497	584	1,227	2,220	1,632
80th %	3,411	2,886	3,225	2,907	2,917	1,125	711	498	554	769	1,746	2,681	1,807
90th %	3,921	4,430	3,823	3,819	3,672	1,396	955	610	719	1,176	2,238	3,566	1,869
Maximum	4,461	5,459	6,815	6,130	8,329	5,020	1,880	1,267	1,474	3,139	3,266	5,293	2,716
Average	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849	1,384

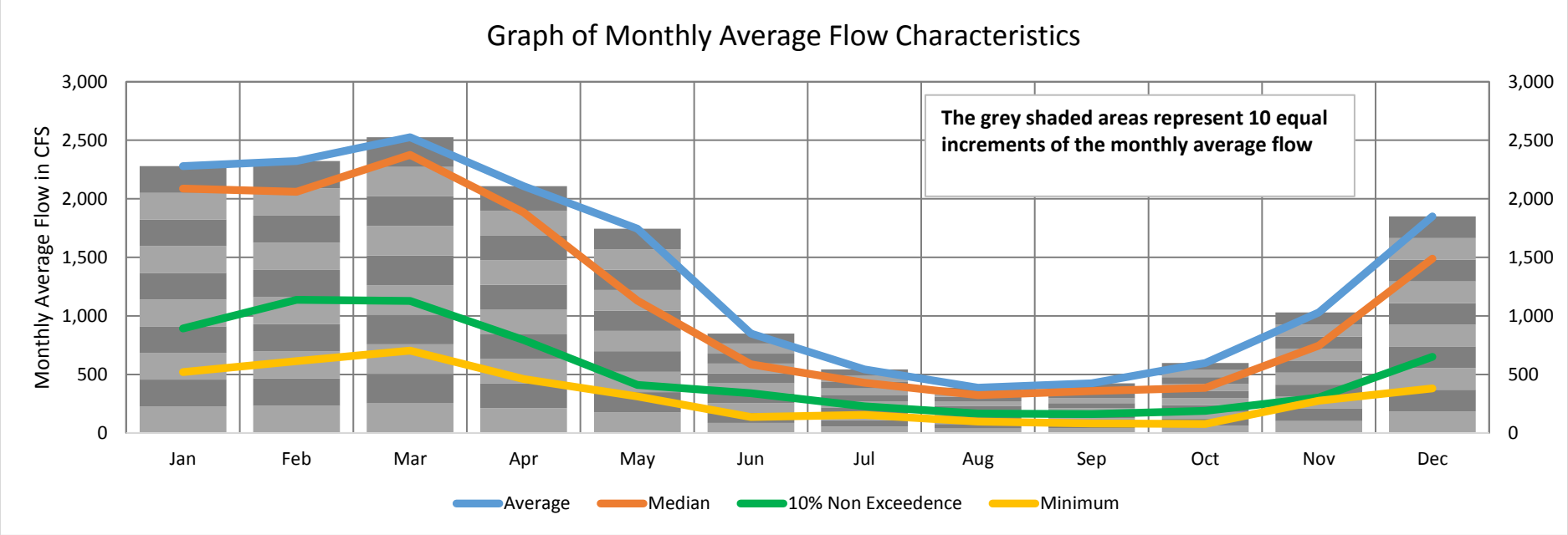
	Flows in CFS
Minimum	77.0
5th %	193
10th %	257
15th %	312
20th %	354
30th %	494
40th %	668
Median	943
60th %	1,349
70th %	1,708
80th %	2,351
90th %	3,129
Maximum	8,329
Average	1,388



Q10/Q50	0.27
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.10
Q5/DA	0.24
Q10/DA	0.32
Q15/DA	0.39
Q20/DA	0.44
Q30/DA	0.62
Q40/DA	0.84
Q50/DA	1.18
Q60/DA	1.69
Q70/DA	2.14
Q80/DA	2.95
Q90/DA	3.92
Qmax/DA	10.44

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

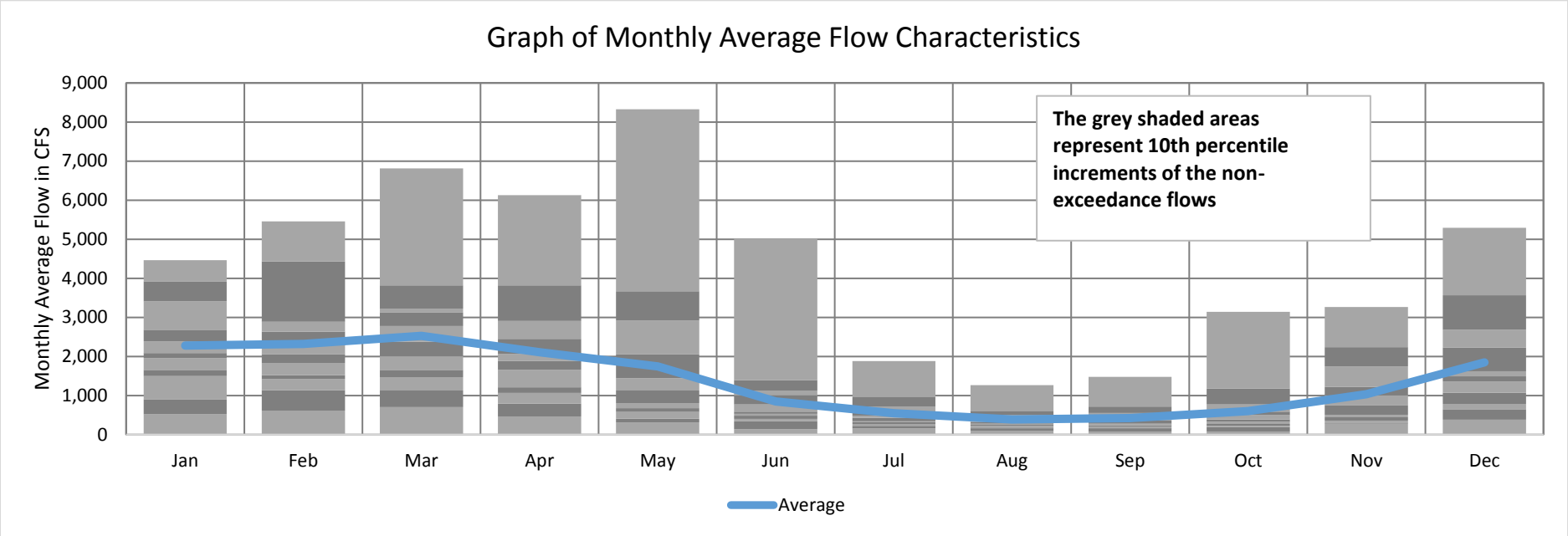
Site #: 02439400 Name: Buttahatchee River near Aberdeen, Miss. (represents streamflow for 03160103)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849
100%	4,461	5,459	6,815	6,130	8,329	5,020	1,880	1,267	1,474	3,139	3,266	5,293
98%	4,406	5,156	5,565	5,753	5,582	2,746	1,786	1,195	1,213	2,523	3,010	4,991
95%	4,339	4,778	5,065	4,259	4,456	1,532	1,456	778	1,055	1,598	2,594	4,750
90%	3,921	4,430	3,823	3,819	3,672	1,396	955	610	719	1,176	2,238	3,566
75%	2,817	2,783	3,130	2,584	2,429	1,068	641	456	541	698	1,391	2,389
50%	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489
25%	1,593	1,475	1,512	1,152	646	430	309	242	219	250	390	881
10%	892	1,137	1,129	795	411	340	227	165	161	188	303	651
5%	663	959	913	730	317	258	163	121	147	164	287	461
2%	582	866	803	533	314	163	155	113	122	122	278	398
0%	519	615	704	461	313	137	155	98	82	77	275	380

Site #: 02439400 Name: Buttahatchee River near Aberdeen, Miss. (represents streamflow for 03160103)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 798 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,280	2,322	2,526	2,107	1,744	848	543	387	424	597	1,030	1,849
100%	4,461	5,459	6,815	6,130	8,329	5,020	1,880	1,267	1,474	3,139	3,266	5,293
98%	4,406	5,156	5,565	5,753	5,582	2,746	1,786	1,195	1,213	2,523	3,010	4,991
95%	4,339	4,778	5,065	4,259	4,456	1,532	1,456	778	1,055	1,598	2,594	4,750
90%	3,921	4,430	3,823	3,819	3,672	1,396	955	610	719	1,176	2,238	3,566
75%	2,817	2,783	3,130	2,584	2,429	1,068	641	456	541	698	1,391	2,389
50%	2,088	2,060	2,376	1,884	1,130	586	428	323	358	386	747	1,489
25%	1,593	1,475	1,512	1,152	646	430	309	242	219	250	390	881
10%	892	1,137	1,129	795	411	340	227	165	161	188	303	651
5%	663	959	913	730	317	258	163	121	147	164	287	461
2%	582	866	803	533	314	163	155	113	122	122	278	398
0%	519	615	704	461	313	137	155	98	82	77	275	380

Monthly Flows (in CFS) for
02442500 - Luxapallila Creek at Millport, Ala.

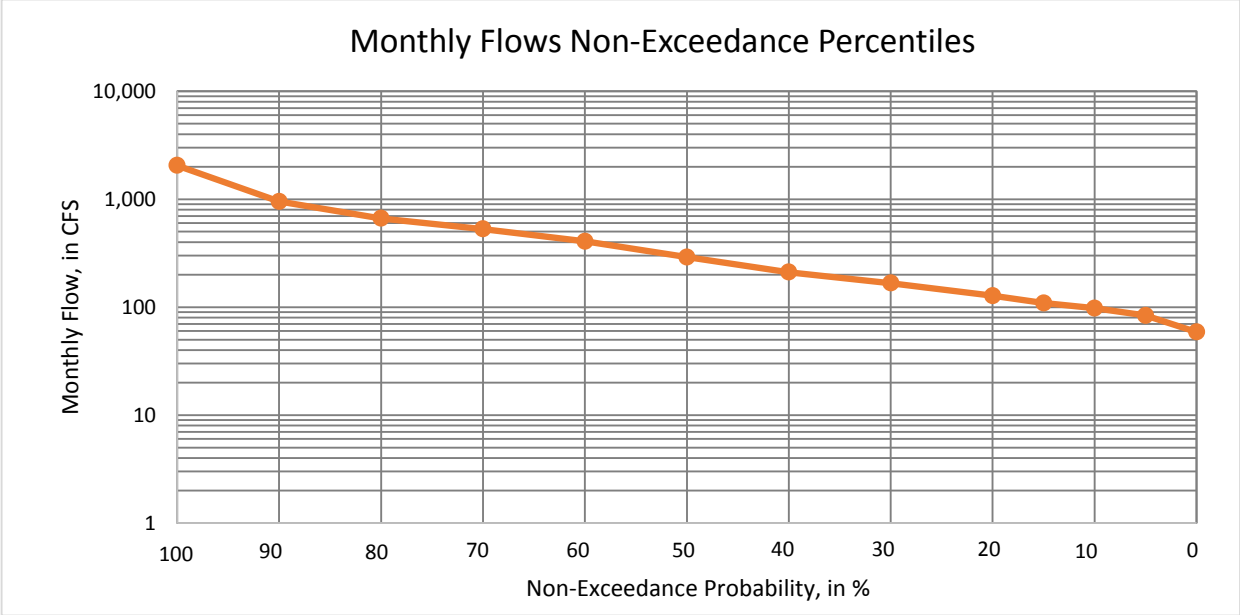
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,162	1,033	1,238	625	404	231	310	455	178	609	395	451	590
1976	687	697	1,015	509	765	263	181	119	184	129	186	475	434
1977	764	448	1,263	1,206	161	100	109	104	182	528	653	657	515
1978	573	334	586	225	819	325	107	94	80	79	113	272	302
1979	1,261	691	979	1,684	474	292	419	154	681	197	670	438	659
1980	686	545	1,916	1,544	752	209	134	99	99	173	365	247	564
1981	209	275	422	447	157	206	106	109	84	97	111	200	201
1982	1,022	612	392	788	178	157	187	171	81	112	300	894	407
1983	546	1,260	1,324	1,323	1,060	450	188	108	126	119	307	1,737	709
1984	633	575	762	1,117	747	161	136	127	84	205	463	342	445
1985	321	838	275	349	623	189	161	218	157	210	218	265	315
1986	195	285	473	156	254	156	80	92	76	107	304	410	216
1987	578	648	737	229	136	115	85	69	68	67	92	138	245
1988	297	385	205	290	97	63	69	61	103	173	410	238	198
1989	1,210	751	886	540	346	560	537	162	144	311	364	347	512
1990	1,184	1,475	951	373	417	300	143	85	82	94	128	1,276	538
1991	470	1,438	894	1,731	2,049	446	176	144	134	120	183	495	685
1992	310	486	422	287	111	152	178	206	165	96	436	570	283
1993	778	575	534	511	359	157	166	114	98	87	209	264	320
1994	475	1,048	1,033	655	182	256	666	176	147	222	274	537	469
1995	637	658	962	1,194	273	149	146	135	142	311	359	530	456
1996	970	642	664	1,280	250	181	519	187	198	169	399	538	498
1997	885	679	748	297	733	983	279	175	117	160	211	332	465
1998	1,195	695	858	561	189	149	242	244	100	90	144	442	409
1999	1,185	755	599	411	264	214	199	80	75	86	106	160	343
2000	257	218	416	1,057	108	91	68	62	59	65	145	156	224
2001	457	725	944	558	200	545	144	102	238	339	256	909	450
2002	676	537	626	360	624	196	205	119	268	412	767	713	459
2003	405	1,554	827	530	1,408	567	375	371	185	202	426	393	598
2004	436	1,515	762	278	226	502	358	231	206	145	396	1,026	500
2005	395	519	402	731	210	564	348	262	262	127	177	418	366
2006	710	1,043	587	246	255	101	86	79	97	341	565	320	365
2007	590	334	195	162	100	69	100	73	79	74	104	115	165
2008	148	514	496	270	424	99	65	90	99	111	95	1,181	299
2009	1,313	668	1,364	436	584	204	139	151	435	1,119	436	1,024	659
2010	690	659	810	490	637	217	124	131	85	87	258	243	368
2011	612	386	1,060	1,125	259	118	99	109	304	85	122	409	390
2012	633	538	550	266	167	103	112	122	140	212	129	463	286
2013	1,170	807	729	701	505	166	317	203	119	122	167	478	456
2014	391	760	439	938	332	283	144	88	84	111	171	679	365

Non-Exceedance Percentiles

02442500 - Luxapallila Creek at Millport, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	148	218	195	156	97	63	65	61	59	65	92	115	165
5th %	208	285	271	221	107	89	69	68	75	73	103	155	201
10th %	293	334	401	245	134	100	84	78	79	85	110	196	223
15th %	319	385	421	269	160	103	97	85	81	86	121	243	278
20th %	394	479	435	285	175	117	105	90	83	89	129	260	297
30th %	466	538	545	357	207	155	120	101	93	104	170	328	336
40th %	576	597	615	442	255	164	142	109	100	116	200	403	367
Median	633	658	742	520	303	200	153	121	122	128	257	440	421
60th %	687	693	817	587	409	215	179	139	143	170	305	476	456
70th %	768	752	909	748	528	269	201	164	169	203	374	537	478
80th %	1,050	877	986	1,119	656	349	312	190	187	240	413	685	520
90th %	1,186	1,278	1,240	1,284	771	547	379	232	263	348	473	1,024	604
Maximum	1,313	1,554	1,916	1,731	2,049	983	666	455	681	1,119	767	1,737	709
Average	678	715	759	662	446	257	205	147	156	203	290	519	418

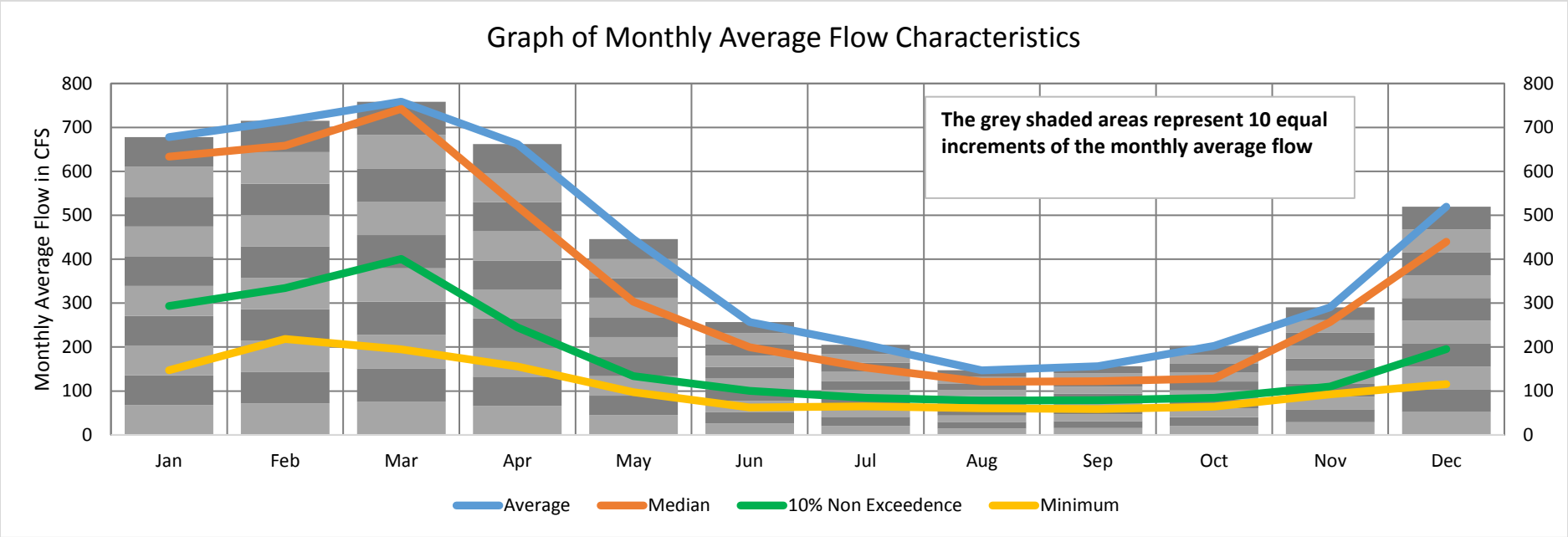
	Flows in CFS
Minimum	58.8
5th %	84
10th %	98
15th %	109
20th %	127
30th %	167
40th %	210
Median	291
60th %	407
70th %	528
80th %	665
90th %	952
Maximum	2,049
Average	420



Q10/Q50	0.34
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.24
Q5/DA	0.34
Q10/DA	0.40
Q15/DA	0.44
Q20/DA	0.52
Q30/DA	0.68
Q40/DA	0.85
Q50/DA	1.18
Q60/DA	1.65
Q70/DA	2.14
Q80/DA	2.69
Q90/DA	3.86
Qmax/DA	8.29

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

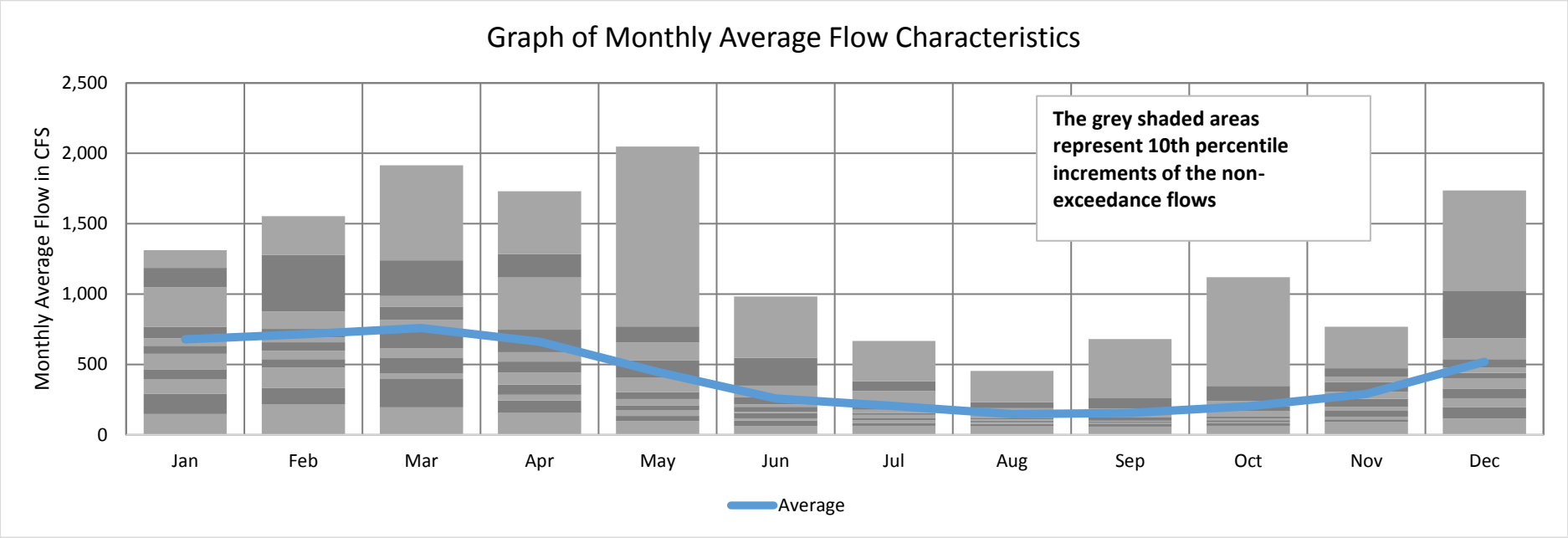
Site #: 02442500 Name: Luxapallila Creek at Millport, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	678	715	759	662	446	257	205	147	156	203	290	519
100%	1,313	1,554	1,916	1,731	2,049	983	666	455	681	1,119	767	1,737
98%	1,273	1,524	1,485	1,695	1,549	659	565	389	489	721	692	1,377
95%	1,212	1,477	1,326	1,551	1,077	564	520	267	310	532	654	1,186
90%	1,186	1,278	1,240	1,284	771	547	379	232	263	348	473	1,024
75%	906	772	954	968	623	294	251	175	183	210	397	592
50%	633	658	742	520	303	200	153	121	122	128	257	440
25%	429	518	490	295	187	149	108	94	84	95	145	271
10%	293	334	401	245	134	100	84	78	79	85	110	196
5%	208	285	271	221	107	89	69	68	75	73	103	155
2%	184	263	202	160	100	67	67	62	66	67	95	133
0%	148	218	195	156	97	63	65	61	59	65	92	115

Site #: 02442500 Name: Luxapallila Creek at Millport, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 247 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	678	715	759	662	446	257	205	147	156	203	290	519
100%	1,313	1,554	1,916	1,731	2,049	983	666	455	681	1,119	767	1,737
98%	1,273	1,524	1,485	1,695	1,549	659	565	389	489	721	692	1,377
95%	1,212	1,477	1,326	1,551	1,077	564	520	267	310	532	654	1,186
90%	1,186	1,278	1,240	1,284	771	547	379	232	263	348	473	1,024
75%	906	772	954	968	623	294	251	175	183	210	397	592
50%	633	658	742	520	303	200	153	121	122	128	257	440
25%	429	518	490	295	187	149	108	94	84	95	145	271
10%	293	334	401	245	134	100	84	78	79	85	110	196
5%	208	285	271	221	107	89	69	68	75	73	103	155
2%	184	263	202	160	100	67	67	62	66	67	95	133
0%	148	218	195	156	97	63	65	61	59	65	92	115

Monthly Flows (in CFS) for

02443000 - Luxapallila Creek at Steens, Miss. (represents streamflow for 03160105)

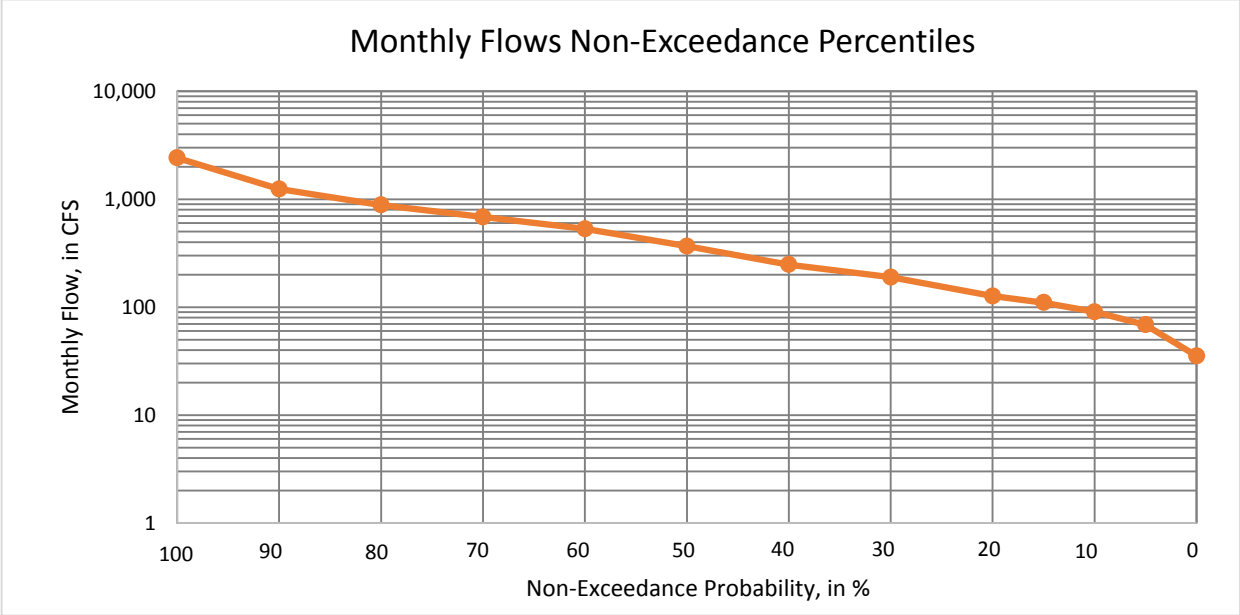
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,413	1,420	1,726	748	564	306	468	580	231	968	406	541	780
1976	883	907	1,431	636	927	324	224	126	193	142	241	605	553
1977	1,035	555	1,600	1,401	153	98	109	107	220	688	856	861	641
1978	749	423	766	270	1,073	410	104	86	66	64	112	337	373
1979	1,617	906	1,275	2,080	615	364	540	170	893	231	878	566	842
1980	900	711	2,299	1,934	986	248	142	92	93	197	465	347	701
1981	259	536	631	890	175	225	79	87	72	92	114	239	281
1982	1,511	878	621	1,186	254	198	174	208	64	101	379	1,373	578
1983	901	1,643	1,551	1,759	1,606	498	253	90	121	122	360	2,165	919
1984	955	772	940	1,314	991	165	124	130	68	238	524	590	566
1985	422	1,081	410	421	654	244	145	182	116	223	317	361	377
1986	243	341	581	167	204	195	71	74	66	104	381	527	246
1987	756	849	966	277	146	115	72	49	48	47	83	147	294
1988	372	493	242	361	90	41	50	38	99	198	528	290	231
1989	1,557	985	1,158	705	440	732	700	182	156	392	464	441	658
1990	1,526	1,859	1,241	478	538	376	156	73	69	85	133	1,634	676
1991	610	1,819	1,169	2,126	2,412	577	202	157	142	123	212	643	842
1992	389	632	545	357	110	168	204	244	187	88	564	745	351
1993	1,020	752	696	665	457	175	188	114	91	76	248	325	399
1994	617	1,361	1,343	858	211	315	873	202	161	266	339	700	600
1995	835	863	1,254	1,538	339	164	159	144	153	391	458	691	580
1996	1,264	841	871	1,639	306	210	676	218	233	192	513	702	637
1997	1,157	890	980	372	960	1,280	346	200	118	179	251	420	595
1998	1,539	912	1,123	733	220	163	294	297	94	80	157	572	515
1999	1,527	989	784	529	326	255	235	65	59	74	103	179	425
2000	315	262	537	1,372	105	81	48	40	35	43	159	173	263
2001	592	951	1,232	729	236	711	156	96	289	362	187	987	541
2002	933	753	733	534	637	127	233	102	212	411	887	886	537
2003	496	1,576	1,187	740	1,272	663	475	533	214	256	523	648	710
2004	682	1,560	948	329	202	645	498	214	242	242	657	1,439	633
2005	570	804	629	1,135	353	718	465	219	370	157	201	524	509
2006	927	1,402	867	326	318	82	61	61	84	334	600	300	441
2007	870	525	299	186	107	57	118	55	63	77	123	140	217
2008	205	756	632	423	492	120	50	127	120	118	134	1,198	363
2009	1,561	590	1,749	708	777	342	116	186	621	1,327	725	1,249	834
2010	856	905	965	606	844	265	105	121	77	68	215	404	451
2011	675	499	1,256	1,781	440	103	110	100	288	78	126	527	498
2012	830	702	718	328	189	99	111	126	150	253	135	600	353
2013	1,509	1,058	956	919	657	188	400	240	121	126	189	620	580
2014	501	996	567	1,225	421	352	157	76	71	110	195	890	459

Non-Exceedance Percentiles

02443000 - Luxapallila Creek at Steens, Miss. (represents streamflow for 03160105)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	205	262	242	167	90	41	48	38	35	43	83	140	217
5th %	258	419	404	266	107	79	50	49	58	64	112	172	245
10th %	366	499	544	321	142	96	70	60	64	74	122	233	279
15th %	417	534	579	329	172	102	78	72	66	76	132	299	342
20th %	500	583	628	360	200	119	105	76	69	79	135	335	361
30th %	615	740	712	461	231	165	115	92	81	98	188	415	417
40th %	753	791	833	624	323	192	144	105	97	120	213	527	482
Median	863	870	952	718	430	235	158	126	121	150	284	581	539
60th %	911	906	1,037	792	510	281	203	149	152	198	380	629	579
70th %	1,024	986	1,201	1,150	642	345	240	183	189	239	465	701	610
80th %	1,432	1,137	1,260	1,378	861	428	413	209	222	280	525	887	662
90th %	1,528	1,562	1,556	1,762	999	667	503	240	288	394	664	1,261	785
Maximum	1,617	1,859	2,299	2,126	2,412	1,280	873	580	893	1,327	887	2,165	919
Average	889	919	987	870	545	310	242	155	169	233	354	665	526

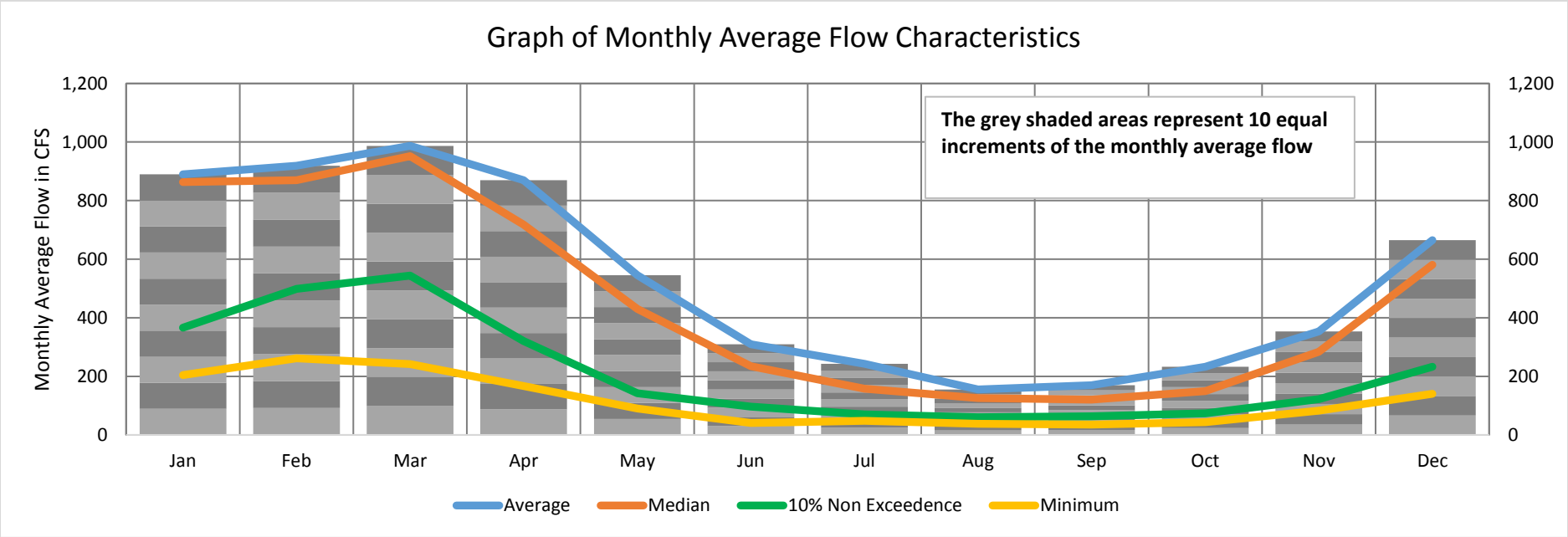
	Flows in CFS
Minimum	35.3
5th %	69
10th %	90
15th %	110
20th %	127
30th %	189
40th %	248
Median	367
60th %	531
70th %	684
80th %	884
90th %	1,242
Maximum	2,412
Average	528



Q10/Q50	0.25
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.11
Q5/DA	0.22
Q10/DA	0.29
Q15/DA	0.36
Q20/DA	0.41
Q30/DA	0.61
Q40/DA	0.80
Q50/DA	1.19
Q60/DA	1.72
Q70/DA	2.21
Q80/DA	2.86
Q90/DA	4.02
Qmax/DA	7.80

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

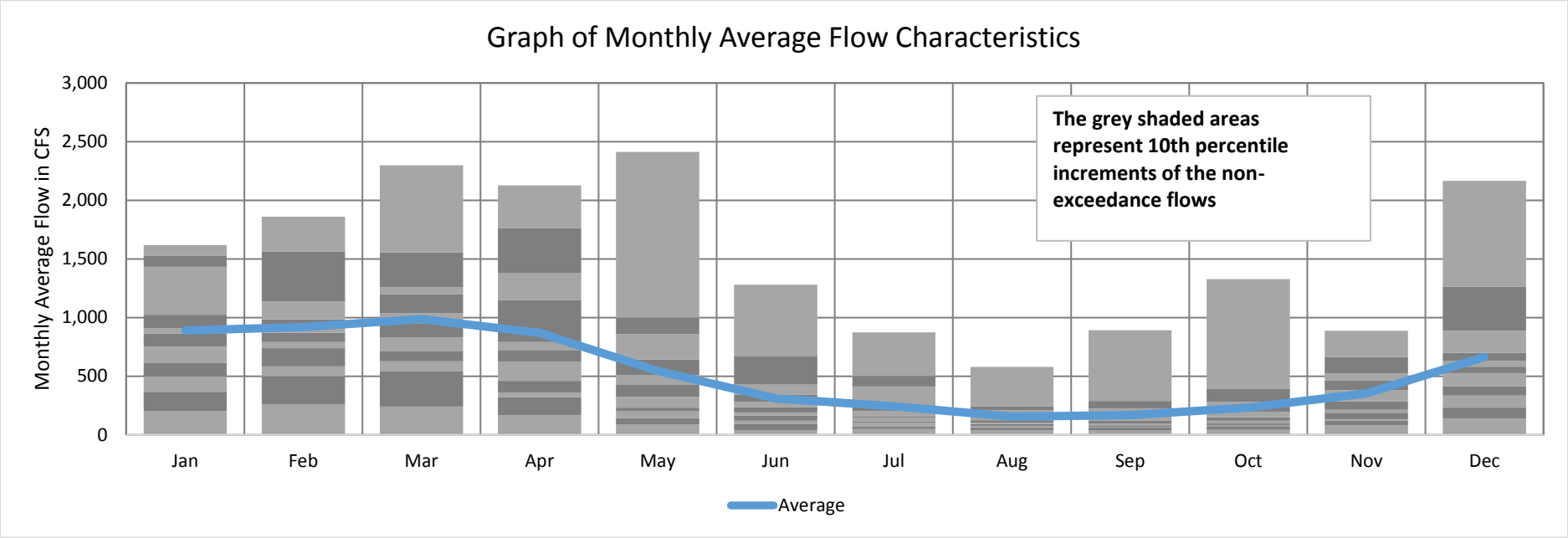
Site #: 02443000 Name: Luxapallila Creek at Steens, Miss. (represents streamflow for 03160105)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	889	919	987	870	545	310	242	155	169	233	354	665
100%	1,617	1,859	2,299	2,126	2,412	1,280	873	580	893	1,327	887	2,165
98%	1,573	1,828	1,870	2,090	1,783	852	738	543	681	1,047	880	1,751
95%	1,557	1,652	1,727	1,941	1,288	719	677	309	383	702	857	1,449
90%	1,528	1,562	1,556	1,762	999	667	503	240	288	394	664	1,261
75%	1,184	1,011	1,244	1,247	687	367	307	201	212	254	516	774
50%	863	870	952	718	430	235	158	126	121	150	284	581
25%	586	685	632	409	209	154	110	87	72	87	158	357
10%	366	499	544	321	142	96	70	60	64	74	122	233
5%	258	419	404	266	107	79	50	49	58	64	112	172
2%	235	323	286	182	102	53	50	40	45	47	98	146
0%	205	262	242	167	90	41	48	38	35	43	83	140

Site #: 02443000 Name: Luxapallila Creek at Steens, Miss. (represents streamflow for 03160105)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 309 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	889	919	987	870	545	310	242	155	169	233	354	665
100%	1,617	1,859	2,299	2,126	2,412	1,280	873	580	893	1,327	887	2,165
98%	1,573	1,828	1,870	2,090	1,783	852	738	543	681	1,047	880	1,751
95%	1,557	1,652	1,727	1,941	1,288	719	677	309	383	702	857	1,449
90%	1,528	1,562	1,556	1,762	999	667	503	240	288	394	664	1,261
75%	1,184	1,011	1,244	1,247	687	367	307	201	212	254	516	774
50%	863	870	952	718	430	235	158	126	121	150	284	581
25%	586	685	632	409	209	154	110	87	72	87	158	357
10%	366	499	544	321	142	96	70	60	64	74	122	233
5%	258	419	404	266	107	79	50	49	58	64	112	172
2%	235	323	286	182	102	53	50	40	45	47	98	146
0%	205	262	242	167	90	41	48	38	35	43	83	140

Monthly Flows (in CFS) for
02443500 - Luxapallila Creek near Columbus, Miss.

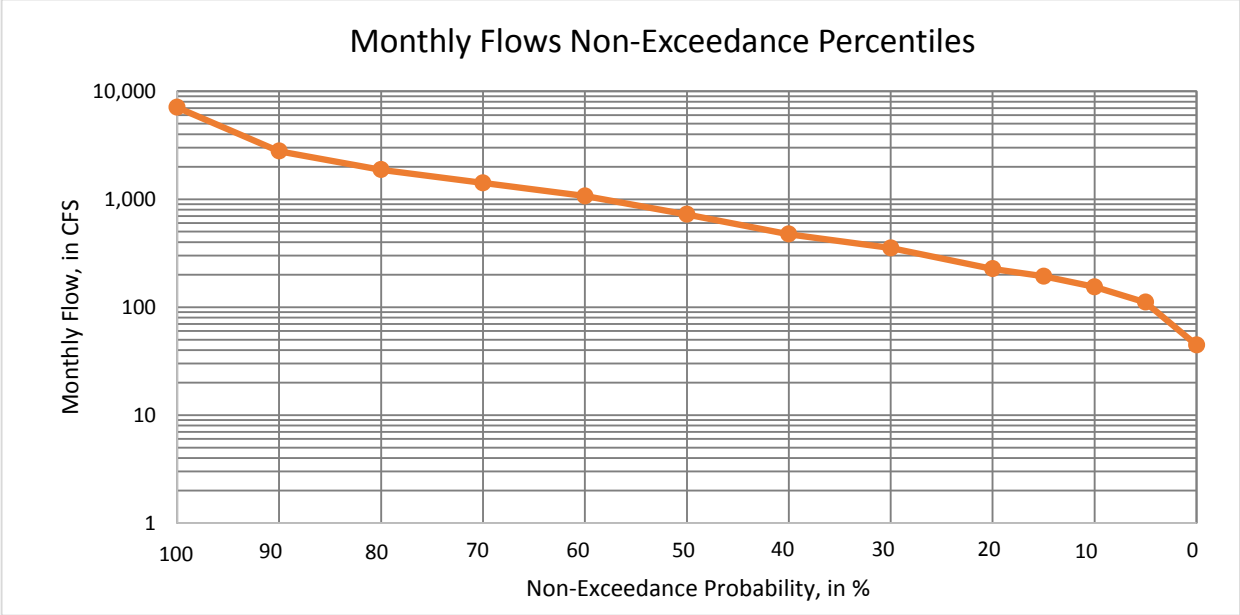
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,503	3,057	3,772	1,725	1,048	537	770	1,201	384	1,675	1,022	1,190	1,654
1976	1,922	1,952	2,996	1,367	2,170	632	393	216	402	245	407	1,264	1,162
1977	2,166	1,183	3,862	3,659	335	162	187	173	397	1,424	1,815	1,825	1,434
1978	1,564	841	1,603	519	2,345	813	181	145	105	102	197	659	759
1979	3,857	1,933	2,872	5,479	1,260	716	1,093	315	1,901	439	1,867	1,150	1,900
1980	1,918	1,477	6,465	4,917	2,128	473	258	158	160	369	931	680	1,663
1981	496	1,085	1,295	1,894	325	427	130	148	118	158	201	455	555
1982	3,535	1,866	1,273	2,634	486	372	323	392	101	175	748	3,139	1,252
1983	1,920	3,937	3,655	4,310	3,822	1,002	484	153	216	217	707	5,840	2,181
1984	2,051	1,617	2,016	2,976	2,140	303	220	233	110	453	1,059	1,203	1,196
1985	839	2,365	812	837	1,346	465	264	338	206	423	617	709	758
1986	463	666	1,185	308	383	364	116	121	105	181	752	1,066	475
1987	1,581	1,797	2,079	533	265	204	118	72	69	68	139	268	594
1988	732	991	461	709	154	56	74	50	170	371	1,067	560	445
1989	3,672	2,125	2,562	1,463	877	1,524	1,452	337	286	774	929	879	1,405
1990	3,580	4,650	2,781	958	1,089	741	285	120	111	143	240	3,909	1,536
1991	1,247	4,512	2,591	5,671	7,073	1,175	378	287	257	219	399	1,323	2,077
1992	768	1,297	1,104	701	193	310	383	465	349	149	1,146	1,554	698
1993	2,211	1,571	1,442	1,372	914	324	352	201	155	125	474	633	811
1994	1,265	3,107	3,058	1,819	397	612	1,855	379	296	511	663	1,452	1,274
1995	1,764	1,829	2,815	3,617	662	302	292	261	280	773	916	1,431	1,240
1996	2,842	1,778	1,849	3,924	594	395	1,397	411	442	358	1,035	1,455	1,369
1997	2,560	1,896	2,113	731	2,065	2,886	678	375	209	333	480	834	1,260
1998	3,618	1,947	2,471	1,527	417	300	569	576	160	133	287	1,164	1,096
1999	3,583	2,136	1,644	1,071	636	489	446	104	91	122	179	332	897
2000	613	501	1,086	3,138	184	134	70	55	45	61	291	320	538
2001	1,208	2,042	2,757	1,517	448	1,477	286	166	557	711	348	2,129	1,132
2002	1,999	1,572	1,526	1,080	1,309	227	443	176	399	814	1,887	1,886	1,108
2003	998	3,732	2,639	1,544	2,862	1,366	953	1,078	403	489	1,057	1,335	1,525
2004	1,411	3,683	2,035	641	380	1,327	1,003	403	461	462	1,355	3,327	1,360
2005	1,159	1,690	1,291	2,502	693	1,492	930	413	728	288	377	1,058	1,044
2006	1,983	3,222	1,839	635	619	138	95	95	140	653	1,226	582	921
2007	1,848	1,061	579	347	188	87	210	84	100	126	219	253	423
2008	385	1,581	1,298	840	988	214	73	227	214	208	241	2,667	742
2009	3,685	1,204	4,278	1,469	1,627	668	205	347	1,273	3,014	1,509	2,800	1,852
2010	1,814	1,931	2,078	1,239	1,786	509	183	215	127	109	405	800	929
2011	1,395	1,005	2,820	4,384	876	179	193	173	557	130	224	1,064	1,081
2012	1,752	1,457	1,493	640	353	171	196	225	274	484	244	1,227	708
2013	3,530	2,306	2,054	1,964	1,353	350	792	456	215	225	353	1,271	1,236
2014	1,009	2,152	1,153	2,737	836	691	288	126	115	193	365	1,894	953

Non-Exceedance Percentiles

02443500 - Luxapallila Creek near Columbus, Miss.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	385	501	461	308	154	56	70	50	45	61	139	253	423
5th %	494	833	800	511	188	132	74	71	90	100	196	318	474
10th %	720	1,004	1,102	625	258	160	114	94	101	120	217	443	554
15th %	828	1,081	1,180	641	333	177	129	117	105	126	238	579	682
20th %	1,007	1,200	1,288	708	374	212	183	125	111	132	243	654	735
30th %	1,260	1,543	1,478	923	438	303	203	156	136	170	351	824	871
40th %	1,574	1,661	1,761	1,316	629	359	262	175	166	214	403	1,065	1,008
Median	1,831	1,848	2,044	1,493	856	446	290	220	214	266	548	1,196	1,120
60th %	1,946	1,938	2,256	1,763	1,012	520	380	271	277	370	750	1,292	1,238
70th %	2,180	2,129	2,674	2,542	1,320	675	457	340	359	456	958	1,453	1,300
80th %	3,508	2,504	2,830	3,234	1,842	851	774	394	402	540	1,061	1,888	1,452
90th %	3,586	3,688	3,667	4,318	2,187	1,378	1,012	457	557	778	1,370	2,834	1,682
Maximum	3,857	4,650	6,465	5,671	7,073	2,886	1,855	1,201	1,901	3,014	1,887	5,840	2,181
Average	1,961	2,019	2,193	1,985	1,191	615	465	287	317	448	709	1,440	1,131

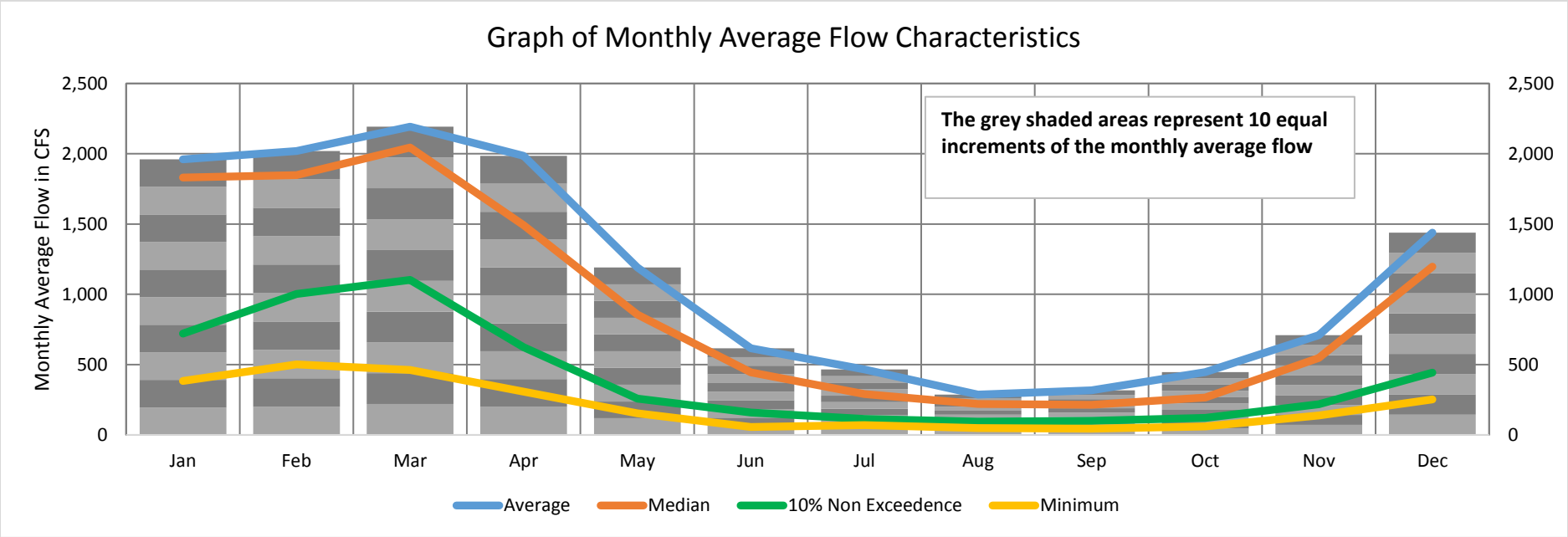
	Flows in CFS
Minimum	44.5
5th %	111
10th %	154
15th %	193
20th %	226
30th %	353
40th %	474
Median	722
60th %	1,069
70th %	1,415
80th %	1,871
90th %	2,783
Maximum	7,073
Average	1,136



Q10/Q50	0.21
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.06
Q5/DA	0.15
Q10/DA	0.22
Q15/DA	0.27
Q20/DA	0.32
Q30/DA	0.49
Q40/DA	0.66
Q50/DA	1.01
Q60/DA	1.49
Q70/DA	1.98
Q80/DA	2.62
Q90/DA	3.89
Qmax/DA	9.89

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

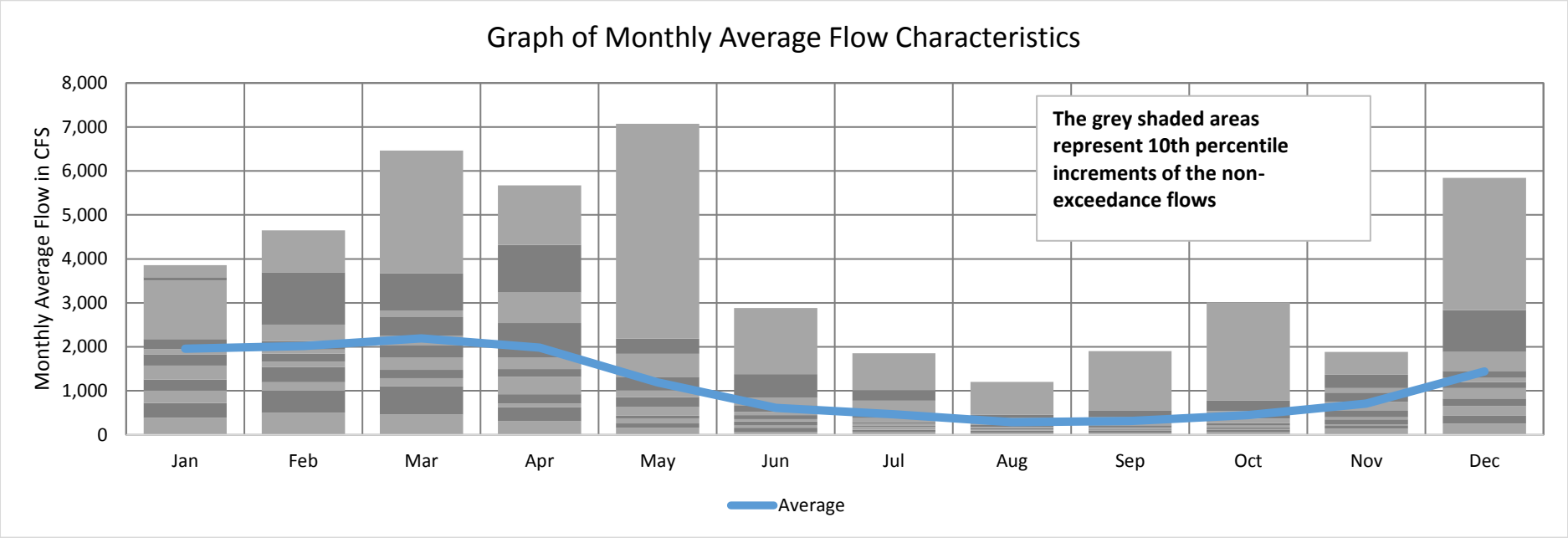
Site #: 02443500 Name: Luxapallila Creek near Columbus, Miss.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,961	2,019	2,193	1,985	1,191	615	465	287	317	448	709	1,440
100%	3,857	4,650	6,465	5,671	7,073	2,886	1,855	1,201	1,901	3,014	1,887	5,840
98%	3,723	4,542	4,759	5,521	4,537	1,823	1,541	1,105	1,412	1,970	1,872	4,334
95%	3,673	3,966	3,882	4,945	2,910	1,494	1,399	601	755	1,437	1,817	3,356
90%	3,586	3,688	3,667	4,318	2,187	1,378	1,012	457	557	778	1,370	2,834
75%	2,630	2,191	2,789	2,797	1,422	722	596	376	398	486	1,041	1,622
50%	1,831	1,848	2,044	1,493	856	446	290	220	214	266	548	1,196
25%	1,196	1,417	1,298	810	393	282	192	147	117	147	290	701
10%	720	1,004	1,102	625	258	160	114	94	101	120	217	443
5%	494	833	800	511	188	132	74	71	90	100	196	318
2%	446	630	553	338	177	80	73	53	64	67	170	265
0%	385	501	461	308	154	56	70	50	45	61	139	253

Site #: 02443500 Name: Luxapallila Creek near Columbus, Miss.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 715 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,961	2,019	2,193	1,985	1,191	615	465	287	317	448	709	1,440
100%	3,857	4,650	6,465	5,671	7,073	2,886	1,855	1,201	1,901	3,014	1,887	5,840
98%	3,723	4,542	4,759	5,521	4,537	1,823	1,541	1,105	1,412	1,970	1,872	4,334
95%	3,673	3,966	3,882	4,945	2,910	1,494	1,399	601	755	1,437	1,817	3,356
90%	3,586	3,688	3,667	4,318	2,187	1,378	1,012	457	557	778	1,370	2,834
75%	2,630	2,191	2,789	2,797	1,422	722	596	376	398	486	1,041	1,622
50%	1,831	1,848	2,044	1,493	856	446	290	220	214	266	548	1,196
25%	1,196	1,417	1,298	810	393	282	192	147	117	147	290	701
10%	720	1,004	1,102	625	258	160	114	94	101	120	217	443
5%	494	833	800	511	188	132	74	71	90	100	196	318
2%	446	630	553	338	177	80	73	53	64	67	170	265
0%	385	501	461	308	154	56	70	50	45	61	139	253

Monthly Flows (in CFS) for

02444000 - Coal Fire Creek near Pickensville, Ala.

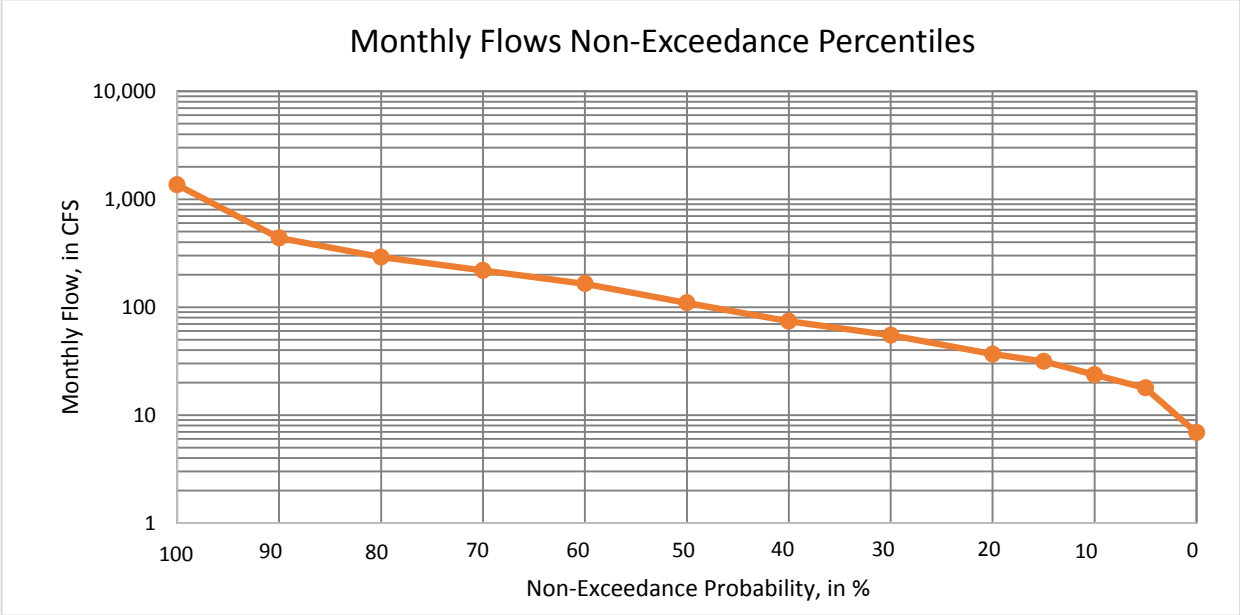
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	537	524	478	249	136	83	74	152	58	236	95	161	231
1976	285	326	681	290	396	87	52	38	58	54	73	205	212
1977	362	190	619	766	64	33	37	43	84	133	246	226	233
1978	218	141	298	109	507	107	31	18	19	16	30	84	132
1979	689	275	463	1,358	130	67	87	37	334	64	225	171	324
1980	320	265	906	671	417	80	38	24	35	57	145	106	255
1981	77	169	202	295	50	66	20	23	18	24	31	71	86
1982	552	291	198	411	76	58	50	61	16	27	116	490	195
1983	299	615	571	674	597	156	75	24	33	34	110	914	341
1984	320	252	314	465	334	47	34	36	17	70	165	187	186
1985	130	369	126	130	210	72	41	52	32	66	96	110	118
1986	72	104	184	48	59	57	18	19	16	28	117	166	74
1987	246	280	324	83	41	32	18	11	11	11	22	42	92
1988	114	154	72	110	24	9	11	8	26	58	166	87	69
1989	574	332	400	228	136	237	226	52	44	120	145	137	219
1990	559	727	434	149	170	115	44	19	17	22	37	611	240
1991	194	705	405	887	1,107	183	59	45	40	34	62	206	325
1992	120	202	172	109	30	48	60	72	54	23	178	242	109
1993	345	245	225	214	142	50	55	31	24	19	74	98	126
1994	197	485	478	284	62	95	289	59	46	79	103	226	199
1995	275	285	440	565	103	47	45	40	43	120	142	223	193
1996	444	277	288	613	92	61	218	64	69	56	161	227	214
1997	400	296	330	114	322	451	105	58	32	52	75	130	196
1998	565	304	386	238	65	47	88	89	25	21	45	181	171
1999	560	333	256	167	99	76	69	16	14	19	28	52	140
2000	95	78	169	490	28	21	11	8	7	9	45	50	84
2001	188	319	431	236	70	230	44	26	87	111	54	332	176
2002	312	245	238	168	204	35	69	27	62	127	294	294	173
2003	155	583	412	241	447	213	148	168	63	76	165	208	238
2004	220	576	317	100	59	207	156	63	72	72	211	520	212
2005	181	264	201	391	108	233	145	64	113	45	58	165	163
2006	309	503	287	99	96	21	15	15	22	101	191	90	144
2007	288	165	90	54	29	13	33	13	15	20	34	39	66
2008	60	246	202	131	154	33	11	35	33	32	37	416	116
2009	576	188	669	229	254	104	32	54	198	471	235	437	289
2010	283	301	324	193	278	79	28	33	20	17	63	124	145
2011	217	156	440	685	136	28	30	27	87	20	35	166	169
2012	273	227	233	100	55	27	30	35	43	75	38	191	110
2013	552	360	320	306	211	54	123	71	33	35	55	198	193
2014	157	336	180	427	130	107	45	19	18	30	57	295	149

Non-Exceedance Percentiles

02444000 - Coal Fire Creek near Pickensville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	60	78	72	48	24	9	11	8	7	9	22	39	66
5th %	77	140	124	81	29	20	11	11	14	16	30	49	74
10th %	112	156	172	99	40	26	18	15	16	19	34	69	86
15th %	129	168	184	107	54	31	20	18	17	20	37	87	106
20th %	157	189	201	110	59	33	30	19	18	20	38	97	114
30th %	196	245	230	144	68	47	32	24	21	26	55	128	138
40th %	236	265	288	205	98	56	40	30	30	33	62	165	157
Median	284	283	319	237	130	67	45	36	33	48	85	184	175
60th %	310	302	352	286	139	80	56	42	43	57	112	205	194
70th %	350	332	418	397	206	98	71	53	55	71	145	226	212
80th %	540	392	445	505	287	123	92	61	64	84	165	294	231
90th %	560	576	576	675	420	215	149	71	87	121	212	443	259
Maximum	689	727	906	1,358	1,107	451	289	168	334	471	294	914	341
Average	308	317	344	327	191	94	69	44	51	67	106	222	178

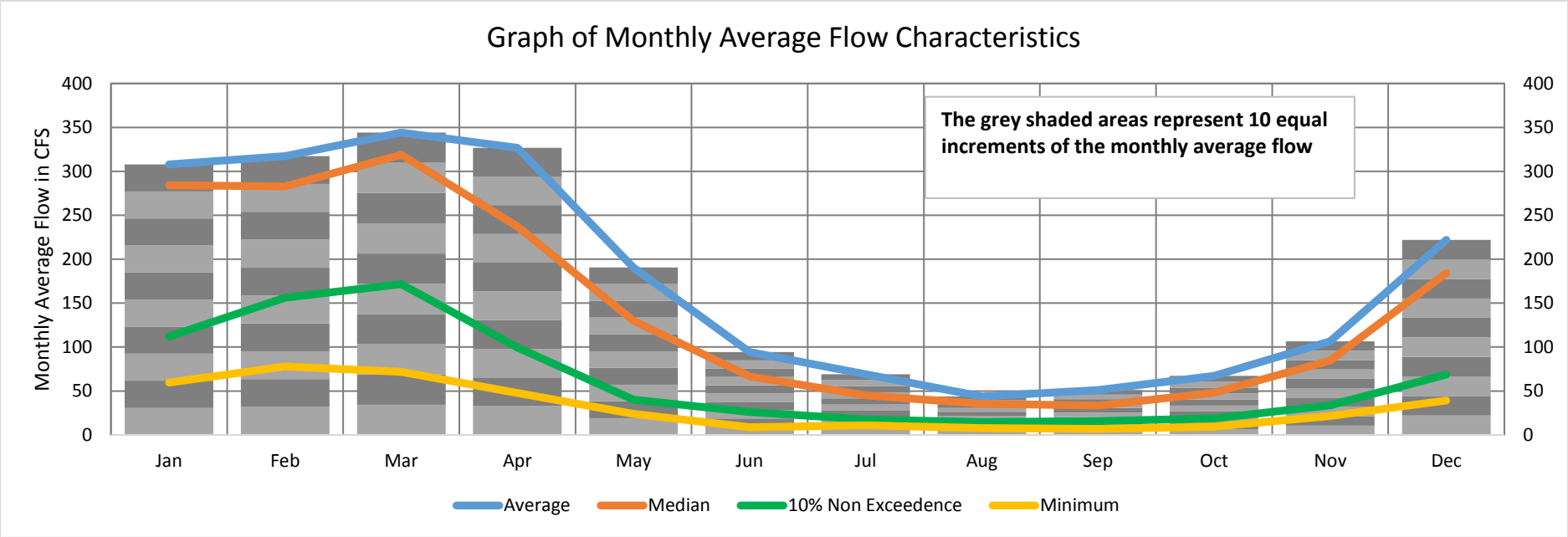
	Flows in CFS
Minimum	6.9
5th %	18
10th %	24
15th %	31
20th %	37
30th %	55
40th %	74
Median	109
60th %	165
70th %	219
80th %	290
90th %	437
Maximum	1,358
Average	178



Q10/Q50	0.22
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.05
Q5/DA	0.14
Q10/DA	0.19
Q15/DA	0.25
Q20/DA	0.29
Q30/DA	0.44
Q40/DA	0.59
Q50/DA	0.87
Q60/DA	1.31
Q70/DA	1.73
Q80/DA	2.30
Q90/DA	3.47
Qmax/DA	10.78

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

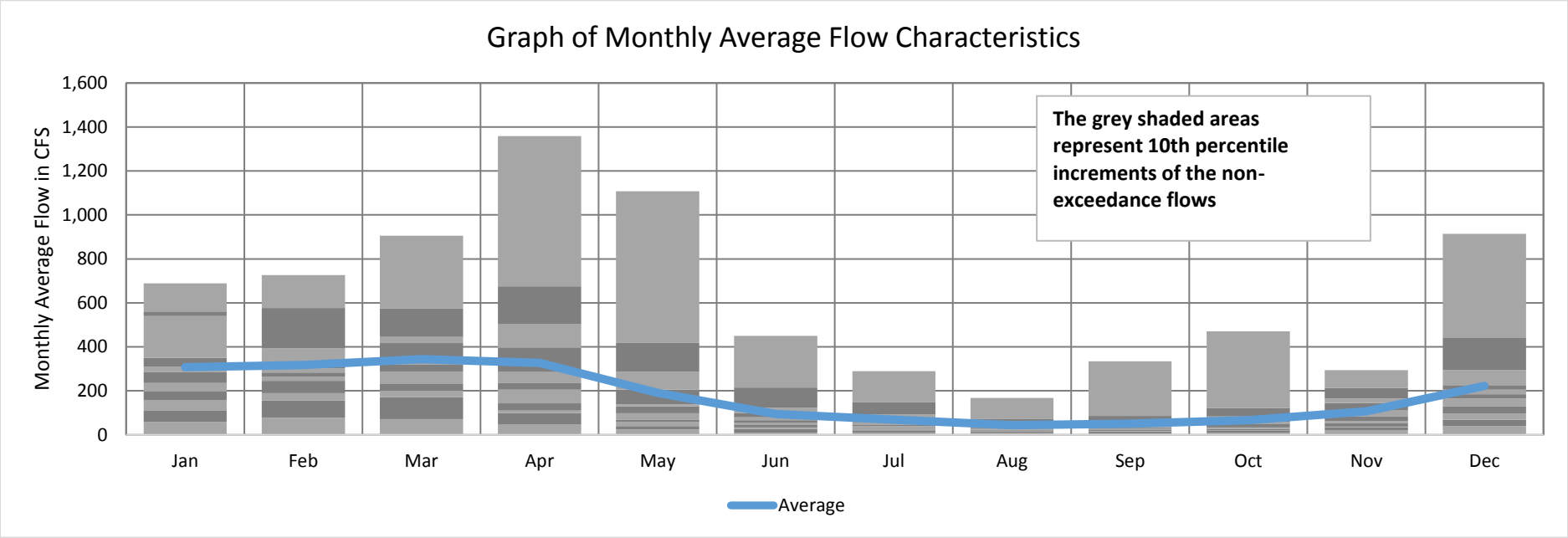
Site #: 02444000 Name: Coal Fire Creek near Pickensville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	308	317	344	327	191	94	69	44	51	67	106	222
100%	689	727	906	1,358	1,107	451	289	168	334	471	294	914
98%	601	710	731	991	710	284	240	156	228	288	257	678
95%	574	620	669	772	511	233	218	93	117	139	236	524
90%	560	576	576	675	420	215	149	71	87	121	212	443
75%	411	342	436	437	222	107	78	58	59	75	162	231
50%	284	283	319	237	130	67	45	36	33	48	85	184
25%	186	221	202	126	64	44	31	22	19	23	45	109
10%	112	156	172	99	40	26	18	15	16	19	34	69
5%	77	140	124	81	29	20	11	11	14	16	30	49
2%	69	98	86	52	27	12	11	8.3	9.8	10	26	41
0%	60	78	72	48	24	8.6	11	7.7	6.9	9.4	22	39

Site #: 02444000 Name: Coal Fire Creek near Pickensville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 126 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	308	317	344	327	191	94	69	44	51	67	106	222
100%	689	727	906	1,358	1,107	451	289	168	334	471	294	914
98%	601	710	731	991	710	284	240	156	228	288	257	678
95%	574	620	669	772	511	233	218	93	117	139	236	524
90%	560	576	576	675	420	215	149	71	87	121	212	443
75%	411	342	436	437	222	107	78	58	59	75	162	231
50%	284	283	319	237	130	67	45	36	33	48	85	184
25%	186	221	202	126	64	44	31	22	19	23	45	109
10%	112	156	172	99	40	26	18	15	16	19	34	69
5%	77	140	124	81	29	20	11	11	14	16	30	49
2%	69	98	86	52	27	12	11	8.3	9.8	10	26	41
0%	60	78	72	48	24	8.6	11	7.7	6.9	9.4	22	39

Monthly Flows (in CFS) for

02444160 - Tombigbee River at Bevill Lock and Dam near Pickensville, Ala.

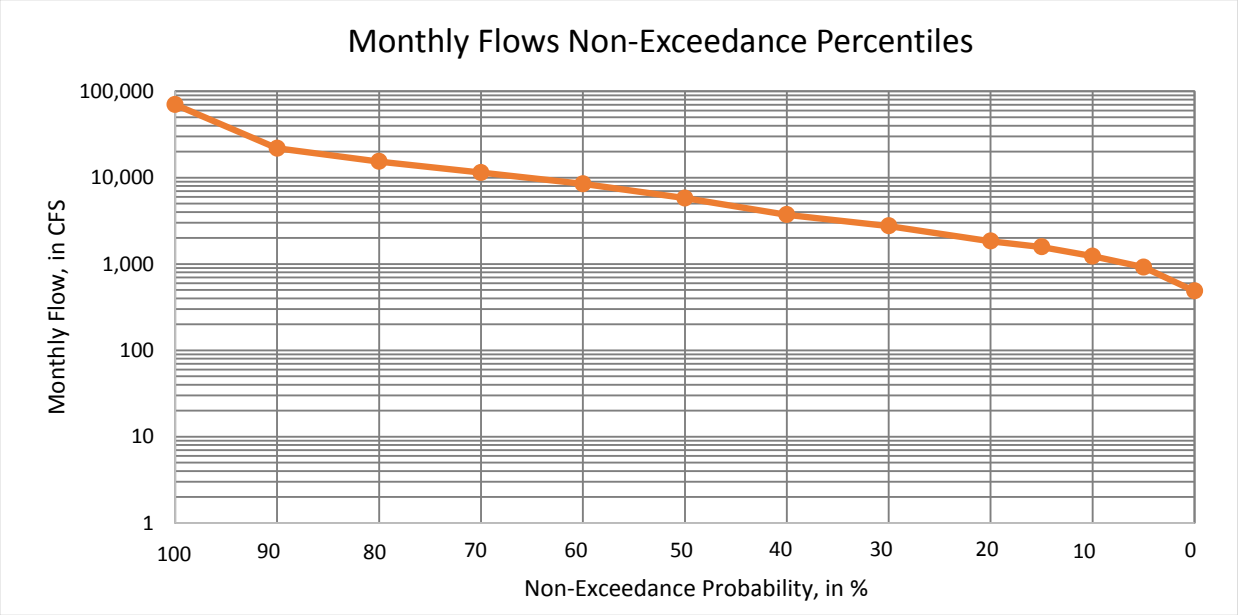
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	29,742	22,915	39,701	15,319	8,436	5,072	2,879	4,245	2,623	9,593	6,064	7,623	12,829
1976	12,865	14,664	20,219	11,665	8,524	3,721	1,727	1,196	2,461	1,452	2,416	6,666	7,262
1977	12,555	5,386	35,437	20,861	2,772	1,362	1,375	917	1,556	6,323	13,718	15,054	9,817
1978	12,930	5,192	14,877	3,124	24,452	6,762	1,314	958	855	500	742	3,202	6,288
1979	29,778	12,203	19,275	30,880	10,000	6,266	8,860	2,162	13,026	2,239	18,674	13,421	13,876
1980	16,124	11,264	52,911	39,096	10,919	2,926	1,591	1,043	1,474	2,611	5,516	3,751	12,447
1981	2,060	8,385	8,602	10,110	3,451	3,525	1,293	770	1,152	952	780	2,384	3,580
1982	21,370	12,780	9,595	22,960	4,590	2,835	2,657	3,199	1,290	1,745	3,871	38,750	10,481
1983	20,440	31,950	26,230	44,220	35,650	8,213	3,355	951	1,338	1,202	8,274	42,160	18,591
1984	16,240	11,090	14,730	20,440	21,880	2,019	1,402	1,179	485	6,530	6,866	6,595	9,123
1985	6,346	23,370	5,447	6,692	12,290	3,024	2,202	3,131	1,838	4,314	4,066	4,901	6,358
1986	2,473	6,056	8,520	2,128	3,191	7,113	1,259	942	917	2,027	14,060	12,550	5,085
1987	12,720	16,560	18,050	3,721	2,543	2,827	1,510	746	947	694	1,772	3,609	5,418
1988	6,300	8,117	5,525	8,379	1,651	789	1,003	819	2,068	3,007	6,936	6,329	4,208
1989	29,990	22,770	23,210	10,120	8,987	18,150	13,600	2,793	3,008	5,860	8,292	5,664	12,652
1990	27,260	37,620	21,630	5,717	9,062	5,518	1,567	855	770	1,045	1,586	32,500	11,980
1991	11,140	40,590	19,010	41,190	70,040	11,500	2,185	1,682	1,616	1,364	2,280	24,970	18,839
1992	5,090	9,086	10,440	5,573	1,489	3,605	2,541	3,393	2,754	1,256	10,490	11,360	5,561
1993	14,530	11,640	11,410	14,090	11,760	2,748	1,641	3,089	1,751	1,409	3,381	6,393	6,965
1994	12,560	28,000	25,010	11,460	3,472	11,010	15,340	2,533	2,604	5,095	6,351	13,630	11,325
1995	14,910	14,920	27,680	21,860	5,625	3,261	2,631	3,684	970	2,130	5,243	13,610	9,688
1996	20,760	11,930	15,910	18,290	3,162	3,566	3,485	3,017	3,504	2,239	7,266	21,920	9,584
1997	23,230	15,710	16,490	6,609	20,330	29,030	5,218	2,885	1,825	3,448	3,489	9,331	11,445
1998	24,920	19,730	20,120	9,219	5,163	2,482	4,589	4,533	1,126	1,212	1,960	13,700	9,034
1999	29,390	15,140	17,720	12,010	7,706	6,107	4,520	766	708	1,010	1,413	1,956	8,181
2000	3,893	3,493	7,508	26,740	1,715	1,648	883	565	536	691	3,438	5,620	4,701
2001	15,350	21,580	18,410	15,590	3,053	10,040	2,004	2,164	3,369	7,582	4,148	24,770	10,608
2002	21,020	11,110	17,230	12,470	16,740	1,680	2,319	1,216	6,349	8,760	13,610	16,480	10,770
2003	7,316	31,460	17,570	14,740	25,810	10,750	5,039	8,214	4,162	3,187	9,060	9,301	12,087
2004	11,050	28,160	18,230	4,792	4,078	13,380	8,566	2,743	3,419	6,044	16,790	30,490	12,211
2005	11,480	13,540	8,647	17,540	3,326	11,120	7,646	4,958	8,108	1,702	3,160	9,314	8,318
2006	18,830	24,550	11,180	6,298	6,909	1,205	872	806	1,520	4,852	7,737	4,835	7,362
2007	16,540	7,019	4,422	2,432	1,295	943	1,641	632	1,183	1,928	1,573	1,939	3,454
2008	2,793	10,210	8,908	9,013	8,488	2,056	739	2,005	1,919	1,913	1,602	24,000	6,131
2009	18,730	7,834	31,510	10,080	21,320	3,724	1,705	2,174	11,320	24,530	9,366	17,870	13,444
2010	18,290	16,350	11,610	8,134	12,360	3,916	2,096	1,231	846	1,023	2,236	3,462	6,751
2011	8,463	6,222	17,870	28,270	7,795	2,099	1,355	1,574	4,768	1,030	2,088	10,500	7,663
2012	12,000	11,150	14,170	5,424	2,839	1,571	1,820	1,758	2,474	3,859	1,619	10,040	5,715
2013	26,670	16,600	16,840	15,330	12,100	3,383	3,760	2,146	1,853	1,473	2,679	8,864	9,287
2014	6,790	14,910	7,743	21,750	5,114	9,183	3,852	1,391	1,122	5,058	4,952	13,040	7,836

Non-Exceedance Percentiles

02444160 - Tombigbee River at Bevill Lock and Dam near Pickensville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,060	3,493	4,422	2,128	1,295	789	739	565	485	500	742	1,939	3,454
5th %	2,777	5,377	5,521	3,089	1,643	1,192	882	740	699	694	1,381	2,363	4,177
10th %	4,970	6,205	7,720	4,685	2,460	1,550	1,233	770	838	1,004	1,585	3,436	5,046
15th %	6,339	7,712	8,590	5,551	2,829	1,675	1,311	817	908	1,029	1,616	3,730	5,539
20th %	7,211	8,331	8,856	6,182	3,140	2,049	1,371	904	965	1,171	1,922	4,888	6,048
30th %	11,378	11,104	11,341	8,306	3,466	2,803	1,584	1,018	1,174	1,396	2,375	6,374	6,901
40th %	12,656	11,814	14,818	10,098	5,143	3,166	1,718	1,225	1,502	1,728	3,415	8,368	7,767
Median	14,720	14,102	17,035	11,838	7,751	3,586	2,141	1,720	1,788	2,079	4,107	9,686	9,079
60th %	16,360	15,368	17,942	14,972	8,709	4,379	2,577	2,163	1,979	2,769	5,735	12,746	9,740
70th %	19,313	17,539	19,089	17,765	11,172	6,414	3,394	2,758	2,610	3,996	7,035	13,651	10,937
80th %	21,742	23,006	21,946	21,772	13,236	9,354	4,534	3,097	3,379	5,248	8,446	18,680	12,112
90th %	27,473	28,490	28,063	28,531	22,137	11,158	7,738	3,740	4,926	6,635	13,621	25,522	12,891
Maximum	29,990	40,590	52,911	44,220	70,040	29,030	15,340	8,214	13,026	24,530	18,674	42,160	18,839
Average	15,373	16,031	17,490	14,858	10,752	5,753	3,351	2,127	2,640	3,572	5,739	12,814	9,174

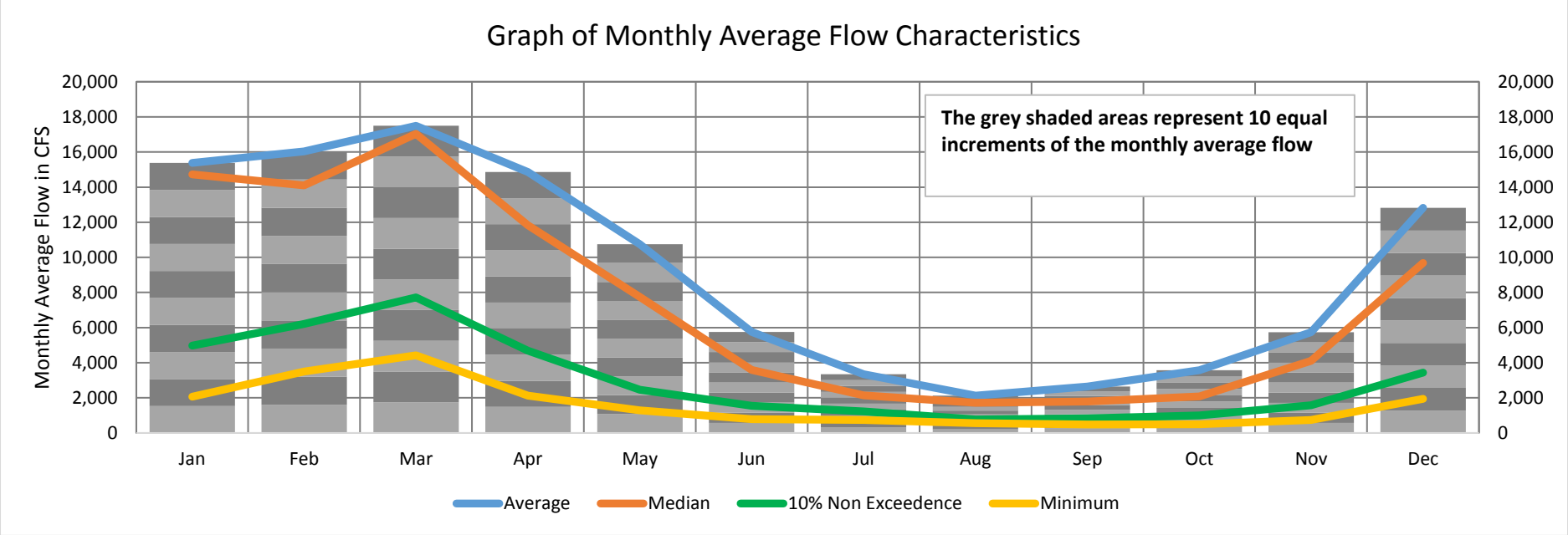
	Flows in CFS
Minimum	484.6
5th %	917
10th %	1,230
15th %	1,570
20th %	1,835
30th %	2,747
40th %	3,721
Median	5,789
60th %	8,447
70th %	11,425
80th %	15,332
90th %	21,862
Maximum	70,040
Average	9,208



Q10/Q50	0.21
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.08
Q5/DA	0.16
Q10/DA	0.21
Q15/DA	0.27
Q20/DA	0.32
Q30/DA	0.48
Q40/DA	0.65
Q50/DA	1.01
Q60/DA	1.47
Q70/DA	1.99
Q80/DA	2.67
Q90/DA	3.80
Qmax/DA	12.18

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

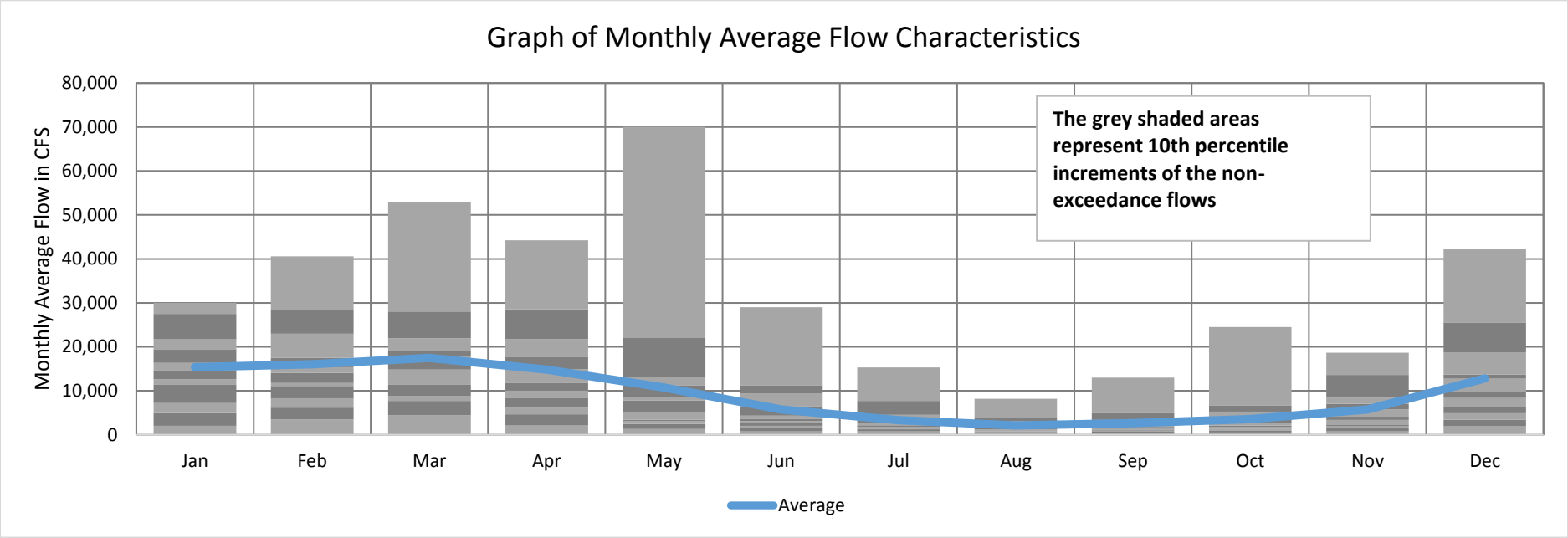
Site #: 02444160 Name: Tombigbee River at Bevill Lock and Dam near Pickensville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	15,373	16,031	17,490	14,858	10,752	5,753	3,351	2,127	2,640	3,572	5,739	12,814
100%	29,990	40,590	52,911	44,220	70,040	29,030	15,340	8,214	13,026	24,530	18,674	42,160
98%	29,825	38,273	42,607	41,857	43,216	20,544	13,983	5,674	11,695	12,879	17,204	39,500
95%	29,743	32,234	35,651	39,201	26,302	13,619	9,097	4,554	8,269	8,802	14,197	32,813
90%	27,473	28,490	28,063	28,531	22,137	11,158	7,738	3,740	4,926	6,635	13,621	25,522
75%	20,825	21,878	20,145	20,545	12,148	7,388	3,783	2,918	2,818	4,904	7,871	15,410
50%	14,720	14,102	17,035	11,838	7,751	3,586	2,141	1,720	1,788	2,079	4,107	9,686
25%	10,403	9,929	10,229	6,671	3,292	2,386	1,483	948	1,125	1,245	2,199	5,653
10%	4,970	6,205	7,720	4,685	2,460	1,550	1,233	770	838	1,004	1,585	3,436
5%	2,777	5,377	5,521	3,089	1,643	1,192	882	740	699	694	1,381	2,363
2%	2,382	4,818	5,222	2,365	1,446	909	843	617	525	649	772	1,952
0%	2,060	3,493	4,422	2,128	1,295	789	739	565	485	500	742	1,939

Site #: 02444160 Name: Tombigbee River at Bevill Lock and Dam near Pickensville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,750 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	15,373	16,031	17,490	14,858	10,752	5,753	3,351	2,127	2,640	3,572	5,739	12,814
100%	29,990	40,590	52,911	44,220	70,040	29,030	15,340	8,214	13,026	24,530	18,674	42,160
98%	29,825	38,273	42,607	41,857	43,216	20,544	13,983	5,674	11,695	12,879	17,204	39,500
95%	29,743	32,234	35,651	39,201	26,302	13,619	9,097	4,554	8,269	8,802	14,197	32,813
90%	27,473	28,490	28,063	28,531	22,137	11,158	7,738	3,740	4,926	6,635	13,621	25,522
75%	20,825	21,878	20,145	20,545	12,148	7,388	3,783	2,918	2,818	4,904	7,871	15,410
50%	14,720	14,102	17,035	11,838	7,751	3,586	2,141	1,720	1,788	2,079	4,107	9,686
25%	10,403	9,929	10,229	6,671	3,292	2,386	1,483	948	1,125	1,245	2,199	5,653
10%	4,970	6,205	7,720	4,685	2,460	1,550	1,233	770	838	1,004	1,585	3,436
5%	2,777	5,377	5,521	3,089	1,643	1,192	882	740	699	694	1,381	2,363
2%	2,382	4,818	5,222	2,365	1,446	909	843	617	525	649	772	1,952
0%	2,060	3,493	4,422	2,128	1,295	789	739	565	485	500	742	1,939

Monthly Flows (in CFS) for
02445000 - Lubbub Creek near Carrollton, Ala.

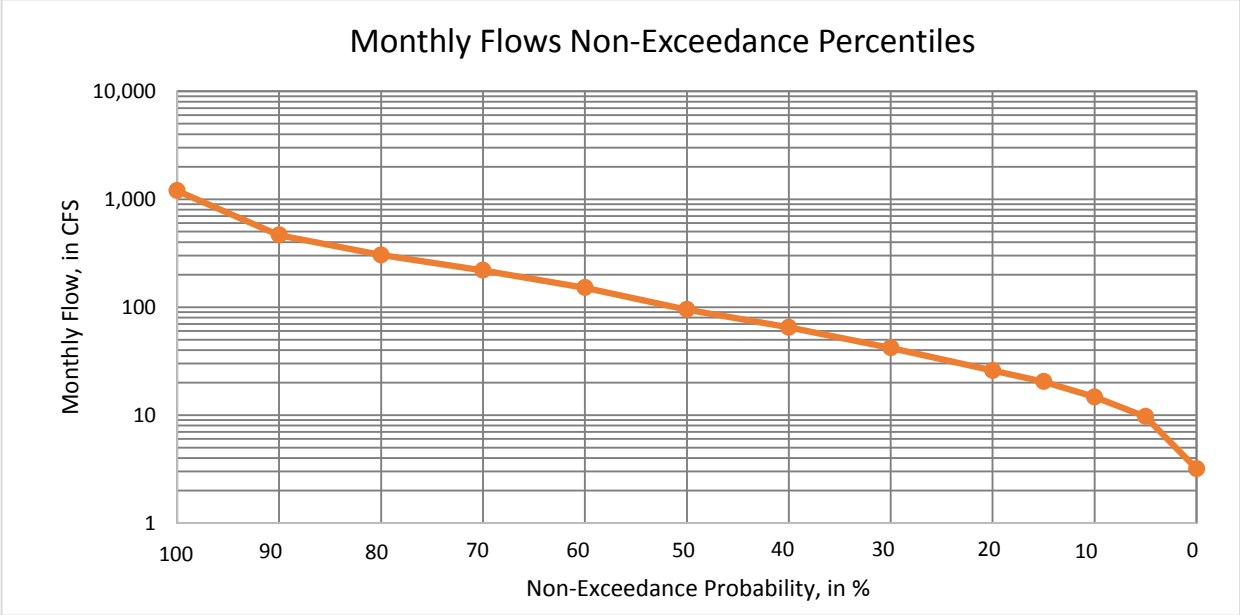
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	475	465	429	232	122	69	60	139	44	220	81	147	206
1976	265	302	581	269	362	73	39	26	45	41	59	190	188
1977	333	176	536	639	51	21	25	31	70	120	229	210	203
1978	203	128	277	95	452	94	20	9	10	8	18	70	116
1979	586	256	417	981	116	53	73	25	309	51	209	157	268
1980	297	247	729	574	380	67	25	13	23	42	98	172	222
1981	64	178	179	357	33	35	12	11	7	11	12	53	78
1982	473	338	217	399	84	40	40	46	12	20	60	652	198
1983	240	665	778	728	539	123	38	23	21	23	85	933	348
1984	368	214	293	465	403	38	26	23	9	37	77	257	184
1985	97	487	108	109	258	44	38	96	27	55	62	88	120
1986	54	106	149	36	30	89	13	9	7	20	65	177	63
1987	305	366	429	78	30	25	18	6	5	4	9	21	107
1988	120	148	69	119	27	8	10	6	31	58	124	117	69
1989	630	282	473	248	93	320	230	30	22	89	148	121	224
1990	646	1,172	519	150	172	118	41	14	9	12	23	463	273
1991	219	645	399	964	1,197	250	80	43	38	23	65	194	341
1992	134	179	204	92	28	42	41	82	122	25	197	251	116
1993	478	219	211	214	145	38	44	20	22	12	54	110	130
1994	199	644	454	415	58	50	86	59	30	51	70	248	194
1995	204	278	504	280	112	33	27	23	14	73	195	277	168
1996	426	354	319	289	76	51	86	60	63	52	173	250	182
1997	420	335	327	105	248	468	165	59	19	35	75	154	200
1998	757	341	413	311	73	30	84	66	15	13	34	135	189
1999	631	451	304	150	95	66	78	11	8	13	19	31	153
2000	103	90	349	633	30	13	6	6	3	4	29	41	108
2001	180	350	547	301	63	193	29	18	127	142	61	534	211
2002	287	280	193	169	254	30	73	20	30	146	388	319	182
2003	171	676	492	215	776	269	144	157	59	49	81	199	272
2004	192	745	356	107	60	129	145	42	46	31	196	610	218
2005	163	207	195	338	69	262	139	36	94	55	33	149	144
2006	371	633	325	104	93	15	8	9	13	76	281	79	164
2007	332	122	91	44	21	8	20	11	14	8	12	18	58
2008	41	226	284	105	151	47	10	18	15	15	17	443	114
2009	704	135	653	325	252	52	18	46	193	494	255	501	305
2010	298	365	392	207	328	66	26	19	10	9	25	80	151
2011	226	141	552	484	92	16	14	16	162	17	33	160	159
2012	396	260	270	55	45	18	22	29	59	79	31	164	119
2013	660	355	282	279	247	47	271	90	25	19	37	156	206
2014	160	315	181	520	152	67	30	17	14	28	47	224	145

Non-Exceedance Percentiles

02445000 - Lubbub Creek near Carrollton, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	41	90	69	36	21	8	6	6	3	4	9	18	58
5th %	64	121	107	55	28	13	10	6	7	8	12	31	69
10th %	102	134	176	90	30	16	12	9	8	9	18	51	104
15th %	132	147	192	102	32	21	14	10	9	11	22	77	113
20th %	163	177	202	105	50	29	18	11	10	13	28	86	116
30th %	196	217	275	141	67	37	24	16	14	18	33	131	140
40th %	224	259	300	211	89	43	27	20	18	23	57	155	157
Median	292	292	338	259	104	50	38	23	23	33	63	168	182
60th %	333	339	405	294	148	66	41	29	30	45	76	196	191
70th %	403	358	436	344	248	71	73	42	44	52	89	249	204
80th %	476	469	507	469	272	119	84	59	60	74	177	285	219
90th %	632	647	554	634	408	251	145	83	122	122	211	504	272
Maximum	757	1,172	778	981	1,197	468	271	157	309	494	388	933	348
Average	323	347	362	305	195	87	59	37	46	57	94	229	177

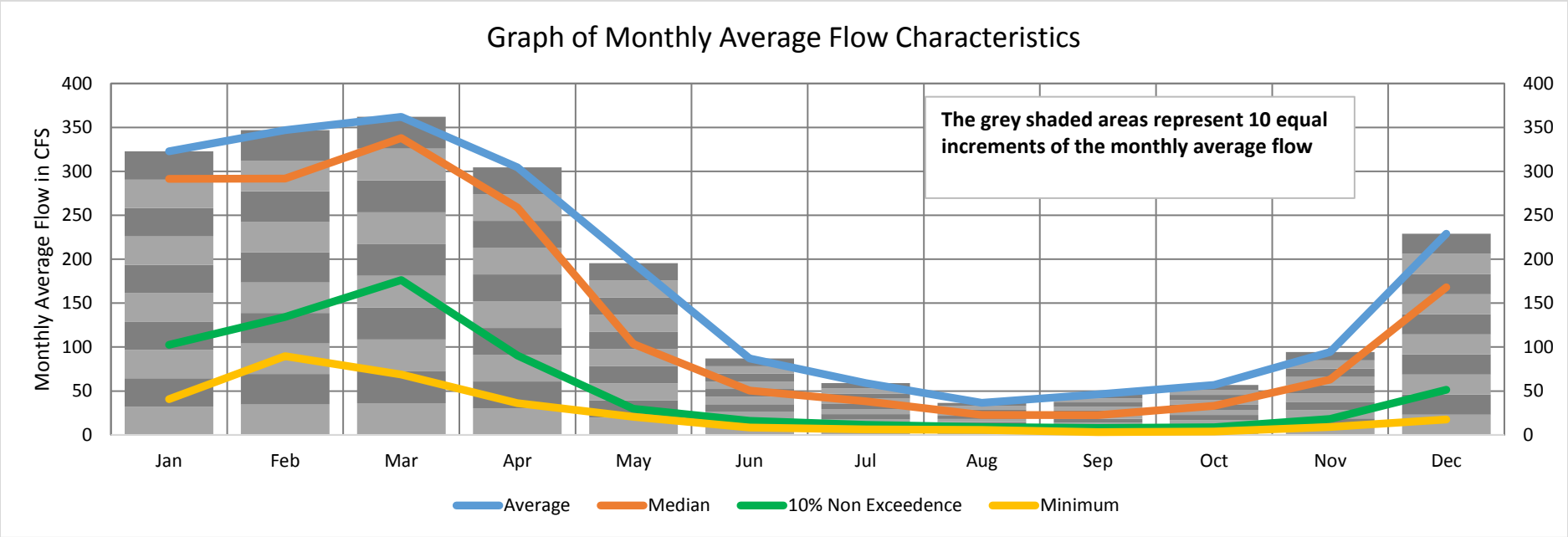
	Flows in CFS
Minimum	3.2
5th %	10
10th %	15
15th %	20
20th %	26
30th %	42
40th %	65
Median	95
60th %	152
70th %	219
80th %	304
90th %	465
Maximum	1,197
Average	178



Q10/Q50	0.16
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.03
Q5/DA	0.09
Q10/DA	0.13
Q15/DA	0.18
Q20/DA	0.23
Q30/DA	0.37
Q40/DA	0.58
Q50/DA	0.85
Q60/DA	1.35
Q70/DA	1.96
Q80/DA	2.72
Q90/DA	4.15
Qmax/DA	10.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

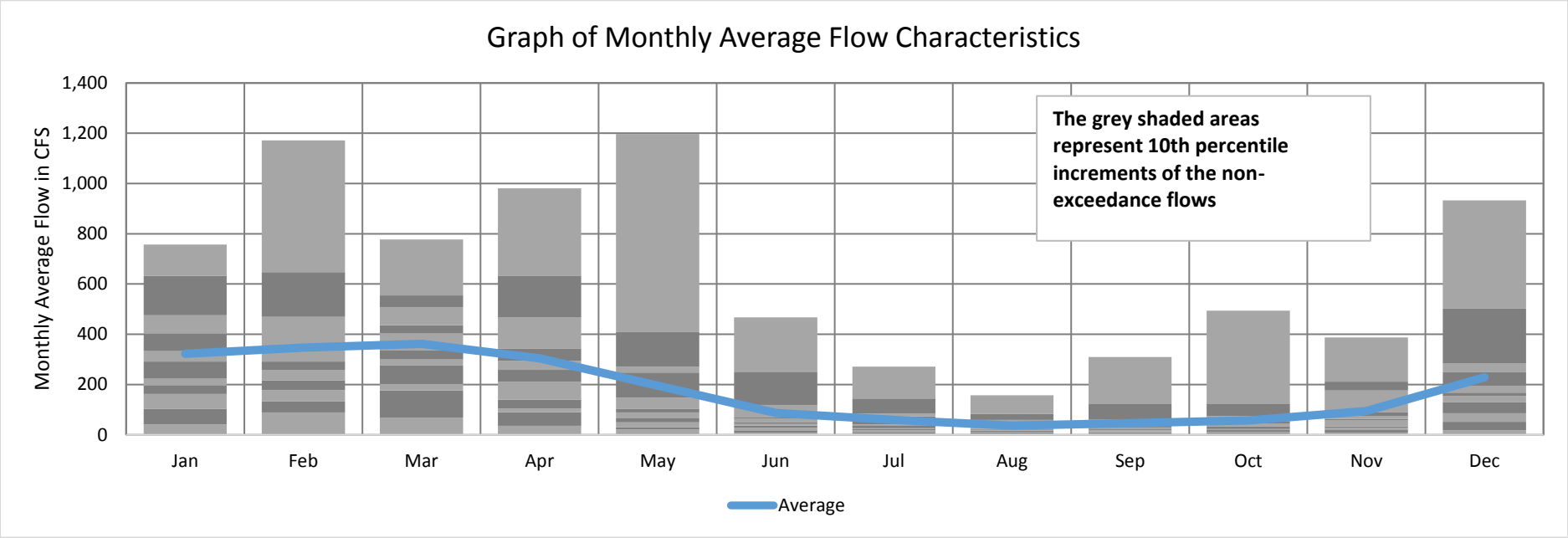
Site #: 02445000 Name: Lubbub Creek near Carrollton, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	323	347	362	305	195	87	59	37	46	57	94	229
100%	757	1,172	778	981	1,197	468	271	157	309	494	388	933
98%	716	839	740	967	869	353	239	143	219	280	305	714
95%	662	680	657	740	550	271	168	98	164	150	257	613
90%	632	647	554	634	408	251	145	83	122	122	211	504
75%	438	387	478	403	253	90	78	46	49	56	130	253
50%	292	292	338	259	104	50	38	23	23	33	63	168
25%	178	200	215	109	59	33	20	14	13	15	32	115
10%	102	134	176	90	30	16	12	9.0	7.9	8.6	18	51
5%	64	121	107	55	28	13	9.6	6.3	6.6	7.6	12	31
2%	51	102	86	42	26	8.4	7.4	6.0	4.8	4.1	11	21
0%	41	90	69	36	21	8.4	6.1	5.7	3.2	3.9	9.1	18

Site #: 02445000 Name: Lubbub Creek near Carrollton, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 112 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	323	347	362	305	195	87	59	37	46	57	94	229
100%	757	1,172	778	981	1,197	468	271	157	309	494	388	933
98%	716	839	740	967	869	353	239	143	219	280	305	714
95%	662	680	657	740	550	271	168	98	164	150	257	613
90%	632	647	554	634	408	251	145	83	122	122	211	504
75%	438	387	478	403	253	90	78	46	49	56	130	253
50%	292	292	338	259	104	50	38	23	23	33	63	168
25%	178	200	215	109	59	33	20	14	13	15	32	115
10%	102	134	176	90	30	16	12	9.0	7.9	8.6	18	51
5%	64	121	107	55	28	13	9.6	6.3	6.6	7.6	12	31
2%	51	102	86	42	26	8.4	7.4	6.0	4.8	4.1	11	21
0%	41	90	69	36	21	8.4	6.1	5.7	3.2	3.9	9.1	18

Monthly Flows (in CFS) for
02445500 - Sipsey River at Fayette, Ala.

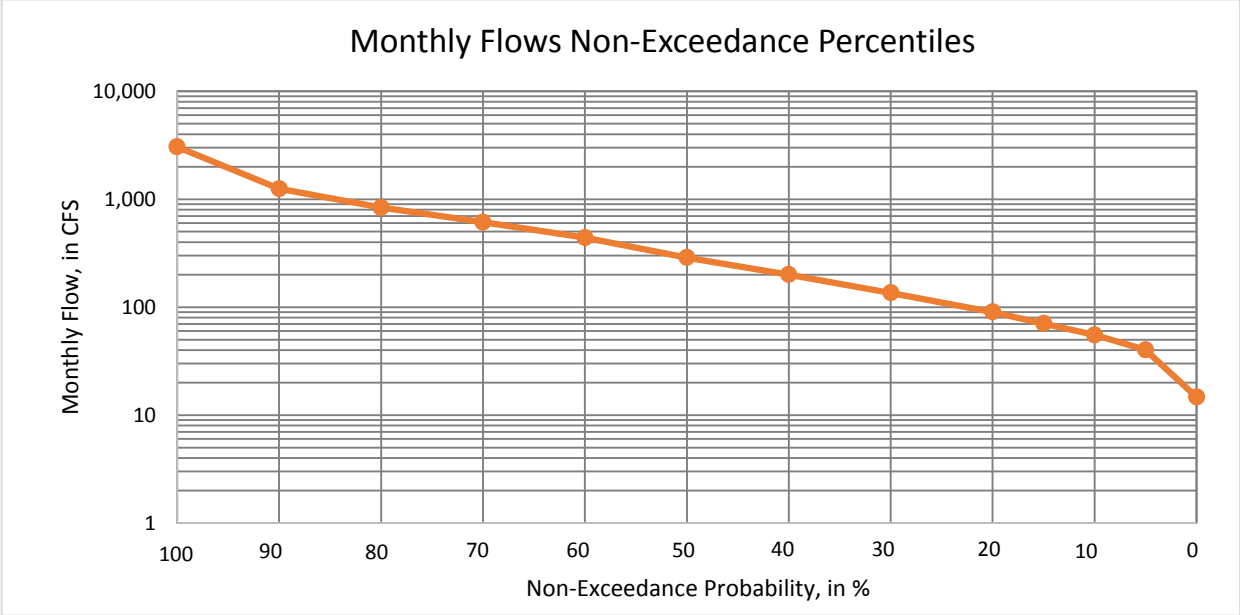
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,583	1,736	1,273	376	436	150	247	426	106	869	129	342	635
1976	863	612	2,087	409	1,204	190	118	59	69	53	85	280	505
1977	882	593	1,809	1,729	76	45	70	70	170	749	679	469	611
1978	722	252	682	181	749	275	55	51	34	35	55	221	278
1979	1,750	739	1,516	2,529	315	152	173	91	606	161	569	589	764
1980	940	697	2,687	2,303	945	222	109	65	55	144	303	498	748
1981	208	512	516	964	115	121	47	45	28	42	49	174	232
1982	1,250	916	611	1,066	262	136	136	156	46	76	195	1,690	544
1983	672	1,721	1,999	1,875	1,410	368	132	83	79	86	265	2,386	920
1984	990	604	804	1,229	1,078	132	95	84	35	129	243	714	512
1985	299	1,284	329	331	715	149	132	297	98	182	200	274	352
1986	179	324	437	126	107	276	50	37	31	75	210	509	196
1987	833	985	1,140	247	105	91	67	27	23	17	37	79	301
1988	360	435	221	358	99	35	40	25	109	190	372	352	214
1989	1,634	775	1,250	691	288	872	646	105	83	277	435	365	618
1990	1,674	2,987	1,362	440	497	356	140	55	38	49	85	1,224	729
1991	619	1,671	1,067	2,462	3,051	695	252	146	131	84	209	554	906
1992	397	515	580	284	100	144	141	258	366	89	562	699	343
1993	1,262	618	597	604	427	131	149	76	83	47	179	333	375
1994	565	1,670	1,201	1,106	191	168	268	192	105	168	225	691	538
1995	578	767	1,324	772	340	117	97	84	54	234	556	764	473
1996	1,133	955	870	793	242	169	268	196	203	171	499	697	514
1997	1,117	907	888	320	691	1,235	479	194	72	121	238	450	558
1998	1,949	923	1,101	847	232	108	264	211	59	51	118	400	521
1999	1,637	1,194	832	439	293	212	247	42	33	52	72	110	427
2000	315	279	942	1,643	106	51	26	26	15	19	103	139	304
2001	519	945	1,430	825	204	552	103	67	380	418	200	1,397	585
2002	788	772	552	489	705	105	232	76	108	429	1,039	870	513
2003	495	1,748	1,297	607	1,995	743	426	459	193	165	256	566	741
2004	548	1,919	961	327	195	384	428	144	155	111	558	1,587	602
2005	475	588	557	916	222	727	410	125	291	180	115	438	418
2006	997	1,642	883	317	287	60	32	38	51	240	774	248	456
2007	902	365	282	149	77	35	74	45	55	34	48	67	177
2008	140	635	782	321	443	158	41	67	57	58	64	1,175	328
2009	1,816	401	1,691	883	702	173	69	154	552	1,301	710	1,317	820
2010	817	981	1,049	586	890	213	94	70	40	36	92	252	424
2011	636	416	1,442	1,276	287	62	56	60	472	65	115	465	446
2012	1,060	722	747	183	153	69	83	105	193	250	109	476	345
2013	1,708	958	776	768	689	159	749	279	90	71	128	457	569
2014	465	857	521	1,365	445	215	108	63	54	100	159	630	411

Non-Exceedance Percentiles

02445500 - Sipsey River at Fayette, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	140	252	221	126	76	35	26	25	15	17	37	67	177
5th %	206	321	326	179	98	45	39	27	28	33	49	109	213
10th %	314	397	508	240	105	59	46	38	33	36	63	171	273
15th %	391	432	548	312	107	68	54	44	35	46	83	244	303
20th %	473	515	575	320	145	102	65	50	40	51	91	270	340
30th %	560	609	728	370	217	128	80	62	54	63	115	349	400
40th %	658	712	821	469	277	147	100	69	58	81	147	445	438
Median	825	774	915	649	304	159	125	80	81	105	200	473	508
60th %	917	918	1,080	806	439	180	140	97	101	151	231	559	528
70th %	1,077	965	1,257	930	690	217	237	145	115	174	276	693	574
80th %	1,326	1,356	1,376	1,238	722	358	264	193	193	235	510	785	622
90th %	1,677	1,722	1,703	1,744	1,090	699	426	260	367	419	580	1,325	749
Maximum	1,949	2,987	2,687	2,529	3,051	1,235	749	459	606	1,301	1,039	2,386	920
Average	894	941	1,027	828	534	256	184	121	136	191	276	624	499

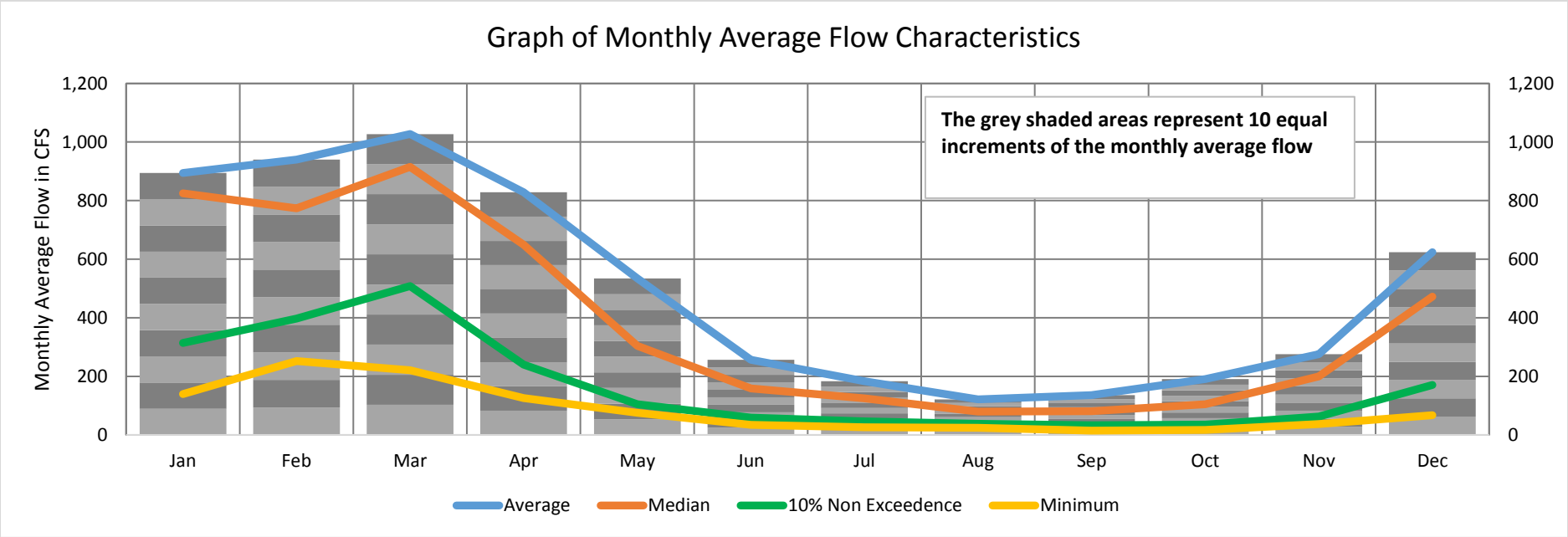
	Flows in CFS
Minimum	14.7
5th %	40
10th %	55
15th %	70
20th %	90
30th %	136
40th %	200
Median	287
60th %	440
70th %	611
80th %	836
90th %	1,250
Maximum	3,051
Average	501



Q10/Q50	0.19
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.05
Q5/DA	0.14
Q10/DA	0.20
Q15/DA	0.25
Q20/DA	0.32
Q30/DA	0.48
Q40/DA	0.71
Q50/DA	1.02
Q60/DA	1.56
Q70/DA	2.17
Q80/DA	2.97
Q90/DA	4.43
Qmax/DA	10.82

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

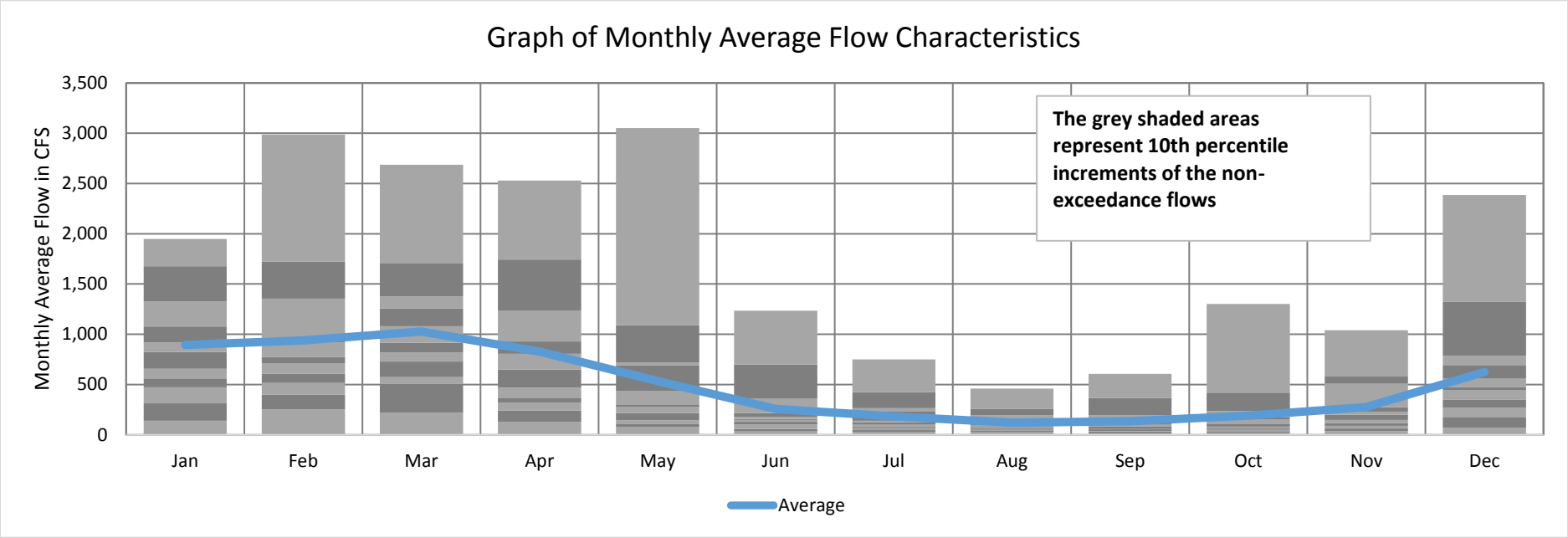
Site #: 02445500 Name: Sipsey River at Fayette, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	894	941	1,027	828	534	256	184	121	136	191	276	624
100%	1,949	2,987	2,687	2,529	3,051	1,235	749	459	606	1,301	1,039	2,386
98%	1,845	2,154	2,219	2,476	2,228	952	669	433	564	964	832	1,843
95%	1,753	1,757	2,004	2,311	1,439	749	487	304	476	755	713	1,592
90%	1,677	1,722	1,703	1,744	1,090	699	426	260	367	419	580	1,325
75%	1,162	1,038	1,304	1,076	703	276	248	155	158	184	388	703
50%	825	774	915	649	304	159	125	80	81	105	200	473
25%	513	591	608	330	194	114	70	58	50	53	107	320
10%	314	397	508	240	105	59	46	38	33	36	63	171
5%	206	321	326	179	98	45	39	27	28	33	49	109
2%	170	273	269	144	77	35	31	26	21	18	45	76
0%	140	252	221	126	76	35	26	25	15	17	37	67

Site #: 02445500 Name: Sipsey River at Fayette, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 282 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	894	941	1,027	828	534	256	184	121	136	191	276	624
100%	1,949	2,987	2,687	2,529	3,051	1,235	749	459	606	1,301	1,039	2,386
98%	1,845	2,154	2,219	2,476	2,228	952	669	433	564	964	832	1,843
95%	1,753	1,757	2,004	2,311	1,439	749	487	304	476	755	713	1,592
90%	1,677	1,722	1,703	1,744	1,090	699	426	260	367	419	580	1,325
75%	1,162	1,038	1,304	1,076	703	276	248	155	158	184	388	703
50%	825	774	915	649	304	159	125	80	81	105	200	473
25%	513	591	608	330	194	114	70	58	50	53	107	320
10%	314	397	508	240	105	59	46	38	33	36	63	171
5%	206	321	326	179	98	45	39	27	28	33	49	109
2%	170	273	269	144	77	35	31	26	21	18	45	76
0%	140	252	221	126	76	35	26	25	15	17	37	67

Monthly Flows (in CFS) for
02446500 - Sipsey River near Elrod, Ala.

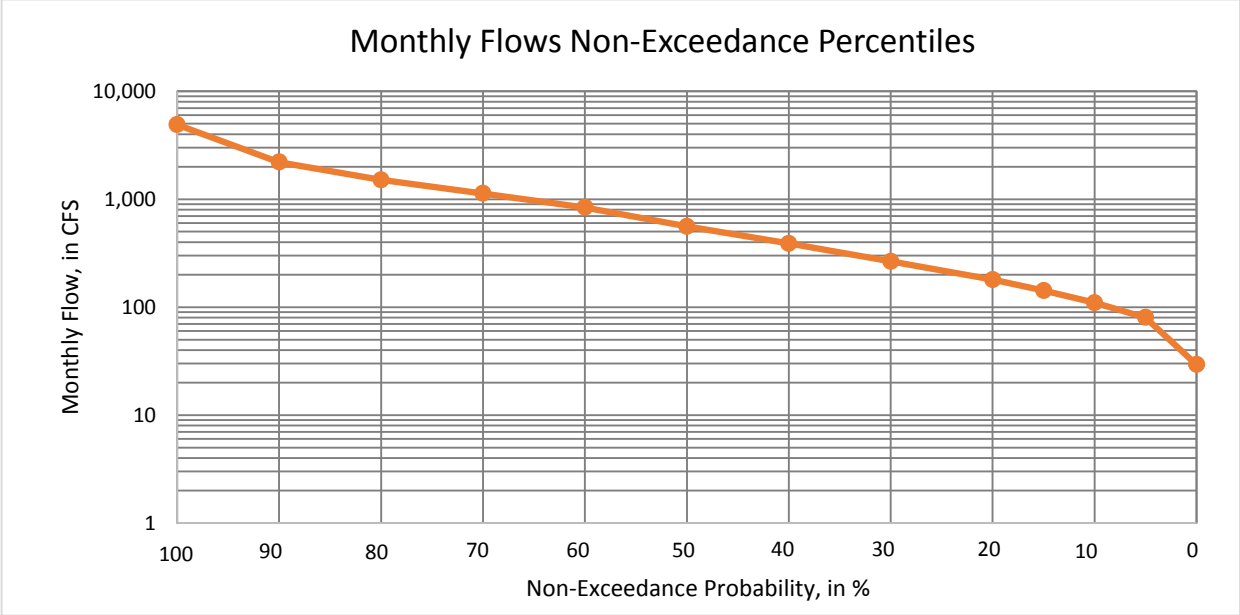
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,621	2,807	2,225	847	958	380	593	939	275	1,660	332	784	1,197
1976	1,651	1,259	3,217	908	2,132	471	304	152	180	137	223	661	944
1977	1,679	1,228	2,895	2,800	198	114	184	183	426	1,478	1,368	1,016	1,129
1978	1,436	605	1,373	452	1,478	652	142	132	81	68	107	417	581
1979	2,996	1,343	2,629	4,163	589	288	327	174	1,111	305	1,045	1,081	1,334
1980	1,686	1,269	4,390	3,833	1,694	419	207	124	105	273	566	920	1,291
1981	392	945	952	1,726	218	231	91	87	56	82	95	330	428
1982	2,201	1,645	1,120	1,897	492	258	258	296	90	146	368	2,903	971
1983	1,226	2,951	3,379	3,190	2,460	687	251	159	152	164	497	3,955	1,583
1984	1,770	1,108	1,455	2,167	1,917	252	182	160	69	244	457	1,299	924
1985	561	2,257	614	619	1,301	282	251	557	187	343	378	514	645
1986	339	605	810	239	205	518	96	72	61	144	397	940	368
1987	1,505	1,763	2,021	464	201	174	128	53	45	35	72	152	545
1988	671	807	416	668	189	68	77	49	207	358	694	656	401
1989	2,815	1,405	2,201	1,260	540	1,571	1,181	201	158	520	807	680	1,111
1990	2,878	4,813	2,383	815	919	663	266	106	75	95	162	2,159	1,258
1991	1,133	2,874	1,899	4,065	4,902	1,267	473	276	249	160	394	1,019	1,549
1992	738	950	1,065	533	190	274	267	485	682	171	1,033	1,273	636
1993	2,221	1,131	1,095	1,107	793	250	283	146	158	90	339	622	685
1994	1,039	2,872	2,121	1,965	360	318	503	363	201	319	425	1,260	966
1995	1,062	1,391	2,322	1,400	636	222	185	162	105	441	1,022	1,385	858
1996	2,009	1,712	1,567	1,436	455	319	504	371	384	324	921	1,270	935
1997	1,983	1,631	1,599	598	1,260	2,177	885	366	139	231	449	834	1,009
1998	3,302	1,657	1,956	1,529	437	205	495	399	114	98	224	744	929
1999	2,820	2,109	1,502	815	549	400	464	82	65	101	138	210	765
2000	590	523	1,690	2,830	202	98	52	51	29	37	196	264	544
2001	956	1,695	2,493	1,490	386	1,016	196	129	708	776	377	2,440	1,052
2002	1,427	1,400	1,016	904	1,284	200	438	146	205	796	1,853	1,567	934
2003	915	2,994	2,277	1,113	3,373	1,349	790	850	365	312	481	1,040	1,313
2004	1,008	3,257	1,721	612	367	714	794	274	293	211	1,026	2,741	1,072
2005	878	1,079	1,024	1,645	419	1,322	762	239	546	341	220	813	770
2006	1,783	2,828	1,590	594	538	115	63	75	98	451	1,403	467	820
2007	1,622	681	529	282	147	68	142	86	106	65	92	129	328
2008	265	1,161	1,417	599	822	300	80	129	110	111	122	2,078	598
2009	3,099	745	2,905	1,590	1,278	328	133	292	1,016	2,285	1,292	2,310	1,449
2010	1,477	1,756	1,869	1,076	1,601	401	179	134	78	69	175	473	770
2011	1,164	772	2,511	2,243	537	118	108	116	872	125	218	861	803
2012	1,888	1,313	1,357	345	290	132	158	199	365	470	207	881	632
2013	2,932	1,716	1,406	1,393	1,256	302	1,360	524	172	137	244	846	1,024
2014	861	1,546	960	2,387	825	406	205	122	104	190	302	1,152	748

Non-Exceedance Percentiles

02446500 - Sipsey River near Elrod, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	265	523	416	239	147	68	52	49	29	35	72	129	328
5th %	389	605	610	342	190	96	76	53	55	64	95	207	400
10th %	587	739	937	463	200	114	89	74	64	69	121	324	533
15th %	728	802	1,008	584	204	130	106	86	74	89	158	459	576
20th %	875	949	1,057	599	276	195	132	102	80	98	192	506	626
30th %	1,030	1,152	1,369	770	409	244	173	127	104	133	222	674	729
40th %	1,201	1,295	1,483	907	519	279	191	141	112	154	320	825	790
Median	1,491	1,403	1,645	1,187	569	310	251	159	158	200	378	900	926
60th %	1,682	1,650	1,922	1,458	823	388	274	189	192	286	434	1,027	953
70th %	1,917	1,728	2,208	1,669	1,257	434	445	274	257	329	518	1,263	1,032
80th %	2,301	2,367	2,405	2,182	1,336	668	503	364	369	443	941	1,421	1,143
90th %	2,883	2,882	2,896	2,866	1,939	1,273	790	489	685	778	1,070	2,323	1,315
Maximum	3,302	4,813	4,390	4,163	4,902	2,177	1,360	939	1,111	2,285	1,853	3,955	1,583
Average	1,590	1,665	1,799	1,465	960	483	351	236	261	359	518	1,129	898

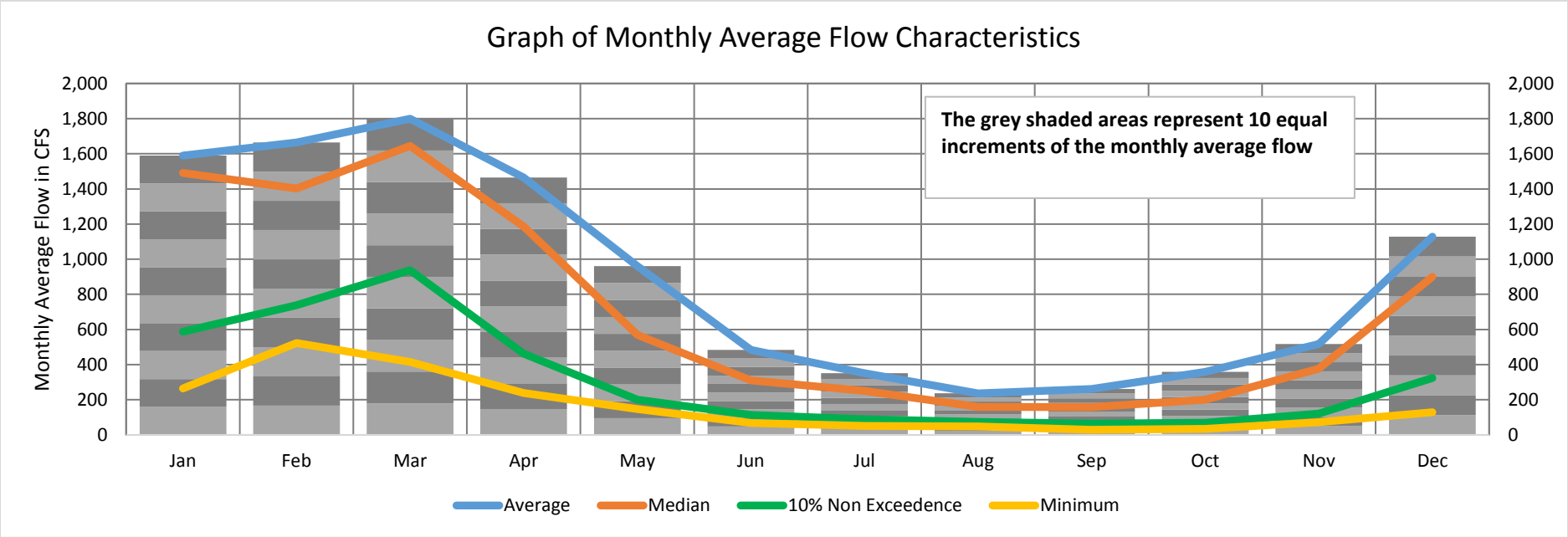
	Flows in CFS
Minimum	29.3
5th %	80
10th %	110
15th %	142
20th %	180
30th %	265
40th %	389
Median	559
60th %	838
70th %	1,132
80th %	1,510
90th %	2,201
Maximum	4,902
Average	901



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.06
Q5/DA	0.15
Q10/DA	0.21
Q15/DA	0.27
Q20/DA	0.34
Q30/DA	0.50
Q40/DA	0.74
Q50/DA	1.06
Q60/DA	1.59
Q70/DA	2.14
Q80/DA	2.86
Q90/DA	4.17
Qmax/DA	9.28

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

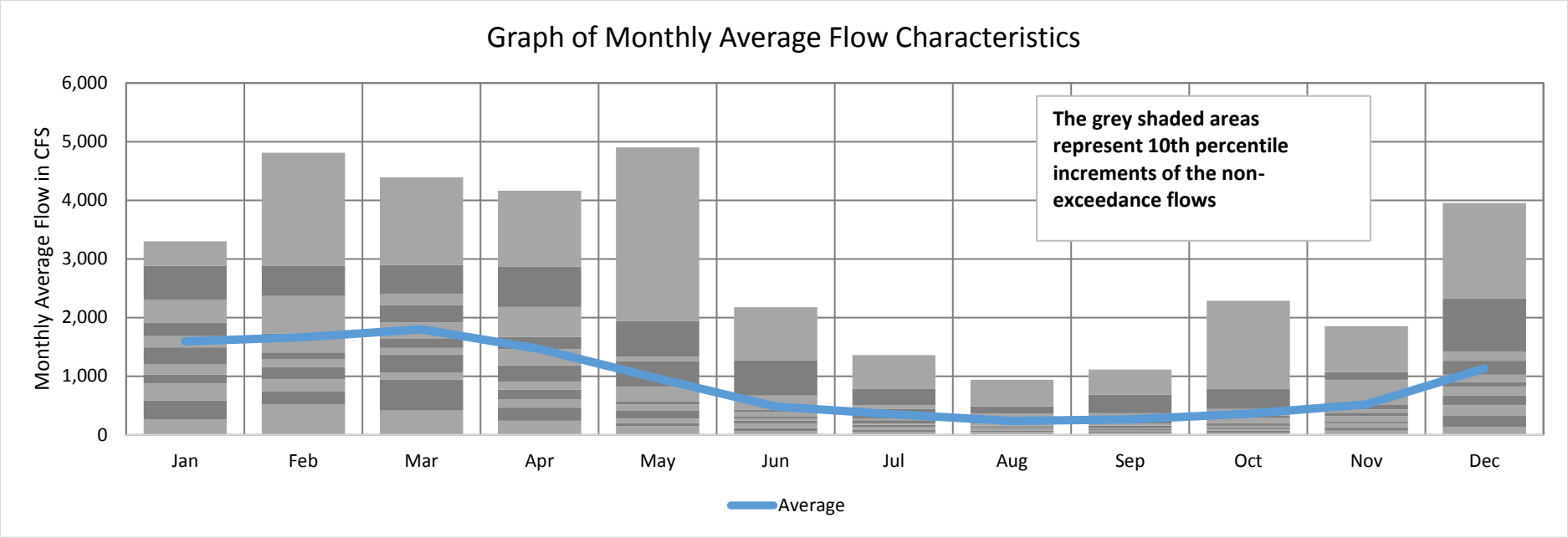
Site #: 02446500 Name: Sipsey River near Elrod, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,590	1,665	1,799	1,465	960	483	351	236	261	359	518	1,129
100%	3,302	4,813	4,390	4,163	4,902	2,177	1,360	939	1,111	2,285	1,853	3,955
98%	3,144	3,599	3,601	4,087	3,709	1,704	1,220	870	1,037	1,798	1,502	3,134
95%	3,001	3,007	3,225	3,845	2,506	1,360	900	571	879	1,487	1,370	2,749
90%	2,883	2,882	2,896	2,866	1,939	1,273	790	489	685	778	1,070	2,323
75%	2,057	1,850	2,288	1,914	1,280	552	479	293	311	347	722	1,280
50%	1,491	1,403	1,645	1,187	569	310	251	159	158	200	378	900
25%	946	1,101	1,114	617	366	218	142	120	96	109	215	648
10%	587	739	937	463	200	114	89	74	64	69	121	324
5%	389	605	610	342	190	96	76	53	55	64	95	207
2%	323	587	504	273	179	68	60	51	42	36	88	146
0%	265	523	416	239	147	68	52	49	29	35	72	129

Site #: 02446500 Name: Sipsey River near Elrod, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 528 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,590	1,665	1,799	1,465	960	483	351	236	261	359	518	1,129
100%	3,302	4,813	4,390	4,163	4,902	2,177	1,360	939	1,111	2,285	1,853	3,955
98%	3,144	3,599	3,601	4,087	3,709	1,704	1,220	870	1,037	1,798	1,502	3,134
95%	3,001	3,007	3,225	3,845	2,506	1,360	900	571	879	1,487	1,370	2,749
90%	2,883	2,882	2,896	2,866	1,939	1,273	790	489	685	778	1,070	2,323
75%	2,057	1,850	2,288	1,914	1,280	552	479	293	311	347	722	1,280
50%	1,491	1,403	1,645	1,187	569	310	251	159	158	200	378	900
25%	946	1,101	1,114	617	366	218	142	120	96	109	215	648
10%	587	739	937	463	200	114	89	74	64	69	121	324
5%	389	605	610	342	190	96	76	53	55	64	95	207
2%	323	587	504	273	179	68	60	51	42	36	88	146
0%	265	523	416	239	147	68	52	49	29	35	72	129

Monthly Flows (in CFS) for

02447000 - Sipsey River near Pleasant Ridge, Ala. (represents streamflow for 03160107)

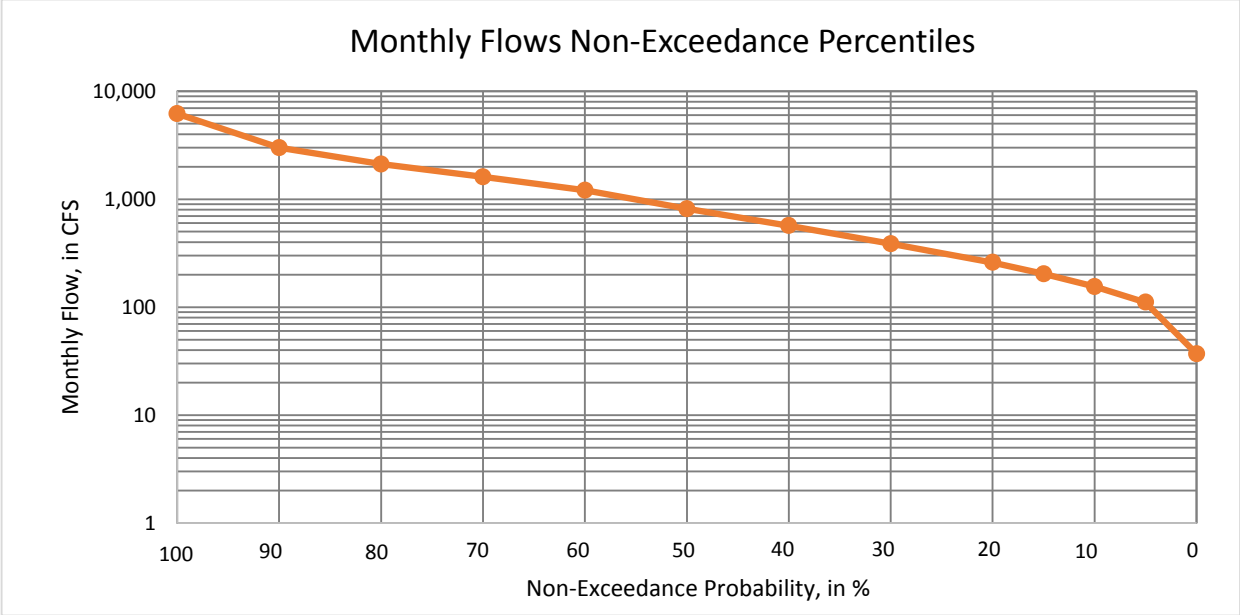
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,524	3,752	3,032	1,219	1,373	556	863	1,347	400	2,311	485	1,132	1,660
1976	2,299	1,781	4,245	1,305	2,916	687	444	218	260	196	324	959	1,306
1977	2,335	1,739	3,859	3,742	287	161	265	264	623	2,072	1,927	1,453	1,558
1978	2,017	879	1,934	660	2,072	946	203	188	112	92	150	608	825
1979	3,981	1,894	3,534	5,353	857	419	477	251	1,582	445	1,492	1,541	1,814
1980	2,344	1,795	5,613	4,972	2,355	611	300	176	148	398	824	1,321	1,739
1981	572	1,355	1,364	2,396	316	335	126	120	75	114	132	482	608
1982	3,002	2,291	1,594	2,616	717	375	375	431	125	208	538	3,868	1,342
1983	1,737	3,926	4,439	4,214	3,325	995	365	228	218	236	725	5,113	2,118
1984	2,453	1,578	2,042	2,959	2,642	366	262	230	94	355	668	1,835	1,291
1985	817	3,072	892	900	1,838	411	364	811	269	501	552	750	918
1986	495	879	1,169	348	296	755	134	98	83	206	580	1,348	531
1987	2,108	2,444	2,775	677	290	251	182	70	60	44	99	217	760
1988	973	1,164	607	969	272	92	106	64	300	523	1,005	952	581
1989	3,761	1,976	3,002	1,783	786	2,194	1,677	290	227	758	1,165	986	1,549
1990	3,838	6,091	3,230	1,176	1,319	962	387	149	102	133	232	2,949	1,690
1991	1,612	3,833	2,619	5,240	6,191	1,792	690	402	362	230	575	1,457	2,070
1992	1,068	1,362	1,519	776	275	399	389	707	989	246	1,476	1,800	914
1993	3,027	1,609	1,560	1,577	1,145	363	412	209	227	125	495	904	969
1994	1,484	3,831	2,901	2,703	526	464	733	531	291	465	620	1,783	1,344
1995	1,515	1,957	3,154	1,969	923	322	266	232	148	643	1,461	1,949	1,208
1996	2,759	2,378	2,189	2,017	665	466	734	541	561	473	1,321	1,796	1,319
1997	2,726	2,273	2,231	870	1,783	2,972	1,273	534	198	335	655	1,201	1,417
1998	4,347	2,307	2,692	2,139	638	297	722	583	161	138	325	1,076	1,283
1999	3,767	2,886	2,104	1,175	799	584	677	114	88	142	196	304	1,061
2000	858	762	2,350	3,779	292	137	69	69	37	47	283	385	752
2001	1,371	2,356	3,366	2,088	563	1,453	283	184	1,025	1,121	551	3,301	1,467
2002	2,005	1,969	1,453	1,298	1,815	290	639	209	297	1,149	2,560	2,189	1,320
2003	1,314	3,978	3,097	1,585	4,431	1,902	1,140	1,224	532	455	702	1,485	1,810
2004	1,442	4,294	2,390	889	537	1,034	1,146	398	428	305	1,466	3,671	1,483
2005	1,263	1,538	1,464	2,291	612	1,866	1,101	347	795	497	319	1,172	1,099
2006	2,470	3,777	2,219	863	783	162	85	102	138	658	1,973	681	1,142
2007	2,261	987	771	411	210	93	203	120	150	89	128	183	466
2008	386	1,650	1,992	871	1,185	437	111	183	155	157	174	2,847	844
2009	4,105	1,077	3,871	2,219	1,807	478	189	426	1,453	3,107	1,826	3,139	1,987
2010	2,071	2,435	2,580	1,534	2,234	586	257	191	107	95	253	690	1,080
2011	1,654	1,116	3,388	3,055	783	167	152	164	1,255	177	316	1,239	1,121
2012	2,605	1,854	1,912	504	423	188	227	288	533	685	300	1,266	897
2013	3,903	2,383	1,977	1,960	1,777	440	1,916	763	248	195	354	1,218	1,428
2014	1,238	2,162	1,376	3,235	1,189	593	297	172	145	275	440	1,637	1,054

Non-Exceedance Percentiles

02447000 - Sipsey River near Pleasant Ridge, Ala. (represents streamflow for 03160107)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	386	762	607	348	210	92	69	64	37	44	99	183	466
5th %	568	879	886	500	275	135	105	70	74	87	132	300	578
10th %	854	1,068	1,345	675	290	162	125	102	87	95	171	472	738
15th %	1,054	1,157	1,441	850	295	185	149	119	101	123	227	670	815
20th %	1,258	1,361	1,508	871	402	282	188	143	111	137	277	738	886
30th %	1,471	1,637	1,927	1,113	597	355	248	181	147	189	322	978	1,028
40th %	1,704	1,830	2,079	1,302	757	406	276	202	159	222	467	1,190	1,113
Median	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294	1,287
60th %	2,339	2,297	2,648	2,045	1,186	567	399	274	278	417	634	1,468	1,329
70th %	2,641	2,399	3,011	2,323	1,779	634	650	400	373	481	755	1,787	1,439
80th %	3,126	3,208	3,257	2,978	1,885	969	733	531	539	646	1,349	1,997	1,579
90th %	3,844	3,842	3,860	3,823	2,669	1,799	1,141	713	992	1,124	1,526	3,155	1,810
Maximum	4,347	6,091	5,613	5,353	6,191	2,972	1,916	1,347	1,582	3,107	2,560	5,113	2,118
Average	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572	1,246

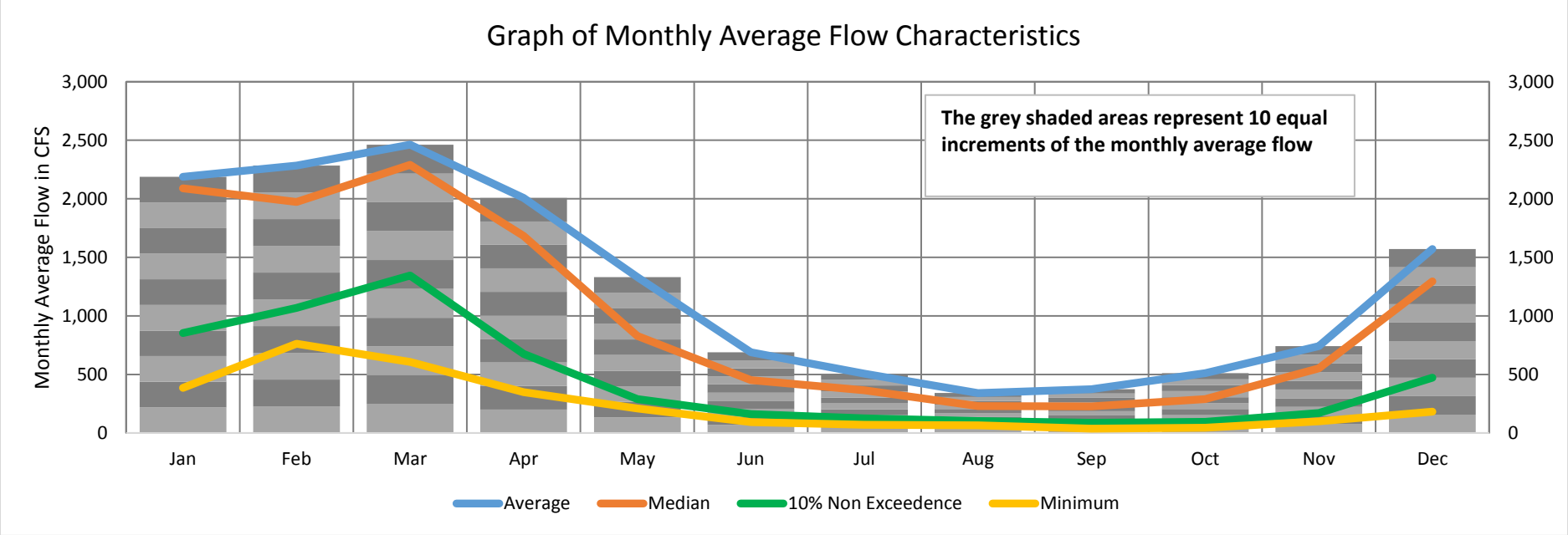
	Flows in CFS
Minimum	36.9
5th %	111
10th %	155
15th %	203
20th %	259
30th %	386
40th %	568
Median	814
60th %	1,208
70th %	1,610
80th %	2,114
90th %	3,002
Maximum	6,191
Average	1,251



Q10/Q50	0.19
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.05
Q5/DA	0.14
Q10/DA	0.20
Q15/DA	0.26
Q20/DA	0.34
Q30/DA	0.50
Q40/DA	0.74
Q50/DA	1.06
Q60/DA	1.57
Q70/DA	2.09
Q80/DA	2.75
Q90/DA	3.90
Qmax/DA	8.05

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

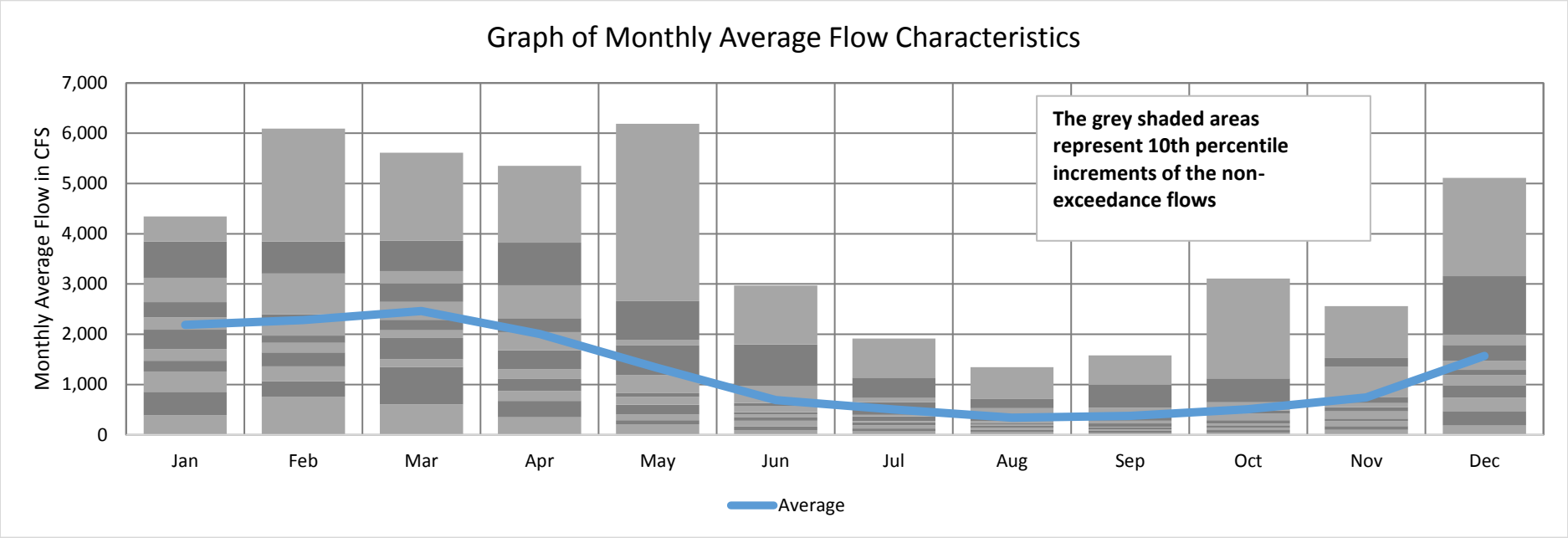
Site #: 02447000 Name: Sipsey River near Pleasant Ridge, Ala. (represents streamflow for 03160107)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572
100%	4,347	6,091	5,613	5,353	6,191	2,972	1,916	1,347	1,582	3,107	2,560	5,113
98%	4,158	4,689	4,697	5,265	4,819	2,365	1,729	1,251	1,481	2,486	2,102	4,142
95%	3,987	3,994	4,255	4,985	3,381	1,916	1,293	831	1,265	2,084	1,929	3,681
90%	3,844	3,842	3,860	3,823	2,669	1,799	1,141	713	992	1,124	1,526	3,155
75%	2,820	2,555	3,111	2,638	1,809	803	698	427	454	507	1,045	1,809
50%	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294
25%	1,356	1,568	1,586	897	534	316	203	170	135	153	312	940
10%	854	1,068	1,345	675	290	162	125	102	87	95	171	472
5%	568	879	886	500	275	135	105	70	74	87	132	300
2%	471	853	735	397	259	93	82	68	55	47	122	210
0%	386	762	607	348	210	92	69	64	37	44	99	183

Site #: 02447000 Name: Sipsey River near Pleasant Ridge, Ala. (represents streamflow for 03160107)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 769 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,188	2,285	2,463	2,008	1,331	690	506	341	375	510	742	1,572
100%	4,347	6,091	5,613	5,353	6,191	2,972	1,916	1,347	1,582	3,107	2,560	5,113
98%	4,158	4,689	4,697	5,265	4,819	2,365	1,729	1,251	1,481	2,486	2,102	4,142
95%	3,987	3,994	4,255	4,985	3,381	1,916	1,293	831	1,265	2,084	1,929	3,681
90%	3,844	3,842	3,860	3,823	2,669	1,799	1,141	713	992	1,124	1,526	3,155
75%	2,820	2,555	3,111	2,638	1,809	803	698	427	454	507	1,045	1,809
50%	2,089	1,973	2,290	1,684	828	452	365	229	227	290	552	1,294
25%	1,356	1,568	1,586	897	534	316	203	170	135	153	312	940
10%	854	1,068	1,345	675	290	162	125	102	87	95	171	472
5%	568	879	886	500	275	135	105	70	74	87	132	300
2%	471	853	735	397	259	93	82	68	55	47	122	210
0%	386	762	607	348	210	92	69	64	37	44	99	183

Monthly Flows (in CFS) for

02447025 - Tombigbee River at Heflin Lock and Dam near Gainesville, Ala.

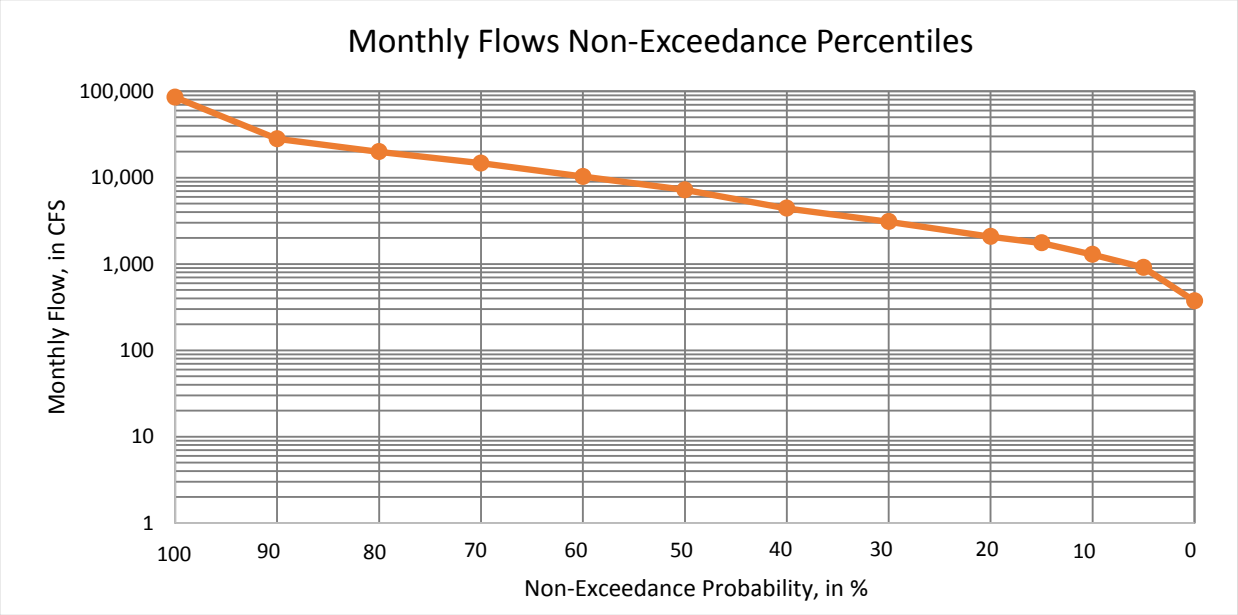
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	37,182	28,522	37,443	23,176	11,064	7,147	4,372	8,002	3,771	13,763	7,413	10,143	15,958
1976	18,467	18,990	31,875	21,325	13,302	4,912	2,555	2,065	3,649	2,078	2,623	7,663	10,754
1977	17,074	7,912	41,330	27,656	3,591	2,070	1,762	1,780	2,706	9,315	15,339	19,880	12,579
1978	16,409	8,420	18,536	4,707	28,440	8,527	2,023	1,040	469	495	1,039	4,234	7,903
1979	37,340	17,850	29,750	43,430	11,370	7,429	9,882	2,564	16,710	3,995	17,800	16,630	17,858
1980	21,070	15,950	60,760	57,540	17,800	4,058	1,714	1,027	1,154	2,834	6,154	4,652	16,217
1981	2,481	9,729	10,560	14,180	3,607	3,748	1,285	796	1,103	1,041	846	2,782	4,295
1982	24,910	16,350	12,040	30,310	5,587	3,037	2,995	3,492	1,215	1,860	3,998	43,860	12,470
1983	29,600	42,000	37,760	60,770	48,230	10,720	4,009	1,093	1,519	1,400	9,596	52,060	24,802
1984	21,050	13,900	18,310	25,110	27,880	2,357	1,703	1,506	513	6,816	7,471	8,365	11,253
1985	7,183	29,910	6,842	7,889	14,380	3,859	2,623	3,780	2,038	5,045	4,790	6,243	7,736
1986	3,087	7,126	10,520	2,537	3,456	7,548	1,235	1,052	899	2,162	15,520	15,340	5,855
1987	17,360	20,620	27,970	4,582	2,891	3,142	1,627	705	870	601	1,760	3,681	7,090
1988	7,265	9,607	6,236	10,080	1,811	757	1,136	747	2,455	4,308	8,234	7,292	4,952
1989	38,290	25,840	31,450	13,690	10,480	21,930	17,460	3,156	3,086	7,226	10,100	7,205	15,783
1990	36,170	55,070	28,080	7,525	10,540	6,629	2,057	910	797	1,094	1,780	37,770	15,504
1991	14,310	51,990	24,560	53,170	85,110	22,630	3,013	2,702	2,026	1,536	2,932	27,660	24,121
1992	6,804	11,830	11,960	6,580	1,665	3,924	2,713	4,410	3,863	1,378	13,290	14,250	6,848
1993	21,740	15,090	13,120	17,040	13,390	2,965	1,891	3,242	1,807	1,463	4,003	7,067	8,538
1994	15,360	36,710	30,940	18,720	4,038	10,850	16,550	3,030	2,837	5,494	6,911	16,420	13,847
1995	17,100	19,300	37,620	26,670	7,081	3,486	2,766	3,817	964	2,680	7,372	16,480	12,080
1996	26,600	16,850	20,750	21,610	3,873	3,864	4,175	3,667	3,816	2,404	7,535	23,470	11,533
1997	27,930	21,700	24,090	8,443	23,250	34,660	7,585	3,353	1,914	3,773	4,400	11,520	14,347
1998	38,010	24,280	25,380	12,660	6,002	2,643	5,252	4,726	1,079	1,170	2,120	14,760	11,477
1999	36,210	22,820	22,190	13,020	8,424	6,972	5,533	707	706	988	1,443	2,076	10,036
2000	4,479	4,178	9,739	37,710	1,856	1,474	686	485	371	524	3,553	5,727	5,859
2001	19,140	25,730	26,710	18,890	3,245	11,240	2,101	2,196	4,737	9,537	4,549	33,500	13,403
2002	27,200	15,050	19,850	14,740	18,750	1,676	2,608	1,185	6,647	10,340	16,360	20,080	12,889
2003	9,090	43,060	24,420	19,170	34,570	14,140	7,387	9,756	4,463	3,409	10,420	11,340	15,755
2004	13,590	37,170	23,290	6,592	4,985	14,670	10,590	2,741	3,602	5,815	20,560	37,410	14,944
2005	11,840	14,480	10,760	19,620	3,784	13,280	8,908	5,792	9,715	1,949	3,084	10,190	9,387
2006	22,690	31,250	14,980	7,219	8,514	1,191	781	748	1,445	5,643	9,437	5,870	9,013
2007	20,720	8,522	5,342	2,731	1,316	763	1,683	570	1,133	1,875	1,641	2,134	4,026
2008	3,312	13,080	11,870	10,500	10,210	2,545	781	2,320	2,147	2,009	1,726	29,490	7,489
2009	32,200	7,952	49,310	13,300	25,760	3,924	1,631	2,642	19,640	30,290	12,020	23,590	18,678
2010	23,000	21,750	16,760	9,647	19,710	4,254	1,977	2,064	2,158	868	2,346	3,921	8,982
2011	11,120	7,096	24,760	34,500	8,910	1,973	1,479	1,576	6,804	962	2,280	12,310	9,480
2012	15,800	14,880	19,130	6,108	3,087	1,508	1,995	1,974	3,690	4,571	1,625	13,150	7,275
2013	39,470	24,380	22,180	21,240	15,650	4,144	5,433	2,803	1,750	1,243	2,796	10,910	12,627
2014	8,708	19,560	11,590	36,220	7,703	10,490	3,923	1,276	1,156	5,299	5,146	16,320	10,514

Non-Exceedance Percentiles

02447025 - Tombigbee River at Heflin Lock and Dam near Gainesville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,481	4,178	5,342	2,537	1,316	757	686	485	371	495	846	2,076	4,026
5th %	3,301	7,125	6,812	4,489	1,804	1,170	781	698	511	597	1,423	2,750	4,919
10th %	6,572	7,948	10,442	5,968	2,788	1,505	1,225	743	788	953	1,639	3,897	5,859
15th %	7,253	8,507	10,730	6,590	3,221	1,928	1,450	789	895	1,033	1,755	4,589	7,054
20th %	9,014	9,705	11,814	7,464	3,564	2,300	1,630	1,004	1,056	1,155	2,052	5,841	7,446
30th %	14,094	14,306	14,422	9,950	3,989	3,015	1,748	1,157	1,155	1,444	2,744	7,266	8,849
40th %	16,808	15,606	18,893	13,188	6,649	3,815	2,012	1,698	1,658	1,919	3,820	10,171	9,813
Median	18,803	18,420	22,185	15,890	8,712	3,991	2,581	2,130	2,032	2,283	4,670	11,915	11,365
60th %	21,338	21,052	24,476	19,350	10,750	5,599	2,858	2,666	2,555	3,555	7,095	14,992	12,514
70th %	25,417	24,310	27,088	22,080	13,687	7,465	4,059	3,068	3,616	4,713	7,745	16,525	13,536
80th %	30,120	28,799	31,042	28,187	18,942	10,746	5,453	3,527	3,825	5,677	10,164	23,494	15,555
90th %	37,198	37,653	37,634	38,282	27,936	14,193	9,005	4,442	6,663	9,337	15,357	33,891	16,381
Maximum	39,470	55,070	60,760	60,770	85,110	34,660	17,460	9,756	19,640	30,290	20,560	52,060	24,802
Average	20,034	20,913	22,769	19,765	13,383	6,928	3,997	2,537	3,286	4,231	6,550	15,436	11,604

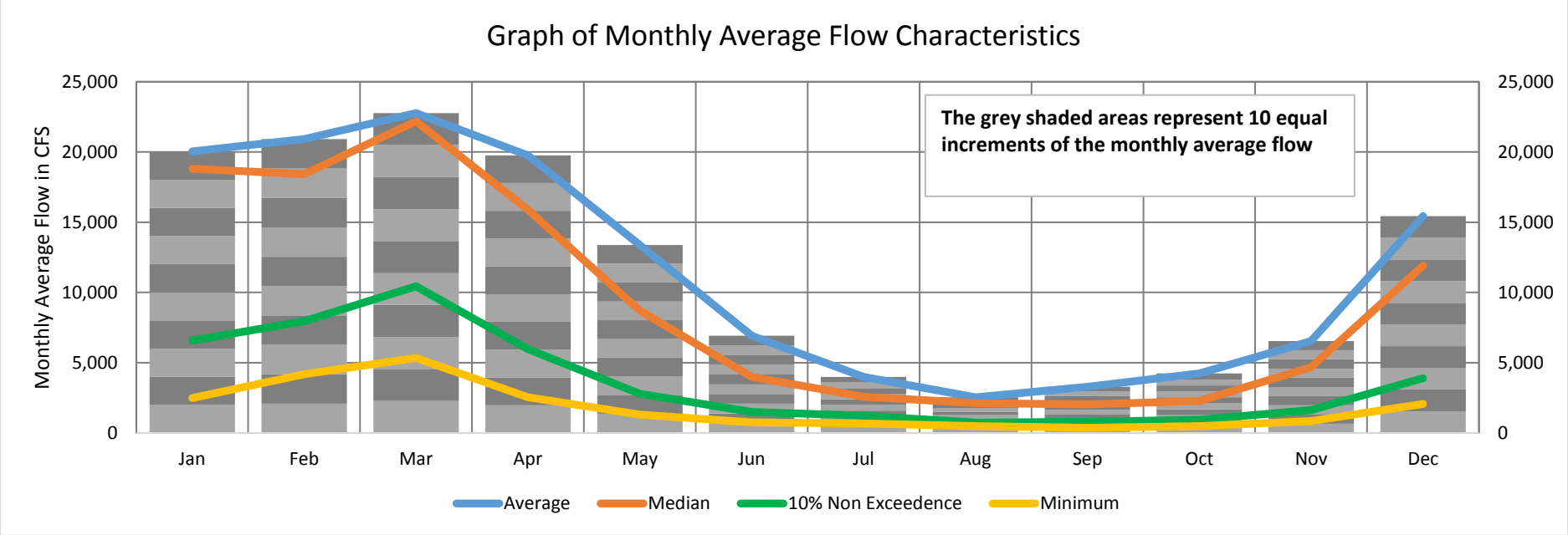
	Flows in CFS
Minimum	371.4
5th %	910
10th %	1,284
15th %	1,746
20th %	2,069
30th %	3,087
40th %	4,406
Median	7,194
60th %	10,262
70th %	14,691
80th %	19,856
90th %	28,116
Maximum	85,110
Average	11,652



Q10/Q50	0.18
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.05
Q5/DA	0.13
Q10/DA	0.18
Q15/DA	0.24
Q20/DA	0.29
Q30/DA	0.43
Q40/DA	0.61
Q50/DA	1.00
Q60/DA	1.42
Q70/DA	2.03
Q80/DA	2.75
Q90/DA	3.89
Qmax/DA	11.77

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

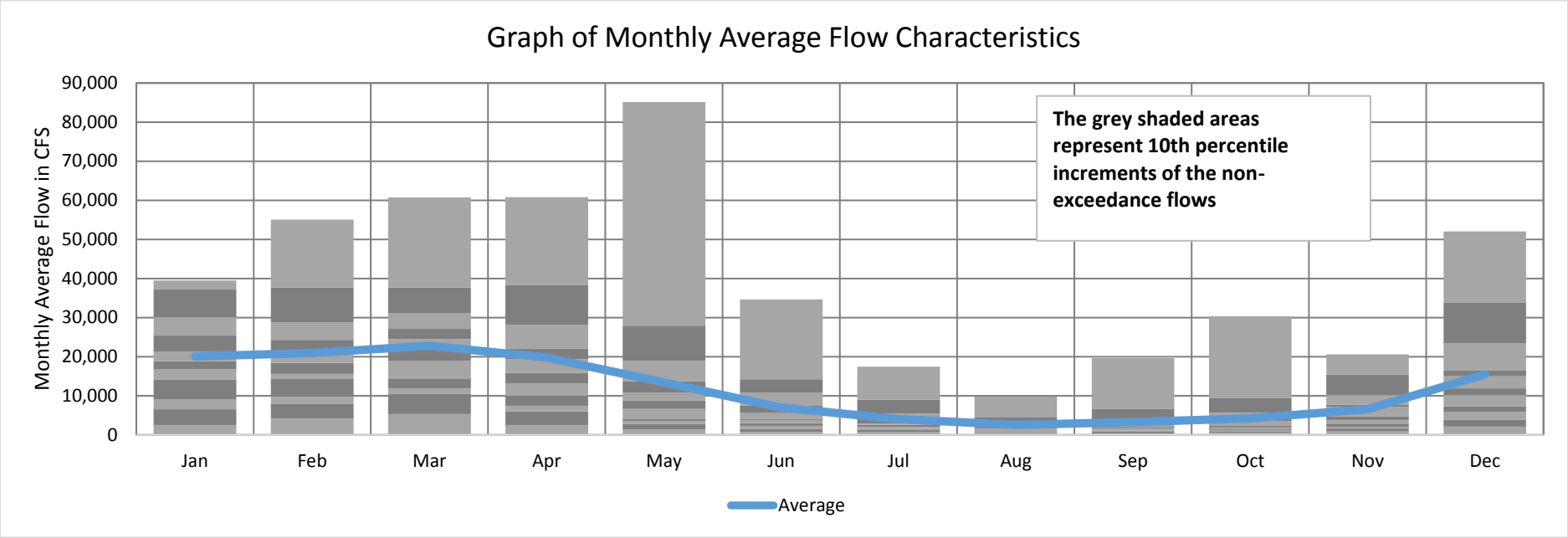
Site #: 02447025 Name: Tombigbee River at Heflin Lock and Dam near Gainesville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	20,034	20,913	22,769	19,765	13,383	6,928	3,997	2,537	3,286	4,231	6,550	15,436
100%	39,470	55,070	60,760	60,770	85,110	34,660	17,460	9,756	19,640	30,290	20,560	52,060
98%	38,550	52,668	51,829	58,251	56,344	25,277	16,750	8,388	17,355	17,399	18,407	45,664
95%	38,024	43,507	41,729	53,389	35,253	21,965	10,888	5,903	10,065	10,511	16,432	38,075
90%	37,198	37,653	37,634	38,282	27,936	14,193	9,005	4,442	6,663	9,337	15,357	33,891
75%	27,383	25,758	28,498	25,500	16,188	9,018	4,592	3,270	3,710	5,348	9,477	19,930
50%	18,803	18,420	22,185	15,890	8,712	3,991	2,581	2,130	2,032	2,283	4,670	11,915
25%	11,660	12,768	12,020	8,305	3,740	2,619	1,698	1,049	1,126	1,344	2,330	6,861
10%	6,572	7,948	10,442	5,968	2,788	1,505	1,225	743	788	953	1,639	3,897
5%	3,301	7,125	6,812	4,489	1,804	1,170	781	698	511	597	1,423	2,750
2%	2,954	6,454	6,039	2,688	1,588	762	760	551	448	518	997	2,121
0%	2,481	4,178	5,342	2,537	1,316	757	686	485	371	495	846	2,076

Site #: 02447025 Name: Tombigbee River at Heflin Lock and Dam near Gainesville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 7,230 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	20,034	20,913	22,769	19,765	13,383	6,928	3,997	2,537	3,286	4,231	6,550	15,436
100%	39,470	55,070	60,760	60,770	85,110	34,660	17,460	9,756	19,640	30,290	20,560	52,060
98%	38,550	52,668	51,829	58,251	56,344	25,277	16,750	8,388	17,355	17,399	18,407	45,664
95%	38,024	43,507	41,729	53,389	35,253	21,965	10,888	5,903	10,065	10,511	16,432	38,075
90%	37,198	37,653	37,634	38,282	27,936	14,193	9,005	4,442	6,663	9,337	15,357	33,891
75%	27,383	25,758	28,498	25,500	16,188	9,018	4,592	3,270	3,710	5,348	9,477	19,930
50%	18,803	18,420	22,185	15,890	8,712	3,991	2,581	2,130	2,032	2,283	4,670	11,915
25%	11,660	12,768	12,020	8,305	3,740	2,619	1,698	1,049	1,126	1,344	2,330	6,861
10%	6,572	7,948	10,442	5,968	2,788	1,505	1,225	743	788	953	1,639	3,897
5%	3,301	7,125	6,812	4,489	1,804	1,170	781	698	511	597	1,423	2,750
2%	2,954	6,454	6,039	2,688	1,588	762	760	551	448	518	997	2,121
0%	2,481	4,178	5,342	2,537	1,316	757	686	485	371	495	846	2,076

Monthly Flows (in CFS) for
02448500 - Noxubee River near Geiger, Ala.

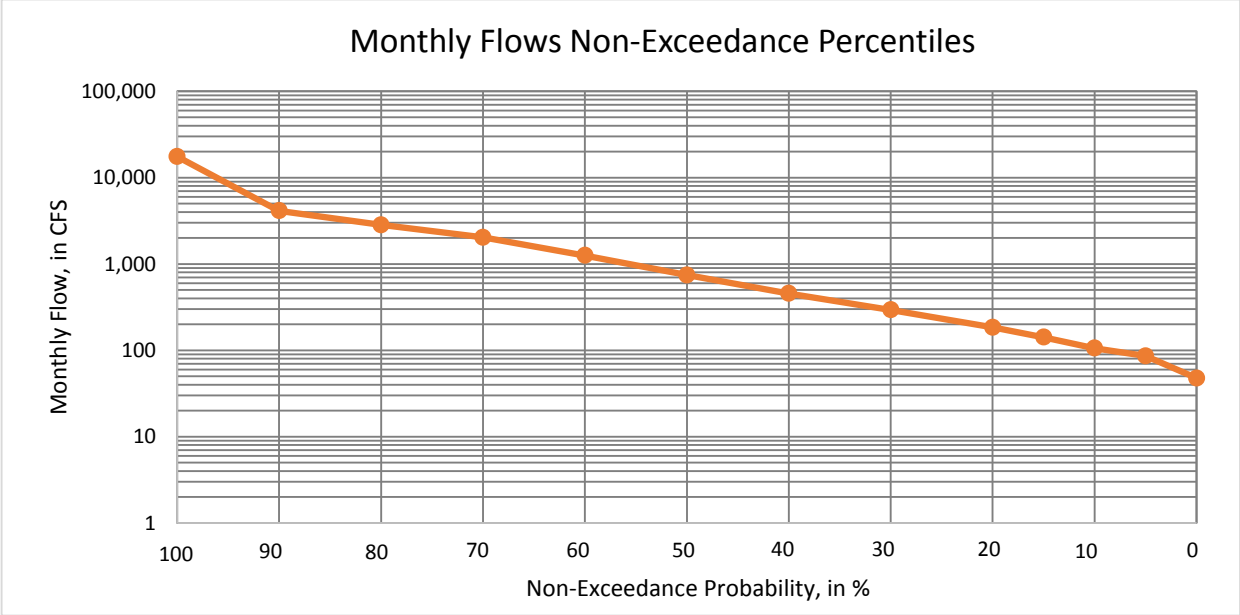
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,970	4,687	5,383	2,482	1,362	809	590	1,121	232	2,515	312	1,435	2,151
1976	2,450	1,985	8,160	3,631	1,372	426	369	170	348	115	155	1,196	1,702
1977	3,403	1,189	6,346	6,745	281	129	334	192	1,281	1,624	2,425	2,626	2,218
1978	2,834	1,098	2,169	354	4,038	734	193	119	87	81	81	242	1,009
1979	5,969	3,563	5,766	17,520	852	251	930	407	3,012	254	1,642	1,949	3,486
1980	3,752	2,790	9,230	9,530	2,919	550	258	149	111	332	744	310	2,552
1981	216	984	1,541	2,381	180	338	96	96	83	80	75	264	522
1982	1,750	2,320	1,785	3,612	471	660	263	427	96	202	288	6,464	1,526
1983	4,103	9,415	7,484	9,491	7,754	1,911	546	151	196	128	1,172	5,002	3,909
1984	3,334	2,604	2,680	2,768	3,370	189	214	489	93	266	920	1,064	1,496
1985	697	5,324	903	933	1,184	173	294	343	197	539	484	868	965
1986	317	581	1,497	271	456	569	95	97	95	357	1,655	2,004	667
1987	2,969	3,508	4,662	587	413	601	147	109	87	55	78	202	1,107
1988	564	949	692	1,382	114	61	339	92	137	472	1,627	743	593
1989	4,801	2,890	4,307	2,497	2,709	2,424	3,252	384	379	901	2,141	1,530	2,352
1990	7,528	8,951	3,874	899	513	573	202	113	76	76	108	2,118	2,048
1991	1,296	6,664	3,561	6,768	10,340	2,153	317	381	470	144	267	823	2,737
1992	1,162	2,145	888	1,089	167	533	174	749	294	79	2,063	2,096	943
1993	4,942	3,581	2,015	2,638	2,002	283	158	453	100	83	393	516	1,419
1994	2,058	4,613	3,229	3,409	261	534	1,252	219	352	756	543	2,410	1,616
1995	2,513	2,171	4,956	3,233	744	399	175	273	101	556	1,126	2,540	1,564
1996	3,886	2,728	2,844	2,120	251	247	305	247	177	125	284	1,326	1,205
1997	3,752	4,569	2,433	1,524	1,203	2,794	821	553	154	241	609	2,285	1,727
1998	6,164	3,563	2,890	1,518	363	185	432	242	83	81	110	922	1,371
1999	3,805	4,370	2,726	728	260	312	308	95	82	106	78	167	1,068
2000	368	210	455	4,482	142	127	86	61	48	50	358	439	564
2001	2,156	2,456	5,193	1,353	180	710	144	272	1,271	1,620	574	3,093	1,585
2002	2,722	2,914	2,853	1,557	260	131	202	165	1,262	2,517	2,998	3,437	1,745
2003	1,561	7,484	4,640	3,954	1,392	1,837	1,472	553	254	342	871	1,186	2,089
2004	1,913	7,156	2,290	808	452	1,134	1,832	322	301	330	2,893	4,243	1,938
2005	1,371	3,724	2,227	3,603	486	3,142	2,442	762	1,915	213	126	663	1,701
2006	2,545	5,222	4,508	521	908	115	118	104	93	1,170	914	678	1,387
2007	2,752	1,257	479	166	96	76	221	90	87	79	76	122	456
2008	235	2,272	1,659	1,345	1,114	327	79	786	294	435	93	5,290	1,159
2009	4,814	581	5,928	2,365	3,247	687	163	341	4,095	5,805	1,708	4,126	2,847
2010	3,957	3,770	3,142	1,144	1,708	419	199	150	94	75	171	420	1,259
2011	830	1,179	4,121	3,967	609	132	232	134	863	100	92	1,249	1,124
2012	1,662	2,126	3,534	615	335	151	852	472	982	521	136	2,283	1,138
2013	6,336	5,327	3,957	3,753	1,546	590	430	353	287	114	555	1,543	2,047
2014	1,156	3,534	2,757	7,339	1,820	1,403	240	121	104	193	296	1,408	1,676

Non-Exceedance Percentiles

02448500 - Noxubee River near Geiger, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	216	210	455	166	96	61	79	61	48	50	75	122	456
5th %	313	581	681	350	141	113	94	92	82	74	78	200	562
10th %	544	980	902	581	179	128	116	96	83	78	81	262	660
15th %	810	1,167	1,534	711	241	132	147	103	87	79	92	404	962
20th %	1,161	1,243	1,760	881	260	169	162	112	92	81	110	500	1,056
30th %	1,632	2,163	2,271	1,285	354	250	197	144	96	112	167	799	1,153
40th %	2,117	2,545	2,745	1,522	465	334	218	168	108	137	293	1,137	1,381
Median	2,634	2,902	3,016	2,373	676	479	261	245	187	227	438	1,367	1,545
60th %	3,115	3,563	3,686	2,690	1,142	570	312	329	267	331	588	1,705	1,686
70th %	3,768	3,950	4,367	3,606	1,378	668	387	381	315	446	915	2,168	1,803
80th %	4,243	4,794	5,003	3,957	1,856	874	636	457	549	596	1,630	2,557	2,101
90th %	5,070	6,713	5,970	6,825	3,259	1,935	1,274	573	1,272	1,620	2,071	4,138	2,571
Maximum	7,528	9,415	9,230	17,520	10,340	3,142	3,252	1,121	4,095	5,805	2,998	6,464	3,909
Average	2,840	3,411	3,494	3,127	1,447	720	519	309	507	593	781	1,782	1,617

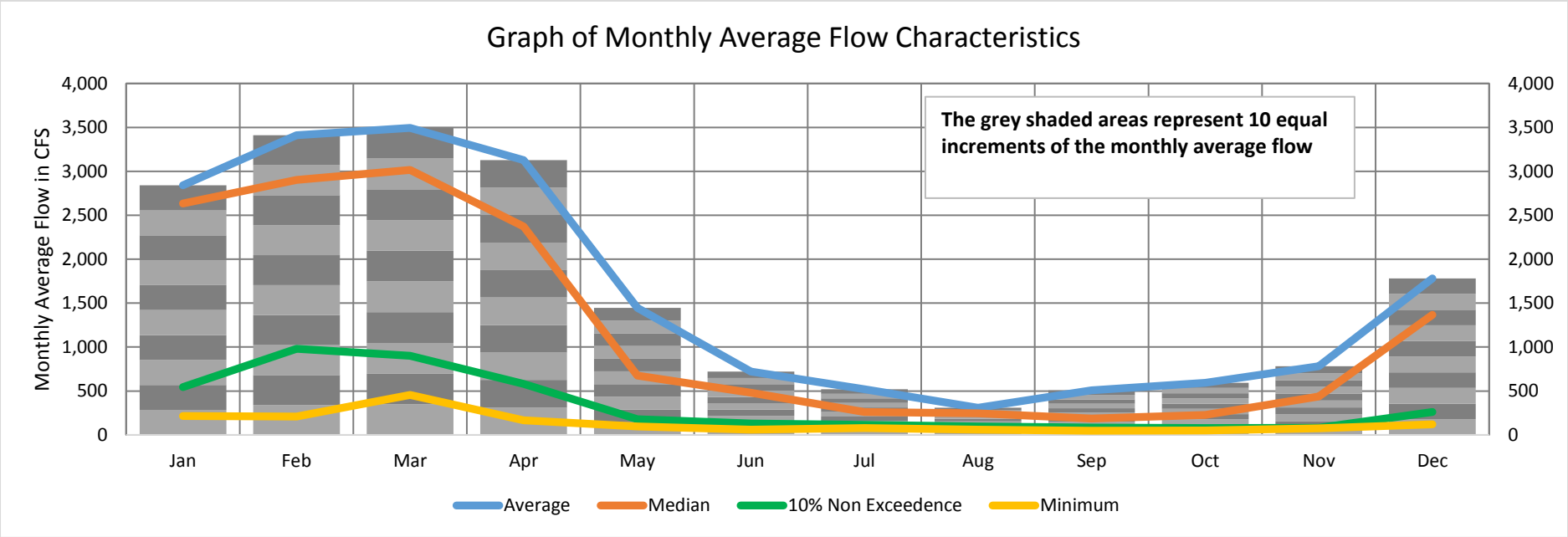
	Flows in CFS
Minimum	47.7
5th %	86
10th %	106
15th %	141
20th %	184
30th %	294
40th %	454
Median	744
60th %	1,254
70th %	2,028
80th %	2,836
90th %	4,122
Maximum	17,520
Average	1,628



Q10/Q50	0.14
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.04
Q5/DA	0.08
Q10/DA	0.10
Q15/DA	0.13
Q20/DA	0.17
Q30/DA	0.27
Q40/DA	0.41
Q50/DA	0.68
Q60/DA	1.14
Q70/DA	1.85
Q80/DA	2.59
Q90/DA	3.76
Qmax/DA	15.97

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

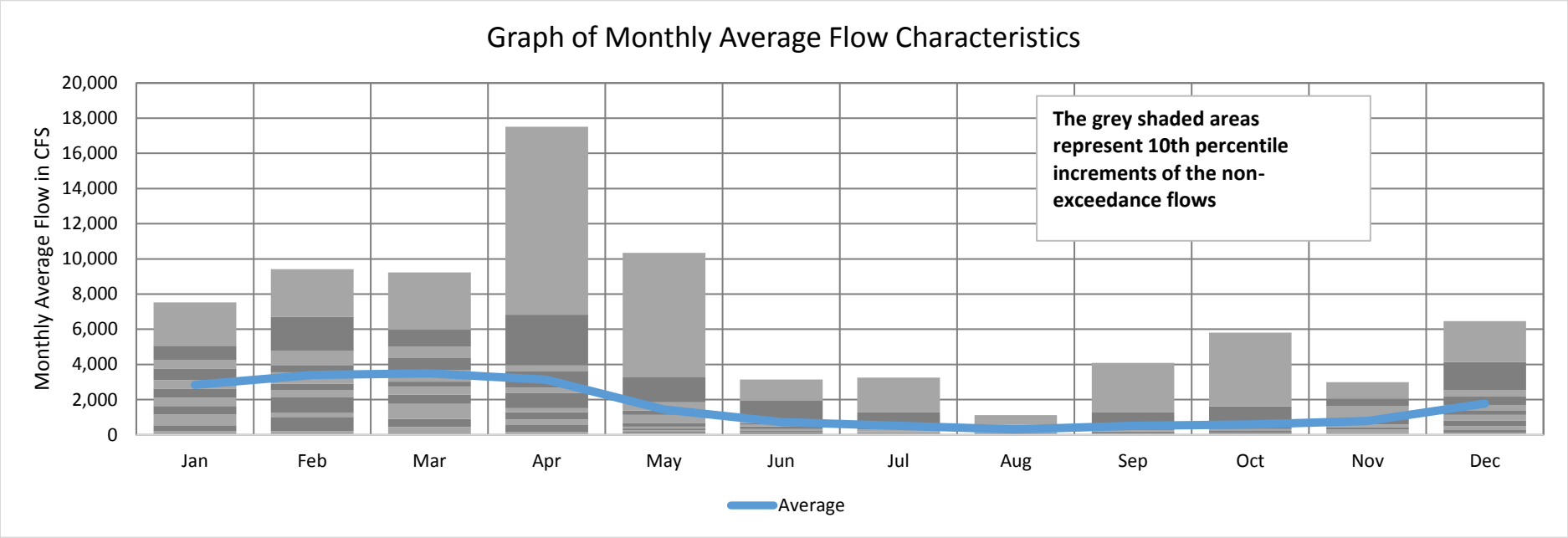
Site #: 02448500 Name: Noxubee River near Geiger, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,840	3,411	3,494	3,127	1,447	720	519	309	507	593	781	1,782
100%	7,528	9,415	9,230	17,520	10,340	3,142	3,252	1,121	4,095	5,805	2,998	6,464
98%	6,598	9,053	8,395	11,288	8,323	2,871	2,620	860	3,250	3,240	2,916	5,548
95%	6,173	7,557	7,518	9,493	4,224	2,443	1,863	763	1,970	2,515	2,448	5,016
90%	5,070	6,713	5,970	6,825	3,259	1,935	1,274	573	1,272	1,620	2,071	4,138
75%	3,904	4,580	4,646	3,662	1,587	716	460	412	358	526	1,138	2,316
50%	2,634	2,902	3,016	2,373	676	479	261	245	187	227	438	1,367
25%	1,352	2,091	2,131	1,050	276	188	175	120	94	96	134	674
10%	544	980	902	581	179	128	116	96	83	78	81	262
5%	313	581	681	350	141	113	94	92	82	74	78	200
2%	231	499	474	248	110	73	85	83	69	54	76	157
0%	216	210	455	166	96	61	79	61	48	50	75	122

Site #: 02448500 Name: Noxubee River near Geiger, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,097 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,840	3,411	3,494	3,127	1,447	720	519	309	507	593	781	1,782
100%	7,528	9,415	9,230	17,520	10,340	3,142	3,252	1,121	4,095	5,805	2,998	6,464
98%	6,598	9,053	8,395	11,288	8,323	2,871	2,620	860	3,250	3,240	2,916	5,548
95%	6,173	7,557	7,518	9,493	4,224	2,443	1,863	763	1,970	2,515	2,448	5,016
90%	5,070	6,713	5,970	6,825	3,259	1,935	1,274	573	1,272	1,620	2,071	4,138
75%	3,904	4,580	4,646	3,662	1,587	716	460	412	358	526	1,138	2,316
50%	2,634	2,902	3,016	2,373	676	479	261	245	187	227	438	1,367
25%	1,352	2,091	2,131	1,050	276	188	175	120	94	96	134	674
10%	544	980	902	581	179	128	116	96	83	78	81	262
5%	313	581	681	350	141	113	94	92	82	74	78	200
2%	231	499	474	248	110	73	85	83	69	54	76	157
0%	216	210	455	166	96	61	79	61	48	50	75	122

Monthly Flows (in CFS) for
02448900 - Bodka Creek near Geiger, Ala.

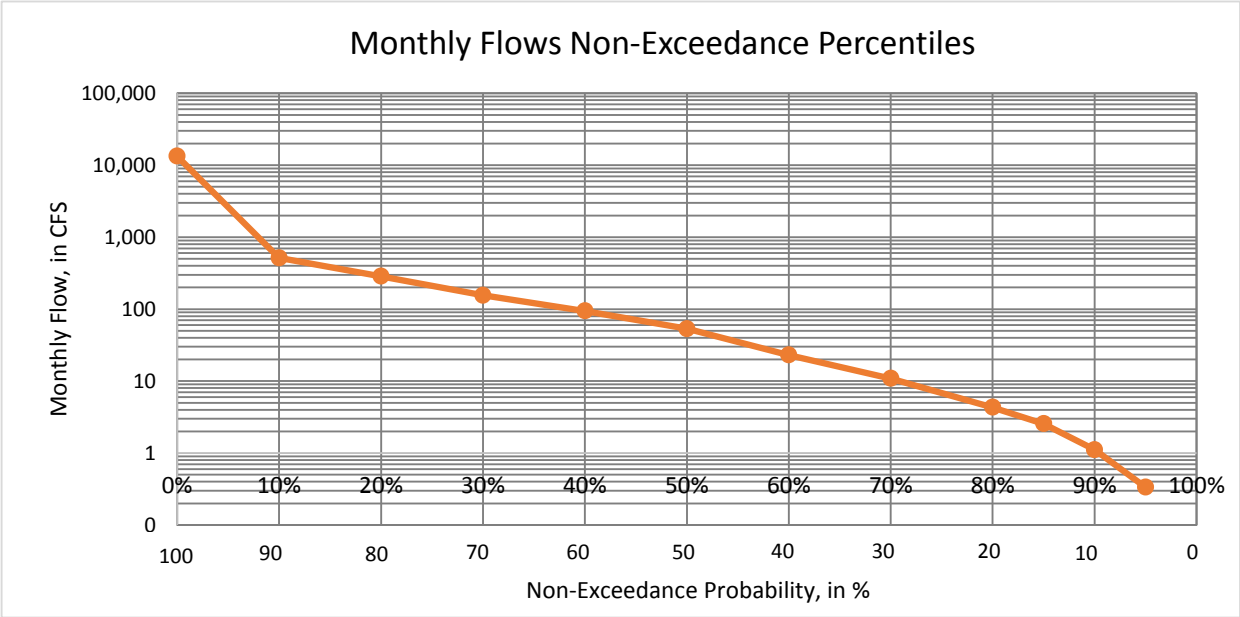
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	682	623	776	271	141	78	51	114	8	275	16	149	264
1976	267	211	1,696	433	142	30	23	3	21	1	3	122	248
1977	397	122	1,033	1,157	13	1	19	5	132	170	264	289	301
1978	316	111	233	21	501	69	5	1	0	0	0	9	106
1979	926	422	872	13,289	83	10	92	28	341	10	172	207	1,356
1980	79	7	16	81	7	4	12	19	60	76	80	128	48
1981	166	19	4	4	3	4	24	32	59	129	77	81	51
1982	180	16	7	57	8	9	6	38	60	116	83	94	57
1983	22	92	131	20	7	2	5	11	28	166	86	111	57
1984	64	8	4	14	15	1	1	4	45	164	95	70	41
1985	40	18	11	9	0	0	1	1	5	17	11	41	13
1986	143	1	1	0	0	0	0	4	5	47	90	125	35
1987	64	9	62	4	1	14	21	6	95	88	67	64	41
1988	41	53	2	9	1	7	27	83	83	36	171	119	53
1989	65	130	56	34	40	8	11	39	54	58	169	90	62
1990	18	7	54	36	8	10	10	55	152	0	0	104	38
1991	125	983	563	938	1,296	87	5	2	3	1	20	39	334
1992	167	396	49	230	7	125	4	150	11	2	335	302	146
1993	929	479	456	209	267	28	3	97	1	2	104	129	225
1994	676	763	613	338	4	58	184	26	2	28	20	296	248
1995	153	405	806	355	23	19	0	0	0	50	137	304	187
1996	723	431	867	253	13	21	24	37	6	2	12	60	204
1997	450	776	235	569	102	377	76	23	1	12	170	550	274
1998	1,561	538	335	424	11	3	11	22	0	0	1	58	246
1999	837	421	542	45	11	4	2	0	0	0	0	1	155
2000	30	19	66	523	0	1	0	0	0	0	11	149	66
2001	420	274	719	305	9	199	4	8	131	328	226	546	264
2002	604	372	261	35	1	4	5	24	320	358	106	631	227
2003	126	993	339	1,222	228	246	286	49	9	47	186	112	314
2004	295	1,420	215	75	113	95	164	46	35	104	546	443	288
2005	140	478	312	648	161	654	455	109	35	2	2	10	248
2006	187	458	448	21	220	4	3	4	2	126	85	144	140
2007	357	160	20	11	2	3	27	2	0	2	1	13	49
2008	24	586	203	131	196	18	3	54	10	1	0	235	119
2009	275	84	766	182	127	5	30	21	340	235	167	512	230
2010	473	501	1,025	44	152	14	16	1	1	0	14	8	187
2011	133	222	768	231	10	0	18	4	30	0	1	84	125
2012	286	356	705	12	51	10	80	19	14	8	1	454	167
2013	713	1,067	455	399	234	15	121	33	24	2	86	332	285
2014	141	547	539	1,295	52	4	7	2	0	0	24	467	253

Non-Exceedance Percentiles

02448900 - Bodka Creek near Geiger, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	18	1	1	0	0	0	0	0	0	0	0	1	13
5th %	24	7	4	4	0	0	0	0	0	0	0	9	38
10th %	39	9	7	9	1	1	1	1	0	0	0	13	41
15th %	60	17	16	12	2	2	2	2	0	0	1	41	49
20th %	65	19	43	19	4	3	3	2	1	1	2	59	52
30th %	131	105	65	34	7	4	5	4	3	2	12	83	65
40th %	149	191	226	52	11	6	6	7	7	2	20	108	134
Median	183	364	323	157	14	10	11	20	12	14	78	124	177
60th %	289	421	455	240	51	15	20	25	29	47	86	146	225
70th %	404	478	578	343	117	23	25	34	48	80	104	251	248
80th %	619	554	767	451	153	70	56	47	65	126	169	310	264
90th %	734	796	868	960	229	133	126	84	134	177	190	472	289
Maximum	1,561	1,420	1,696	13,289	1,296	654	455	150	341	358	546	631	1,356
Average	332	364	407	598	106	56	46	29	53	67	91	192	194

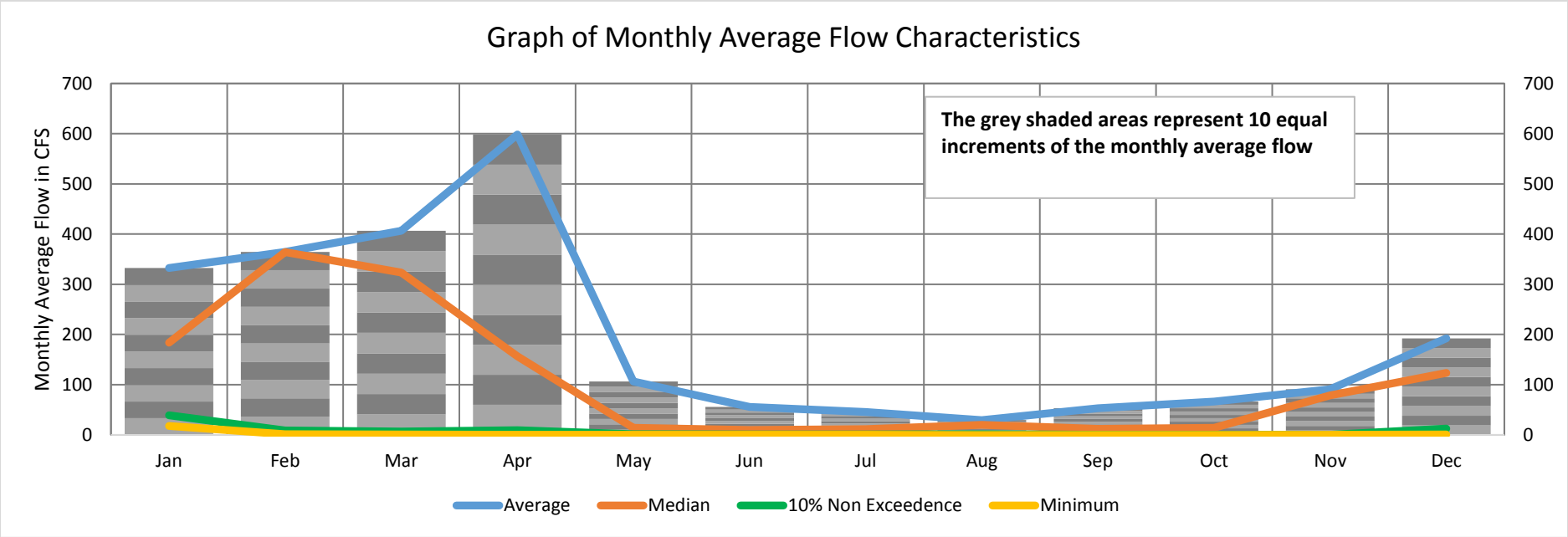
	Flows in CFS
Minimum	0.0
5th %	0
10th %	1
15th %	3
20th %	4
30th %	11
40th %	23
Median	53
60th %	94
70th %	155
80th %	286
90th %	513
Maximum	13,289
Average	195



Q10/Q50	0.02
Q10/Q90	0.00
	CFSM*
Qmin/DA	0.00
Q5/DA	0.00
Q10/DA	0.01
Q15/DA	0.02
Q20/DA	0.03
Q30/DA	0.07
Q40/DA	0.15
Q50/DA	0.34
Q60/DA	0.60
Q70/DA	0.98
Q80/DA	1.81
Q90/DA	3.25
Qmax/DA	84.11

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

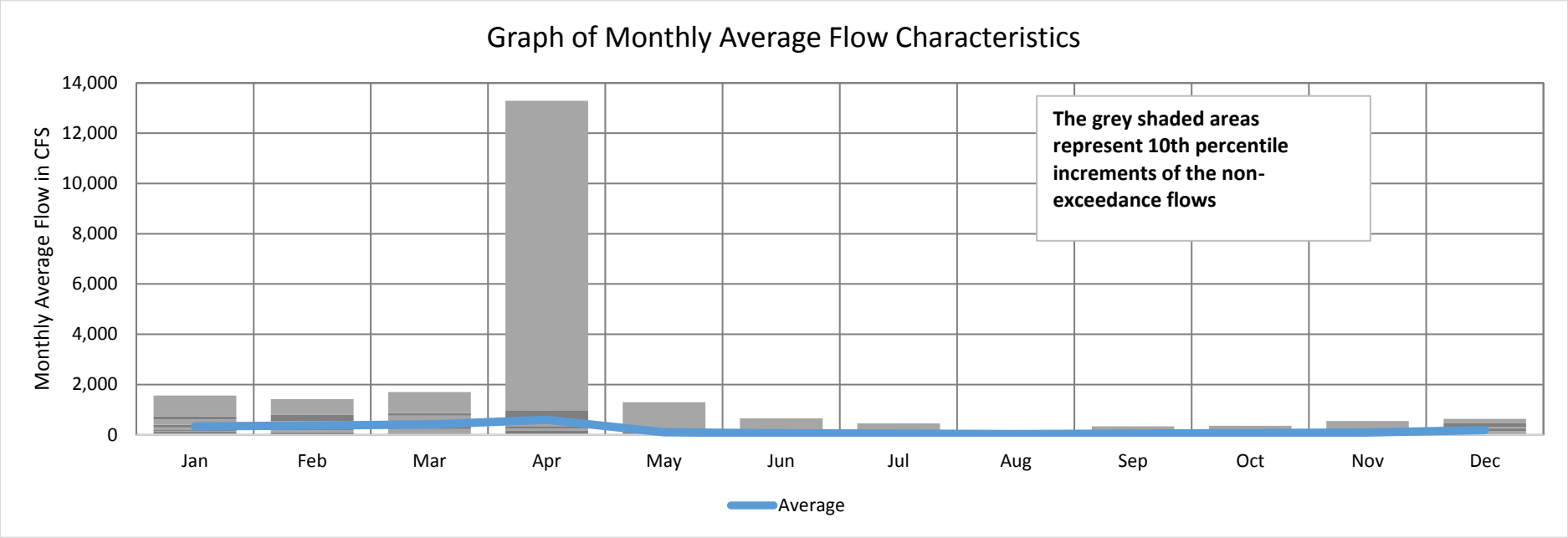
Site #: 02448900 Name: Bodka Creek near Geiger, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	332	364	407	598	106	56	46	29	53	67	91	192
100%	1,561	1,420	1,696	13,289	1,296	654	455	150	341	358	546	631
98%	1,068	1,145	1,179	3,934	676	438	323	122	340	334	381	568
95%	926	997	1,025	1,226	279	252	189	109	321	278	267	546
90%	734	796	868	960	229	133	126	84	134	177	190	472
75%	456	510	709	405	141	37	28	39	60	107	144	298
50%	183	364	323	157	14	9.8	11	20	12	14	78	124
25%	114	76	55	21	6.5	3.6	4.1	3.7	1.4	0.9	8.7	69
10%	39	9.1	6.9	9.2	1.2	1.1	0.7	1.3	0.3	0.2	0.5	13
5%	24	7.3	4.0	3.9	0.5	0.4	0.3	0.4	0.1	0.0	0.2	9.1
2%	21	5.5	2.0	3.0	0.3	0.3	0.3	0.2	0.0	0.0	0.2	6.7
0%	18	1.5	0.8	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.1	0.9

Site #: 02448900 Name: Bodka Creek near Geiger, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 158 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	332	364	407	598	106	56	46	29	53	67	91	192
100%	1,561	1,420	1,696	13,289	1,296	654	455	150	341	358	546	631
98%	1,068	1,145	1,179	3,934	676	438	323	122	340	334	381	568
95%	926	997	1,025	1,226	279	252	189	109	321	278	267	546
90%	734	796	868	960	229	133	126	84	134	177	190	472
75%	456	510	709	405	141	37	28	39	60	107	144	298
50%	183	364	323	157	14	9.8	11	20	12	14	78	124
25%	114	76	55	21	6.5	3.6	4.1	3.7	1.4	0.9	8.7	69
10%	39	9.1	6.9	9.2	1.2	1.1	0.7	1.3	0.3	0.2	0.5	13
5%	24	7.3	4.0	3.9	0.5	0.4	0.3	0.4	0.1	0.0	0.2	9.1
2%	21	5.5	2.0	3.0	0.3	0.3	0.3	0.2	0.0	0.0	0.2	6.7
0%	18	1.5	0.8	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.1	0.9

Monthly Flows (in CFS) for
02449245 - Brush Creek near Eutaw, Ala.

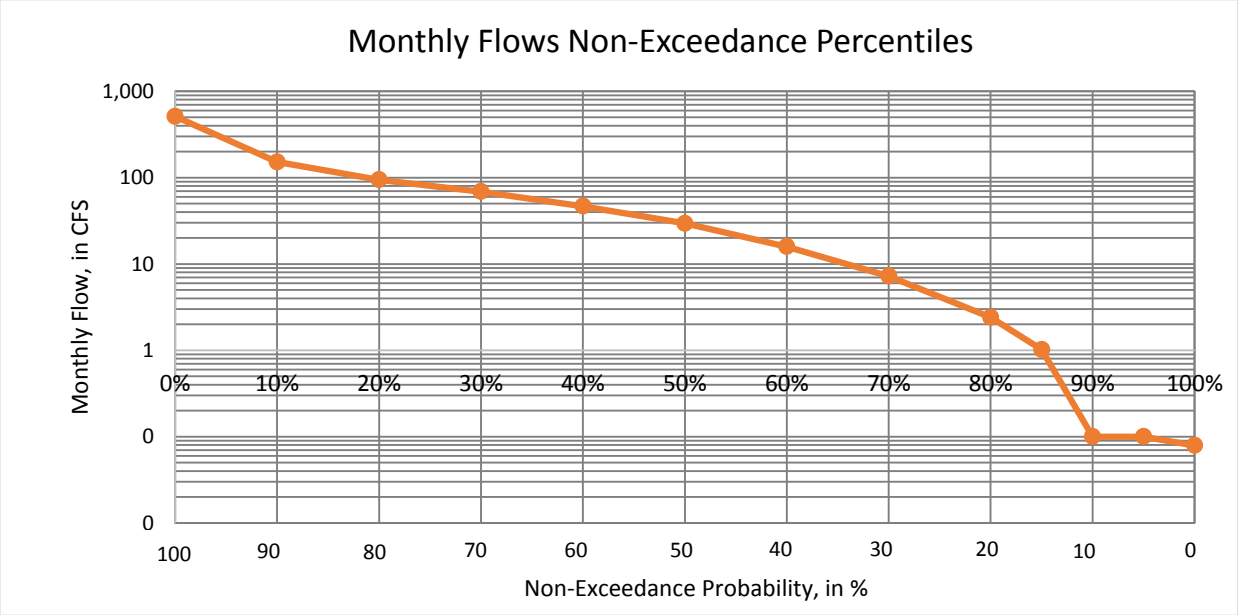
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975						37	36	28	8	80	14	47	
1976	92	57	491	56	158	18	5	6	6	1	5	24	77
1977	134	72	420	150	6	1	7	2	8	61	75	43	82
1978	105	56	82	21	204	43	1	2	2	0	0	17	45
1979	138	136	189	460	36	11	26	22	117	7	77	36	104
1980	123	81	410	270	110	18	3	1	0	7	10	6	87
1981	7	47	115	102	12	49	1	0	0	1	4	21	30
1982	121	194	90	122	17	9	41	28	2	1	32	215	72
1983	139	365	237	373	247	71	53	3	1	1	21	94	132
1984	83	86	105	142	64	4	2	4	1	6	10	41	45
1985	25	234	47	49	53	21	4	12	8	69	33	63	50
1986	42	44	58	10	67	10	1	1	3	5	104	73	35
1987	167	175	89	26	22	11	2	0	0	0	1	3	41
1988	12	15	10	19	1	0	4	0	4	6	27	36	11
1989	74	41	125	67	42	67	109	5	3	10	55	87	57
1990	285	510	154	63	19	6	1	0	0	0	2	5	84
1991	21	137	156	158	215	41	8	3	1	1	12	35	65
1992	61	113	41	34	6	9	2	15	20	2	83	81	38
1993	215	122	77	41	30	5	2	9	1	3	29	31	47
1994	127	154	160	77	13	12	22	2	4	10	11	60	54
1995	55	128	152	70	11	2	1	1	1	24	48	56	45
1996	200	186	201	81	10	4	7	15	6	5	16	22	62
1997	116	162	89	113	43	49	187	19	3	18	47	71	76
1998	266	256	172	90	15	41	16	8	16	96	42	61	89
1999	217	119	116	55	11	88	45	0	3	38	29	61	65
2000	60	22	74	124	0	0	0	0	0	0	43	26	29
2001	76	72	169	49	9	67	0	0	55	10	28	84	52
2002	138	82	83	25	17	6	0	0	2	20	50	108	44
2003	40	104	93	167	123	54	79	38	2	13	49	29	66
2004	32	185	53	53	2	20	4	18	15	0	82	66	43
2005	32	116	119	180	57	118	273	59	67	20	34	56	94
2006	85	117	125	52	35	0	0	0	0	13	24	26	39
2007	61	41	11	9	0	0	0	0	0	0	0	0	10
2008	3	79	37	31	3	0	0	0	0	0	0	29	15
2009	43	9	192	84	28	0	0	0	285	97	152	145	86
2010	123	144	187	84	80	46	15	0	0	1	40	27	62
2011	39	32	178	63	0	0	0	0	14	0	27	46	33
2012	77	89	87	1	7	0	0	0	8	10	7	71	30
2013	162	241	103	74	37	24	69	41	0	0	18	113	72
2014	71	120	131	243	30	9	0	0	0	1	25	73	58

Non-Exceedance Percentiles

02449245 - Brush Creek near Eutaw, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	3	9	10	1	0	0	0	0	0	0	0	0	10
5th %	12	21	35	10	0	0	0	0	0	0	0	5	14
10th %	24	39	46	21	2	0	0	0	0	0	2	16	30
15th %	32	43	57	25	5	0	0	0	0	0	5	22	32
20th %	40	53	76	33	7	1	0	0	0	0	9	26	37
30th %	57	75	88	51	11	5	1	0	1	1	13	29	44
40th %	72	87	95	57	15	9	2	1	1	2	23	36	46
Median	83	116	116	70	22	11	3	2	2	5	27	47	54
60th %	114	121	130	83	34	19	6	3	3	8	33	60	62
70th %	126	141	158	109	42	38	15	8	7	11	42	68	69
80th %	139	179	182	145	65	46	37	16	10	20	49	75	79
90th %	203	235	208	192	130	67	70	28	23	62	78	95	87
Maximum	285	510	491	460	247	118	273	59	285	97	152	215	132
Average	99	127	139	100	47	24	26	9	17	16	34	55	57

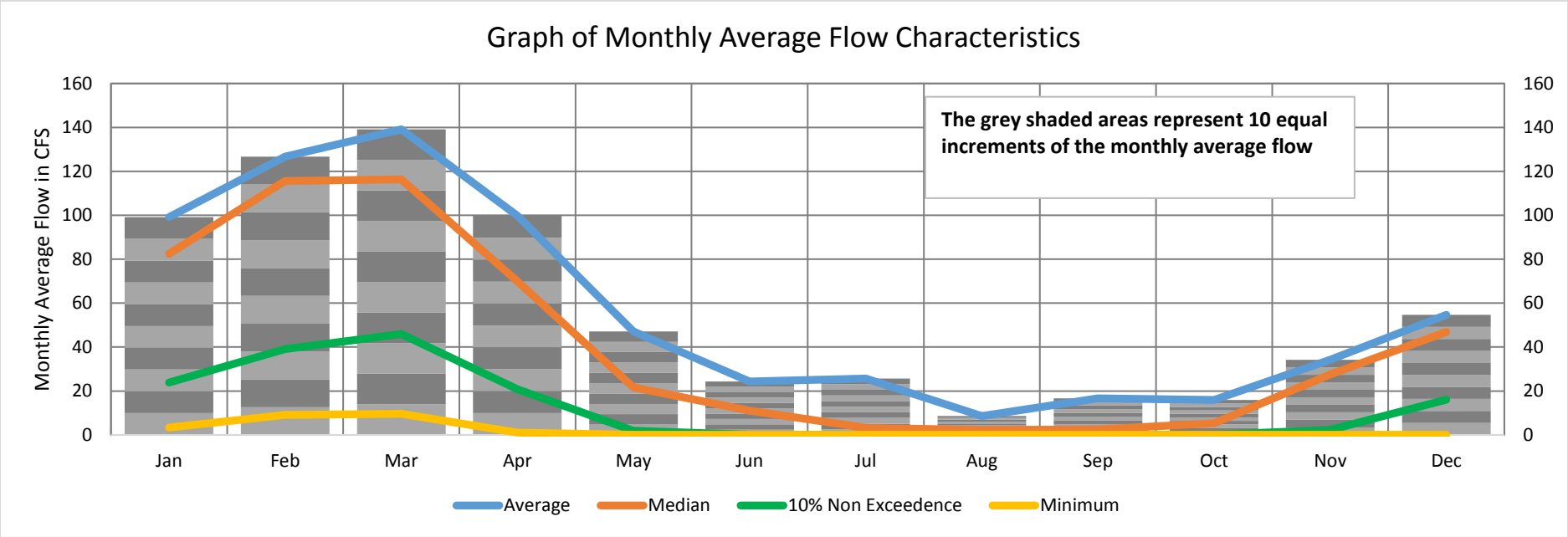
	Flows in CFS
Minimum	0.1
5th %	0
10th %	0
15th %	1
20th %	2
30th %	7
40th %	16
Median	29
60th %	47
70th %	69
80th %	94
90th %	152
Maximum	510
Average	57



Q10/Q50	0.00
Q10/Q90	0.00
	CFSM*
Qmin/DA	0.00
Q5/DA	0.00
Q10/DA	0.00
Q15/DA	0.02
Q20/DA	0.06
Q30/DA	0.17
Q40/DA	0.37
Q50/DA	0.68
Q60/DA	1.08
Q70/DA	1.59
Q80/DA	2.18
Q90/DA	3.51
Qmax/DA	11.80

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

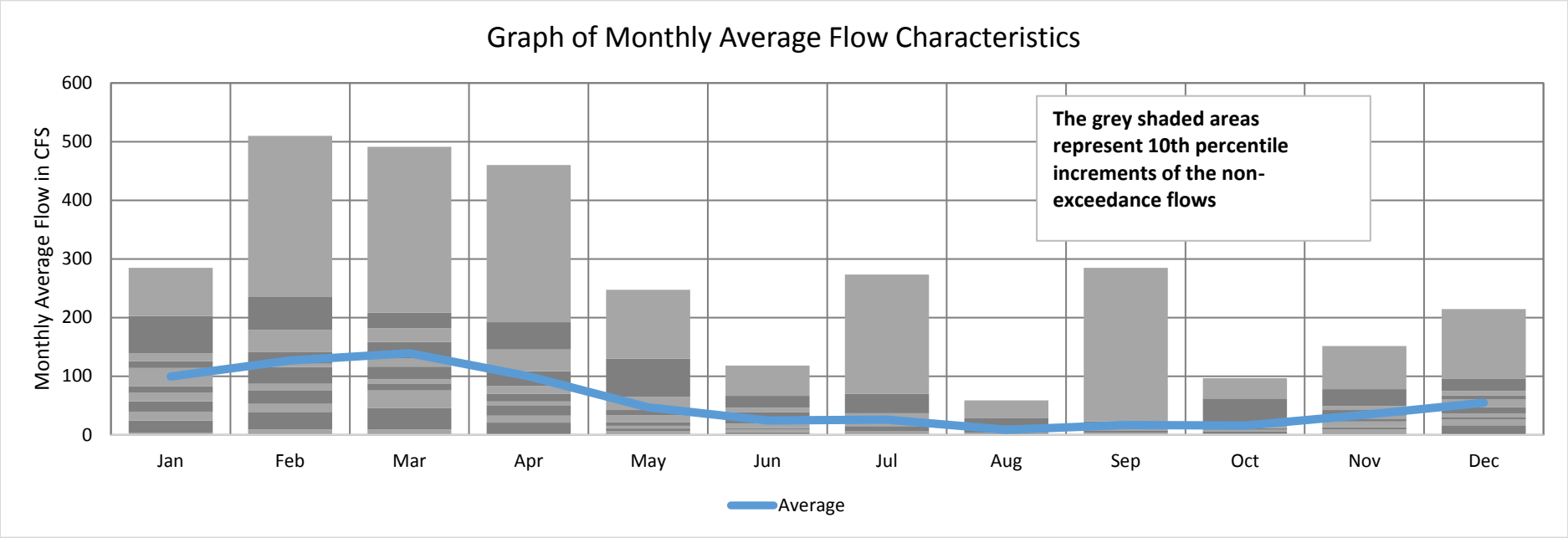
Site #: 02449245 Name: Brush Creek near Eutaw, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	99	127	139	100	47	24	26	8.6	17	16	34	55
100%	285	510	491	460	247	118	273	59	285	97	152	215
98%	270	400	437	394	223	95	206	45	154	96	114	160
95%	222	267	411	280	205	72	113	38	70	81	84	115
90%	203	235	208	192	130	67	70	28	23	62	78	95
75%	136	158	171	123	55	42	23	13	8.1	14	48	71
50%	83	116	116	70	22	11	3.3	2.3	2.5	5.4	27	47
25%	43	64	82	45	9.7	3.5	0.8	0.1	0.4	0.7	11	27
10%	24	39	46	21	1.9	0.1	0.1	0.1	0.1	0.1	2.3	16
5%	12	21	35	10	0.1	0.1	0.1	0.1	0.1	0.1	0.4	5.2
2%	6.1	13	10	6.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.1
0%	3.4	9.1	9.6	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Site #: 02449245 Name: Brush Creek near Eutaw, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 43 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	99	127	139	100	47	24	26	8.6	17	16	34	55
100%	285	510	491	460	247	118	273	59	285	97	152	215
98%	270	400	437	394	223	95	206	45	154	96	114	160
95%	222	267	411	280	205	72	113	38	70	81	84	115
90%	203	235	208	192	130	67	70	28	23	62	78	95
75%	136	158	171	123	55	42	23	13	8.1	14	48	71
50%	83	116	116	70	22	11	3.3	2.3	2.5	5.4	27	47
25%	43	64	82	45	9.7	3.5	0.8	0.1	0.4	0.7	11	27
10%	24	39	46	21	1.9	0.1	0.1	0.1	0.1	0.1	2.3	16
5%	12	21	35	10	0.1	0.1	0.1	0.1	0.1	0.1	0.4	5.2
2%	6.1	13	10	6.9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.1
0%	3.4	9.1	9.6	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Monthly Flows (in CFS) for
02450000 - Mulberry Fork near Garden City, Ala.

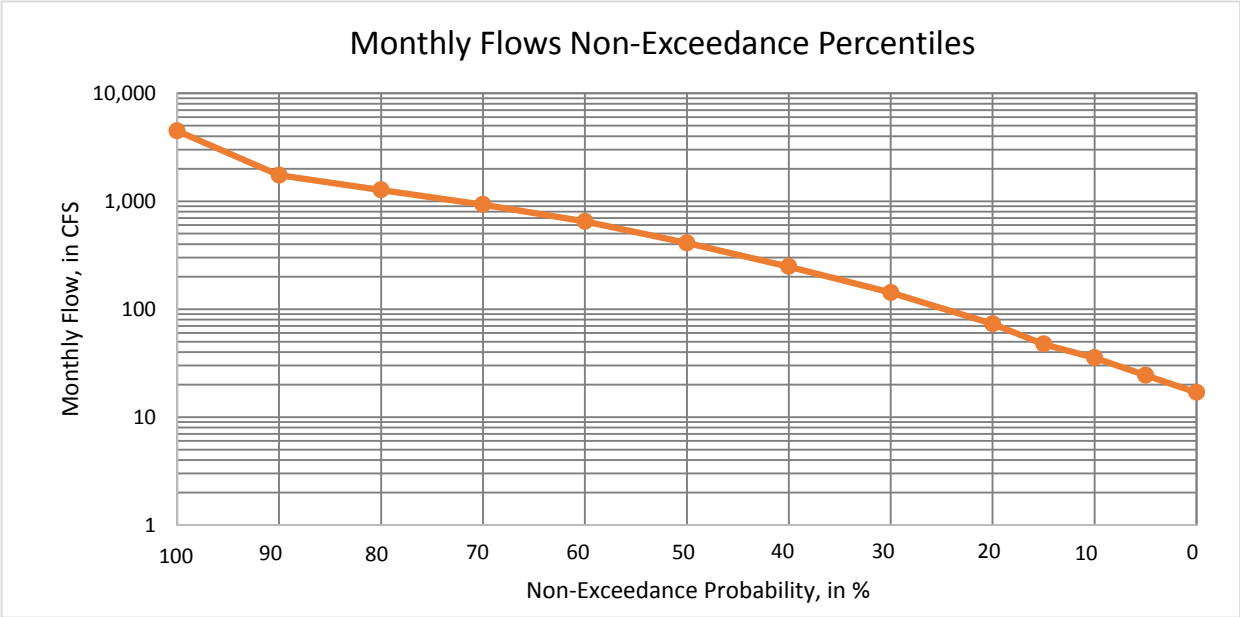
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,018	2,536	2,719	917	769	257	747	485	283	1,027	400	680	1,064
1976	1,774	1,103	1,738	541	801	324	307	115	89	43	82	1,022	662
1977	705	711	3,235	2,006	124	35	29	24	529	1,098	1,693	859	921
1978	1,367	397	944	247	670	151	43	73	29	21	18	199	349
1979	1,822	1,020	2,162	3,007	533	248	121	126	527	350	902	516	942
1980	1,335	938	4,444	1,708	1,270	132	34	54	807	678	671	547	1,055
1981	174	1,132	1,033	987	118	326	44	69	51	31	49	581	377
1982	3,425	1,859	783	1,855	432	141	75	34	17	23	45	1,476	842
1983	644	1,486	1,445	2,082	1,497	381	62	28	22	21	295	2,163	840
1984	1,139	717	1,120	1,449	1,988	114	52	129	23	182	471	650	671
1985	337	1,733	477	428	708	90	925	531	100	153	338	522	522
1986	282	728	764	144	185	152	35	30	59	145	518	590	300
1987	1,312	1,637	1,648	371	122	176	487	41	42	18	40	222	504
1988	1,010	657	317	709	119	25	31	24	487	286	657	539	402
1989	2,342	2,071	1,893	1,180	247	1,233	1,623	155	197	387	547	648	1,038
1990	2,943	4,484	1,840	418	531	129	91	23	26	22	39	1,287	966
1991	997	1,956	1,393	1,978	2,043	270	105	47	53	19	55	1,060	825
1992	876	1,511	1,097	514	131	253	146	222	233	129	1,186	1,448	639
1993	2,201	1,036	1,268	650	306	66	36	58	34	24	95	353	509
1994	1,482	2,625	2,561	1,534	358	111	260	123	87	398	390	1,140	913
1995	914	1,412	1,509	536	231	197	69	64	44	589	1,307	1,087	658
1996	2,080	1,112	1,735	791	275	103	191	159	457	185	605	1,251	745
1997	2,028	1,654	1,537	401	948	2,839	620	94	208	855	485	678	1,024
1998	2,538	1,946	1,569	1,658	355	240	92	62	21	22	55	523	750
1999	1,987	1,274	1,149	780	497	737	348	38	23	25	38	52	575
2000	397	367	1,419	1,935	130	76	39	24	30	18	461	528	451
2001	1,031	1,559	2,501	1,080	221	320	209	289	565	200	160	1,494	799
2002	1,557	943	1,224	668	1,023	155	205	78	173	455	1,182	1,489	763
2003	664	2,542	1,229	877	2,351	392	213	112	117	43	125	322	738
2004	861	2,222	1,084	215	157	233	245	44	258	300	1,865	2,247	801
2005	580	799	717	1,196	147	389	525	114	143	35	118	523	437
2006	1,101	1,015	694	958	793	56	24	31	130	478	504	364	509
2007	1,031	473	327	200	66	21	27	18	47	21	25	25	189
2008	100	686	1,041	345	399	118	51	91	28	42	36	1,431	364
2009	2,430	737	1,521	1,168	2,240	332	121	148	543	1,269	649	1,789	1,086
2010	1,498	1,294	1,370	1,048	1,375	173	66	62	22	25	45	136	590
2011	844	651	2,458	2,315	291	107	143	37	1,029	89	426	1,557	829
2012	2,093	897	886	145	83	64	33	45	201	233	72	758	459
2013	2,908	1,661	1,186	1,167	1,609	156	200	516	48	18	84	1,120	889
2014	648	1,726	707	1,387	321	627	98	39	29	291	282	1,084	594

Non-Exceedance Percentiles

02450000 - Mulberry Fork near Garden City, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	100	367	317	144	66	21	24	18	17	18	18	25	189
5th %	276	469	469	197	116	34	29	24	22	18	36	132	346
10th %	391	656	706	243	122	63	33	24	23	20	38	220	376
15th %	634	707	757	367	129	75	35	30	26	21	44	348	432
20th %	661	726	865	415	144	101	38	33	29	22	48	486	458
30th %	871	925	1,071	540	228	117	51	40	39	25	79	527	518
40th %	1,023	1,030	1,171	751	300	147	73	51	49	42	122	587	621
Median	1,226	1,203	1,319	937	378	164	101	63	88	137	316	679	704
60th %	1,488	1,496	1,471	1,115	532	236	144	83	135	191	440	1,037	778
70th %	1,872	1,656	1,593	1,253	776	261	206	114	203	293	508	1,126	832
80th %	2,083	1,876	1,851	1,668	1,072	327	269	133	318	409	651	1,434	914
90th %	2,441	2,253	2,507	1,981	1,647	415	535	228	530	695	1,182	1,500	1,026
Maximum	3,425	4,484	4,444	3,007	2,351	2,839	1,623	531	1,029	1,269	1,865	2,247	1,086
Average	1,387	1,383	1,469	1,040	662	299	219	111	195	256	425	874	690

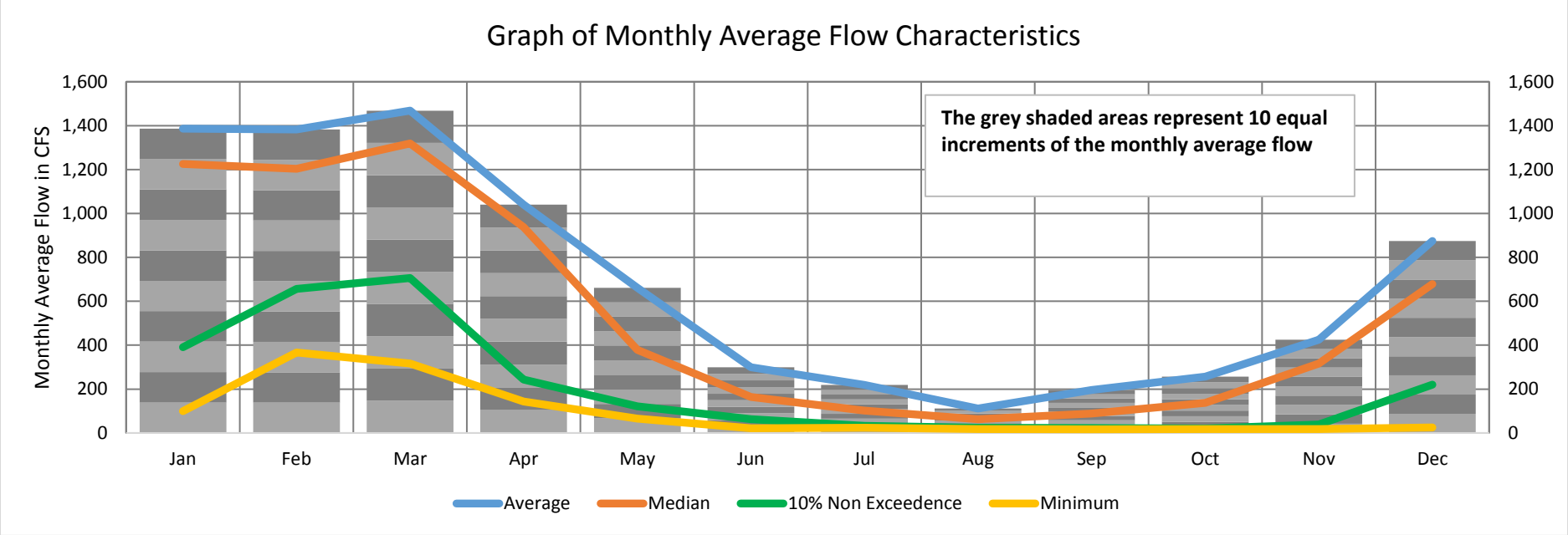
	Flows in CFS
Minimum	16.9
5th %	24
10th %	35
15th %	47
20th %	73
30th %	142
40th %	248
Median	410
60th %	649
70th %	929
80th %	1,268
90th %	1,742
Maximum	4,484
Average	693



Q10/Q50	0.09
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.05
Q5/DA	0.07
Q10/DA	0.10
Q15/DA	0.13
Q20/DA	0.20
Q30/DA	0.40
Q40/DA	0.69
Q50/DA	1.14
Q60/DA	1.81
Q70/DA	2.59
Q80/DA	3.54
Q90/DA	4.86
Qmax/DA	12.53

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

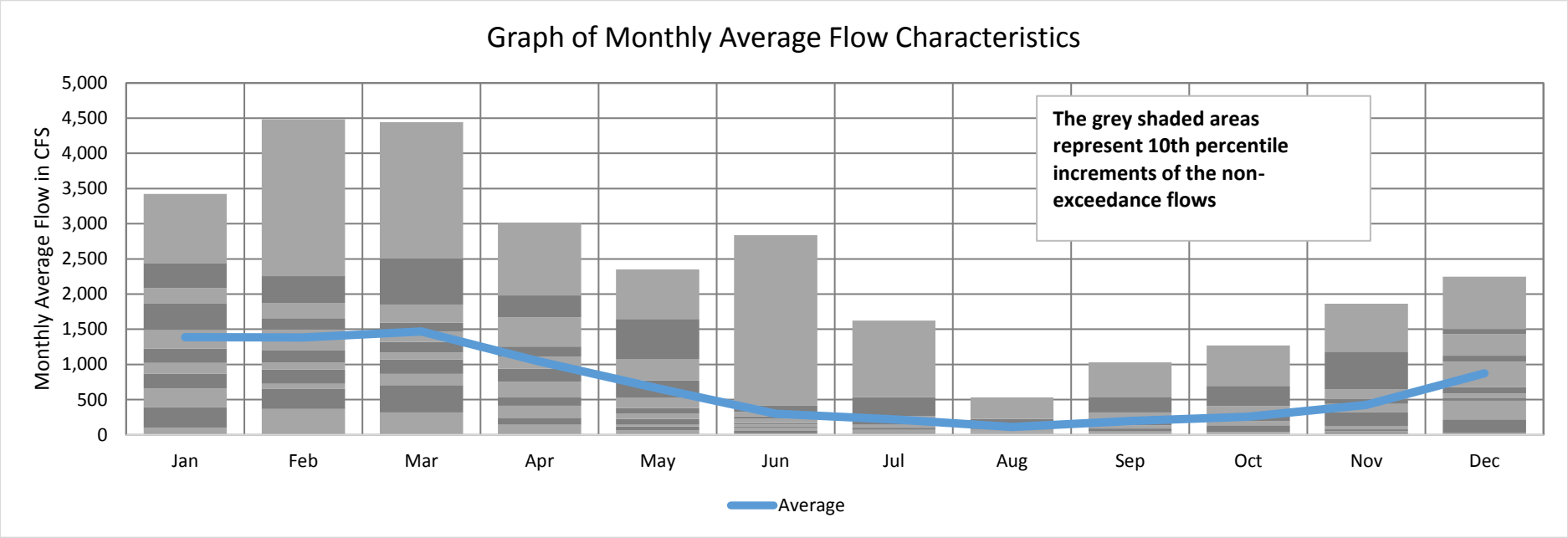
Site #: 02450000 Name: Mulberry Fork near Garden City, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,387	1,383	1,469	1,040	662	299	219	111	195	256	425	874
100%	3,425	4,484	4,444	3,007	2,351	2,839	1,623	531	1,029	1,269	1,865	2,247
98%	3,049	3,034	3,501	2,467	2,264	1,586	1,079	519	856	1,136	1,731	2,181
95%	2,910	2,546	2,745	2,094	2,053	762	756	487	577	1,031	1,326	1,808
90%	2,441	2,253	2,507	1,981	1,647	415	535	228	530	695	1,182	1,500
75%	2,021	1,728	1,736	1,470	838	321	221	124	239	359	562	1,260
50%	1,226	1,203	1,319	937	378	164	101	63	88	137	316	679
25%	809	783	1,011	492	178	110	43	38	30	23	55	522
10%	391	656	706	243	122	63	33	24	23	20	38	220
5%	276	469	469	197	116	34	29	24	22	18	36	132
2%	158	390	325	145	79	24	26	22	20	18	23	46
0%	100	367	317	144	66	21	24	18	17	18	18	25

Site #: 02450000 Name: Mulberry Fork near Garden City, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 358 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,387	1,383	1,469	1,040	662	299	219	111	195	256	425	874
100%	3,425	4,484	4,444	3,007	2,351	2,839	1,623	531	1,029	1,269	1,865	2,247
98%	3,049	3,034	3,501	2,467	2,264	1,586	1,079	519	856	1,136	1,731	2,181
95%	2,910	2,546	2,745	2,094	2,053	762	756	487	577	1,031	1,326	1,808
90%	2,441	2,253	2,507	1,981	1,647	415	535	228	530	695	1,182	1,500
75%	2,021	1,728	1,736	1,470	838	321	221	124	239	359	562	1,260
50%	1,226	1,203	1,319	937	378	164	101	63	88	137	316	679
25%	809	783	1,011	492	178	110	43	38	30	23	55	522
10%	391	656	706	243	122	63	33	24	23	20	38	220
5%	276	469	469	197	116	34	29	24	22	18	36	132
2%	158	390	325	145	79	24	26	22	20	18	23	46
0%	100	367	317	144	66	21	24	18	17	18	18	25

Monthly Flows (in CFS) for
02450180 - Mulberry Fork near Arkadelphia, Ala.

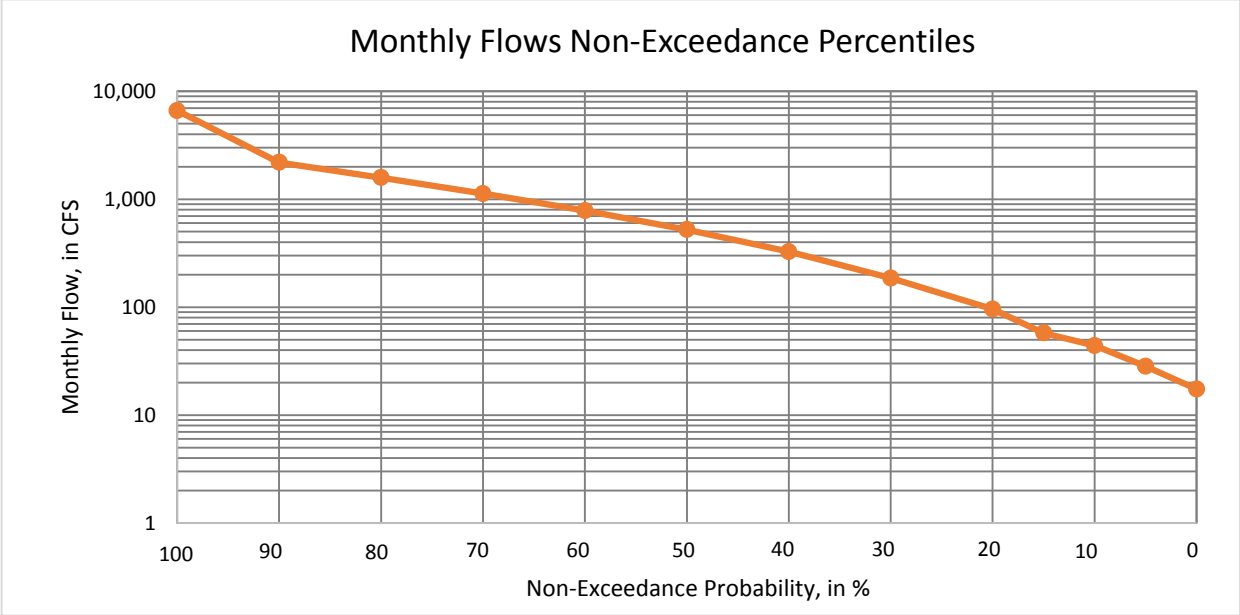
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,512	3,157	3,386	1,139	954	316	927	601	349	1,276	494	843	1,323
1976	2,207	1,371	2,162	671	995	400	378	139	107	55	116	756	780
1977	1,375	779	3,753	2,731	172	42	33	26	608	1,973	2,375	986	1,239
1978	1,574	595	1,067	434	879	221	47	45	21	23	22	286	436
1979	2,130	1,229	2,736	3,809	613	293	133	140	620	352	1,375	691	1,173
1980	1,639	1,158	5,629	2,314	1,520	177	47	65	658	781	745	573	1,280
1981	201	1,150	1,192	1,128	161	368	55	72	91	53	69	762	436
1982	3,188	2,258	1,077	2,190	549	258	109	52	24	34	76	1,888	969
1983	831	2,057	1,805	2,485	1,915	512	87	30	27	27	377	2,635	1,060
1984	1,597	896	1,127	1,655	2,186	136	65	148	28	198	531	749	777
1985	458	1,971	622	595	854	136	1,026	657	100	227	434	701	641
1986	393	959	939	185	237	211	44	46	76	176	642	732	383
1987	1,631	2,037	2,050	458	148	216	603	47	47	17	45	273	624
1988	1,255	815	390	879	144	27	34	26	603	361	803	611	492
1989	3,121	2,246	2,368	1,469	366	1,613	2,005	188	234	463	732	811	1,297
1990	3,162	6,623	2,514	466	650	163	97	24	30	23	45	1,349	1,230
1991	1,150	2,450	1,756	2,504	2,659	315	108	48	65	20	72	1,122	1,014
1992	910	1,753	1,185	646	151	266	198	249	260	117	1,208	1,657	709
1993	2,589	1,138	1,554	856	366	76	44	56	44	30	112	447	609
1994	1,757	3,349	3,182	1,911	408	183	376	161	129	467	503	1,486	1,147
1995	1,165	1,773	1,899	769	304	195	64	56	45	716	1,525	1,326	814
1996	2,557	1,387	2,104	950	366	136	245	203	539	224	659	1,403	897
1997	2,234	1,768	1,501	438	1,099	3,104	877	124	226	1,062	606	848	1,153
1998	3,175	2,625	1,909	2,004	414	268	113	92	24	26	63	661	938
1999	2,465	1,589	1,465	959	644	959	412	43	26	29	44	76	721
2000	494	486	1,942	2,479	191	87	49	26	32	23	575	648	584
2001	1,262	1,836	2,964	1,637	288	468	234	287	802	292	210	1,821	1,004
2002	1,767	1,140	1,383	866	1,119	199	323	105	216	534	1,453	1,710	902
2003	800	2,850	1,597	1,059	2,704	486	253	121	130	46	146	410	872
2004	1,009	2,824	1,273	308	228	482	414	70	329	412	2,270	2,613	1,006
2005	706	995	995	1,547	235	419	593	140	186	52	167	714	559
2006	1,363	1,404	967	1,172	1,017	71	26	36	144	539	620	427	644
2007	1,321	615	424	265	81	27	40	23	50	22	28	33	243
2008	141	919	1,347	468	657	165	64	141	40	44	39	1,626	470
2009	3,424	853	2,096	1,562	2,499	399	117	191	784	1,596	859	2,175	1,389
2010	1,962	1,595	1,789	1,225	1,819	357	105	71	33	32	47	216	768
2011	1,110	881	3,436	3,063	436	122	183	44	1,455	107	480	1,955	1,106
2012	2,631	1,148	1,311	206	116	71	41	58	248	272	105	1,052	605
2013	4,125	2,208	1,582	1,545	2,034	239	299	678	78	28	110	1,384	1,192
2014	976	2,267	968	2,017	433	730	119	52	44	333	337	1,394	794

Non-Exceedance Percentiles

02450180 - Mulberry Fork near Arkadelphia, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	141	486	390	185	81	27	26	23	21	17	22	33	243
5th %	383	614	612	262	142	41	34	25	24	22	39	209	433
10th %	490	811	964	422	151	71	41	26	26	23	44	285	467
15th %	786	877	991	455	170	85	44	35	29	26	47	424	549
20th %	894	914	1,075	468	220	133	47	44	33	28	68	548	601
30th %	1,138	1,139	1,249	740	299	164	64	48	44	34	109	682	643
40th %	1,297	1,201	1,432	922	391	197	102	56	71	53	159	742	774
Median	1,586	1,497	1,590	1,133	493	230	115	71	103	146	405	827	843
60th %	1,761	1,770	1,843	1,499	653	278	189	111	161	245	514	1,080	950
70th %	2,215	2,043	2,064	1,642	966	360	267	140	238	355	626	1,387	1,028
80th %	2,563	2,260	2,397	2,052	1,199	429	385	166	387	480	757	1,632	1,157
90th %	3,163	2,827	3,202	2,487	2,049	534	630	253	624	809	1,383	1,895	1,243
Maximum	4,125	6,623	5,629	3,809	2,704	3,104	2,005	678	1,455	1,973	2,375	2,635	1,389
Average	1,709	1,729	1,836	1,327	815	373	275	134	239	326	528	1,046	857

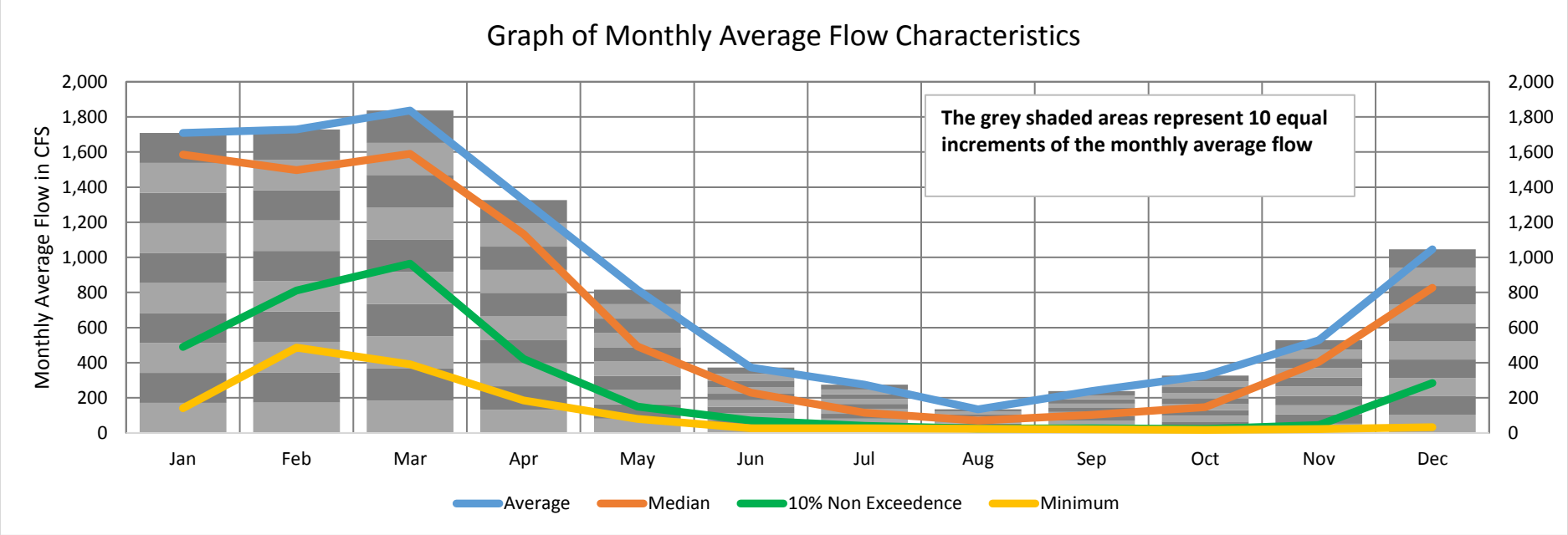
	Flows in CFS
Minimum	17.4
5th %	28
10th %	44
15th %	58
20th %	96
30th %	186
40th %	327
Median	521
60th %	782
70th %	1,127
80th %	1,583
90th %	2,192
Maximum	6,623
Average	861



Q10/Q50	0.08
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.04
Q5/DA	0.06
Q10/DA	0.09
Q15/DA	0.12
Q20/DA	0.20
Q30/DA	0.38
Q40/DA	0.67
Q50/DA	1.07
Q60/DA	1.61
Q70/DA	2.31
Q80/DA	3.25
Q90/DA	4.50
Qmax/DA	13.60

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

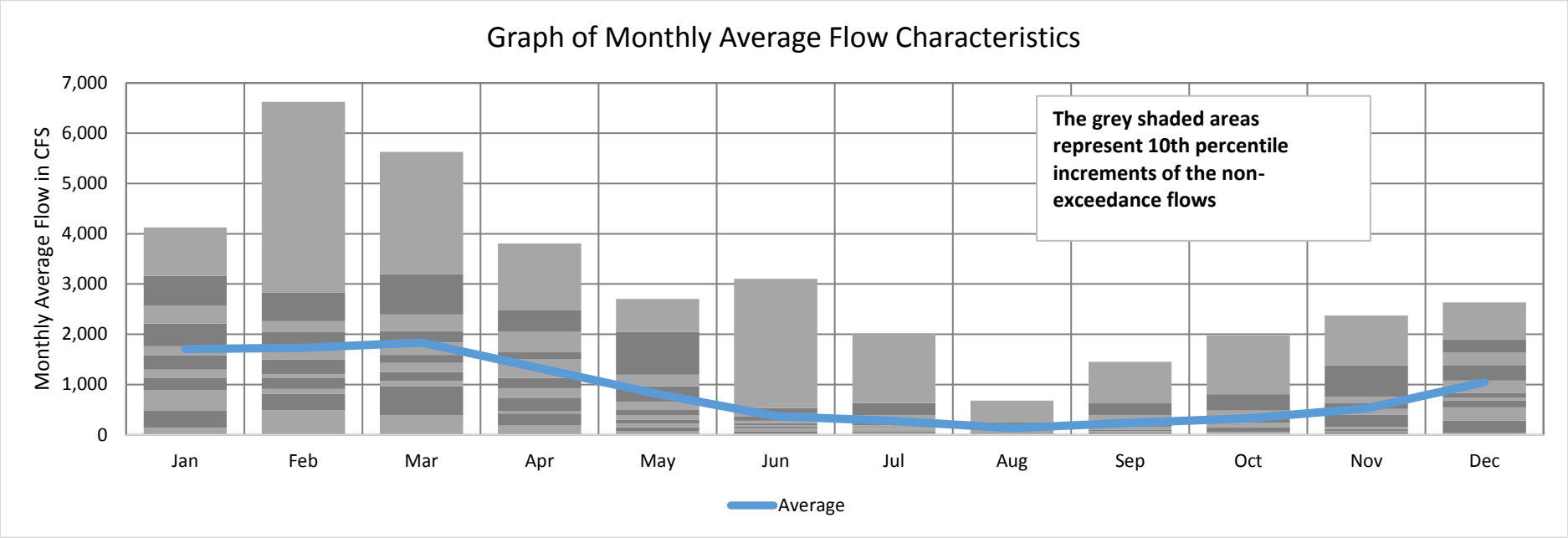
Site #: 02450180 Name: Mulberry Fork near Arkadelphia, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,709	1,729	1,836	1,327	815	373	275	134	239	326	528	1,046
100%	4,125	6,623	5,629	3,809	2,704	3,104	2,005	678	1,455	1,973	2,375	2,635
98%	3,578	4,069	4,166	3,227	2,669	1,941	1,241	662	945	1,679	2,293	2,618
95%	3,200	3,167	3,452	2,748	2,507	991	932	603	785	1,292	1,562	2,197
90%	3,163	2,827	3,202	2,487	2,049	534	630	253	624	809	1,383	1,895
75%	2,477	2,218	2,119	1,934	1,038	399	336	143	278	425	677	1,424
50%	1,586	1,497	1,590	1,133	493	230	115	71	103	146	405	827
25%	1,001	986	1,171	633	237	136	54	46	43	29	75	638
10%	490	811	964	422	151	71	41	26	26	23	44	285
5%	383	614	612	262	142	41	34	25	24	22	39	209
2%	187	571	417	201	108	27	32	24	23	20	27	67
0%	141	486	390	185	81	27	26	23	21	17	22	33

Site #: 02450180 Name: Mulberry Fork near Arkadelphia, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 487 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,709	1,729	1,836	1,327	815	373	275	134	239	326	528	1,046
100%	4,125	6,623	5,629	3,809	2,704	3,104	2,005	678	1,455	1,973	2,375	2,635
98%	3,578	4,069	4,166	3,227	2,669	1,941	1,241	662	945	1,679	2,293	2,618
95%	3,200	3,167	3,452	2,748	2,507	991	932	603	785	1,292	1,562	2,197
90%	3,163	2,827	3,202	2,487	2,049	534	630	253	624	809	1,383	1,895
75%	2,477	2,218	2,119	1,934	1,038	399	336	143	278	425	677	1,424
50%	1,586	1,497	1,590	1,133	493	230	115	71	103	146	405	827
25%	1,001	986	1,171	633	237	136	54	46	43	29	75	638
10%	490	811	964	422	151	71	41	26	26	23	44	285
5%	383	614	612	262	142	41	34	25	24	22	39	209
2%	187	571	417	201	108	27	32	24	23	20	27	67
0%	141	486	390	185	81	27	26	23	21	17	22	33

Monthly Flows (in CFS) for
02450250 - Sipsey Fork near Grayson, Ala.

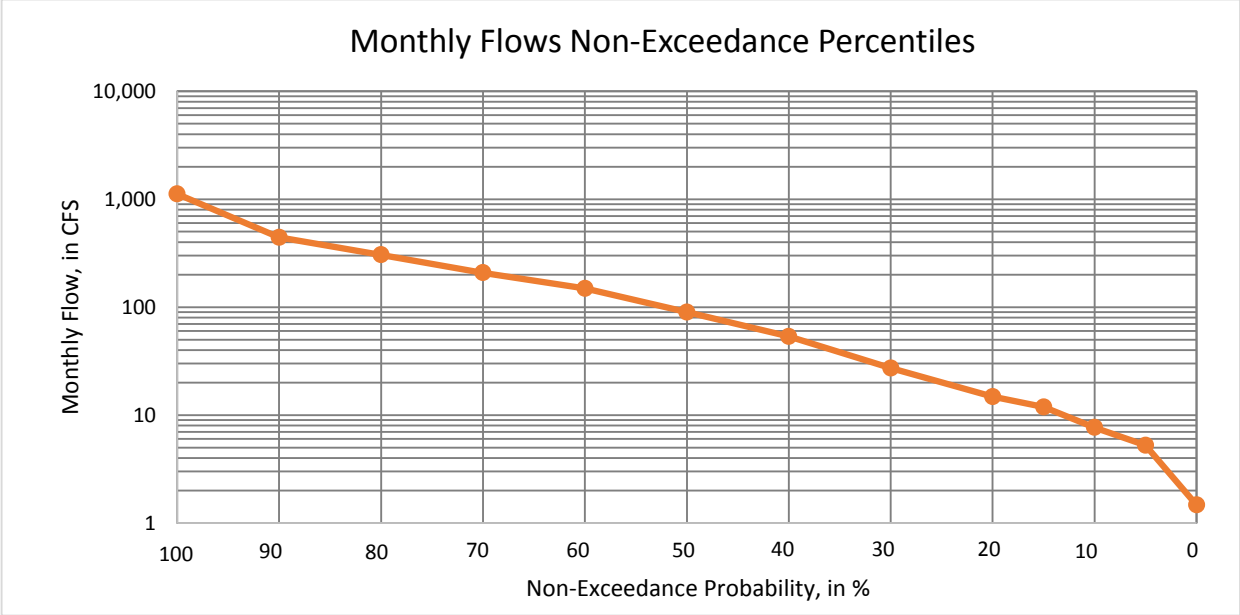
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	448	450	611	178	138	68	91	48	42	414	113	188	232
1976	297	236	379	118	63	89	46	13	16	18	35	96	117
1977	223	250	608	400	21	8	5	4	13	66	228	108	160
1978	227	88	269	48	384	204	11	6	4	4	5	56	109
1979	470	382	307	545	96	23	83	42	243	30	539	141	239
1980	348	193	1,117	426	424	38	12	6	41	30	177	62	241
1981	54	260	251	208	19	100	14	24	10	11	25	86	87
1982	614	315	162	168	37	25	39	62	6	6	73	400	159
1983	175	354	455	517	676	54	27	10	6	6	85	709	256
1984	266	171	338	437	748	26	11	8	5	71	182	95	197
1985	167	387	86	141	372	16	24	27	7	23	25	31	107
1986	29	145	139	26	97	99	16	5	4	18	125	180	73
1987	321	399	327	65	19	13	7	6	9	4	21	107	107
1988	230	140	58	141	18	3	12	4	13	27	145	154	78
1989	500	441	437	183	67	225	264	25	255	216	185	124	242
1990	521	643	451	195	152	35	12	6	4	4	13	685	225
1991	202	707	456	627	539	63	23	7	10	10	30	467	259
1992	124	137	183	83	20	22	13	18	50	14	171	225	88
1993	254	200	370	231	188	23	12	13	17	12	96	171	132
1994	315	600	473	164	80	61	70	16	8	36	95	181	172
1995	214	649	342	317	130	88	12	6	5	50	132	224	177
1996	482	204	428	230	53	24	23	15	44	27	131	284	162
1997	344	343	349	93	450	776	143	24	14	28	16	123	224
1998	540	486	261	171	138	28	32	30	6	4	7	154	153
1999	741	204	341	171	160	111	42	6	3	5	11	27	152
2000	71	62	264	534	24	15	5	3	2	1	33	48	88
2001	288	452	390	456	126	517	42	31	73	221	114	553	270
2002	356	172	373	161	395	26	47	17	38	117	222	343	190
2003	142	632	205	159	577	72	57	42	71	18	106	121	181
2004	188	613	387	83	49	79	36	10	34	64	314	658	207
2005	210	278	173	308	32	65	149	54	34	11	41	216	130
2006	420	253	166	201	176	17	7	6	9	29	150	94	127
2007	280	157	96	79	25	6	13	5	9	5	13	14	58
2008	39	197	302	173	93	19	5	9	5	6	10	399	105
2009	296	141	411	208	417	69	14	45	506	454	227	464	272
2010	387	330	292	173	134	65	14	8	3	6	66	61	127
2011	338	118	649	628	76	14	10	14	54	8	22	247	182
2012	377	197	272	75	18	8	13	12	46	91	21	221	113
2013	578	262	268	266	201	29	304	59	23	14	35	230	190
2014	214	433	141	295	57	58	23	11	5	49	63	353	140

Non-Exceedance Percentiles

02450250 - Sipsey Fork near Grayson, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	29	62	58	26	18	3	5	3	2	1	5	14	58
5th %	53	117	96	64	19	8	5	4	3	4	10	31	78
10th %	119	139	141	79	20	13	7	5	4	4	12	55	88
15th %	163	144	165	83	24	15	10	6	5	5	15	62	102
20th %	185	168	181	113	30	16	12	6	5	6	21	93	107
30th %	214	197	263	160	56	23	12	7	6	10	29	108	124
40th %	244	224	284	171	78	26	14	10	9	13	38	134	137
Median	292	261	332	181	111	36	19	12	12	18	79	175	160
60th %	328	335	357	208	138	62	26	15	17	27	109	218	179
70th %	362	391	388	275	179	68	39	24	35	32	131	235	192
80th %	453	450	440	405	386	88	49	30	45	65	172	362	226
90th %	522	615	486	518	459	120	96	45	71	127	222	475	244
Maximum	741	707	1,117	628	748	776	304	62	506	454	539	709	272
Average	307	317	340	242	187	82	45	19	44	56	102	228	163

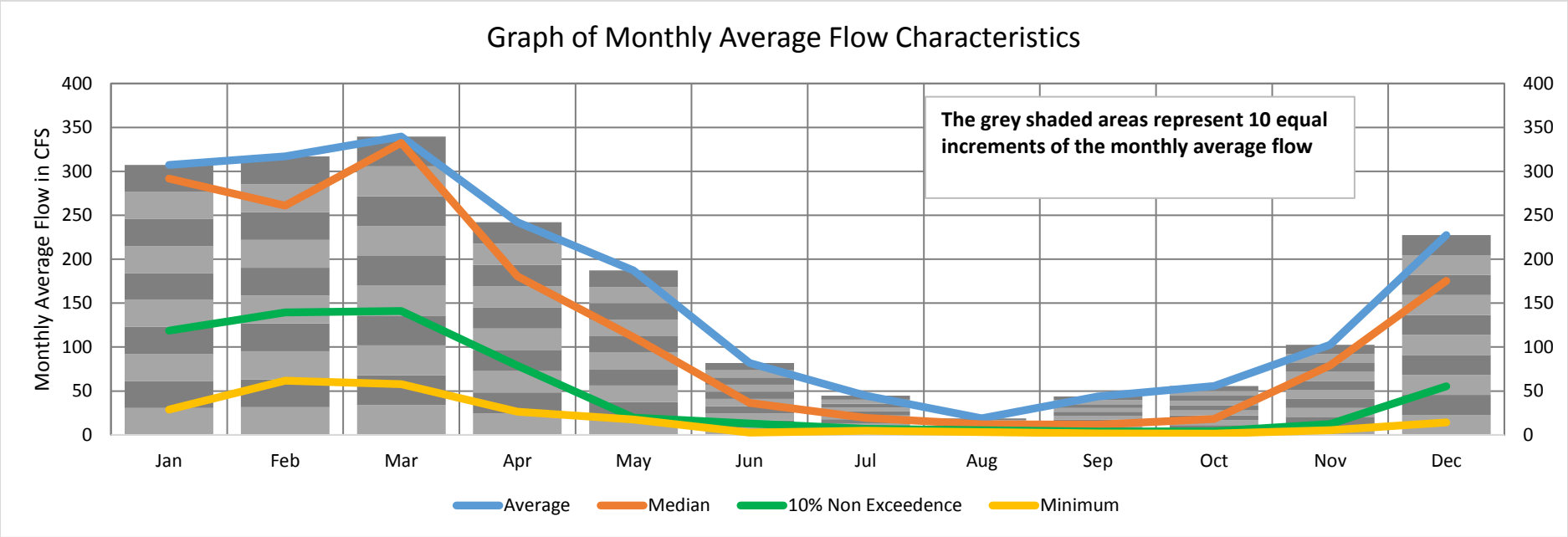
	Flows in CFS
Minimum	1.5
5th %	5
10th %	8
15th %	12
20th %	15
30th %	27
40th %	53
Median	90
60th %	149
70th %	208
80th %	305
90th %	442
Maximum	1,117
Average	164



Q10/Q50	0.09
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.02
Q5/DA	0.06
Q10/DA	0.08
Q15/DA	0.13
Q20/DA	0.16
Q30/DA	0.30
Q40/DA	0.58
Q50/DA	0.98
Q60/DA	1.62
Q70/DA	2.26
Q80/DA	3.31
Q90/DA	4.80
Qmax/DA	12.13

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

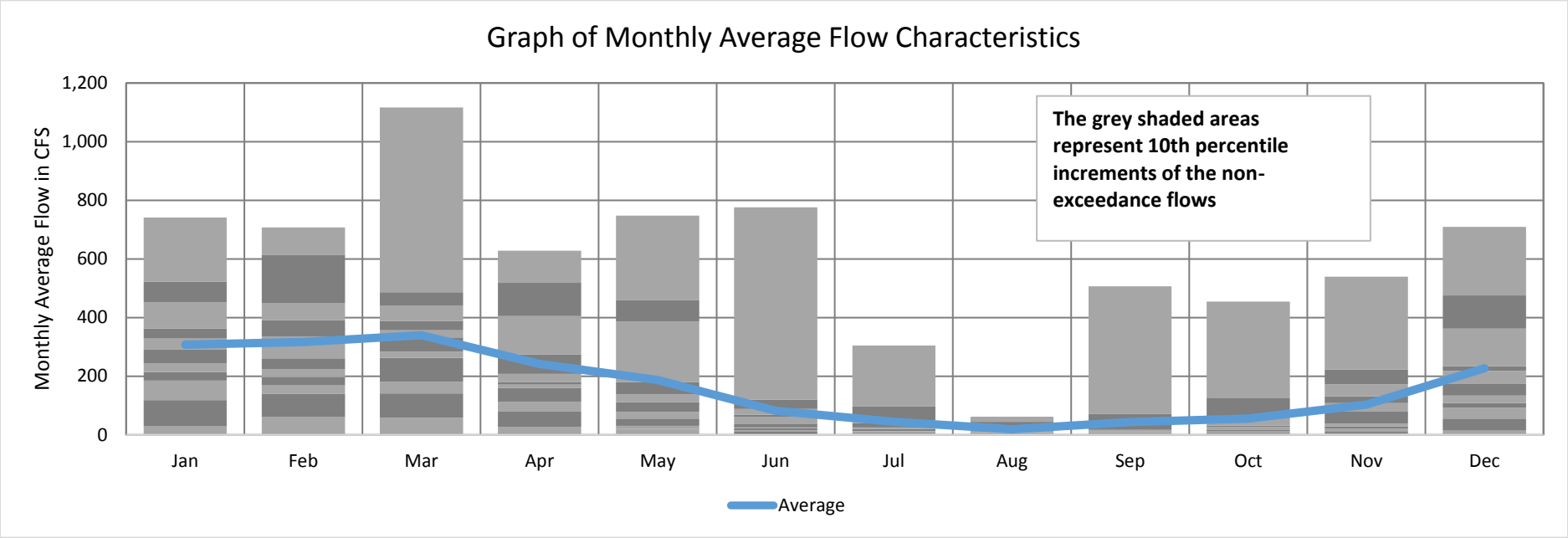
Site #: 02450250 Name: Sipsey Fork near Grayson, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	307	317	340	242	187	82	45	19	44	56	102	228
100%	741	707	1,117	628	748	776	304	62	506	454	539	709
98%	642	661	752	627	691	574	273	60	310	423	364	691
95%	580	644	613	549	582	239	154	54	243	230	232	660
90%	522	615	486	518	459	120	96	45	71	127	222	475
75%	395	435	415	310	244	73	43	25	41	49	146	298
50%	292	261	332	181	111	36	19	12	12	18	79	175
25%	208	188	240	141	46	21	12	6.4	5.7	6.4	24	95
10%	119	139	141	79	20	13	6.9	5.4	3.9	4.2	12	55
5%	53	117	96	64	19	7.6	5.1	3.8	3.3	3.9	9.8	31
2%	37	82	79	43	18	5.2	4.9	3.6	3.0	3.3	6.7	25
0%	29	62	58	26	18	2.7	4.6	3.2	1.7	1.5	5.2	14

Site #: 02450250 Name: Sipsey Fork near Grayson, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 92 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	307	317	340	242	187	82	45	19	44	56	102	228
100%	741	707	1,117	628	748	776	304	62	506	454	539	709
98%	642	661	752	627	691	574	273	60	310	423	364	691
95%	580	644	613	549	582	239	154	54	243	230	232	660
90%	522	615	486	518	459	120	96	45	71	127	222	475
75%	395	435	415	310	244	73	43	25	41	49	146	298
50%	292	261	332	181	111	36	19	12	12	18	79	175
25%	208	188	240	141	46	21	12	6.4	5.7	6.4	24	95
10%	119	139	141	79	20	13	6.9	5.4	3.9	4.2	12	55
5%	53	117	96	64	19	7.6	5.1	3.8	3.3	3.9	9.8	31
2%	37	82	79	43	18	5.2	4.9	3.6	3.0	3.3	6.7	25
0%	29	62	58	26	18	2.7	4.6	3.2	1.7	1.5	5.2	14

Monthly Flows (in CFS) for

02450825 - Clear Creek at New Hope Church near Poplar Springs, Ala.

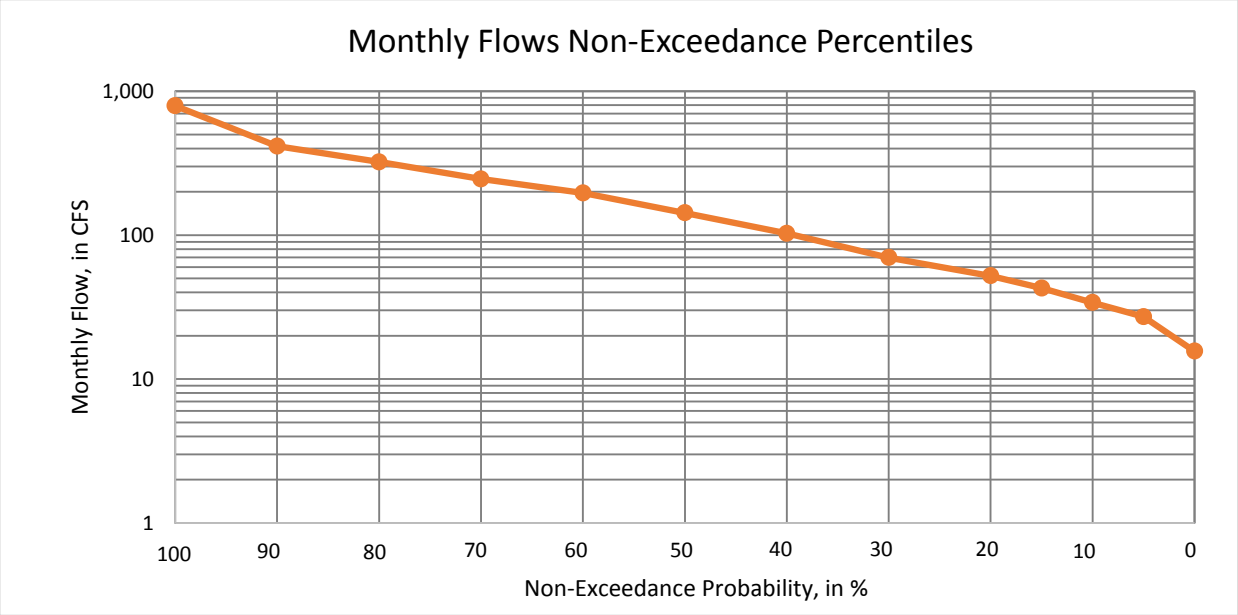
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	415	416	515	224	190	122	146	98	91	394	167	232	251
1976	314	270	371	171	117	144	96	47	52	56	81	150	155
1977	260	280	513	384	62	35	29	24	47	119	263	163	181
1978	262	143	294	99	374	244	43	32	25	25	29	108	140
1979	430	372	321	476	151	64	137	91	274	75	472	192	253
1980	350	236	792	401	400	86	45	32	90	79	237	135	241
1981	99	213	227	243	64	58	47	33	20	42	67	140	104
1982	517	327	210	216	84	67	86	115	32	31	127	385	183
1983	221	354	420	458	553	105	71	40	30	32	140	572	250
1984	292	218	343	408	594	68	42	36	27	125	227	150	211
1985	214	376	140	192	366	52	66	70	34	63	68	76	142
1986	73	196	190	69	152	154	52	29	25	56	178	225	116
1987	331	384	335	119	58	47	33	32	38	24	61	162	134
1988	265	191	110	192	57	20	45	25	47	70	196	203	118
1989	448	411	409	228	121	261	290	67	284	254	229	177	264
1990	461	534	417	238	202	81	45	31	25	26	46	558	221
1991	243	571	421	525	472	117	63	33	40	41	75	427	250
1992	177	189	228	138	59	62	47	55	101	49	218	261	132
1993	283	241	364	266	232	64	45	46	55	37	114	211	163
1994	300	607	424	257	89	97	163	65	36	84	129	216	203
1995	250	321	334	338	186	103	47	31	35	124	217	238	184
1996	453	360	296	257	112	102	99	74	78	54	186	323	198
1997	471	385	380	161	644	650	142	75	64	142	124	260	291
1998	688	424	339	243	102	81	163	120	46	35	56	231	210
1999	742	274	302	226	222	143	92	26	20	30	50	69	183
2000	131	91	225	548	60	60	24	21	16	17	93	104	115
2001	291	352	387	588	132	333	67	62	131	254	90	452	260
2002	322	194	330	178	339	62	87	41	106	159	282	364	206
2003	207	673	316	219	685	175	103	156	116	59	134	162	248
2004	203	431	308	122	80	122	166	62	88	128	340	618	221
2005	199	260	160	292	63	167	151	106	122	40	46	188	149
2006	352	305	196	182	208	43	26	32	43	97	254	123	154
2007	271	190	119	82	38	22	45	18	34	22	38	39	76
2008	77	260	278	158	231	68	22	34	26	36	35	499	143
2009	374	164	397	246	447	151	49	96	357	450	249	463	288
2010	348	341	272	214	312	97	44	31	19	23	102	90	157
2011	373	156	561	546	114	44	35	66	132	32	65	323	204
2012	521	245	246	88	67	31	70	83	122	215	55	260	167
2013	647	325	287	328	320	107	385	95	54	40	57	223	239
2014	205	412	144	344	134	219	68	32	30	165	142	421	191

Non-Exceedance Percentiles

02450825 - Clear Creek at New Hope Church near Poplar Springs, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	73	91	110	69	38	20	22	18	16	17	29	39	76
5th %	98	155	139	88	58	30	26	24	20	23	38	76	115
10th %	173	187	159	117	60	42	32	26	24	25	46	102	118
15th %	203	191	195	135	63	47	40	30	25	29	54	121	134
20th %	206	196	222	160	66	57	44	31	27	32	56	139	142
30th %	248	240	264	189	98	63	45	32	33	37	68	162	155
40th %	268	266	295	218	119	68	47	33	38	41	91	191	175
Median	296	313	318	233	151	91	65	44	46	56	126	219	188
60th %	338	345	337	250	205	104	70	62	54	72	141	235	205
70th %	373	373	374	303	256	122	93	68	88	104	189	280	221
80th %	449	411	410	388	368	152	138	85	108	131	228	392	248
90th %	517	441	433	481	480	222	163	99	131	218	255	466	254
Maximum	742	673	792	588	685	650	385	156	357	450	472	618	291
Average	327	317	323	267	222	118	87	57	75	95	143	255	190

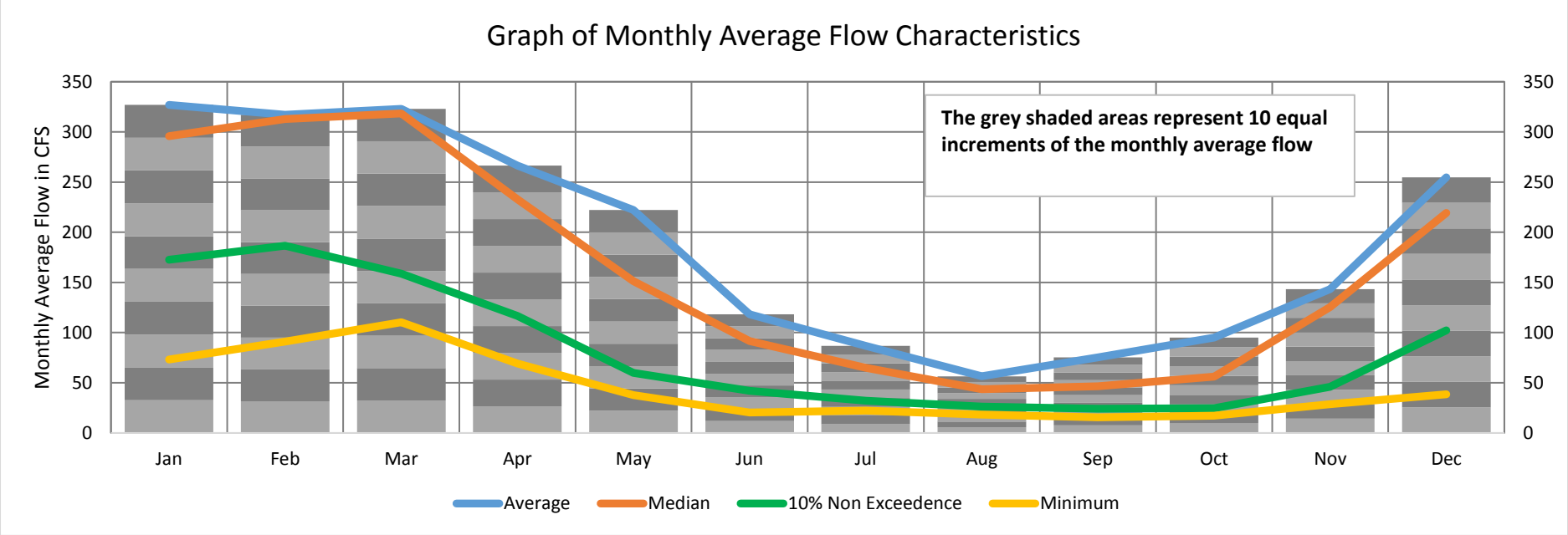
	Flows in CFS
Minimum	15.6
5th %	27
10th %	34
15th %	43
20th %	52
30th %	70
40th %	103
Median	143
60th %	196
70th %	246
80th %	323
90th %	416
Maximum	792
Average	191



Q10/Q50	0.24
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.15
Q5/DA	0.27
Q10/DA	0.34
Q15/DA	0.42
Q20/DA	0.52
Q30/DA	0.69
Q40/DA	1.02
Q50/DA	1.41
Q60/DA	1.94
Q70/DA	2.43
Q80/DA	3.19
Q90/DA	4.11
Qmax/DA	7.84

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

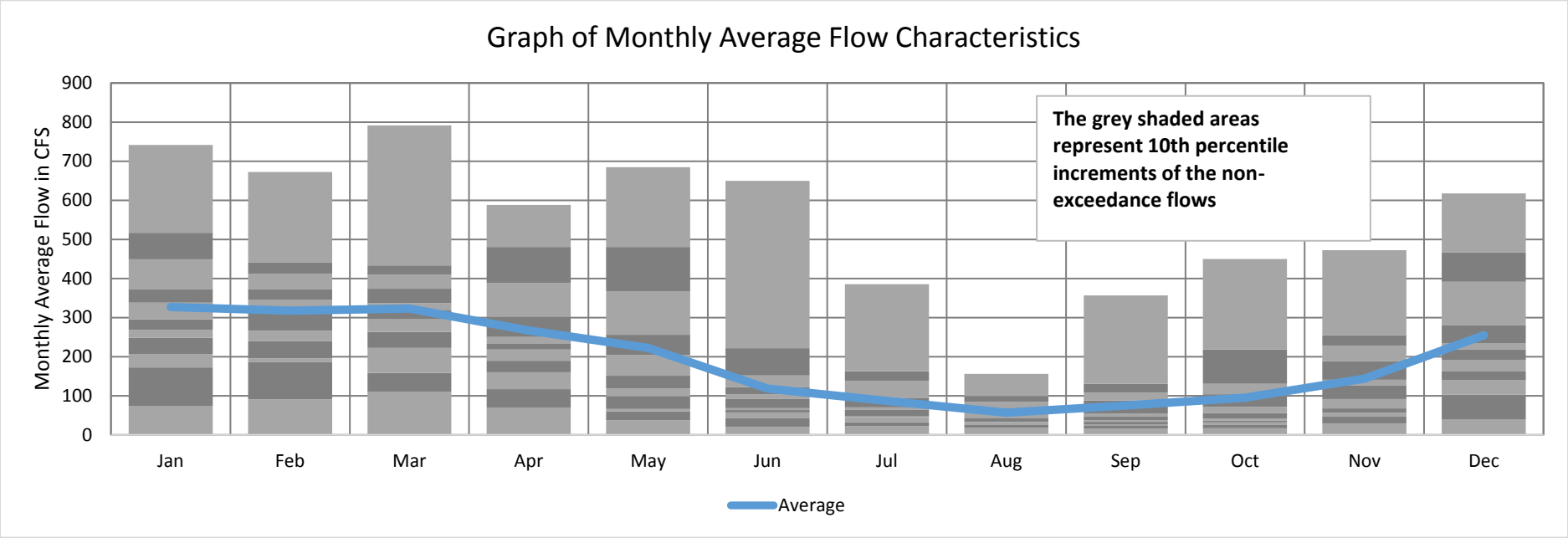
Site #: 02450825 Name: Clear Creek at New Hope Church near Poplar Springs, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	327	317	323	267	222	118	87	57	75	95	143	255
100%	742	673	792	588	685	650	385	156	357	450	472	618
98%	700	621	611	557	653	402	311	128	300	406	369	582
95%	649	573	517	546	596	264	172	115	275	261	285	559
90%	517	441	433	481	480	222	163	99	131	218	255	466
75%	419	384	389	340	324	143	100	74	93	124	217	333
50%	296	313	318	233	151	91	65	44	46	56	126	219
25%	219	217	228	176	83	61	45	32	30	34	64	150
10%	173	187	159	117	60	42	32	26	24	25	46	102
5%	98	155	139	88	58	30	26	24	20	23	38	76
2%	76	132	117	79	52	21	24	20	18	21	33	62
0%	73	91	110	69	38	20	22	18	16	17	29	39

Site #: 02450825 Name: Clear Creek at New Hope Church near Poplar Springs, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 101 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	327	317	323	267	222	118	87	57	75	95	143	255
100%	742	673	792	588	685	650	385	156	357	450	472	618
98%	700	621	611	557	653	402	311	128	300	406	369	582
95%	649	573	517	546	596	264	172	115	275	261	285	559
90%	517	441	433	481	480	222	163	99	131	218	255	466
75%	419	384	389	340	324	143	100	74	93	124	217	333
50%	296	313	318	233	151	91	65	44	46	56	126	219
25%	219	217	228	176	83	61	45	32	30	34	64	150
10%	173	187	159	117	60	42	32	26	24	25	46	102
5%	98	155	139	88	58	30	26	24	20	23	38	76
2%	76	132	117	79	52	21	24	20	18	21	33	62
0%	73	91	110	69	38	20	22	18	16	17	29	39

Monthly Flows (in CFS) for

02453000 - Blackwater Creek near Manchester, Ala.

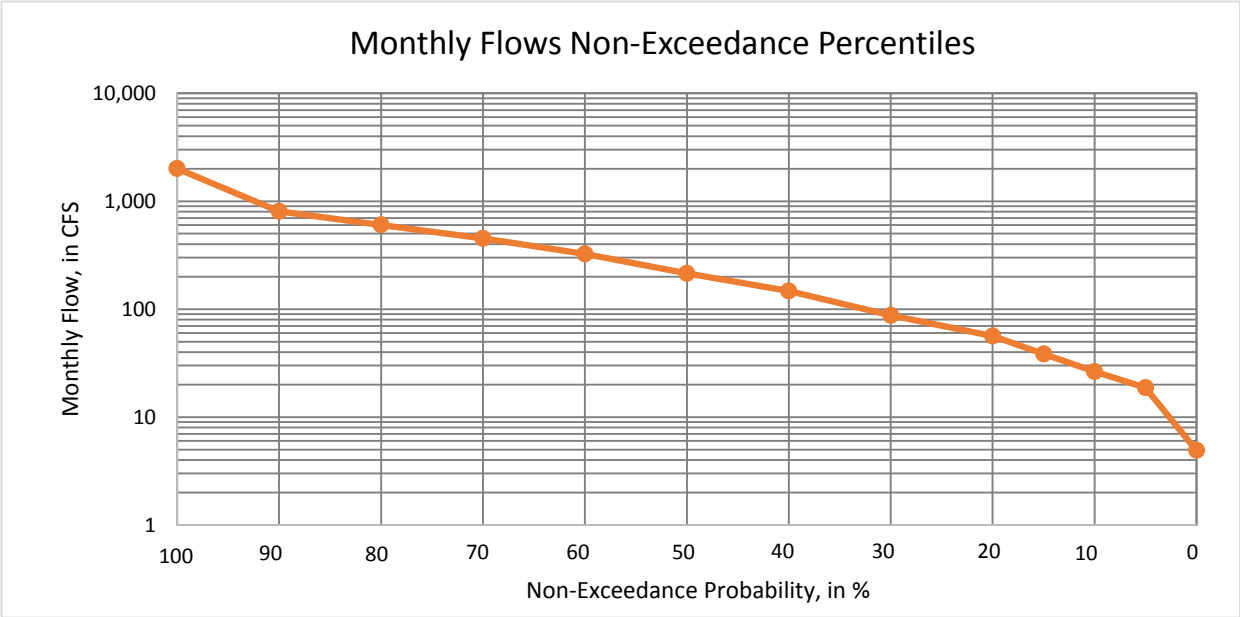
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	800	802	1,076	363	296	173	216	134	121	745	254	380	446
1976	554	457	687	262	165	212	129	49	58	64	105	224	246
1977	436	478	1,071	721	72	30	21	15	49	170	443	247	311
1978	441	211	509	134	695	404	42	26	16	15	21	150	223
1979	837	691	570	962	225	76	201	122	467	93	614	305	427
1980	599	420	2,005	1,138	440	95	25	13	57	127	438	207	464
1981	108	394	519	578	94	53	33	29	24	129	118	147	184
1982	1,102	678	431	940	198	125	134	205	37	24	184	721	397
1983	357	646	812	914	1,190	145	88	38	23	26	205	1,250	475
1984	504	352	620	781	1,319	84	40	32	19	180	370	224	378
1985	344	700	206	302	676	56	80	86	29	75	83	97	225
1986	91	308	298	85	226	230	57	21	15	63	274	366	169
1987	593	719	602	168	66	49	26	26	35	15	71	245	215
1988	447	300	154	301	64	10	46	15	49	159	405	244	182
1989	1,292	854	975	513	177	486	566	77	80	215	250	214	473
1990	1,229	1,582	891	208	378	134	48	15	10	15	33	1,127	467
1991	437	1,121	854	1,506	1,581	174	51	40	33	21	69	461	525
1992	208	465	386	167	73	144	87	229	324	56	600	525	270
1993	831	448	631	319	470	135	63	32	35	19	83	275	278
1994	667	1,124	1,168	625	104	88	279	97	72	186	256	572	433
1995	580	642	907	580	250	85	24	12	23	245	410	578	360
1996	901	478	580	530	141	187	121	69	148	78	282	661	347
1997	840	672	642	159	732	1,212	340	82	47	111	113	324	438
1998	1,204	800	772	616	95	47	115	131	26	19	39	329	347
1999	1,016	503	487	382	381	104	71	12	10	19	56	74	259
2000	206	160	676	916	61	54	21	20	5	5	113	133	197
2001	515	728	922	1,134	149	377	74	67	451	365	214	906	489
2002	605	432	508	379	686	65	130	57	190	368	675	658	397
2003	365	1,209	717	347	1,326	213	170	147	184	55	220	255	430
2004	388	1,191	624	159	110	444	427	71	96	85	456	1,030	418
2005	315	378	308	586	139	648	292	68	108	38	66	282	267
2006	602	660	452	250	269	29	14	18	47	228	515	209	272
2007	548	281	153	118	60	13	20	7	35	13	26	26	108
2008	55	331	586	220	427	73	29	24	33	24	32	780	218
2009	976	307	838	515	631	205	45	148	489	741	381	955	522
2010	601	591	647	429	530	147	50	35	10	10	50	186	273
2011	527	342	1,045	1,108	152	32	59	103	369	36	151	550	373
2012	869	458	531	154	116	57	114	142	200	261	73	386	280
2013	1,159	680	572	617	576	140	505	140	66	33	80	375	412
2014	312	682	280	662	248	298	79	33	34	186	163	692	303

Non-Exceedance Percentiles

02453000 - Blackwater Creek near Manchester, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	55	160	153	85	60	10	14	7	5	5	21	26	108
5th %	108	277	204	133	64	28	21	12	10	13	32	96	181
10th %	208	306	296	158	72	32	23	15	15	15	38	145	196
15th %	314	327	374	166	91	49	26	15	18	18	55	181	218
20th %	355	350	447	200	102	54	32	20	23	19	68	209	225
30th %	437	428	516	289	140	71	46	26	32	25	82	238	269
40th %	511	462	577	357	172	87	55	33	35	48	113	267	280
Median	567	547	622	471	237	129	72	44	47	70	173	327	347
60th %	602	665	659	579	329	144	87	68	57	100	232	382	385
70th %	809	684	784	619	449	178	123	83	85	162	277	556	421
80th %	875	743	894	808	640	217	176	124	156	192	406	667	440
90th %	1,108	1,121	1,048	977	778	408	297	142	328	271	461	911	473
Maximum	1,292	1,582	2,005	1,506	1,581	1,212	566	229	489	745	675	1,250	525
Average	612	607	668	521	390	183	123	67	103	133	225	434	337

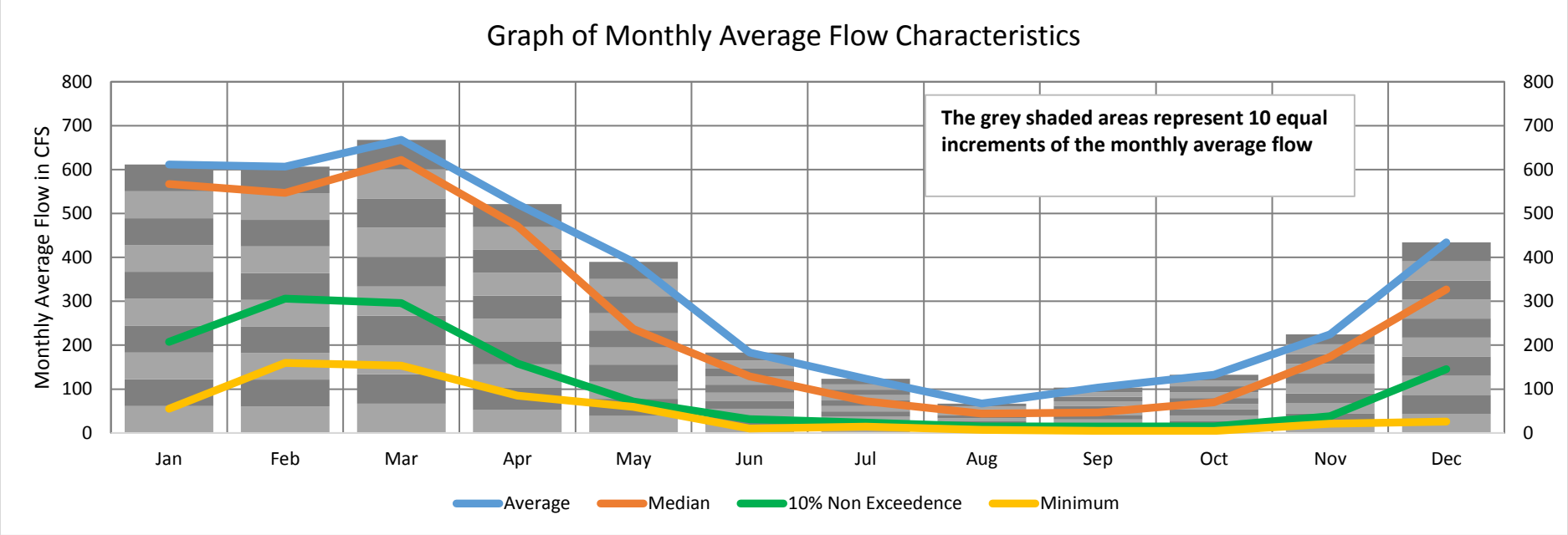
	Flows in CFS
Minimum	4.9
5th %	19
10th %	26
15th %	38
20th %	56
30th %	87
40th %	147
Median	214
60th %	324
70th %	451
80th %	602
90th %	803
Maximum	2,005
Average	339



Q10/Q50	0.12
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.03
Q5/DA	0.10
Q10/DA	0.15
Q15/DA	0.21
Q20/DA	0.31
Q30/DA	0.48
Q40/DA	0.81
Q50/DA	1.18
Q60/DA	1.79
Q70/DA	2.49
Q80/DA	3.32
Q90/DA	4.44
Qmax/DA	11.08

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

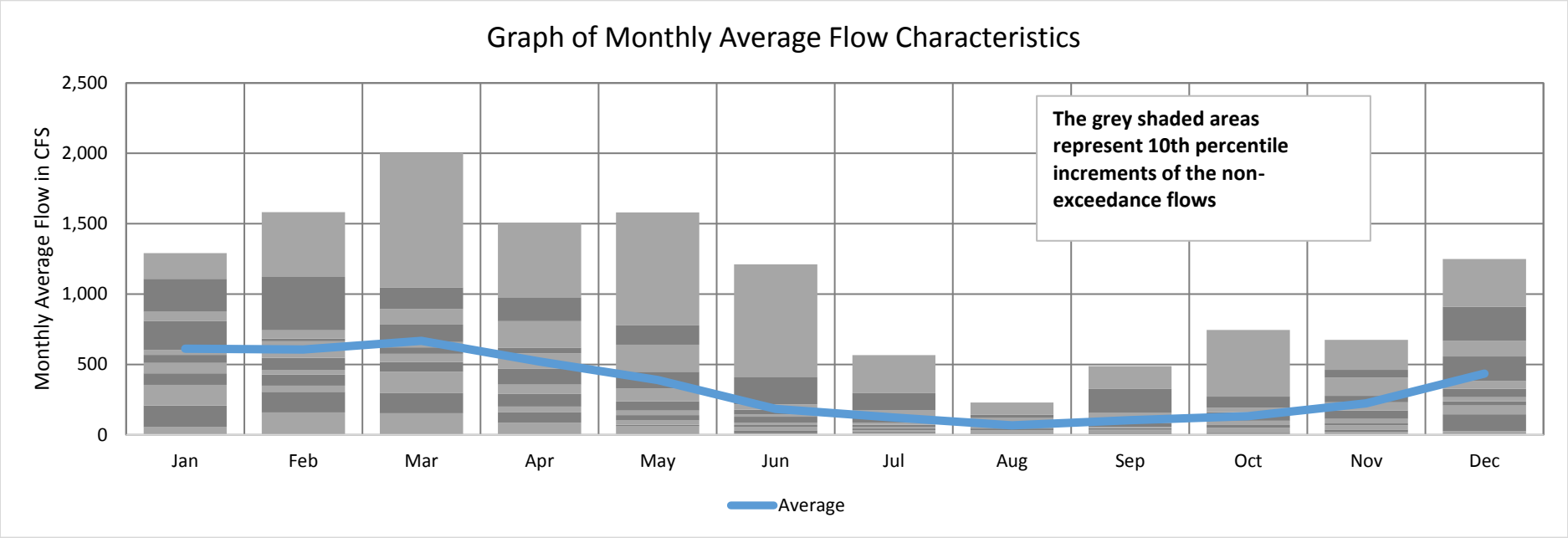
Site #: 02453000 Name: Blackwater Creek near Manchester, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	612	607	668	521	390	183	123	67	103	133	225	434
100%	1,292	1,582	2,005	1,506	1,581	1,212	566	229	489	745	675	1,250
98%	1,243	1,291	1,352	1,219	1,382	772	518	210	472	741	627	1,154
95%	1,205	1,192	1,081	1,134	1,319	494	431	150	452	387	601	1,035
90%	1,108	1,121	1,048	977	778	408	297	142	328	271	461	911
75%	838	705	842	676	542	206	131	98	111	181	373	598
50%	567	547	622	471	237	129	72	44	47	70	173	327
25%	383	390	503	242	114	56	41	24	25	23	73	221
10%	208	306	296	158	72	32	23	15	15	15	38	145
5%	108	277	204	133	64	28	21	12	10	13	32	96
2%	83	199	154	111	61	12	19	11	8.9	9.1	25	63
0%	55	160	153	85	60	10	14	7.0	4.9	5.0	21	26

Site #: 02453000 Name: Blackwater Creek near Manchester, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 181 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	612	607	668	521	390	183	123	67	103	133	225	434
100%	1,292	1,582	2,005	1,506	1,581	1,212	566	229	489	745	675	1,250
98%	1,243	1,291	1,352	1,219	1,382	772	518	210	472	741	627	1,154
95%	1,205	1,192	1,081	1,134	1,319	494	431	150	452	387	601	1,035
90%	1,108	1,121	1,048	977	778	408	297	142	328	271	461	911
75%	838	705	842	676	542	206	131	98	111	181	373	598
50%	567	547	622	471	237	129	72	44	47	70	173	327
25%	383	390	503	242	114	56	41	24	25	23	73	221
10%	208	306	296	158	72	32	23	15	15	15	38	145
5%	108	277	204	133	64	28	21	12	10	13	32	96
2%	83	199	154	111	61	12	19	11	8.9	9.1	25	63
0%	55	160	153	85	60	10	14	7.0	4.9	5.0	21	26

Monthly Flows (in CFS) for
02453500 - Mulberry Fork at Cordova, Ala.

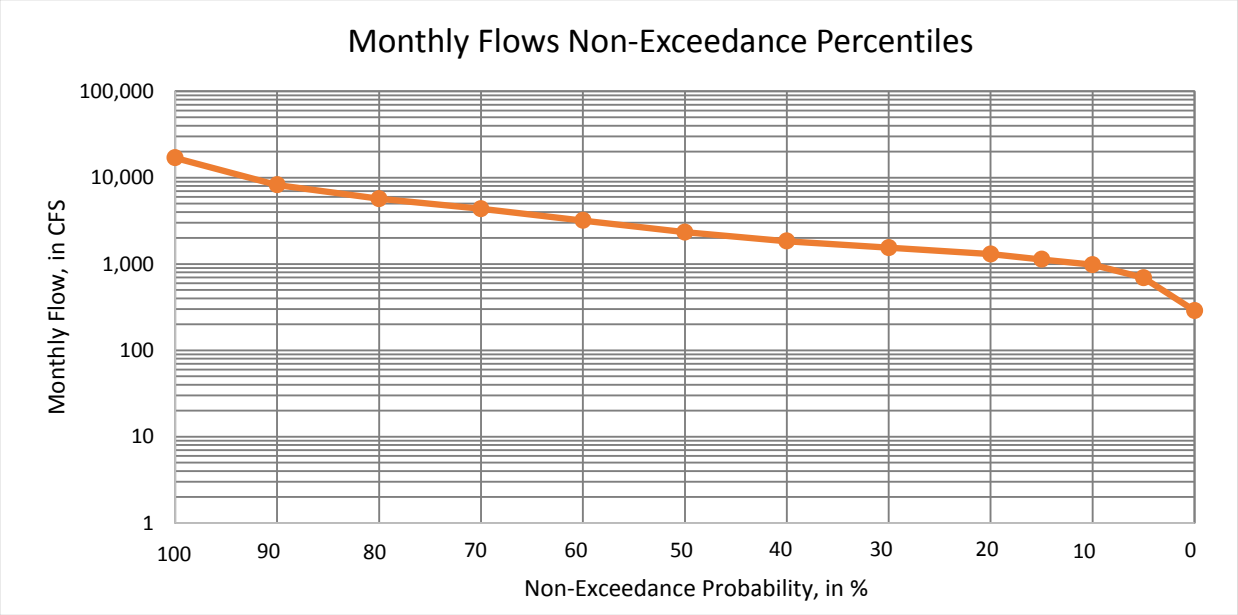
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,018	8,755	9,653	5,602	3,269	1,904	2,752	2,636	1,541	4,855	2,398	4,331	4,629
1976	6,006	4,452	9,260	4,135	6,819	2,083	1,820	1,499	1,738	1,013	1,138	2,747	3,566
1977	5,504	2,847	11,038	9,784	1,394	1,648	1,692	1,615	2,272	5,680	5,725	5,524	4,571
1978	5,690	3,691	3,452	1,206	5,012	2,891	1,670	1,613	1,349	738	704	1,539	2,463
1979	7,830	5,745	9,476	13,841	2,961	2,012	2,799	1,730	2,201	1,777	5,155	4,311	4,971
1980	5,628	4,597	15,891	12,482	5,905	1,808	1,697	1,536	1,732	1,976	2,667	3,928	4,994
1981	2,220	3,863	4,499	4,274	799	1,919	1,559	1,439	1,466	820	554	1,689	2,078
1982	7,640	7,803	4,583	7,340	2,549	2,860	2,017	1,826	1,048	755	1,382	7,822	3,946
1983	5,171	9,149	8,397	10,886	8,305	2,763	1,770	1,585	1,299	706	1,775	11,568	5,261
1984	5,586	4,537	4,314	7,792	7,162	1,563	1,531	1,571	996	757	1,468	3,752	3,415
1985	2,163	6,552	2,086	1,636	3,702	1,603	3,176	2,675	1,440	1,898	2,270	2,760	2,642
1986	1,593	2,618	2,396	734	1,021	1,994	1,315	1,193	1,397	1,158	1,960	3,577	1,742
1987	7,319	6,997	8,305	1,978	1,122	1,911	1,835	1,384	1,212	456	633	1,515	2,871
1988	3,765	3,220	1,555	2,196	749	1,061	1,068	1,203	1,649	1,567	3,109	2,822	1,987
1989	8,512	6,747	9,512	4,906	1,804	4,964	6,753	1,438	2,052	2,092	3,550	3,760	4,666
1990	8,683	16,895	9,792	2,190	2,439	1,390	1,410	1,363	1,171	540	629	4,705	4,196
1991	4,922	7,163	5,258	10,592	12,286	1,952	1,410	1,330	1,127	641	805	3,286	4,214
1992	2,411	3,647	2,492	1,379	576	1,188	1,595	2,014	2,273	1,109	4,422	5,029	2,334
1993	8,096	4,425	4,750	3,517	3,603	1,395	1,387	1,258	1,338	668	682	1,685	2,731
1994	5,230	8,322	10,431	8,604	1,548	1,608	2,299	1,999	1,505	1,695	2,646	5,678	4,272
1995	4,438	6,073	8,898	3,985	2,099	1,504	1,290	1,340	1,170	2,808	5,023	5,097	3,632
1996	7,947	6,760	8,104	4,543	1,884	1,473	2,360	1,765	1,808	979	2,429	4,375	3,690
1997	8,225	6,769	7,020	1,823	4,802	10,398	3,804	1,908	1,677	2,324	1,930	3,439	4,497
1998	11,905	9,858	8,771	7,176	1,906	1,531	1,619	1,649	1,056	771	690	2,503	4,089
1999	8,666	6,929	6,001	3,256	2,423	2,535	1,984	1,180	1,110	631	582	857	2,993
2000	2,202	1,495	10,988	11,778	984	1,063	1,070	1,092	888	448	984	969	2,832
2001	3,773	5,370	11,478	9,111	1,427	2,776	1,495	1,867	5,096	3,038	2,506	9,347	4,768
2002	7,509	5,483	4,136	3,586	5,399	1,374	2,066	1,324	1,901	2,222	5,809	6,392	3,929
2003	3,752	8,747	8,169	3,403	13,089	3,053	2,229	1,877	1,493	889	1,782	2,288	4,213
2004	3,576	9,292	5,130	1,501	1,398	2,745	2,926	1,458	2,177	1,074	6,380	9,493	3,893
2005	4,065	3,185	3,709	6,434	1,352	4,297	3,643	1,849	1,730	745	756	2,508	2,848
2006	4,103	7,222	3,636	3,185	3,199	1,233	1,157	1,439	1,039	1,117	2,840	1,932	2,644
2007	4,663	2,402	1,267	919	488	780	1,056	1,072	831	384	364	392	1,214
2008	528	2,892	3,817	2,442	4,116	1,414	1,267	1,303	1,051	462	459	4,427	2,015
2009	9,889	3,471	8,472	5,332	6,148	2,105	1,433	1,622	5,637	8,713	5,443	9,641	5,688
2010	6,116	6,878	5,933	4,282	6,033	1,870	1,292	1,194	652	345	288	997	2,971
2011	4,037	2,547	9,866	10,540	2,196	1,183	1,527	1,323	3,064	515	1,003	4,775	3,552
2012	10,190	5,376	4,108	1,566	964	739	1,262	1,617	2,335	1,798	1,170	2,855	2,826
2013	12,490	7,640	5,396	5,464	6,546	1,686	4,442	3,363	1,554	406	879	3,572	4,450
2014	4,657	5,690	2,645	7,163	2,412	3,453	1,631	1,352	1,267	2,764	1,413	5,459	3,306

Non-Exceedance Percentiles

02453500 - Mulberry Fork at Cordova, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	528	1,495	1,267	734	488	739	1,056	1,072	652	345	288	392	1,214
5th %	2,134	2,540	2,060	1,191	740	1,047	1,070	1,176	885	405	454	964	1,975
10th %	2,218	2,824	2,483	1,489	947	1,171	1,251	1,194	1,035	455	579	1,463	2,071
15th %	3,401	3,141	3,331	1,626	1,015	1,226	1,287	1,250	1,051	507	633	1,663	2,444
20th %	3,762	3,421	3,695	1,947	1,306	1,386	1,311	1,319	1,099	613	688	1,883	2,644
30th %	4,092	4,256	4,260	2,962	1,512	1,495	1,426	1,348	1,200	729	857	2,675	2,843
40th %	4,819	5,061	4,978	3,559	2,022	1,606	1,547	1,438	1,345	766	1,157	3,114	3,181
Median	5,545	5,717	5,967	4,278	2,431	1,839	1,650	1,517	1,480	996	1,621	3,665	3,599
60th %	6,050	6,753	8,223	5,385	3,227	1,932	1,790	1,614	1,592	1,133	2,084	4,319	3,936
70th %	7,697	6,950	8,809	7,167	4,322	2,089	2,032	1,673	1,733	1,783	2,548	4,726	4,214
80th %	8,122	7,673	9,540	8,706	5,930	2,766	2,438	1,853	2,077	2,118	3,197	5,472	4,512
90th %	8,804	8,795	10,487	10,622	6,853	3,093	3,223	2,001	2,280	2,831	5,184	7,974	4,788
Maximum	12,490	16,895	15,891	13,841	13,089	10,398	6,753	3,363	5,637	8,713	6,380	11,568	5,688
Average	5,868	5,903	6,617	5,314	3,547	2,193	2,028	1,612	1,708	1,583	2,160	4,084	3,540

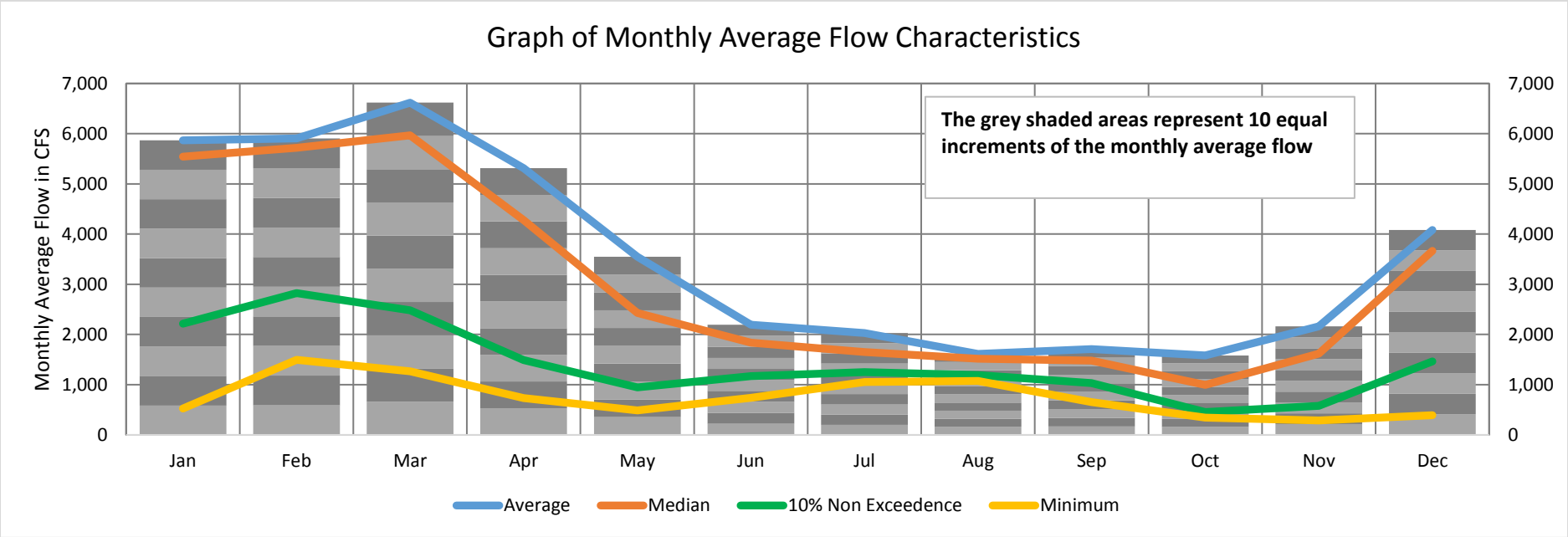
	Flows in CFS
Minimum	288.3
5th %	690
10th %	978
15th %	1,126
20th %	1,302
30th %	1,541
40th %	1,831
Median	2,330
60th %	3,185
70th %	4,344
80th %	5,678
90th %	8,233
Maximum	16,895
Average	3,551



Q10/Q50	0.42
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.15
Q5/DA	0.36
Q10/DA	0.51
Q15/DA	0.59
Q20/DA	0.68
Q30/DA	0.80
Q40/DA	0.96
Q50/DA	1.22
Q60/DA	1.66
Q70/DA	2.27
Q80/DA	2.96
Q90/DA	4.30
Qmax/DA	8.82

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

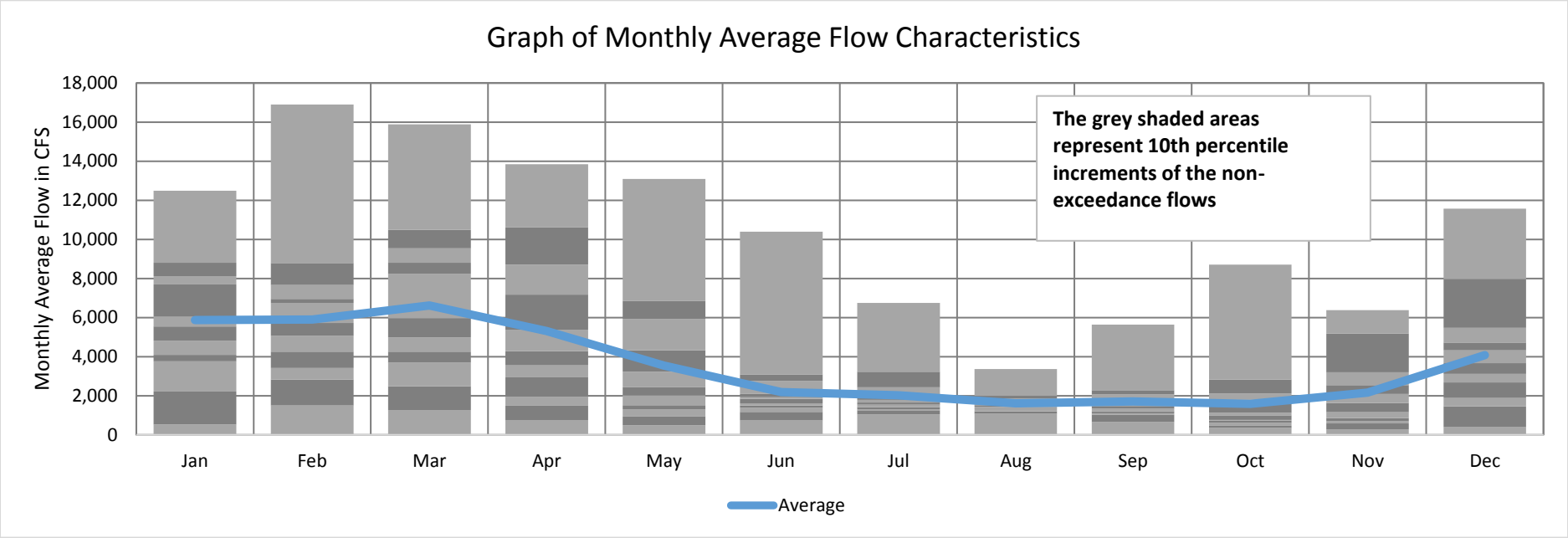
Site #: 02453500 Name: Mulberry Fork at Cordova, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,868	5,903	6,617	5,314	3,547	2,193	2,028	1,612	1,708	1,583	2,160	4,084
100%	12,490	16,895	15,891	13,841	13,089	10,398	6,753	3,363	5,637	8,713	6,380	11,568
98%	12,034	11,406	12,449	12,781	12,463	6,159	4,950	2,826	5,215	6,348	5,934	10,065
95%	10,276	9,320	11,060	11,813	8,504	4,330	3,836	2,638	3,166	4,896	5,729	9,500
90%	8,804	8,795	10,487	10,622	6,853	3,093	3,223	2,001	2,280	2,831	5,184	7,974
75%	7,965	7,178	9,314	7,453	5,109	2,588	2,246	1,780	1,831	1,917	2,710	5,046
50%	5,545	5,717	5,967	4,278	2,431	1,839	1,650	1,517	1,480	996	1,621	3,665
25%	3,971	3,680	4,035	2,195	1,397	1,409	1,404	1,329	1,159	661	743	2,449
10%	2,218	2,824	2,483	1,489	947	1,171	1,251	1,194	1,035	455	579	1,463
5%	2,134	2,540	2,060	1,191	740	1,047	1,070	1,176	885	405	454	964
2%	1,359	2,203	1,491	878	557	771	1,065	1,087	791	375	348	755
0%	528	1,495	1,267	734	488	739	1,056	1,072	652	345	288	392

Site #: 02453500 Name: Mulberry Fork at Cordova, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,916 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,868	5,903	6,617	5,314	3,547	2,193	2,028	1,612	1,708	1,583	2,160	4,084
100%	12,490	16,895	15,891	13,841	13,089	10,398	6,753	3,363	5,637	8,713	6,380	11,568
98%	12,034	11,406	12,449	12,781	12,463	6,159	4,950	2,826	5,215	6,348	5,934	10,065
95%	10,276	9,320	11,060	11,813	8,504	4,330	3,836	2,638	3,166	4,896	5,729	9,500
90%	8,804	8,795	10,487	10,622	6,853	3,093	3,223	2,001	2,280	2,831	5,184	7,974
75%	7,965	7,178	9,314	7,453	5,109	2,588	2,246	1,780	1,831	1,917	2,710	5,046
50%	5,545	5,717	5,967	4,278	2,431	1,839	1,650	1,517	1,480	996	1,621	3,665
25%	3,971	3,680	4,035	2,195	1,397	1,409	1,404	1,329	1,159	661	743	2,449
10%	2,218	2,824	2,483	1,489	947	1,171	1,251	1,194	1,035	455	579	1,463
5%	2,134	2,540	2,060	1,191	740	1,047	1,070	1,176	885	405	454	964
2%	1,359	2,203	1,491	878	557	771	1,065	1,087	791	375	348	755
0%	528	1,495	1,267	734	488	739	1,056	1,072	652	345	288	392

Monthly Flows (in CFS) for
02454055 - Lost Creek above Parrish, Ala.

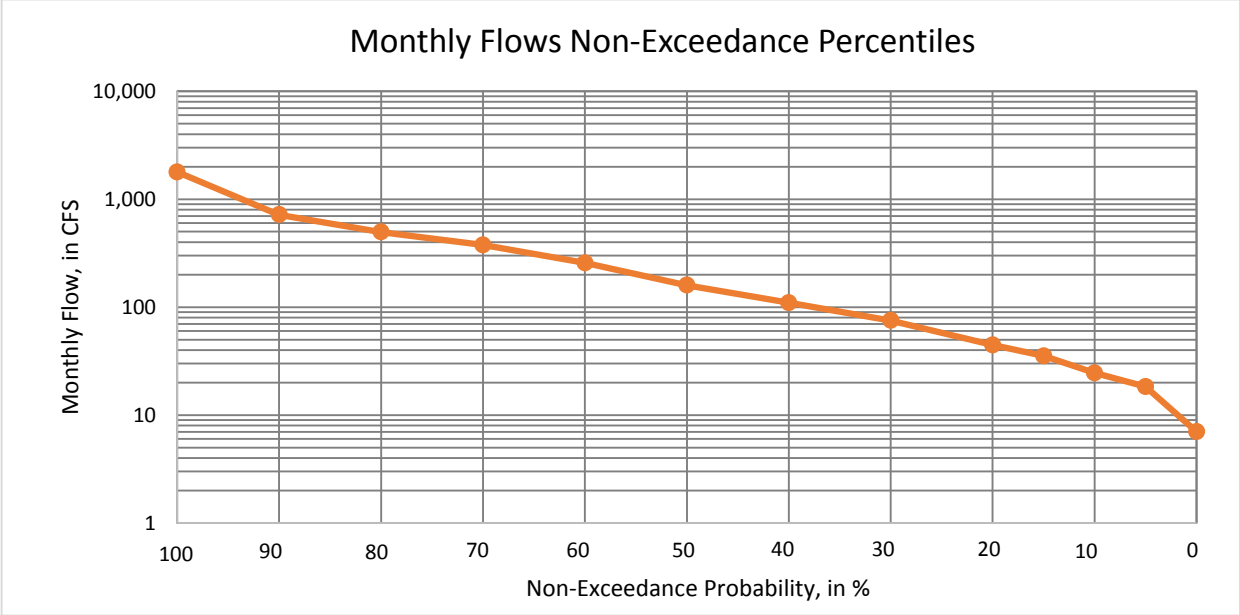
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	914	983	768	272	311	114	185	305	80	562	98	251	402
1976	558	418	1,136	294	734	144	89	41	50	37	63	209	315
1977	568	406	1,016	980	55	30	51	51	129	496	457	332	380
1978	481	189	458	138	496	205	38	35	20	17	27	110	186
1979	921	602	806	1,538	119	67	138	59	475	76	476	257	458
1980	624	341	1,787	1,069	404	80	41	31	61	94	283	178	417
1981	92	352	530	392	61	86	33	20	11	23	27	115	144
1982	642	715	299	654	125	151	82	116	21	34	180	856	320
1983	471	1,199	1,145	1,127	732	121	49	44	50	49	270	1,603	569
1984	436	482	575	841	465	67	63	39	15	62	109	107	270
1985	138	821	143	188	372	72	72	105	36	157	85	185	194
1986	93	256	282	66	86	88	22	16	12	42	174	257	115
1987	527	840	462	116	78	76	29	18	11	10	23	51	183
1988	194	278	117	241	76	23	15	11	93	71	284	154	128
1989	874	596	686	372	192	585	541	59	68	129	319	220	386
1990	1,001	1,494	780	220	259	168	87	23	14	22	39	328	363
1991	249	799	705	1,301	1,228	206	69	58	52	35	92	265	419
1992	201	456	285	170	60	134	84	153	94	29	384	378	200
1993	698	338	386	203	317	94	45	20	20	10	36	157	194
1994	556	824	1,140	515	108	86	136	80	66	143	170	414	351
1995	442	549	711	376	119	55	22	30	31	187	376	508	282
1996	763	408	560	442	109	141	130	72	113	46	213	443	286
1997	686	575	472	118	545	829	246	66	35	110	71	234	331
1998	1,017	644	533	458	82	61	65	118	31	25	33	276	277
1999	783	402	407	257	268	63	82	19	10	13	30	27	196
2000	229	148	802	735	52	23	11	23	7	8	86	114	186
2001	432	570	804	628	178	238	53	34	310	298	218	782	377
2002	517	391	388	255	581	77	139	41	122	292	516	520	320
2003	285	1,035	575	291	1,486	173	129	106	89	39	166	185	376
2004	316	1,097	447	125	85	321	195	42	99	36	434	745	323
2005	262	319	280	542	129	642	280	131	105	40	46	242	250
2006	488	610	393	125	159	31	17	21	26	191	414	210	221
2007	431	208	97	77	27	12	35	12	21	9	17	11	79
2008	46	282	489	161	392	55	22	40	24	19	26	614	181
2009	987	326	778	465	357	146	44	92	565	773	298	680	461
2010	493	456	619	376	495	89	62	31	14	11	37	94	231
2011	340	233	841	934	126	37	57	144	496	48	112	366	311
2012	647	344	533	107	94	62	95	61	101	134	41	312	211
2013	1,017	570	422	448	487	82	210	160	38	22	39	242	311
2014	194	554	243	668	148	148	43	21	21	62	66	440	214

Non-Exceedance Percentiles

02454055 - Lost Creek above Parrish, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	46	148	97	66	27	12	11	11	7	8	17	11	79
5th %	93	207	142	106	55	23	17	16	11	9	26	50	128
10th %	188	254	276	118	61	31	22	19	12	10	27	106	177
15th %	200	281	284	125	78	52	28	20	14	17	32	114	185
20th %	245	324	368	156	84	60	35	21	19	22	37	147	192
30th %	333	349	417	215	108	67	44	31	21	28	44	185	208
40th %	440	407	468	266	126	79	52	38	31	36	79	229	242
Median	490	469	533	374	169	87	64	42	44	44	104	254	284
60th %	557	570	592	444	285	117	82	58	63	62	172	290	317
70th %	643	605	728	523	378	145	91	68	90	99	233	370	337
80th %	767	804	802	682	489	169	137	105	101	146	302	456	378
90th %	928	988	1,028	989	596	246	196	132	147	293	416	686	417
Maximum	1,017	1,494	1,787	1,538	1,486	829	541	305	565	773	516	1,603	569
Average	515	553	597	457	305	147	95	64	91	111	171	337	286

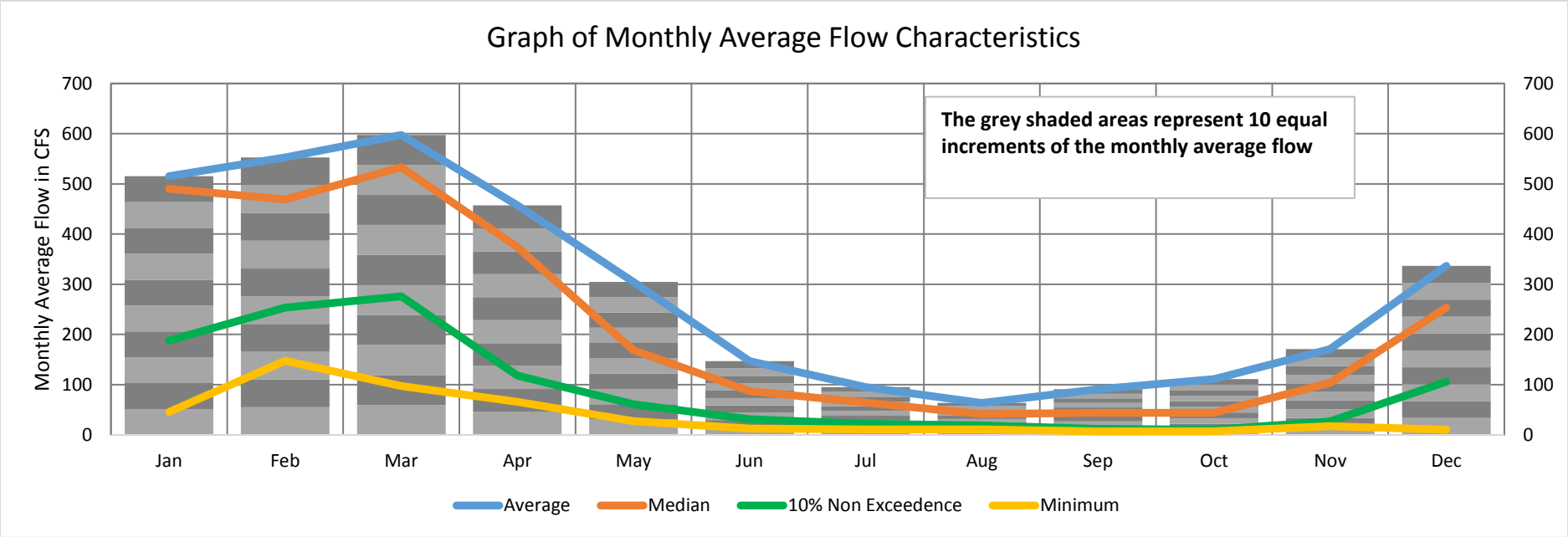
	Flows in CFS
Minimum	7.0
5th %	18
10th %	25
15th %	35
20th %	45
30th %	75
40th %	110
Median	160
60th %	257
70th %	377
80th %	496
90th %	717
Maximum	1,787
Average	287



Q10/Q50	0.15
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.05
Q5/DA	0.13
Q10/DA	0.17
Q15/DA	0.25
Q20/DA	0.31
Q30/DA	0.52
Q40/DA	0.77
Q50/DA	1.12
Q60/DA	1.80
Q70/DA	2.63
Q80/DA	3.47
Q90/DA	5.01
Qmax/DA	12.50

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

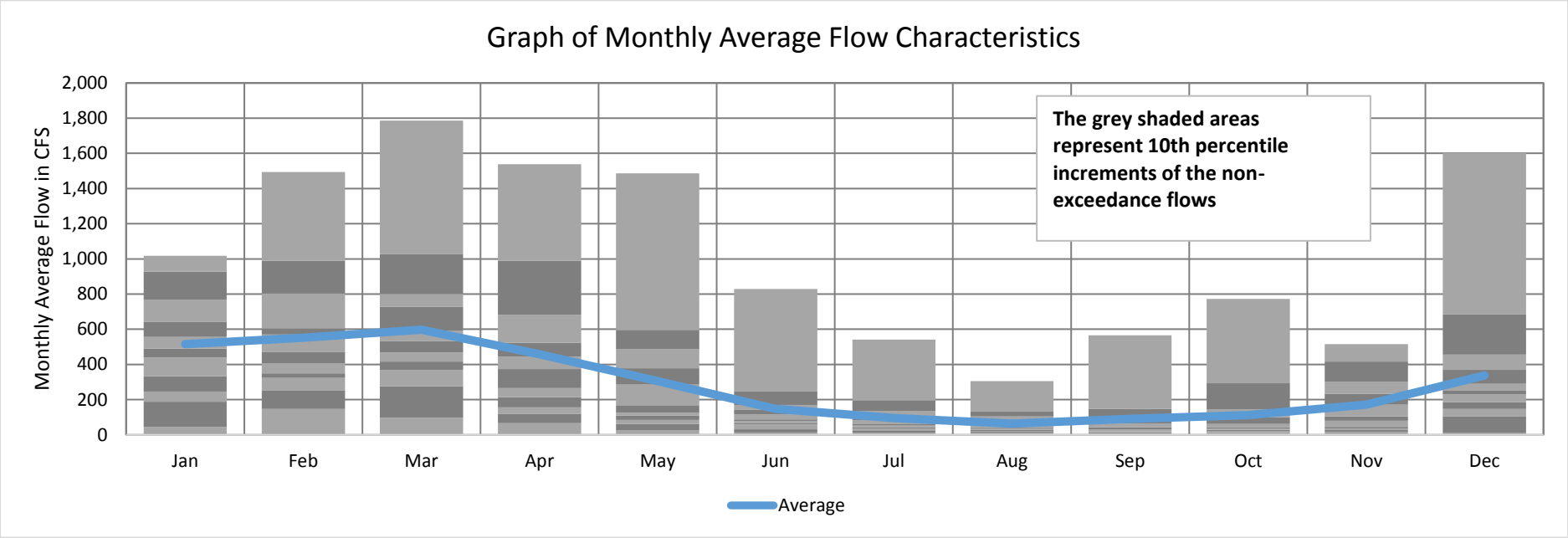
Site #: 02454055 Name: Lost Creek above Parrish, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	515	553	597	457	305	147	95	64	91	111	171	337
100%	1,017	1,494	1,787	1,538	1,486	829	541	305	565	773	516	1,603
98%	1,017	1,264	1,287	1,353	1,285	683	337	192	511	608	484	1,021
95%	1,001	1,102	1,140	1,136	758	588	248	153	476	499	457	785
90%	928	988	1,028	989	596	246	196	132	147	293	416	686
75%	689	662	779	634	420	149	129	83	95	130	283	420
50%	490	469	533	374	169	87	64	42	44	44	104	254
25%	279	341	391	183	92	63	40	23	21	23	39	172
10%	188	254	276	118	61	31	22	19	12	10	27	106
5%	93	207	142	106	55	23	17	16	11	9.5	26	50
2%	82	180	113	75	47	20	14	12	9.4	8.4	22	23
0%	46	148	97	66	27	12	11	11	7.0	7.5	17	11

Site #: 02454055 Name: Lost Creek above Parrish, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 143 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	515	553	597	457	305	147	95	64	91	111	171	337
100%	1,017	1,494	1,787	1,538	1,486	829	541	305	565	773	516	1,603
98%	1,017	1,264	1,287	1,353	1,285	683	337	192	511	608	484	1,021
95%	1,001	1,102	1,140	1,136	758	588	248	153	476	499	457	785
90%	928	988	1,028	989	596	246	196	132	147	293	416	686
75%	689	662	779	634	420	149	129	83	95	130	283	420
50%	490	469	533	374	169	87	64	42	44	44	104	254
25%	279	341	391	183	92	63	40	23	21	23	39	172
10%	188	254	276	118	61	31	22	19	12	10	27	106
5%	93	207	142	106	55	23	17	16	11	9.5	26	50
2%	82	180	113	75	47	20	14	12	9.4	8.4	22	23
0%	46	148	97	66	27	12	11	11	7.0	7.5	17	11

Monthly Flows (in CFS) for
02455000 - Locust Fork near Cleveland, Ala.

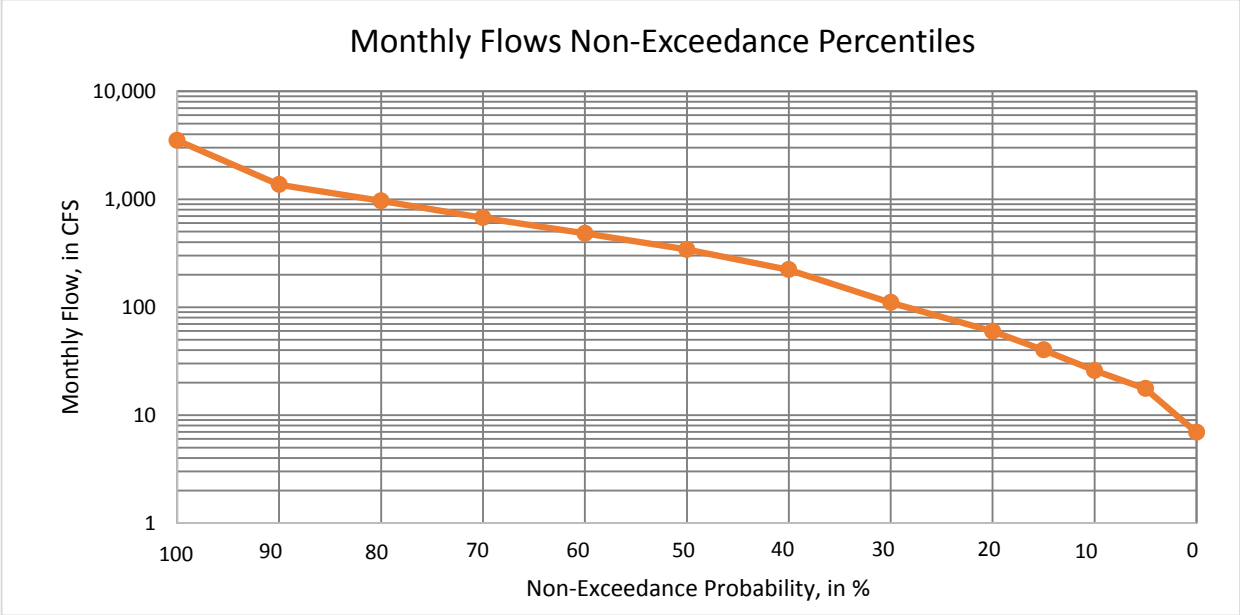
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,513	1,763	1,510	523	341	189	426	419	432	664	417	526	722
1976	1,369	725	1,819	553	398	487	205	67	51	22	65	470	520
1977	875	571	2,119	1,627	91	22	23	21	408	942	1,366	569	719
1978	1,095	336	671	296	736	136	39	121	17	11	16	224	310
1979	1,302	1,210	1,693	2,043	319	190	58	31	503	241	908	313	728
1980	878	790	3,508	1,490	705	114	28	19	349	391	414	299	750
1981	136	937	802	734	77	256	35	169	85	35	46	640	325
1982	2,053	1,361	666	1,338	325	101	135	57	36	39	198	1,958	686
1983	624	1,238	1,166	1,617	1,622	284	62	19	17	16	334	1,896	739
1984	860	522	634	971	891	95	42	99	18	64	197	358	396
1985	315	1,435	438	376	444	92	522	343	71	230	377	533	425
1986	298	456	377	105	280	156	32	42	48	115	487	441	235
1987	192	996	1,378	475	96	172	373	23	18	9	26	80	316
1988	635	610	291	531	100	17	34	14	405	212	591	399	317
1989	1,769	1,062	1,546	939	342	1,256	1,113	75	132	359	655	555	816
1990	1,601	2,736	1,457	317	329	127	67	19	18	14	29	310	573
1991	514	1,200	930	964	1,369	207	60	66	55	18	60	335	477
1992	428	780	665	391	89	125	232	193	348	141	1,217	1,218	483
1993	1,637	653	1,042	561	316	64	28	77	16	15	40	162	384
1994	925	1,161	1,228	1,085	206	119	454	143	174	541	373	1,049	619
1995	865	1,223	1,229	313	146	60	31	40	53	1,176	888	720	559
1996	1,708	921	1,191	464	131	77	103	79	350	147	289	728	515
1997	1,222	1,001	1,253	402	1,029	1,706	351	106	177	585	367	495	723
1998	1,603	1,632	1,177	1,529	235	240	42	49	11	9	22	245	559
1999	1,029	1,218	833	489	355	655	275	27	12	14	21	26	407
2000	209	218	859	1,303	90	54	17	29	17	7	247	195	269
2001	607	1,070	1,900	798	163	394	279	87	226	83	139	861	548
2002	1,110	680	805	704	713	90	65	38	165	436	925	1,306	587
2003	532	1,449	1,207	580	1,402	447	267	66	45	27	60	168	516
2004	547	1,446	724	194	132	260	330	78	574	329	2,167	1,366	671
2005	384	640	834	998	143	197	477	81	26	19	47	264	340
2006	758	837	688	793	518	44	16	23	76	368	525	246	405
2007	776	291	377	308	68	27	45	14	18	7	11	37	165
2008	138	570	845	352	400	85	16	256	38	18	27	1,186	328
2009	1,664	577	1,311	803	1,608	261	113	157	389	1,031	684	1,596	855
2010	912	990	1,176	676	864	243	43	30	16	20	22	88	421
2011	515	505	1,657	1,483	227	96	105	20	1,190	74	461	1,509	653
2012	1,706	771	1,014	228	69	44	80	43	179	112	58	626	411
2013	2,104	1,339	909	1,159	1,434	455	299	993	240	46	131	1,208	860
2014	649	1,525	704	1,438	520	226	54	28	22	85	89	623	489

Non-Exceedance Percentiles

02455000 - Locust Fork near Cleveland, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	136	218	291	105	68	17	16	14	11	7	11	26	165
5th %	189	333	377	227	76	27	17	18	16	9	21	77	268
10th %	289	500	614	307	89	44	27	19	17	10	22	154	315
15th %	374	563	666	316	95	59	31	21	17	14	27	191	324
20th %	497	576	684	372	125	75	33	23	18	16	38	240	338
30th %	589	671	804	472	158	94	42	29	24	19	59	307	407
40th %	714	786	853	544	262	117	56	41	47	37	114	383	457
Median	870	963	1,028	690	327	146	66	62	63	79	223	510	515
60th %	967	1,065	1,183	800	372	193	108	76	145	125	370	590	559
70th %	1,246	1,212	1,236	979	519	241	242	82	193	233	430	722	629
80th %	1,601	1,343	1,468	1,310	762	265	305	126	349	373	604	1,190	720
90th %	1,706	1,457	1,706	1,494	1,372	458	429	199	410	593	909	1,380	740
Maximum	2,104	2,736	3,508	2,043	1,622	1,706	1,113	993	1,190	1,176	2,167	1,958	860
Average	951	986	1,116	799	483	247	174	107	176	217	375	646	521

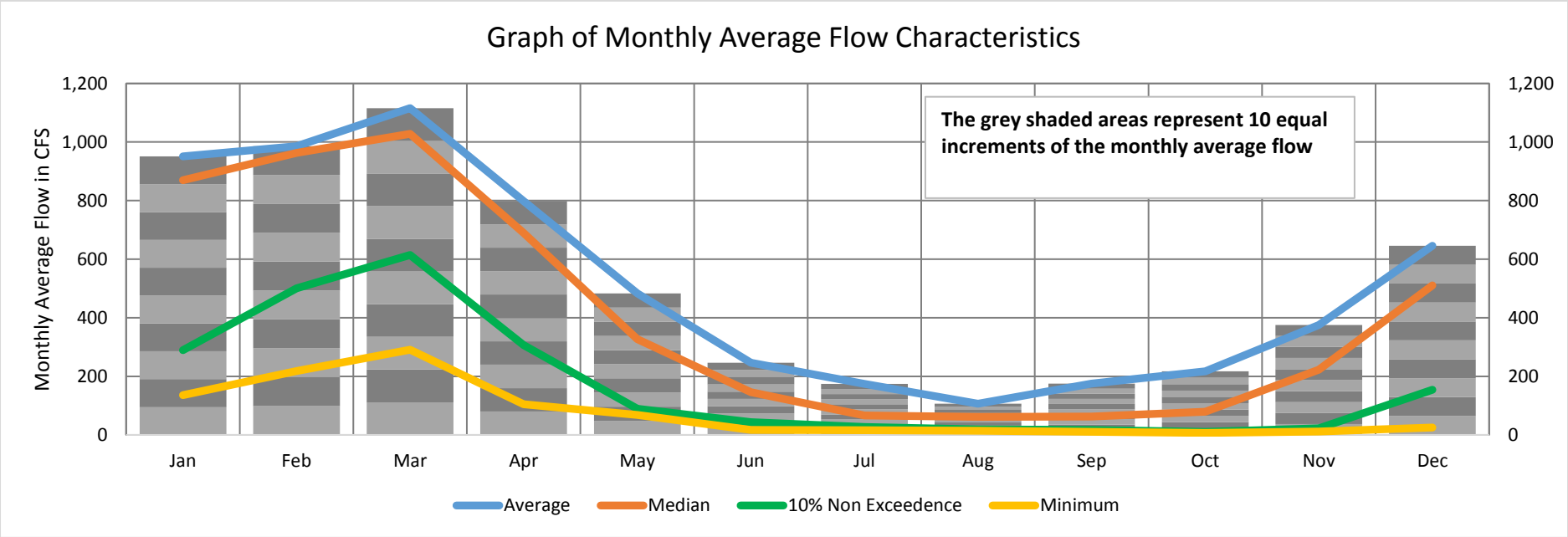
	Flows in CFS
Minimum	6.9
5th %	18
10th %	26
15th %	40
20th %	60
30th %	110
40th %	222
Median	341
60th %	481
70th %	673
80th %	965
90th %	1,362
Maximum	3,508
Average	523



Q10/Q50	0.08
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.02
Q5/DA	0.06
Q10/DA	0.09
Q15/DA	0.13
Q20/DA	0.20
Q30/DA	0.36
Q40/DA	0.73
Q50/DA	1.13
Q60/DA	1.59
Q70/DA	2.22
Q80/DA	3.19
Q90/DA	4.49
Qmax/DA	11.58

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

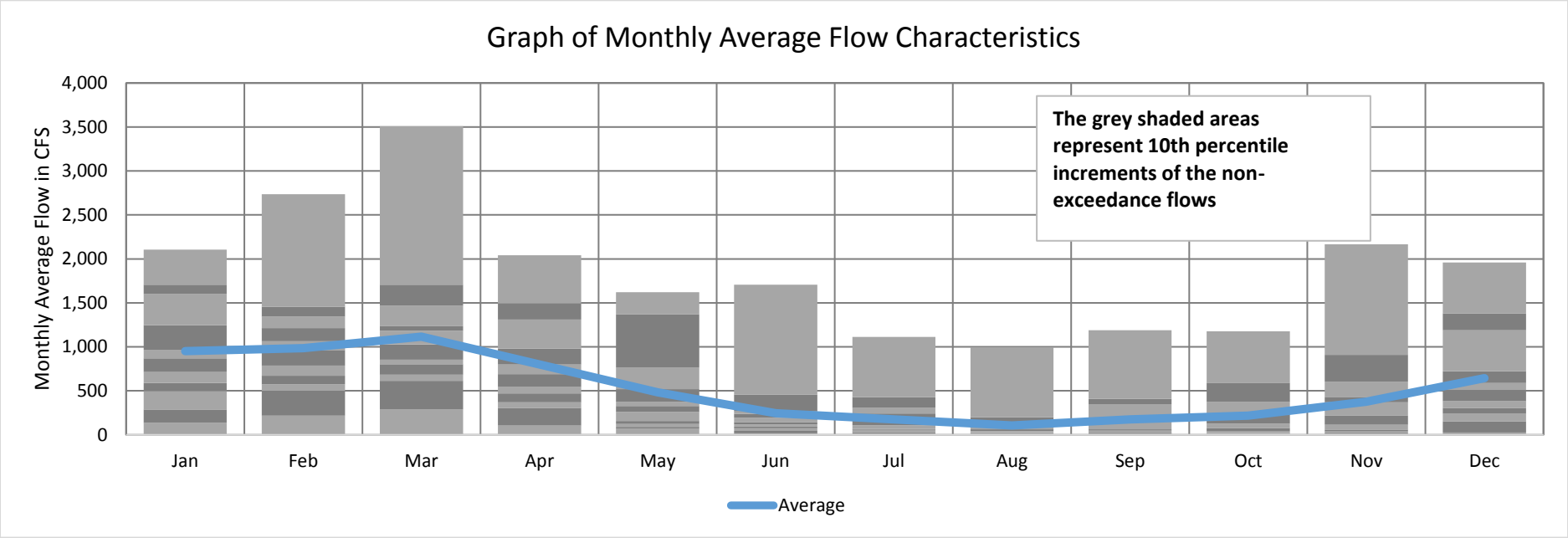
Site #: 02455000 Name: Locust Fork near Cleveland, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	951	986	1,116	799	483	247	174	107	176	217	375	646
100%	2,104	2,736	3,508	2,043	1,622	1,706	1,113	993	1,190	1,176	2,167	1,958
98%	2,064	1,977	2,425	1,719	1,611	1,355	652	545	709	1,063	1,542	1,910
95%	1,783	1,639	1,911	1,618	1,443	685	480	347	506	947	1,224	1,611
90%	1,706	1,457	1,706	1,494	1,372	458	429	199	410	593	909	1,380
75%	1,405	1,227	1,328	1,104	707	257	276	101	267	336	497	908
50%	870	963	1,028	690	327	146	66	62	63	79	223	510
25%	528	632	719	400	140	89	38	27	18	18	47	260
10%	289	500	614	307	89	44	27	19	17	10	22	154
5%	189	333	377	227	76	27	17	18	16	8.5	21	77
2%	137	275	358	174	69	21	16	14	12	7.1	15	34
0%	136	218	291	105	68	17	16	14	11	6.9	11	26

Site #: 02455000 Name: Locust Fork near Cleveland, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 303 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	951	986	1,116	799	483	247	174	107	176	217	375	646
100%	2,104	2,736	3,508	2,043	1,622	1,706	1,113	993	1,190	1,176	2,167	1,958
98%	2,064	1,977	2,425	1,719	1,611	1,355	652	545	709	1,063	1,542	1,910
95%	1,783	1,639	1,911	1,618	1,443	685	480	347	506	947	1,224	1,611
90%	1,706	1,457	1,706	1,494	1,372	458	429	199	410	593	909	1,380
75%	1,405	1,227	1,328	1,104	707	257	276	101	267	336	497	908
50%	870	963	1,028	690	327	146	66	62	63	79	223	510
25%	528	632	719	400	140	89	38	27	18	18	47	260
10%	289	500	614	307	89	44	27	19	17	10	22	154
5%	189	333	377	227	76	27	17	18	16	8.5	21	77
2%	137	275	358	174	69	21	16	14	12	7.1	15	34
0%	136	218	291	105	68	17	16	14	11	6.9	11	26

Monthly Flows (in CFS) for

02455280 - Little Warrior River near Locust Fork, Ala.

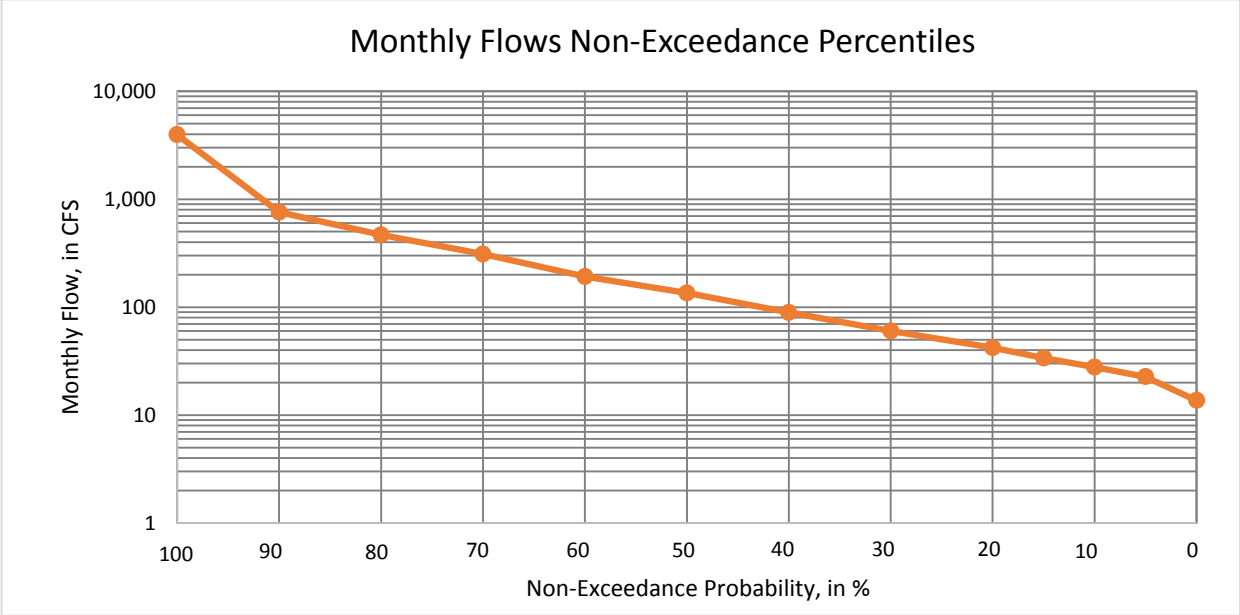
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	858	1,223	1,088	280	155	78	158	174	116	249	144	211	390
1976	860	331	1,679	412	339	167	88	55	57	29	49	224	360
1977	465	249	1,512	1,188	62	32	31	29	168	557	716	262	440
1978	673	159	390	116	387	82	39	61	26	14	24	103	174
1979	751	502	1,090	2,164	143	113	46	64	466	120	423	109	496
1980	456	409	3,949	1,136	449	72	32	30	112	160	163	118	594
1981	60	444	413	377	50	75	33	40	50	29	29	190	147
1982	1,038	787	317	716	164	126	83	60	34	46	65	1,189	384
1983	264	829	597	966	1,107	141	44	26	24	28	170	1,452	469
1984	453	235	361	697	501	53	35	55	22	35	82	136	222
1985	117	837	162	138	194	44	348	126	36	79	119	181	194
1986	111	189	145	52	67	61	26	33	42	59	193	175	95
1987	84	465	767	188	52	78	148	25	22	17	26	47	158
1988	260	248	118	212	54	21	30	20	160	91	239	158	133
1989	1,188	511	932	429	136	660	548	46	65	143	270	223	429
1990	991	2,935	842	127	132	63	43	23	22	20	28	125	430
1991	205	615	423	444	758	89	40	42	38	22	40	134	235
1992	169	335	275	155	50	62	97	84	138	85	462	617	210
1993	999	342	605	259	184	52	29	39	20	23	32	88	223
1994	353	388	712	697	111	97	153	48	42	112	120	485	276
1995	317	534	791	219	89	48	29	24	37	569	422	303	281
1996	1,186	498	773	241	127	47	69	45	87	43	86	180	282
1997	621	565	621	250	490	1,436	248	61	84	210	155	184	408
1998	1,246	1,010	631	767	92	73	41	43	20	18	28	123	337
1999	605	489	430	182	127	253	128	29	20	23	28	32	194
2000	101	102	626	1,015	50	34	21	20	19	16	80	70	179
2001	288	526	1,608	784	93	165	96	49	330	62	62	442	375
2002	545	309	336	287	307	53	77	34	72	132	319	619	258
2003	220	762	753	209	1,797	200	124	49	37	26	36	59	355
2004	167	1,014	311	104	65	146	123	49	203	121	1,816	695	394
2005	140	256	471	643	91	96	205	54	29	24	32	114	179
2006	288	471	304	342	211	36	25	29	43	76	123	79	167
2007	322	143	126	75	36	21	32	16	23	14	18	25	71
2008	51	203	289	146	259	64	27	77	32	20	22	341	128
2009	1,384	239	1,078	443	618	119	53	63	210	511	349	786	492
2010	452	485	751	318	354	140	45	35	26	27	32	60	226
2011	157	172	795	575	87	41	53	26	634	45	123	550	272
2012	741	314	392	79	58	40	50	77	96	57	38	294	187
2013	1,226	664	415	466	841	179	144	320	65	28	55	420	402
2014	253	779	292	942	179	98	35	26	23	42	50	236	242

Non-Exceedance Percentiles

02455280 - Little Warrior River near Locust Fork, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	51	102	118	52	36	21	21	16	19	14	18	25	71
5th %	83	158	144	79	50	32	26	20	20	15	24	46	126
10th %	110	187	263	115	52	36	29	24	22	18	27	60	146
15th %	136	230	292	136	57	41	30	26	22	20	28	78	165
20th %	165	246	310	153	65	46	32	26	23	23	31	100	178
30th %	243	313	381	211	90	53	35	30	28	27	37	121	194
40th %	288	370	420	256	120	63	42	38	36	29	53	149	225
Median	402	468	601	330	140	77	48	44	42	44	81	182	265
60th %	497	500	664	435	181	92	72	49	60	60	121	223	304
70th %	693	543	769	595	273	115	97	55	85	87	157	296	377
80th %	886	765	860	726	400	142	131	61	121	123	245	450	403
90th %	1,186	855	1,133	971	632	181	162	78	204	214	422	626	443
Maximum	1,384	2,935	3,949	2,164	1,797	1,436	548	320	634	569	1,816	1,452	594
Average	517	539	704	471	277	136	92	55	94	100	182	296	287

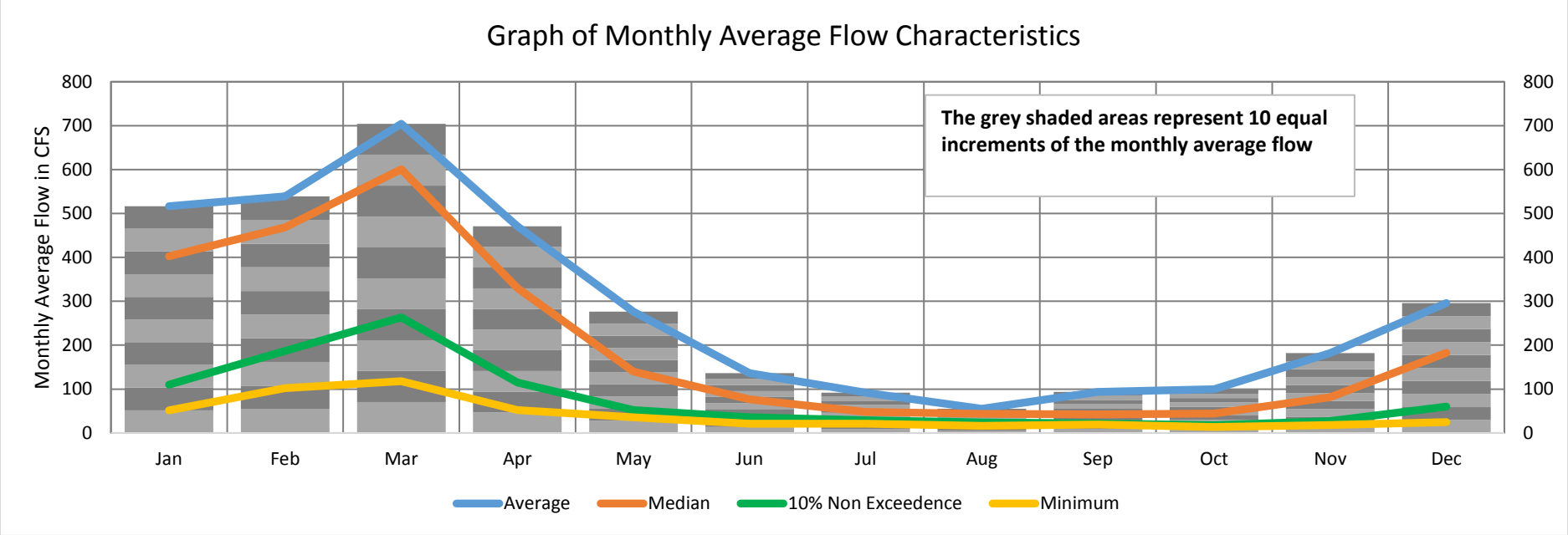
	Flows in CFS
Minimum	13.7
5th %	23
10th %	28
15th %	34
20th %	42
30th %	60
40th %	89
Median	135
60th %	192
70th %	310
80th %	466
90th %	758
Maximum	3,949
Average	289



Q10/Q50	0.21
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.07
Q5/DA	0.12
Q10/DA	0.15
Q15/DA	0.18
Q20/DA	0.23
Q30/DA	0.32
Q40/DA	0.48
Q50/DA	0.73
Q60/DA	1.03
Q70/DA	1.67
Q80/DA	2.50
Q90/DA	4.08
Qmax/DA	21.23

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

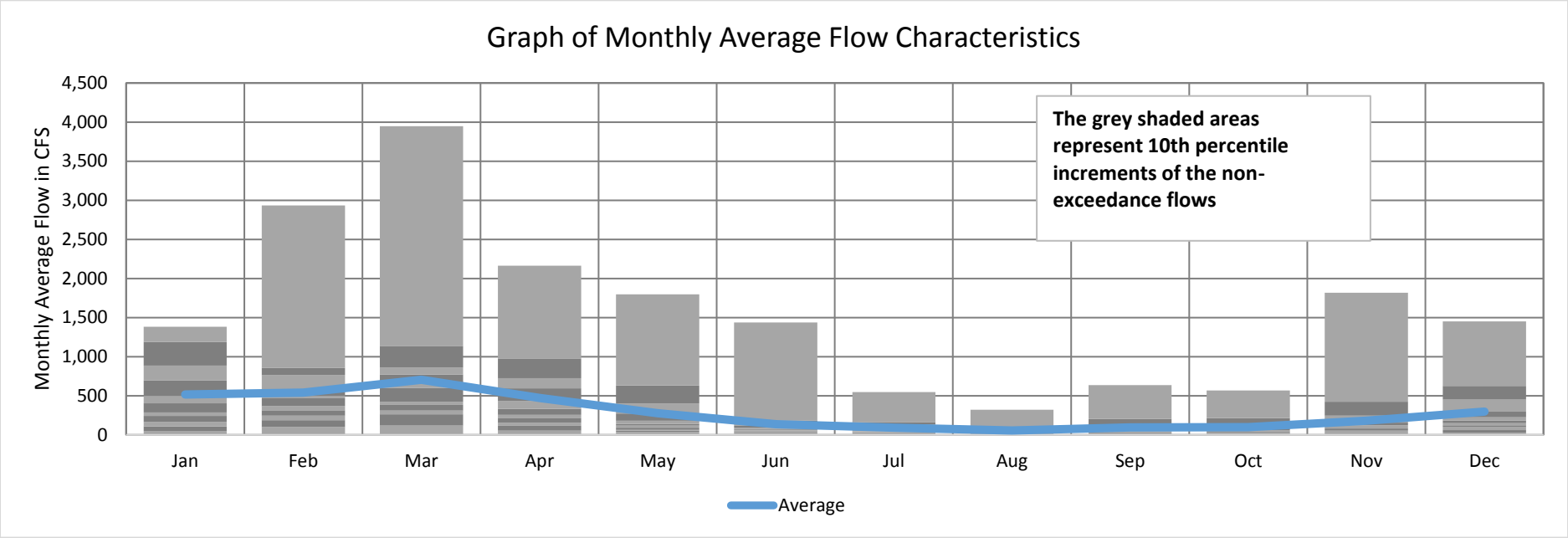
Site #: 02455280 Name: Little Warrior River near Locust Fork, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	517	539	704	471	277	136	92	55	94	100	182	296
100%	1,384	2,935	3,949	2,164	1,797	1,436	548	320	634	569	1,816	1,452
98%	1,277	1,599	2,178	1,402	1,259	831	392	206	503	559	958	1,247
95%	1,227	1,025	1,611	1,138	854	273	253	128	337	514	474	806
90%	1,186	855	1,133	971	632	181	162	78	204	214	422	626
75%	777	627	792	697	342	129	123	60	100	114	176	361
50%	402	468	601	330	140	77	48	44	42	44	81	182
25%	196	254	331	187	82	51	33	29	25	24	32	112
10%	110	187	263	115	52	36	29	24	22	18	27	60
5%	83	158	144	79	50	32	26	20	20	15	24	46
2%	58	134	124	70	46	21	24	19	19	14	21	31
0%	51	102	118	52	36	21	21	16	19	14	18	25

Site #: 02455280 Name: Little Warrior River near Locust Fork, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 186 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	517	539	704	471	277	136	92	55	94	100	182	296
100%	1,384	2,935	3,949	2,164	1,797	1,436	548	320	634	569	1,816	1,452
98%	1,277	1,599	2,178	1,402	1,259	831	392	206	503	559	958	1,247
95%	1,227	1,025	1,611	1,138	854	273	253	128	337	514	474	806
90%	1,186	855	1,133	971	632	181	162	78	204	214	422	626
75%	777	627	792	697	342	129	123	60	100	114	176	361
50%	402	468	601	330	140	77	48	44	42	44	81	182
25%	196	254	331	187	82	51	33	29	25	24	32	112
10%	110	187	263	115	52	36	29	24	22	18	27	60
5%	83	158	144	79	50	32	26	20	20	15	24	46
2%	58	134	124	70	46	21	24	19	19	14	21	31
0%	51	102	118	52	36	21	21	16	19	14	18	25

Monthly Flows (in CFS) for
02455500 - Locust Fork at Trafford, Ala.

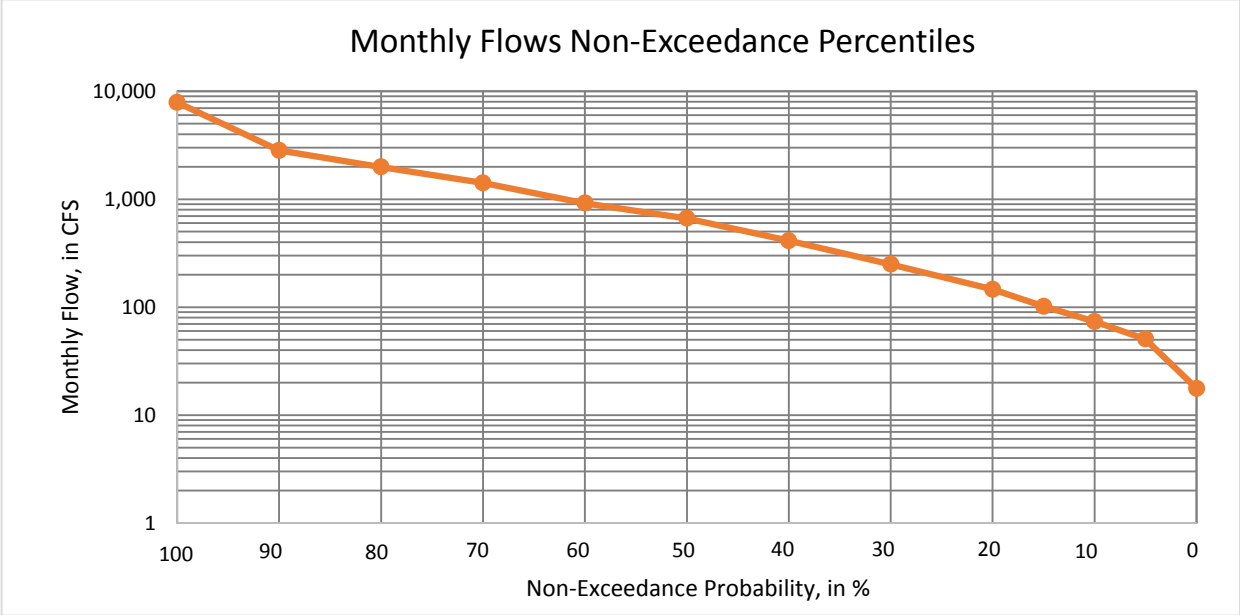
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,098	3,921	3,635	1,314	761	351	771	852	561	1,186	704	1,020	1,503
1976	3,104	1,517	4,791	1,809	1,543	816	409	223	232	81	189	1,079	1,321
1977	1,989	1,188	4,488	3,848	263	97	92	83	822	2,277	2,731	1,240	1,593
1978	2,614	778	1,731	559	1,721	371	132	254	66	18	56	488	737
1979	2,824	2,108	3,640	5,587	699	544	170	271	1,992	582	1,845	519	1,720
1980	1,958	1,799	7,888	3,738	1,935	318	97	84	537	785	797	570	1,712
1981	249	1,918	1,812	1,686	190	337	102	140	195	79	79	927	633
1982	3,523	2,919	1,461	2,732	802	610	381	250	105	171	280	3,851	1,417
1983	1,251	3,026	2,397	3,358	3,675	691	162	66	59	74	833	4,375	1,657
1984	1,949	1,128	1,626	2,682	2,102	208	109	219	49	111	374	663	935
1985	566	3,047	791	672	946	160	1,577	611	115	358	575	883	846
1986	532	919	709	205	288	258	68	98	151	243	942	853	435
1987	386	1,989	2,868	918	207	350	722	61	49	27	67	176	644
1988	1,233	1,182	569	1,026	215	45	84	39	783	423	1,145	773	621
1989	3,848	2,136	3,278	1,866	664	2,578	2,250	168	275	697	1,273	1,073	1,674
1990	3,416	6,675	3,059	618	640	266	152	51	49	39	75	606	1,271
1991	994	2,448	1,846	1,919	2,844	414	137	150	128	49	137	652	968
1992	827	1,529	1,293	758	194	261	459	387	676	237	1,961	2,294	901
1993	3,371	1,412	2,088	1,081	685	146	61	122	48	39	94	355	792
1994	1,787	2,186	2,645	2,389	414	302	822	250	261	776	660	1,908	1,195
1995	1,397	2,002	2,549	779	307	137	69	60	82	2,281	1,668	1,360	1,054
1996	4,132	2,020	2,508	975	320	177	215	170	562	270	525	1,270	1,094
1997	2,461	2,021	2,230	791	1,979	3,623	897	240	282	1,018	757	897	1,429
1998	3,970	3,460	2,496	2,867	430	325	145	152	42	32	77	594	1,202
1999	2,421	2,064	1,869	886	617	1,202	624	78	39	51	73	97	828
2000	478	484	2,482	3,472	195	105	45	40	37	24	364	305	667
2001	1,348	2,183	4,664	2,913	433	807	453	188	1,511	261	262	1,909	1,405
2002	2,242	1,432	1,534	1,345	1,422	211	348	104	316	642	1,468	2,460	1,128
2003	1,060	2,853	2,831	1,012	4,994	971	603	186	121	67	116	243	1,249
2004	817	3,470	1,440	495	279	713	596	186	987	583	5,027	2,675	1,418
2005	682	1,216	2,007	2,530	423	450	994	214	80	56	97	546	771
2006	1,346	2,007	1,410	1,558	1,020	117	62	79	152	341	594	356	745
2007	1,480	699	610	334	114	45	96	26	54	19	33	61	296
2008	200	985	1,351	713	1,227	269	72	348	93	41	50	1,552	575
2009	4,245	1,142	3,613	1,914	2,458	576	210	266	1,016	2,136	1,584	2,917	1,852
2010	1,944	2,051	2,826	1,465	1,602	682	164	113	65	71	97	251	939
2011	767	838	2,940	2,330	403	143	212	65	2,504	166	598	2,258	1,101
2012	2,799	1,450	1,740	356	236	140	194	345	452	234	127	1,371	787
2013	3,929	2,590	1,818	1,989	3,056	875	702	1,472	280	74	219	1,835	1,570
2014	1,204	2,898	1,364	3,301	876	462	110	66	54	149	193	1,132	968

Non-Exceedance Percentiles

02455500 - Locust Fork at Trafford, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	200	484	569	205	114	45	45	26	37	18	33	61	296
5th %	380	774	704	355	194	95	62	40	42	23	56	172	568
10th %	527	911	1,243	553	205	116	69	59	49	31	73	251	632
15th %	665	1,107	1,362	664	233	140	82	64	49	39	77	347	664
20th %	807	1,174	1,434	749	275	146	95	66	54	48	91	462	743
30th %	1,161	1,426	1,699	908	378	210	110	84	76	69	124	587	817
40th %	1,348	1,691	1,835	1,059	432	268	150	119	111	80	209	729	937
Median	1,865	2,004	2,159	1,511	674	331	182	160	151	168	369	912	1,074
60th %	2,090	2,056	2,501	1,886	832	388	268	187	267	250	596	1,100	1,198
70th %	2,669	2,184	2,827	2,348	1,285	554	455	228	357	377	769	1,363	1,346
80th %	3,157	2,862	3,103	2,759	1,764	695	639	257	584	653	1,171	1,908	1,444
90th %	3,856	3,089	3,724	3,369	2,497	884	829	352	989	1,034	1,686	2,482	1,659
Maximum	4,245	6,675	7,888	5,587	4,994	3,623	2,250	1,472	2,504	2,281	5,027	4,375	1,852
Average	1,961	2,042	2,422	1,770	1,079	529	389	219	397	419	719	1,210	1,091

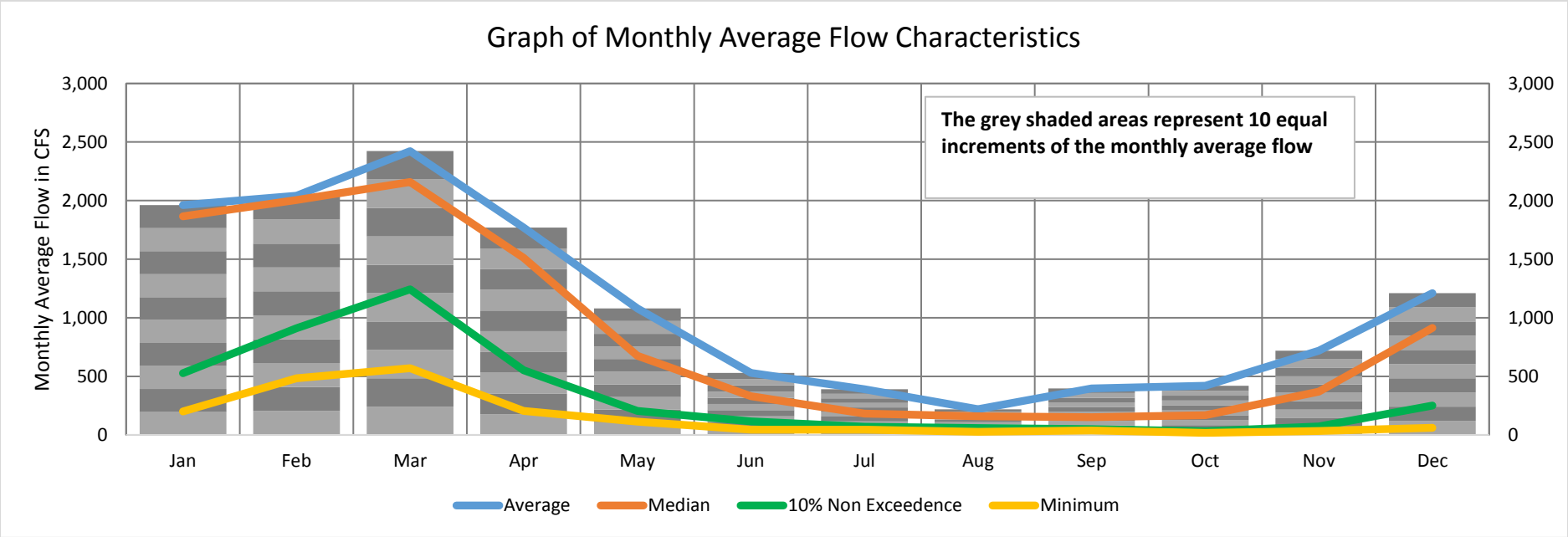
	Flows in CFS
Minimum	17.7
5th %	51
10th %	74
15th %	102
20th %	146
30th %	250
40th %	412
Median	663
60th %	918
70th %	1,415
80th %	1,989
90th %	2,826
Maximum	7,888
Average	1,096



Q10/Q50	0.11
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.03
Q5/DA	0.08
Q10/DA	0.12
Q15/DA	0.16
Q20/DA	0.23
Q30/DA	0.40
Q40/DA	0.66
Q50/DA	1.06
Q60/DA	1.47
Q70/DA	2.27
Q80/DA	3.19
Q90/DA	4.53
Qmax/DA	12.64

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

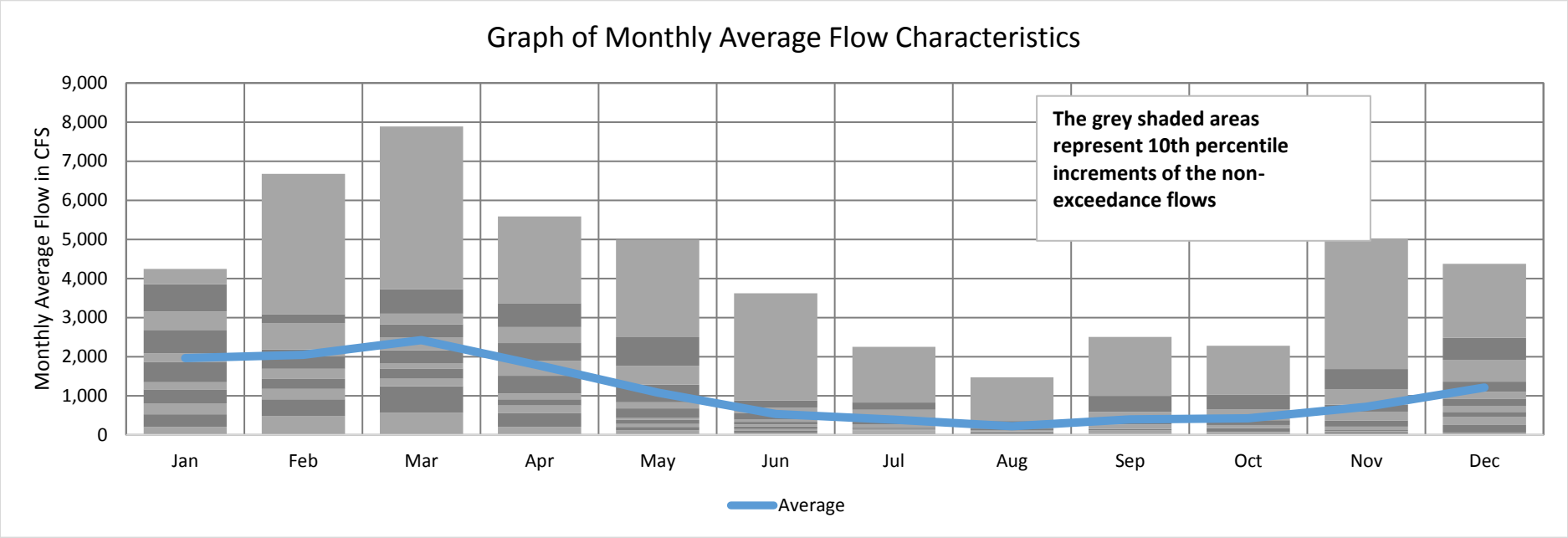
Site #: 02455500 Name: Locust Fork at Trafford, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,961	2,042	2,422	1,770	1,079	529	389	219	397	419	719	1,210
100%	4,245	6,675	7,888	5,587	4,994	3,623	2,250	1,472	2,504	2,281	5,027	4,375
98%	4,157	4,527	5,472	4,231	3,965	2,808	1,725	989	2,105	2,278	3,236	3,967
95%	3,978	3,492	4,670	3,744	3,087	1,271	1,023	623	1,535	2,143	2,000	2,964
90%	3,856	3,089	3,724	3,369	2,497	884	829	352	989	1,034	1,686	2,482
75%	2,893	2,484	2,886	2,568	1,558	628	598	250	543	582	860	1,623
50%	1,865	2,004	2,159	1,511	674	331	182	160	151	168	369	912
25%	952	1,209	1,516	788	302	173	101	79	63	54	97	540
10%	527	911	1,243	553	205	116	69	59	49	31	73	251
5%	380	774	704	355	194	95	62	40	42	23	56	172
2%	238	652	601	306	174	45	58	36	39	19	46	89
0%	200	484	569	205	114	45	45	26	37	18	33	61

Site #: 02455500 Name: Locust Fork at Trafford, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 624 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,961	2,042	2,422	1,770	1,079	529	389	219	397	419	719	1,210
100%	4,245	6,675	7,888	5,587	4,994	3,623	2,250	1,472	2,504	2,281	5,027	4,375
98%	4,157	4,527	5,472	4,231	3,965	2,808	1,725	989	2,105	2,278	3,236	3,967
95%	3,978	3,492	4,670	3,744	3,087	1,271	1,023	623	1,535	2,143	2,000	2,964
90%	3,856	3,089	3,724	3,369	2,497	884	829	352	989	1,034	1,686	2,482
75%	2,893	2,484	2,886	2,568	1,558	628	598	250	543	582	860	1,623
50%	1,865	2,004	2,159	1,511	674	331	182	160	151	168	369	912
25%	952	1,209	1,516	788	302	173	101	79	63	54	97	540
10%	527	911	1,243	553	205	116	69	59	49	31	73	251
5%	380	774	704	355	194	95	62	40	42	23	56	172
2%	238	652	601	306	174	45	58	36	39	19	46	89
0%	200	484	569	205	114	45	45	26	37	18	33	61

Monthly Flows (in CFS) for
02456000 - Turkey Creek at Morris, Ala.

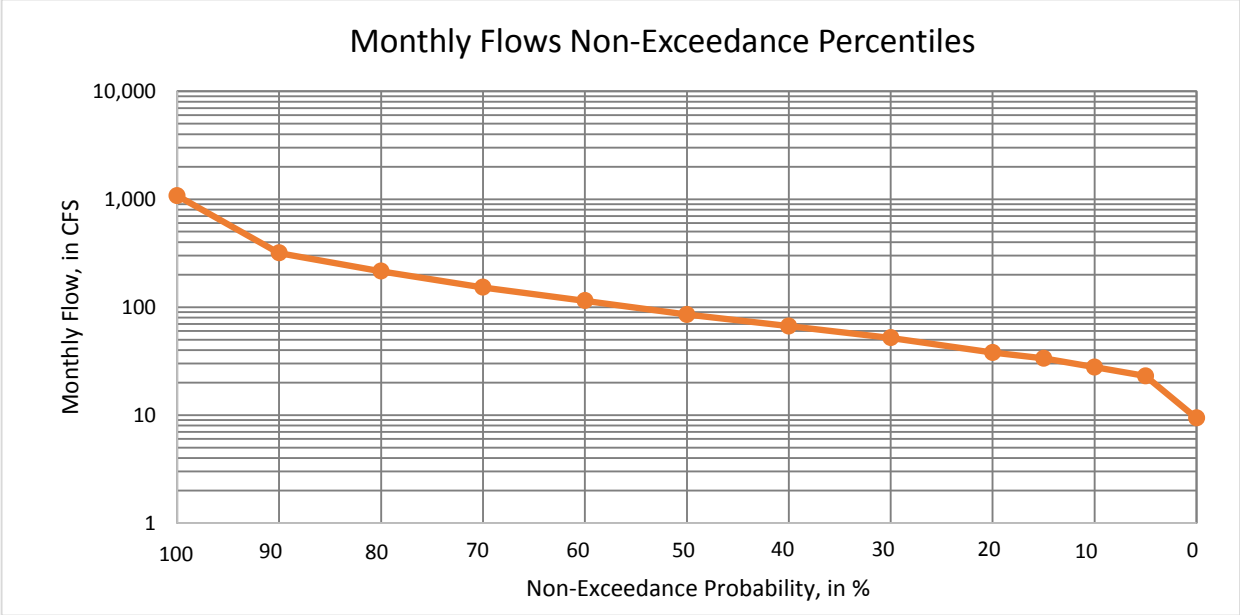
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	399	454	477	184	61	43	71	92	79	129	66	132	181
1976	294	140	712	155	253	73	57	51	46	26	31	122	164
1977	229	160	438	484	59	34	31	26	126	311	250	137	190
1978	290	98	200	58	195	73	27	36	17	16	23	64	92
1979	278	282	367	682	123	98	43	36	163	87	215	81	203
1980	227	210	1,078	437	224	60	32	30	83	107	108	86	224
1981	52	223	211	198	45	62	33	38	46	29	29	121	90
1982	409	335	175	313	109	90	67	52	33	42	56	451	177
1983	154	348	275	388	428	98	41	26	25	28	112	521	203
1984	226	141	192	307	242	47	34	49	23	34	66	95	121
1985	86	351	108	96	123	41	187	90	35	64	87	117	114
1986	82	121	100	47	57	53	27	32	40	51	123	114	70
1987	67	230	329	120	47	63	101	25	23	17	27	43	90
1988	152	147	86	131	48	22	32	23	74	50	134	77	81
1989	279	183	300	239	100	150	182	47	81	62	101	95	152
1990	318	852	367	118	96	65	72	38	31	27	33	77	170
1991	69	167	204	141	271	84	61	47	39	27	39	60	101
1992	68	98	92	75	39	45	52	68	78	29	136	168	79
1993	383	129	169	113	140	64	44	34	27	22	33	47	101
1994	109	148	288	196	72	113	161	65	65	94	99	207	135
1995	116	162	308	117	73	53	35	33	25	354	180	130	132
1996	509	237	618	115	83	63	77	63	45	37	45	77	165
1997	234	179	294	128	100	464	187	55	62	68	80	83	161
1998	397	362	281	371	84	53	71	124	36	24	29	67	157
1999	187	149	170	85	71	114	86	34	21	40	34	27	84
2000	54	60	564	461	52	37	23	19	16	12	81	32	118
2001	78	127	335	395	63	76	73	85	385	54	52	150	155
2002	196	126	209	136	160	71	173	37	85	103	164	326	149
2003	129	359	296	146	841	137	121	59	41	32	37	38	186
2004	88	462	171	88	59	78	53	44	187	58	592	274	176
2005	92	167	315	274	87	98	155	45	26	23	40	66	115
2006	170	361	216	97	98	34	24	25	21	27	34	47	95
2007	81	70	55	36	21	14	15	9	21	15	18	27	32
2008	38	120	128	109	219	65	32	87	26	19	26	152	85
2009	372	217	317	191	158	71	52	52	209	307	254	314	210
2010	233	256	342	218	174	130	38	42	23	27	39	49	130
2011	83	118	385	216	58	31	61	23	310	31	81	181	131
2012	272	158	124	59	52	35	71	32	73	39	28	93	86
2013	383	282	224	215	561	200	180	330	64	38	55	144	224
2014	87	218	143	450	107	68	35	43	34	42	58	153	119

Non-Exceedance Percentiles

02456000 - Turkey Creek at Morris, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	38	60	55	36	21	14	15	9	16	12	18	27	32
5th %	54	97	92	57	45	31	24	23	20	16	26	32	78
10th %	68	116	107	73	48	34	27	25	21	19	28	43	84
15th %	76	120	127	88	52	36	32	26	23	23	29	47	86
20th %	82	127	164	97	57	42	32	29	25	26	32	57	90
30th %	88	145	187	116	63	53	35	34	27	27	36	74	101
40th %	124	159	210	130	79	63	44	37	34	30	43	82	118
Median	179	173	278	150	97	65	55	42	41	37	57	95	132
60th %	227	217	298	197	108	72	68	47	52	42	81	121	153
70th %	274	243	321	224	145	80	72	52	73	55	99	139	164
80th %	299	338	367	325	200	98	105	64	81	72	125	156	178
90th %	385	361	485	438	255	131	173	88	166	109	183	278	203
Maximum	509	852	1,078	682	841	464	187	330	385	354	592	521	224
Average	199	225	292	210	146	82	73	54	71	65	92	131	136

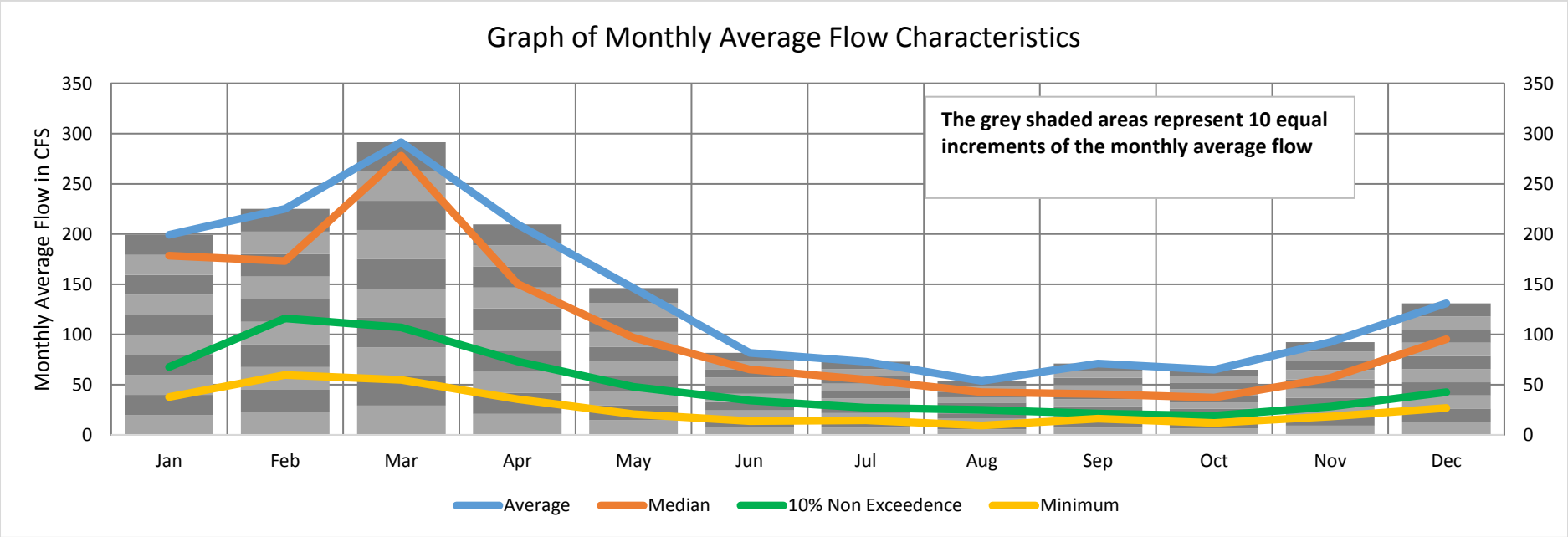
	Flows in CFS
Minimum	9.4
5th %	23
10th %	28
15th %	33
20th %	38
30th %	52
40th %	67
Median	85
60th %	114
70th %	153
80th %	215
90th %	317
Maximum	1,078
Average	137



Q10/Q50	0.33
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.12
Q5/DA	0.28
Q10/DA	0.34
Q15/DA	0.41
Q20/DA	0.47
Q30/DA	0.64
Q40/DA	0.82
Q50/DA	1.05
Q60/DA	1.41
Q70/DA	1.89
Q80/DA	2.66
Q90/DA	3.92
Qmax/DA	13.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

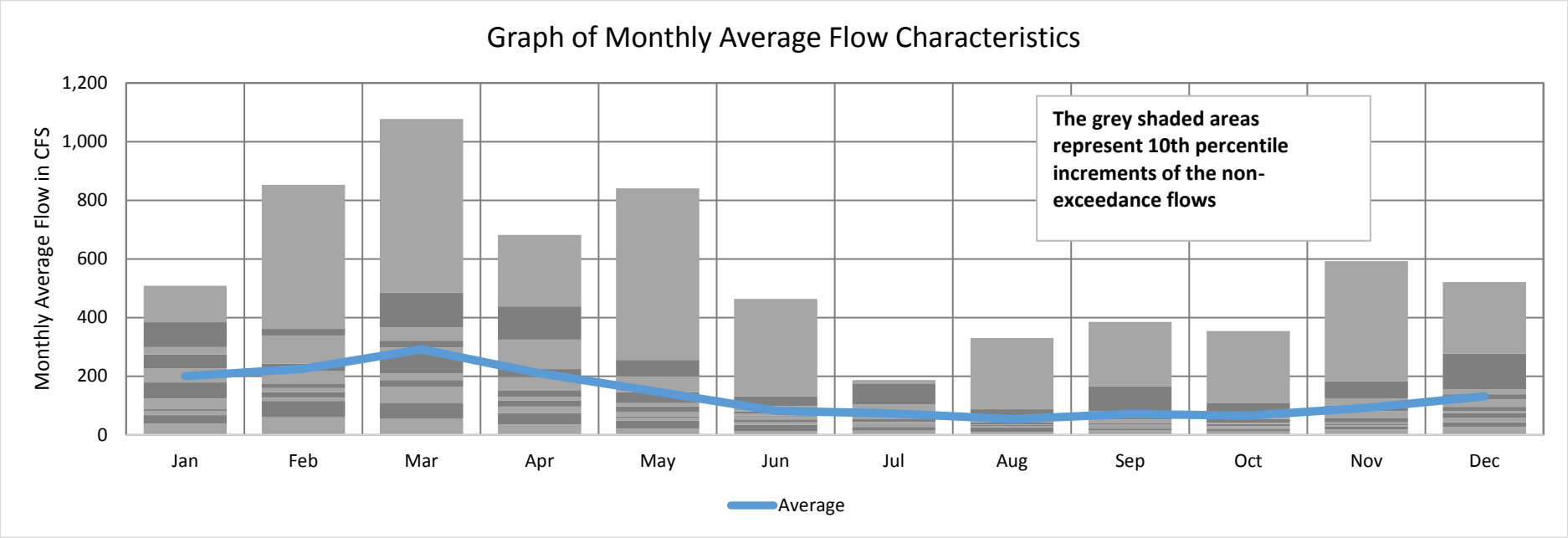
Site #: 02456000 Name: Turkey Creek at Morris, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	199	225	292	210	146	82	73	54	71	65	92	131
100%	509	852	1,078	682	841	464	187	330	385	354	592	521
98%	431	548	793	528	623	258	187	170	326	320	328	467
95%	400	455	623	462	435	153	183	94	214	307	250	332
90%	385	361	485	438	255	131	173	88	166	109	183	278
75%	282	282	336	282	163	92	79	56	78	62	109	150
50%	179	173	278	150	97	65	55	42	41	37	57	95
25%	85	137	170	112	59	47	34	32	26	27	34	66
10%	68	116	107	73	48	34	27	25	21	19	28	43
5%	54	97	92	57	45	31	24	23	20	16	26	32
2%	49	68	79	44	35	20	21	17	17	15	22	27
0%	38	60	55	36	21	14	15	9.4	16	12	18	27

Site #: 02456000 Name: Turkey Creek at Morris, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 81 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	199	225	292	210	146	82	73	54	71	65	92	131
100%	509	852	1,078	682	841	464	187	330	385	354	592	521
98%	431	548	793	528	623	258	187	170	326	320	328	467
95%	400	455	623	462	435	153	183	94	214	307	250	332
90%	385	361	485	438	255	131	173	88	166	109	183	278
75%	282	282	336	282	163	92	79	56	78	62	109	150
50%	179	173	278	150	97	65	55	42	41	37	57	95
25%	85	137	170	112	59	47	34	32	26	27	34	66
10%	68	116	107	73	48	34	27	25	21	19	28	43
5%	54	97	92	57	45	31	24	23	20	16	26	32
2%	49	68	79	44	35	20	21	17	17	15	22	27
0%	38	60	55	36	21	14	15	9.4	16	12	18	27

Monthly Flows (in CFS) for
02456500 - Locust Fork at Sayre, Ala.

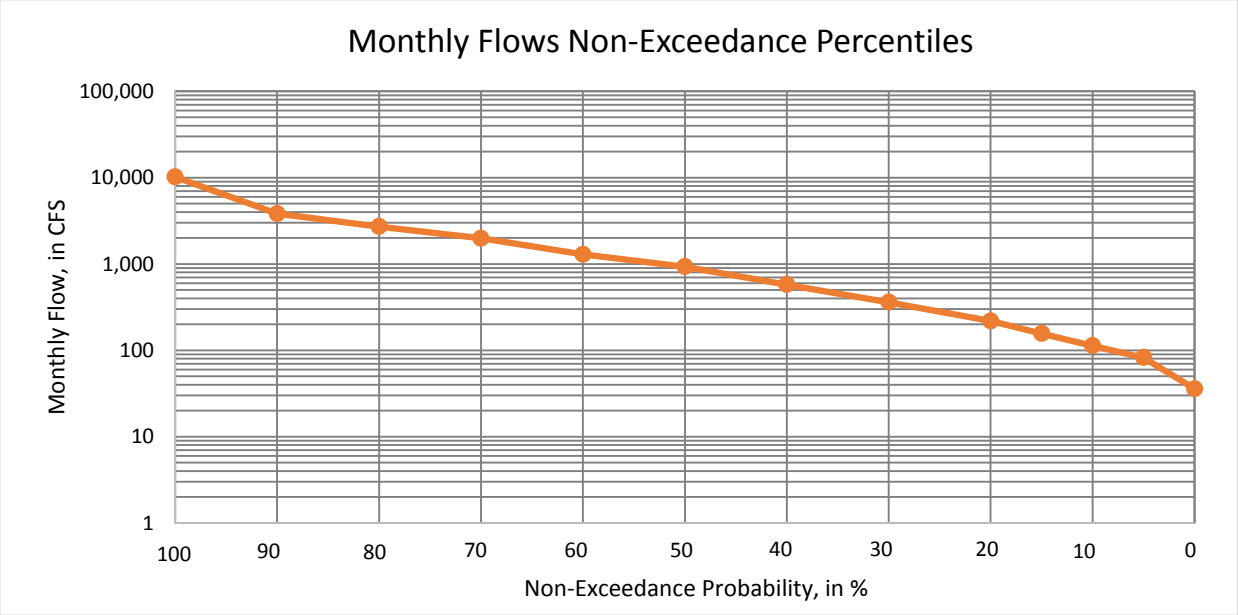
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,169	5,235	4,866	1,804	1,055	495	1,069	1,180	782	1,632	978	1,407	2,041
1976	4,177	2,077	6,344	2,468	2,113	1,131	575	319	332	124	273	1,487	1,791
1977	2,708	1,634	5,960	5,141	374	146	139	126	1,138	3,091	3,689	1,705	2,154
1978	3,535	1,079	2,364	780	2,351	523	194	362	102	36	89	683	1,015
1979	3,811	2,866	4,872	7,346	971	759	246	386	2,712	811	2,517	726	2,320
1980	2,667	2,455	10,170	4,999	2,636	449	145	128	749	1,088	1,104	795	2,286
1981	355	2,614	2,472	2,304	274	476	153	204	280	121	121	1,281	875
1982	4,721	3,935	2,003	3,690	1,112	849	536	356	156	247	397	5,145	1,920
1983	1,720	4,075	3,249	4,507	4,918	960	235	103	93	113	1,154	5,816	2,236
1984	2,655	1,554	2,224	3,624	2,859	299	163	313	80	165	526	922	1,281
1985	790	4,103	1,097	934	1,307	232	2,158	851	171	505	802	1,222	1,164
1986	743	1,270	984	295	409	367	105	147	219	347	1,301	1,181	609
1987	544	2,708	3,868	1,269	297	493	1,003	96	80	49	104	254	887
1988	1,696	1,627	794	1,416	309	74	127	65	1,086	594	1,577	1,072	862
1989	5,141	2,904	4,404	2,545	923	3,488	3,055	243	391	968	1,749	1,479	2,272
1990	4,583	8,694	4,118	860	891	378	222	82	79	65	115	844	1,702
1991	1,372	3,317	2,518	2,615	3,837	581	201	219	188	80	201	907	1,325
1992	1,145	2,094	1,776	1,051	279	372	644	545	939	365	2,512	3,082	1,227
1993	4,469	1,955	2,769	1,512	1,041	246	109	175	92	70	173	562	1,097
1994	2,584	3,031	3,857	3,201	577	511	1,156	382	385	1,070	964	2,785	1,702
1995	2,004	2,812	3,763	1,311	499	236	113	113	160	2,753	2,562	2,130	1,533
1996	5,541	2,993	3,736	1,499	556	267	354	253	659	361	791	2,002	1,581
1997	3,659	2,969	3,541	1,217	2,503	5,392	1,639	390	456	1,404	1,050	1,241	2,116
1998	5,298	4,640	3,380	3,867	603	459	212	221	69	55	118	828	1,627
1999	3,281	2,808	2,549	1,226	859	1,654	868	120	66	82	113	146	1,138
2000	670	678	3,361	4,655	280	156	74	67	63	44	514	431	913
2001	1,851	2,966	6,183	3,927	608	1,118	634	272	2,069	372	373	2,602	1,906
2002	3,044	1,963	2,100	1,846	1,950	302	491	156	447	894	2,012	3,333	1,546
2003	1,461	3,849	3,820	1,396	6,601	1,341	841	268	178	104	172	347	1,691
2004	1,132	4,652	1,974	693	396	990	830	268	1,362	813	6,643	3,615	1,920
2005	948	1,673	2,732	3,424	594	631	1,372	307	122	88	146	763	1,062
2006	1,848	2,732	1,934	2,132	1,407	173	98	121	221	481	828	502	1,028
2007	2,028	971	849	472	170	74	145	48	86	38	57	95	418
2008	288	1,360	1,854	991	1,687	383	111	490	140	68	81	2,125	798
2009	5,650	1,573	4,837	2,609	3,330	804	301	379	1,402	2,904	2,167	3,933	2,506
2010	2,648	2,791	3,813	2,008	2,191	948	238	168	101	109	146	358	1,286
2011	1,064	1,161	3,963	3,161	567	209	304	101	3,391	241	833	3,065	1,504
2012	3,778	1,987	2,376	501	337	205	280	487	634	334	187	1,881	1,082
2013	5,245	3,504	2,480	2,709	4,114	1,210	976	2,017	398	113	314	2,503	2,131
2014	1,656	3,908	1,872	4,433	1,212	647	164	103	86	217	278	1,559	1,323

Non-Exceedance Percentiles

02456500 - Locust Fork at Sayre, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	288	678	794	295	170	74	74	48	63	36	57	95	418
5th %	534	1,074	978	500	278	142	105	67	69	44	88	249	788
10th %	736	1,259	1,708	772	295	171	111	94	79	55	112	357	873
15th %	924	1,525	1,869	923	333	208	125	103	85	68	118	492	909
20th %	1,118	1,616	1,966	1,039	391	235	143	111	91	78	141	658	1,025
30th %	1,598	1,961	2,322	1,298	563	301	163	127	116	107	183	818	1,126
40th %	1,850	2,311	2,503	1,507	606	381	218	172	166	122	299	1,012	1,284
Median	2,616	2,762	3,009	2,070	947	485	263	232	220	244	520	1,261	1,518
60th %	2,842	2,881	3,619	2,571	1,152	546	409	269	387	362	830	1,516	1,652
70th %	3,695	3,004	3,831	3,173	1,766	773	637	330	509	531	1,066	2,039	1,825
80th %	4,235	3,861	4,175	3,725	2,381	966	890	382	814	909	1,611	2,639	2,056
90th %	5,151	4,157	4,981	4,522	3,381	1,223	1,178	496	1,366	1,427	2,513	3,361	2,240
Maximum	5,650	8,694	10,170	7,346	6,601	5,392	3,055	2,017	3,391	3,091	6,643	5,816	2,506
Average	2,667	2,780	3,296	2,411	1,475	751	557	316	554	575	993	1,670	1,497

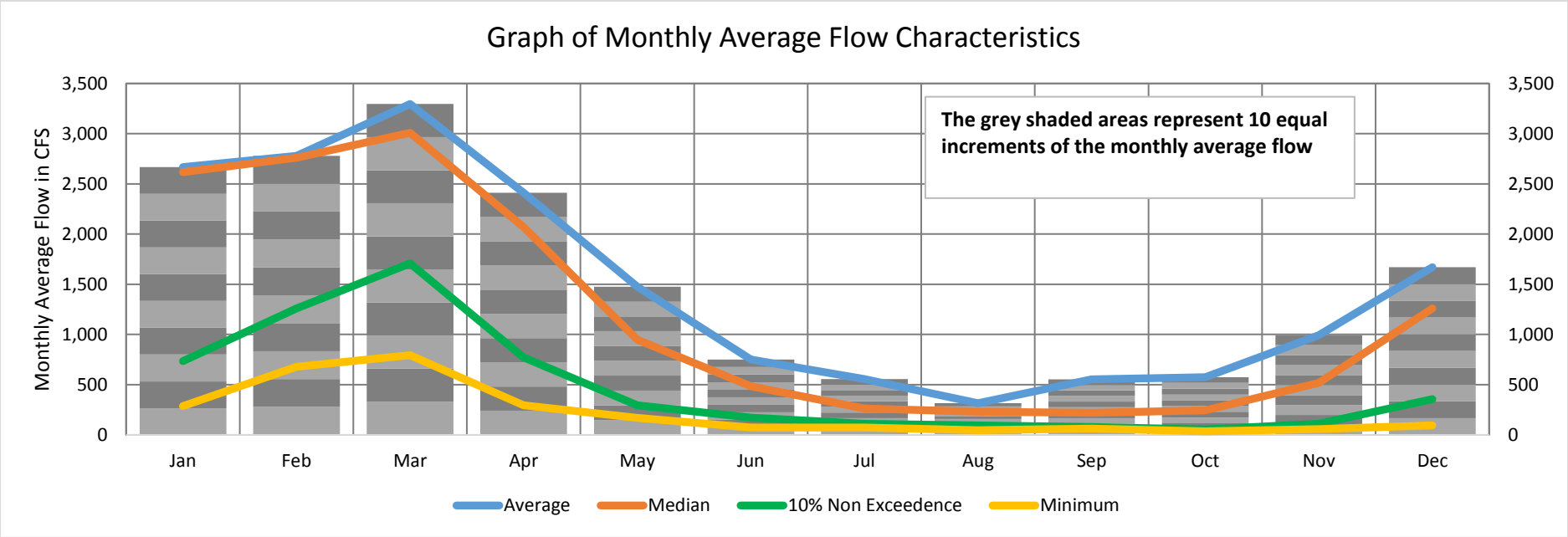
	Flows in CFS
Minimum	35.9
5th %	82
10th %	113
15th %	156
20th %	218
30th %	360
40th %	576
Median	929
60th %	1,289
70th %	1,978
80th %	2,710
90th %	3,822
Maximum	10,170
Average	1,504



Q10/Q50	0.12
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.04
Q5/DA	0.09
Q10/DA	0.13
Q15/DA	0.18
Q20/DA	0.25
Q30/DA	0.41
Q40/DA	0.65
Q50/DA	1.05
Q60/DA	1.46
Q70/DA	2.23
Q80/DA	3.06
Q90/DA	4.32
Qmax/DA	11.49

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

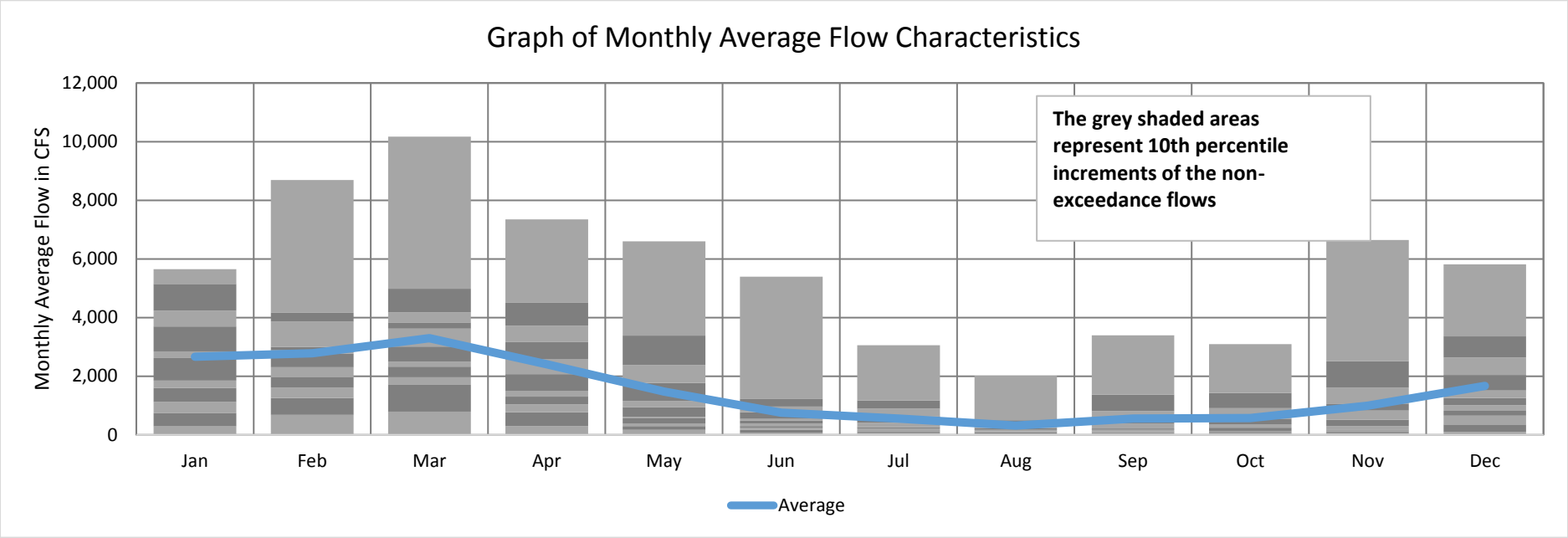
Site #: 02456500 Name: Locust Fork at Sayre, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,667	2,780	3,296	2,411	1,475	751	557	316	554	575	993	1,670
100%	5,650	8,694	10,170	7,346	6,601	5,392	3,055	2,017	3,391	3,091	6,643	5,816
98%	5,565	5,996	7,186	5,626	5,288	3,907	2,355	1,364	2,861	2,945	4,339	5,293
95%	5,310	4,681	6,191	5,006	4,154	1,746	1,665	868	2,101	2,761	2,618	3,994
90%	5,151	4,157	4,981	4,522	3,381	1,223	1,178	496	1,366	1,427	2,513	3,361
75%	3,901	3,364	3,892	3,474	2,133	874	833	366	682	811	1,191	2,223
50%	2,616	2,762	3,009	2,070	947	485	263	232	220	244	520	1,261
25%	1,315	1,663	2,076	1,224	476	262	151	121	99	87	166	753
10%	736	1,259	1,708	772	295	171	111	94	79	55	112	357
5%	534	1,074	978	500	278	142	105	67	69	44	88	249
2%	340	907	837	433	251	74	93	61	65	38	75	135
0%	288	678	794	295	170	74	74	48	63	36	57	95

Site #: 02456500 Name: Locust Fork at Sayre, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 885 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,667	2,780	3,296	2,411	1,475	751	557	316	554	575	993	1,670
100%	5,650	8,694	10,170	7,346	6,601	5,392	3,055	2,017	3,391	3,091	6,643	5,816
98%	5,565	5,996	7,186	5,626	5,288	3,907	2,355	1,364	2,861	2,945	4,339	5,293
95%	5,310	4,681	6,191	5,006	4,154	1,746	1,665	868	2,101	2,761	2,618	3,994
90%	5,151	4,157	4,981	4,522	3,381	1,223	1,178	496	1,366	1,427	2,513	3,361
75%	3,901	3,364	3,892	3,474	2,133	874	833	366	682	811	1,191	2,223
50%	2,616	2,762	3,009	2,070	947	485	263	232	220	244	520	1,261
25%	1,315	1,663	2,076	1,224	476	262	151	121	99	87	166	753
10%	736	1,259	1,708	772	295	171	111	94	79	55	112	357
5%	534	1,074	978	500	278	142	105	67	69	44	88	249
2%	340	907	837	433	251	74	93	61	65	38	75	135
0%	288	678	794	295	170	74	74	48	63	36	57	95

Monthly Flows (in CFS) for
02457670 - Fivemile Creek near Graysville, Ala.

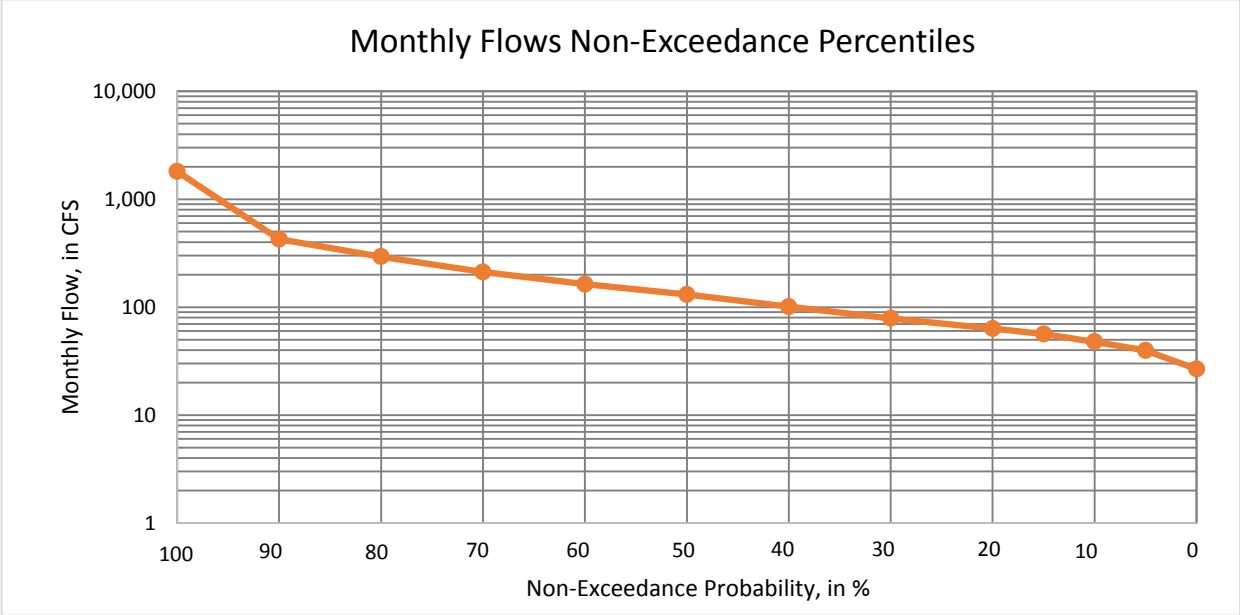
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	486	649	590	211	144	96	145	155	121	195	137	175	257
1976	488	238	848	278	241	151	103	79	81	54	74	182	236
1977	304	195	776	634	85	58	57	54	151	348	422	202	274
1978	402	146	267	121	266	99	65	84	50	27	46	112	141
1979	438	322	591	1,056	137	119	71	86	304	123	283	116	302
1980	299	276	1,808	611	296	92	58	55	118	147	148	122	337
1981	83	294	278	261	75	94	59	66	75	53	53	164	128
1982	567	454	230	422	149	127	100	83	59	72	87	634	248
1983	203	473	366	535	598	136	70	50	47	52	153	749	285
1984	298	188	253	413	321	77	60	79	44	61	99	133	169
1985	122	477	148	134	166	70	246	127	62	97	123	158	159
1986	118	163	138	77	88	84	50	58	68	82	165	155	103
1987	100	304	445	163	77	96	140	48	44	34	50	72	130
1988	201	195	122	176	78	29	41	32	135	75	218	97	116
1989	338	270	344	242	118	300	408	44	111	76	97	105	204
1990	524	870	294	85	78	59	64	40	42	35	48	136	185
1991	87	272	315	203	427	104	58	66	62	37	67	99	149
1992	117	172	134	93	44	69	88	231	133	56	394	205	144
1993	551	181	311	144	163	67	44	42	45	43	50	90	145
1994	223	259	443	254	98	102	164	65	120	161	173	286	195
1995	160	220	332	136	80	64	41	38	71	590	221	179	178
1996	761	269	1,015	143	133	65	190	140	102	68	122	172	267
1997	340	176	239	175	168	329	184	71	93	113	134	160	182
1998	744	560	487	547	145	82	82	113	45	36	59	143	252
1999	447	277	340	155	81	176	108	51	38	55	43	57	152
2000	106	112	569	596	66	54	40	52	35	36	116	75	154
2001	175	242	517	701	82	123	84	95	329	72	87	258	229
2002	322	210	288	182	238	88	243	64	161	157	211	407	215
2003	160	376	338	178	1,632	225	180	126	65	42	59	65	288
2004	125	794	224	107	91	138	115	71	295	77	741	339	255
2005	101	190	305	355	120	181	256	79	48	37	51	102	152
2006	208	549	311	195	133	50	54	61	51	61	65	68	148
2007	108	96	68	61	32	27	34	33	61	30	31	38	51
2008	58	196	178	165	255	116	75	148	37	41	44	189	125
2009	342	279	384	219	173	120	158	91	426	407	382	467	288
2010	317	314	464	255	226	137	60	78	36	60	78	55	173
2011	108	128	510	242	78	57	153	33	464	39	125	247	182
2012	344	185	210	73	68	48	130	81	131	81	53	205	134
2013	550	425	338	239	337	198	223	182	83	45	92	260	247
2014	118	340	234	642	125	107	45	49	36	68	95	240	173

Non-Exceedance Percentiles

02457670 - Fivemile Creek near Graysville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	58	96	68	61	32	27	34	32	35	27	31	38	51
5th %	86	127	133	77	64	47	41	33	36	33	44	57	115
10th %	101	161	147	92	74	54	44	40	38	35	48	68	128
15th %	108	176	205	119	78	58	49	44	44	37	50	75	134
20th %	115	184	229	135	78	63	56	49	45	38	53	95	143
30th %	124	195	263	160	84	69	59	53	49	44	63	110	151
40th %	191	231	301	177	110	86	68	63	61	54	84	135	165
Median	260	270	323	207	133	96	83	68	70	61	96	159	180
60th %	319	278	342	242	147	105	105	79	87	72	122	177	199
70th %	343	316	443	266	169	121	141	83	119	78	141	203	239
80th %	455	431	511	444	244	137	167	98	134	115	181	249	255
90th %	551	550	609	613	322	183	225	141	296	164	293	345	286
Maximum	761	870	1,808	1,056	1,632	329	408	231	464	590	741	749	337
Average	289	308	401	287	198	110	114	80	112	99	142	193	194

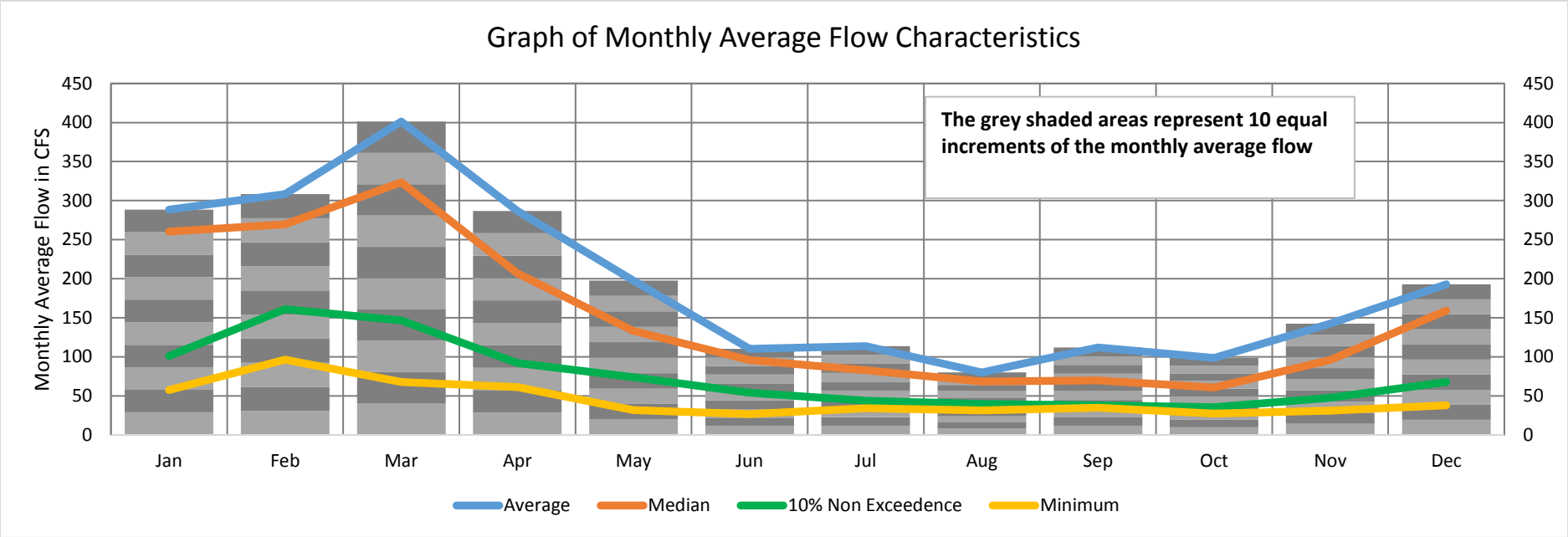
	Flows in CFS
Minimum	26.7
5th %	40
10th %	48
15th %	56
20th %	63
30th %	79
40th %	101
Median	131
60th %	163
70th %	211
80th %	294
90th %	426
Maximum	1,808
Average	194



Q10/Q50	0.37
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.29
Q5/DA	0.43
Q10/DA	0.52
Q15/DA	0.61
Q20/DA	0.69
Q30/DA	0.86
Q40/DA	1.10
Q50/DA	1.42
Q60/DA	1.78
Q70/DA	2.30
Q80/DA	3.20
Q90/DA	4.65
Qmax/DA	19.72

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

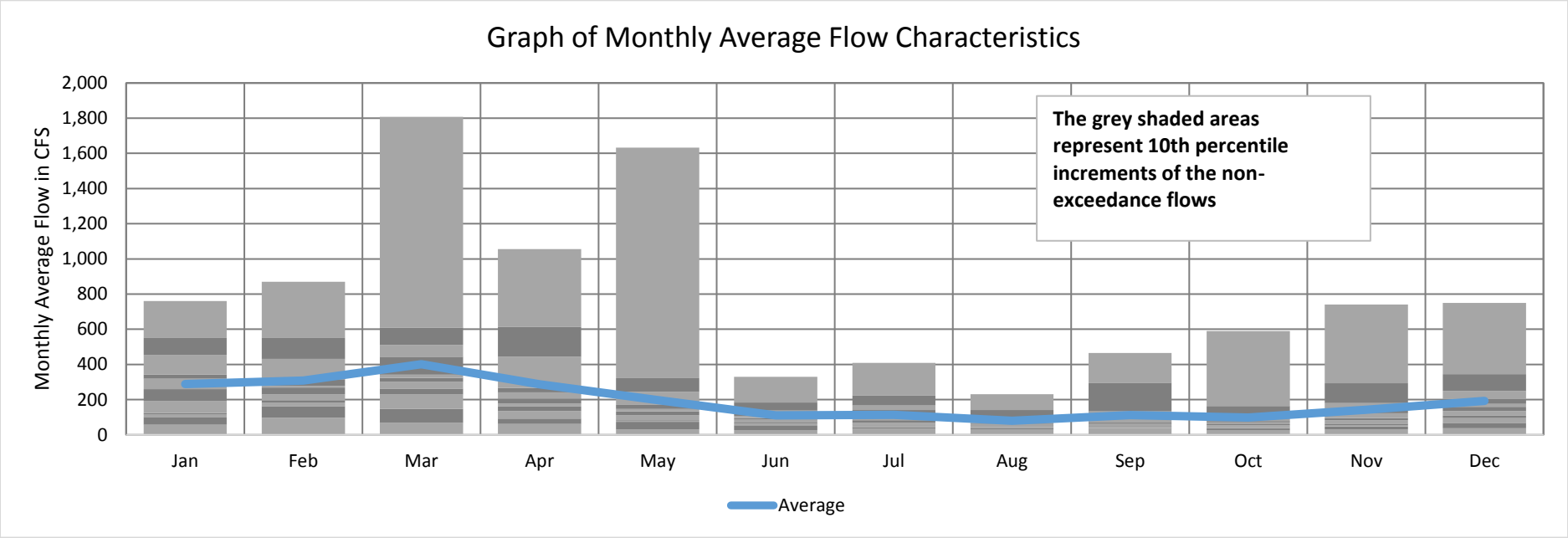
Site #: 02457670 Name: Fivemile Creek near Graysville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	289	308	401	287	198	110	114	80	112	99	142	193
100%	761	870	1,808	1,056	1,632	329	408	231	464	590	741	749
98%	748	811	1,189	779	825	306	290	193	435	448	492	660
95%	576	656	856	645	436	229	246	156	334	351	395	476
90%	551	550	609	613	322	183	225	141	296	164	293	345
75%	411	349	470	370	229	129	154	87	124	86	156	214
50%	260	270	323	207	133	96	83	68	70	61	96	159
25%	118	189	238	144	81	66	58	51	47	42	57	101
10%	101	161	147	92	74	54	44	40	38	35	48	68
5%	86	127	133	77	64	47	41	33	36	33	44	57
2%	77	108	110	71	42	29	38	32	35	29	40	51
0%	58	96	68	61	32	27	34	32	35	27	31	38

Site #: 02457670 Name: Fivemile Creek near Graysville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 92 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	289	308	401	287	198	110	114	80	112	99	142	193
100%	761	870	1,808	1,056	1,632	329	408	231	464	590	741	749
98%	748	811	1,189	779	825	306	290	193	435	448	492	660
95%	576	656	856	645	436	229	246	156	334	351	395	476
90%	551	550	609	613	322	183	225	141	296	164	293	345
75%	411	349	470	370	229	129	154	87	124	86	156	214
50%	260	270	323	207	133	96	83	68	70	61	96	159
25%	118	189	238	144	81	66	58	51	47	42	57	101
10%	101	161	147	92	74	54	44	40	38	35	48	68
5%	86	127	133	77	64	47	41	33	36	33	44	57
2%	77	108	110	71	42	29	38	32	35	29	40	51
0%	58	96	68	61	32	27	34	32	35	27	31	38

Monthly Flows (in CFS) for
02460500 - Village Creek near Adamsville, Ala.

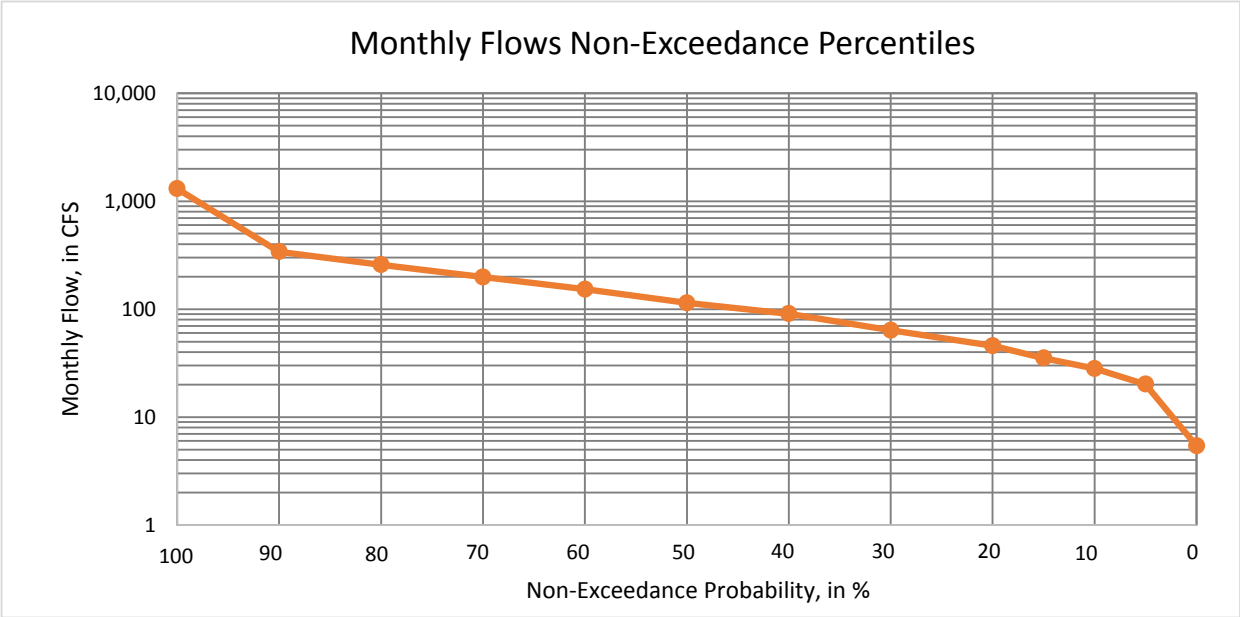
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	517	471	516	243	206	128	220	154	150	177	109	217	258
1976	385	208	930	227	499	122	97	82	158	90	98	227	262
1977	350	255	599	581	133	77	144	80	328	480	295	196	293
1978	355	138	281	139	535	308	113	101	66	60	84	165	196
1979	359	294	433	1,060	265	124	194	137	327	124	261	126	307
1980	343	252	830	545	346	122	85	63	109	110	123	88	251
1981	84	252	325	196	94	114	96	90	88	20	9	84	120
1982	338	386	176	311	102	233	64	98	12	16	55	472	188
1983	236	689	335	449	449	69	23	15	9	36	182	1,305	315
1984	258	154	194	321	190	32	20	44	9	34	58	56	114
1985	38	366	100	46	51	40	162	89	20	33	50	81	88
1986	41	83	102	21	31	26	22	42	36	64	179	178	69
1987	318	331	290	106	58	92	89	21	20	11	32	38	116
1988	181	133	110	94	32	12	28	22	89	65	195	110	89
1989	282	199	384	203	95	324	333	52	122	108	163	181	204
1990	508	630	363	97	77	49	33	14	5	13	35	116	159
1991	105	302	278	231	426	113	58	28	49	21	53	95	146
1992	121	243	154	124	20	33	69	52	118	36	266	243	122
1993	414	163	268	208	191	40	35	42	51	31	51	81	131
1994	240	259	339	242	104	102	118	57	96	123	114	238	169
1995	173	305	315	109	80	46	18	15	21	222	277	163	144
1996	498	258	468	179	127	59	227	94	54	48	77	125	185
1997	339	257	225	134	92	154	108	36	23	46	77	170	138
1998	498	362	267	330	95	44	48	47	20	15	75	153	162
1999	430	222	323	131	85	143	84	20	16	62	48	63	136
2000	161	83	514	462	46	35	34	27	10	22	68	47	126
2001	179	227	436	260	59	151	81	111	319	64	104	276	188
2002	342	225	262	105	117	54	79	32	132	108	186	255	158
2003	151	347	237	164	508	229	156	56	44	23	46	52	167
2004	96	404	157	78	58	67	53	37	134	45	321	211	136
2005	113	191	223	279	116	254	232	104	44	21	49	120	145
2006	220	418	268	151	149	35	34	27	25	52	68	92	126
2007	139	121	72	58	30	21	33	21	29	17	23	38	50
2008	57	191	164	147	173	57	53	91	32	11	25	112	92
2009	211	176	317	162	201	97	85	65	229	311	257	319	203
2010	229	269	340	188	198	79	63	55	23	29	66	72	134
2011	108	120	338	164	64	29	68	21	221	18	76	197	119
2012	256	191	189	93	78	38	61	136	105	121	61	222	129
2013	447	399	275	240	180	122	132	122	36	15	51	195	184
2014	123	254	222	457	155	135	41	42	32	48	92	320	159

Non-Exceedance Percentiles

02460500 - Village Creek near Adamsville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	38	83	72	21	20	12	18	14	5	11	9	38	50
5th %	56	118	102	57	31	26	22	15	9	13	25	46	87
10th %	95	132	150	91	45	31	28	21	12	15	34	56	92
15th %	107	151	163	97	57	35	33	21	19	17	48	71	116
20th %	119	174	187	106	59	38	34	26	20	20	50	81	120
30th %	158	196	225	133	80	45	51	35	25	23	55	94	128
40th %	199	227	268	157	94	58	62	42	35	33	67	118	136
Median	238	253	279	184	110	78	74	52	46	45	76	158	145
60th %	296	258	320	216	139	106	85	59	75	55	95	179	160
70th %	342	303	338	242	183	122	100	84	106	64	117	201	184
80th %	364	363	393	313	202	136	135	95	132	108	183	229	198
90th %	452	406	514	457	428	229	196	112	222	129	261	280	259
Maximum	517	689	930	1,060	535	324	333	154	328	480	321	1,305	315
Average	256	271	315	233	163	100	92	61	85	74	111	187	162

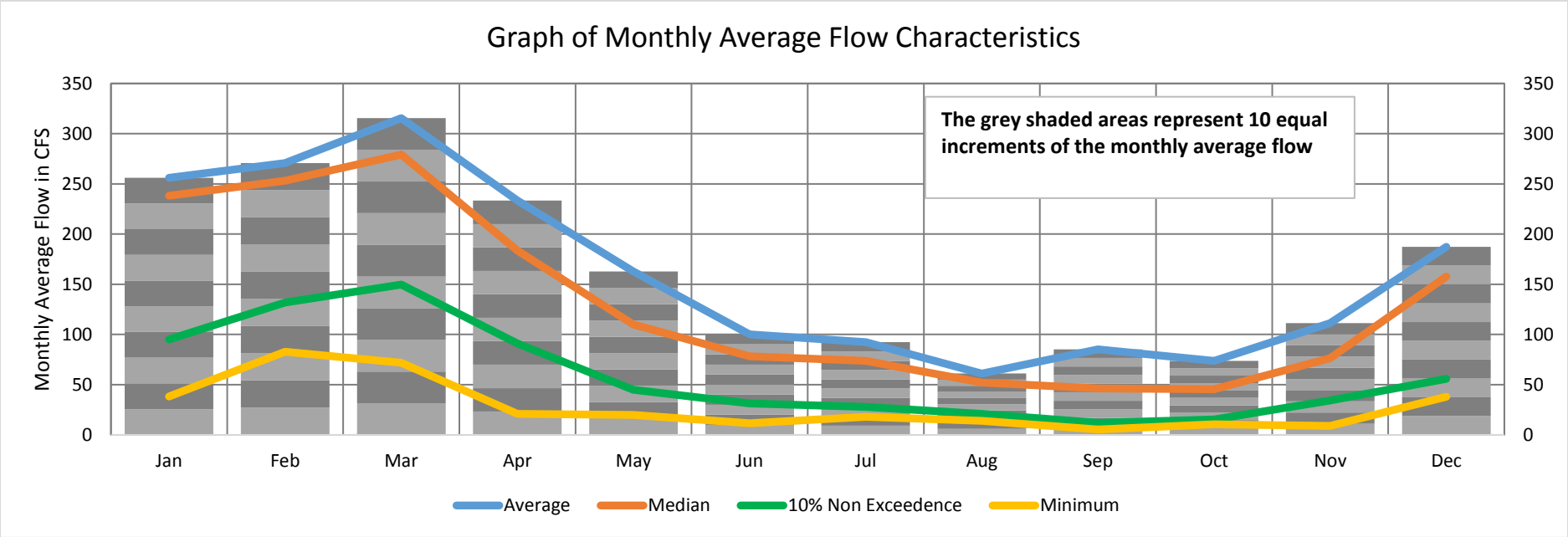
	Flows in CFS
Minimum	5.4
5th %	20
10th %	28
15th %	35
20th %	46
30th %	64
40th %	91
Median	114
60th %	153
70th %	198
80th %	258
90th %	341
Maximum	1,305
Average	162



Q10/Q50	0.25
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.06
Q5/DA	0.24
Q10/DA	0.34
Q15/DA	0.42
Q20/DA	0.55
Q30/DA	0.76
Q40/DA	1.09
Q50/DA	1.37
Q60/DA	1.83
Q70/DA	2.37
Q80/DA	3.09
Q90/DA	4.08
Qmax/DA	15.63

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

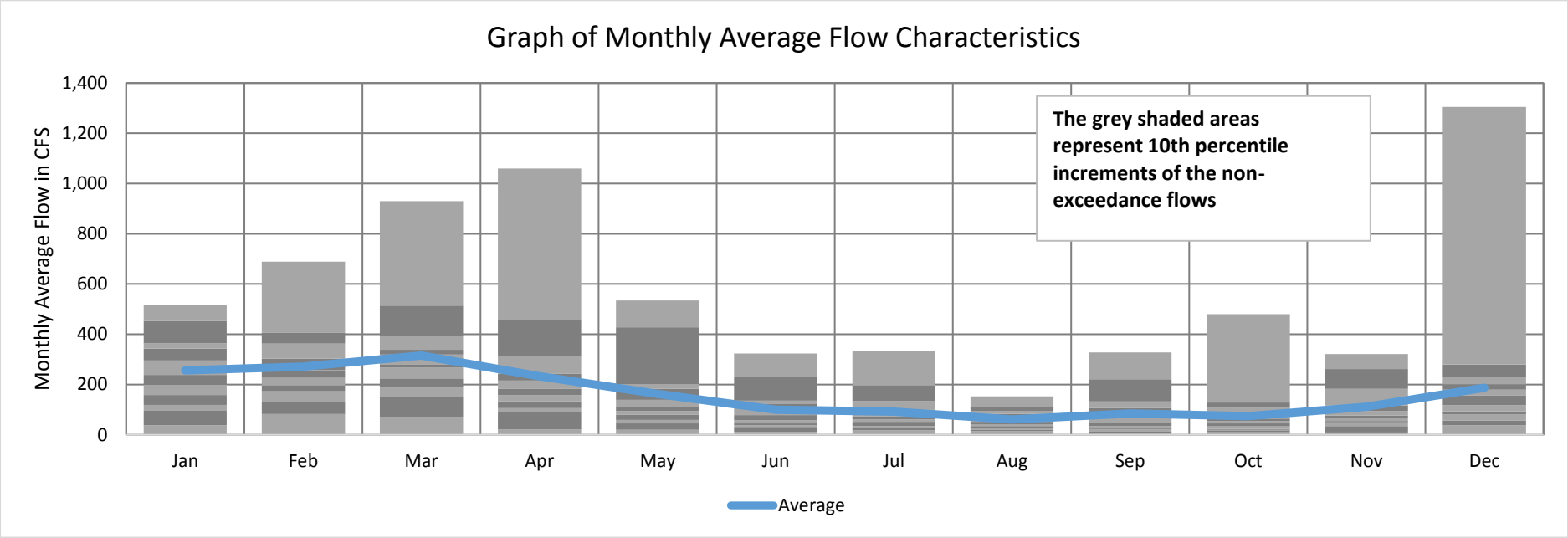
Site #: 02460500 Name: Village Creek near Adamsville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	256	271	315	233	163	100	92	61	85	74	111	187
100%	517	689	930	1,060	535	324	333	154	328	480	321	1,305
98%	510	643	852	686	514	312	254	141	327	348	301	655
95%	499	479	611	547	500	257	227	136	319	226	278	328
90%	452	406	514	457	428	229	196	112	222	129	261	280
75%	352	335	346	264	192	125	114	90	119	95	167	218
50%	238	253	279	184	110	78	74	52	46	45	76	158
25%	135	191	215	120	74	40	39	28	22	21	51	87
10%	95	132	150	91	45	31	28	21	12	15	34	56
5%	56	118	102	57	31	26	22	15	8.7	13	25	46
2%	40	83	94	40	28	19	20	15	8.0	11	20	38
0%	38	83	72	21	20	12	18	14	5.4	11	9.0	38

Site #: 02460500 Name: Village Creek near Adamsville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 84 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	256	271	315	233	163	100	92	61	85	74	111	187
100%	517	689	930	1,060	535	324	333	154	328	480	321	1,305
98%	510	643	852	686	514	312	254	141	327	348	301	655
95%	499	479	611	547	500	257	227	136	319	226	278	328
90%	452	406	514	457	428	229	196	112	222	129	261	280
75%	352	335	346	264	192	125	114	90	119	95	167	218
50%	238	253	279	184	110	78	74	52	46	45	76	158
25%	135	191	215	120	74	40	39	28	22	21	51	87
10%	95	132	150	91	45	31	28	21	12	15	34	56
5%	56	118	102	57	31	26	22	15	8.7	13	25	46
2%	40	83	94	40	28	19	20	15	8.0	11	20	38
0%	38	83	72	21	20	12	18	14	5.4	11	9.0	38

Monthly Flows (in CFS) for
02462000 - Valley Creek near Oak Grove, Ala.

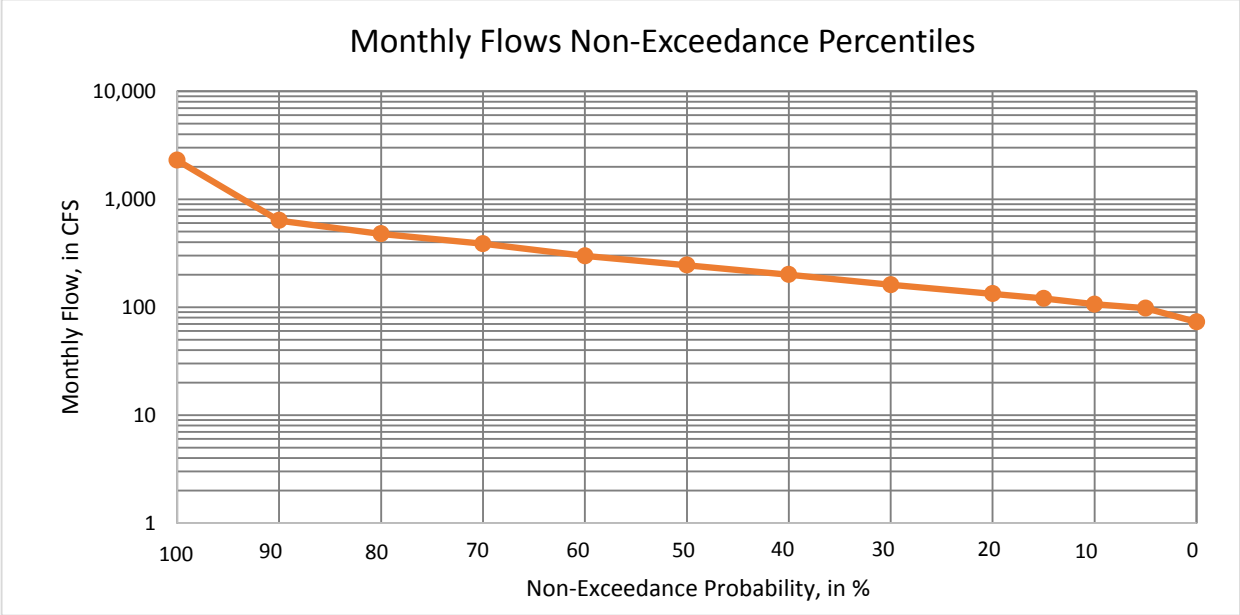
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975						313	394	259	297	304	185	290	
1976	404	262	1,815	309	907	363	201	207	331	174	211	397	468
1977	534	380	976	1,041	271	199	249	209	763	673	437	258	499
1978	490	236	365	193	661	343	179	156	121	76	117	253	267
1979	642	617	925	1,580	294	136	232	175	415	208	380	183	479
1980	534	448	1,440	1,044	715	186	101	85	126	171	201	127	432
1981	111	468	549	409	167	157	145	117	101	98	79	206	215
1982	640	721	365	595	238	461	173	232	85	92	158	869	383
1983	467	1,239	635	830	829	181	103	89	79	125	374	2,289	601
1984	504	326	395	612	388	118	98	139	79	121	163	160	258
1985	129	689	234	142	150	132	340	215	97	120	150	201	214
1986	133	206	237	99	116	108	102	136	125	173	368	367	181
1987	605	629	558	245	163	221	216	100	98	82	118	129	262
1988	373	291	251	224	118	83	112	101	216	174	396	252	215
1989	544	402	718	411	225	616	631	153	271	248	341	373	411
1990	931	1,139	684	230	194	147	119	88	73	86	123	261	335
1991	243	579	537	458	790	256	162	112	146	99	155	226	312
1992	269	478	327	276	98	120	181	152	265	125	517	479	272
1993	770	342	521	419	389	132	123	135	150	117	150	202	288
1994	473	506	642	477	241	237	266	161	227	274	259	470	352
1995	358	584	602	249	201	142	94	90	99	442	536	341	310
1996	913	503	862	368	281	165	450	225	156	146	196	277	379
1997	643	502	448	293	221	326	248	125	104	142	195	354	299
1998	913	682	520	626	225	138	145	144	99	90	192	324	340
1999	798	443	615	287	210	307	207	98	91	169	146	171	295
2000	338	205	940	851	143	124	121	110	81	101	179	143	278
2001	369	452	807	506	165	321	202	253	608	173	241	534	385
2002	647	448	510	243	264	156	198	118	289	248	381	498	333
2003	322	656	468	344	930	454	330	159	139	103	142	153	348
2004	228	754	331	197	162	179	154	127	292	141	612	423	296
2005	257	389	445	540	261	497	459	241	138	100	148	269	311
2006	439	777	520	321	318	124	123	110	107	152	179	220	279
2007	300	270	186	162	115	99	120	100	113	93	103	129	149
2008	161	390	344	315	359	160	154	219	119	83	106	254	221
2009	423	364	605	339	406	229	208	174	454	594	502	607	409
2010	454	522	644	385	401	199	171	157	103	114	177	187	292
2011	247	269	640	343	173	113	180	100	440	94	193	400	266
2012	500	389	387	222	197	129	167	296	243	269	167	442	284
2013	826	745	533	474	371	272	289	272	125	89	151	396	377
2014	273	497	443	843	328	293	133	136	119	146	221	610	335

Non-Exceedance Percentiles

02462000 - Valley Creek near Oak Grove, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	111	205	186	99	98	83	94	85	73	76	79	127	149
5th %	133	233	237	160	116	107	101	89	79	83	106	129	210
10th %	214	267	311	196	138	117	103	97	84	89	118	152	215
15th %	246	284	340	223	159	123	118	100	96	91	139	169	247
20th %	264	336	365	238	164	128	121	101	98	93	148	186	264
30th %	328	389	444	280	196	137	141	116	103	101	154	216	279
40th %	379	444	512	316	221	156	159	132	119	118	173	253	292
Median	454	468	533	344	241	180	176	141	125	133	189	273	310
60th %	498	503	593	410	279	208	199	157	148	149	198	346	335
70th %	540	582	638	476	347	261	210	174	232	173	246	397	350
80th %	642	666	697	602	394	314	252	216	289	216	375	448	384
90th %	804	747	928	844	730	372	345	243	418	277	444	541	439
Maximum	931	1,239	1,815	1,580	930	616	631	296	763	673	612	2,289	601
Average	467	508	590	449	325	223	207	157	200	176	241	368	324

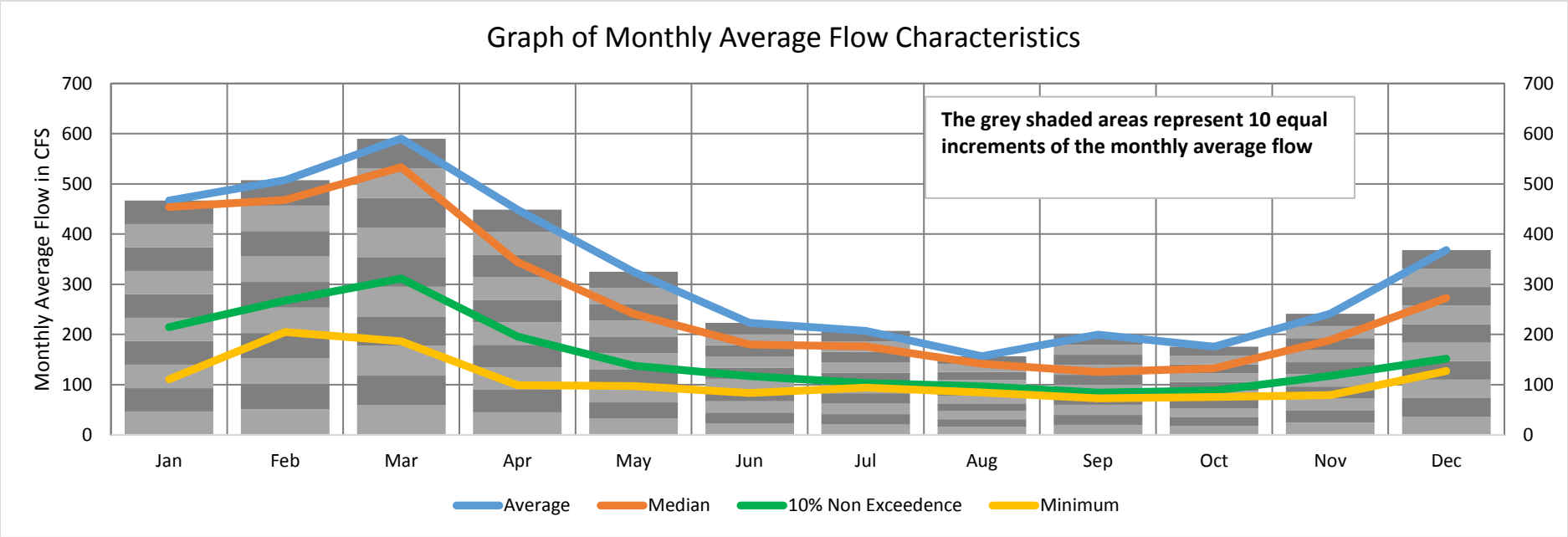
	Flows in CFS
Minimum	72.9
5th %	98
10th %	106
15th %	120
20th %	133
30th %	161
40th %	200
Median	245
60th %	298
70th %	386
80th %	477
90th %	633
Maximum	2,289
Average	324



Q10/Q50	0.43
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.49
Q5/DA	0.66
Q10/DA	0.72
Q15/DA	0.81
Q20/DA	0.90
Q30/DA	1.09
Q40/DA	1.35
Q50/DA	1.65
Q60/DA	2.02
Q70/DA	2.61
Q80/DA	3.22
Q90/DA	4.28
Qmax/DA	15.47

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

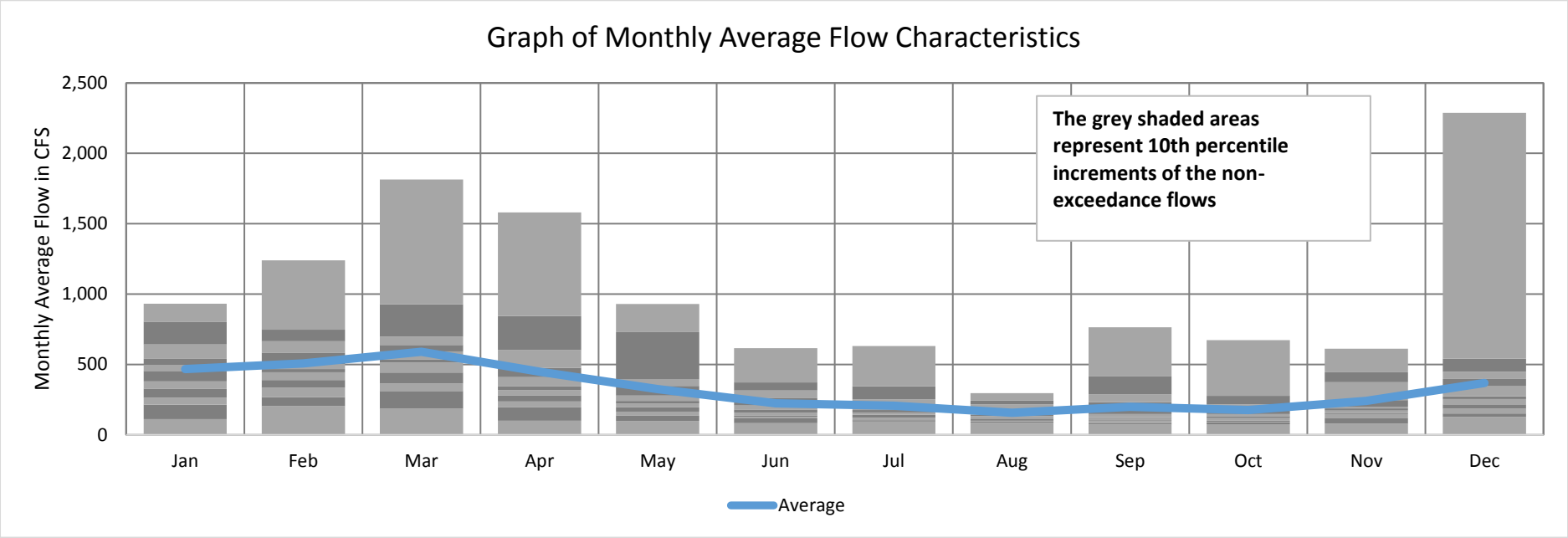
Site #: 02462000 Name: Valley Creek near Oak Grove, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	467	508	590	449	325	223	207	157	200	176	241	368
100%	931	1,239	1,815	1,580	930	616	631	296	763	673	612	2,289
98%	918	1,163	1,530	1,173	912	523	497	277	642	612	552	1,181
95%	913	813	1,022	1,041	837	463	451	260	462	449	518	623
90%	804	747	928	844	730	372	345	243	418	277	444	541
75%	623	623	643	523	380	297	236	207	267	174	348	406
50%	454	468	533	344	241	180	176	141	125	133	189	273
25%	287	372	391	247	170	132	123	110	101	99	150	202
10%	214	267	311	196	138	117	103	97	84	89	118	152
5%	133	233	237	160	116	107	101	89	79	83	106	129
2%	125	206	222	132	111	96	97	87	77	80	98	128
0%	111	205	186	99	98	83	94	85	73	76	79	127

Site #: 02462000 Name: Valley Creek near Oak Grove, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 148 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	467	508	590	449	325	223	207	157	200	176	241	368
100%	931	1,239	1,815	1,580	930	616	631	296	763	673	612	2,289
98%	918	1,163	1,530	1,173	912	523	497	277	642	612	552	1,181
95%	913	813	1,022	1,041	837	463	451	260	462	449	518	623
90%	804	747	928	844	730	372	345	243	418	277	444	541
75%	623	623	643	523	380	297	236	207	267	174	348	406
50%	454	468	533	344	241	180	176	141	125	133	189	273
25%	287	372	391	247	170	132	123	110	101	99	150	202
10%	214	267	311	196	138	117	103	97	84	89	118	152
5%	133	233	237	160	116	107	101	89	79	83	106	129
2%	125	206	222	132	111	96	97	87	77	80	98	128
0%	111	205	186	99	98	83	94	85	73	76	79	127

Monthly Flows (in CFS) for

02462500 - Black Warrior River at Bankhead Lock and

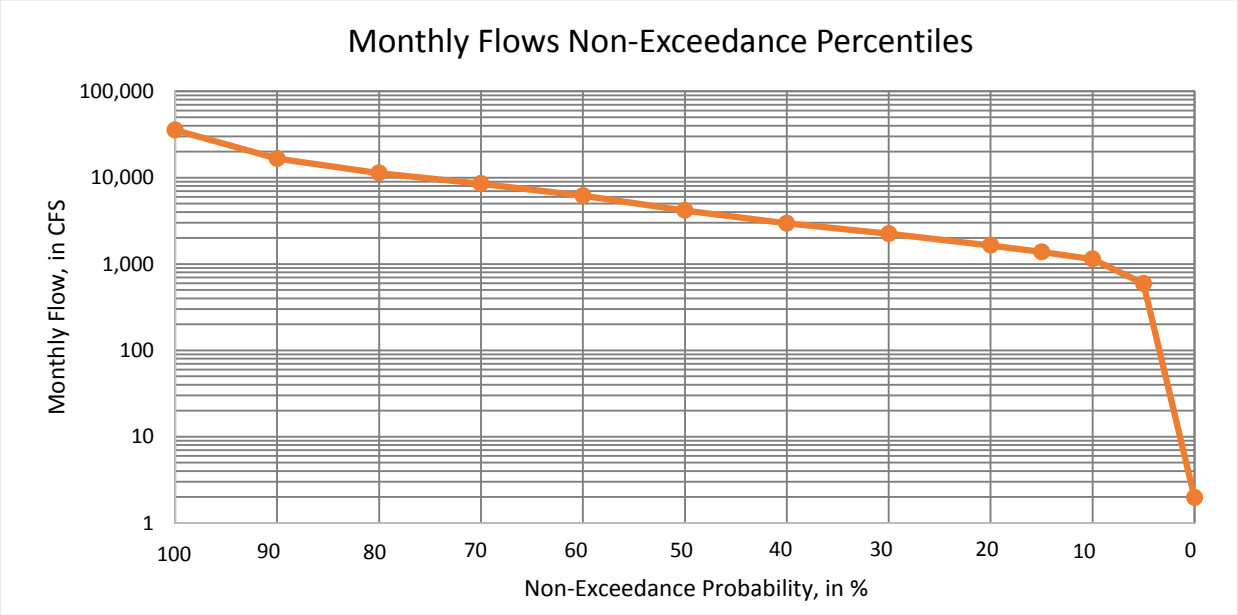
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	16,573	18,840	19,932	10,274	5,728	2,946	4,901	4,823	2,643	8,887	4,234	7,809	8,928
1976	13,305	8,676	20,770	8,551	12,565	3,873	2,890	2,110	2,512	1,125	1,477	5,310	6,947
1977	11,020	5,621	23,280	20,420	1,995	2,181	2,244	2,106	4,188	11,690	12,360	10,050	8,947
1978	12,150	6,439	7,335	2,095	9,862	4,581	2,264	2,340	1,651	589	586	2,540	4,376
1979	15,910	11,570	19,650	29,230	5,143	3,386	4,154	2,553	5,646	3,055	10,260	7,096	9,764
1980	11,180	9,291	35,390	24,670	11,600	2,745	2,259	1,980	2,920	3,656	4,798	6,541	9,767
1981	3,320	8,254	9,148	8,613	927	2,952	2,042	1,898	2,019	807	374	3,383	3,609
1982	16,510	15,990	8,816	14,990	4,613	4,856	3,172	2,680	1,214	827	1,999	17,230	7,695
1983	9,490	18,320	16,270	21,580	17,790	4,810	2,468	2,034	1,559	615	3,395	24,000	10,153
1984	11,100	8,291	8,598	15,660	13,870	2,195	2,006	2,222	1,052	750	2,267	6,382	6,192
1985	3,662	14,120	3,845	2,949	6,686	2,194	6,680	4,557	1,866	2,946	3,849	5,067	4,816
1986	2,688	4,884	4,237	841	1,422	2,965	1,598	1,440	1,845	1,583	3,844	6,356	2,796
1987	11,810	13,450	16,740	3,840	1,475	2,956	3,342	1,701	1,405	144	487	2,072	4,912
1988	7,177	6,220	2,677	4,343	880	1,153	1,217	1,375	3,122	2,496	5,990	5,018	3,448
1989	18,350	13,240	19,240	9,883	3,212	10,920	13,400	1,935	3,083	3,726	6,880	6,952	9,219
1990	18,070	35,550	19,410	3,777	4,213	1,992	1,869	1,652	1,337	296	491	7,855	7,884
1991	8,737	14,330	10,430	19,210	23,190	3,111	1,848	1,736	1,374	476	863	5,608	7,536
1992	4,422	7,383	5,185	2,648	568	1,658	2,592	3,175	3,992	1,523	9,062	10,620	4,379
1993	17,000	8,510	9,853	6,589	6,258	1,868	1,718	1,574	1,621	509	635	2,657	4,894
1994	10,450	15,930	20,190	16,560	2,449	2,481	4,250	2,988	2,187	3,181	4,623	11,380	8,008
1995	8,581	12,050	17,600	7,150	3,267	2,037	1,565	1,646	1,416	6,676	10,090	9,779	6,797
1996	17,830	13,350	16,280	8,247	2,974	2,017	3,548	2,478	2,954	1,306	4,096	8,476	6,939
1997	16,400	13,340	14,320	3,536	9,672	21,670	7,184	2,848	2,537	4,539	3,543	6,191	8,789
1998	24,030	20,040	17,010	14,900	3,057	2,303	2,199	2,257	1,140	663	594	4,254	7,635
1999	16,740	13,440	11,670	5,878	4,156	5,133	3,449	1,393	1,225	461	411	893	5,363
2000	3,606	2,464	20,600	23,180	1,233	1,238	1,168	1,196	860	126	1,467	1,361	4,875
2001	7,345	11,060	24,220	18,110	2,282	4,988	2,420	2,663	9,717	4,670	3,803	17,170	9,019
2002	14,620	10,240	8,185	7,036	10,090	1,890	3,206	1,662	2,893	3,862	10,820	13,090	7,293
2003	6,920	17,440	16,470	6,287	27,260	5,663	3,821	2,675	1,961	902	2,425	3,424	7,901
2004	6,305	19,130	9,677	2,488	2,023	4,810	4,945	1,993	4,257	1,914	16,380	18,420	7,609
2005	6,918	6,209	8,122	13,250	2,146	6,978	6,655	2,669	2,289	653	728	4,197	5,050
2006	7,879	13,840	7,205	6,669	5,966	1,532	1,333	1,815	1,264	1,651	4,802	2,999	4,684
2007	8,971	4,233	2,263	1,320	316	695	1,215	1,145	790	15	2	85	1,745
2008	500	5,420	7,420	4,318	7,739	2,036	1,525	1,963	1,203	173	179	8,683	3,430
2009	21,100	6,575	17,980	10,640	12,690	3,583	1,985	2,371	9,931	16,440	10,380	17,640	11,004
2010	11,660	14,200	14,570	7,898	10,740	2,390	967	1,017	423	249	1,295	1,230	5,510
2011	6,144	4,745	19,960	18,870	2,618	1,118	2,013	1,450	9,478	433	2,370	10,860	6,673
2012	18,980	9,678	9,871	2,292	1,451	777	1,561	2,631	3,545	2,537	1,224	7,003	5,127
2013	24,870	16,120	12,100	11,230	12,880	3,596	6,458	6,196	1,804	232	1,346	8,525	8,766
2014	7,753	14,810	6,951	19,820	4,202	4,425	1,527	1,378	1,269	2,598	1,568	9,706	6,260

Non-Exceedance Percentiles

02462500 - Black Warrior River at Bankhead Lock and

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	500	2,464	2,263	841	316	695	967	1,017	423	15	2	85	1,745
5th %	3,288	4,719	3,787	2,056	864	1,101	1,213	1,193	856	143	365	1,213	3,398
10th %	3,656	5,366	5,090	2,468	1,202	1,230	1,321	1,378	1,131	226	479	2,001	3,592
15th %	5,886	6,121	7,167	2,904	1,447	1,639	1,527	1,433	1,212	289	571	2,639	4,378
20th %	6,795	6,395	7,403	3,729	1,891	1,886	1,564	1,549	1,256	455	627	3,306	4,790
30th %	7,631	8,280	8,751	5,418	2,399	2,037	1,863	1,689	1,396	607	1,274	4,789	5,009
40th %	8,877	9,523	9,864	6,889	3,150	2,260	2,030	1,920	1,639	784	1,532	5,958	5,919
Median	11,060	11,810	13,210	8,399	4,208	2,845	2,262	2,014	1,914	1,216	2,398	6,747	6,868
60th %	11,946	13,386	16,356	10,421	5,823	3,023	2,711	2,236	2,378	1,756	3,819	7,828	7,565
70th %	16,057	14,144	17,714	14,927	8,319	3,679	3,374	2,501	2,901	2,703	4,351	8,990	7,889
80th %	16,792	15,942	19,706	18,262	10,912	4,810	4,173	2,670	3,207	3,670	6,168	10,668	8,817
90th %	18,413	18,372	20,617	20,536	12,979	5,186	6,478	3,007	4,396	4,871	10,272	17,176	9,274
Maximum	24,870	35,550	35,390	29,230	27,260	21,670	13,400	6,196	9,931	16,440	16,380	24,000	11,004
Average	11,502	11,832	13,587	10,496	6,530	3,618	3,141	2,258	2,705	2,474	3,900	7,698	6,619

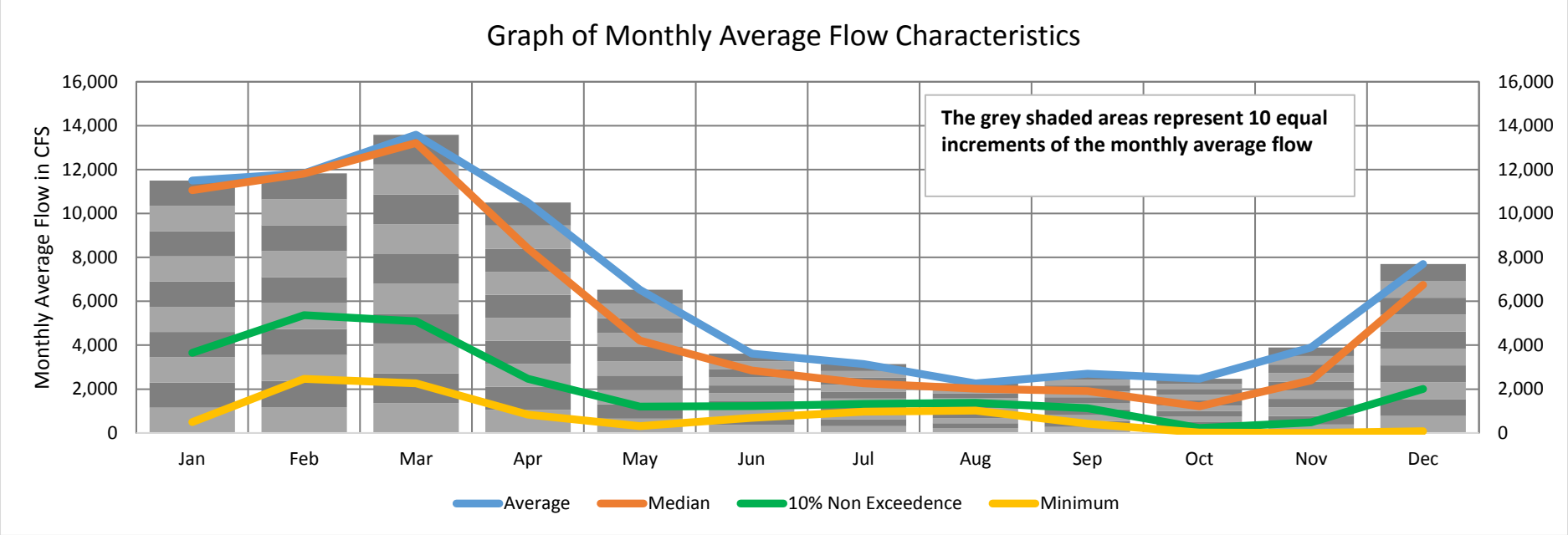
	Flows in CFS
Minimum	2.0
5th %	593
10th %	1,139
15th %	1,375
20th %	1,641
30th %	2,237
40th %	2,948
Median	4,155
60th %	6,163
70th %	8,486
80th %	11,260
90th %	16,590
Maximum	35,550
Average	6,645



Q10/Q50	0.27
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.00
Q5/DA	0.15
Q10/DA	0.29
Q15/DA	0.35
Q20/DA	0.41
Q30/DA	0.56
Q40/DA	0.74
Q50/DA	1.04
Q60/DA	1.55
Q70/DA	2.13
Q80/DA	2.83
Q90/DA	4.17
Qmax/DA	8.93

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

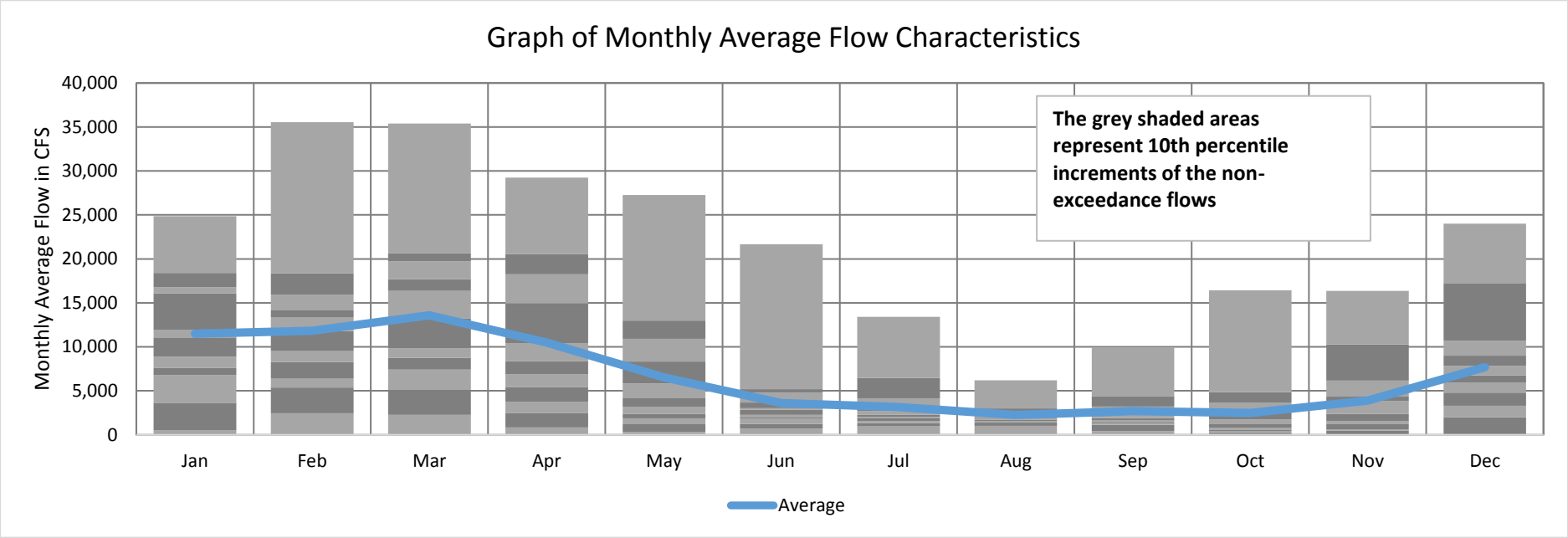
Site #: 02462500 Name: Black Warrior River at Bankhead Lock and
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,502	11,832	13,587	10,496	6,530	3,618	3,141	2,258	2,705	2,474	3,900	7,698
100%	24,870	35,550	35,390	29,230	27,260	21,670	13,400	6,196	9,931	16,440	16,380	24,000
98%	24,215	23,452	26,677	25,673	24,085	13,285	8,552	5,125	9,764	12,735	13,244	19,648
95%	21,247	19,176	23,327	23,255	18,060	7,175	6,705	4,570	9,490	9,028	10,897	17,679
90%	18,413	18,372	20,617	20,536	12,979	5,186	6,478	3,007	4,396	4,871	10,272	17,176
75%	16,526	14,450	19,283	15,885	9,919	4,464	3,616	2,639	2,986	3,087	4,799	9,847
50%	11,060	11,810	13,210	8,399	4,208	2,845	2,262	2,014	1,914	1,216	2,398	6,747
25%	7,113	7,181	8,169	4,199	2,115	2,011	1,688	1,651	1,320	501	829	4,004
10%	3,656	5,366	5,090	2,468	1,202	1,230	1,321	1,378	1,131	226	479	2,001
5%	3,288	4,719	3,787	2,056	864	1,101	1,213	1,193	856	143	365	1,213
2%	2,207	3,844	2,586	1,215	513	759	1,124	1,117	710	101	140	715
0%	500	2,464	2,263	841	316	695	967	1,017	423	15	2.0	85

Site #: 02462500 Name: Black Warrior River at Bankhead Lock and
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,981 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,502	11,832	13,587	10,496	6,530	3,618	3,141	2,258	2,705	2,474	3,900	7,698
100%	24,870	35,550	35,390	29,230	27,260	21,670	13,400	6,196	9,931	16,440	16,380	24,000
98%	24,215	23,452	26,677	25,673	24,085	13,285	8,552	5,125	9,764	12,735	13,244	19,648
95%	21,247	19,176	23,327	23,255	18,060	7,175	6,705	4,570	9,490	9,028	10,897	17,679
90%	18,413	18,372	20,617	20,536	12,979	5,186	6,478	3,007	4,396	4,871	10,272	17,176
75%	16,526	14,450	19,283	15,885	9,919	4,464	3,616	2,639	2,986	3,087	4,799	9,847
50%	11,060	11,810	13,210	8,399	4,208	2,845	2,262	2,014	1,914	1,216	2,398	6,747
25%	7,113	7,181	8,169	4,199	2,115	2,011	1,688	1,651	1,320	501	829	4,004
10%	3,656	5,366	5,090	2,468	1,202	1,230	1,321	1,378	1,131	226	479	2,001
5%	3,288	4,719	3,787	2,056	864	1,101	1,213	1,193	856	143	365	1,213
2%	2,207	3,844	2,586	1,215	513	759	1,124	1,117	710	101	140	715
0%	500	2,464	2,263	841	316	695	967	1,017	423	15	2.0	85

Monthly Flows (in CFS) for

02462951 - Black Warrior River at Holt Lock and Dam near Holt, Ala.

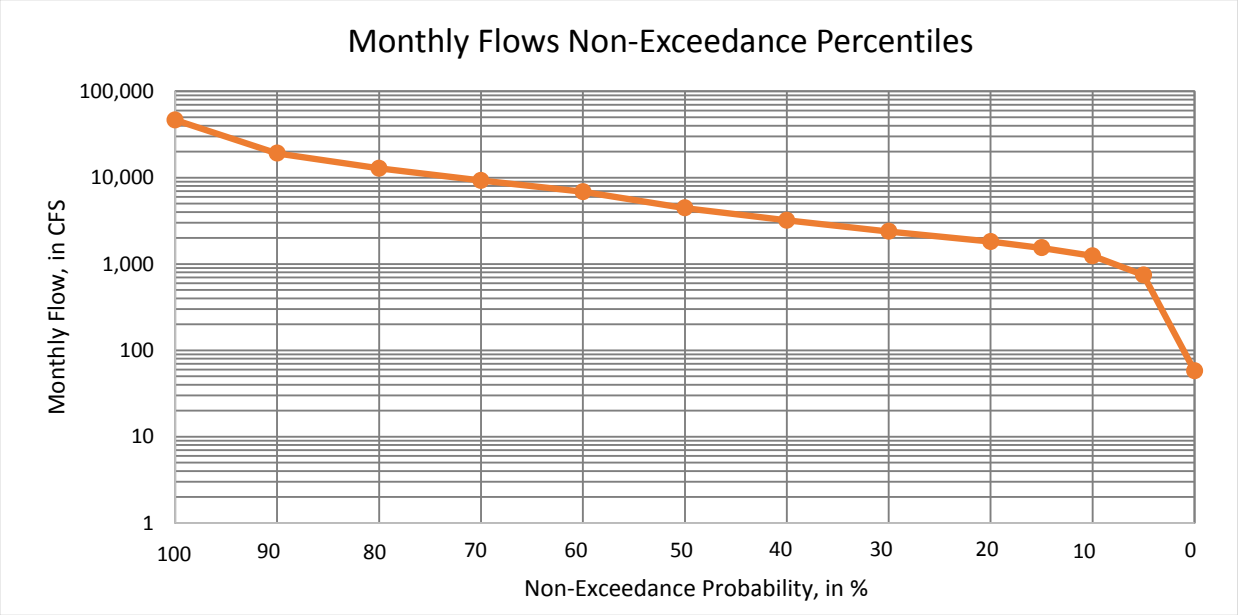
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	19,647	22,938	24,584	11,348	6,095	3,160	5,203	5,120	2,851	9,682	4,496	8,426	10,245
1976	15,189	9,433	25,872	9,286	14,225	4,118	3,103	2,310	2,718	1,136	1,434	5,523	7,887
1977	12,090	6,333	25,970	22,240	2,012	2,115	2,288	2,043	4,246	12,840	12,900	10,210	9,626
1978	13,070	6,501	7,851	2,187	10,520	4,701	2,165	2,239	1,573	541	508	2,574	4,545
1979	17,100	12,110	20,610	32,050	5,173	3,244	4,101	2,574	5,703	2,978	10,210	6,843	10,181
1980	11,230	9,272	38,490	26,820	11,760	2,623	2,143	1,863	2,942	3,664	4,576	6,172	10,146
1981	2,181	8,286	9,643	8,925	965	2,883	2,183	1,849	1,912	708	484	3,394	3,580
1982	17,380	17,400	9,000	15,820	4,657	5,162	3,272	2,860	1,252	914	2,167	18,510	8,147
1983	9,619	20,060	17,600	23,170	19,650	4,868	2,477	2,045	1,593	762	3,965	27,650	11,078
1984	11,500	8,481	8,974	16,500	14,560	2,389	2,209	2,409	1,092	995	2,532	6,173	6,477
1985	3,721	14,990	3,912	3,028	6,880	2,487	7,253	4,800	1,972	3,264	4,024	5,498	5,096
1986	2,907	5,102	4,382	952	1,595	2,961	1,621	1,477	1,816	1,658	4,195	7,056	2,965
1987	13,140	15,000	18,190	4,317	1,784	3,650	3,602	1,770	1,487	247	556	2,203	5,450
1988	7,852	7,087	3,060	4,916	990	1,249	1,267	1,390	3,982	2,836	7,672	5,751	3,974
1989	23,420	16,320	25,350	12,750	3,705	14,120	17,140	2,567	3,902	4,372	8,695	8,024	11,679
1990	24,800	46,480	24,750	4,319	4,880	2,468	2,174	1,707	1,379	310	580	9,312	10,054
1991	9,792	19,460	18,660	24,350	31,300	4,060	2,490	2,259	1,866	832	1,341	6,810	10,219
1992	5,749	10,210	6,879	3,777	888	2,181	2,946	3,419	4,511	1,752	10,440	12,150	5,371
1993	22,270	9,403	12,070	7,493	7,457	2,262	2,002	1,944	1,860	697	892	2,965	5,945
1994	12,700	19,640	21,780	18,400	2,762	2,811	4,680	3,280	2,321	3,969	4,866	12,390	9,069
1995	9,185	12,910	19,240	7,999	3,571	2,231	1,644	1,676	1,410	7,885	11,320	10,740	7,459
1996	22,400	15,490	18,950	9,103	3,232	2,258	4,392	2,795	3,213	1,470	4,696	9,259	8,080
1997	19,030	16,070	16,370	4,011	11,070	24,760	8,539	3,026	2,057	5,177	3,076	5,598	9,864
1998	26,030	22,380	18,800	16,260	3,303	2,283	2,287	2,262	1,124	717	1,083	4,765	8,362
1999	19,120	14,370	12,980	5,891	4,574	5,834	3,749	1,535	1,266	578	513	1,173	5,925
2000	4,084	2,869	20,630	23,790	1,691	1,542	1,244	1,203	935	105	90	5,885	5,346
2001	9,341	11,402	28,102	21,942	6,447	8,955	3,555	2,381	9,285	4,179	3,470	17,080	10,500
2002	15,290	11,140	9,309	7,703	11,680	2,463	3,417	1,811	3,427	4,432	11,750	14,520	8,072
2003	7,376	20,890	18,720	7,396	33,160	6,374	4,438	2,608	2,079	904	2,465	3,262	9,093
2004	6,326	22,860	12,080	2,706	2,176	5,131	5,153	2,239	5,187	2,105	20,630	22,150	8,956
2005	7,053	6,627	8,710	17,090	2,278	9,090	7,646	3,080	2,384	692	745	4,265	5,782
2006	9,173	16,840	8,414	6,898	6,835	1,613	1,413	1,475	1,320	1,723	4,336	3,557	5,224
2007	9,721	4,661	2,560	1,497	485	788	1,366	1,241	864	100	58	99	1,944
2008	941	5,856	7,432	4,591	9,168	2,144	1,576	2,010	1,197	195	212	9,562	3,742
2009	22,700	7,587	24,070	14,940	15,560	4,424	2,048	2,411	11,460	19,010	10,910	22,180	13,183
2010	14,890	15,540	17,390	8,791	11,530	3,051	1,722	1,640	560	766	1,451	2,360	6,603
2011	8,931	7,252	25,920	21,100	2,819	1,273	2,038	1,515	10,770	564	2,676	11,610	8,035
2012	20,700	10,900	10,810	2,438	1,861	885	1,626	2,685	3,744	2,577	1,301	8,165	5,637
2013	30,660	20,350	14,050	12,740	16,340	4,249	8,665	6,543	1,844	403	1,506	11,660	10,734
2014	8,423	16,460	7,821	26,820	6,925	7,150	2,369	1,642	1,760	2,806	1,762	10,657	7,796

Non-Exceedance Percentiles

02462951 - Black Warrior River at Holt Lock and Dam near Holt, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	941	2,869	2,560	952	485	788	1,244	1,203	560	100	58	99	1,944
5th %	2,871	5,080	3,869	2,153	961	1,231	1,361	1,383	931	190	206	2,152	3,549
10th %	4,048	6,285	6,629	2,679	1,535	1,515	1,560	1,477	1,121	304	506	2,553	3,951
15th %	6,239	6,608	7,763	3,665	1,770	2,040	1,625	1,532	1,244	520	549	3,217	5,014
20th %	7,311	7,219	8,301	4,256	1,982	2,174	1,706	1,642	1,309	575	712	3,524	5,321
30th %	9,100	9,035	9,216	5,599	2,802	2,277	2,115	1,799	1,547	714	1,329	5,516	5,738
40th %	9,680	10,624	12,076	7,619	3,651	2,479	2,199	1,984	1,833	875	1,660	6,057	6,553
Median	11,795	12,510	16,880	9,014	5,027	2,922	2,423	2,239	1,942	1,303	2,604	6,950	7,961
60th %	13,840	15,196	18,684	12,744	6,853	3,406	3,171	2,338	2,346	1,893	3,989	8,759	8,233
70th %	17,184	16,362	19,651	16,332	9,574	4,302	3,646	2,569	3,023	2,879	4,520	10,344	9,253
80th %	19,858	19,496	24,173	21,268	11,696	5,137	4,486	2,808	3,918	4,011	7,877	11,758	10,153
90th %	22,772	21,039	25,877	23,846	15,638	7,331	7,292	3,294	5,239	5,448	10,951	17,223	10,523
Maximum	30,660	46,480	38,490	32,050	33,160	24,760	17,140	6,543	11,460	19,010	20,630	27,650	13,183
Average	13,168	13,674	15,750	11,909	7,664	4,250	3,580	2,393	2,922	2,764	4,265	8,655	7,552

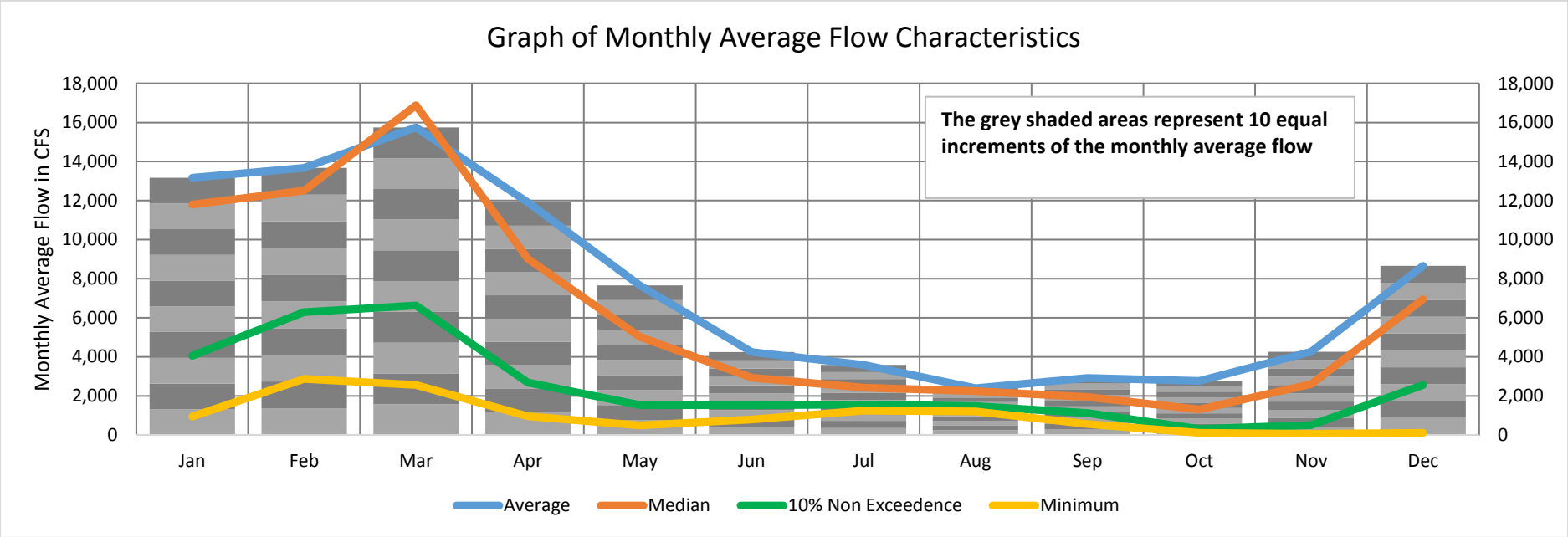
	Flows in CFS
Minimum	57.7
5th %	743
10th %	1,237
15th %	1,532
20th %	1,815
30th %	2,377
40th %	3,192
Median	4,435
60th %	6,838
70th %	9,263
80th %	12,768
90th %	19,132
Maximum	46,480
Average	7,583



Q10/Q50	0.28
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.01
Q5/DA	0.18
Q10/DA	0.29
Q15/DA	0.36
Q20/DA	0.43
Q30/DA	0.56
Q40/DA	0.76
Q50/DA	1.05
Q60/DA	1.62
Q70/DA	2.20
Q80/DA	3.03
Q90/DA	4.53
Qmax/DA	11.02

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

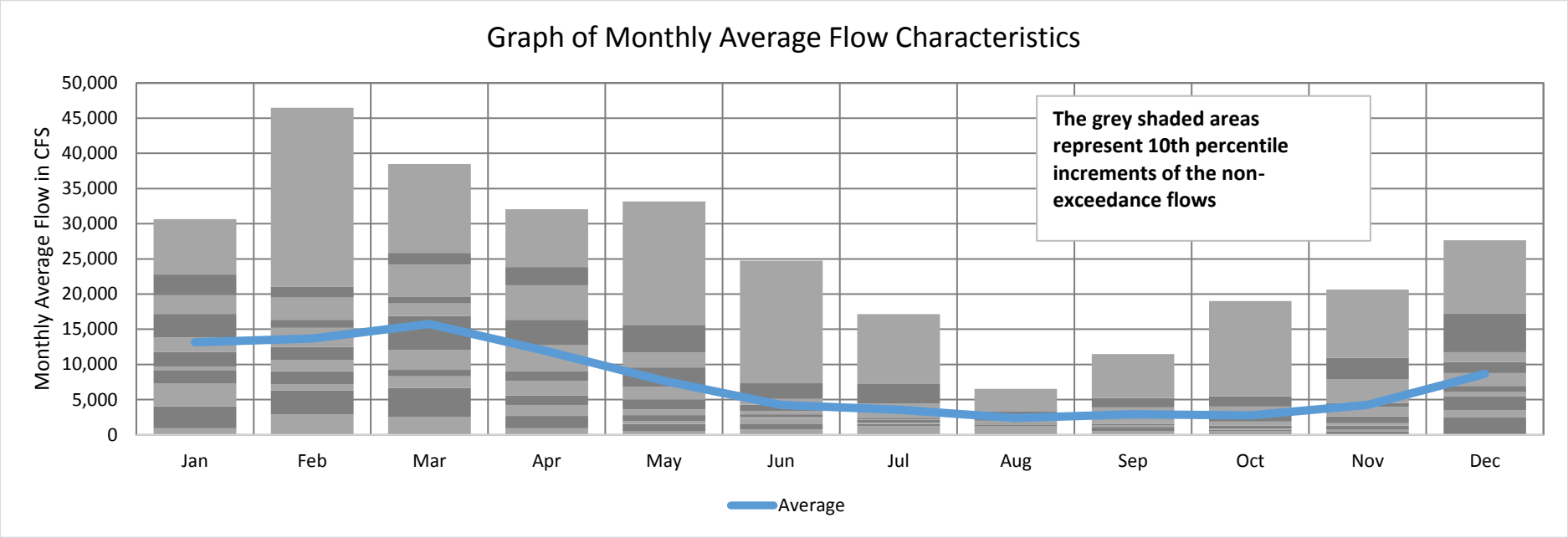
Site #: 02462951 Name: Black Warrior River at Holt Lock and Dam near Holt, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	13,168	13,674	15,750	11,909	7,664	4,250	3,580	2,393	2,922	2,764	4,265	8,655
100%	30,660	46,480	38,490	32,050	33,160	24,760	17,140	6,543	11,460	19,010	20,630	27,650
98%	27,049	28,117	30,387	27,971	31,709	16,461	10,530	5,433	10,922	14,197	14,601	23,383
95%	24,862	22,864	26,077	26,820	20,233	9,341	8,545	4,816	9,359	9,840	11,808	22,152
90%	22,772	21,039	25,877	23,846	15,638	7,331	7,292	3,294	5,239	5,448	10,951	17,223
75%	19,053	16,980	20,918	17,418	11,185	4,743	4,174	2,627	3,506	3,364	4,739	10,958
50%	11,795	12,510	16,880	9,014	5,027	2,922	2,423	2,239	1,942	1,303	2,604	6,950
25%	8,280	8,111	8,908	4,523	2,253	2,251	2,029	1,699	1,402	696	1,035	4,640
10%	4,048	6,285	6,629	2,679	1,535	1,515	1,560	1,477	1,121	304	506	2,553
5%	2,871	5,080	3,869	2,153	961	1,231	1,361	1,383	931	190	206	2,152
2%	1,908	4,267	2,950	1,377	799	863	1,262	1,233	797	104	83	937
0%	941	2,869	2,560	952	485	788	1,244	1,203	560	100	58	99

Site #: 02462951 Name: Black Warrior River at Holt Lock and Dam near Holt, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,219 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	13,168	13,674	15,750	11,909	7,664	4,250	3,580	2,393	2,922	2,764	4,265	8,655
100%	30,660	46,480	38,490	32,050	33,160	24,760	17,140	6,543	11,460	19,010	20,630	27,650
98%	27,049	28,117	30,387	27,971	31,709	16,461	10,530	5,433	10,922	14,197	14,601	23,383
95%	24,862	22,864	26,077	26,820	20,233	9,341	8,545	4,816	9,359	9,840	11,808	22,152
90%	22,772	21,039	25,877	23,846	15,638	7,331	7,292	3,294	5,239	5,448	10,951	17,223
75%	19,053	16,980	20,918	17,418	11,185	4,743	4,174	2,627	3,506	3,364	4,739	10,958
50%	11,795	12,510	16,880	9,014	5,027	2,922	2,423	2,239	1,942	1,303	2,604	6,950
25%	8,280	8,111	8,908	4,523	2,253	2,251	2,029	1,699	1,402	696	1,035	4,640
10%	4,048	6,285	6,629	2,679	1,535	1,515	1,560	1,477	1,121	304	506	2,553
5%	2,871	5,080	3,869	2,153	961	1,231	1,361	1,383	931	190	206	2,152
2%	1,908	4,267	2,950	1,377	799	863	1,262	1,233	797	104	83	937
0%	941	2,869	2,560	952	485	788	1,244	1,203	560	100	58	99

Monthly Flows (in CFS) for
02463500 - Hurricane Creek near Holt, Ala.

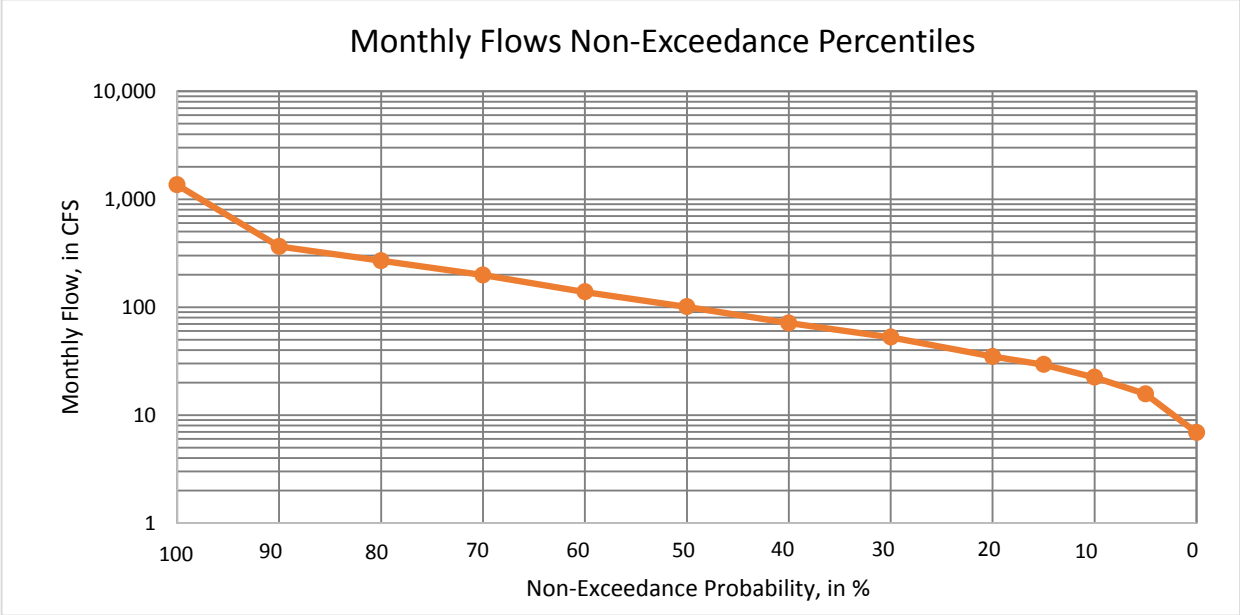
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	478	502	431	334	143	70	120	117	96	175	91	166	226
1976	407	154	1,354	336	403	106	54	54	51	26	36	108	260
1977	255	195	1,102	537	69	37	40	26	89	233	227	140	247
1978	334	134	218	91	253	205	43	33	20	13	15	64	119
1979	288	270	506	1,271	146	94	77	60	181	106	139	78	266
1980	301	268	1,264	496	230	74	43	30	27	68	58	40	242
1981	34	263	232	204	53	70	33	23	15	17	15	50	83
1982	259	405	177	396	132	123	71	63	21	26	56	551	189
1983	203	545	363	692	411	111	66	41	38	28	216	789	290
1984	292	172	219	279	219	59	54	74	32	60	80	161	142
1985	91	388	148	102	81	39	82	54	14	37	41	80	95
1986	35	77	65	16	19	15	17	18	16	30	178	174	55
1987	411	270	309	122	65	75	56	15	22	8	20	32	117
1988	150	113	74	91	28	9	18	9	57	28	138	88	66
1989	280	151	456	277	82	234	334	48	50	53	118	188	190
1990	570	1,141	438	135	104	53	45	20	14	16	23	83	214
1991	116	321	313	212	468	219	102	42	39	21	63	90	166
1992	163	282	185	142	42	32	40	66	134	25	288	300	140
1993	511	199	262	189	167	56	32	45	32	22	71	98	140
1994	194	237	356	283	75	72	113	43	89	127	88	244	160
1995	191	446	401	192	80	50	29	20	32	208	270	209	176
1996	439	409	538	185	87	53	97	66	48	52	84	134	182
1997	353	292	332	179	101	313	135	61	33	48	93	181	176
1998	667	554	381	255	93	59	53	57	71	28	57	100	196
1999	293	239	285	137	73	177	114	18	13	35	29	51	122
2000	115	67	265	452	32	23	16	26	9	7	44	31	90
2001	119	178	448	268	47	114	42	58	229	31	34	198	147
2002	364	209	235	114	111	41	64	19	120	105	202	320	159
2003	156	385	310	249	648	303	291	109	47	30	63	62	220
2004	132	320	143	103	94	62	63	36	202	36	401	245	151
2005	116	272	308	356	107	240	283	96	55	28	42	106	166
2006	226	361	281	146	156	35	31	33	29	49	78	68	123
2007	178	136	72	38	17	9	16	7	20	9	8	13	43
2008	41	166	121	153	157	29	17	100	23	11	9	116	78
2009	250	152	453	213	237	73	56	49	360	288	357	457	246
2010	291	374	536	149	145	97	39	52	19	24	53	75	153
2011	108	138	484	233	42	28	38	9	143	15	55	173	122
2012	277	205	324	96	58	18	40	114	84	66	23	213	127
2013	408	520	223	198	193	91	128	133	28	19	33	247	183
2014	155	248	300	642	133	108	36	28	31	38	98	290	175

Non-Exceedance Percentiles

02463500 - Hurricane Creek near Holt, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	34	67	65	16	17	9	16	7	9	7	8	13	43
5th %	41	111	74	88	27	15	17	9	14	9	14	32	66
10th %	106	136	141	95	41	23	18	17	15	13	19	49	82
15th %	116	149	173	103	46	29	30	19	19	16	23	61	94
20th %	119	154	212	120	57	34	33	20	20	19	32	67	118
30th %	156	190	235	144	75	47	40	27	26	25	41	82	125
40th %	193	226	283	182	85	58	43	34	32	28	56	99	145
Median	253	265	310	201	102	70	53	44	35	30	63	125	159
60th %	283	276	342	240	132	74	59	53	49	36	81	169	175
70th %	296	333	410	277	149	100	73	59	62	50	94	191	185
80th %	372	391	453	340	198	116	104	66	90	67	147	244	216
90th %	443	504	536	500	268	221	129	101	147	132	231	302	246
Maximum	667	1,141	1,354	1,271	648	313	334	133	360	288	401	789	290
Average	256	294	373	264	145	92	76	49	66	56	100	170	161

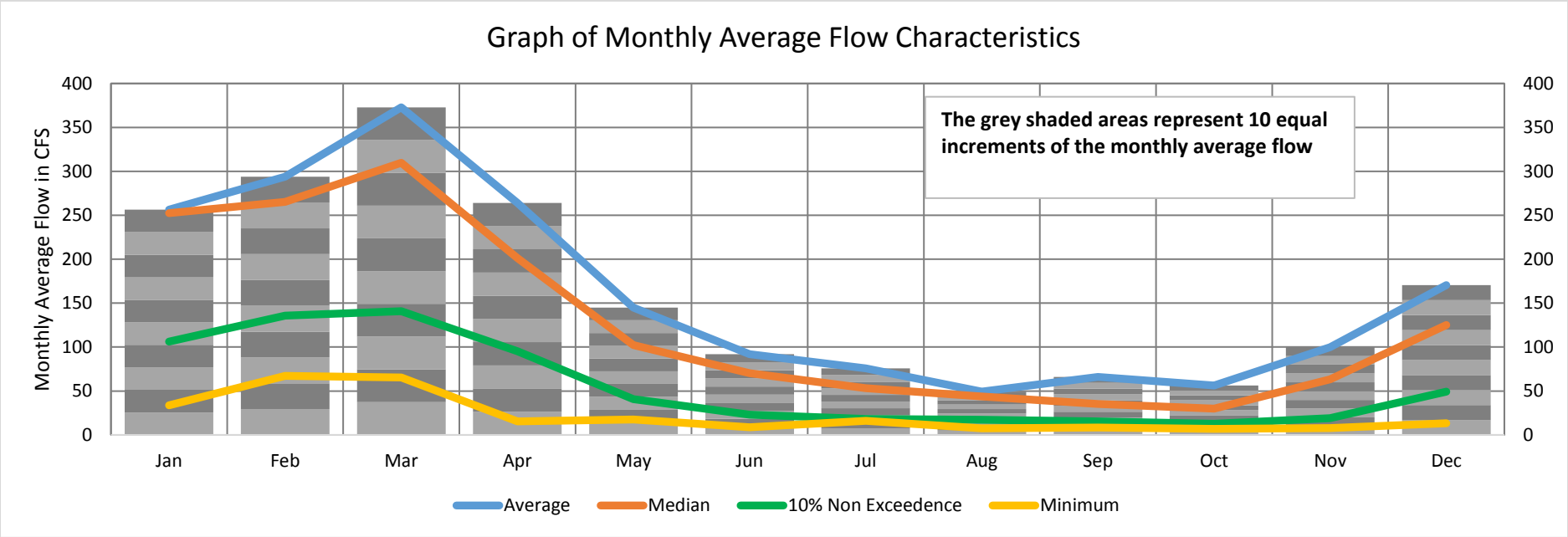
	Flows in CFS
Minimum	6.9
5th %	16
10th %	22
15th %	29
20th %	35
30th %	53
40th %	71
Median	101
60th %	138
70th %	198
80th %	269
90th %	365
Maximum	1,354
Average	162



Q10/Q50	0.22
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.06
Q5/DA	0.15
Q10/DA	0.21
Q15/DA	0.27
Q20/DA	0.32
Q30/DA	0.49
Q40/DA	0.66
Q50/DA	0.93
Q60/DA	1.28
Q70/DA	1.84
Q80/DA	2.49
Q90/DA	3.38
Qmax/DA	12.54

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

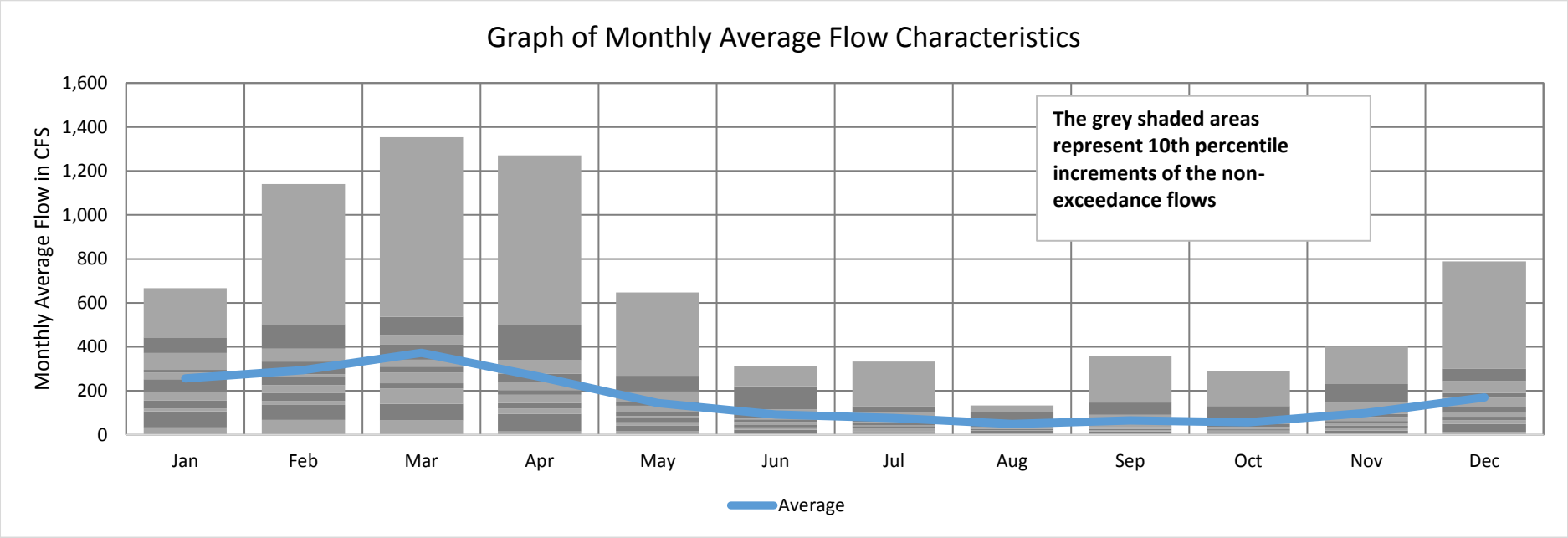
Site #: 02463500 Name: Hurricane Creek near Holt, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	256	294	373	264	145	92	76	49	66	56	100	170
100%	667	1,141	1,354	1,271	648	313	334	133	360	288	401	789
98%	591	683	1,284	819	508	305	301	121	258	245	367	603
95%	514	546	1,110	644	414	243	283	114	203	210	291	461
90%	443	504	536	500	268	221	129	101	147	132	231	302
75%	339	376	440	296	160	109	86	62	85	55	123	210
50%	253	265	310	201	102	70	53	44	35	30	63	125
25%	145	170	222	137	68	39	38	25	21	22	35	77
10%	106	136	141	95	41	23	18	17	15	13	19	49
5%	41	111	74	88	27	15	17	9.3	14	8.6	14	32
2%	34	75	71	33	19	8.9	16	8.6	12	8.0	8.9	27
0%	34	67	65	16	17	8.6	16	7.4	8.6	6.9	7.7	13

Site #: 02463500 Name: Hurricane Creek near Holt, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 108 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	256	294	373	264	145	92	76	49	66	56	100	170
100%	667	1,141	1,354	1,271	648	313	334	133	360	288	401	789
98%	591	683	1,284	819	508	305	301	121	258	245	367	603
95%	514	546	1,110	644	414	243	283	114	203	210	291	461
90%	443	504	536	500	268	221	129	101	147	132	231	302
75%	339	376	440	296	160	109	86	62	85	55	123	210
50%	253	265	310	201	102	70	53	44	35	30	63	125
25%	145	170	222	137	68	39	38	25	21	22	35	77
10%	106	136	141	95	41	23	18	17	15	13	19	49
5%	41	111	74	88	27	15	17	9.3	14	8.6	14	32
2%	34	75	71	33	19	8.9	16	8.6	12	8.0	8.9	27
0%	34	67	65	16	17	8.6	16	7.4	8.6	6.9	7.7	13

Monthly Flows (in CFS) for
02464000 - North River near Samantha, Ala.

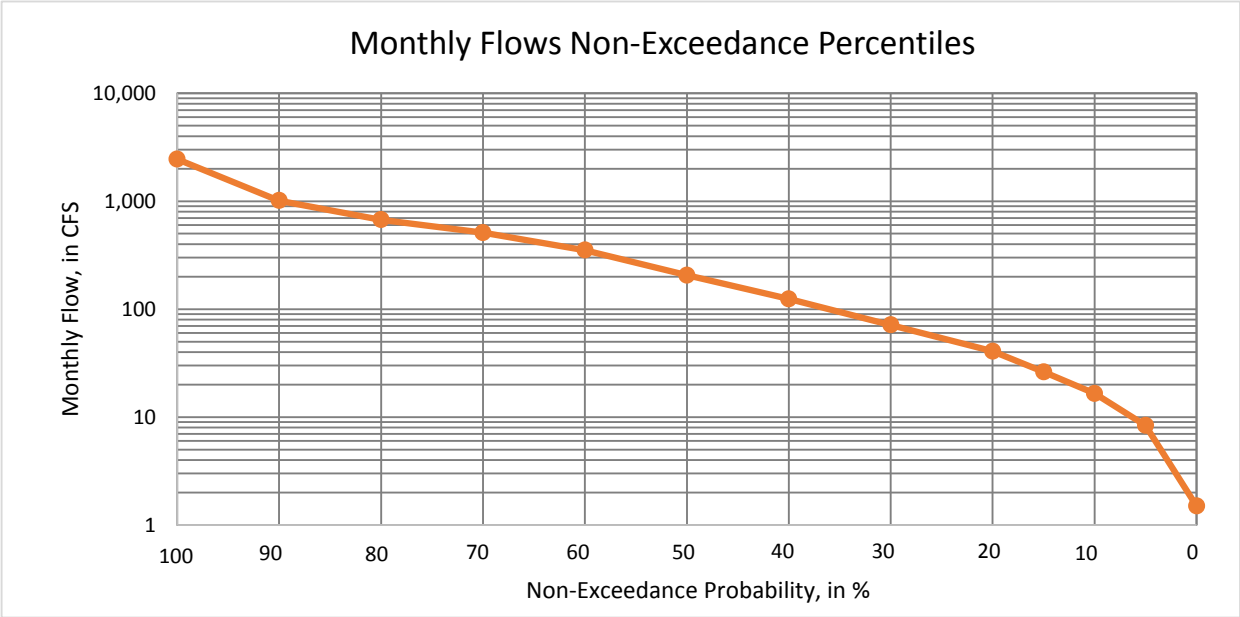
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,289	1,385	1,084	363	421	130	234	411	82	789	108	331	550
1976	784	578	1,594	395	1,036	173	95	32	43	27	60	268	425
1977	799	562	1,430	1,381	50	20	44	44	152	693	636	451	521
1978	672	240	639	164	693	263	29	25	10	8	17	125	242
1979	1,299	848	1,138	2,129	138	66	165	54	663	78	664	340	627
1980	879	466	2,450	1,503	559	83	32	21	57	102	379	223	564
1981	100	481	743	541	58	91	23	10	3	13	17	132	182
1982	905	1,009	403	922	146	184	86	132	11	24	225	1,209	434
1983	658	1,680	1,607	1,582	1,034	140	42	36	43	42	359	2,213	782
1984	606	673	808	1,188	648	66	60	30	6	58	124	120	363
1985	165	1,159	172	238	511	71	71	117	26	193	90	234	248
1986	100	339	377	64	91	94	12	7	4	33	218	341	139
1987	738	1,186	644	134	81	77	19	9	3	2	13	44	240
1988	247	371	134	316	78	13	6	3	101	71	381	189	157
1989	1,233	838	968	511	244	823	759	55	66	152	432	285	529
1990	1,409	2,071	1,102	285	344	209	92	13	5	12	30	446	493
1991	329	1,129	996	1,816	1,718	264	68	53	45	26	100	352	570
1992	257	635	381	211	56	159	88	186	102	18	423	611	258
1993	1,203	515	555	339	351	76	36	17	23	11	51	218	283
1994	815	1,004	1,078	725	95	148	249	63	55	118	240	570	427
1995	656	647	1,039	556	169	72	43	22	15	206	533	600	379
1996	1,067	509	956	417	141	69	160	78	74	58	328	649	376
1997	980	739	529	231	287	801	573	130	32	101	134	368	407
1998	1,368	1,052	816	619	95	41	61	147	11	19	42	398	386
1999	1,102	551	624	250	207	206	75	8	3	11	22	38	257
2000	290	176	1,210	1,338	74	23	5	5	2	2	52	84	272
2001	441	779	970	437	90	177	28	34	363	465	326	1,007	425
2002	694	556	539	299	460	139	65	31	155	254	607	769	380
2003	415	1,373	725	428	1,385	440	261	141	128	58	268	301	488
2004	465	1,504	628	180	120	282	362	80	78	45	674	1,003	445
2005	357	541	415	843	123	876	530	157	252	56	59	270	370
2006	735	1,130	586	179	205	19	9	14	17	203	409	254	309
2007	525	236	125	70	19	4	28	6	5	4	14	16	87
2008	68	421	574	168	360	40	9	9	8	5	9	630	191
2009	1,296	523	1,282	499	391	139	33	72	737	1,049	432	875	613
2010	774	666	1,000	601	818	96	39	19	6	7	46	88	346
2011	360	318	1,141	1,093	107	17	53	65	612	23	132	564	373
2012	797	533	782	101	101	30	17	29	43	107	39	483	255
2013	1,357	889	677	756	523	133	402	142	22	15	61	369	444
2014	387	873	474	1,426	198	147	31	10	6	33	45	392	330

Non-Exceedance Percentiles

02464000 - North River near Samantha, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	68	176	125	64	19	4	5	3	2	2	9	16	87
5th %	100	239	170	99	56	17	9	6	3	4	14	44	156
10th %	239	337	381	161	73	19	12	8	4	7	17	87	190
15th %	285	414	413	178	80	28	19	9	5	10	29	124	242
20th %	351	478	518	205	91	41	27	10	6	12	41	177	254
30th %	433	530	583	274	105	70	31	18	10	19	52	248	279
40th %	636	559	642	354	140	81	41	28	20	27	78	295	356
Median	715	656	762	432	202	113	56	33	38	44	128	347	377
60th %	789	803	961	547	310	139	69	54	49	58	231	394	414
70th %	887	923	1,012	734	400	164	89	67	75	102	337	507	437
80th %	1,122	1,129	1,109	1,112	530	206	179	119	107	160	412	615	498
90th %	1,296	1,374	1,297	1,434	839	298	366	142	263	275	540	888	565
Maximum	1,409	2,071	2,450	2,129	1,718	876	759	411	737	1,049	674	2,213	782
Average	715	780	835	632	356	172	125	63	102	130	220	446	379

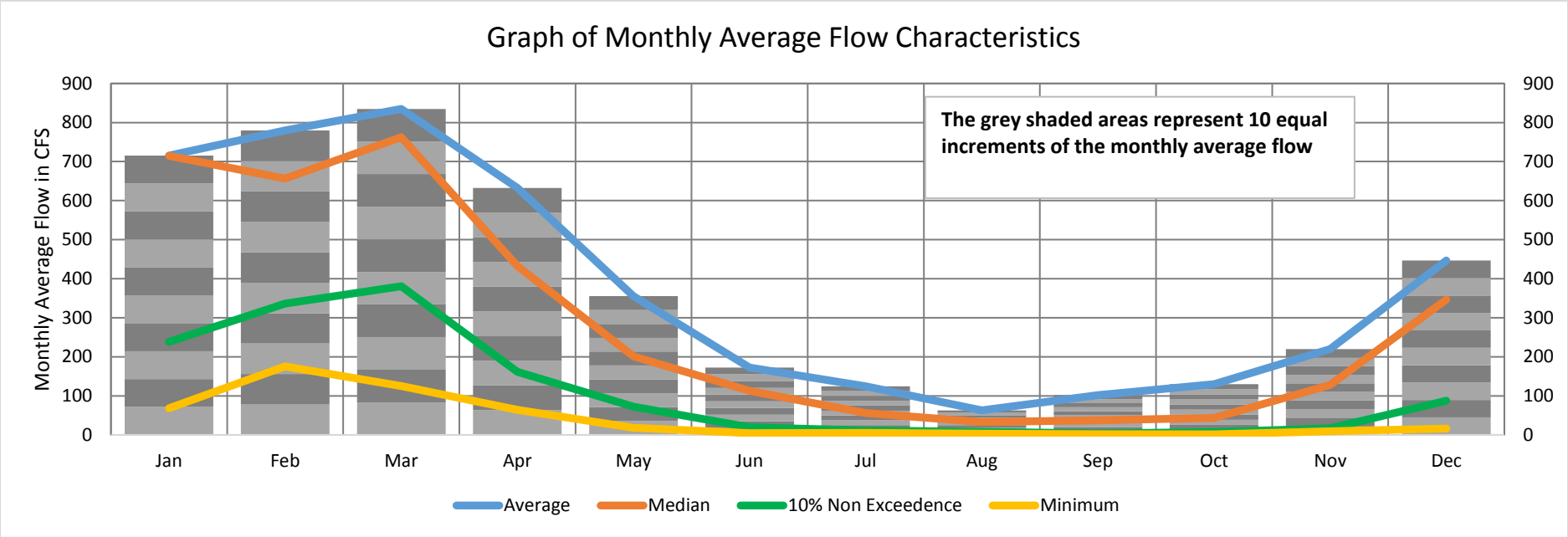
	Flows in CFS
Minimum	1.5
5th %	8
10th %	17
15th %	26
20th %	41
30th %	71
40th %	124
Median	206
60th %	351
70th %	511
80th %	673
90th %	1,012
Maximum	2,450
Average	381



Q10/Q50	0.08
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.04
Q10/DA	0.07
Q15/DA	0.12
Q20/DA	0.18
Q30/DA	0.32
Q40/DA	0.56
Q50/DA	0.92
Q60/DA	1.58
Q70/DA	2.29
Q80/DA	3.02
Q90/DA	4.54
Qmax/DA	10.99

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

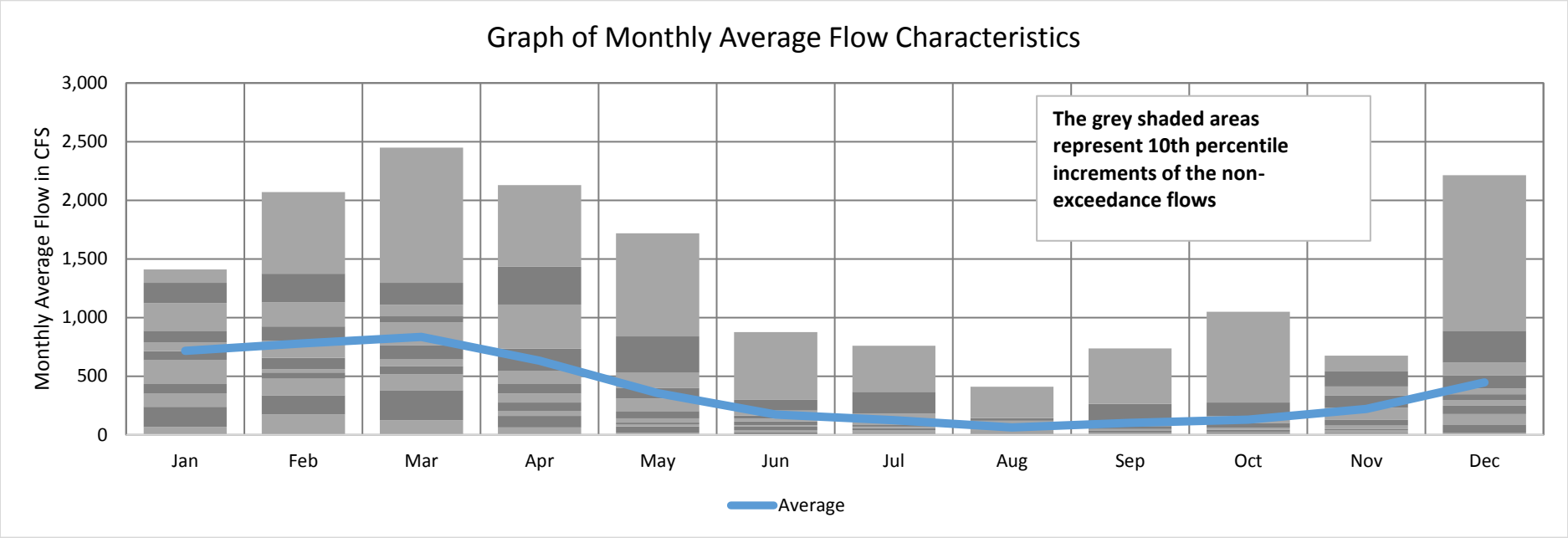
Site #: 02464000 Name: North River near Samantha, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	715	780	835	632	356	172	125	63	102	130	220	446
100%	1,409	2,071	2,450	2,129	1,718	876	759	411	737	1,049	674	2,213
98%	1,377	1,766	1,792	1,885	1,458	835	614	236	679	846	666	1,430
95%	1,358	1,513	1,595	1,594	1,053	802	532	158	615	698	637	1,017
90%	1,296	1,374	1,297	1,434	839	298	366	142	263	275	540	888
75%	1,002	1,020	1,080	862	473	179	111	79	87	110	379	577
50%	715	656	762	432	202	113	56	33	38	44	128	347
25%	380	513	551	236	95	66	29	14	7.5	14	46	222
10%	239	337	381	161	73	19	12	8.2	3.9	7.2	17	87
5%	100	239	170	99	56	17	8.8	5.6	3.2	3.6	14	44
2%	93	223	132	68	43	11	5.4	4.7	2.6	2.2	12	33
0%	68	176	125	64	19	4.3	4.9	3.3	1.6	1.5	9.1	16

Site #: 02464000 Name: North River near Samantha, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 223 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	715	780	835	632	356	172	125	63	102	130	220	446
100%	1,409	2,071	2,450	2,129	1,718	876	759	411	737	1,049	674	2,213
98%	1,377	1,766	1,792	1,885	1,458	835	614	236	679	846	666	1,430
95%	1,358	1,513	1,595	1,594	1,053	802	532	158	615	698	637	1,017
90%	1,296	1,374	1,297	1,434	839	298	366	142	263	275	540	888
75%	1,002	1,020	1,080	862	473	179	111	79	87	110	379	577
50%	715	656	762	432	202	113	56	33	38	44	128	347
25%	380	513	551	236	95	66	29	14	7.5	14	46	222
10%	239	337	381	161	73	19	12	8.2	3.9	7.2	17	87
5%	100	239	170	99	56	17	8.8	5.6	3.2	3.6	14	44
2%	93	223	132	68	43	11	5.4	4.7	2.6	2.2	12	33
0%	68	176	125	64	19	4.3	4.9	3.3	1.6	1.5	9.1	16

Monthly Flows (in CFS) for

02465000 - Black Warrior River at Oliver Lock and Dam at Northport, Ala. (represents streamflow for 03160112)

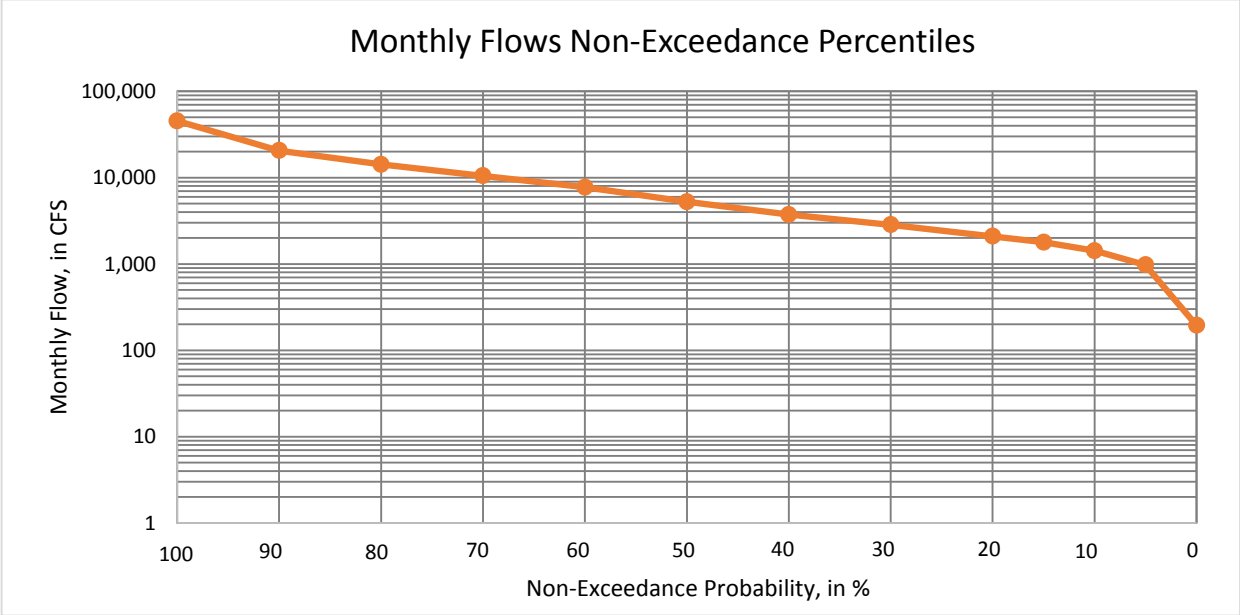
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	21,660	25,270	27,080	12,610	6,902	3,690	5,929	5,839	3,348	10,800	5,157	9,436	11,421
1976	16,790	10,530	28,500	10,370	15,740	4,743	3,627	2,747	3,201	1,328	1,892	7,259	8,923
1977	9,413	7,814	28,530	25,620	2,479	2,060	2,652	2,473	5,374	13,880	14,590	12,140	10,594
1978	15,130	7,876	10,120	2,790	12,020	6,031	2,669	2,783	1,996	1,233	1,001	3,100	5,572
1979	19,670	14,390	25,710	40,620	6,246	3,863	5,003	3,240	7,881	3,843	12,840	8,470	12,594
1980	14,320	11,980	45,340	33,340	14,000	3,402	2,537	1,914	2,703	4,414	5,922	7,559	12,299
1981	2,908	10,110	11,170	11,390	1,420	3,381	2,464	2,258	2,244	874	677	4,122	4,371
1982	19,980	20,040	11,080	18,620	5,748	6,160	3,947	3,525	1,405	1,177	2,836	22,190	9,668
1983	12,340	25,090	21,830	26,890	23,620	6,220	3,025	2,477	2,019	822	9,264	32,610	13,788
1984	14,170	10,830	11,390	19,210	16,460	2,978	2,816	3,053	1,403	1,393	3,328	7,730	7,885
1985	4,641	16,810	4,703	4,160	8,318	2,947	7,494	5,588	2,290	4,067	4,734	6,501	5,960
1986	3,421	6,062	5,243	1,236	2,001	3,443	1,803	1,672	2,044	1,911	4,947	8,560	3,514
1987	14,830	17,780	20,520	5,210	2,268	4,481	4,173	1,938	1,656	194	638	2,468	6,289
1988	8,773	8,339	3,760	6,068	1,260	1,454	1,489	1,619	3,891	3,244	8,023	6,490	4,499
1989	22,570	16,200	23,550	12,560	4,445	13,880	16,750	2,675	3,829	4,967	8,980	9,184	11,615
1990	23,600	44,360	24,120	5,461	6,047	3,097	2,668	1,969	1,569	361	686	8,751	10,026
1991	11,130	19,260	17,850	22,810	28,520	4,958	2,780	2,415	2,063	1,142	1,899	7,775	10,168
1992	6,775	10,470	7,885	4,652	1,291	2,929	3,178	4,309	4,772	1,982	11,220	13,190	6,020
1993	25,390	10,610	13,910	8,434	8,494	2,550	2,157	2,095	1,942	777	959	3,466	6,736
1994	13,530	22,450	24,660	20,530	3,149	3,172	5,353	3,742	2,725	4,371	5,335	12,960	10,088
1995	10,290	14,170	19,400	8,507	4,103	2,450	1,783	2,052	1,511	7,342	12,180	11,820	7,936
1996	26,470	15,850	21,160	9,863	3,585	2,429	4,964	3,166	3,547	2,071	5,233	10,620	9,066
1997	19,570	16,240	16,550	5,183	10,590	22,810	9,846	3,610	2,290	4,436	3,715	6,595	10,087
1998	29,020	22,520	20,290	16,880	4,052	2,610	2,714	2,842	1,589	1,055	1,117	5,654	9,126
1999	20,950	16,610	15,430	6,692	4,873	5,841	4,202	1,771	1,469	707	661	1,061	6,640
2000	4,692	3,232	20,800	29,850	2,321	1,902	1,456	1,535	1,283	223	2,768	2,849	6,068
2001	9,576	14,890	25,940	19,320	3,278	6,872	3,530	3,464	10,350	6,253	5,253	18,840	10,597
2002	16,900	13,010	10,360	8,360	10,780	2,601	3,650	1,756	4,038	5,180	13,370	15,810	8,802
2003	8,949	21,760	19,290	8,969	33,030	8,529	5,738	3,411	2,606	1,298	3,174	4,183	10,029
2004	7,619	26,470	12,210	3,633	3,023	6,322	6,315	2,678	5,225	2,405	20,180	21,990	9,713
2005	8,463	8,673	10,510	17,300	3,167	11,430	9,407	5,147	3,916	1,178	1,064	5,465	7,117
2006	10,860	18,210	10,660	8,550	7,561	1,910	1,628	1,783	1,550	2,321	5,753	4,062	6,159
2007	11,340	5,700	3,028	1,684	644	946	1,486	1,364	1,008	256	253	231	2,315
2008	976	7,102	8,673	5,444	8,951	2,631	2,032	2,431	1,321	350	377	10,320	4,213
2009	29,870	8,980	24,110	13,350	15,300	4,943	2,257	2,872	12,060	19,120	11,870	21,450	13,925
2010	14,350	15,540	18,270	9,488	12,510	3,663	1,870	1,589	647	557	883	1,727	6,720
2011	7,601	5,883	25,010	20,240	3,565	2,811	2,802	1,664	22,800	714	2,742	12,380	9,009
2012	20,660	11,840	12,190	3,153	2,258	1,971	2,109	3,874	4,353	2,995	1,522	9,249	6,342
2013	31,290	20,320	14,780	13,730	14,840	4,516	8,137	7,294	2,172	614	1,434	10,070	10,746
2014	9,038	16,480	9,112	26,490	5,878	5,774	1,897	1,271	1,221	3,298	2,133	11,860	7,789

Non-Exceedance Percentiles

02465000 - Black Warrior River at Oliver Lock and Dam at Northport, Ala. (represents streamflow for 03160112)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231	2,315
5th %	3,395	5,874	4,656	2,735	1,289	1,880	1,489	1,526	1,210	254	625	1,694	4,178
10th %	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811	4,487
15th %	7,477	7,867	9,046	4,578	2,267	2,374	1,860	1,671	1,405	605	853	3,411	5,902
20th %	8,294	8,606	10,312	5,205	2,447	2,530	2,005	1,768	1,503	712	993	4,110	6,058
30th %	9,301	10,512	11,143	6,505	3,245	2,757	2,402	1,960	1,636	1,001	1,496	6,239	6,551
40th %	11,022	11,924	13,230	8,533	4,083	3,049	2,669	2,352	2,034	1,211	2,498	7,439	7,520
Median	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515	8,862
60th %	14,950	16,216	19,756	12,906	7,166	4,110	3,569	2,807	2,712	2,355	5,031	9,324	9,343
70th %	19,600	17,101	21,361	17,696	9,443	4,948	4,182	3,188	3,632	3,462	5,460	10,980	10,046
80th %	21,092	20,096	24,228	20,298	12,808	6,057	5,430	3,542	4,101	4,418	9,037	12,496	10,594
90th %	25,498	22,777	26,054	26,530	15,812	7,038	7,558	4,393	5,625	6,362	12,246	19,101	11,683
Maximum	31,290	44,360	45,340	40,620	33,030	22,810	16,750	7,294	22,800	19,120	20,180	32,610	13,925
Average	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505	8,361

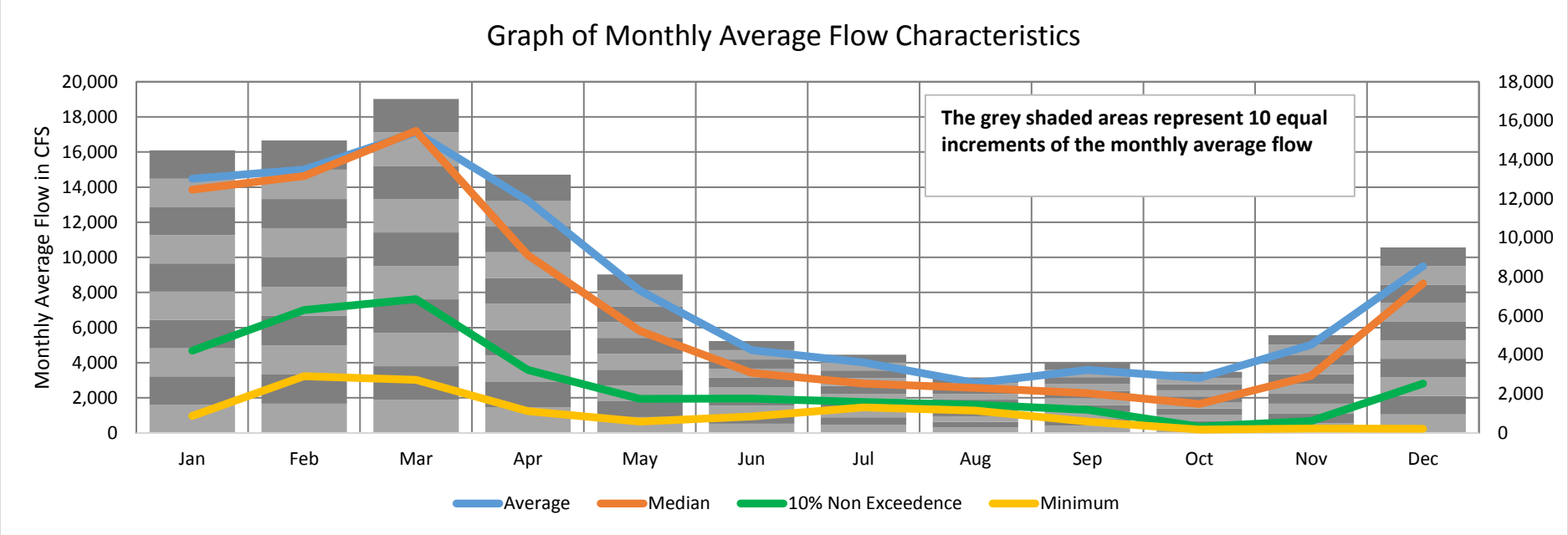
	Flows in CFS
Minimum	194.1
5th %	976
10th %	1,419
15th %	1,783
20th %	2,090
30th %	2,840
40th %	3,731
Median	5,238
60th %	7,748
70th %	10,482
80th %	14,200
90th %	20,521
Maximum	45,340
Average	8,396



Q10/Q50	0.27
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.04
Q5/DA	0.20
Q10/DA	0.29
Q15/DA	0.37
Q20/DA	0.43
Q30/DA	0.59
Q40/DA	0.77
Q50/DA	1.09
Q60/DA	1.61
Q70/DA	2.17
Q80/DA	2.95
Q90/DA	4.26
Qmax/DA	9.41

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

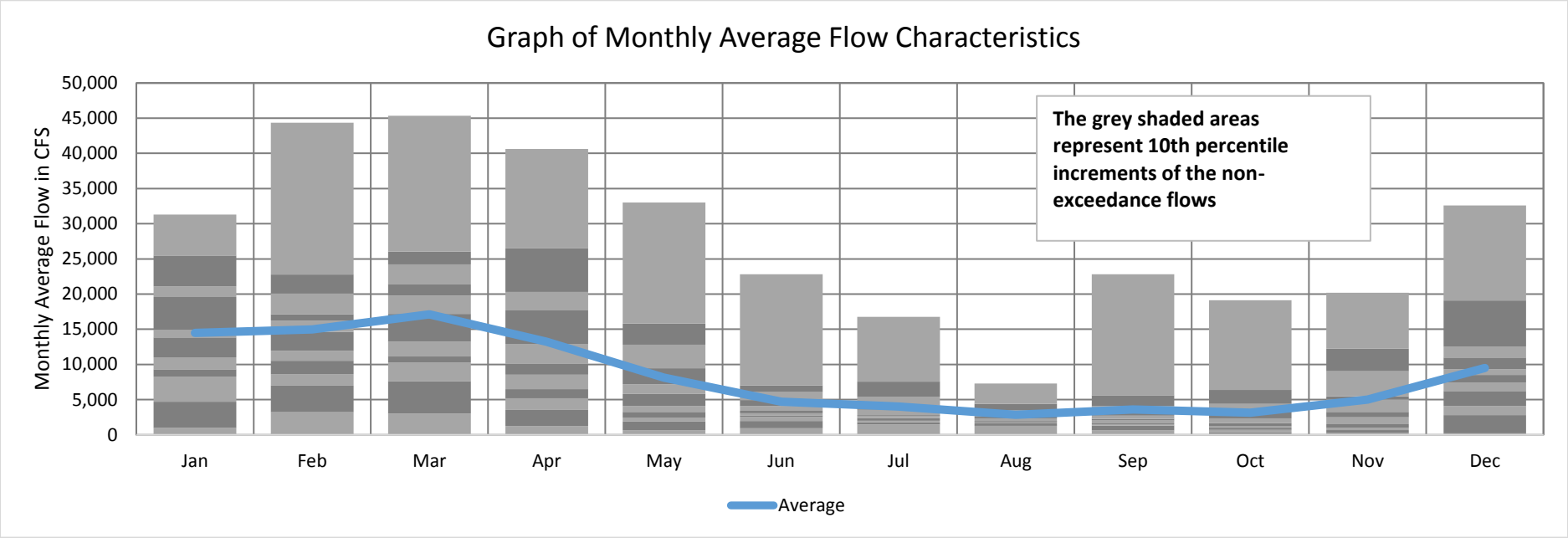
Site #: 02465000 Name: Black Warrior River at Oliver Lock and Dam at Northport, Ala. (represents streamflow for 03160112)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505
100%	31,290	44,360	45,340	40,620	33,030	22,810	16,750	7,294	22,800	19,120	20,180	32,610
98%	30,182	30,406	32,228	34,942	29,512	15,845	11,365	6,159	14,423	15,033	15,820	24,482
95%	29,063	25,330	28,502	30,025	23,865	11,553	9,429	5,601	10,436	10,954	13,431	22,000
90%	25,498	22,777	26,054	26,530	15,812	7,038	7,558	4,393	5,625	6,362	12,246	19,101
75%	20,150	18,473	23,690	19,238	11,090	5,791	4,974	3,424	3,897	4,143	6,447	11,930
50%	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515
25%	8,905	9,828	10,623	5,457	3,118	2,608	2,145	1,881	1,564	811	1,104	5,145
10%	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811
5%	3,395	5,874	4,656	2,735	1,289	1,880	1,489	1,526	1,210	254	625	1,694
2%	2,483	5,157	3,599	1,585	1,124	1,342	1,479	1,344	929	216	349	878
0%	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231

Site #: 02465000 Name: Black Warrior River at Oliver Lock and Dam at Northport, Ala. (represents streamflow for 03160112)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 4,820 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	14,488	14,994	17,118	13,232	8,118	4,710	4,008	2,848	3,583	3,129	5,015	9,505
100%	31,290	44,360	45,340	40,620	33,030	22,810	16,750	7,294	22,800	19,120	20,180	32,610
98%	30,182	30,406	32,228	34,942	29,512	15,845	11,365	6,159	14,423	15,033	15,820	24,482
95%	29,063	25,330	28,502	30,025	23,865	11,553	9,429	5,601	10,436	10,954	13,431	22,000
90%	25,498	22,777	26,054	26,530	15,812	7,038	7,558	4,393	5,625	6,362	12,246	19,101
75%	20,150	18,473	23,690	19,238	11,090	5,791	4,974	3,424	3,897	4,143	6,447	11,930
50%	13,850	14,640	17,200	10,117	5,813	3,423	2,809	2,576	2,267	1,652	3,251	8,515
25%	8,905	9,828	10,623	5,457	3,118	2,608	2,145	1,881	1,564	811	1,104	5,145
10%	4,687	6,998	7,621	3,585	1,943	1,965	1,768	1,616	1,317	359	676	2,811
5%	3,395	5,874	4,656	2,735	1,289	1,880	1,489	1,526	1,210	254	625	1,694
2%	2,483	5,157	3,599	1,585	1,124	1,342	1,479	1,344	929	216	349	878
0%	976	3,232	3,028	1,236	644	946	1,456	1,271	647	194	253	231

Monthly Flows (in CFS) for
02465400 - Big Sandy Creek at Duncanville, Ala.

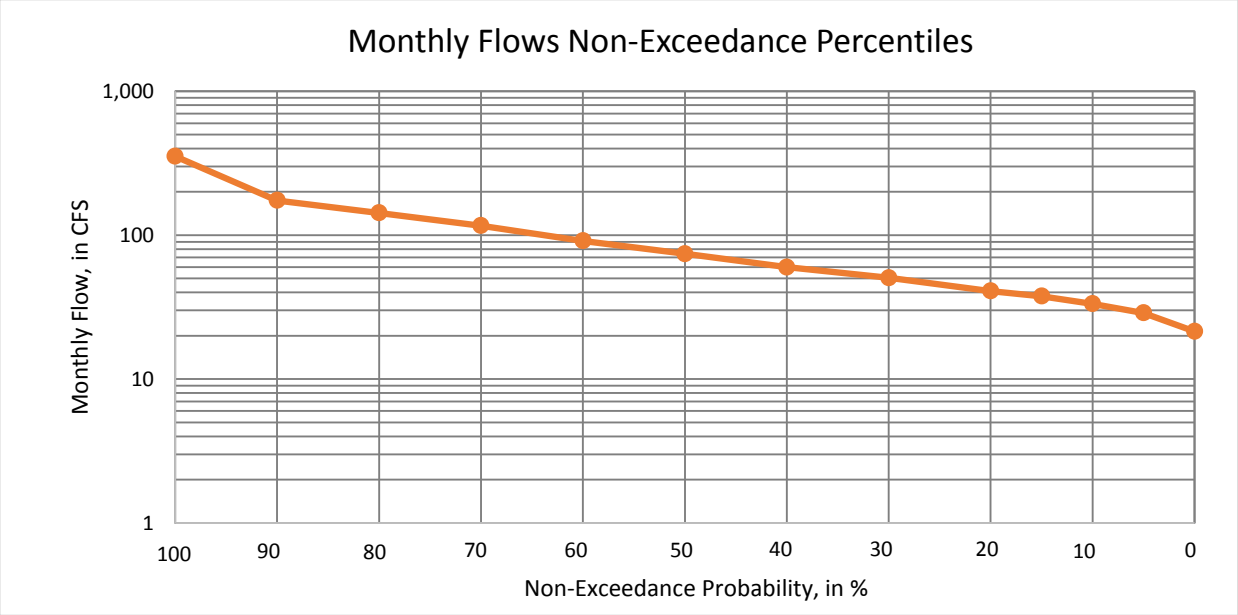
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	206	212	193	165	93	60	83	82	72	107	69	103	120
1976	186	98	353	165	185	77	51	51	50	35	41	78	115
1977	138	115	321	220	59	42	44	36	68	130	128	92	116
1978	165	89	124	70	137	119	46	40	32	27	29	56	78
1979	149	143	213	343	95	71	63	54	109	76	92	63	122
1980	154	142	342	210	129	61	45	38	36	59	54	44	109
1981	40	141	130	119	51	59	40	34	29	30	28	49	62
1982	139	186	108	183	88	84	60	56	32	36	52	223	104
1983	118	222	174	254	188	79	57	44	43	37	124	272	134
1984	151	106	125	146	124	54	51	61	39	54	64	101	90
1985	70	181	95	75	65	43	65	52	28	42	44	64	68
1986	41	63	57	29	31	29	30	30	29	38	108	107	49
1987	188	143	157	84	57	62	53	28	33	23	32	40	75
1988	96	80	62	69	37	23	31	23	53	37	91	68	56
1989	147	97	200	146	65	130	165	48	49	51	82	112	108
1990	228	326	195	90	76	51	47	32	28	29	34	66	99
1991	81	160	158	122	203	125	75	45	43	32	56	69	97
1992	102	148	111	93	45	39	44	58	89	35	149	154	88
1993	214	117	140	113	104	52	39	46	40	33	60	73	86
1994	115	131	172	148	62	60	80	45	69	86	68	134	97
1995	114	197	185	114	64	49	37	32	39	120	143	121	101
1996	195	187	220	111	68	51	73	57	48	50	66	90	101
1997	171	151	164	109	74	158	90	55	40	48	71	109	103
1998	249	224	179	138	71	54	51	53	60	37	53	74	103
1999	151	132	149	91	61	108	80	31	27	41	37	50	80
2000	81	58	142	199	39	34	29	36	23	21	46	38	62
2001	83	108	198	143	47	80	45	54	128	39	40	116	90
2002	174	121	131	80	79	44	56	31	83	76	118	160	96
2003	99	180	157	136	245	155	151	78	48	38	56	56	116
2004	88	160	93	75	71	56	56	41	118	42	185	134	93
2005	81	144	156	171	77	132	148	72	52	37	45	77	99
2006	127	173	147	95	99	41	38	40	37	49	63	58	80
2007	108	90	60	43	30	23	29	22	32	23	22	27	42
2008	44	103	83	98	99	38	30	74	34	25	24	81	61
2009	136	97	199	122	131	61	53	49	173	150	172	200	129
2010	151	177	220	96	94	72	43	50	31	34	51	62	90
2011	78	91	207	130	45	37	43	24	93	28	52	106	78
2012	146	119	162	72	53	30	44	80	66	58	34	122	82
2013	187	216	126	116	114	70	87	89	37	31	40	135	103
2014	98	135	154	243	89	78	42	37	39	43	73	150	98

Non-Exceedance Percentiles

02465400 - Big Sandy Creek at Duncanville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	40	58	57	29	30	23	29	22	23	21	22	27	42
5th %	44	79	61	68	36	28	30	24	28	23	28	39	55
10th %	77	90	92	72	44	34	31	30	29	27	31	49	62
15th %	81	96	106	75	47	38	38	31	31	29	34	55	67
20th %	83	98	122	83	53	41	40	32	32	31	39	58	77
30th %	99	113	130	94	62	48	44	36	36	35	44	65	82
40th %	114	127	148	110	67	53	45	41	39	37	52	73	90
Median	137	142	157	118	75	60	51	46	41	38	56	85	97
60th %	148	145	167	132	89	62	54	51	49	42	65	104	99
70th %	152	164	187	146	96	74	61	54	55	49	71	114	103
80th %	176	182	199	166	116	81	76	57	69	58	95	134	108
90th %	196	212	220	211	142	125	87	74	95	88	129	154	117
Maximum	249	326	353	343	245	158	165	89	173	150	185	272	134
Average	132	144	164	131	89	67	60	48	54	50	70	98	92

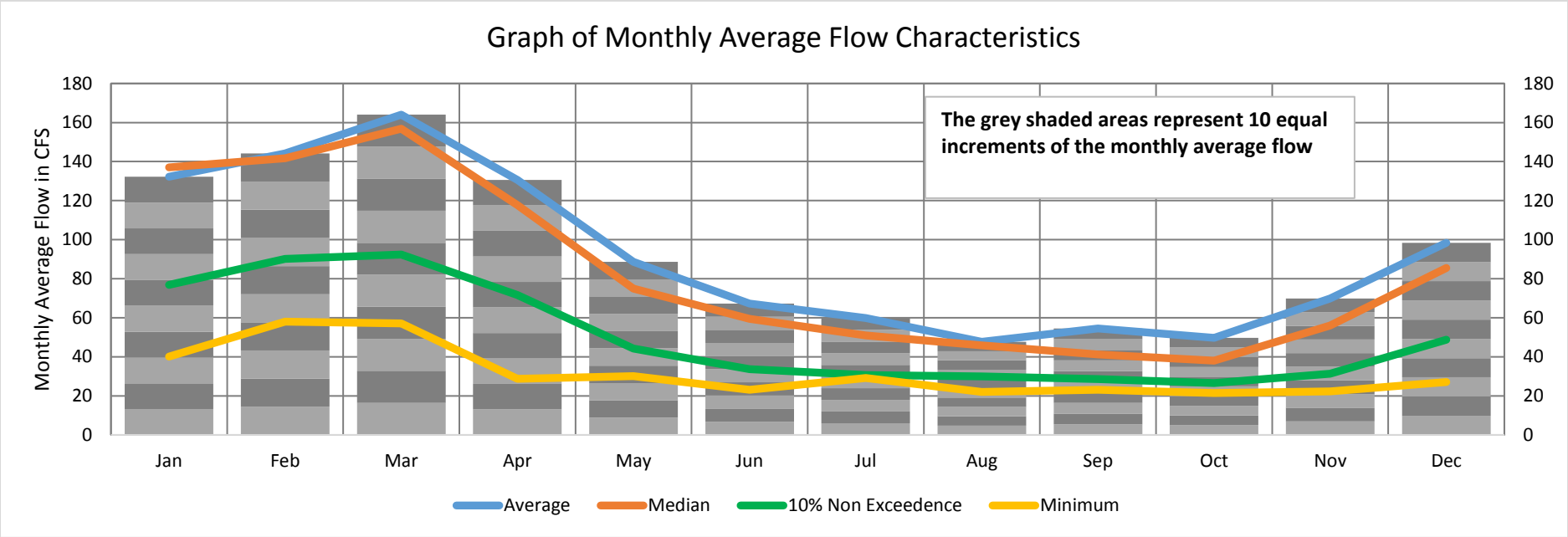
	Flows in CFS
Minimum	21.4
5th %	29
10th %	33
15th %	38
20th %	41
30th %	51
40th %	60
Median	74
60th %	91
70th %	116
80th %	143
90th %	174
Maximum	353
Average	92



Q10/Q50	0.45
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.38
Q5/DA	0.52
Q10/DA	0.60
Q15/DA	0.67
Q20/DA	0.73
Q30/DA	0.90
Q40/DA	1.07
Q50/DA	1.33
Q60/DA	1.63
Q70/DA	2.08
Q80/DA	2.56
Q90/DA	3.11
Qmax/DA	6.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

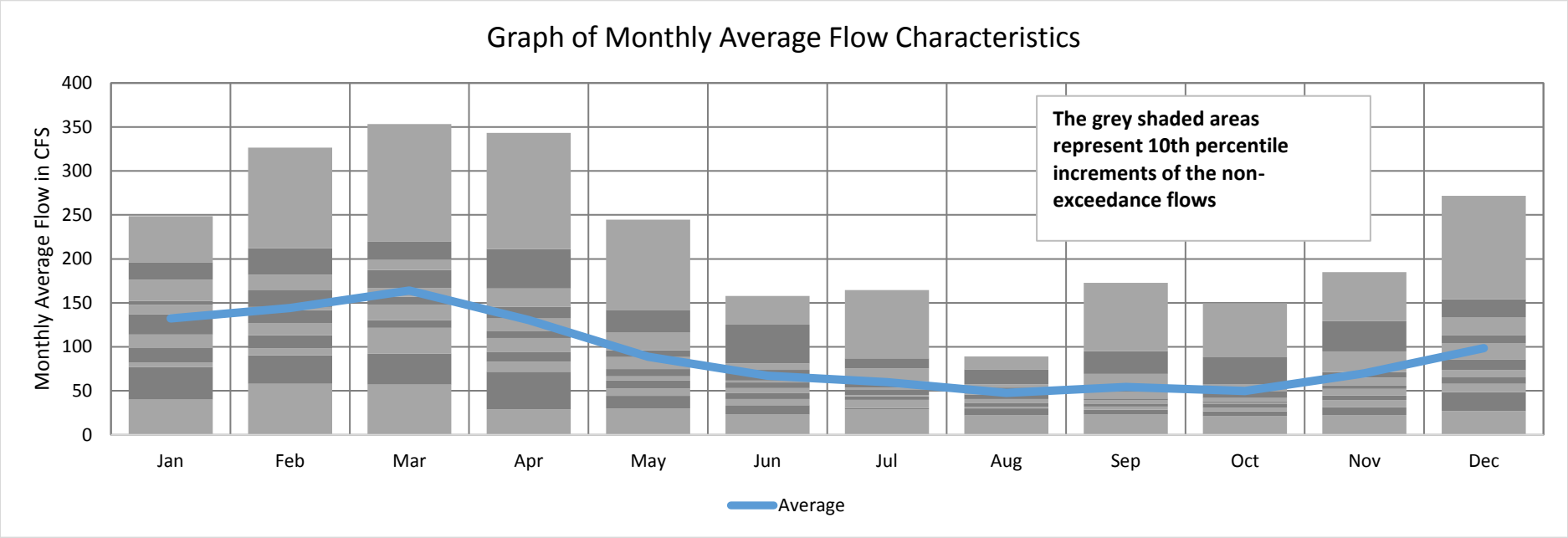
Site #: 02465400 Name: Big Sandy Creek at Duncanville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	132	144	164	131	89	67	60	48	54	50	70	98
100%	249	326	353	343	245	158	165	89	173	150	185	272
98%	232	247	345	273	212	155	154	83	138	134	175	234
95%	215	222	322	244	188	134	148	80	118	121	151	201
90%	196	212	220	211	142	125	87	74	95	88	129	154
75%	166	178	196	152	100	78	67	55	67	52	84	121
50%	137	142	157	118	75	60	51	46	41	38	56	85
25%	94	105	126	91	58	43	43	35	33	33	41	63
10%	77	90	92	72	44	34	31	30	29	27	31	49
5%	44	79	61	68	36	28	30	24	28	23	28	39
2%	41	62	60	40	31	23	29	23	26	22	23	36
0%	40	58	57	29	30	23	29	22	23	21	22	27

Site #: 02465400 Name: Big Sandy Creek at Duncanville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 56 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	132	144	164	131	89	67	60	48	54	50	70	98
100%	249	326	353	343	245	158	165	89	173	150	185	272
98%	232	247	345	273	212	155	154	83	138	134	175	234
95%	215	222	322	244	188	134	148	80	118	121	151	201
90%	196	212	220	211	142	125	87	74	95	88	129	154
75%	166	178	196	152	100	78	67	55	67	52	84	121
50%	137	142	157	118	75	60	51	46	41	38	56	85
25%	94	105	126	91	58	43	43	35	33	33	41	63
10%	77	90	92	72	44	34	31	30	29	27	31	49
5%	44	79	61	68	36	28	30	24	28	23	28	39
2%	41	62	60	40	31	23	29	23	26	22	23	36
0%	40	58	57	29	30	23	29	22	23	21	22	27

Monthly Flows (in CFS) for
02465493 - Elliots Creek at Moundville, Ala.

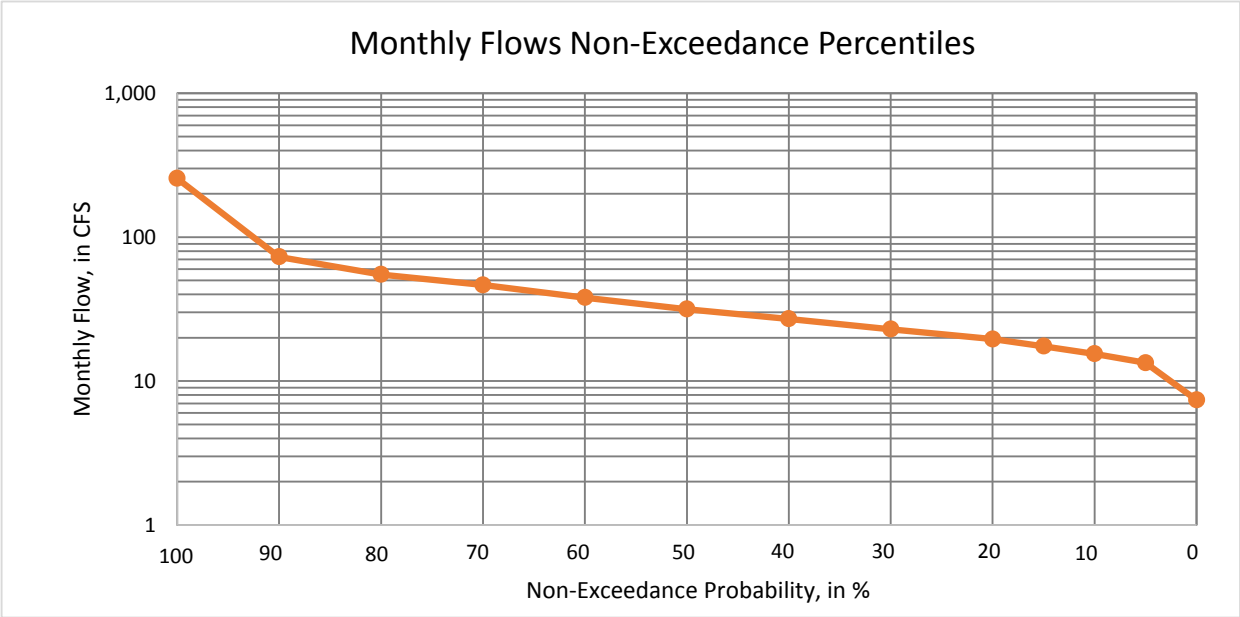
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975													
1976										31	32	42	9
1977	60	51	169	99	28	18	30	20	41	50	46	40	54
1978	64	45	52	33	59	29	20	20	19	15	19	35	34
1979	61	56	95	177	43	30	49	27	35	22	54	34	57
1980	69	42	130	113	73	36	29	21	22	43	39	35	54
1981	30	59	62	48	23	16	15	18	15	22	21	35	30
1982	64	72	47	66	36	25	22	21	15	17	32	77	41
1983	47	145	103	170	114	50	31	25	28	24	44	87	72
1984	56	50	54	83	49	23	32	27	19	33	34	46	42
1985	28	83	42	39	26	22	23	29	17	31	31	35	34
1986	29	28	26	19	27	19	15	14	14	18	47	46	25
1987	109	60	57	32	28	23	16	14	17	16	21	21	34
1988	26	22	20	23	13	7	13	8	12	16	26	28	18
1989	47	30	63	43	24	32	41	11	23	23	35	44	35
1990	93	256	91	55	36	24	21	14	14	16	25	37	55
1991	34	83	85	48	75	32	21	19	17	20	33	32	41
1992	39	55	40	30	17	19	16	22	27	15	50	55	32
1993	83	50	52	38	26	22	15	19	15	21	31	31	33
1994	59	69	84	53	23	24	24	15	35	48	33	54	43
1995	47	88	103	57	27	20	23	23	19	52	47	50	46
1996	98	110	98	63	26	24	28	21	26	25	28	38	48
1997	61	61	62	56	36	43	66	23	21	26	37	46	45
1998	118	115	83	53	25	35	25	22	25	55	35	42	52
1999	100	64	63	40	24	52	36	17	20	34	30	42	43
2000	42	28	47	66	18	16	12	12	12	14	36	29	27
2001	48	46	82	38	23	44	17	20	40	23	30	51	38
2002	71	50	50	29	26	22	18	13	20	27	38	60	35
2003	34	58	54	82	65	39	49	34	20	24	38	30	44
2004	32	88	39	39	20	27	21	26	25	19	50	44	35
2005	31	62	64	86	41	63	121	41	44	27	32	40	54
2006	51	63	66	39	32	17	17	15	16	24	28	29	33
2007	42	35	23	23	13	14	16	9	13	13	18	19	20
2008	21	49	33	31	21	10	10	18	10	10	16	30	21
2009	35	23	91	51	30	14	14	14	125	55	76	73	50
2010	65	73	89	51	49	36	25	18	13	20	34	29	42
2011	34	31	86	43	16	10	13	9	25	18	29	37	29
2012	48	53	52	20	22	12	13	16	22	23	22	46	29
2013	80	109	58	47	33	28	45	35	17	19	26	62	46
2014	46	64	68	110	31	23	16	14	14	20	29	47	40

Non-Exceedance Percentiles

02465493 - Elliots Creek at Moundville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	21	22	20	19	13	7	10	8	10	10	16	19	9
5th %	27	27	25	22	16	10	12	9	12	14	19	28	20
10th %	30	29	37	27	17	13	13	12	13	15	21	29	24
15th %	31	33	41	30	20	15	15	14	14	16	24	30	29
20th %	34	43	47	32	22	17	15	14	15	16	26	31	30
30th %	39	50	52	39	24	19	16	15	16	19	29	35	34
40th %	47	52	57	42	26	22	17	18	17	20	31	37	35
Median	48	59	63	48	27	23	21	19	20	23	32	40	40
60th %	59	62	66	53	30	26	23	20	21	24	34	44	42
70th %	64	68	84	57	35	30	28	22	24	27	36	46	44
80th %	70	83	90	76	42	35	32	24	26	32	41	50	49
90th %	95	109	99	102	61	43	46	28	37	48	48	60	54
Maximum	118	256	169	177	114	63	121	41	125	55	76	87	72
Average	55	66	68	58	34	26	27	20	24	26	34	42	39

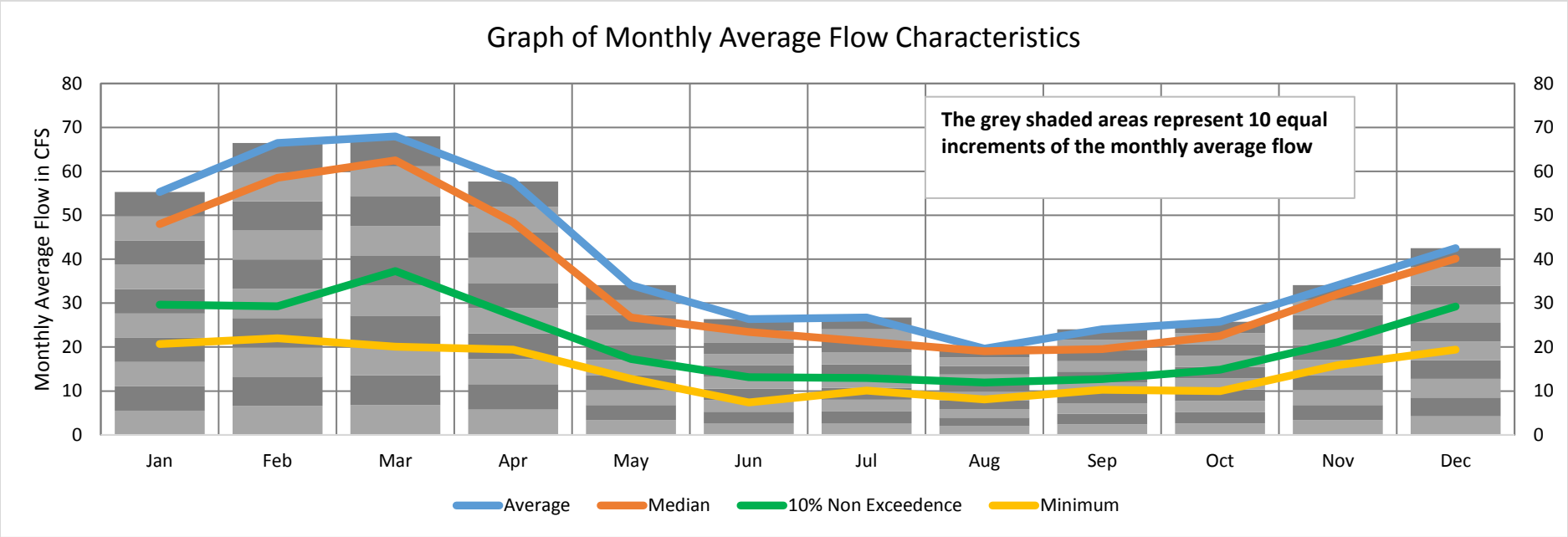
	Flows in CFS
Minimum	7.4
5th %	13
10th %	15
15th %	17
20th %	20
30th %	23
40th %	27
Median	32
60th %	38
70th %	47
80th %	55
90th %	73
Maximum	256
Average	40



Q10/Q50	0.49
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.23
Q5/DA	0.41
Q10/DA	0.48
Q15/DA	0.54
Q20/DA	0.61
Q30/DA	0.71
Q40/DA	0.84
Q50/DA	0.98
Q60/DA	1.18
Q70/DA	1.44
Q80/DA	1.71
Q90/DA	2.26
Qmax/DA	7.92

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

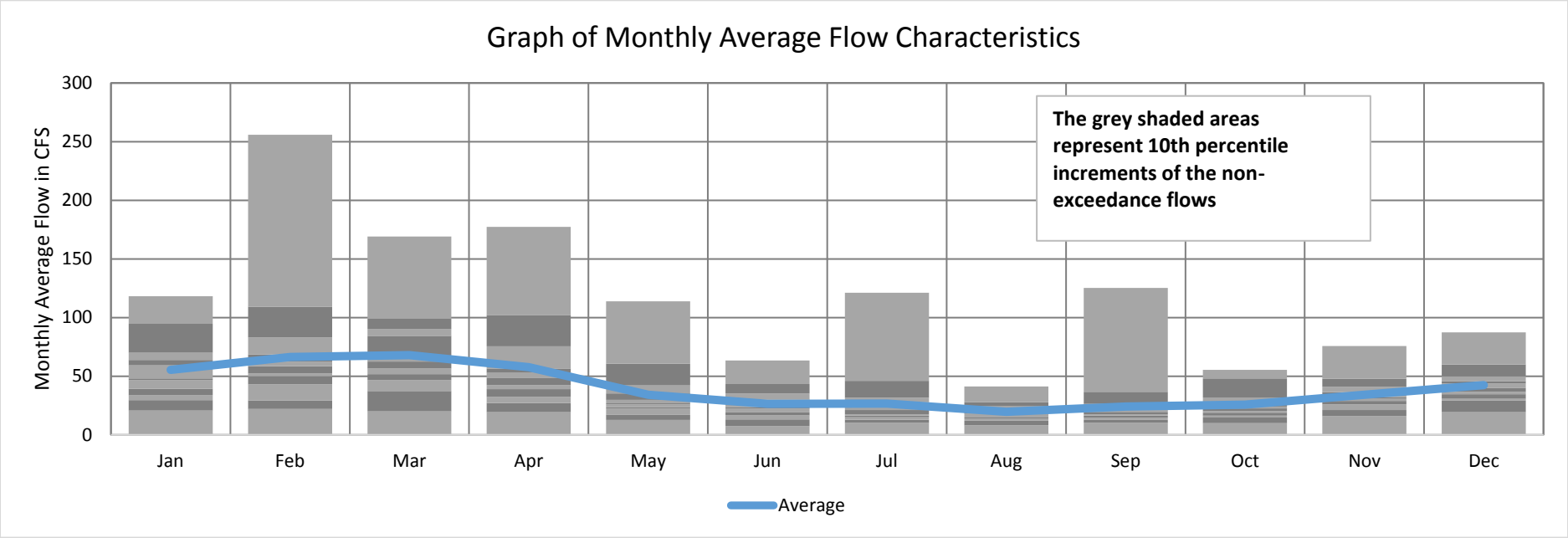
Site #: 02465493 Name: Elliots Creek at Moundville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	55	66	68	58	34	26	27	20	24	26	34	42
100%	118	256	169	177	114	63	121	41	125	55	76	87
98%	111	174	140	172	85	55	80	36	65	55	59	80
95%	102	119	107	121	73	51	52	34	41	52	50	74
90%	95	109	99	102	61	43	46	28	37	48	48	60
75%	65	73	86	65	36	32	30	23	25	29	38	46
50%	48	59	63	48	27	23	21	19	20	23	32	40
25%	35	47	51	38	23	18	16	14	15	18	28	33
10%	30	29	37	27	17	13	13	12	13	15	21	29
5%	27	27	25	22	16	10	12	9.1	12	14	19	28
2%	24	23	23	20	13	9.4	11	8.7	11	12	17	21
0%	21	22	20	19	13	7.4	10	8.1	10	10	16	19

Site #: 02465493 Name: Elliots Creek at Moundville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 32 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	55	66	68	58	34	26	27	20	24	26	34	42
100%	118	256	169	177	114	63	121	41	125	55	76	87
98%	111	174	140	172	85	55	80	36	65	55	59	80
95%	102	119	107	121	73	51	52	34	41	52	50	74
90%	95	109	99	102	61	43	46	28	37	48	48	60
75%	65	73	86	65	36	32	30	23	25	29	38	46
50%	48	59	63	48	27	23	21	19	20	23	32	40
25%	35	47	51	38	23	18	16	14	15	18	28	33
10%	30	29	37	27	17	13	13	12	13	15	21	29
5%	27	27	25	22	16	10	12	9.1	12	14	19	28
2%	24	23	23	20	13	9.4	11	8.7	11	12	17	21
0%	21	22	20	19	13	7.4	10	8.1	10	10	16	19

Monthly Flows (in CFS) for

02466030 - Black Warrior River at Selden Lock at Dam near Eutaw, Ala.

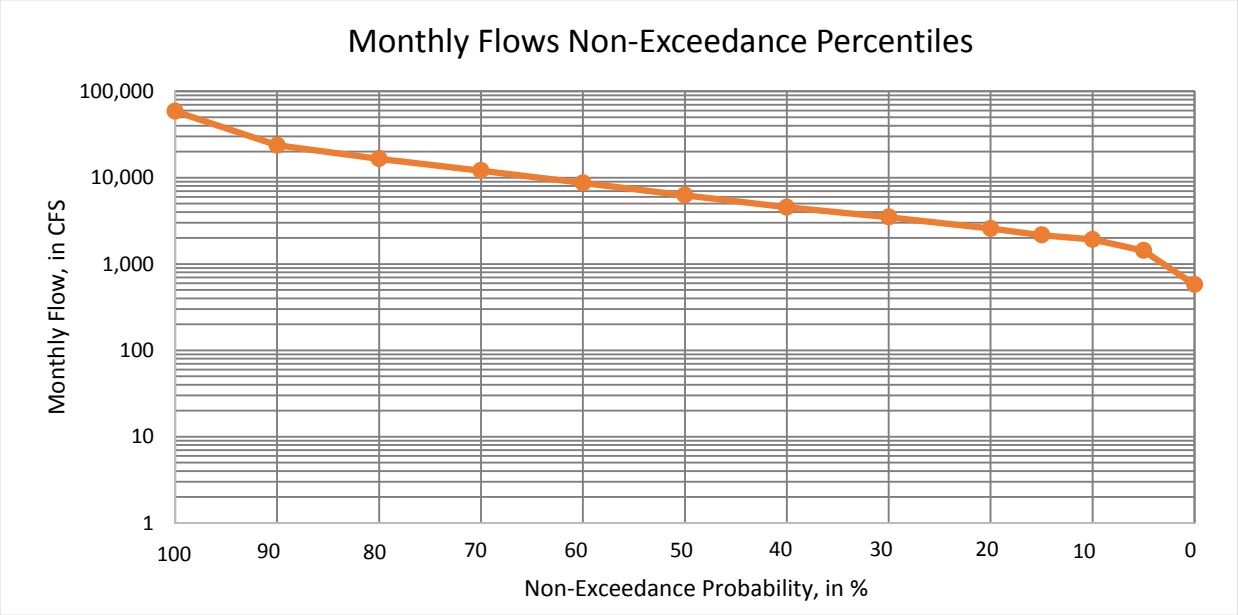
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	25,311	30,037	32,466	14,199	7,773	4,353	6,723	6,627	3,995	12,110	5,900	10,568	13,270
1976	19,196	11,803	34,398	11,621	17,918	5,461	4,287	3,367	3,842	1,924	2,341	8,146	10,397
1977	16,460	9,186	34,640	31,530	3,067	2,552	3,211	3,260	5,105	14,570	15,810	13,690	12,775
1978	16,800	9,378	11,910	3,992	14,270	7,140	2,777	2,962	1,980	1,105	1,100	3,585	6,424
1979	21,730	14,610	30,770	53,430	6,996	4,331	5,681	3,539	7,478	3,802	12,360	8,542	14,383
1980	14,410	12,840	58,420	42,600	15,050	3,810	2,931	2,344	2,677	4,724	5,610	7,204	14,405
1981	3,101	10,460	9,814	14,190	1,842	3,292	2,400	2,084	2,126	1,087	924	3,796	4,539
1982	19,440	19,980	12,500	19,600	6,450	6,248	4,115	3,775	1,714	1,383	2,724	21,870	9,928
1983	13,210	27,650	23,640	30,150	26,220	7,320	3,585	2,475	2,259	1,352	5,189	32,860	14,590
1984	16,820	11,970	12,930	19,130	18,100	4,077	3,192	3,485	1,654	2,033	3,581	8,464	8,779
1985	4,778	20,300	6,571	5,176	8,519	3,333	7,093	6,184	2,713	4,527	4,961	7,114	6,691
1986	4,227	6,589	6,076	1,760	2,429	3,734	2,048	1,928	2,183	2,285	5,832	9,716	4,054
1987	19,890	16,260	27,370	6,409	3,166	4,865	4,319	2,198	2,002	576	956	2,895	7,548
1988	9,009	8,872	4,289	6,619	1,407	1,520	1,964	1,860	4,048	3,761	10,950	7,631	5,123
1989	23,890	15,440	26,440	14,780	5,952	15,220	19,450	4,110	4,954	6,632	10,840	11,540	13,273
1990	28,070	53,820	32,250	8,956	8,306	4,732	3,459	2,567	2,012	1,133	1,510	9,865	12,818
1991	12,730	26,830	20,550	24,630	39,410	7,709	3,898	3,236	2,968	1,566	2,702	9,456	12,898
1992	8,649	13,520	10,240	6,224	1,844	3,350	3,705	4,966	6,518	2,572	13,440	15,810	7,523
1993	28,100	13,780	15,380	10,960	9,476	3,376	2,806	2,985	2,480	1,392	2,095	4,535	8,104
1994	14,950	23,240	23,750	22,320	4,741	4,491	7,079	4,940	4,062	5,730	6,604	15,810	11,403
1995	12,810	17,030	24,680	11,480	5,932	3,925	2,843	2,758	2,079	8,667	14,190	13,720	9,975
1996	26,050	22,790	24,360	12,840	4,907	3,373	5,911	4,062	4,259	2,538	6,006	11,780	10,686
1997	21,810	19,000	19,770	7,273	11,950	24,990	14,070	4,910	3,034	5,144	5,131	8,182	12,071
1998	33,170	27,250	24,200	19,350	5,391	3,495	3,504	3,483	2,348	2,373	2,150	6,795	11,040
1999	21,460	20,630	18,200	8,441	5,762	6,667	5,921	2,282	2,007	1,426	1,527	2,483	8,001
2000	6,075	4,498	22,210	28,840	2,735	2,391	1,854	1,802	1,664	807	3,527	3,750	6,671
2001	10,930	16,750	29,620	21,010	3,533	8,168	3,546	3,336	10,410	6,966	5,259	22,490	11,801
2002	19,250	15,450	10,880	10,030	11,520	3,016	4,210	2,404	4,414	5,395	14,010	17,230	9,792
2003	10,200	23,260	23,380	11,400	33,940	9,812	7,649	5,126	3,150	2,103	3,873	4,882	11,518
2004	8,712	27,180	14,680	4,812	3,466	7,068	6,935	3,329	6,008	2,836	21,180	24,860	10,801
2005	9,855	11,580	12,350	22,420	4,723	15,170	13,010	5,300	4,528	1,957	2,063	6,351	9,067
2006	10,640	20,410	13,810	27,110	9,787	1,928	1,673	2,032	1,963	2,868	6,363	4,197	8,459
2007	12,340	6,854	3,668	2,211	1,063	1,196	2,134	1,561	1,570	732	729	682	2,879
2008	1,231	7,832	9,908	6,322	9,564	2,937	1,999	2,807	1,624	610	698	11,000	4,705
2009	26,500	6,655	31,810	32,210	19,530	6,500	3,346	3,945	17,380	22,070	16,050	26,090	17,760
2010	19,800	24,760	22,310	11,520	15,020	5,191	3,150	2,435	1,226	1,095	1,741	2,673	9,163
2011	8,583	7,678	28,930	24,810	4,764	1,702	2,650	2,057	17,460	1,236	3,000	13,690	9,708
2012	22,500	14,850	14,370	3,733	2,743	2,147	2,383	4,294	4,769	3,067	1,666	10,430	7,229
2013	37,230	30,250	21,300	14,390	17,620	5,194	9,292	7,557	2,244	793	1,797	11,700	13,222
2014	10,780	18,750	11,460	27,660	8,774	6,082	2,157	1,566	1,447	4,039	3,030	12,640	8,946

Non-Exceedance Percentiles

02466030 - Black Warrior River at Selden Lock at Dam near Eutaw, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,231	4,498	3,668	1,760	1,063	1,196	1,673	1,561	1,226	576	698	682	2,879
5th %	4,171	6,652	5,987	3,657	1,820	1,693	1,959	1,790	1,564	726	915	2,664	4,515
10th %	5,945	7,596	9,490	4,730	2,371	2,125	2,043	1,921	1,651	805	1,086	3,516	5,082
15th %	8,639	8,716	10,190	6,067	2,742	2,528	2,154	2,053	1,707	1,094	1,524	3,789	6,634
20th %	8,950	9,340	11,344	6,392	3,146	3,000	2,397	2,175	1,977	1,127	1,726	4,467	7,122
30th %	10,738	11,920	12,801	8,802	4,736	3,366	2,832	2,426	2,059	1,389	2,134	7,018	8,073
40th %	12,778	14,278	15,100	11,448	5,614	3,780	3,203	2,787	2,253	1,944	2,890	8,168	9,019
Median	15,705	15,855	20,925	13,515	6,723	4,342	3,525	3,248	2,695	2,329	3,727	9,586	9,860
60th %	19,218	18,850	23,484	16,520	8,621	4,995	3,985	3,413	3,427	2,849	5,217	10,741	10,732
70th %	20,361	20,476	24,456	21,403	10,307	6,132	4,728	3,826	4,121	3,873	5,932	12,038	11,603
80th %	22,778	23,560	29,068	25,270	15,026	7,082	6,766	4,417	4,806	5,194	10,862	14,138	12,834
90th %	26,657	27,290	32,272	30,288	18,243	8,332	7,813	5,143	6,614	7,136	14,028	21,932	13,384
Maximum	37,230	53,820	58,420	53,430	39,410	24,990	19,450	7,557	17,460	22,070	21,180	32,860	17,760
Average	16,267	17,501	20,407	16,403	9,641	5,547	4,824	3,398	4,009	3,775	5,735	10,718	9,810

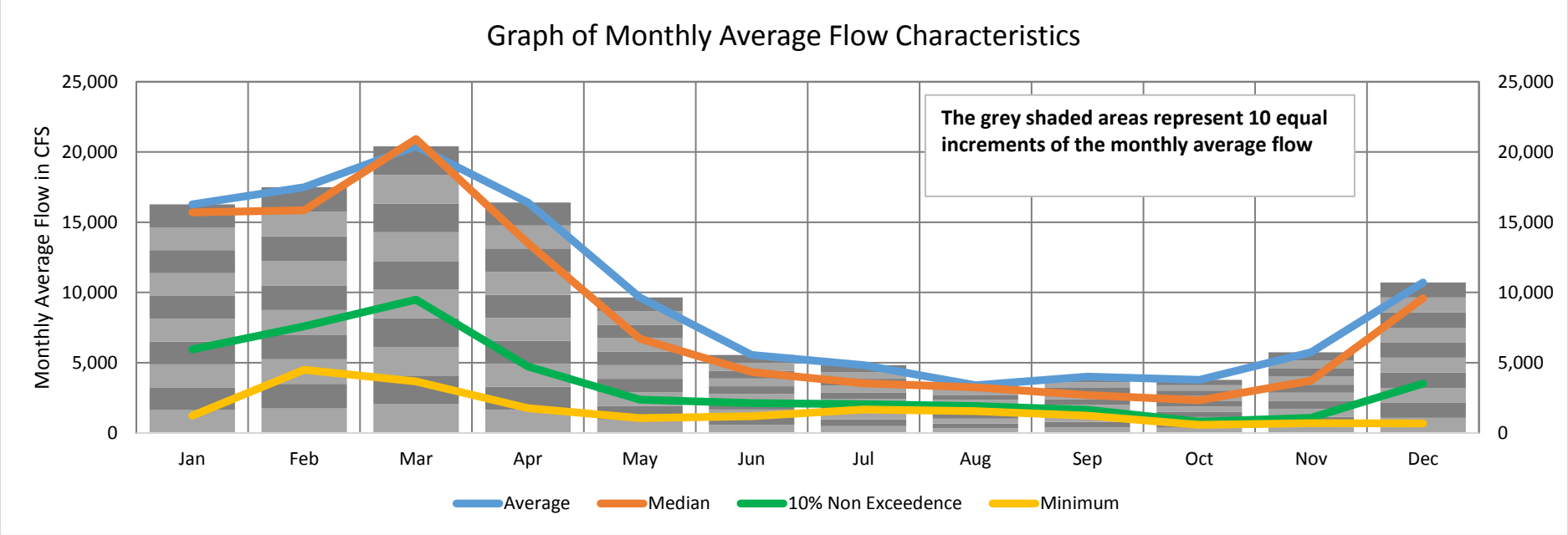
	Flows in CFS
Minimum	576.2
5th %	1,425
10th %	1,918
15th %	2,156
20th %	2,571
30th %	3,484
40th %	4,528
Median	6,236
60th %	8,656
70th %	12,012
80th %	16,518
90th %	23,651
Maximum	58,420
Average	9,852



Q10/Q50	0.31
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.10
Q5/DA	0.25
Q10/DA	0.33
Q15/DA	0.37
Q20/DA	0.44
Q30/DA	0.60
Q40/DA	0.78
Q50/DA	1.07
Q60/DA	1.49
Q70/DA	2.07
Q80/DA	2.84
Q90/DA	4.07
Qmax/DA	10.06

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

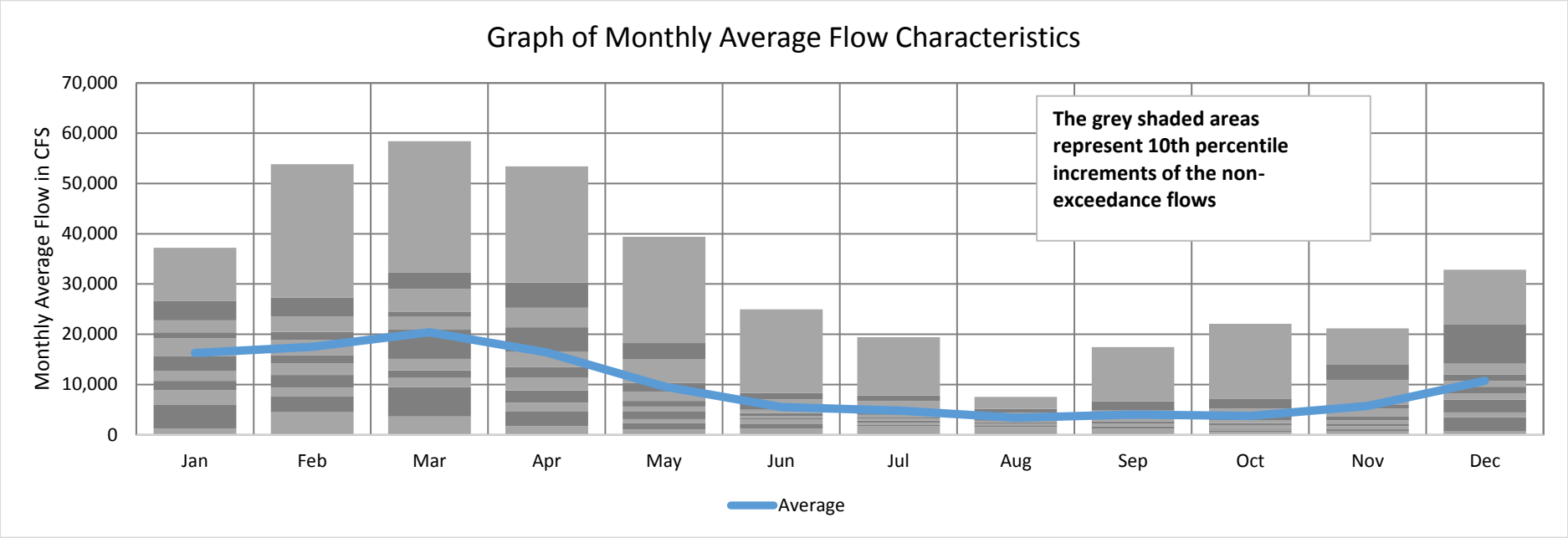
Site #: 02466030 Name: Black Warrior River at Selden Lock at Dam near Eutaw, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	16,267	17,501	20,407	16,403	9,641	5,547	4,824	3,398	4,009	3,775	5,735	10,718
100%	37,230	53,820	58,420	53,430	39,410	24,990	19,450	7,557	17,460	22,070	21,180	32,860
98%	34,063	35,435	39,872	44,983	35,143	17,369	15,254	6,832	17,398	16,220	17,179	27,579
95%	28,354	30,048	34,410	32,730	26,606	15,173	13,063	6,206	10,759	12,233	15,822	24,922
90%	26,657	27,290	32,272	30,288	18,243	8,332	7,813	5,143	6,614	7,136	14,028	21,932
75%	21,750	22,903	26,673	22,973	12,530	6,542	5,914	4,074	4,443	4,576	6,423	13,690
50%	15,705	15,855	20,925	13,515	6,723	4,342	3,525	3,248	2,695	2,329	3,727	9,586
25%	10,114	11,300	12,240	7,110	3,516	3,323	2,745	2,329	2,006	1,323	1,997	5,984
10%	5,945	7,596	9,490	4,730	2,371	2,125	2,043	1,921	1,651	805	1,086	3,516
5%	4,171	6,652	5,987	3,657	1,820	1,693	1,959	1,790	1,564	726	915	2,664
2%	2,690	6,129	4,152	2,112	1,331	1,449	1,814	1,565	1,398	602	722	2,087
0%	1,231	4,498	3,668	1,760	1,063	1,196	1,673	1,561	1,226	576	698	682

Site #: 02466030 Name: Black Warrior River at Selden Lock at Dam near Eutaw, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,810 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	16,267	17,501	20,407	16,403	9,641	5,547	4,824	3,398	4,009	3,775	5,735	10,718
100%	37,230	53,820	58,420	53,430	39,410	24,990	19,450	7,557	17,460	22,070	21,180	32,860
98%	34,063	35,435	39,872	44,983	35,143	17,369	15,254	6,832	17,398	16,220	17,179	27,579
95%	28,354	30,048	34,410	32,730	26,606	15,173	13,063	6,206	10,759	12,233	15,822	24,922
90%	26,657	27,290	32,272	30,288	18,243	8,332	7,813	5,143	6,614	7,136	14,028	21,932
75%	21,750	22,903	26,673	22,973	12,530	6,542	5,914	4,074	4,443	4,576	6,423	13,690
50%	15,705	15,855	20,925	13,515	6,723	4,342	3,525	3,248	2,695	2,329	3,727	9,586
25%	10,114	11,300	12,240	7,110	3,516	3,323	2,745	2,329	2,006	1,323	1,997	5,984
10%	5,945	7,596	9,490	4,730	2,371	2,125	2,043	1,921	1,651	805	1,086	3,516
5%	4,171	6,652	5,987	3,657	1,820	1,693	1,959	1,790	1,564	726	915	2,664
2%	2,690	6,129	4,152	2,112	1,331	1,449	1,814	1,565	1,398	602	722	2,087
0%	1,231	4,498	3,668	1,760	1,063	1,196	1,673	1,561	1,226	576	698	682

Monthly Flows (in CFS) for

02467000 - Tombigbee River at Demopolis Lock and Dam near Coatopa, Ala.

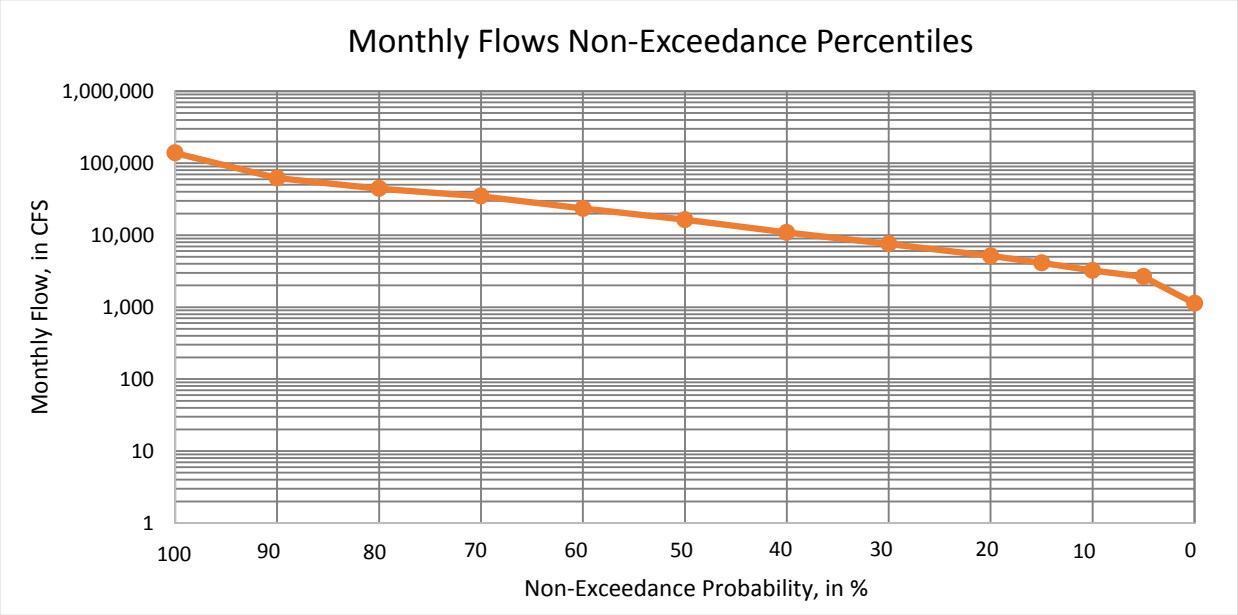
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	77,710	69,490	84,040	53,010	24,030	14,100	12,660	19,050	8,353	32,570	14,460	25,080	36,090
1976	46,210	38,530	79,740	55,650	39,950	12,530	7,261	5,292	7,532	3,707	5,216	20,430	26,814
1977	42,510	19,630	93,350	75,690	7,524	4,291	5,007	4,473	9,717	28,760	35,640	39,390	30,579
1978	39,680	22,450	36,410	10,460	47,610	17,940	4,561	3,631	2,372	1,502	2,057	8,789	16,496
1979	64,850	42,970	73,440	125,700	21,910	13,500	17,990	6,817	29,840	8,481	34,110	30,950	39,055
1980	45,440	37,000	117,200	118,900	41,290	9,621	5,006	3,659	3,799	9,239	14,240	14,340	34,943
1981	6,478	26,050	24,890	36,910	5,919	8,099	3,591	2,832	3,279	2,144	1,949	8,156	10,715
1982	54,730	48,380	32,570	58,460	15,280	10,930	8,382	9,123	3,048	3,544	7,061	83,230	27,814
1983	55,350	95,760	84,210	112,700	77,840	24,820	9,846	3,797	4,141	2,864	16,820	90,530	47,927
1984	51,170	32,760	39,540	52,140	59,250	6,195	4,991	6,042	1,824	10,050	12,510	22,410	24,916
1985	14,140	67,430	18,110	16,970	27,420	7,797	10,720	11,680	4,707	12,000	11,900	17,080	18,013
1986	8,886	17,160	21,200	4,772	7,212	13,450	3,269	2,957	3,251	5,196	26,970	34,080	12,330
1987	47,600	46,580	67,850	14,150	7,505	9,638	6,994	3,182	3,060	1,163	2,723	7,113	18,014
1988	20,560	23,360	12,810	21,560	3,714	2,133	4,180	2,644	7,551	10,090	21,470	17,460	12,194
1989	73,650	48,290	73,600	38,210	22,360	45,030	47,250	7,288	7,692	15,970	25,970	24,900	35,821
1990	84,000	133,200	69,320	20,270	20,940	12,220	5,431	3,220	2,456	1,804	3,035	43,650	32,735
1991	34,820	71,590	63,370	86,570	138,300	42,380	7,940	5,615	5,456	3,154	6,857	40,610	42,056
1992	21,350	34,300	28,240	16,570	3,911	8,873	6,941	11,600	13,220	4,421	35,800	38,240	18,493
1993	64,540	38,100	35,100	35,750	27,950	6,814	5,195	7,473	4,577	3,227	7,894	14,470	20,862
1994	30,770	53,930	59,750	56,000	9,472	15,860	26,910	8,495	7,097	13,000	14,100	39,210	27,719
1995	35,390	43,230	75,400	43,030	15,560	7,717	5,388	6,895	2,888	13,190	25,860	37,230	25,907
1996	57,110	54,280	55,590	40,730	9,736	7,663	10,540	8,469	8,617	5,583	15,630	39,060	25,939
1997	59,430	53,870	54,940	21,660	37,710	66,540	26,510	9,540	5,075	9,851	12,030	26,240	31,831
1998	85,640	62,100	59,400	38,430	13,280	6,939	10,610	9,753	3,593	4,055	4,874	23,620	26,715
1999	63,430	60,550	50,050	25,660	16,220	14,150	14,100	2,789	2,431	2,421	3,044	5,262	21,470
2000	12,950	10,600	34,890	73,740	5,174	3,909	2,350	2,084	1,622	1,127	8,355	12,360	14,040
2001	34,710	50,060	72,850	45,790	7,401	22,140	5,654	5,776	20,380	20,150	10,390	62,580	29,714
2002	53,270	40,940	37,740	29,740	32,080	5,008	7,855	3,905	12,420	21,610	37,780	47,740	27,466
2003	24,650	74,920	63,400	45,110	75,900	29,870	19,350	18,460	8,795	6,759	16,530	20,480	33,441
2004	29,120	86,210	44,250	15,260	10,320	24,580	23,040	7,476	11,350	11,110	48,100	77,430	31,994
2005	29,250	39,180	32,820	57,640	10,860	40,340	31,870	10,610	19,420	4,577	5,446	20,030	24,994
2006	40,860	64,150	40,940	19,590	20,590	3,784	2,717	2,774	3,416	10,840	19,330	11,500	19,772
2007	42,310	19,710	11,490	6,106	2,320	1,830	4,118	2,226	2,706	2,543	2,291	3,231	8,371
2008	6,100	30,750	27,910	21,420	24,190	6,860	2,787	6,860	4,462	3,061	2,687	47,120	15,295
2009	58,890	14,390	83,310	42,910	48,770	11,650	4,471	7,000	40,440	60,060	34,790	60,330	39,190
2010	49,200	53,750	48,260	24,030	38,530	11,130	5,159	3,555	1,706	1,781	3,797	8,134	20,597
2011	23,320	18,680	63,910	64,170	17,080	3,693	4,279	3,503	20,370	2,231	5,010	29,740	21,332
2012	45,350	37,660	43,790	12,360	7,239	3,096	5,131	6,765	11,440	9,496	4,344	29,330	17,950
2013	78,760	66,540	49,100	43,880	38,070	11,590	18,110	12,840	4,998	2,681	6,413	29,520	30,058
2014	25,140	48,700	32,470	75,490	23,420	19,570	7,044	3,280	2,872	9,426	9,166	32,660	23,872

Non-Exceedance Percentiles

02467000 - Tombigbee River at Demopolis Lock and Dam near Coatopa, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	6,100	10,600	11,490	4,772	2,320	1,830	2,350	2,084	1,622	1,127	1,949	3,231	8,371
5th %	8,766	17,022	17,845	10,242	3,901	3,048	2,784	2,623	1,818	1,485	2,279	7,020	12,120
10th %	14,021	19,535	24,521	13,971	5,845	3,775	3,559	2,788	2,425	1,802	2,719	8,154	13,869
15th %	21,232	22,039	28,191	16,374	7,235	4,234	4,171	2,938	2,669	2,218	3,043	11,093	16,316
20th %	24,384	25,512	32,550	19,066	7,484	5,958	4,433	3,212	2,885	2,519	4,235	13,944	18,001
30th %	30,314	36,190	36,017	21,630	10,145	7,446	5,007	3,608	3,271	3,126	5,377	19,259	20,350
40th %	37,964	38,920	42,650	33,346	15,448	8,563	5,311	4,246	4,004	3,916	7,561	23,136	22,911
Median	43,930	44,905	49,575	39,580	20,765	11,030	6,968	5,909	4,853	5,390	11,145	27,785	25,923
60th %	48,240	49,244	59,540	44,372	23,664	12,344	7,889	6,874	7,271	9,314	14,156	31,634	27,567
70th %	54,916	54,035	65,092	53,802	29,189	14,115	10,561	7,474	8,432	10,062	16,617	38,486	30,214
80th %	60,230	64,628	73,472	59,602	38,814	20,084	14,878	9,206	11,368	12,200	25,882	41,218	32,876
90th %	74,056	71,923	83,383	76,778	49,818	30,917	23,387	11,608	19,515	20,296	34,875	60,555	36,386
Maximum	85,640	133,200	117,200	125,700	138,300	66,540	47,250	19,050	40,440	60,060	48,100	90,530	47,927
Average	43,483	47,431	52,431	43,930	26,596	14,707	10,380	6,586	8,049	9,386	14,416	31,093	25,588

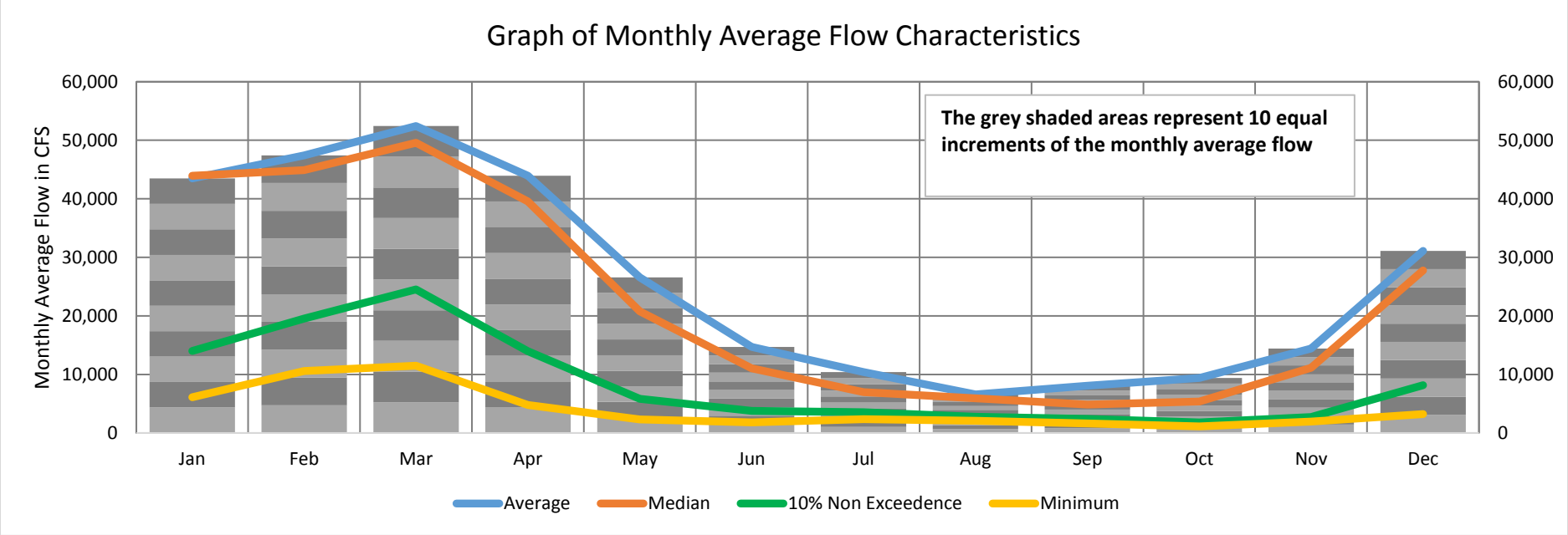
	Flows in CFS
Minimum	1,127.0
5th %	2,639
10th %	3,231
15th %	4,109
20th %	5,153
30th %	7,545
40th %	10,902
Median	16,375
60th %	23,500
70th %	34,799
80th %	44,406
90th %	62,148
Maximum	138,300
Average	25,707



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.07
Q5/DA	0.17
Q10/DA	0.21
Q15/DA	0.27
Q20/DA	0.33
Q30/DA	0.49
Q40/DA	0.71
Q50/DA	1.06
Q60/DA	1.53
Q70/DA	2.26
Q80/DA	2.89
Q90/DA	4.04
Qmax/DA	8.99

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

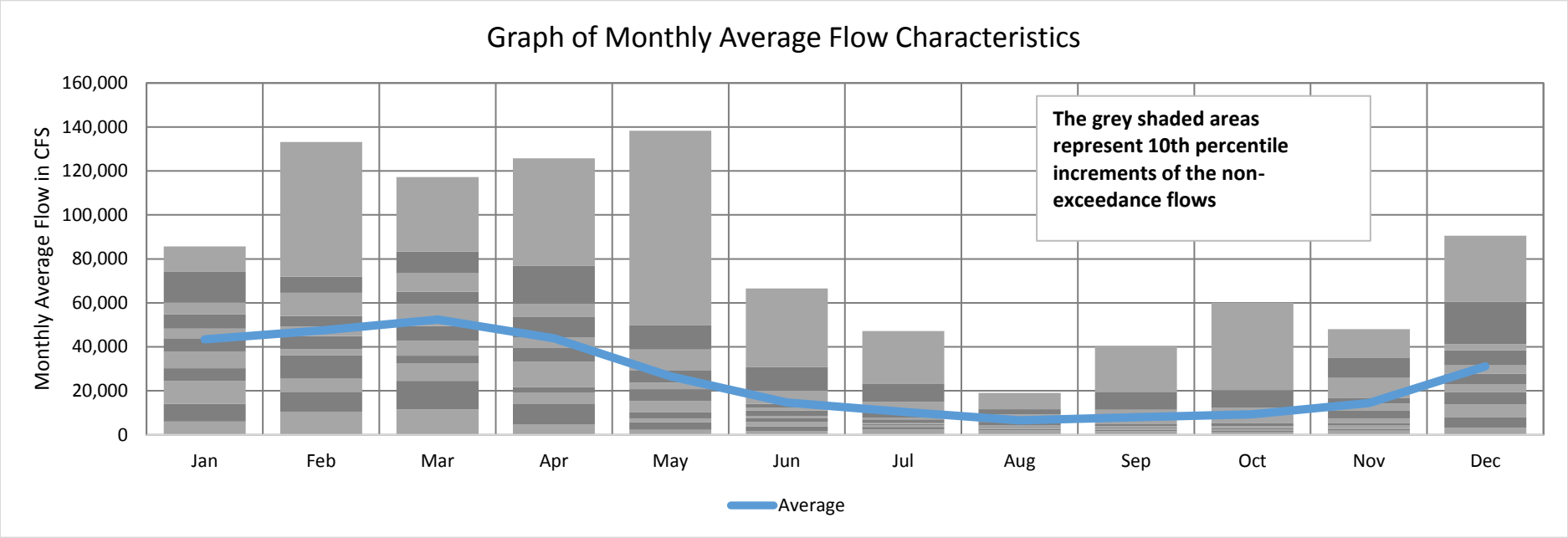
Site #: 02467000 Name: Tombigbee River at Demopolis Lock and Dam near Coatopa, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	43,483	47,431	52,431	43,930	26,596	14,707	10,380	6,586	8,049	9,386	14,416	31,093
100%	85,640	133,200	117,200	125,700	138,300	66,540	47,250	19,050	40,440	60,060	48,100	90,530
98%	84,361	103,997	98,597	120,396	91,141	49,762	35,254	18,590	32,172	38,618	40,050	84,836
95%	79,022	86,688	84,667	113,010	75,997	42,513	27,158	13,121	20,853	28,951	35,899	77,720
90%	74,056	71,923	83,383	76,778	49,818	30,917	23,387	11,608	19,515	20,296	34,875	60,555
75%	57,555	60,938	70,203	56,410	37,800	16,380	11,205	8,476	9,026	10,908	19,865	39,255
50%	43,930	44,905	49,575	39,580	20,765	11,030	6,968	5,909	4,853	5,390	11,145	27,785
25%	28,125	32,258	34,373	21,133	8,985	6,849	4,884	3,447	3,057	2,818	4,976	16,428
10%	14,021	19,535	24,521	13,971	5,845	3,775	3,559	2,788	2,425	1,802	2,719	8,154
5%	8,766	17,022	17,845	10,242	3,901	3,048	2,784	2,623	1,818	1,485	2,279	7,020
2%	6,395	13,556	12,520	5,813	3,407	2,066	2,636	2,195	1,688	1,155	2,033	4,815
0%	6,100	10,600	11,490	4,772	2,320	1,830	2,350	2,084	1,622	1,127	1,949	3,231

Site #: 02467000 Name: Tombigbee River at Demopolis Lock and Dam near Coatopa, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 15,385 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	43,483	47,431	52,431	43,930	26,596	14,707	10,380	6,586	8,049	9,386	14,416	31,093
100%	85,640	133,200	117,200	125,700	138,300	66,540	47,250	19,050	40,440	60,060	48,100	90,530
98%	84,361	103,997	98,597	120,396	91,141	49,762	35,254	18,590	32,172	38,618	40,050	84,836
95%	79,022	86,688	84,667	113,010	75,997	42,513	27,158	13,121	20,853	28,951	35,899	77,720
90%	74,056	71,923	83,383	76,778	49,818	30,917	23,387	11,608	19,515	20,296	34,875	60,555
75%	57,555	60,938	70,203	56,410	37,800	16,380	11,205	8,476	9,026	10,908	19,865	39,255
50%	43,930	44,905	49,575	39,580	20,765	11,030	6,968	5,909	4,853	5,390	11,145	27,785
25%	28,125	32,258	34,373	21,133	8,985	6,849	4,884	3,447	3,057	2,818	4,976	16,428
10%	14,021	19,535	24,521	13,971	5,845	3,775	3,559	2,788	2,425	1,802	2,719	8,154
5%	8,766	17,022	17,845	10,242	3,901	3,048	2,784	2,623	1,818	1,485	2,279	7,020
2%	6,395	13,556	12,520	5,813	3,407	2,066	2,636	2,195	1,688	1,155	2,033	4,815
0%	6,100	10,600	11,490	4,772	2,320	1,830	2,350	2,084	1,622	1,127	1,949	3,231

Monthly Flows (in CFS) for

02467500 - Sucarnoochee River at Livingston, Ala.

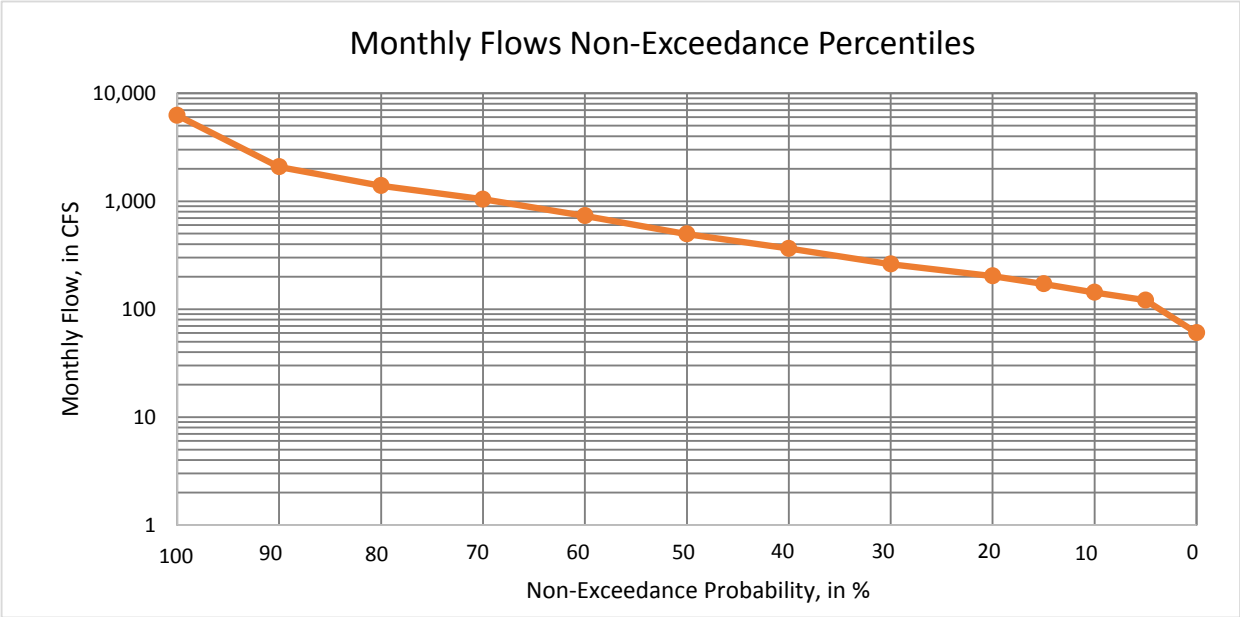
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,625	2,683	1,976	2,227	1,351	721	371	914	300	840	357	827	1,258
1976	1,081	625	4,055	1,829	670	345	260	185	221	147	210	1,278	914
1977	3,612	1,319	3,915	2,840	470	205	249	288	425	826	1,577	1,139	1,408
1978	1,630	972	1,167	633	1,658	473	229	160	134	118	148	349	640
1979	1,901	2,081	3,078	6,244	665	359	825	322	1,391	265	1,613	818	1,618
1980	1,981	1,361	4,376	4,157	2,081	571	421	232	174	406	641	431	1,403
1981	340	858	1,343	2,321	302	362	139	133	140	218	208	449	563
1982	1,270	1,911	1,227	1,190	335	172	256	377	125	148	300	2,530	815
1983	1,757	4,068	3,960	4,288	2,848	1,246	700	238	273	213	525	1,313	1,769
1984	1,126	1,068	1,493	1,666	799	202	317	268	143	301	408	796	714
1985	389	2,558	788	521	357	173	189	225	136	695	503	544	576
1986	368	478	725	218	534	237	129	110	198	163	958	1,032	429
1987	2,410	2,268	2,331	568	441	507	246	170	136	97	162	239	791
1988	396	669	473	1,014	184	90	221	104	267	481	1,017	622	458
1989	1,394	823	2,106	1,267	1,436	1,487	1,608	298	226	594	1,136	1,285	1,142
1990	3,834	5,406	2,154	956	457	306	291	189	121	131	206	339	1,173
1991	533	2,084	1,489	2,472	4,968	888	370	259	276	211	493	691	1,223
1992	888	1,575	586	915	247	461	187	509	180	141	995	1,122	643
1993	2,900	1,352	1,474	1,273	839	365	272	355	182	198	836	529	880
1994	1,601	2,425	2,088	1,259	308	360	950	254	218	394	261	1,010	919
1995	770	1,451	2,758	1,800	498	394	188	238	149	452	675	1,156	874
1996	1,712	1,809	2,037	1,049	340	386	203	272	229	204	276	464	742
1997	1,200	2,131	2,797	1,504	1,144	1,608	907	341	172	223	407	1,153	1,126
1998	4,411	1,647	1,739	1,392	325	241	449	248	141	128	187	392	941
1999	1,145	2,168	1,617	483	219	166	140	107	103	179	133	234	548
2000	301	223	421	1,066	139	116	76	69	60	67	161	346	253
2001	906	825	2,270	1,176	221	554	139	159	818	1,020	554	2,150	901
2002	1,654	1,285	1,110	541	197	158	172	110	638	821	680	1,826	764
2003	855	2,605	1,510	5,406	1,387	833	1,394	743	323	423	664	655	1,386
2004	1,041	3,463	1,111	445	507	674	1,066	231	282	499	1,737	1,337	1,016
2005	821	1,898	1,215	2,568	458	1,720	1,459	412	965	281	268	445	1,032
2006	907	1,630	1,559	493	729	167	134	125	93	305	319	363	563
2007	956	607	267	204	123	102	227	87	97	114	120	182	256
2008	239	1,359	850	613	634	182	117	492	223	164	134	1,034	499
2009	997	435	1,941	1,158	781	195	120	154	711	694	668	1,565	789
2010	1,500	1,878	2,296	539	524	248	163	143	88	102	174	226	651
2011	494	674	2,083	766	253	121	146	166	462	118	146	507	494
2012	1,092	1,285	1,625	275	276	166	456	432	286	206	155	1,333	631
2013	2,219	3,064	1,435	1,239	1,104	483	446	366	209	176	471	1,280	1,029
2014	739	1,802	1,251	3,943	737	308	230	150	128	134	241	951	874

Non-Exceedance Percentiles

02467500 - Sucarnoochee River at Livingston, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	239	223	267	204	123	90	76	69	60	67	120	182	253
5th %	338	476	470	272	182	116	120	104	93	102	134	233	421
10th %	387	623	711	479	216	154	133	109	103	118	148	329	491
15th %	479	673	840	517	243	166	139	123	125	127	160	348	541
20th %	698	824	1,111	541	271	171	144	141	133	134	172	386	563
30th %	878	1,220	1,244	726	332	200	187	160	141	158	209	460	642
40th %	980	1,356	1,483	1,035	450	245	225	188	173	190	273	591	756
Median	1,109	1,603	1,588	1,183	503	352	247	235	204	212	382	807	845
60th %	1,320	1,837	1,955	1,269	646	373	280	256	224	272	497	1,019	906
70th %	1,637	2,082	2,093	1,706	750	476	386	291	274	397	648	1,143	1,020
80th %	1,917	2,299	2,303	2,351	1,112	592	505	357	304	484	711	1,281	1,148
90th %	2,653	2,721	3,162	3,964	1,458	923	962	438	645	708	1,029	1,360	1,387
Maximum	4,411	5,406	4,376	6,244	4,968	1,720	1,608	914	1,391	1,020	1,737	2,530	1,769
Average	1,400	1,721	1,817	1,613	789	459	412	266	286	322	518	873	868

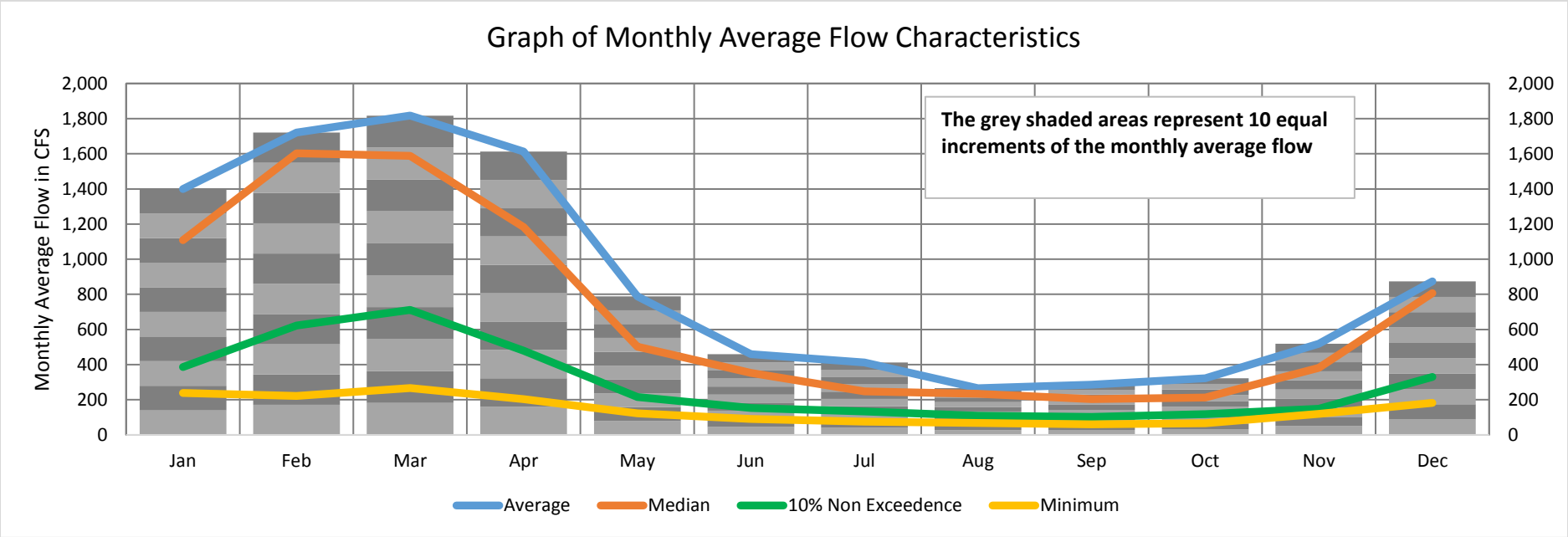
	Flows in CFS
Minimum	60.3
5th %	121
10th %	143
15th %	171
20th %	203
30th %	261
40th %	364
Median	496
60th %	732
70th %	1,043
80th %	1,392
90th %	2,081
Maximum	6,244
Average	873



Q10/Q50	0.29
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.10
Q5/DA	0.20
Q10/DA	0.23
Q15/DA	0.28
Q20/DA	0.33
Q30/DA	0.43
Q40/DA	0.60
Q50/DA	0.82
Q60/DA	1.21
Q70/DA	1.72
Q80/DA	2.29
Q90/DA	3.43
Qmax/DA	10.29

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

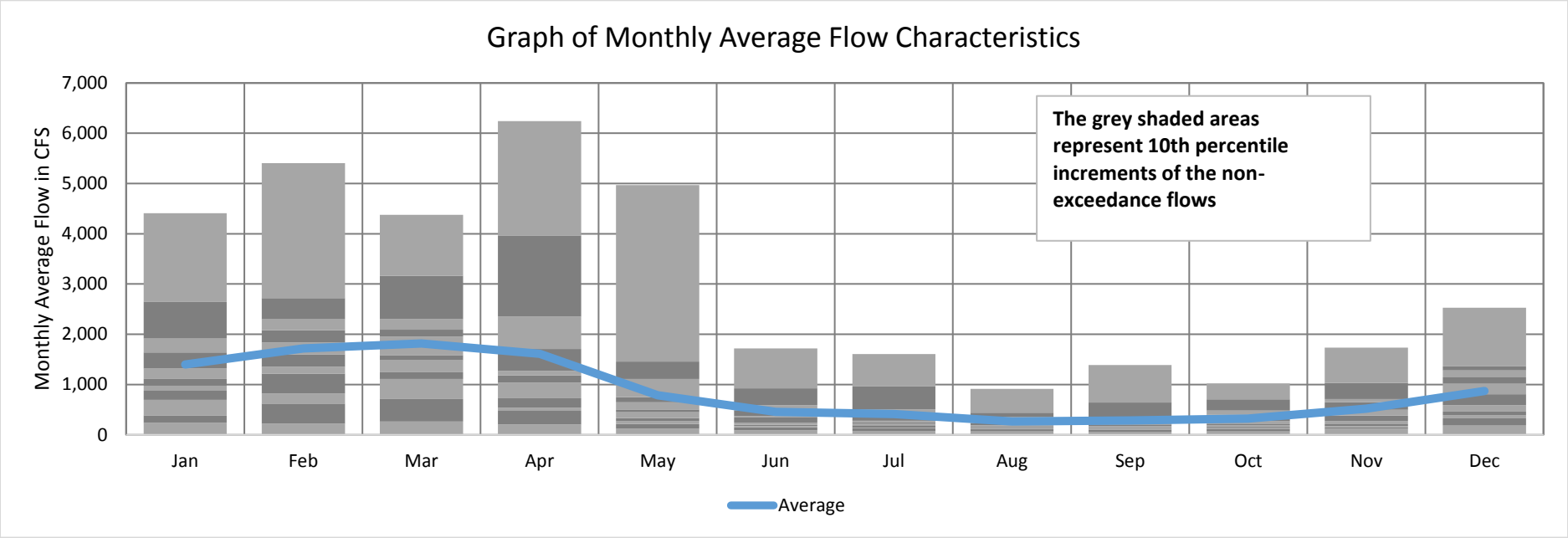
Site #: 02467500 Name: Sucarnoochee River at Livingston, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,400	1,721	1,817	1,613	789	459	412	266	286	322	518	873
100%	4,411	5,406	4,376	6,244	4,968	1,720	1,608	914	1,391	1,020	1,737	2,530
98%	3,961	4,362	4,126	5,590	3,314	1,633	1,492	781	1,059	880	1,640	2,234
95%	3,623	3,493	3,965	4,344	2,119	1,493	1,397	521	826	827	1,579	1,842
90%	2,653	2,721	3,162	3,964	1,458	923	962	438	645	708	1,029	1,360
75%	1,723	2,140	2,183	1,929	809	519	447	327	283	430	670	1,187
50%	1,109	1,603	1,588	1,183	503	352	247	235	204	212	382	807
25%	808	943	1,203	601	307	180	169	153	136	146	202	442
10%	387	623	711	479	216	154	133	109	103	118	148	329
5%	338	476	470	272	182	116	120	104	93	102	134	233
2%	287	389	387	215	135	99	108	83	82	90	130	216
0%	239	223	267	204	123	90	76	69	60	67	120	182

Site #: 02467500 Name: Sucarnoochee River at Livingston, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 607 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,400	1,721	1,817	1,613	789	459	412	266	286	322	518	873
100%	4,411	5,406	4,376	6,244	4,968	1,720	1,608	914	1,391	1,020	1,737	2,530
98%	3,961	4,362	4,126	5,590	3,314	1,633	1,492	781	1,059	880	1,640	2,234
95%	3,623	3,493	3,965	4,344	2,119	1,493	1,397	521	826	827	1,579	1,842
90%	2,653	2,721	3,162	3,964	1,458	923	962	438	645	708	1,029	1,360
75%	1,723	2,140	2,183	1,929	809	519	447	327	283	430	670	1,187
50%	1,109	1,603	1,588	1,183	503	352	247	235	204	212	382	807
25%	808	943	1,203	601	307	180	169	153	136	146	202	442
10%	387	623	711	479	216	154	133	109	103	118	148	329
5%	338	476	470	272	182	116	120	104	93	102	134	233
2%	287	389	387	215	135	99	108	83	82	90	130	216
0%	239	223	267	204	123	90	76	69	60	67	120	182

Monthly Flows (in CFS) for
02468000 - Alamuchee Creek near Cuba, Ala.

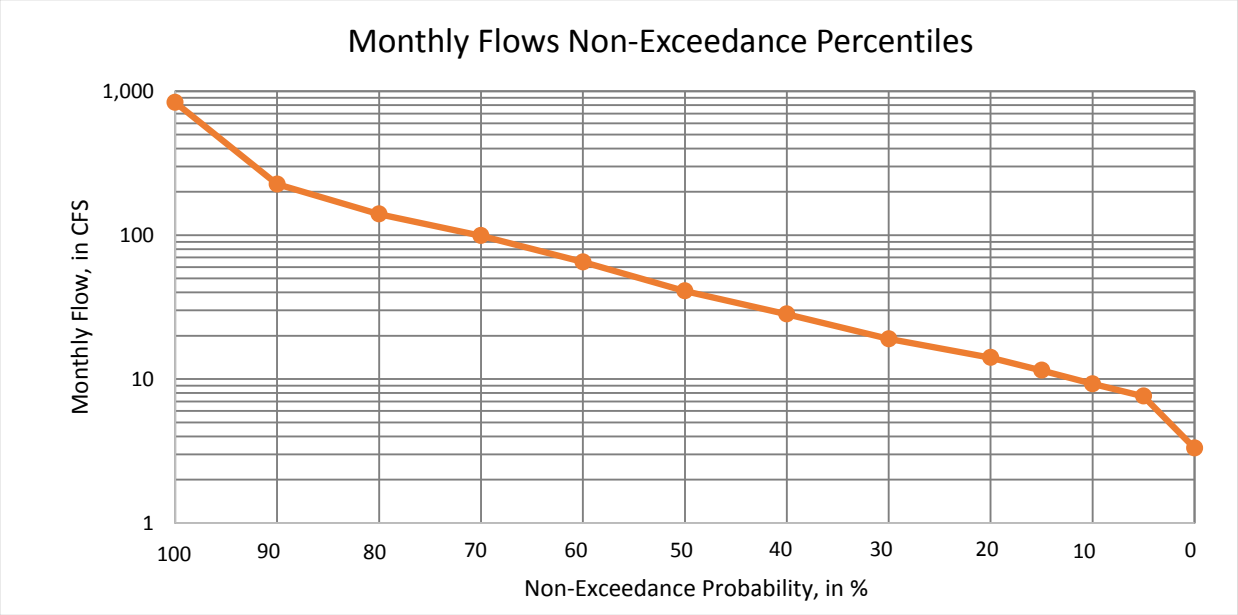
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	298	306	212	245	135	64	29	85	22	77	28	75	130
1976	103	54	500	194	59	27	19	13	16	10	15	126	95
1977	436	131	480	327	38	14	18	21	34	75	162	110	154
1978	169	91	113	55	172	39	16	11	9	7	10	27	60
1979	203	226	360	836	58	28	75	24	140	19	167	74	183
1980	213	136	548	515	226	48	34	17	12	32	55	35	156
1981	26	79	134	257	23	28	9	8	9	15	15	36	53
1982	125	204	120	116	26	12	19	29	8	10	22	285	81
1983	185	502	486	534	328	123	62	17	20	15	44	130	202
1984	109	102	152	173	72	14	24	20	9	23	32	72	67
1985	31	289	71	43	28	12	13	16	9	61	42	46	53
1986	29	39	64	15	45	17	8	7	14	11	90	98	36
1987	269	250	258	48	36	42	18	11	9	6	11	17	80
1988	31	58	39	96	13	5	16	6	20	39	96	53	39
1989	140	75	229	125	145	151	166	22	16	51	110	127	114
1990	468	704	235	89	37	23	22	13	8	8	14	26	134
1991	44	226	152	277	637	82	29	19	20	15	41	61	133
1992	82	162	50	85	18	37	13	42	12	9	94	108	59
1993	335	135	150	126	76	28	20	27	12	14	76	44	87
1994	165	271	227	124	23	28	89	18	15	31	19	95	91
1995	69	147	316	190	41	31	13	17	10	37	59	112	86
1996	179	191	220	100	26	30	14	20	16	14	20	38	72
1997	117	232	321	153	111	166	84	26	12	16	32	112	114
1998	553	171	182	140	25	17	36	18	9	8	13	31	100
1999	111	237	167	40	15	11	9	7	6	12	9	17	52
2000	22	16	34	102	9	7	4	4	3	4	11	27	20
2001	84	75	250	114	16	47	9	11	74	97	47	235	88
2002	172	127	107	45	14	10	12	7	55	75	60	193	73
2003	78	295	154	704	139	76	140	66	25	34	58	57	150
2004	99	414	107	36	42	59	102	16	21	41	182	133	102
2005	74	202	119	290	37	180	148	33	90	21	20	36	103
2006	84	169	160	41	65	11	9	8	6	23	24	28	52
2007	89	52	20	14	8	6	16	5	6	7	8	12	20
2008	17	136	78	53	55	12	7	40	16	11	9	98	44
2009	94	35	208	112	70	13	8	10	63	61	58	161	75
2010	153	200	254	45	44	18	11	9	5	6	12	16	64
2011	41	59	226	69	18	8	9	11	38	7	9	42	45
2012	105	127	168	20	20	11	37	35	21	14	10	133	58
2013	244	358	145	122	106	40	36	28	15	12	38	127	104
2014	66	190	123	484	65	23	16	10	8	9	17	89	90

Non-Exceedance Percentiles

02468000 - Alamuchee Creek near Cuba, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	17	16	20	14	8	5	4	4	3	4	8	12	20
5th %	26	39	38	20	12	7	8	6	6	6	9	17	36
10th %	30	54	63	39	15	10	9	7	6	7	10	25	43
15th %	39	59	77	43	18	11	9	8	8	8	11	27	51
20th %	62	75	107	45	20	12	9	9	9	9	12	30	53
30th %	81	120	122	64	25	14	13	11	9	10	15	37	60
40th %	92	136	151	98	36	18	16	13	12	13	20	50	72
Median	107	165	164	115	42	27	18	17	14	15	30	73	84
60th %	131	195	210	125	56	29	21	19	16	20	41	96	91
70th %	170	226	227	178	67	39	30	22	20	31	56	111	102
80th %	205	254	255	261	107	50	42	28	23	40	63	127	118
90th %	302	311	372	487	148	86	90	35	56	62	98	136	151
Maximum	553	704	548	836	637	180	166	85	140	97	182	285	202
Average	148	187	198	179	78	40	35	20	23	26	46	84	88

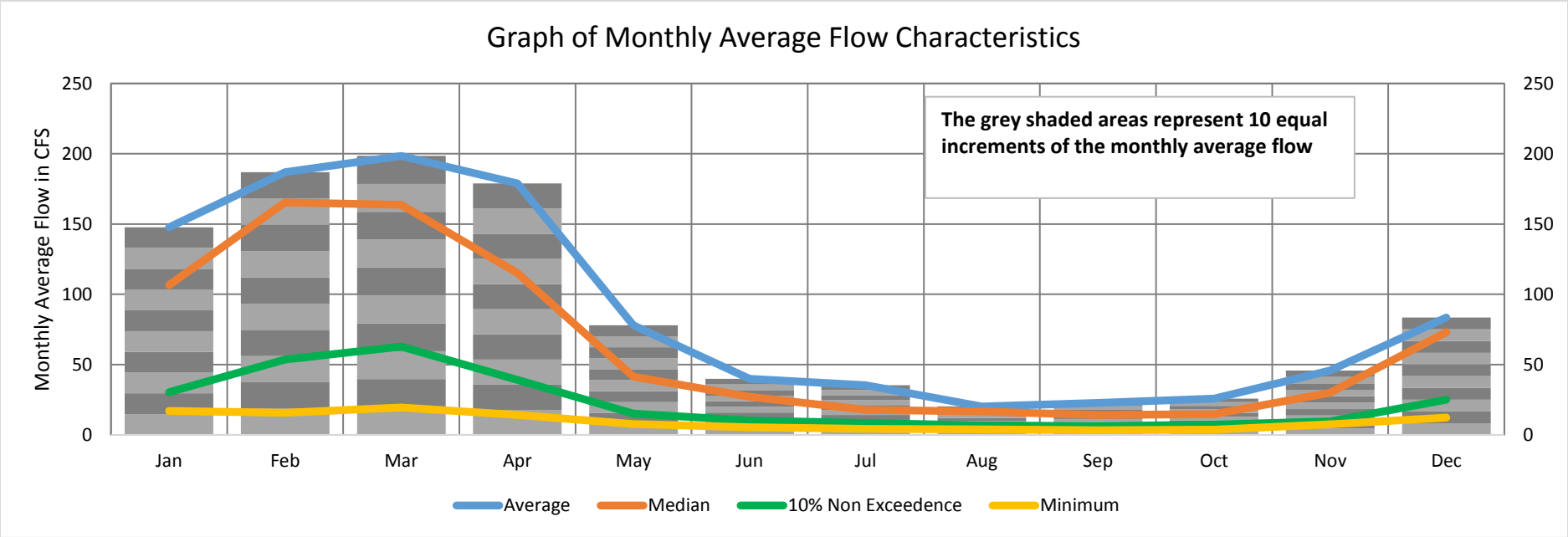
	Flows in CFS
Minimum	3.3
5th %	8
10th %	9
15th %	12
20th %	14
30th %	19
40th %	28
Median	41
60th %	65
70th %	99
80th %	140
90th %	226
Maximum	836
Average	89



Q10/Q50	0.23
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.05
Q5/DA	0.12
Q10/DA	0.15
Q15/DA	0.18
Q20/DA	0.23
Q30/DA	0.31
Q40/DA	0.45
Q50/DA	0.66
Q60/DA	1.04
Q70/DA	1.59
Q80/DA	2.25
Q90/DA	3.62
Qmax/DA	13.43

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

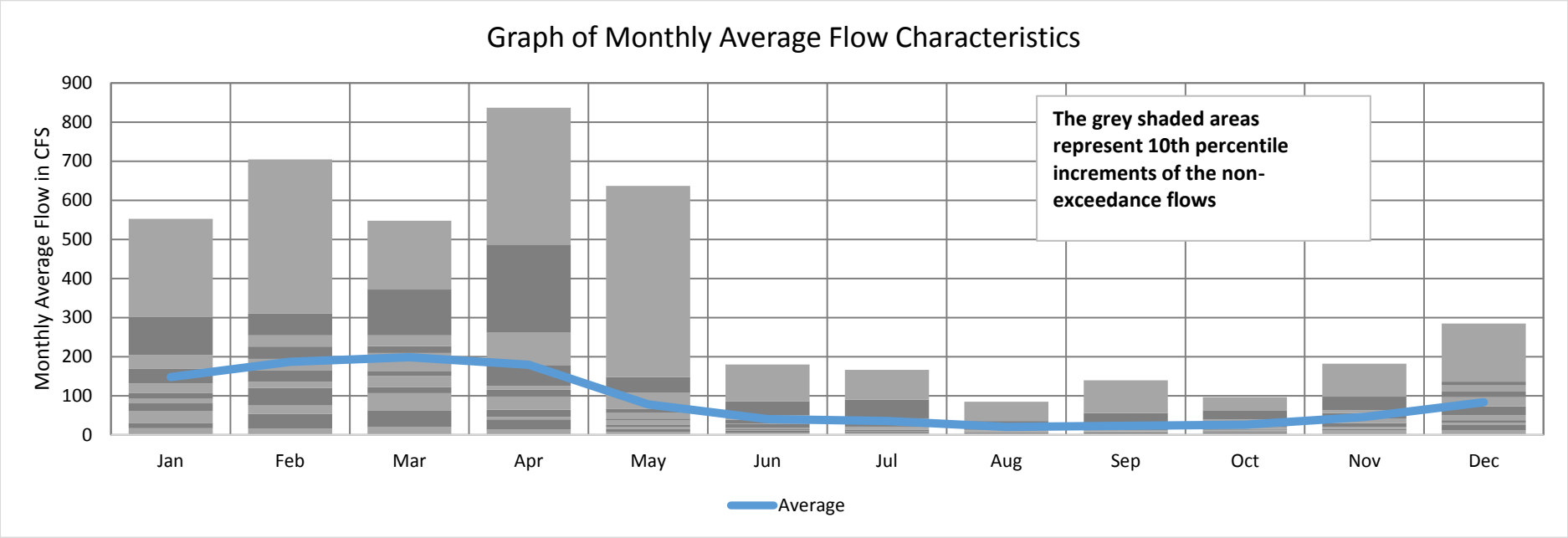
Site #: 02468000 Name: Alamuchee Creek near Cuba, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	148	187	198	179	78	40	35	20	23	26	46	84
100%	553	704	548	836	637	180	166	85	140	97	182	285
98%	486	546	510	733	396	169	152	70	101	81	170	246
95%	437	419	487	543	231	152	140	43	75	75	162	195
90%	302	311	372	487	148	86	90	35	56	62	98	136
75%	180	233	239	206	73	43	36	25	21	35	58	116
50%	107	165	164	115	42	27	18	17	14	15	30	73
25%	73	88	118	51	23	12	11	10	8.7	9.5	14	36
10%	30	54	63	39	15	10	8.5	6.7	6.2	7.4	9.7	25
5%	26	39	38	20	12	7.2	7.5	6.3	5.5	6.2	8.6	17
2%	21	31	31	15	8.7	6.0	6.7	4.8	4.8	5.4	8.3	15
0%	17	16	20	14	7.7	5.4	4.4	3.9	3.3	3.7	7.5	12

Site #: 02468000 Name: Alamuchee Creek near Cuba, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 62 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	148	187	198	179	78	40	35	20	23	26	46	84
100%	553	704	548	836	637	180	166	85	140	97	182	285
98%	486	546	510	733	396	169	152	70	101	81	170	246
95%	437	419	487	543	231	152	140	43	75	75	162	195
90%	302	311	372	487	148	86	90	35	56	62	98	136
75%	180	233	239	206	73	43	36	25	21	35	58	116
50%	107	165	164	115	42	27	18	17	14	15	30	73
25%	73	88	118	51	23	12	11	10	8.7	9.5	14	36
10%	30	54	63	39	15	10	8.5	6.7	6.2	7.4	9.7	25
5%	26	39	38	20	12	7.2	7.5	6.3	5.5	6.2	8.6	17
2%	21	31	31	15	8.7	6.0	6.7	4.8	4.8	5.4	8.3	15
0%	17	16	20	14	7.7	5.4	4.4	3.9	3.3	3.7	7.5	12

Monthly Flows (in CFS) for
02469000 - Kinterbish Creek near York, Ala.

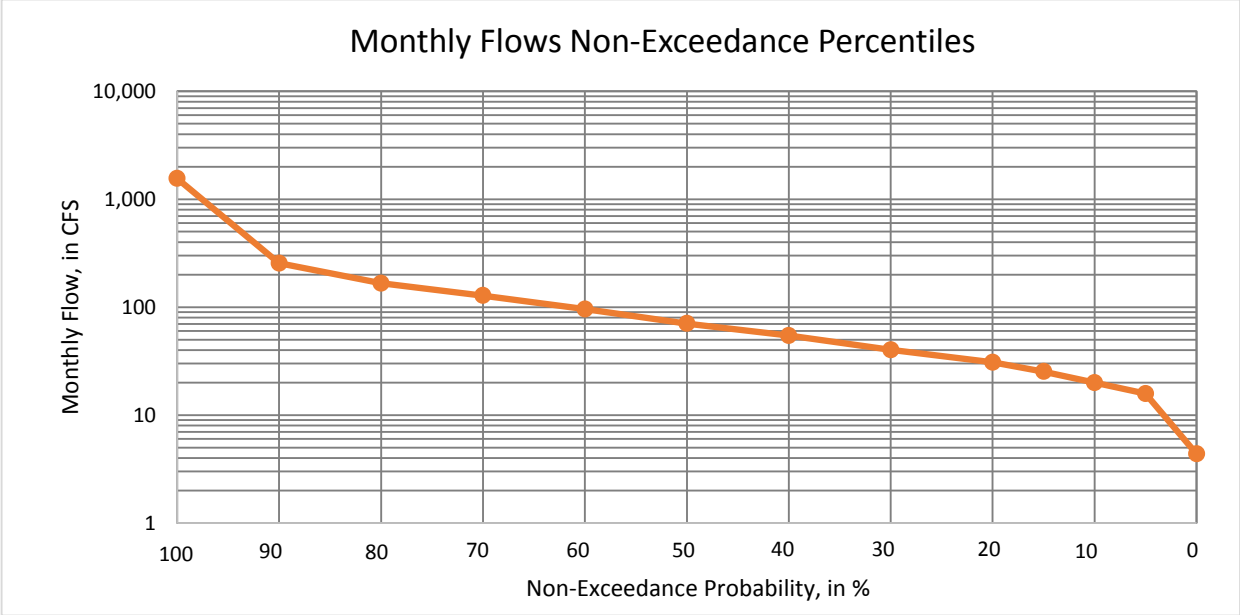
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	342	352	240	277	162	95	55	114	46	107	54	106	161
1976	132	84	665	220	89	52	40	28	34	21	32	153	130
1977	548	158	626	381	67	31	38	44	62	105	188	138	200
1978	195	120	141	85	198	68	35	23	18	15	21	52	81
1979	230	255	428	1,554	89	54	105	49	166	41	193	105	270
1980	241	163	761	694	255	79	62	36	26	60	86	63	211
1981	51	109	161	291	46	54	19	18	19	33	32	65	74
1982	153	231	148	144	51	25	39	56	17	21	46	325	104
1983	211	669	638	734	382	150	92	37	42	33	74	157	265
1984	137	131	178	199	103	31	48	41	20	46	60	102	91
1985	58	330	101	73	54	26	28	34	19	92	71	76	78
1986	55	68	95	33	75	36	17	14	30	24	119	127	58
1987	306	283	293	78	64	72	38	25	19	11	24	37	103
1988	58	89	68	125	28	10	34	13	41	69	125	84	62
1989	167	105	259	152	171	177	192	46	35	81	138	154	140
1990	604	1,143	266	119	66	47	45	28	16	18	31	51	197
1991	74	256	178	316	966	112	55	40	42	32	70	91	186
1992	112	188	80	115	38	66	28	72	27	20	123	136	83
1993	392	162	176	153	107	55	42	53	27	30	106	74	115
1994	191	308	256	151	47	54	118	39	33	58	40	125	117
1995	100	173	366	216	71	58	28	37	21	65	90	140	113
1996	205	218	249	129	51	57	31	42	35	31	42	67	96
1997	145	262	373	179	139	192	114	52	25	34	60	140	142
1998	772	197	208	166	49	37	65	38	20	17	28	58	138
1999	139	268	193	69	33	24	19	13	12	27	18	36	70
2000	46	34	62	130	19	15	7	6	4	5	23	52	34
2001	114	105	283	142	34	77	19	23	105	126	77	265	114
2002	198	154	135	75	30	23	25	14	86	105	90	220	96
2003	108	338	180	1,143	166	106	167	97	49	62	89	88	214
2004	128	512	135	65	72	90	130	35	43	71	208	160	135
2005	105	229	146	332	66	206	174	61	120	43	41	65	131
2006	114	195	186	70	95	24	18	17	10	47	48	54	73
2007	119	83	41	31	16	12	35	9	11	14	16	27	34
2008	37	163	108	83	85	27	15	70	34	24	18	127	65
2009	123	63	235	140	101	29	16	22	93	92	89	187	100
2010	179	227	287	75	74	38	24	20	9	12	26	35	83
2011	70	90	255	99	39	16	21	24	66	15	21	72	66
2012	133	154	194	42	42	24	66	63	44	31	22	160	81
2013	276	425	171	149	134	69	65	55	32	26	68	154	133
2014	96	217	150	634	96	47	35	21	17	18	37	118	123

Non-Exceedance Percentiles

02469000 - Kinterbish Creek near York, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	37	34	41	31	16	10	7	6	4	5	16	27	34
5th %	51	68	67	42	27	15	16	12	10	12	18	36	57
10th %	57	84	94	68	33	22	18	14	12	15	21	50	65
15th %	68	90	107	73	37	24	19	16	17	17	23	52	69
20th %	92	105	135	75	42	25	20	20	18	18	25	57	74
30th %	111	147	150	95	50	30	28	23	20	23	32	66	82
40th %	121	162	177	127	65	38	34	28	26	29	42	81	96
Median	135	191	190	143	71	53	38	36	31	32	57	103	109
60th %	158	221	237	152	87	56	43	39	34	42	70	125	119
70th %	196	255	257	204	98	68	57	45	42	59	87	139	134
80th %	232	288	288	296	135	81	71	54	46	69	93	154	146
90th %	347	359	448	640	174	116	119	64	87	93	127	163	201
Maximum	772	1,143	761	1,554	966	206	192	114	166	126	208	325	270
Average	187	233	243	247	112	62	55	38	39	45	69	111	119

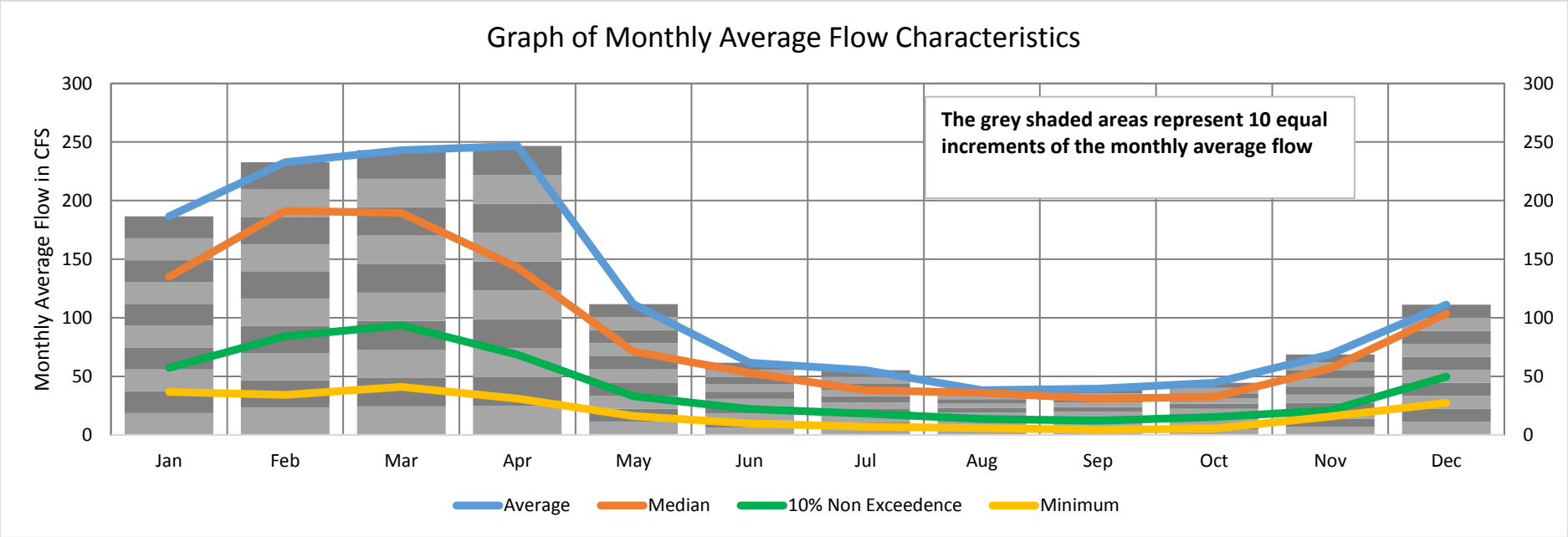
	Flows in CFS
Minimum	4.4
5th %	16
10th %	20
15th %	25
20th %	31
30th %	40
40th %	55
Median	70
60th %	96
70th %	128
80th %	166
90th %	255
Maximum	1,554
Average	120



Q10/Q50	0.28
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.05
Q5/DA	0.17
Q10/DA	0.22
Q15/DA	0.28
Q20/DA	0.34
Q30/DA	0.44
Q40/DA	0.60
Q50/DA	0.77
Q60/DA	1.05
Q70/DA	1.41
Q80/DA	1.83
Q90/DA	2.81
Qmax/DA	17.09

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

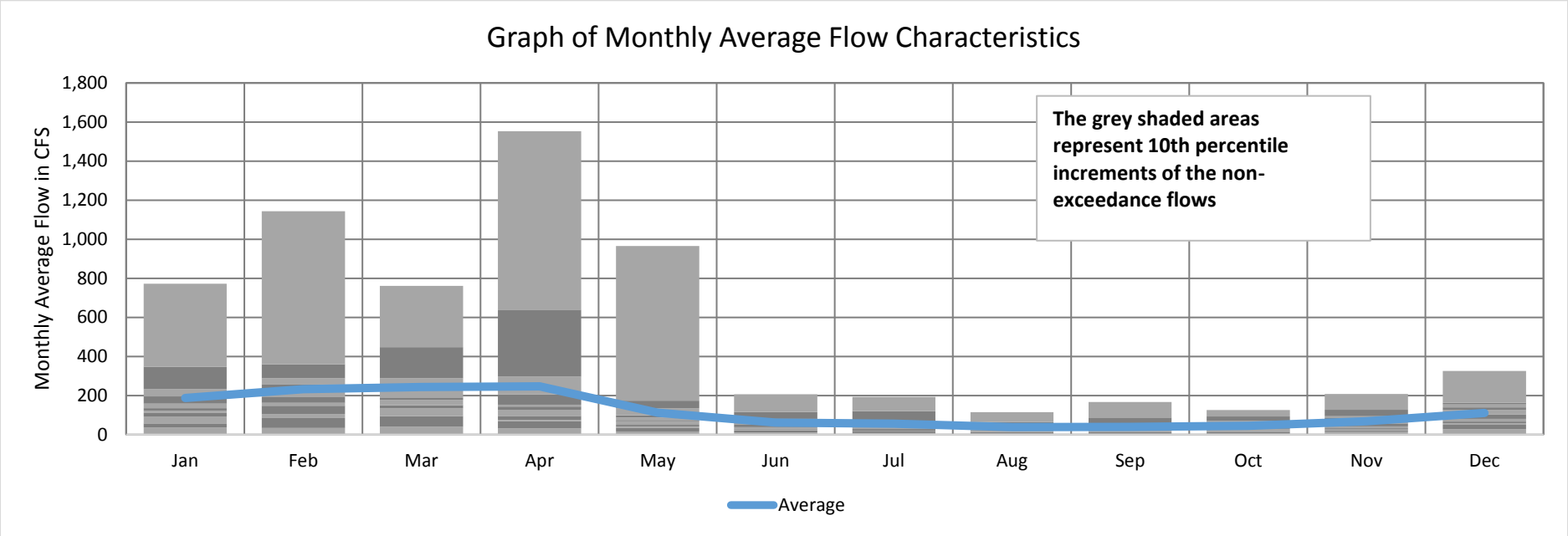
Site #: 02469000 Name: Kinterbish Creek near York, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	187	233	243	247	112	62	55	38	39	45	69	111
100%	772	1,143	761	1,554	966	206	192	114	166	126	208	325
98%	641	773	686	1,233	511	195	178	101	130	111	196	278
95%	551	520	640	754	261	178	167	73	105	106	188	222
90%	347	359	448	640	174	116	119	64	87	93	127	163
75%	206	264	270	234	104	73	65	50	43	63	89	143
50%	135	191	190	143	71	53	38	36	31	32	57	103
25%	104	118	145	82	47	27	25	22	19	21	31	64
10%	57	84	94	68	33	22	18	14	12	15	21	50
5%	51	68	67	42	27	15	16	12	10	12	18	36
2%	44	57	57	33	19	12	13	8.3	8.3	9.8	18	33
0%	37	34	41	31	16	9.8	7.1	5.8	4.4	5.4	16	27

Site #: 02469000 Name: Kinterbish Creek near York, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 91 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	187	233	243	247	112	62	55	38	39	45	69	111
100%	772	1,143	761	1,554	966	206	192	114	166	126	208	325
98%	641	773	686	1,233	511	195	178	101	130	111	196	278
95%	551	520	640	754	261	178	167	73	105	106	188	222
90%	347	359	448	640	174	116	119	64	87	93	127	163
75%	206	264	270	234	104	73	65	50	43	63	89	143
50%	135	191	190	143	71	53	38	36	31	32	57	103
25%	104	118	145	82	47	27	25	22	19	21	31	64
10%	57	84	94	68	33	22	18	14	12	15	21	50
5%	51	68	67	42	27	15	16	12	10	12	18	36
2%	44	57	57	33	19	12	13	8.3	8.3	9.8	18	33
0%	37	34	41	31	16	9.8	7.1	5.8	4.4	5.4	16	27

Monthly Flows (in CFS) for
02469500 - Tuckabum Creek near Butler, Ala.

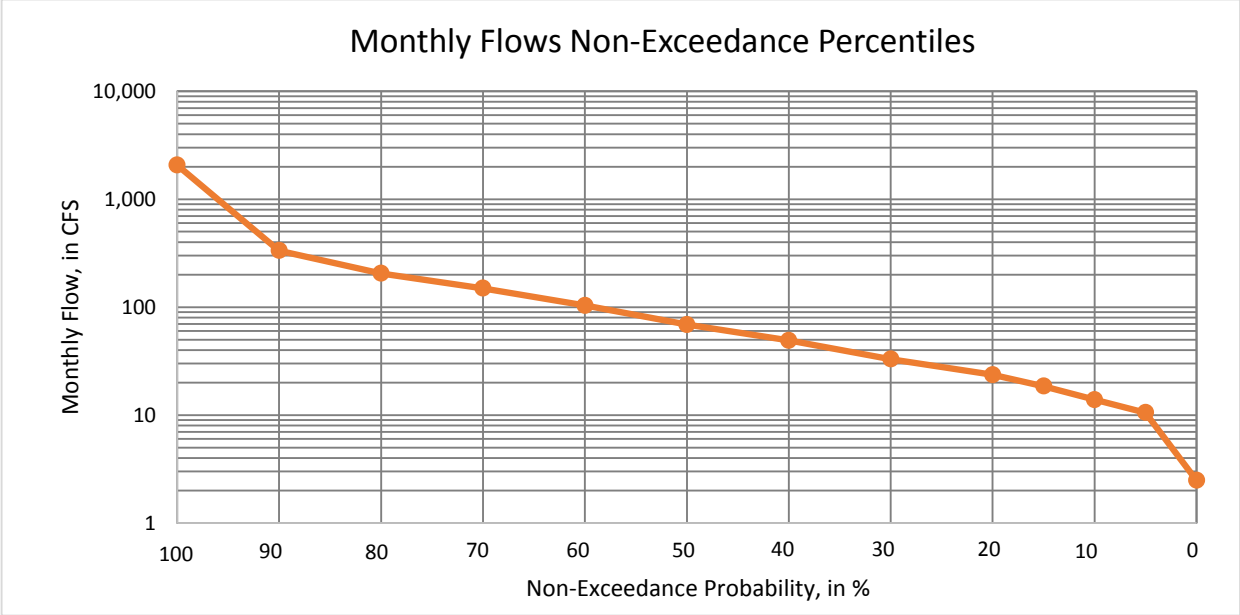
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	458	472	312	365	198	102	50	130	39	119	48	117	199
1976	155	88	905	283	94	46	33	21	27	15	25	187	158
1977	745	193	852	513	65	24	31	37	58	117	237	164	254
1978	247	139	169	89	252	66	28	17	13	10	15	47	91
1979	297	334	578	2,068	94	48	117	43	205	34	244	116	345
1980	313	200	1,035	945	334	80	58	28	19	56	90	59	268
1981	45	122	197	386	40	49	13	12	14	26	24	62	82
1982	185	299	178	172	45	19	32	51	11	15	39	434	123
1983	270	910	869	998	515	181	99	29	35	25	73	192	345
1984	162	153	222	253	113	24	42	34	14	39	56	113	102
1985	53	441	111	73	48	19	21	27	13	98	70	76	85
1986	50	66	102	26	75	29	12	9	23	17	137	148	58
1987	406	374	388	80	61	71	31	18	13	7	17	29	123
1988	54	94	66	145	21	6	27	8	34	67	146	87	62
1989	206	117	339	185	213	221	243	39	27	83	164	188	169
1990	822	1,540	349	136	63	40	38	21	11	12	24	45	250
1991	74	334	222	420	1,307	126	50	33	35	25	68	97	233
1992	126	237	82	130	31	64	21	71	20	14	142	162	90
1993	529	199	219	186	119	49	35	48	20	23	119	74	135
1994	241	409	335	183	41	49	136	32	26	54	33	145	139
1995	109	215	491	278	69	54	21	29	15	62	95	167	133
1996	261	280	325	150	45	52	24	35	28	24	35	64	109
1997	174	344	501	224	165	243	129	46	19	27	56	167	174
1998	1,049	250	266	205	43	30	62	31	14	12	21	53	170
1999	165	352	244	67	26	18	13	8	8	20	12	29	79
2000	39	27	58	153	13	10	4	3	2	3	17	46	31
2001	129	117	374	170	27	77	13	17	116	146	78	348	135
2002	251	188	160	76	23	16	19	9	90	116	96	283	110
2003	121	453	225	1,540	204	118	206	105	43	58	93	92	268
2004	149	696	160	61	71	95	153	28	36	69	266	196	161
2005	116	297	176	443	63	263	217	56	138	36	34	61	157
2006	129	247	234	68	103	18	13	11	6	40	42	49	79
2007	136	85	34	24	11	8	28	6	7	9	10	20	31
2008	29	200	121	86	89	20	10	68	27	17	13	148	68
2009	143	60	305	167	111	22	10	16	100	98	94	235	114
2010	224	293	380	75	73	31	17	14	6	8	19	27	96
2011	69	95	334	108	32	11	14	18	64	10	14	70	70
2012	157	188	246	35	35	18	63	59	37	24	16	195	89
2013	363	574	213	180	159	67	62	50	25	19	65	187	161
2014	104	278	182	862	104	40	28	15	12	13	30	136	148

Non-Exceedance Percentiles

02469500 - Tuckabum Creek near Butler, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	29	27	34	24	11	6	4	3	2	3	10	20	31
5th %	45	66	65	35	20	10	10	8	6	8	13	29	56
10th %	53	87	100	66	26	16	12	9	8	10	15	44	68
15th %	66	95	119	72	30	18	13	11	11	11	17	47	77
20th %	98	117	160	76	35	18	14	14	12	12	19	53	81
30th %	125	177	181	103	44	23	21	17	14	16	25	64	91
40th %	140	199	221	148	62	30	27	21	19	22	35	83	110
Median	160	242	239	171	70	47	31	29	24	25	52	114	128
60th %	193	285	308	185	91	51	36	32	27	35	69	146	143
70th %	248	334	336	261	106	66	52	38	35	54	91	165	161
80th %	301	381	382	393	160	83	70	48	40	67	100	187	179
90th %	465	482	606	871	217	132	137	60	91	100	147	200	255
Maximum	1,049	1,540	1,035	2,068	1,307	263	243	130	205	146	266	434	345
Average	234	299	314	315	130	63	56	33	36	42	72	128	142

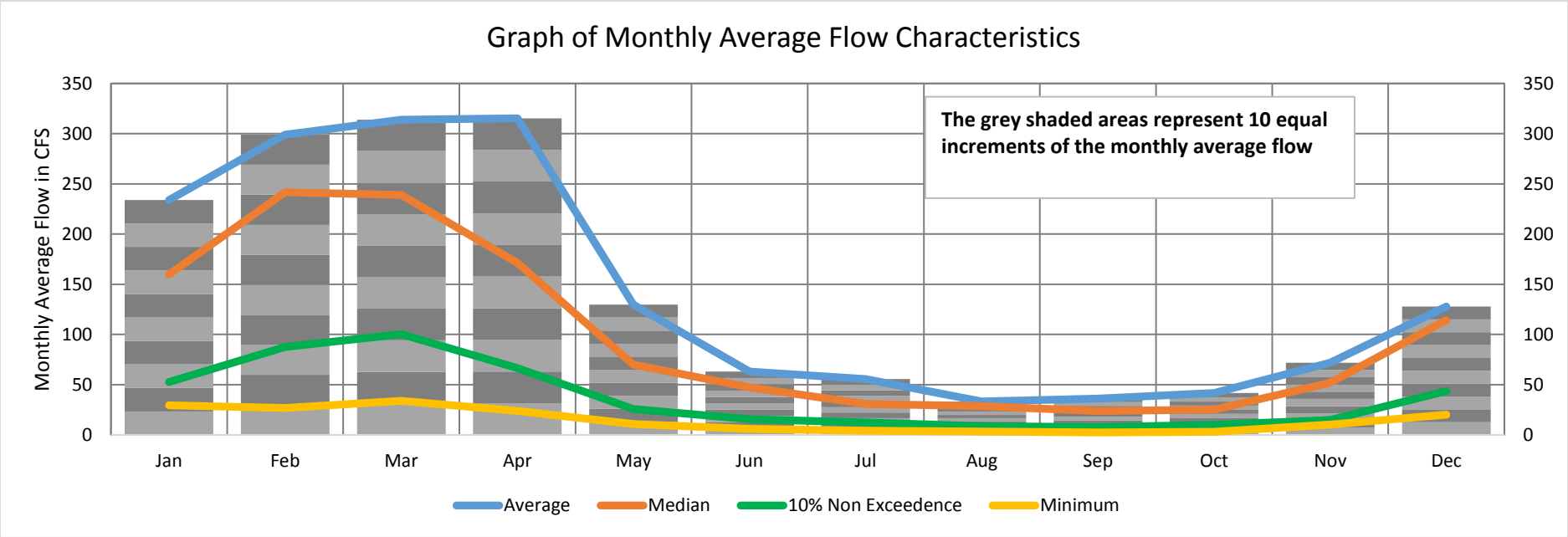
	Flows in CFS
Minimum	2.5
5th %	11
10th %	14
15th %	18
20th %	24
30th %	33
40th %	49
Median	69
60th %	103
70th %	150
80th %	205
90th %	334
Maximum	2,068
Average	143



Q10/Q50	0.20
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.02
Q5/DA	0.09
Q10/DA	0.12
Q15/DA	0.16
Q20/DA	0.21
Q30/DA	0.29
Q40/DA	0.43
Q50/DA	0.60
Q60/DA	0.90
Q70/DA	1.30
Q80/DA	1.79
Q90/DA	2.90
Qmax/DA	17.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

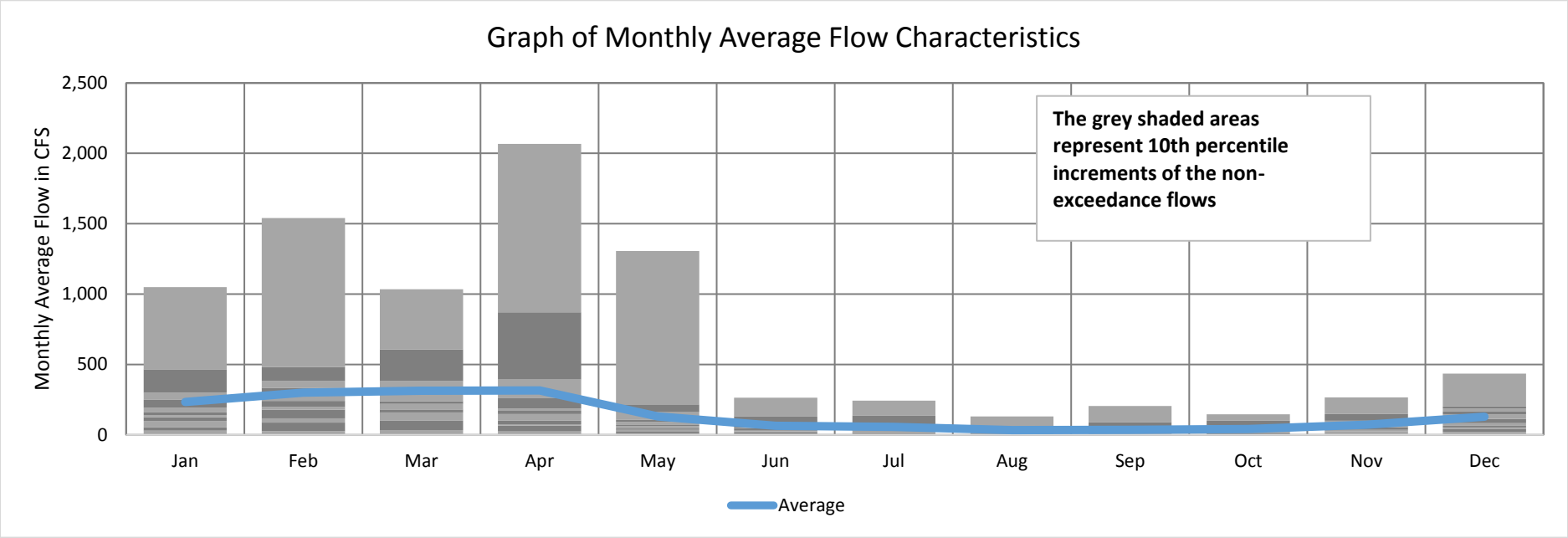
Site #: 02469500 Name: Tuckabum Creek near Butler, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	234	299	314	315	130	63	56	33	36	42	72	128
100%	1,049	1,540	1,035	2,068	1,307	263	243	130	205	146	266	434
98%	872	1,048	933	1,656	689	247	222	111	153	125	248	367
95%	749	706	870	1,025	343	222	206	73	117	117	237	286
90%	465	482	606	871	217	132	137	60	91	100	147	200
75%	264	346	355	304	115	72	62	43	37	59	94	172
50%	160	242	239	171	70	47	31	29	24	25	52	114
25%	114	135	174	84	40	20	18	16	13	14	23	61
10%	53	87	100	66	26	16	12	8.8	7.8	10	15	44
5%	45	66	65	35	20	9.7	10	7.9	6.4	7.7	13	29
2%	37	53	53	26	13	7.3	8.7	5.1	5.1	6.1	12	26
0%	29	27	34	24	11	6.1	4.2	3.4	2.5	3.2	10	20

Site #: 02469500 Name: Tuckabum Creek near Butler, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 115 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	234	299	314	315	130	63	56	33	36	42	72	128
100%	1,049	1,540	1,035	2,068	1,307	263	243	130	205	146	266	434
98%	872	1,048	933	1,656	689	247	222	111	153	125	248	367
95%	749	706	870	1,025	343	222	206	73	117	117	237	286
90%	465	482	606	871	217	132	137	60	91	100	147	200
75%	264	346	355	304	115	72	62	43	37	59	94	172
50%	160	242	239	171	70	47	31	29	24	25	52	114
25%	114	135	174	84	40	20	18	16	13	14	23	61
10%	53	87	100	66	26	16	12	8.8	7.8	10	15	44
5%	45	66	65	35	20	9.7	10	7.9	6.4	7.7	13	29
2%	37	53	53	26	13	7.3	8.7	5.1	5.1	6.1	12	26
0%	29	27	34	24	11	6.1	4.2	3.4	2.5	3.2	10	20

Monthly Flows (in CFS) for
02469550 - Horse Creek near Sweetwater, Ala.

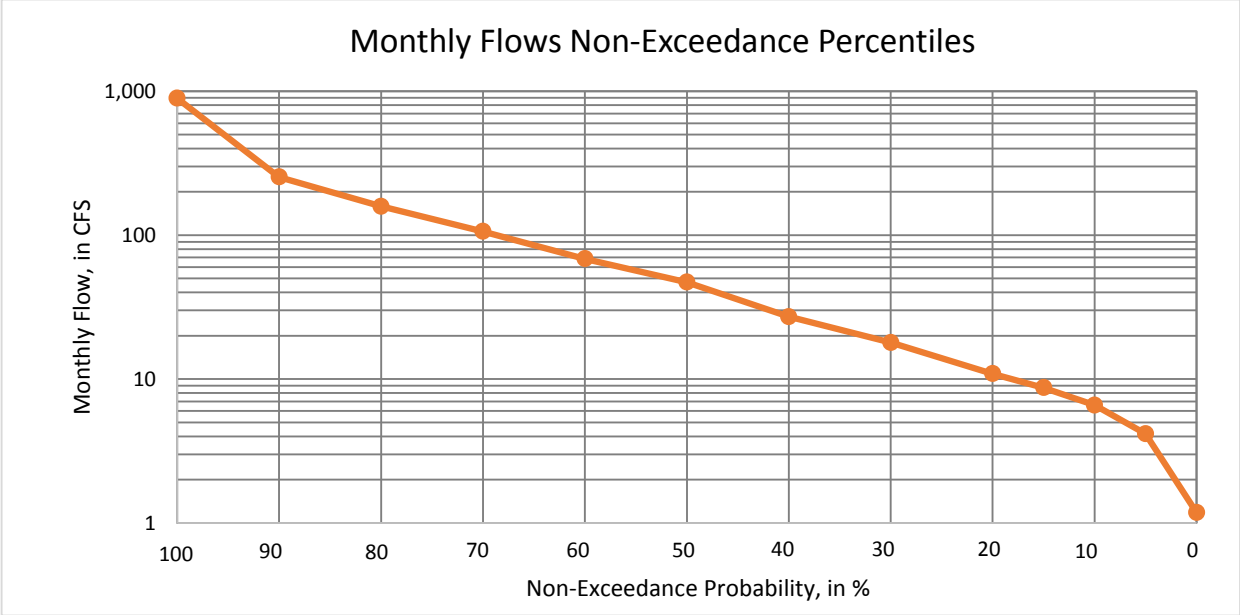
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	397	318	216	187	98	37	22	111	38	162	47	94	143
1976	141	81	623	331	123	66	17	16	17	7	55	181	139
1977	251	282	469	176	38	8	13	29	36	11	46	55	117
1978	174	117	64	59	232	171	20	22	6	3	7	30	75
1979	197	307	524	609	81	32	49	9	42	11	47	56	162
1980	112	94	517	540	466	115	45	16	9	10	14	15	163
1981	14	220	106	62	44	62	7	6	5	2	3	18	45
1982	44	233	59	192	62	11	16	28	6	4	20	150	68
1983	151	507	440	495	221	86	33	17	18	11	91	214	188
1984	158	127	150	101	87	15	19	36	6	26	25	57	67
1985	59	174	93	50	26	7	12	6	15	38	42	78	49
1986	80	121	122	26	24	18	17	4	11	7	109	183	60
1987	238	297	253	64	75	90	34	28	9	4	24	33	95
1988	152	115	69	68	8	3	18	10	54	26	152	71	62
1989	172	60	230	325	97	193	227	26	9	11	47	155	130
1990	521	491	449	113	85	22	20	6	4	3	8	16	143
1991	152	184	240	106	277	49	29	12	11	4	27	49	95
1992	326	279	94	49	10	23	19	15	9	8	211	269	108
1993	280	121	302	309	85	19	12	11	5	7	55	56	105
1994	87	113	157	107	24	26	202	18	8	11	14	42	67
1995	108	86	178	65	15	26	9	59	3	47	185	264	87
1996	238	177	401	144	30	25	18	46	75	20	25	47	104
1997	134	181	145	138	107	242	129	33	7	58	214	159	128
1998	481	318	284	66	16	8	10	9	110	61	14	15	115
1999	256	205	215	48	18	69	21	10	4	12	5	15	72
2000	23	15	63	46	5	3	2	2	2	1	8	32	17
2001	46	41	650	94	19	124	11	8	25	24	14	66	94
2002	85	83	113	41	6	9	17	2	20	53	92	243	64
2003	118	134	269	124	91	287	261	73	40	16	23	28	122
2004	52	200	60	21	41	80	43	21	118	38	134	130	77
2005	65	229	170	258	34	93	256	54	27	10	12	49	104
2006	54	183	80	24	37	7	5	5	3	6	36	104	45
2007	220	76	62	99	8	11	13	3	5	11	7	11	44
2008	55	104	83	66	21	5	3	92	18	4	21	62	44
2009	85	40	406	220	309	48	9	25	105	36	111	597	167
2010	256	372	161	48	113	17	8	6	2	2	7	17	82
2011	23	70	299	72	10	5	7	3	9	2	6	19	44
2012	31	111	145	23	7	11	18	37	46	27	11	98	47
2013	180	893	153	216	114	37	89	78	18	12	21	135	157
2014	72	268	201	307	94	35	13	7	4	6	5	22	85

Non-Exceedance Percentiles

02469550 - Horse Creek near Sweetwater, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	14	15	59	21	5	3	2	2	2	1	3	11	17
5th %	23	41	62	24	7	5	4	3	3	2	5	15	44
10th %	43	69	64	39	8	7	7	4	4	3	7	16	45
15th %	51	81	78	47	10	8	9	5	4	4	7	18	46
20th %	55	85	91	49	16	9	10	6	5	4	8	21	58
30th %	77	112	119	63	23	14	12	9	6	7	14	32	67
40th %	100	121	152	67	32	21	16	11	9	9	20	49	76
Median	137	175	174	100	42	26	18	16	10	11	24	57	91
60th %	155	190	222	117	82	37	19	21	17	11	38	74	104
70th %	185	230	274	179	92	63	24	28	22	21	47	111	116
80th %	241	285	402	228	108	87	44	36	38	29	91	156	132
90th %	285	324	474	326	222	129	137	61	56	47	136	217	158
Maximum	521	893	650	609	466	287	261	111	118	162	214	597	188
Average	157	201	233	152	81	55	44	25	24	20	50	98	94

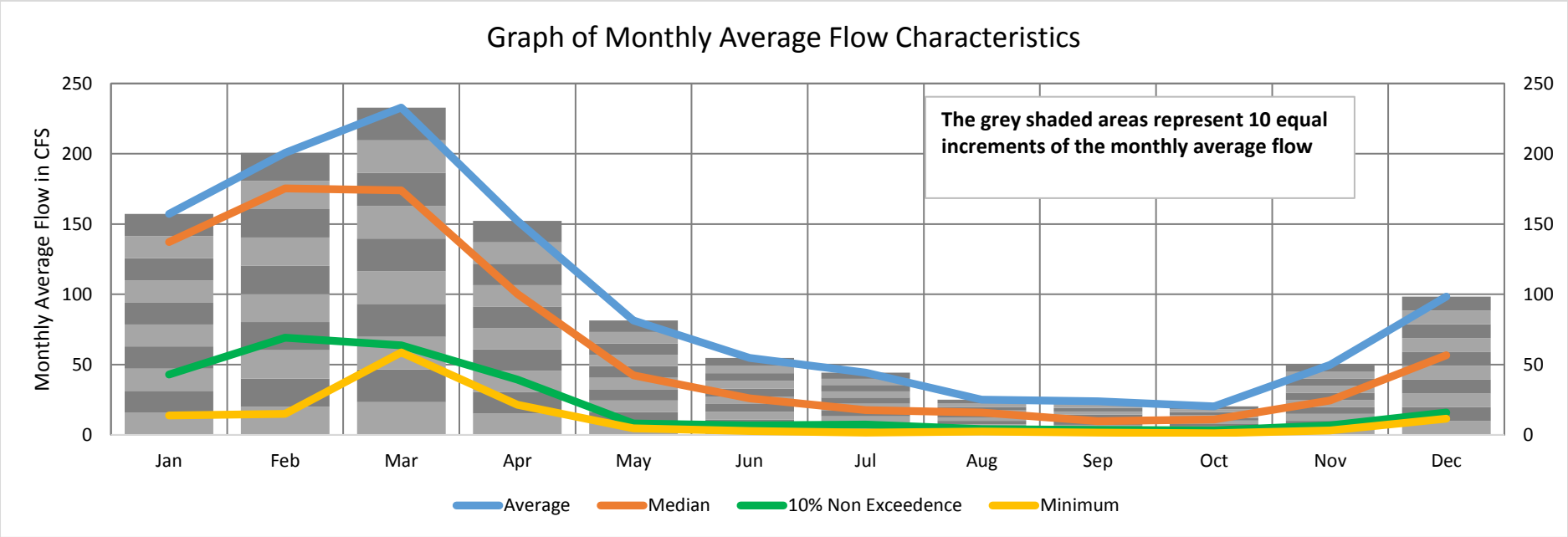
	Flows in CFS
Minimum	1.2
5th %	4
10th %	7
15th %	9
20th %	11
30th %	18
40th %	27
Median	47
60th %	69
70th %	106
80th %	158
90th %	254
Maximum	893
Average	95



Q10/Q50	0.14
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.02
Q5/DA	0.07
Q10/DA	0.11
Q15/DA	0.14
Q20/DA	0.18
Q30/DA	0.30
Q40/DA	0.45
Q50/DA	0.78
Q60/DA	1.14
Q70/DA	1.76
Q80/DA	2.62
Q90/DA	4.20
Qmax/DA	14.79

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

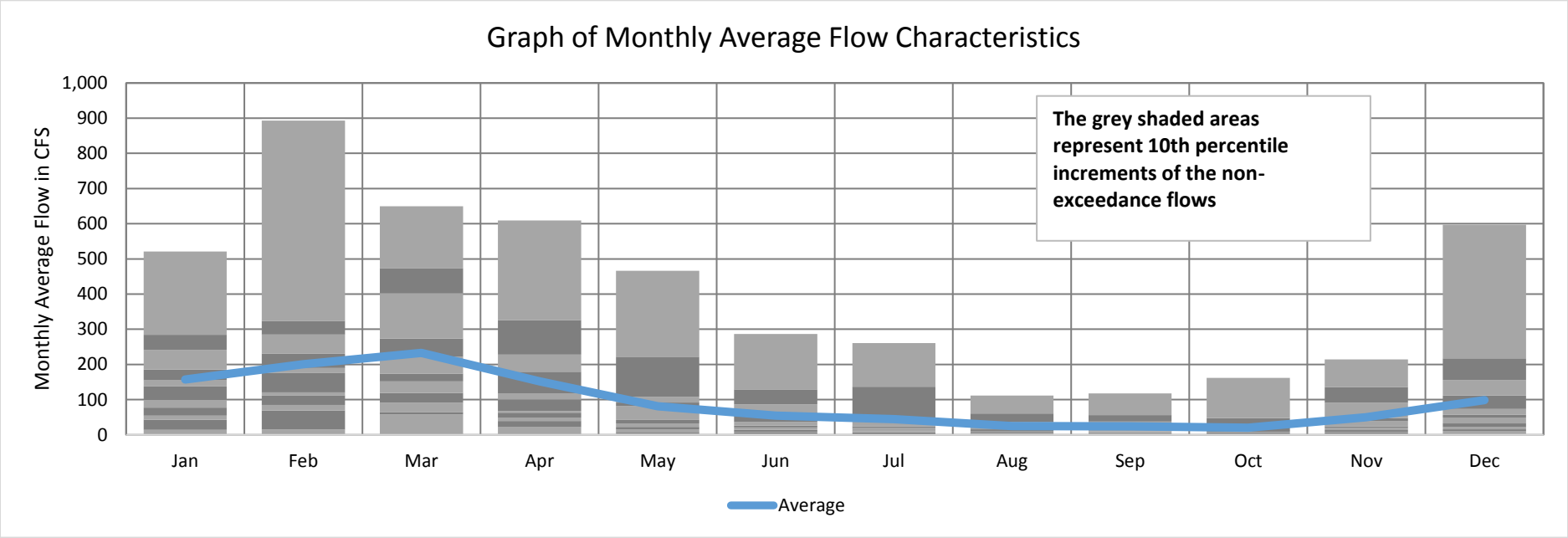
Site #: 02469550 Name: Horse Creek near Sweetwater, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	157	201	233	152	81	55	44	25	24	20	50	98
100%	521	893	650	609	466	287	261	111	118	162	214	597
98%	490	592	629	555	344	252	257	96	112	83	212	341
95%	401	492	529	498	278	195	228	79	105	58	186	264
90%	285	324	474	326	222	129	137	61	56	47	136	217
75%	224	271	299	198	97	71	33	30	29	26	55	138
50%	137	175	174	100	42	26	18	16	9.8	11	24	57
25%	63	101	103	57	19	11	11	6.6	5.8	5.7	12	30
10%	43	69	64	39	8.1	6.8	7.4	4.1	3.6	3.2	6.8	16
5%	23	41	62	24	7.3	5.0	4.5	2.7	3.3	2.0	5.2	15
2%	21	34	60	22	5.5	3.1	2.8	2.4	1.9	1.7	4.5	14
0%	14	15	59	21	4.6	2.8	1.6	2.4	1.6	1.2	3.2	11

Site #: 02469550 Name: Horse Creek near Sweetwater, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 60 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	157	201	233	152	81	55	44	25	24	20	50	98
100%	521	893	650	609	466	287	261	111	118	162	214	597
98%	490	592	629	555	344	252	257	96	112	83	212	341
95%	401	492	529	498	278	195	228	79	105	58	186	264
90%	285	324	474	326	222	129	137	61	56	47	136	217
75%	224	271	299	198	97	71	33	30	29	26	55	138
50%	137	175	174	100	42	26	18	16	9.8	11	24	57
25%	63	101	103	57	19	11	11	6.6	5.8	5.7	12	30
10%	43	69	64	39	8.1	6.8	7.4	4.1	3.6	3.2	6.8	16
5%	23	41	62	24	7.3	5.0	4.5	2.7	3.3	2.0	5.2	15
2%	21	34	60	22	5.5	3.1	2.8	2.4	1.9	1.7	4.5	14
0%	14	15	59	21	4.6	2.8	1.6	2.4	1.6	1.2	3.2	11

Monthly Flows (in CFS) for
02469600 - Bashi Creek near Campbell, Ala.

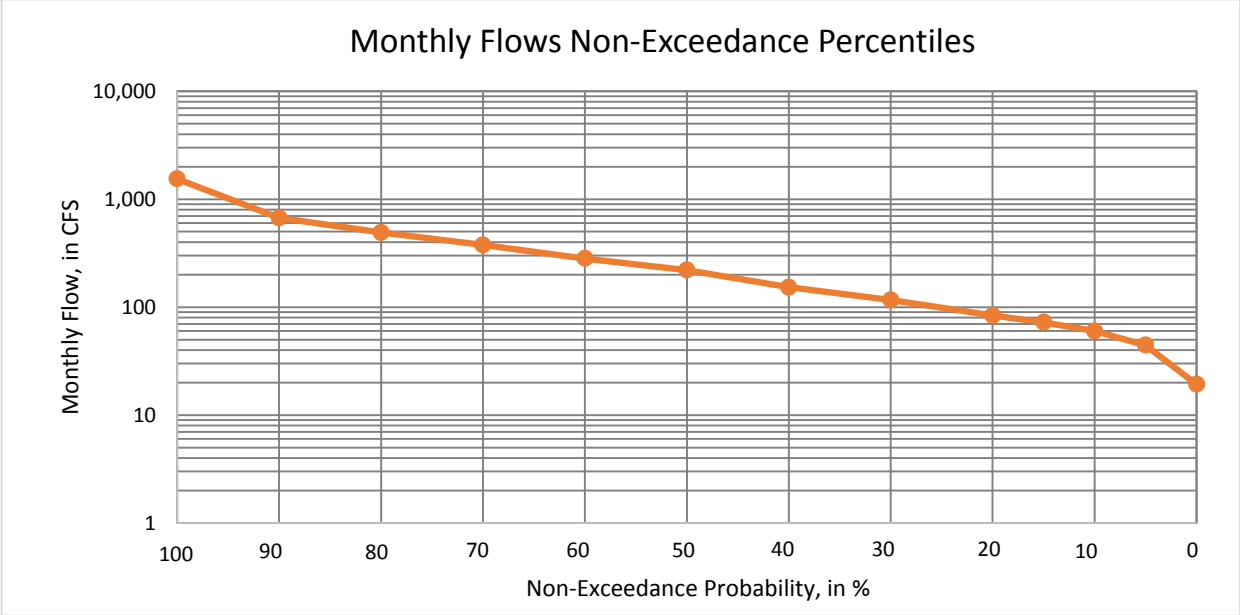
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	902	779	604	549	357	187	134	389	190	498	221	347	428
1976	454	316	1,214	800	415	274	112	107	110	62	243	537	388
1977	665	719	1,007	526	192	70	95	158	184	86	216	245	345
1978	523	402	269	257	633	516	126	134	56	38	64	164	264
1979	568	761	1,083	1,196	315	169	228	73	203	85	221	248	426
1980	390	348	1,074	1,105	1,002	399	214	109	73	78	98	104	417
1981	98	611	377	264	210	265	65	58	49	30	37	116	179
1982	211	635	255	557	266	82	108	156	58	41	126	474	245
1983	477	1,060	965	1,044	612	327	172	112	117	85	341	600	488
1984	491	425	474	365	331	105	121	185	57	149	147	249	258
1985	256	522	345	230	147	62	90	54	103	191	206	308	208
1986	313	411	414	148	139	115	110	45	82	61	383	540	229
1987	643	744	670	269	301	338	178	156	73	40	140	173	308
1988	477	398	282	281	69	34	115	80	242	150	478	288	240
1989	518	258	629	791	356	559	623	149	72	84	221	484	396
1990	1,079	1,038	978	392	324	134	126	55	42	39	67	108	362
1991	479	542	646	377	710	225	159	87	84	44	151	226	310
1992	791	715	348	227	81	136	120	103	74	67	594	696	327
1993	716	411	752	763	326	122	87	85	52	63	244	247	322
1994	331	393	487	378	139	150	576	116	69	82	100	204	252
1995	382	328	530	272	103	148	76	257	38	220	544	688	299
1996	642	528	908	461	164	144	115	218	299	123	146	220	330
1997	439	536	464	448	378	650	430	174	62	254	599	493	409
1998	1,023	778	722	276	109	70	80	75	387	261	99	105	330
1999	675	582	600	222	117	283	130	77	40	87	49	102	245
2000	137	103	266	216	47	37	24	31	23	19	68	169	95
2001	218	202	1,249	348	121	418	83	68	145	140	98	276	281
2002	324	321	393	200	55	72	114	31	126	237	344	652	239
2003	404	440	697	418	341	727	683	295	198	107	138	157	384
2004	234	572	258	131	201	312	208	128	404	191	441	431	290
2005	272	626	515	678	176	345	674	242	152	78	90	226	337
2006	242	540	312	143	189	65	47	49	39	58	183	371	184
2007	610	303	265	361	69	83	94	33	49	85	62	87	174
2008	243	371	321	276	128	51	36	343	116	44	127	264	192
2009	327	197	915	611	764	224	75	146	373	185	387	1,180	451
2010	674	864	496	223	394	114	70	56	27	26	65	111	257
2011	138	287	747	292	80	53	60	39	72	27	59	120	164
2012	167	388	462	135	65	83	115	189	218	154	82	358	201
2013	535	1,541	479	604	396	188	336	307	118	89	128	441	423
2014	290	695	574	761	347	181	92	61	46	59	51	134	271

Non-Exceedance Percentiles

02469600 - Bashi Creek near Campbell, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	98	103	255	131	47	34	24	31	23	19	37	87	95
5th %	138	202	264	143	64	50	47	33	38	27	51	104	174
10th %	207	284	269	195	69	61	65	44	40	37	61	108	184
15th %	232	314	308	221	81	69	74	53	46	40	64	116	199
20th %	243	326	340	226	108	72	79	56	49	43	68	131	225
30th %	306	391	407	268	136	99	91	71	58	60	98	172	245
40th %	361	411	477	279	171	129	109	83	72	74	127	226	262
Median	446	525	523	363	206	149	115	108	78	84	143	249	295
60th %	484	554	614	402	319	187	123	130	113	86	192	296	324
70th %	545	629	705	533	343	267	142	156	132	128	221	389	340
80th %	648	724	910	624	381	329	209	186	192	160	341	486	390
90th %	723	788	1,013	791	614	428	444	261	247	221	444	605	423
Maximum	1,079	1,541	1,249	1,196	1,002	727	683	389	404	498	599	1,180	488
Average	459	542	601	440	279	213	178	131	123	110	201	324	299

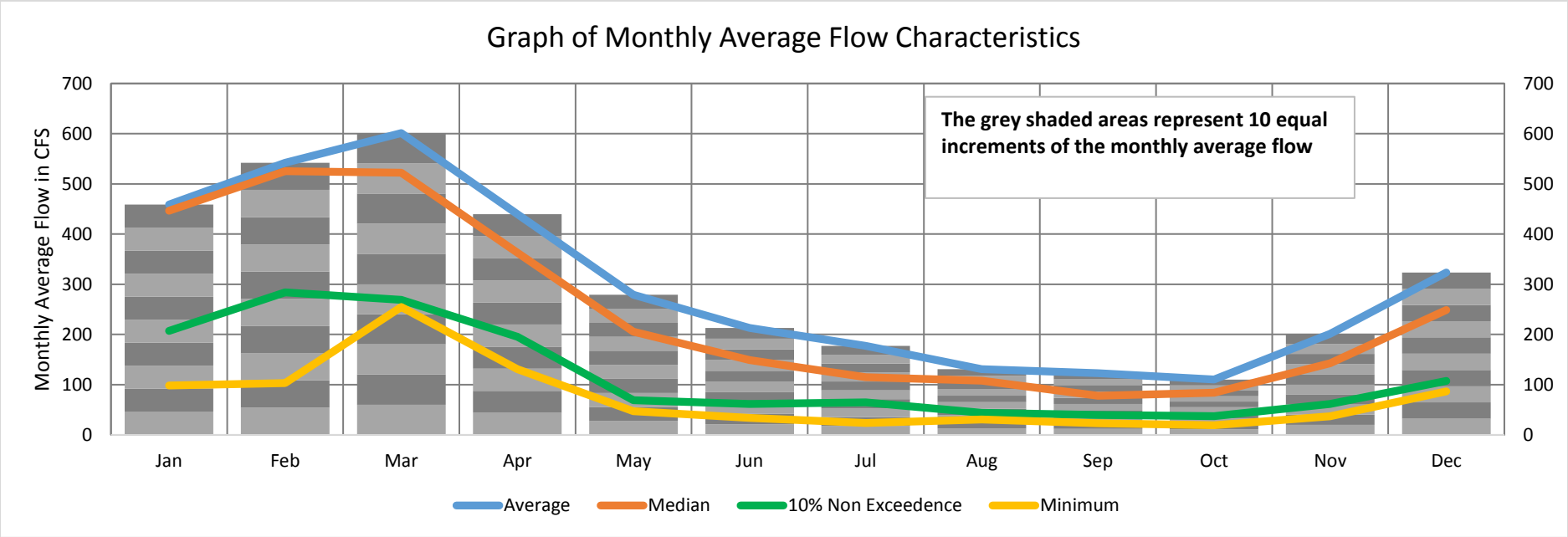
	Flows in CFS
Minimum	19.3
5th %	44
10th %	60
15th %	72
20th %	84
30th %	116
40th %	153
Median	220
60th %	282
70th %	377
80th %	491
90th %	671
Maximum	1,541
Average	300



Q10/Q50	0.27
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.25
Q5/DA	0.58
Q10/DA	0.78
Q15/DA	0.94
Q20/DA	1.09
Q30/DA	1.52
Q40/DA	2.00
Q50/DA	2.87
Q60/DA	3.69
Q70/DA	4.92
Q80/DA	6.41
Q90/DA	8.75
Qmax/DA	20.11

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

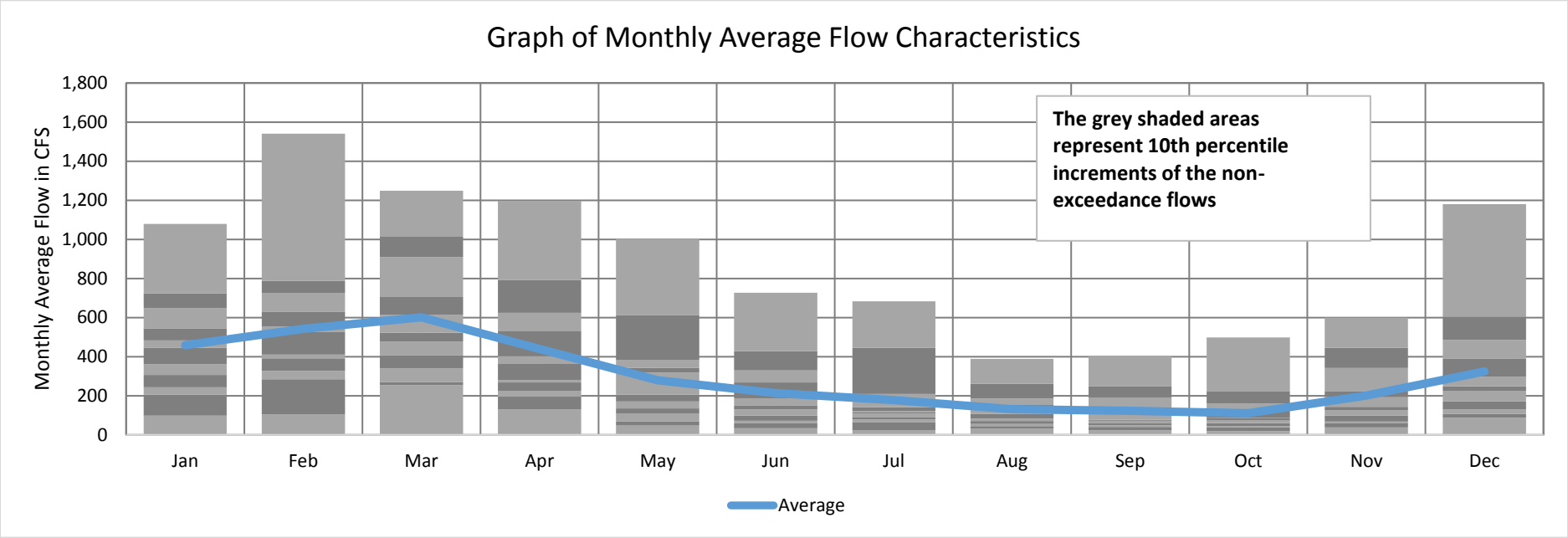
Site #: 02469600 Name: Bashi Creek near Campbell, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	459	542	601	440	279	213	178	131	123	110	201	324
100%	1,079	1,541	1,249	1,196	1,002	727	683	389	404	498	599	1,180
98%	1,036	1,166	1,222	1,125	816	667	676	353	391	313	595	803
95%	908	1,039	1,089	1,047	713	564	626	309	374	254	546	689
90%	723	788	1,013	791	614	428	444	261	247	221	444	605
75%	618	700	748	569	356	290	174	162	160	149	244	449
50%	446	525	523	363	206	149	115	108	78	84	143	249
25%	268	365	370	250	120	83	86	60	55	54	88	162
10%	207	284	269	195	69	61	65	44	40	37	61	108
5%	138	202	264	143	64	50	47	33	38	27	51	104
2%	129	176	257	134	53	37	34	31	26	24	47	99
0%	98	103	255	131	47	34	24	31	23	19	37	87

Site #: 02469600 Name: Bashi Creek near Campbell, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 77 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	459	542	601	440	279	213	178	131	123	110	201	324
100%	1,079	1,541	1,249	1,196	1,002	727	683	389	404	498	599	1,180
98%	1,036	1,166	1,222	1,125	816	667	676	353	391	313	595	803
95%	908	1,039	1,089	1,047	713	564	626	309	374	254	546	689
90%	723	788	1,013	791	614	428	444	261	247	221	444	605
75%	618	700	748	569	356	290	174	162	160	149	244	449
50%	446	525	523	363	206	149	115	108	78	84	143	249
25%	268	365	370	250	120	83	86	60	55	54	88	162
10%	207	284	269	195	69	61	65	44	40	37	61	108
5%	138	202	264	143	64	50	47	33	38	27	51	104
2%	129	176	257	134	53	37	34	31	26	24	47	99
0%	98	103	255	131	47	34	24	31	23	19	37	87

Monthly Flows (in CFS) for
02469700 - Okatuppa Creek at Gilbertown, Ala.

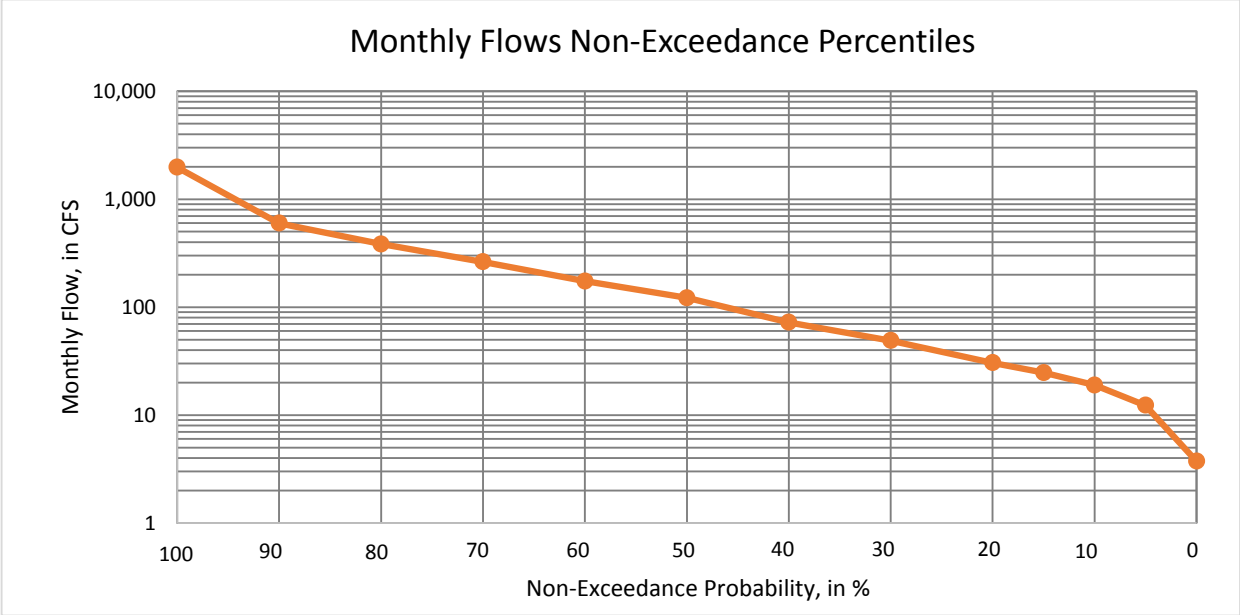
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	915	743	515	450	243	96	60	275	98	392	122	233	344
1976	343	204	1,401	771	302	166	46	43	45	20	140	436	328
1977	593	663	1,072	423	100	23	36	76	94	32	119	142	279
1978	420	288	163	152	551	412	55	60	17	10	21	80	185
1979	473	719	1,190	1,372	203	84	128	25	109	31	122	145	380
1980	276	234	1,175	1,225	1,065	285	117	44	25	28	38	41	380
1981	38	524	263	158	114	158	21	18	14	7	10	49	112
1982	115	554	150	460	159	30	44	75	18	11	55	365	167
1983	367	1,154	1,009	1,128	525	215	86	46	49	31	228	511	440
1984	383	312	365	251	218	42	51	95	17	70	68	145	168
1985	151	419	231	129	68	20	34	16	41	99	110	197	125
1986	201	297	300	69	63	48	45	12	30	19	269	439	149
1987	565	695	599	162	190	224	90	74	25	10	63	86	229
1988	368	284	174	172	23	8	48	28	139	70	369	179	154
1989	414	152	547	758	242	462	539	69	25	30	122	376	313
1990	1,184	1,119	1,029	278	212	60	55	17	11	10	22	44	333
1991	370	442	568	263	651	126	77	32	30	12	71	126	230
1992	759	656	235	127	29	61	51	41	26	22	504	632	260
1993	658	298	706	721	213	52	32	31	15	20	141	143	252
1994	218	279	379	264	63	70	483	49	23	30	39	109	167
1995	267	215	428	164	41	69	26	152	10	121	444	622	214
1996	563	426	925	350	80	66	48	120	189	53	68	121	250
1997	327	434	354	336	264	573	317	87	20	149	510	386	312
1998	1,097	741	667	168	45	24	29	26	273	155	39	42	273
1999	605	489	511	123	49	174	57	27	11	32	14	40	176
2000	62	41	159	119	13	10	5	7	5	4	23	83	44
2001	120	108	1,459	235	52	305	30	23	67	64	38	168	224
2002	212	209	278	106	17	25	47	7	55	135	230	576	158
2003	290	328	634	305	227	673	615	185	105	43	62	75	295
2004	133	478	153	58	107	201	112	56	290	99	329	318	192
2005	165	543	410	609	88	231	604	139	71	28	34	127	252
2006	140	440	201	66	98	21	13	14	10	18	93	257	112
2007	523	192	158	247	23	30	36	8	14	31	20	32	109
2008	140	257	208	168	56	15	9	229	49	12	56	158	112
2009	214	104	935	525	722	125	26	67	259	95	273	1,346	394
2010	604	861	389	124	280	47	24	17	6	6	21	46	198
2011	62	178	699	182	28	16	19	10	25	6	19	51	108
2012	82	274	352	61	21	30	48	98	120	73	30	244	119
2013	433	1,971	371	516	282	97	223	196	50	33	56	329	369
2014	181	631	480	719	233	92	35	19	13	18	15	60	204

Non-Exceedance Percentiles

02469700 - Okatuppa Creek at Gilbertown, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	38	41	150	58	13	8	5	7	5	4	10	32	44
5th %	62	108	158	65	21	15	13	8	10	6	15	41	109
10th %	112	175	162	103	23	20	21	12	11	10	20	44	112
15th %	131	202	197	123	29	23	26	16	13	10	21	48	118
20th %	140	214	227	126	44	25	28	17	14	12	23	58	144
30th %	195	277	294	161	61	39	35	24	18	19	38	85	167
40th %	248	297	369	171	85	57	45	30	25	25	55	126	189
Median	335	422	419	249	110	70	48	44	28	31	66	145	219
60th %	375	456	528	289	207	97	53	57	47	32	100	186	251
70th %	445	547	643	431	229	161	65	74	58	56	122	275	275
80th %	570	669	927	541	267	217	113	95	100	77	228	378	316
90th %	668	754	1,082	760	528	316	333	155	144	123	333	517	370
Maximum	1,184	1,971	1,459	1,372	1,065	673	615	275	290	392	510	1,346	440
Average	376	474	546	363	199	137	111	65	62	53	125	239	228

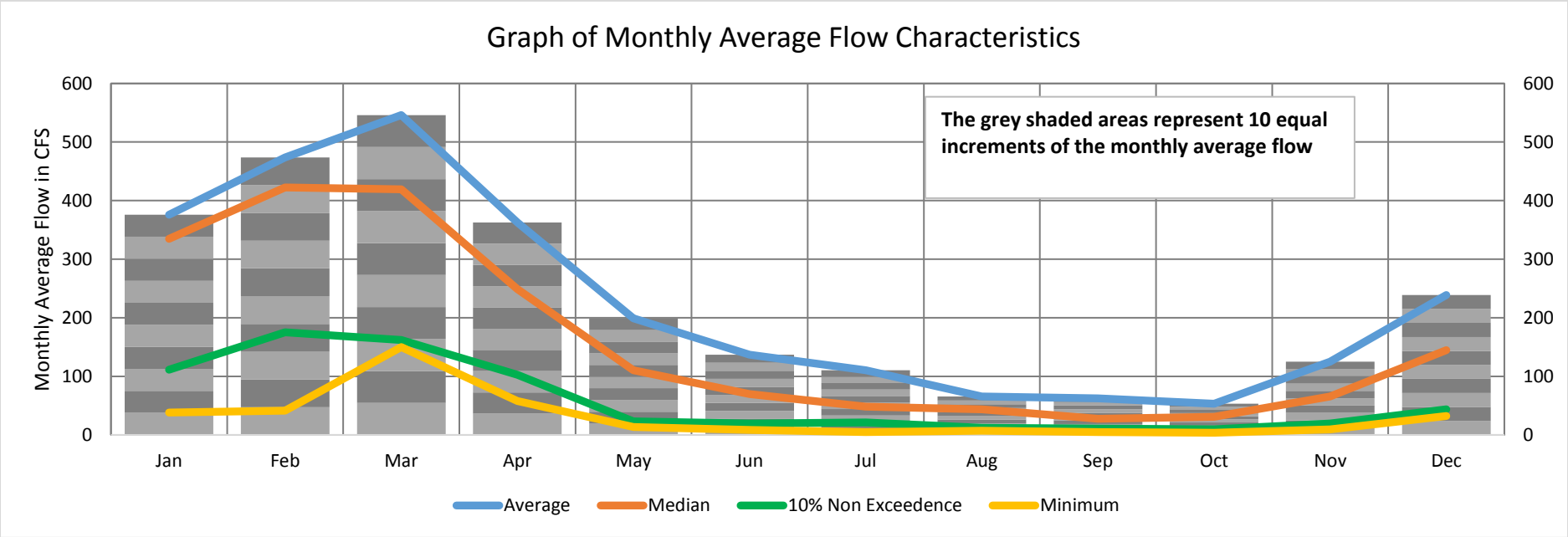
	Flows in CFS
Minimum	3.7
5th %	12
10th %	19
15th %	25
20th %	30
30th %	49
40th %	72
Median	122
60th %	174
70th %	263
80th %	384
90th %	599
Maximum	1,971
Average	229



Q10/Q50	0.16
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.03
Q5/DA	0.08
Q10/DA	0.13
Q15/DA	0.17
Q20/DA	0.21
Q30/DA	0.33
Q40/DA	0.49
Q50/DA	0.82
Q60/DA	1.17
Q70/DA	1.78
Q80/DA	2.59
Q90/DA	4.05
Qmax/DA	13.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

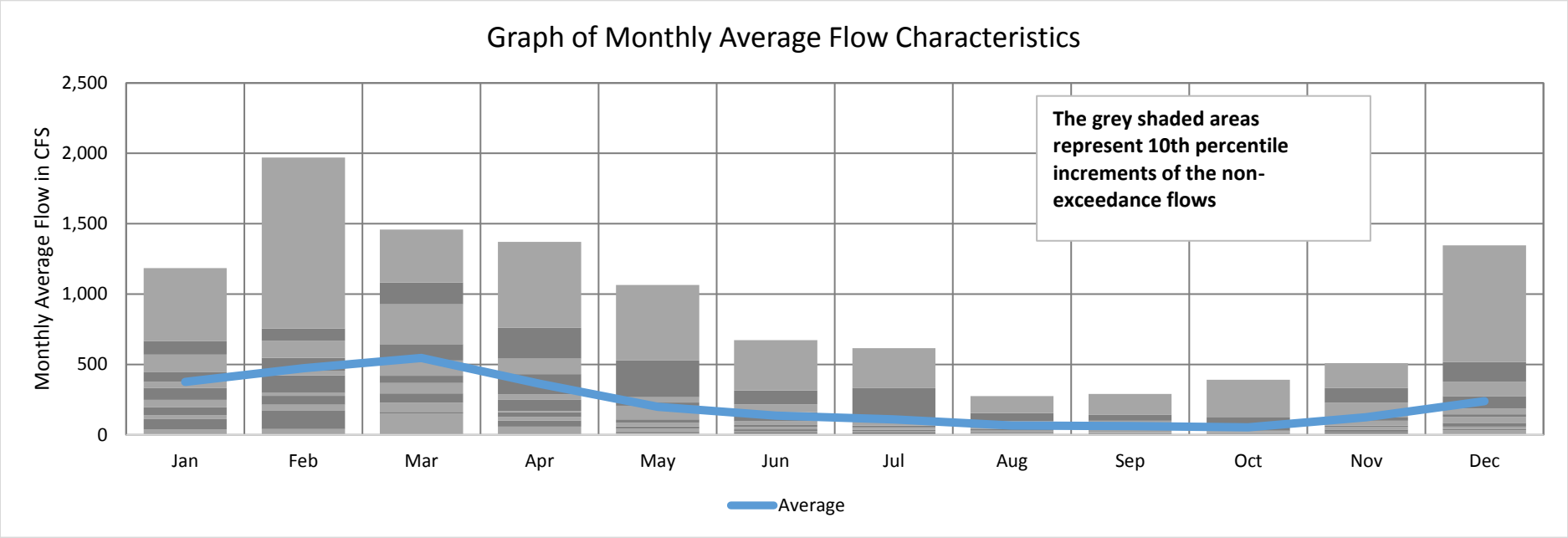
Site #: 02469700 Name: Okatuppa Creek at Gilbertown, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	376	474	546	363	199	137	111	65	62	53	125	239
100%	1,184	1,971	1,459	1,372	1,065	673	615	275	290	392	510	1,346
98%	1,116	1,334	1,414	1,257	798	595	607	239	277	207	505	789
95%	924	1,121	1,200	1,133	654	468	543	198	260	149	447	622
90%	668	754	1,082	760	528	316	333	155	144	123	333	517
75%	533	637	701	474	242	181	87	79	77	70	141	338
50%	335	422	419	249	110	70	48	44	28	31	66	145
25%	161	251	256	146	51	30	32	19	17	17	33	79
10%	112	175	162	103	23	20	21	12	11	9.6	20	44
5%	62	108	158	65	21	15	13	8.2	9.7	6.1	15	41
2%	57	90	152	60	16	9.3	8.3	7.4	5.8	5.3	13	39
0%	38	41	150	58	13	8.4	5.0	7.2	4.9	3.7	9.6	32

Site #: 02469700 Name: Okatuppa Creek at Gilbertown, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 148 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	376	474	546	363	199	137	111	65	62	53	125	239
100%	1,184	1,971	1,459	1,372	1,065	673	615	275	290	392	510	1,346
98%	1,116	1,334	1,414	1,257	798	595	607	239	277	207	505	789
95%	924	1,121	1,200	1,133	654	468	543	198	260	149	447	622
90%	668	754	1,082	760	528	316	333	155	144	123	333	517
75%	533	637	701	474	242	181	87	79	77	70	141	338
50%	335	422	419	249	110	70	48	44	28	31	66	145
25%	161	251	256	146	51	30	32	19	17	17	33	79
10%	112	175	162	103	23	20	21	12	11	9.6	20	44
5%	62	108	158	65	21	15	13	8.2	9.7	6.1	15	41
2%	57	90	152	60	16	9.3	8.3	7.4	5.8	5.3	13	39
0%	38	41	150	58	13	8.4	5.0	7.2	4.9	3.7	9.6	32

Monthly Flows (in CFS) for

02469761 - Tombigbee River at Coffeeville Lock and Dam, Ala. (represents streamflow for 03160201)

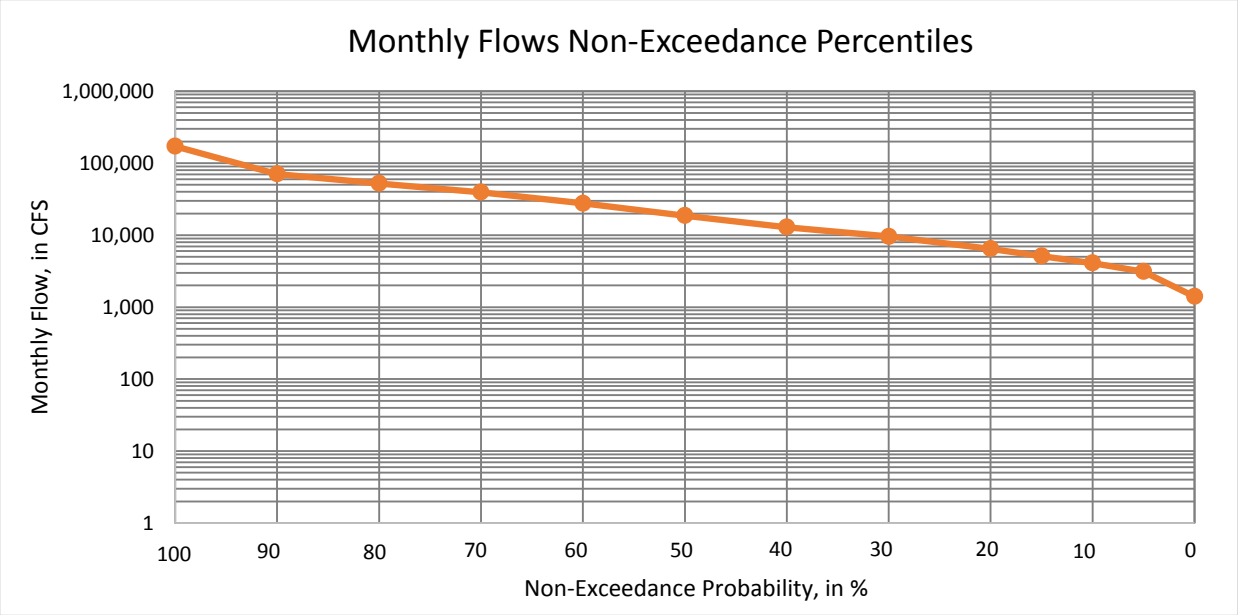
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	97,090	81,960	90,100	75,510	27,880	16,910	13,060	21,880	10,290	39,840	16,050	27,120	42,969
1976	50,680	40,590	81,770	70,860	43,630	14,020	8,005	6,276	8,012	4,279	6,497	24,020	29,854
1977	52,250	23,850	117,000	90,840	9,831	5,272	6,336	6,082	10,790	29,370	38,030	44,130	36,249
1978	45,770	28,980	39,450	13,850	52,440	25,100	6,008	5,149	3,130	1,863	2,448	9,942	19,525
1979	68,720	60,600	94,450	147,900	27,390	15,820	22,270	8,901	33,190	10,500	39,560	36,350	46,896
1980	55,190	44,960	123,300	171,600	72,770	14,220	7,556	4,848	4,604	10,290	14,920	16,380	44,985
1981	7,689	32,010	29,350	52,650	7,595	10,530	4,416	3,940	4,209	2,860	1,973	9,562	13,712
1982	58,790	56,780	35,980	62,650	22,070	12,450	10,450	12,060	4,001	3,850	7,766	89,720	31,278
1983	63,830	126,800	115,000	131,400	88,240	45,410	12,610	4,617	5,288	3,713	16,920	100,900	59,115
1984	61,800	37,270	49,300	57,190	69,850	7,925	6,691	8,780	2,890	12,620	13,430	25,550	29,477
1985	15,790	80,450	25,970	19,420	28,800	8,735	11,000	12,870	5,476	13,570	13,580	19,430	20,875
1986	11,540	19,820	23,670	5,781	8,867	14,980	4,313	3,315	3,720	5,776	31,920	46,050	14,949
1987	64,900	52,600	85,490	17,710	10,000	11,920	8,057	4,097	3,518	1,401	3,451	7,774	22,477
1988	22,590	28,120	15,600	25,370	4,460	2,557	5,458	3,125	10,000	11,470	23,650	19,460	14,197
1989	83,570	49,850	83,520	51,480	26,310	49,640	58,070	8,613	7,787	17,450	28,270	32,250	41,409
1990	99,910	161,100	97,510	27,440	23,050	14,390	6,549	3,843	2,913	2,270	3,784	41,410	39,664
1991	49,860	71,270	87,170	98,840	153,100	54,200	9,932	6,207	6,481	3,800	9,038	39,750	49,032
1992	28,450	39,590	33,080	19,310	4,663	11,080	7,757	12,480	12,800	4,658	36,000	43,260	20,956
1993	87,050	44,900	41,890	41,550	30,390	8,108	6,583	8,330	5,277	3,590	10,080	15,800	25,234
1994	38,080	92,560	59,440	73,240	10,340	15,390	28,680	9,577	7,064	12,870	12,980	39,970	32,930
1995	37,370	53,270	97,360	51,270	21,930	9,269	6,165	8,104	3,255	15,380	29,120	41,150	31,042
1996	52,160	67,270	60,140	42,420	12,100	9,699	11,070	10,680	10,170	7,045	17,390	38,870	28,022
1997	55,350	58,080	55,480	25,970	40,520	68,860	33,890	12,220	6,124	11,030	15,140	30,010	34,254
1998	84,480	61,160	61,710	38,500	15,450	8,743	12,650	10,460	6,176	4,997	5,371	22,100	27,516
1999	60,430	74,100	53,950	26,020	15,960	13,650	15,250	2,353	2,273	3,306	2,892	5,386	22,673
2000	14,430	10,790	34,750	73,910	7,091	5,359	3,132	2,739	2,161	1,508	9,692	14,890	14,988
2001	37,670	60,180	93,050	54,160	9,219	25,440	7,579	7,782	24,100	23,150	10,870	67,280	34,903
2002	52,220	54,390	42,470	32,290	31,840	6,258	9,663	4,897	13,400	26,720	42,930	57,310	31,090
2003	30,320	71,050	79,570	51,190	71,780	37,170	30,920	24,140	14,460	8,623	18,030	24,100	38,268
2004	33,160	91,990	49,290	17,130	12,330	26,610	27,840	9,718	14,120	15,170	45,010	74,570	34,373
2005	33,040	50,240	40,180	61,720	14,320	43,570	37,170	12,660	22,500	6,614	6,806	21,790	28,996
2006	41,820	67,380	49,450	22,340	25,830	4,697	3,246	3,442	4,015	10,470	21,530	13,480	22,038
2007	46,110	22,840	13,470	7,031	2,866	2,416	5,036	2,531	3,068	2,939	2,742	3,754	9,521
2008	7,729	34,000	31,850	25,190	27,560	9,773	4,515	11,660	8,899	4,343	4,232	48,420	18,118
2009	63,500	16,990	85,540	62,710	54,700	14,210	6,410	8,685	40,870	56,230	41,120	73,960	44,008
2010	56,280	69,760	55,550	26,640	40,960	13,440	6,764	4,428	2,037	2,909	4,663	9,296	24,160
2011	24,980	22,310	72,560	62,920	20,190	5,026	5,702	4,692	22,510	2,760	5,316	31,040	23,336
2012	48,770	45,650	53,980	14,790	8,580	3,848	6,536	8,737	13,340	10,460	4,811	30,610	20,766
2013	86,390	87,460	58,770	52,610	47,690	15,600	24,480	16,220	5,856	3,954	8,019	35,460	36,639
2014	30,530	56,920	39,800	93,200	30,010	21,580	8,782	4,208	3,792	10,450	9,774	30,370	28,008

Non-Exceedance Percentiles

02469761 - Tombigbee River at Coffeeville Lock and Dam, Ala. (represents streamflow for 03160201)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754	9,521
5th %	11,349	19,679	23,267	13,509	4,653	3,783	4,260	2,729	2,267	1,845	2,727	7,655	14,172
10th %	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535	14,984
15th %	24,622	27,480	32,896	19,070	8,824	5,346	5,395	3,783	3,121	2,902	4,165	12,949	19,314
20th %	29,946	31,404	35,734	21,756	9,709	7,592	5,947	4,066	3,465	3,233	4,781	15,618	20,853
30th %	36,107	40,290	41,377	26,005	12,261	9,111	6,498	4,670	4,011	3,835	6,713	21,091	22,614
40th %	44,190	48,170	49,390	36,016	18,498	10,860	6,735	5,709	5,284	4,532	9,430	24,970	26,603
Median	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490	29,236
60th %	53,426	58,920	60,768	53,254	27,688	14,288	9,771	8,706	7,877	10,454	15,008	35,816	31,165
70th %	59,282	67,303	82,295	62,668	30,825	15,666	11,532	9,619	10,206	11,162	17,582	40,324	34,532
80th %	64,044	71,836	87,756	73,374	44,442	25,168	16,654	11,740	13,352	13,890	28,440	44,514	38,547
90th %	84,671	87,913	97,375	93,764	70,043	43,754	28,904	12,681	22,501	23,507	38,183	67,948	44,105
Maximum	99,910	161,100	123,300	171,600	153,100	68,860	58,070	24,140	40,870	56,230	45,010	100,900	59,115
Average	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067	29,713

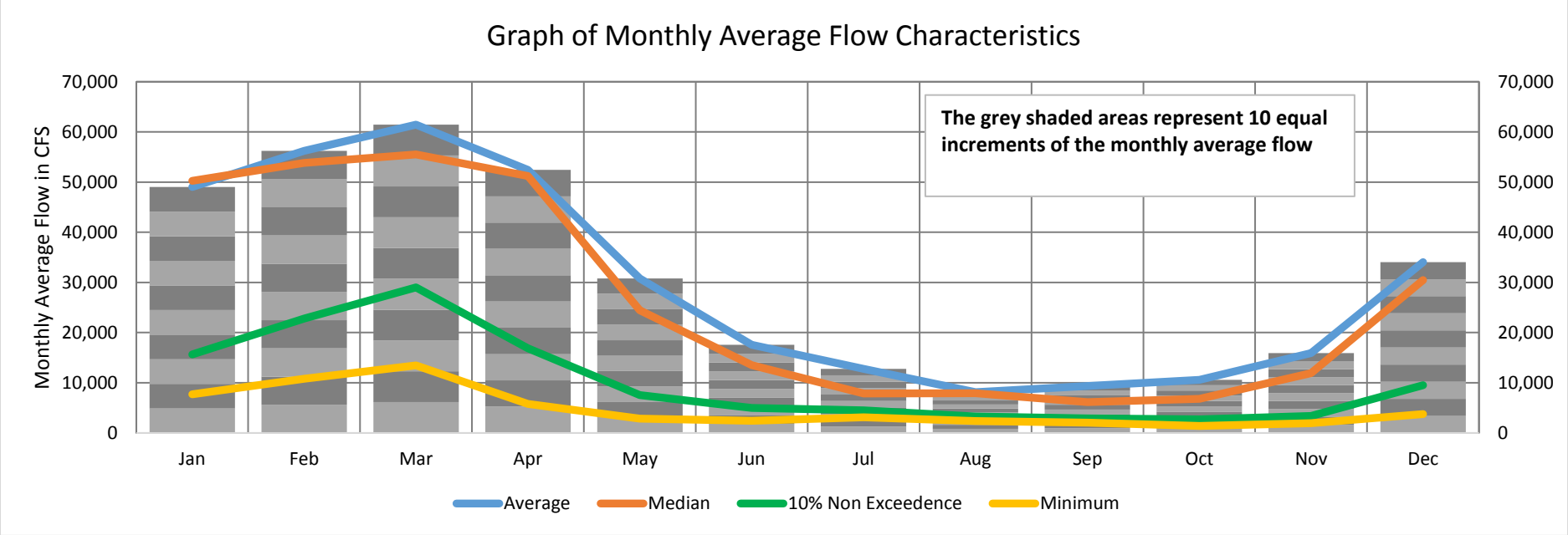
	Flows in CFS
Minimum	1,401.0
5th %	3,122
10th %	4,089
15th %	5,132
20th %	6,467
30th %	9,573
40th %	12,870
Median	18,670
60th %	27,672
70th %	39,569
80th %	52,288
90th %	70,879
Maximum	171,600
Average	29,863



Q10/Q50	0.22
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.08
Q5/DA	0.17
Q10/DA	0.22
Q15/DA	0.28
Q20/DA	0.35
Q30/DA	0.52
Q40/DA	0.70
Q50/DA	1.01
Q60/DA	1.50
Q70/DA	2.15
Q80/DA	2.84
Q90/DA	3.85
Qmax/DA	9.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

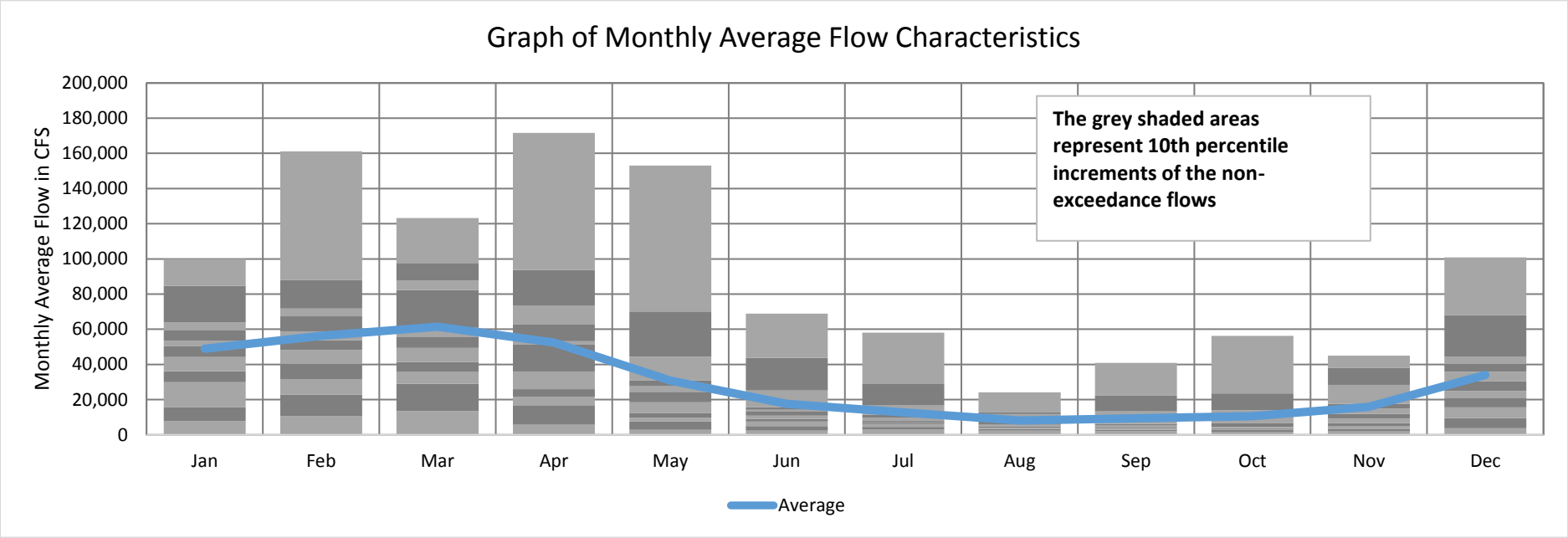
Site #: 02469761 Name: Tombigbee River at Coffeeville Lock and Dam, Ala. (represents streamflow for 03160201)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067
100%	99,910	161,100	123,300	171,600	153,100	68,860	58,070	24,140	40,870	56,230	45,010	100,900
98%	97,710	134,346	118,386	153,114	102,509	57,425	41,768	22,377	34,880	43,446	43,388	92,180
95%	87,552	94,272	115,100	132,225	73,544	49,868	34,054	16,503	24,555	29,894	41,211	75,328
90%	84,671	87,913	97,375	93,764	70,043	43,754	28,904	12,681	22,501	23,507	38,183	67,948
75%	62,225	70,083	85,503	64,905	40,630	18,078	12,753	10,515	11,293	12,683	22,060	41,873
50%	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490
25%	32,413	36,453	39,713	25,325	10,255	8,578	6,293	4,373	3,774	3,682	5,357	18,668
10%	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535
5%	11,349	19,679	23,267	13,509	4,653	3,783	4,260	2,729	2,267	1,845	2,727	7,655
2%	7,720	15,626	15,131	6,756	4,109	2,526	3,221	2,492	2,134	1,484	2,344	5,027
0%	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754

Site #: 02469761 Name: Tombigbee River at Coffeeville Lock and Dam, Ala. (represents streamflow for 03160201)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 18,417 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	49,007	56,247	61,449	52,415	30,815	17,597	12,765	8,134	9,364	10,602	15,895	34,067
100%	99,910	161,100	123,300	171,600	153,100	68,860	58,070	24,140	40,870	56,230	45,010	100,900
98%	97,710	134,346	118,386	153,114	102,509	57,425	41,768	22,377	34,880	43,446	43,388	92,180
95%	87,552	94,272	115,100	132,225	73,544	49,868	34,054	16,503	24,555	29,894	41,211	75,328
90%	84,671	87,913	97,375	93,764	70,043	43,754	28,904	12,681	22,501	23,507	38,183	67,948
75%	62,225	70,083	85,503	64,905	40,630	18,078	12,753	10,515	11,293	12,683	22,060	41,873
50%	50,270	53,830	55,515	51,230	24,440	13,545	7,881	7,943	6,150	6,830	11,925	30,490
25%	32,413	36,453	39,713	25,325	10,255	8,578	6,293	4,373	3,774	3,682	5,357	18,668
10%	15,654	22,787	29,012	16,896	7,545	4,993	4,505	3,296	2,911	2,711	3,395	9,535
5%	11,349	19,679	23,267	13,509	4,653	3,783	4,260	2,729	2,267	1,845	2,727	7,655
2%	7,720	15,626	15,131	6,756	4,109	2,526	3,221	2,492	2,134	1,484	2,344	5,027
0%	7,689	10,790	13,470	5,781	2,866	2,416	3,132	2,353	2,037	1,401	1,973	3,754

Monthly Flows (in CFS) for
02469800 - Satilpa Creek near Coffeeville, Ala.

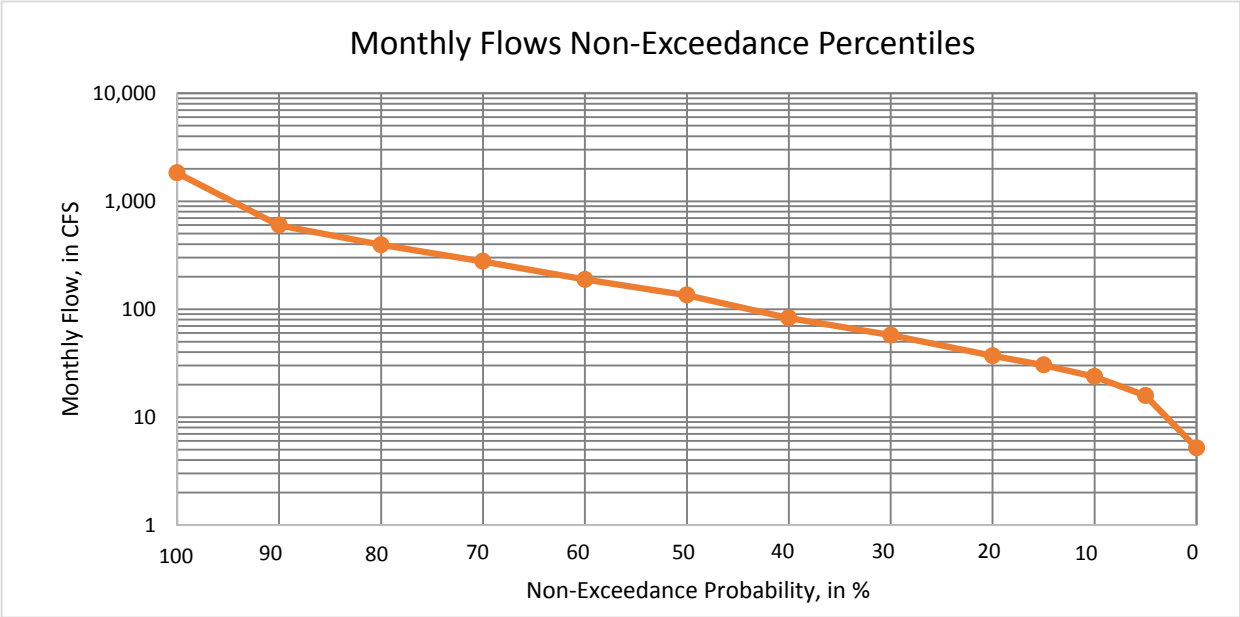
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	890	732	520	458	257	108	70	289	111	402	135	248	350
1976	355	219	1,325	758	315	181	55	51	53	25	154	445	329
1977	592	658	1,031	432	112	29	44	87	106	38	132	156	283
1978	430	302	177	165	554	422	64	69	22	13	26	91	194
1979	479	710	1,137	1,299	217	95	141	31	121	38	135	158	377
1980	290	249	1,124	1,168	1,025	298	130	52	31	34	46	49	375
1981	46	528	277	172	127	172	27	23	18	9	13	57	119
1982	128	556	164	467	173	36	52	85	23	14	64	376	175
1983	379	1,105	975	1,082	529	229	97	54	58	38	242	516	437
1984	394	325	377	265	232	50	60	107	22	80	78	159	179
1985	165	428	246	143	79	25	41	20	49	111	123	212	135
1986	216	311	314	80	73	56	53	16	36	24	283	448	158
1987	566	687	598	176	205	239	102	85	31	14	73	98	237
1988	379	298	188	186	29	11	57	35	153	81	381	193	165
1989	424	166	550	746	257	470	543	80	30	37	135	387	320
1990	1,132	1,074	993	292	226	69	64	21	15	13	27	52	328
1991	381	450	569	277	646	139	87	39	37	16	82	139	238
1992	747	652	249	140	35	71	60	49	31	28	509	629	264
1993	653	311	698	712	228	61	39	38	19	25	155	157	258
1994	233	293	390	278	73	81	489	57	29	36	47	122	177
1995	281	229	437	178	49	79	32	166	13	134	452	620	223
1996	565	435	898	362	91	76	57	133	203	62	78	134	257
1997	340	443	365	348	278	574	330	98	25	163	515	396	321
1998	1,054	730	661	183	53	29	35	32	287	169	46	50	275
1999	604	495	516	136	58	188	66	33	14	39	18	48	183
2000	71	49	173	132	17	13	7	10	7	5	28	95	51
2001	133	120	1,376	249	61	318	36	28	77	74	45	182	226
2002	226	223	292	119	21	30	56	10	64	149	245	577	168
2003	304	341	631	318	242	667	614	199	117	51	72	86	303
2004	147	484	167	67	119	215	125	65	304	111	341	331	204
2005	179	546	420	608	100	246	603	153	82	34	41	140	260
2006	153	448	215	76	110	26	17	18	13	23	105	271	121
2007	527	207	172	261	28	37	43	11	18	37	25	39	117
2008	154	271	223	182	65	19	12	244	57	16	65	172	122
2009	228	116	908	528	713	138	32	78	273	107	287	1,276	393
2010	603	840	400	137	294	56	29	22	8	8	26	54	203
2011	72	192	692	197	35	20	24	13	30	8	23	60	114
2012	93	287	364	70	26	37	57	110	133	83	36	259	129
2013	442	1,823	382	520	295	109	238	210	59	40	65	341	367
2014	195	628	486	710	248	103	42	24	17	23	19	69	210

Non-Exceedance Percentiles

02469800 - Satilpa Creek near Coffeeville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	46	49	164	67	17	11	7	10	7	5	13	39	51
5th %	72	120	172	75	26	19	17	11	13	8	19	49	117
10th %	124	189	176	115	28	24	26	16	14	13	24	52	121
15th %	144	217	211	136	35	29	31	20	16	14	26	57	128
20th %	153	228	241	140	52	30	34	21	18	15	28	67	154
30th %	209	291	307	175	71	46	42	30	22	24	45	97	177
40th %	262	311	380	185	96	66	53	37	30	31	64	140	199
Median	347	432	429	263	123	80	57	52	34	37	75	159	225
60th %	386	464	532	302	221	109	62	67	55	38	112	201	257
70th %	453	549	640	440	244	175	75	85	68	65	135	289	277
80th %	571	664	900	544	281	231	126	107	112	88	242	389	323
90th %	663	742	1,040	747	532	329	346	169	158	136	345	522	368
Maximum	1,132	1,823	1,376	1,299	1,025	667	614	289	304	402	515	1,276	437
Average	381	474	542	367	207	146	118	74	70	60	134	247	234

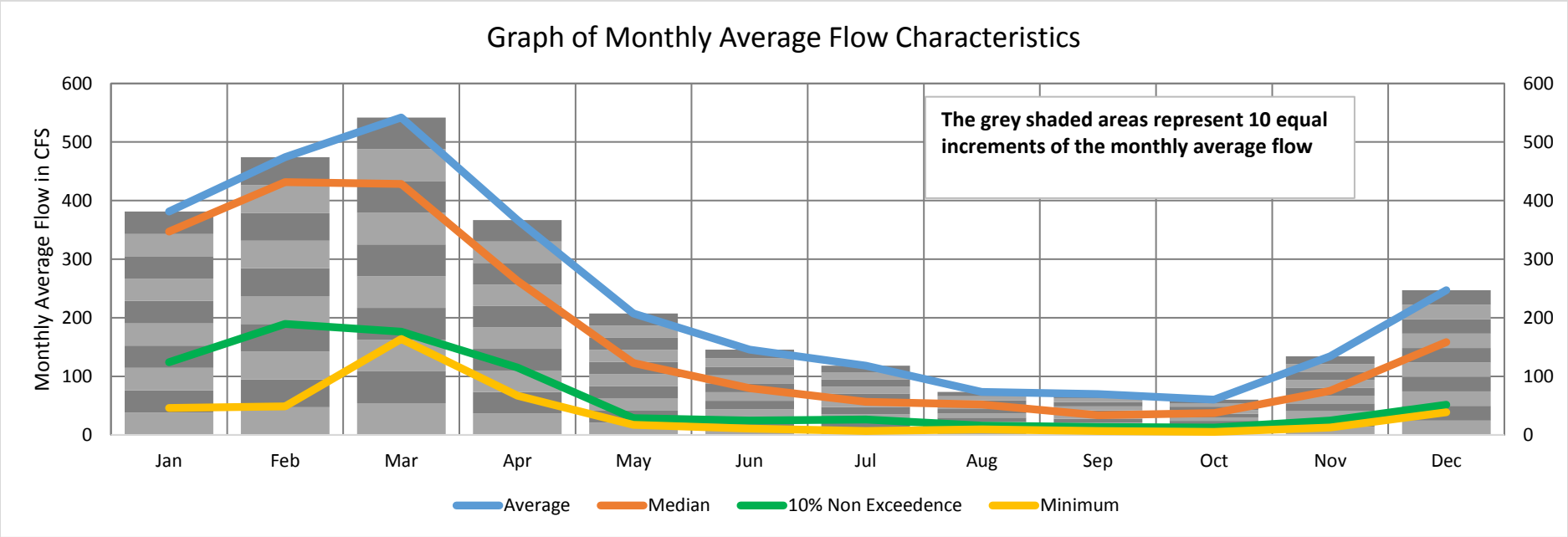
	Flows in CFS
Minimum	5.2
5th %	16
10th %	24
15th %	30
20th %	37
30th %	57
40th %	83
Median	135
60th %	188
70th %	277
80th %	395
90th %	599
Maximum	1,823
Average	235



Q10/Q50	0.18
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.03
Q5/DA	0.10
Q10/DA	0.14
Q15/DA	0.18
Q20/DA	0.22
Q30/DA	0.35
Q40/DA	0.50
Q50/DA	0.82
Q60/DA	1.15
Q70/DA	1.69
Q80/DA	2.41
Q90/DA	3.65
Qmax/DA	11.12

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

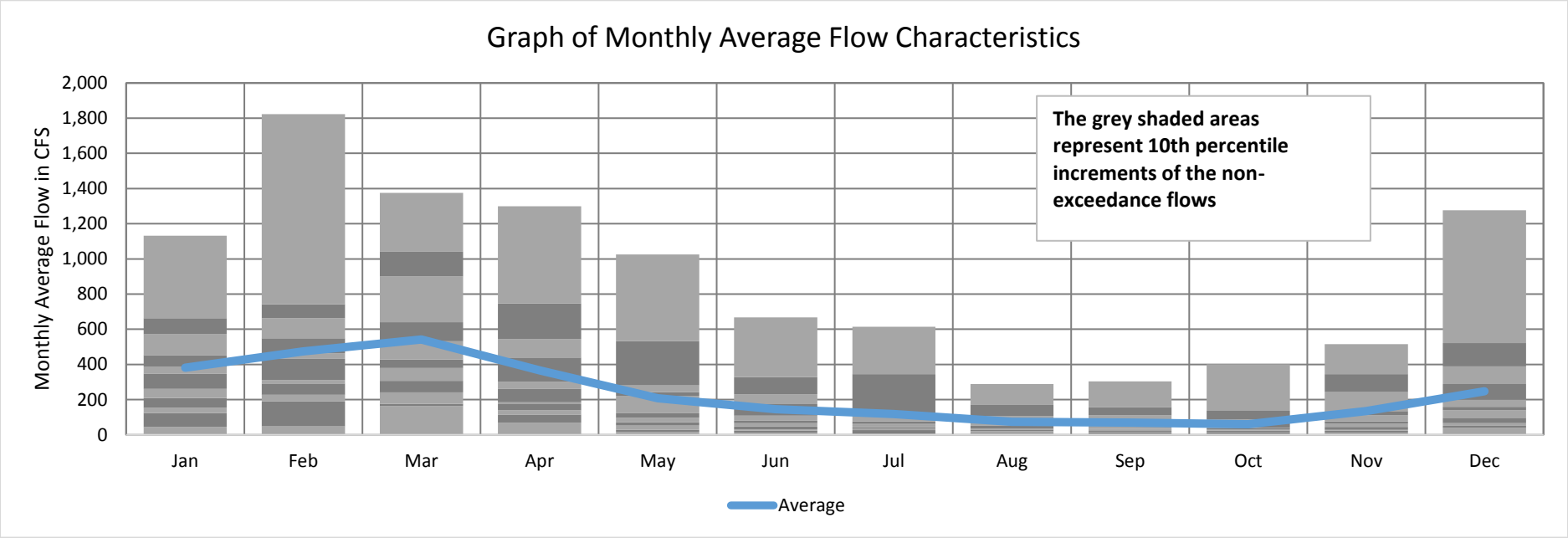
Site #: 02469800 Name: Satilpa Creek near Coffeeville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	381	474	542	367	207	146	118	74	70	60	134	247
100%	1,132	1,823	1,376	1,299	1,025	667	614	289	304	402	515	1,276
98%	1,071	1,263	1,336	1,197	781	595	605	254	291	220	510	772
95%	898	1,076	1,146	1,086	650	475	546	212	274	163	455	620
90%	663	742	1,040	747	532	329	346	169	158	136	345	522
75%	537	634	693	480	257	195	98	89	88	80	154	350
50%	347	432	429	263	123	80	57	52	34	37	75	159
25%	176	265	270	160	60	36	38	24	21	21	39	90
10%	124	189	176	115	28	24	26	16	14	13	24	52
5%	72	120	172	75	26	19	17	11	13	8.1	19	49
2%	66	101	166	70	20	12	11	9.8	7.8	7.1	17	46
0%	46	49	164	67	17	11	6.8	9.6	6.7	5.2	13	39

Site #: 02469800 Name: Satilpa Creek near Coffeeville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 164 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	381	474	542	367	207	146	118	74	70	60	134	247
100%	1,132	1,823	1,376	1,299	1,025	667	614	289	304	402	515	1,276
98%	1,071	1,263	1,336	1,197	781	595	605	254	291	220	510	772
95%	898	1,076	1,146	1,086	650	475	546	212	274	163	455	620
90%	663	742	1,040	747	532	329	346	169	158	136	345	522
75%	537	634	693	480	257	195	98	89	88	80	154	350
50%	347	432	429	263	123	80	57	52	34	37	75	159
25%	176	265	270	160	60	36	38	24	21	21	39	90
10%	124	189	176	115	28	24	26	16	14	13	24	52
5%	72	120	172	75	26	19	17	11	13	8.1	19	49
2%	66	101	166	70	20	12	11	9.8	7.8	7.1	17	46
0%	46	49	164	67	17	11	6.8	9.6	6.7	5.2	13	39

Monthly Flows (in CFS) for
02470100 - Bassett Creek at Walker Springs, Ala.

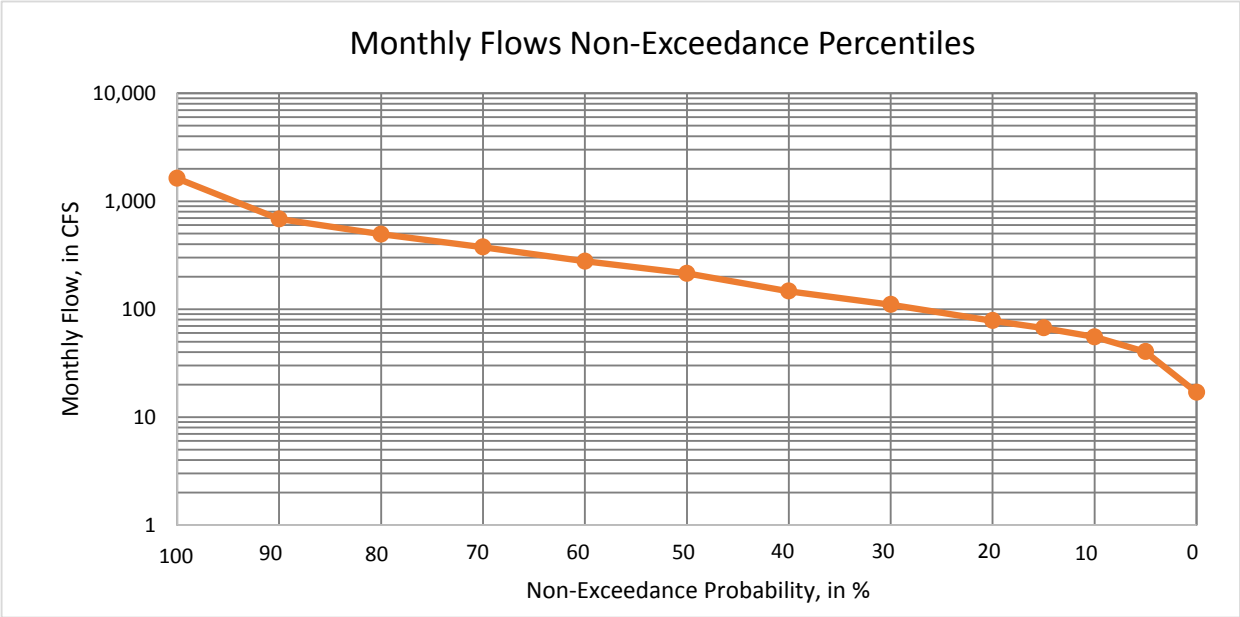
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	929	798	612	554	354	181	128	387	183	501	215	344	431
1976	455	312	1,267	820	414	269	106	101	104	57	237	542	391
1977	677	735	1,042	530	185	65	89	152	177	80	210	239	346
1978	527	401	264	251	643	520	120	127	51	34	59	157	262
1979	574	779	1,125	1,248	310	163	221	67	197	79	214	243	432
1980	388	345	1,115	1,149	1,038	397	208	103	67	73	92	98	423
1981	92	619	375	258	204	259	60	53	44	27	34	110	175
1982	205	645	249	563	260	77	102	150	54	38	120	476	242
1983	478	1,100	998	1,082	620	323	166	105	111	79	337	608	496
1984	493	425	476	362	327	99	114	178	52	142	140	243	254
1985	251	526	341	224	141	58	84	49	97	184	199	304	203
1986	308	410	413	142	133	109	104	41	76	56	381	545	225
1987	654	760	682	264	296	334	172	149	67	36	133	166	307
1988	479	397	277	275	64	30	109	74	236	143	480	283	236
1989	522	252	639	810	353	565	632	142	67	78	215	487	398
1990	1,121	1,076	1,012	390	320	127	119	50	38	35	62	102	368
1991	481	547	657	374	725	219	153	82	78	40	145	219	309
1992	811	730	345	221	76	130	114	97	69	62	602	710	328
1993	731	410	769	781	322	115	82	80	47	58	238	241	322
1994	327	391	490	376	133	143	583	110	64	76	94	197	248
1995	379	324	535	266	97	142	70	251	34	214	549	701	297
1996	653	533	936	462	157	138	109	212	295	117	139	214	329
1997	439	540	465	448	376	661	429	167	57	248	607	495	410
1998	1,060	797	738	271	103	65	74	70	385	255	93	99	332
1999	688	589	608	216	111	278	123	72	36	81	45	96	244
2000	131	97	260	210	43	34	21	27	21	17	63	162	91
2001	211	196	1,305	345	115	418	77	63	139	134	92	270	281
2002	320	317	391	194	50	67	108	28	119	231	340	663	236
2003	403	440	711	417	337	743	696	290	192	101	132	151	384
2004	228	579	253	125	194	308	202	121	403	185	441	430	286
2005	267	636	518	691	170	341	687	236	145	73	84	220	337
2006	237	545	308	136	182	60	43	45	35	53	176	368	180
2007	618	298	259	358	64	78	88	30	45	79	57	81	171
2008	237	369	316	270	121	46	33	339	110	40	121	258	187
2009	323	190	944	620	782	218	69	139	371	179	385	1,230	457
2010	687	889	499	217	392	107	65	51	24	23	60	105	256
2011	131	282	764	287	74	48	55	35	67	24	55	113	161
2012	160	386	463	129	60	78	109	183	211	147	77	355	196
2013	539	1,624	481	612	394	181	333	303	112	83	121	441	428
2014	286	709	581	779	344	174	86	56	42	54	47	127	270

Non-Exceedance Percentiles

02470100 - Bassett Creek at Walker Springs, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	92	97	249	125	43	30	21	27	21	17	34	81	91
5th %	131	196	259	136	60	46	42	30	34	24	47	98	170
10th %	201	279	264	189	64	57	60	40	36	34	57	102	180
15th %	226	310	303	215	75	64	69	48	42	36	60	109	195
20th %	237	322	336	220	102	67	74	51	45	39	63	124	221
30th %	302	390	406	262	129	93	86	66	53	55	92	165	243
40th %	358	410	479	274	165	123	103	77	67	68	121	220	260
Median	447	529	526	360	199	143	109	102	73	79	136	243	292
60th %	486	560	623	401	314	181	116	124	106	81	185	292	325
70th %	550	638	719	537	339	262	135	149	125	122	215	387	340
80th %	659	740	938	634	379	325	203	179	185	154	338	488	393
90th %	739	807	1,050	811	623	428	445	255	242	215	445	613	428
Maximum	1,121	1,624	1,305	1,248	1,038	743	696	387	403	501	607	1,230	496
Average	463	550	612	443	277	209	174	125	118	105	197	322	298

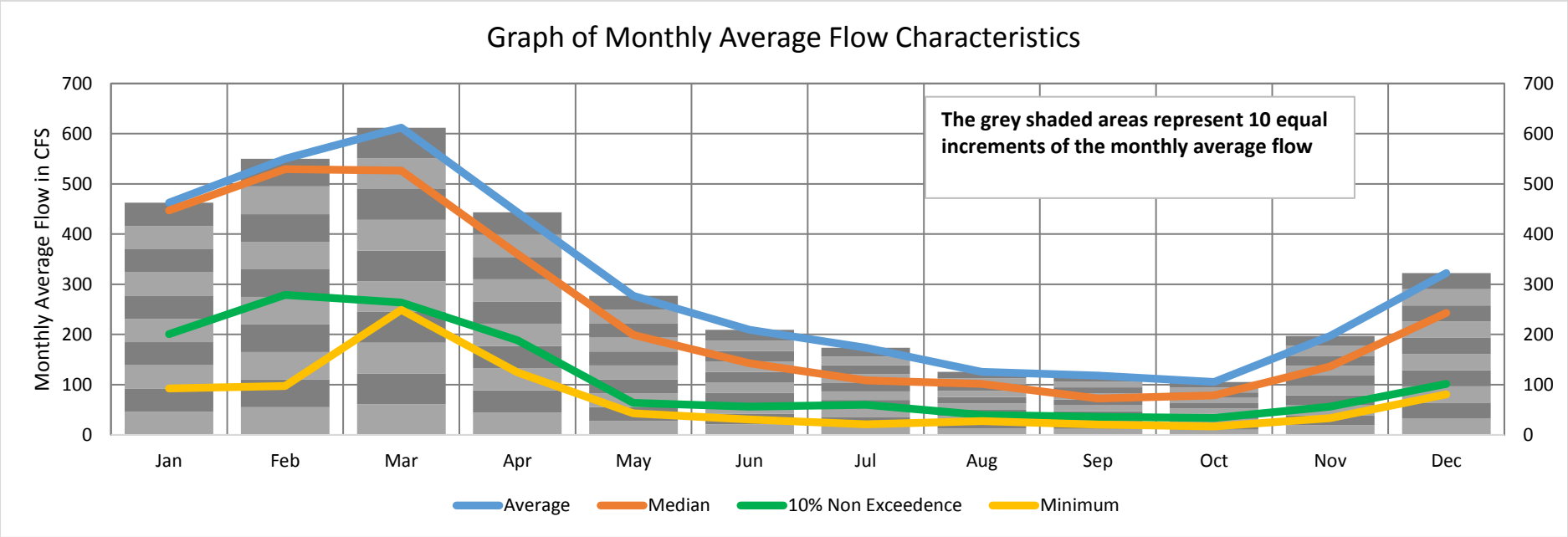
	Flows in CFS
Minimum	16.9
5th %	40
10th %	55
15th %	67
20th %	78
30th %	110
40th %	146
Median	214
60th %	277
70th %	375
80th %	494
90th %	683
Maximum	1,624
Average	300



Q10/Q50	0.26
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.09
Q5/DA	0.21
Q10/DA	0.28
Q15/DA	0.34
Q20/DA	0.40
Q30/DA	0.56
Q40/DA	0.75
Q50/DA	1.10
Q60/DA	1.42
Q70/DA	1.92
Q80/DA	2.53
Q90/DA	3.50
Qmax/DA	8.33

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

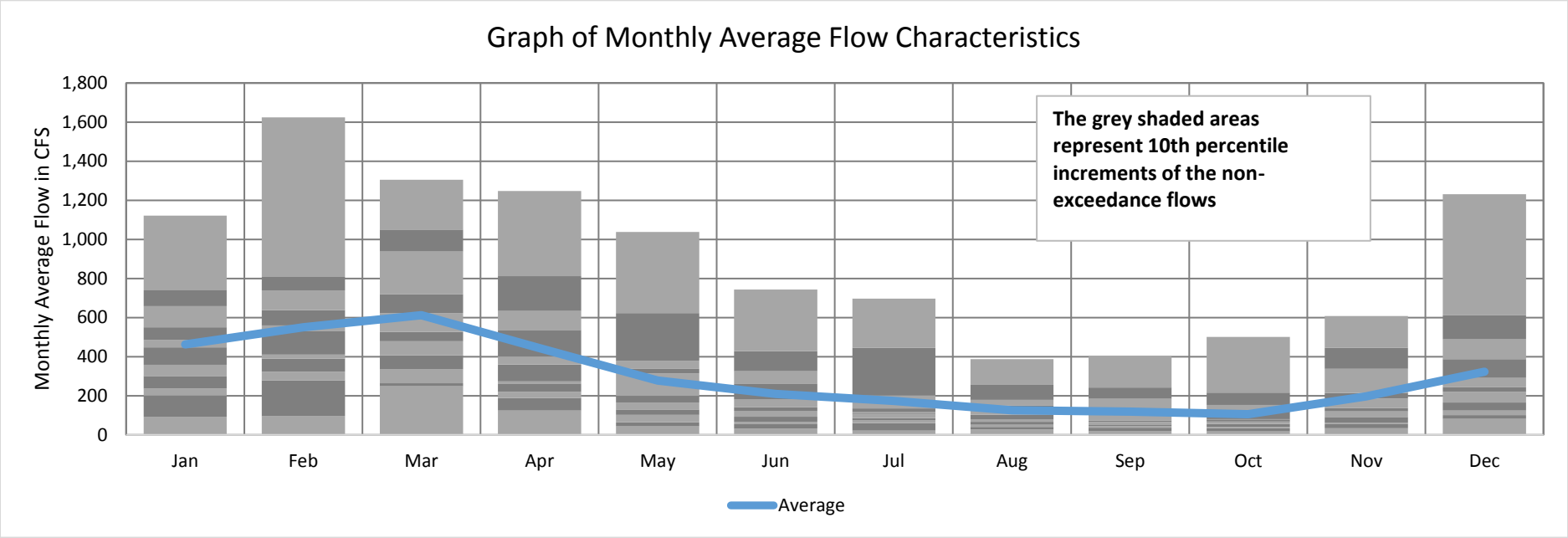
Site #: 02470100 Name: Bassett Creek at Walker Springs, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	463	550	612	443	277	209	174	125	118	105	197	322
100%	1,121	1,624	1,305	1,248	1,038	743	696	387	403	501	607	1,230
98%	1,074	1,215	1,275	1,170	838	679	689	350	389	309	603	824
95%	936	1,077	1,132	1,086	728	570	635	304	372	248	552	702
90%	739	807	1,050	811	623	428	445	255	242	215	445	613
75%	627	714	765	575	353	285	167	155	153	143	238	450
50%	447	529	526	360	199	143	109	102	73	79	136	243
25%	263	363	368	244	114	77	81	55	50	50	82	156
10%	201	279	264	189	64	57	60	40	36	34	57	102
5%	131	196	259	136	60	46	42	30	34	24	47	98
2%	122	170	252	128	48	33	30	28	23	22	42	93
0%	92	97	249	125	43	30	21	27	21	17	34	81

Site #: 02470100 Name: Bassett Creek at Walker Springs, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 195 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	463	550	612	443	277	209	174	125	118	105	197	322
100%	1,121	1,624	1,305	1,248	1,038	743	696	387	403	501	607	1,230
98%	1,074	1,215	1,275	1,170	838	679	689	350	389	309	603	824
95%	936	1,077	1,132	1,086	728	570	635	304	372	248	552	702
90%	739	807	1,050	811	623	428	445	255	242	215	445	613
75%	627	714	765	575	353	285	167	155	153	143	238	450
50%	447	529	526	360	199	143	109	102	73	79	136	243
25%	263	363	368	244	114	77	81	55	50	50	82	156
10%	201	279	264	189	64	57	60	40	36	34	57	102
5%	131	196	259	136	60	46	42	30	34	24	47	98
2%	122	170	252	128	48	33	30	28	23	22	42	93
0%	92	97	249	125	43	30	21	27	21	17	34	81

Monthly Flows (in CFS) for

02470629 - Mobile River at River Mile 31 at Bucks, Ala. (represents streamflow for 03160204)

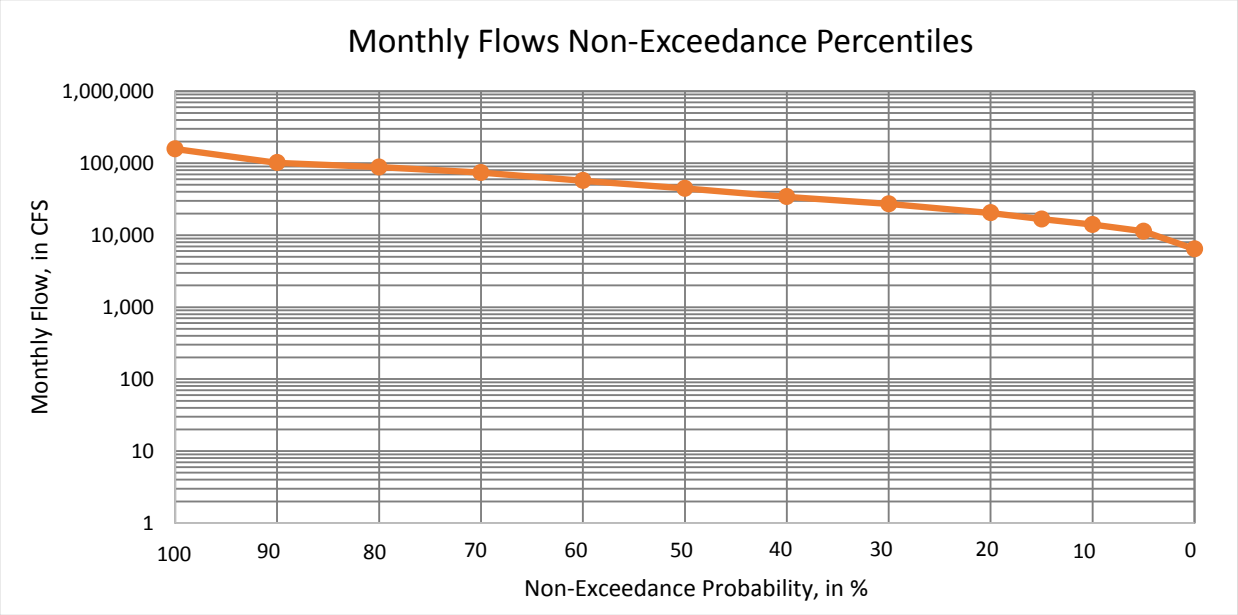
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	118,803	124,564	121,968	112,243	58,790	44,358	44,894	60,420	43,124	110,053	90,507	97,217	85,401
1976	107,574	70,370	87,090	86,849	68,565	38,190	61,946	33,838	42,406	57,849	54,666	94,366	67,073
1977	97,357	69,398	90,936	89,137	27,315	24,458	14,534	20,653	40,944	70,280	66,641	105,916	59,768
1978	111,004	56,913	51,625	34,014	62,688	40,464	41,589	51,219	52,580	52,686	39,513	54,958	54,218
1979	64,846	90,128	101,058	109,556	49,838	35,579	28,256	20,643	32,851	80,429	81,223	93,111	65,434
1980	87,966	81,638	139,767	157,665	101,254	37,150	22,724	15,861	14,007	26,746	32,571	33,554	62,443
1981	20,473	75,390	56,508	82,860	20,850	29,773	15,456	13,106	15,536	11,238	11,594	32,612	31,730
1982	94,326	107,280	74,948	91,173	55,740	32,216	28,986	29,415	13,161	17,987	28,148	115,443	57,170
1983	91,584	131,099	125,681	140,715	103,524	66,549	32,119	17,106	21,806	16,392	50,123	125,674	76,496
1984	103,086	74,119	88,539	89,627	96,409	26,608	26,015	52,848	17,621	27,990	32,868	55,436	57,636
1985	37,440	105,827	54,538	37,313	47,679	20,476	32,341	34,563	17,573	29,684	31,810	44,030	40,731
1986	28,996	47,623	61,074	17,781	20,206	26,279	12,974	11,730	11,005	13,402	58,445	76,118	32,050
1987	93,227	91,999	111,080	46,923	28,071	31,120	25,021	14,469	12,794	9,651	12,053	22,312	41,319
1988	57,044	58,668	35,921	43,760	15,326	11,419	15,621	10,793	34,872	27,269	51,235	39,565	33,230
1989	100,783	70,045	110,508	89,077	47,631	89,977	92,823	26,944	26,465	52,457	60,314	76,387	70,328
1990	122,749	154,844	141,875	63,496	50,012	29,892	21,085	15,393	12,153	13,865	17,488	59,256	58,021
1991	70,242	94,560	102,490	105,337	137,332	74,045	34,687	22,423	22,449	16,105	31,643	63,215	64,365
1992	73,061	83,663	76,799	46,367	18,490	33,573	23,284	33,250	35,049	19,889	84,178	96,071	51,736
1993	119,182	83,735	86,488	76,166	52,802	23,049	20,395	22,069	16,190	12,803	29,425	39,281	48,310
1994	64,360	108,349	94,709	103,715	30,257	32,887	67,876	32,511	27,027	40,490	34,149	76,686	59,125
1995	66,734	93,559	118,148	67,876	38,253	22,143	17,653	19,554	11,319	61,598	73,646	79,135	55,623
1996	87,987	110,210	107,543	74,534	36,170	29,544	27,064	28,132	29,565	23,613	38,889	69,558	54,915
1997	92,899	95,998	102,379	57,983	71,784	92,254	54,689	30,198	18,410	33,450	46,678	70,319	63,767
1998	116,180	113,816	113,590	81,399	42,011	27,098	25,902	24,403	21,203	23,241	18,759	41,223	53,764
1999	80,210	98,923	78,983	44,710	34,881	36,739	48,204	13,111	10,441	13,820	12,944	19,518	40,727
2000	35,403	27,676	61,473	92,295	18,776	13,998	10,740	10,332	9,588	8,238	23,418	32,773	28,667
2001	61,130	80,692	133,800	88,776	26,065	52,164	25,504	23,950	42,440	34,542	23,367	78,047	55,715
2002	76,757	75,589	67,307	54,666	49,957	16,561	20,165	14,100	28,625	45,052	75,244	95,511	51,517
2003	59,263	97,478	107,070	84,685	117,377	79,158	80,932	55,629	31,917	21,975	39,909	48,453	68,524
2004	57,968	109,256	64,711	32,273	30,030	42,174	43,183	21,346	49,831	34,083	81,570	103,282	55,417
2005	57,634	84,233	81,728	104,177	40,971	68,221	81,018	40,507	37,504	16,397	16,683	45,900	56,013
2006	65,520	101,400	93,280	43,270	47,070	12,661	10,070	9,894	9,648	17,432	45,670	33,220	40,405
2007	86,650	46,140	32,460	19,839	9,137	8,398	9,847	6,749	6,408	11,840	9,782	10,706	21,408
2008	21,415	93,640	65,100	50,030	43,760	18,121	8,560	26,720	18,232	10,842	12,042	73,800	36,523
2009	91,140	34,300	110,850	90,330	93,430	39,790	16,057	21,883	56,100	93,660	89,240	92,640	69,407
2010	89,110	94,540	88,810	50,570	70,750	33,070	16,373	12,843	8,361	9,849	15,340	24,690	42,610
2011	40,540	47,060	89,270	87,000	38,380	13,360	15,831	11,386	30,350	10,007	19,260	57,569	38,272
2012	76,339	82,190	83,090	34,100	19,945	14,406	14,305	20,452	30,807	21,346	14,634	54,749	38,676
2013	101,530	120,828	88,248	86,350	84,910	39,662	61,277	34,915	19,438	15,268	50,075	75,257	64,527
2014	85,854	92,271	76,390	98,410	68,452	46,217	23,579	12,055	11,644	23,305	25,685	45,211	50,473

Non-Exceedance Percentiles

02470629 - Mobile River at River Mile 31 at Bucks, Ala. (represents streamflow for 03160204)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706	21,408
5th %	28,617	45,548	50,840	31,652	18,332	12,599	10,059	10,310	9,526	9,839	12,020	22,172	31,577
10th %	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819	33,112
15th %	54,568	58,405	61,413	42,376	20,753	16,238	14,500	12,007	11,272	11,750	15,234	33,153	38,010
20th %	57,901	69,915	65,022	44,520	27,065	20,005	15,588	13,053	12,051	13,282	17,327	38,135	40,059
30th %	64,700	75,529	76,676	50,408	33,494	25,733	17,269	15,116	15,078	15,854	23,402	44,857	42,222
40th %	71,933	83,074	85,129	66,124	39,934	29,681	22,069	20,093	17,988	17,765	30,756	54,874	51,649
Median	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236	55,166
60th %	88,436	94,000	93,852	86,909	49,979	36,043	27,541	24,131	27,667	26,955	42,214	74,383	56,476
70th %	92,997	97,912	103,864	89,284	59,959	39,700	33,045	28,517	31,140	33,640	50,456	77,094	59,318
80th %	100,932	107,494	110,896	93,518	70,957	44,730	45,556	33,367	35,540	46,533	61,580	93,362	64,398
90th %	111,521	114,518	122,339	105,759	96,894	68,804	62,539	41,579	42,509	62,467	81,258	97,823	68,612
Maximum	122,749	154,844	141,875	157,665	137,332	92,254	92,823	60,420	56,100	110,053	90,507	125,674	85,401
Average	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819	52,588

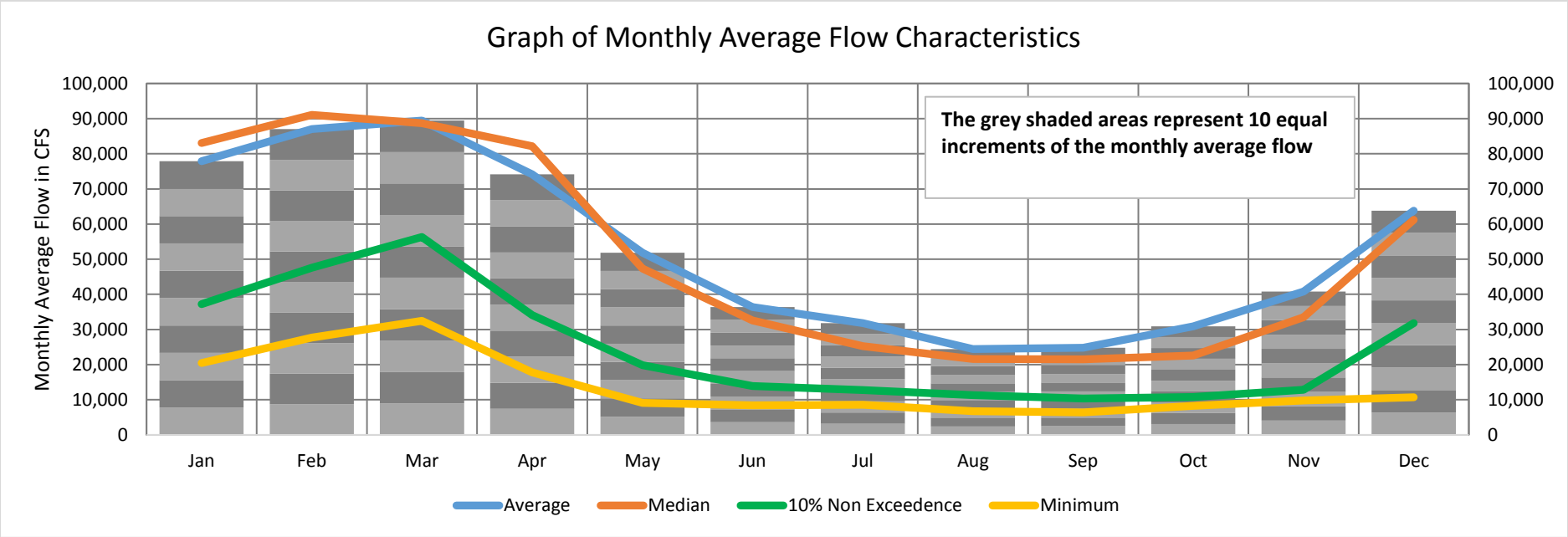
	Flows in CFS
Minimum	6,408.0
5th %	11,315
10th %	13,984
15th %	16,665
20th %	20,357
30th %	27,217
40th %	34,093
Median	44,534
60th %	57,254
70th %	74,067
80th %	88,306
90th %	101,269
Maximum	157,665
Average	52,774



Q10/Q50	0.31
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.15
Q5/DA	0.26
Q10/DA	0.33
Q15/DA	0.39
Q20/DA	0.47
Q30/DA	0.63
Q40/DA	0.79
Q50/DA	1.04
Q60/DA	1.33
Q70/DA	1.72
Q80/DA	2.05
Q90/DA	2.36
Qmax/DA	3.67

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

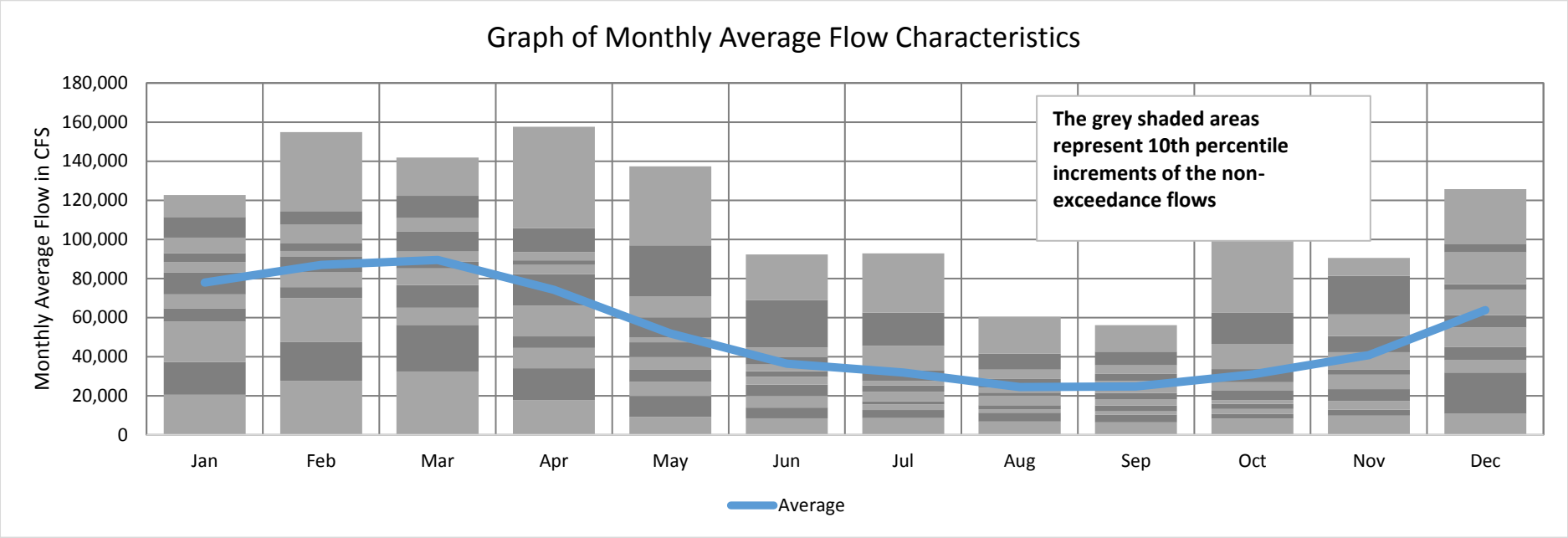
Site #: 02470629 Name: Mobile River at River Mile 31 at Bucks, Ala. (represents streamflow for 03160204)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819
100%	122,749	154,844	141,875	157,665	137,332	92,254	92,823	60,420	56,100	110,053	90,507	125,674
98%	119,967	136,323	140,231	144,444	121,767	90,478	83,615	56,683	53,354	97,266	89,519	117,694
95%	118,822	124,891	134,099	113,666	104,216	79,699	80,936	52,987	49,968	81,090	84,431	106,393
90%	111,521	114,518	122,339	105,759	96,894	68,804	62,539	41,579	42,509	62,467	81,258	97,823
75%	95,084	102,507	108,284	90,541	68,480	40,891	41,988	30,776	33,356	36,029	55,611	82,511
50%	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236
25%	60,663	73,182	73,037	46,784	29,540	22,823	16,001	13,853	13,070	13,854	19,135	40,808
10%	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819
5%	28,617	45,548	50,840	31,652	18,332	12,599	10,059	10,310	9,526	9,839	12,020	22,172
2%	21,208	32,843	35,160	19,386	13,964	10,754	9,564	9,202	7,931	9,340	11,196	17,580
0%	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706

Site #: 02470629 Name: Mobile River at River Mile 31 at Bucks, Ala. (represents streamflow for 03160204)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 43,000 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	77,859	87,000	89,446	74,176	51,872	36,345	31,839	24,435	24,786	30,920	40,786	63,819
100%	122,749	154,844	141,875	157,665	137,332	92,254	92,823	60,420	56,100	110,053	90,507	125,674
98%	119,967	136,323	140,231	144,444	121,767	90,478	83,615	56,683	53,354	97,266	89,519	117,694
95%	118,822	124,891	134,099	113,666	104,216	79,699	80,936	52,987	49,968	81,090	84,431	106,393
90%	111,521	114,518	122,339	105,759	96,894	68,804	62,539	41,579	42,509	62,467	81,258	97,823
75%	95,084	102,507	108,284	90,541	68,480	40,891	41,988	30,776	33,356	36,029	55,611	82,511
50%	83,032	91,063	88,674	82,130	47,350	32,552	25,262	21,615	21,504	22,608	33,509	61,236
25%	60,663	73,182	73,037	46,784	29,540	22,823	16,001	13,853	13,070	13,854	19,135	40,808
10%	37,237	47,566	56,311	34,091	19,828	13,934	12,751	11,327	10,362	10,759	12,855	31,819
5%	28,617	45,548	50,840	31,652	18,332	12,599	10,059	10,310	9,526	9,839	12,020	22,172
2%	21,208	32,843	35,160	19,386	13,964	10,754	9,564	9,202	7,931	9,340	11,196	17,580
0%	20,473	27,676	32,460	17,781	9,137	8,398	8,560	6,749	6,408	8,238	9,782	10,706

Monthly Flows (in CFS) for
02471001 - Chickasaw Creek near Kushla, Ala.

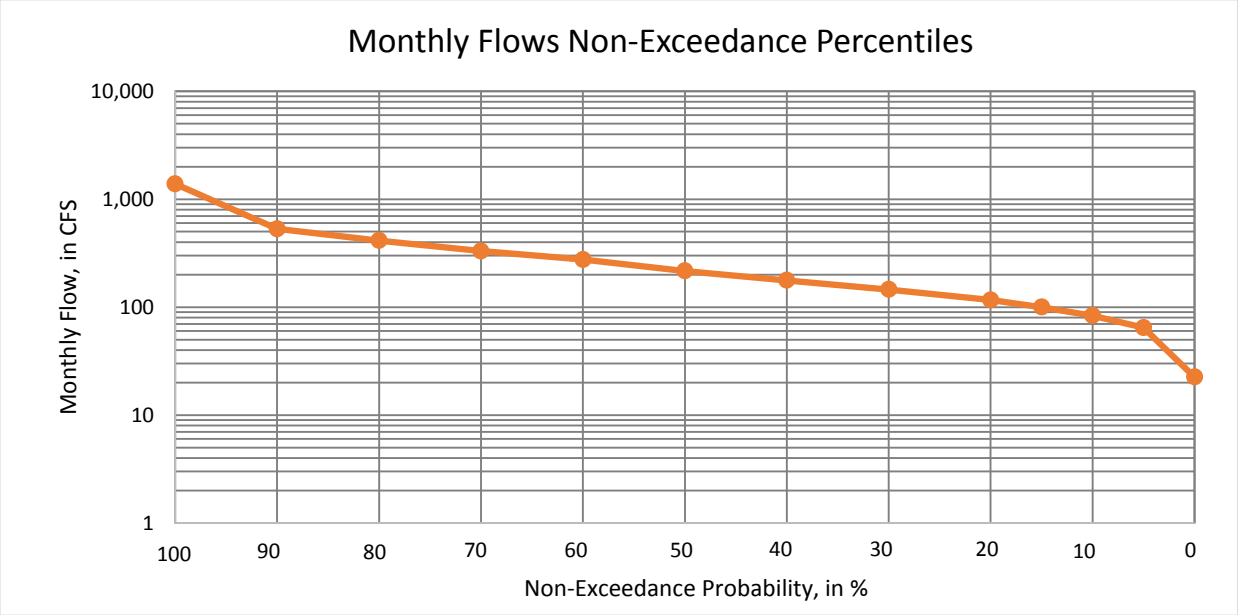
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	331	589	536	499	703	290	242	941	337	742	469	362	504
1976	313	314	270	184	229	203	147	81	100	94	196	260	199
1977	318	220	350	352	197	123	90	217	274	153	413	337	253
1978	584	371	328	301	405	285	199	176	119	78	77	129	254
1979	323	693	830	362	160	187	464	211	497	167	401	378	387
1980	459	284	1,023	1,385	973	353	214	169	129	259	203	168	469
1981	131	676	252	176	387	140	111	79	65	54	72	146	187
1982	249	507	224	186	102	160	440	331	148	86	147	334	242
1983	373	708	655	1,304	360	310	167	179	239	113	181	509	422
1984	488	473	465	326	299	147	125	374	93	118	115	169	265
1985	272	418	300	153	122	108	221	174	446	511	373	412	292
1986	313	528	392	216	137	144	90	96	83	92	194	278	211
1987	378	440	499	221	215	230	150	186	106	60	154	161	232
1988	272	402	467	326	82	61	145	175	560	259	157	131	252
1989	130	137	252	140	222	326	320	87	60	95	398	360	211
1990	552	679	1,082	501	466	213	124	108	62	63	72	138	337
1991	661	477	451	280	1,156	319	369	202	140	84	167	152	372
1992	479	691	306	137	75	92	83	100	97	60	367	428	240
1993	549	342	460	347	508	253	275	180	143	117	166	197	295
1994	267	210	259	285	131	247	240	85	78	106	94	181	182
1995	291	338	427	503	577	199	173	421	102	333	337	746	372
1996	530	522	548	620	248	214	191	185	165	97	101	272	306
1997	797	769	355	275	270	532	769	283	102	204	367	420	427
1998	986	481	580	308	163	107	212	166	1,255	596	267	198	442
1999	304	192	351	151	86	229	154	74	73	124	70	114	160
2000	120	84	146	78	36	39	34	44	67	23	218	158	87
2001	206	164	505	115	48	141	129	222	128	95	58	119	161
2002	139	139	247	112	46	58	138	78	495	331	324	474	215
2003	388	371	516	276	208	548	618	351	179	135	143	178	326
2004	178	453	191	186	305	494	306	174	368	152	322	293	283
2005	213	314	231	849	250	346	636	489	340	155	153	192	347
2006	198	252	133	108	125	49	60	65	64	113	436	289	157
2007	397	217	99	142	63	155	167	72	103	344	186	323	189
2008	370	642	287	442	279	82	87	324	639	127	123	187	296
2009	184	137	563	516	381	120	101	159	298	197	250	897	319
2010	675	736	413	179	462	166	216	319	91	80	176	130	302
2011	224	268	261	103	45	55	176	43	258	51	69	82	135
2012	129	423	309	139	242	301	159	423	323	148	88	159	236
2013	163	642	223	279	305	134	270	296	214	108	117	341	255
2014	250	438	496	823	696	322	205	113	123	98	83	159	316

Non-Exceedance Percentiles

02471001 - Chickasaw Creek near Kushla, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	120	84	99	78	36	39	34	43	60	23	58	82	87
5th %	130	137	145	108	46	54	82	64	64	53	70	118	156
10th %	138	161	220	115	62	61	89	74	67	60	72	130	161
15th %	175	207	230	138	81	91	99	79	77	76	82	137	187
20th %	195	219	251	142	99	108	122	84	90	83	93	151	197
30th %	241	305	267	178	135	138	143	105	102	94	121	160	227
40th %	272	359	308	204	204	152	157	167	113	103	153	180	248
Median	313	421	353	278	236	193	174	175	134	115	171	198	260
60th %	346	461	437	304	274	220	208	185	171	130	195	283	295
70th %	390	512	476	349	322	262	227	219	262	153	255	335	317
80th %	497	642	520	499	416	312	281	320	338	215	343	365	352
90th %	592	691	588	641	589	346	443	379	495	334	398	433	422
Maximum	986	769	1,082	1,385	1,156	548	769	941	1,255	742	469	897	504
Average	355	418	407	347	294	212	225	211	229	170	208	274	278

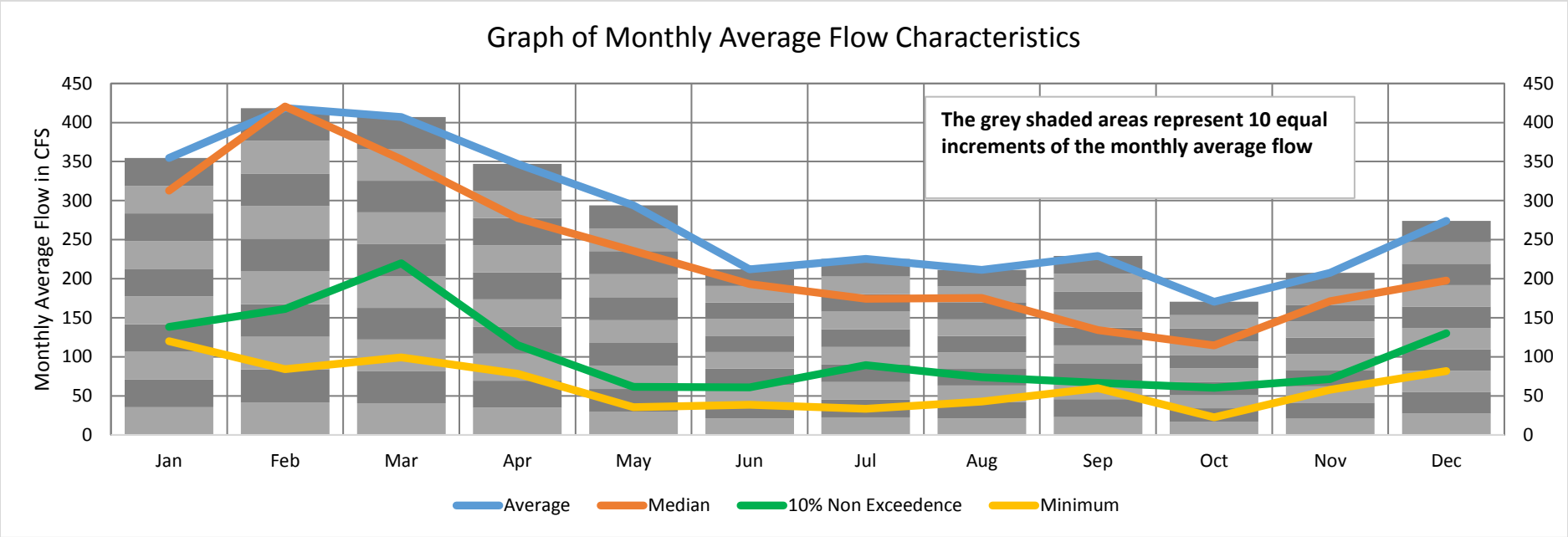
	Flows in CFS
Minimum	22.5
5th %	64
10th %	83
15th %	100
20th %	116
30th %	146
40th %	177
Median	216
60th %	276
70th %	331
80th %	414
90th %	530
Maximum	1,385
Average	279



Q10/Q50	0.39
Q10/Q90	0.16
	CFSM*
Qmin/DA	0.18
Q5/DA	0.52
Q10/DA	0.67
Q15/DA	0.80
Q20/DA	0.93
Q30/DA	1.17
Q40/DA	1.42
Q50/DA	1.73
Q60/DA	2.20
Q70/DA	2.64
Q80/DA	3.31
Q90/DA	4.24
Qmax/DA	11.08

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

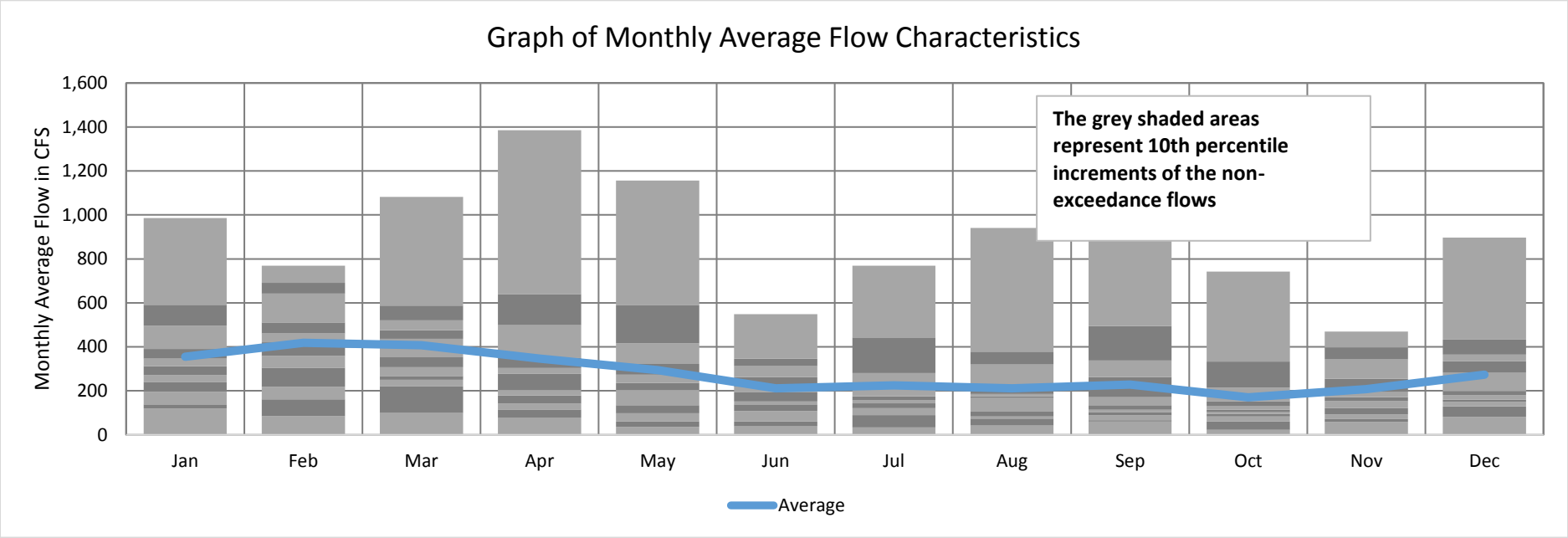
Site #: 02471001 Name: Chickasaw Creek near Kushla, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	355	418	407	347	294	212	225	211	229	170	208	274
100%	986	769	1,082	1,385	1,156	548	769	941	1,255	742	469	897
98%	839	743	1,036	1,322	1,013	536	665	589	774	628	443	779
95%	681	709	839	871	716	496	619	426	564	516	414	521
90%	592	691	588	641	589	346	443	379	495	334	398	433
75%	464	543	500	382	383	293	249	287	304	174	322	346
50%	313	421	353	278	236	193	174	175	134	115	171	198
25%	211	264	257	152	124	122	128	94	96	90	112	159
10%	138	161	220	115	62	61	89	74	67	60	72	130
5%	130	137	145	108	46	54	82	64	64	53	70	118
2%	127	126	125	97	43	46	54	44	61	45	66	107
0%	120	84	99	78	36	39	34	43	60	23	58	82

Site #: 02471001 Name: Chickasaw Creek near Kushla, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 125 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	355	418	407	347	294	212	225	211	229	170	208	274
100%	986	769	1,082	1,385	1,156	548	769	941	1,255	742	469	897
98%	839	743	1,036	1,322	1,013	536	665	589	774	628	443	779
95%	681	709	839	871	716	496	619	426	564	516	414	521
90%	592	691	588	641	589	346	443	379	495	334	398	433
75%	464	543	500	382	383	293	249	287	304	174	322	346
50%	313	421	353	278	236	193	174	175	134	115	171	198
25%	211	264	257	152	124	122	128	94	96	90	112	159
10%	138	161	220	115	62	61	89	74	67	60	72	130
5%	130	137	145	108	46	54	82	64	64	53	70	118
2%	127	126	125	97	43	46	54	44	61	45	66	107
0%	120	84	99	78	36	39	34	43	60	23	58	82

Monthly Flows (in CFS) for
02479431 - Pond Creek near Deer Park, Ala.

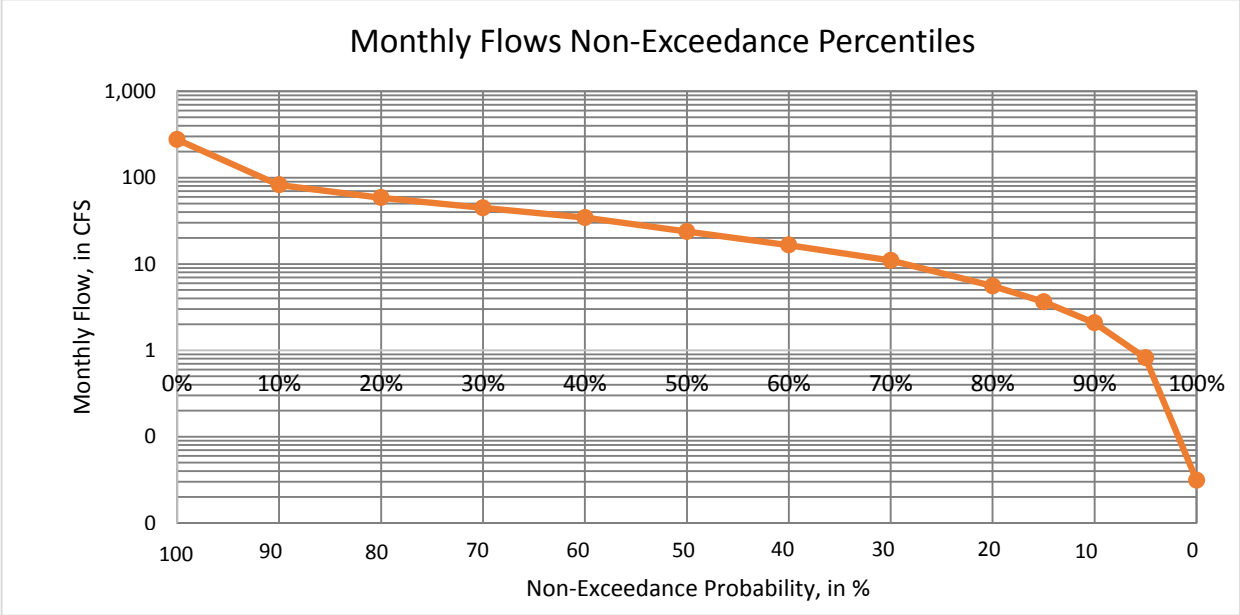
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	66	68	70	94	83	42	27	83	48	68	42	35	61
1976	35	39	31	34	34	24	10	3	3	36	34	48	27
1977	58	50	113	40	22	1	2	8	23	10	56	37	35
1978	82	44	46	30	77	122	15	4	8	1	7	28	38
1979	88	113	143	140	18	15	41	9	73	9	80	57	65
1980	59	39	61	125	89	7	3	4	2	17	14	9	36
1981	11	149	30	14	20	11	19	9	6	0	1	22	23
1982	38	126	22	29	3	13	19	14	4	3	26	84	31
1983	50	166	111	276	30	30	27	35	15	10	49	89	73
1984	64	73	71	43	40	2	4	19	2	9	17	32	31
1985	36	58	36	16	9	11	42	20	79	91	43	54	41
1986	45	53	59	17	18	9	1	3	6	5	61	56	28
1987	90	91	67	21	13	25	5	9	1	0	4	14	28
1988	28	56	63	25	1	0	5	5	61	19	22	15	25
1989	22	9	51	30	44	62	69	8	1	5	33	61	33
1990	99	150	89	29	55	6	2	2	2	0	3	12	37
1991	94	49	78	40	184	28	22	5	9	1	11	13	45
1992	99	89	45	45	3	3	25	7	4	2	104	73	41
1993	133	47	78	56	67	49	38	12	35	22	39	37	51
1994	45	52	50	52	23	17	59	16	3	9	12	48	32
1995	71	104	94	60	27	17	5	11	0	11	23	103	43
1996	68	40	74	58	15	12	10	20	5	2	8	50	30
1997	73	66	49	46	21	28	34	14	1	4	30	40	34
1998	134	71	98	38	14	12	14	36	167	58	23	18	57
1999	50	48	98	16	4	33	30	3	10	16	1	8	26
2000	8	5	26	15	0	0	0	0	0	0	12	11	7
2001	24	19	120	12	1	33	6	13	12	5	2	13	22
2002	18	18	50	16	1	1	3	2	46	64	62	69	29
2003	46	44	78	38	47	80	106	43	35	8	11	25	47
2004	30	70	29	13	40	41	40	13	22	8	39	41	32
2005	24	49	30	93	26	39	94	40	40	9	6	17	39
2006	19	33	25	5	7	1	1	2	1	9	38	51	16
2007	76	32	13	17	1	8	19	1	1	14	8	19	17
2008	43	54	33	35	5	1	1	12	46	2	1	19	21
2009	24	13	105	93	80	11	1	4	23	18	30	172	48
2010	74	107	46	12	47	11	6	6	1	0	4	4	26
2011	10	25	47	15	0	0	17	4	18	1	1	3	12
2012	15	65	74	23	17	23	24	65	88	18	3	24	36
2013	41	86	34	49	60	7	13	24	8	3	5	40	31
2014	30	70	55	73	102	40	19	7	4	2	2	15	35

Non-Exceedance Percentiles

02479431 - Pond Creek near Deer Park, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	8	5	13	5	0	0	0	0	0	0	1	3	7
5th %	11	13	24	12	1	0	1	2	1	0	1	8	16
10th %	18	19	29	14	1	1	1	2	1	0	1	11	20
15th %	21	31	30	15	3	1	2	3	1	1	3	13	23
20th %	24	38	33	16	4	3	3	3	2	1	4	13	26
30th %	30	44	45	20	12	8	5	4	3	3	7	18	28
40th %	40	49	49	29	17	11	10	7	5	5	11	23	31
Median	46	53	57	35	21	13	16	9	8	8	16	33	33
60th %	58	65	68	40	28	20	19	12	13	9	24	40	35
70th %	69	70	75	47	41	28	25	14	23	12	33	49	38
80th %	77	89	90	58	56	34	35	20	41	18	40	56	44
90th %	95	114	106	93	80	43	43	36	62	38	56	74	52
Maximum	134	166	143	276	184	122	106	83	167	91	104	172	73
Average	53	63	62	47	34	22	22	15	23	14	24	39	35

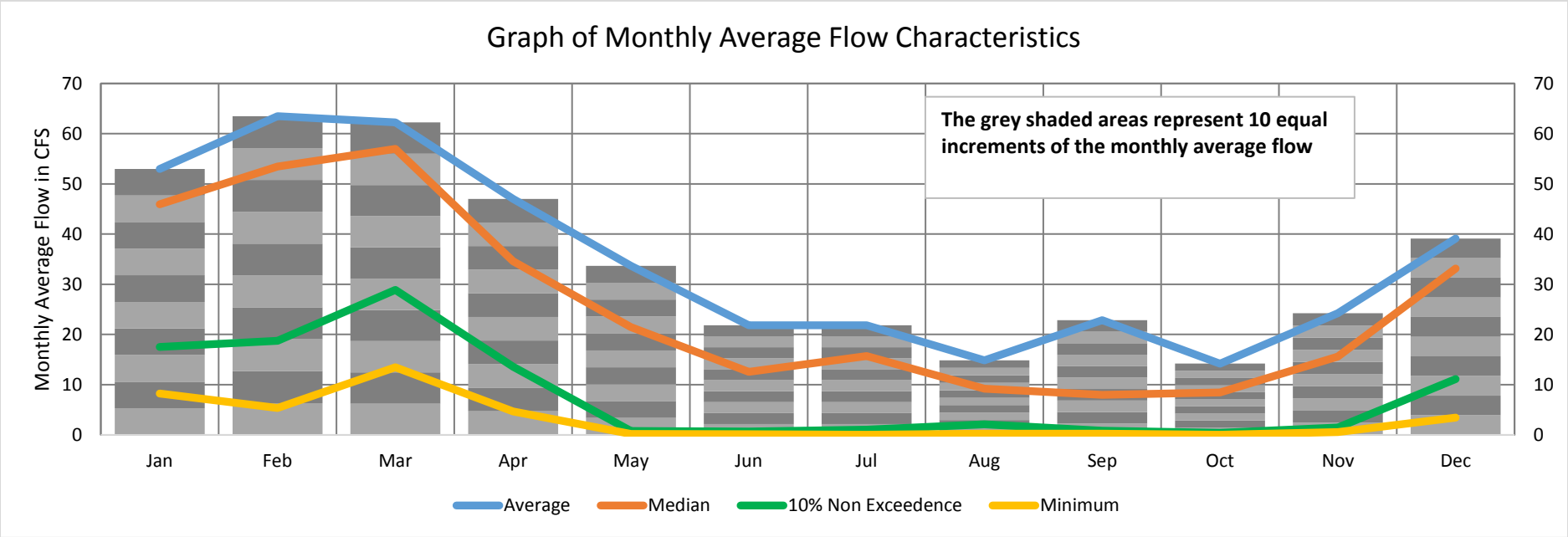
	Flows in CFS
Minimum	0.0
5th %	1
10th %	2
15th %	4
20th %	6
30th %	11
40th %	17
Median	24
60th %	34
70th %	45
80th %	59
90th %	82
Maximum	276
Average	35



Q10/Q50	0.09
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.00
Q5/DA	0.04
Q10/DA	0.10
Q15/DA	0.18
Q20/DA	0.27
Q30/DA	0.54
Q40/DA	0.81
Q50/DA	1.16
Q60/DA	1.68
Q70/DA	2.18
Q80/DA	2.87
Q90/DA	4.03
Qmax/DA	13.51

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

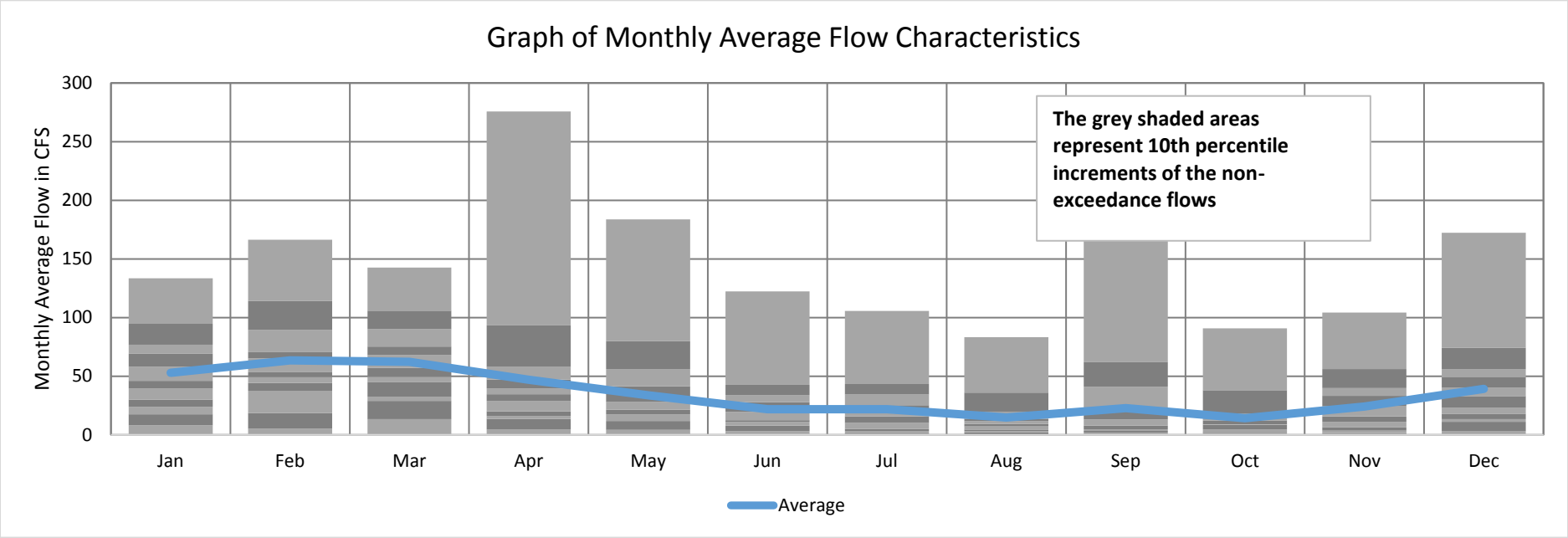
Site #: 02479431 Name: Pond Creek near Deer Park, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	53	63	62	47	34	22	22	15	23	14	24	39
100%	134	166	143	276	184	122	106	83	167	91	104	172
98%	133	154	125	170	120	89	97	69	106	73	86	119
95%	100	149	113	126	90	63	70	44	80	64	63	89
90%	95	114	106	93	80	43	43	36	62	38	56	74
75%	73	76	78	53	47	30	28	17	35	16	38	52
50%	46	53	57	35	21	13	16	9.2	8.0	8.5	16	33
25%	27	40	35	16	6.2	6.8	4.3	3.8	2.3	1.9	4.8	15
10%	18	19	29	14	0.8	0.7	1.1	2.1	0.8	0.4	1.5	11
5%	11	13	24	12	0.6	0.2	0.8	1.8	0.5	0.3	1.0	8.1
2%	9.7	8.1	20	10	0.3	0.1	0.6	0.9	0.4	0.2	0.8	3.8
0%	8.2	5.4	13	4.7	0.2	0.1	0.1	0.2	0.2	0.0	0.5	3.4

Site #: 02479431 Name: Pond Creek near Deer Park, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 20 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	53	63	62	47	34	22	22	15	23	14	24	39
100%	134	166	143	276	184	122	106	83	167	91	104	172
98%	133	154	125	170	120	89	97	69	106	73	86	119
95%	100	149	113	126	90	63	70	44	80	64	63	89
90%	95	114	106	93	80	43	43	36	62	38	56	74
75%	73	76	78	53	47	30	28	17	35	16	38	52
50%	46	53	57	35	21	13	16	9.2	8.0	8.5	16	33
25%	27	40	35	16	6.2	6.8	4.3	3.8	2.3	1.9	4.8	15
10%	18	19	29	14	0.8	0.7	1.1	2.1	0.8	0.4	1.5	11
5%	11	13	24	12	0.6	0.2	0.8	1.8	0.5	0.3	1.0	8.1
2%	9.7	8.1	20	10	0.3	0.1	0.6	0.9	0.4	0.2	0.8	3.8
0%	8.2	5.4	13	4.7	0.2	0.1	0.1	0.2	0.2	0.0	0.5	3.4

Monthly Flows (in CFS) for

02479560 - Escatawpa River near Agricola, Miss.

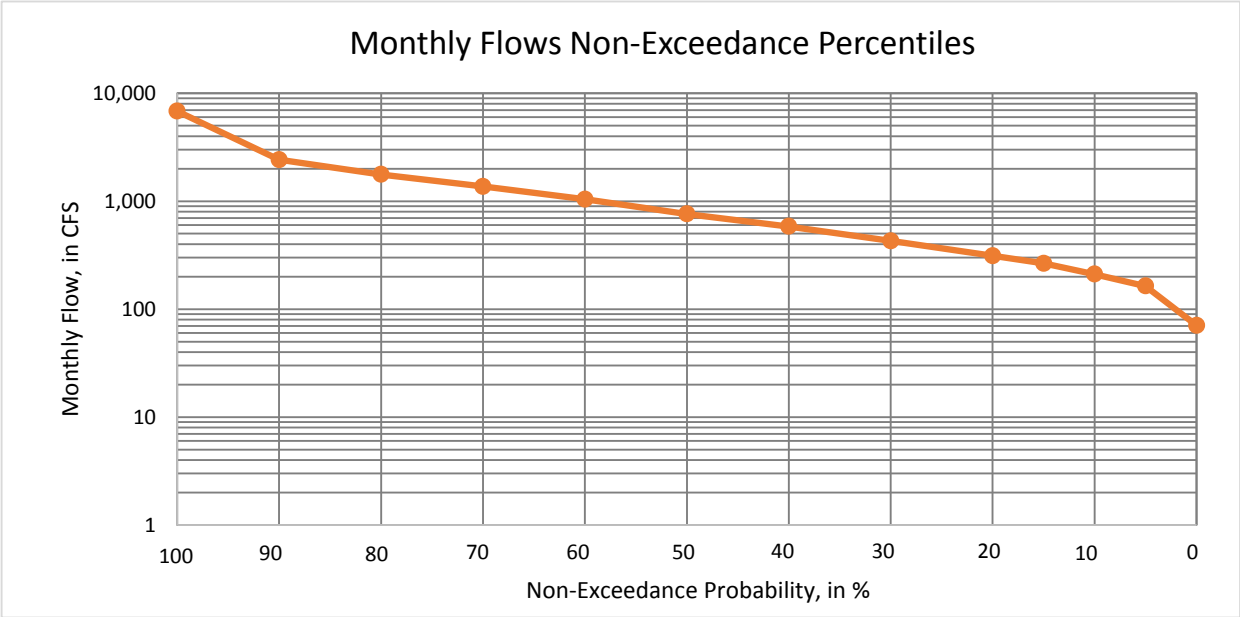
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,123	2,186	2,248	2,999	2,684	1,307	864	2,675	1,510	2,182	1,296	1,078	1,929
1976	1,079	1,203	975	1,053	1,065	768	421	243	255	232	758	1,593	801
1977	1,751	1,067	2,935	1,582	893	246	303	634	1,448	406	1,621	1,193	1,174
1978	2,600	1,497	1,425	1,075	2,336	2,572	501	573	265	168	199	514	1,142
1979	1,915	3,333	4,383	3,053	607	683	1,409	600	2,109	402	2,587	1,606	1,876
1980	1,666	1,076	3,382	5,904	4,322	874	545	385	325	828	572	544	1,705
1981	365	3,384	999	818	759	500	270	210	257	126	152	364	664
1982	1,084	3,050	742	792	509	377	653	900	307	224	524	2,597	968
1983	1,409	3,756	2,837	5,986	1,092	1,066	668	591	538	300	738	2,420	1,764
1984	2,140	1,859	2,207	1,179	1,524	395	387	777	264	350	369	811	1,020
1985	979	1,769	1,353	544	425	247	993	672	2,017	1,830	2,199	1,771	1,229
1986	1,594	1,753	1,865	732	486	554	245	269	280	230	1,017	1,798	898
1987	2,421	2,084	2,532	795	726	620	337	579	194	129	251	414	919
1988	850	1,632	1,754	1,173	210	169	382	397	2,207	851	886	679	925
1989	835	412	1,344	1,369	1,315	1,547	1,592	378	218	257	1,366	1,622	1,025
1990	3,418	4,280	3,478	1,267	2,225	929	317	299	185	150	278	382	1,419
1991	2,268	2,302	2,377	1,632	6,818	1,092	788	433	439	206	496	648	1,627
1992	2,730	3,086	1,346	847	253	292	315	311	279	151	2,544	2,120	1,176
1993	3,363	1,432	2,119	1,756	2,049	1,067	821	497	425	304	730	971	1,297
1994	1,194	1,532	1,346	1,492	599	608	1,668	330	240	297	312	1,005	882
1995	1,576	2,441	2,215	1,736	1,124	604	382	642	199	480	732	2,084	1,178
1996	2,083	1,810	2,206	2,258	581	412	324	515	280	191	243	660	958
1997	1,563	1,892	1,641	1,247	963	1,587	1,484	589	196	372	837	1,564	1,157
1998	4,452	2,119	2,897	999	418	320	428	544	2,257	3,528	639	467	1,590
1999	1,096	1,767	2,108	490	229	715	742	179	199	561	164	382	714
2000	382	308	830	544	114	93	80	111	110	71	482	458	298
2001	771	640	3,755	465	142	1,019	321	485	476	287	223	492	760
2002	615	620	1,563	576	144	146	252	210	1,449	2,044	1,991	2,217	988
2003	1,452	1,362	2,504	1,194	1,480	2,573	3,355	1,340	1,085	385	458	800	1,502
2004	940	2,256	918	500	1,233	1,267	1,246	498	719	386	1,224	1,283	1,030
2005	761	1,544	928	2,970	827	1,202	3,015	1,237	1,231	388	333	588	1,248
2006	654	1,033	789	289	338	134	154	210	155	403	1,178	1,607	577
2007	2,427	999	508	584	165	379	648	169	165	528	387	644	633
2008	1,344	1,699	1,029	1,098	307	160	169	470	1,441	210	158	640	719
2009	776	496	3,350	2,992	2,556	449	154	279	756	622	953	4,991	1,542
2010	2,384	3,407	1,451	462	1,469	451	314	328	151	128	276	267	910
2011	428	804	1,486	550	105	109	587	257	616	170	170	254	460
2012	541	2,064	2,377	756	607	758	774	2,078	2,835	617	248	762	1,195
2013	1,263	2,764	1,055	1,552	1,890	352	502	773	385	236	298	1,240	1,016
2014	945	2,228	1,725	2,333	3,251	1,247	639	357	283	202	189	546	1,155

Non-Exceedance Percentiles

02479560 - Escatawpa River near Agricola, Miss.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	365	308	508	289	105	93	80	111	110	71	152	254	298
5th %	426	492	786	465	140	133	154	178	155	128	163	359	571
10th %	607	638	909	499	163	159	238	210	183	148	187	382	661
15th %	745	970	968	544	226	235	267	238	195	165	219	451	719
20th %	775	1,060	1,023	571	296	283	312	267	199	187	247	487	793
30th %	943	1,411	1,346	781	468	378	323	323	256	220	292	575	916
40th %	1,091	1,597	1,472	938	603	450	385	382	280	249	380	655	980
Median	1,377	1,768	1,740	1,136	793	606	501	478	316	302	510	806	1,028
60th %	1,583	1,961	2,154	1,255	1,076	732	643	527	454	385	731	1,124	1,164
70th %	1,965	2,199	2,287	1,561	1,361	956	751	589	730	404	851	1,573	1,205
80th %	2,291	2,506	2,593	1,856	1,922	1,114	890	648	1,442	572	1,187	1,652	1,436
90th %	2,613	3,338	3,353	2,993	2,569	1,331	1,495	933	2,026	949	1,658	2,130	1,635
Maximum	4,452	4,280	4,383	5,986	6,818	2,573	3,355	2,675	2,835	3,528	2,587	4,991	1,929
Average	1,556	1,874	1,925	1,491	1,221	747	726	576	719	536	752	1,152	1,102

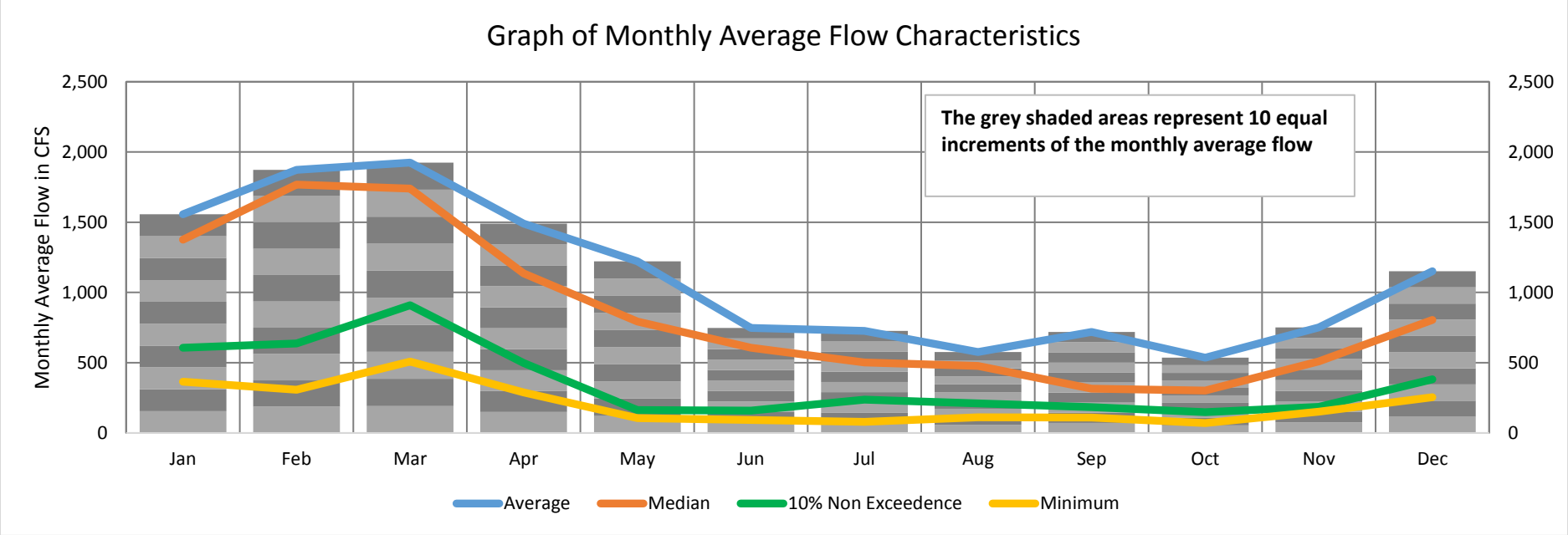
	Flows in CFS
Minimum	70.7
5th %	163
10th %	210
15th %	265
20th %	311
30th %	428
40th %	582
Median	762
60th %	1,041
70th %	1,367
80th %	1,767
90th %	2,420
Maximum	6,818
Average	1,106



Q10/Q50	0.28
Q10/Q90	0.09
	CFSM*
Qmin/DA	0.13
Q5/DA	0.29
Q10/DA	0.37
Q15/DA	0.47
Q20/DA	0.55
Q30/DA	0.76
Q40/DA	1.04
Q50/DA	1.36
Q60/DA	1.85
Q70/DA	2.43
Q80/DA	3.14
Q90/DA	4.31
Qmax/DA	12.13

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

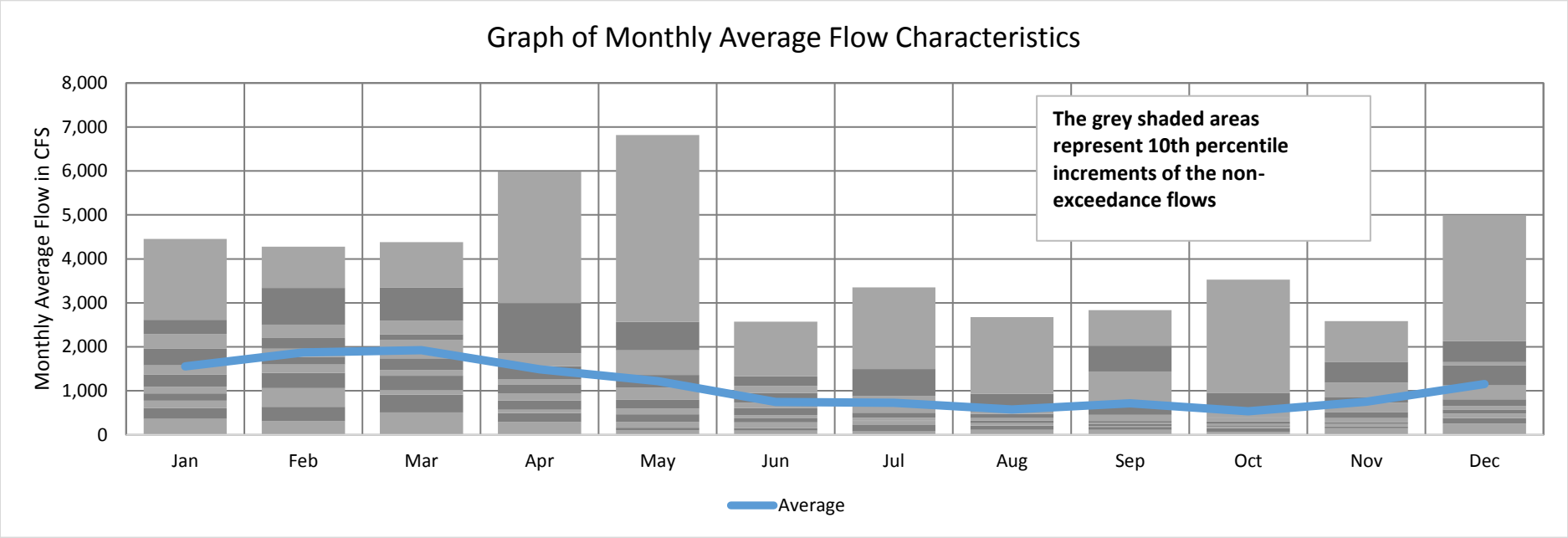
Site #: 02479560 Name: Escatawpa River near Agricola, Miss.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,556	1,874	1,925	1,491	1,221	747	726	576	719	536	752	1,152
100%	4,452	4,280	4,383	5,986	6,818	2,573	3,355	2,675	2,835	3,528	2,587	4,991
98%	3,645	3,871	3,893	5,922	4,871	2,572	3,090	2,209	2,384	2,478	2,553	3,124
95%	3,366	3,424	3,492	3,196	3,305	1,636	1,735	1,377	2,210	2,051	2,216	2,429
90%	2,613	3,338	3,353	2,993	2,569	1,331	1,495	933	2,026	949	1,658	2,130
75%	2,127	2,268	2,409	1,658	1,491	1,066	796	608	1,122	492	969	1,606
50%	1,377	1,768	1,740	1,136	793	606	501	478	316	302	510	806
25%	846	1,171	1,272	695	398	344	317	294	234	205	270	536
10%	607	638	909	499	163	159	238	210	183	148	187	382
5%	426	492	786	465	140	133	154	178	155	128	163	359
2%	378	389	691	424	112	105	138	156	142	114	157	264
0%	365	308	508	289	105	93	80	111	110	71	152	254

Site #: 02479560 Name: Escatawpa River near Agricola, Miss.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 562 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,556	1,874	1,925	1,491	1,221	747	726	576	719	536	752	1,152
100%	4,452	4,280	4,383	5,986	6,818	2,573	3,355	2,675	2,835	3,528	2,587	4,991
98%	3,645	3,871	3,893	5,922	4,871	2,572	3,090	2,209	2,384	2,478	2,553	3,124
95%	3,366	3,424	3,492	3,196	3,305	1,636	1,735	1,377	2,210	2,051	2,216	2,429
90%	2,613	3,338	3,353	2,993	2,569	1,331	1,495	933	2,026	949	1,658	2,130
75%	2,127	2,268	2,409	1,658	1,491	1,066	796	608	1,122	492	969	1,606
50%	1,377	1,768	1,740	1,136	793	606	501	478	316	302	510	806
25%	846	1,171	1,272	695	398	344	317	294	234	205	270	536
10%	607	638	909	499	163	159	238	210	183	148	187	382
5%	426	492	786	465	140	133	154	178	155	128	163	359
2%	378	389	691	424	112	105	138	156	142	114	157	264
0%	365	308	508	289	105	93	80	111	110	71	152	254

Monthly Flows (in CFS) for

03130012 - Chipola River Basin Subbasin in Alabama

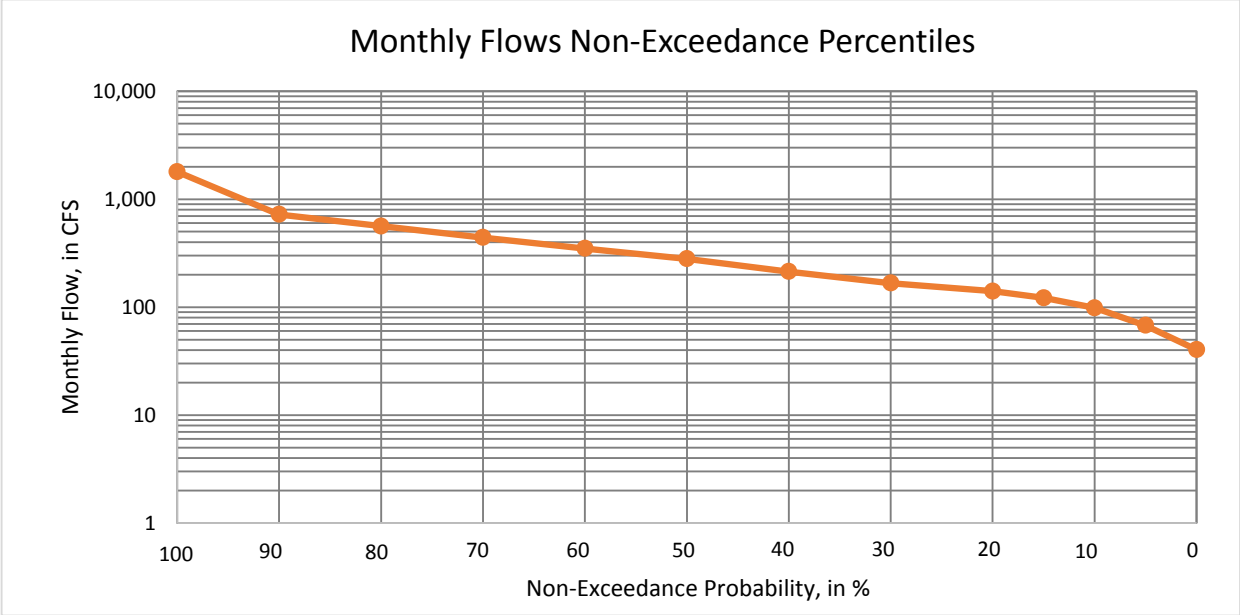
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	502	523	646	1,326	490	422	409	883	414	559	394	310	573
1976	486	581	424	306	460	402	258	174	149	234	273	635	364
1977	711	427	536	323	171	131	122	155	367	151	456	336	323
1978	596	808	1,162	528	626	476	269	360	152	122	116	205	450
1979	473	857	876	623	561	279	522	378	745	572	315	308	540
1980	381	495	961	1,152	652	322	219	172	140	147	154	133	410
1981	147	294	316	254	136	147	98	100	98	68	64	79	149
1982	304	748	442	290	229	196	269	441	290	178	194	489	337
1983	700	896	913	1,111	508	418	366	189	276	157	173	602	523
1984	605	751	1,120	828	329	290	373	486	218	156	141	126	450
1985	136	289	243	173	144	114	120	173	123	97	370	605	215
1986	706	1,176	677	289	178	162	119	105	105	81	81	194	317
1987	476	686	842	595	266	433	391	277	163	134	147	143	377
1988	276	562	820	422	195	146	190	155	320	198	162	152	298
1989	182	161	272	263	201	983	848	347	209	301	363	438	382
1990	900	688	550	377	231	192	171	100	59	59	52	68	285
1991	235	743	1,287	617	596	487	421	457	218	158	140	152	458
1992	296	795	959	440	201	352	308	295	298	214	345	618	424
1993	969	631	811	520	226	156	182	122	136	122	178	166	350
1994	272	563	688	599	262	619	1,411	615	413	768	343	472	587
1995	431	694	607	489	382	373	189	274	135	183	255	217	350
1996	231	575	698	620	309	147	140	125	269	459	182	282	335
1997	577	615	404	372	451	396	454	369	178	138	419	700	422
1998	947	1,082	1,437	516	226	165	162	153	407	661	317	241	524
1999	448	407	343	194	237	248	562	243	156	115	121	119	266
2000	151	212	292	173	84	65	64	61	69	61	93	245	130
2001	309	204	787	513	154	325	167	289	133	83	69	84	260
2002	103	127	255	426	101	110	130	119	267	258	668	465	252
2003	470	403	1,015	654	260	322	516	609	399	186	189	211	437
2004	185	619	327	167	355	413	470	161	294	247	333	508	338
2005	425	303	471	1,153	481	496	620	611	287	164	155	431	467
2006	687	460	316	161	179	91	75	77	71	65	97	141	200
2007	290	392	286	135	67	51	73	52	48	59	58	131	135
2008	548	1,015	660	359	140	95	141	251	199	148	136	909	380
2009	393	330	593	1,795	569	380	269	190	162	187	198	750	484
2010	926	1,093	522	240	471	156	116	100	68	61	68	77	320
2011	99	233	223	155	70	46	59	57	43	40	41	61	93
2012	153	342	605	181	104	98	80	231	219	199	109	149	205
2013	172	1,156	927	369	205	147	1,003	1,003	520	287	216	327	525
2014	485	532	720	1,145	1,052	340	213	132	141	145	140	312	446

Non-Exceedance Percentiles

03130012 - Chipola River Basin Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	99	127	223	135	67	46	59	52	43	40	41	61	93
5th %	134	202	254	161	83	65	73	61	58	59	58	77	135
10th %	151	231	284	172	104	94	80	97	69	61	67	83	195
15th %	169	293	312	180	139	108	113	100	94	68	79	125	214
20th %	185	325	324	230	152	128	120	116	119	82	96	133	259
30th %	275	406	436	290	190	147	141	147	139	122	132	151	312
40th %	307	512	544	365	218	164	178	167	154	146	145	200	336
Median	428	569	626	424	234	264	216	190	189	157	168	243	357
60th %	474	624	692	514	283	323	269	260	218	180	191	311	393
70th %	516	708	814	596	403	375	379	311	279	198	260	433	440
80th %	621	798	916	629	483	414	457	391	302	249	335	493	460
90th %	730	1,022	1,025	1,145	571	477	568	609	408	469	372	619	524
Maximum	969	1,176	1,437	1,795	1,052	983	1,411	1,003	745	768	668	909	587
Average	435	587	651	521	314	280	314	277	224	206	208	315	360

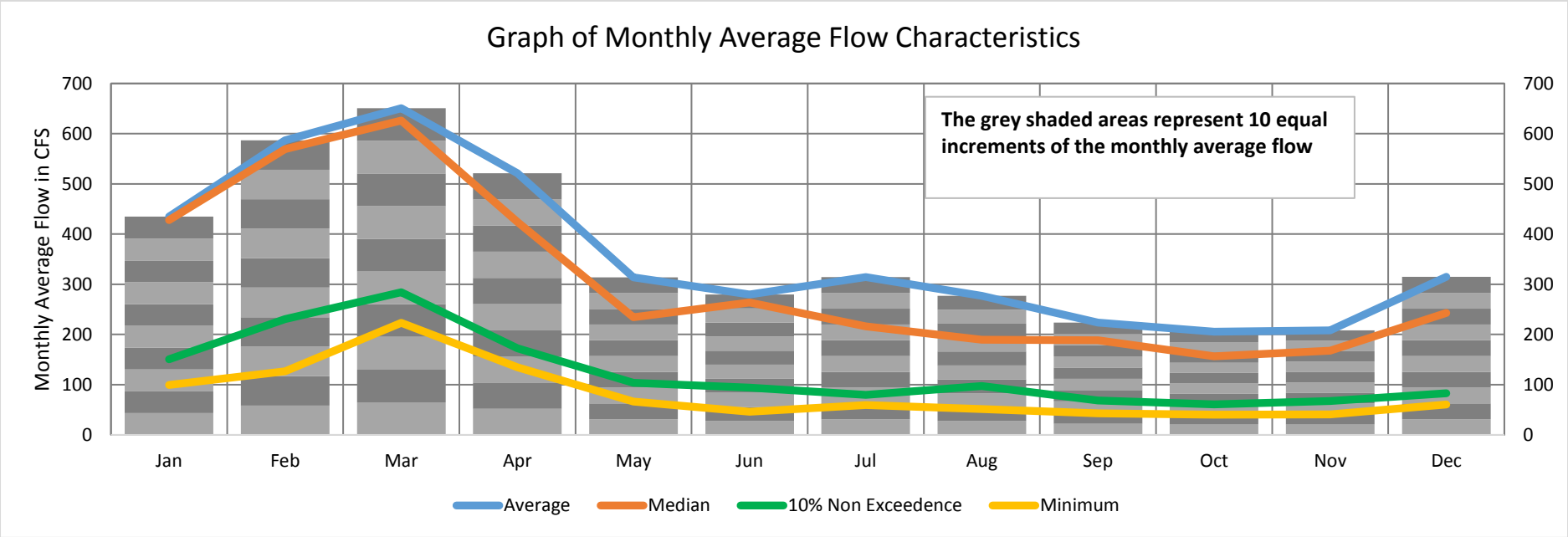
	Flows in CFS
Minimum	40.3
5th %	68
10th %	98
15th %	122
20th %	140
30th %	167
40th %	213
Median	281
60th %	349
70th %	441
80th %	562
90th %	722
Maximum	1,795
Average	361



Q10/Q50	0.35
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.20
Q5/DA	0.34
Q10/DA	0.49
Q15/DA	0.61
Q20/DA	0.70
Q30/DA	0.83
Q40/DA	1.06
Q50/DA	1.40
Q60/DA	1.74
Q70/DA	2.20
Q80/DA	2.80
Q90/DA	3.60
Qmax/DA	8.95

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

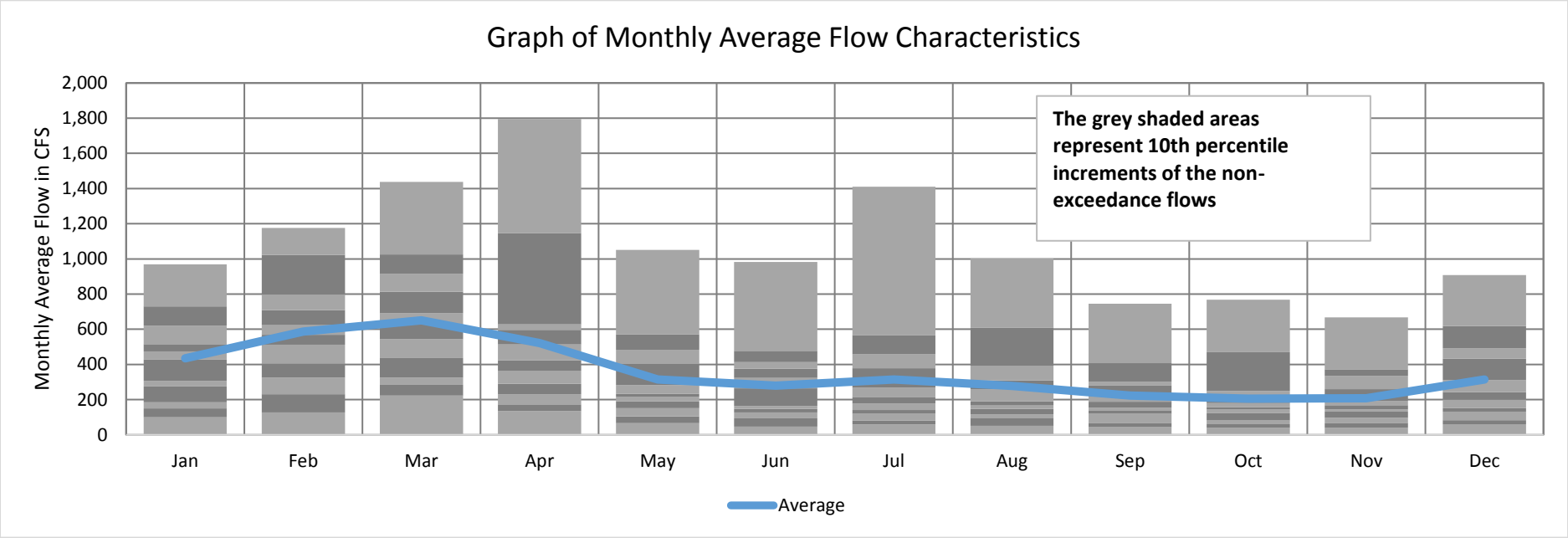
Site #: 03130012 Name: Chipola River Basin Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	435	587	651	521	314	280	314	277	224	206	208	315
100%	969	1,176	1,437	1,795	1,052	983	1,411	1,003	745	768	668	909
98%	952	1,160	1,320	1,429	740	699	1,093	909	569	685	503	785
95%	927	1,096	1,168	1,162	627	502	856	629	419	577	421	703
90%	730	1,022	1,025	1,145	571	477	568	609	408	469	372	619
75%	582	749	850	617	463	397	412	362	291	219	316	467
50%	428	569	626	424	234	264	216	190	189	157	168	243
25%	234	380	388	261	176	147	128	125	135	111	115	142
10%	151	231	284	172	104	94	80	97	69	61	67	83
5%	134	202	254	161	83	65	73	61	58	59	58	77
2%	102	153	239	151	70	50	63	56	47	55	50	66
0%	99	127	223	135	67	46	59	52	43	40	41	61

Site #: 03130012 Name: Chipola River Basin Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 201 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	435	587	651	521	314	280	314	277	224	206	208	315
100%	969	1,176	1,437	1,795	1,052	983	1,411	1,003	745	768	668	909
98%	952	1,160	1,320	1,429	740	699	1,093	909	569	685	503	785
95%	927	1,096	1,168	1,162	627	502	856	629	419	577	421	703
90%	730	1,022	1,025	1,145	571	477	568	609	408	469	372	619
75%	582	749	850	617	463	397	412	362	291	219	316	467
50%	428	569	626	424	234	264	216	190	189	157	168	243
25%	234	380	388	261	176	147	128	125	135	111	115	142
10%	151	231	284	172	104	94	80	97	69	61	67	83
5%	134	202	254	161	83	65	73	61	58	59	58	77
2%	102	153	239	151	70	50	63	56	47	55	50	66
0%	99	127	223	135	67	46	59	52	43	40	41	61

Monthly Flows (in CFS) for
03140106 - Perdido River Subbasin

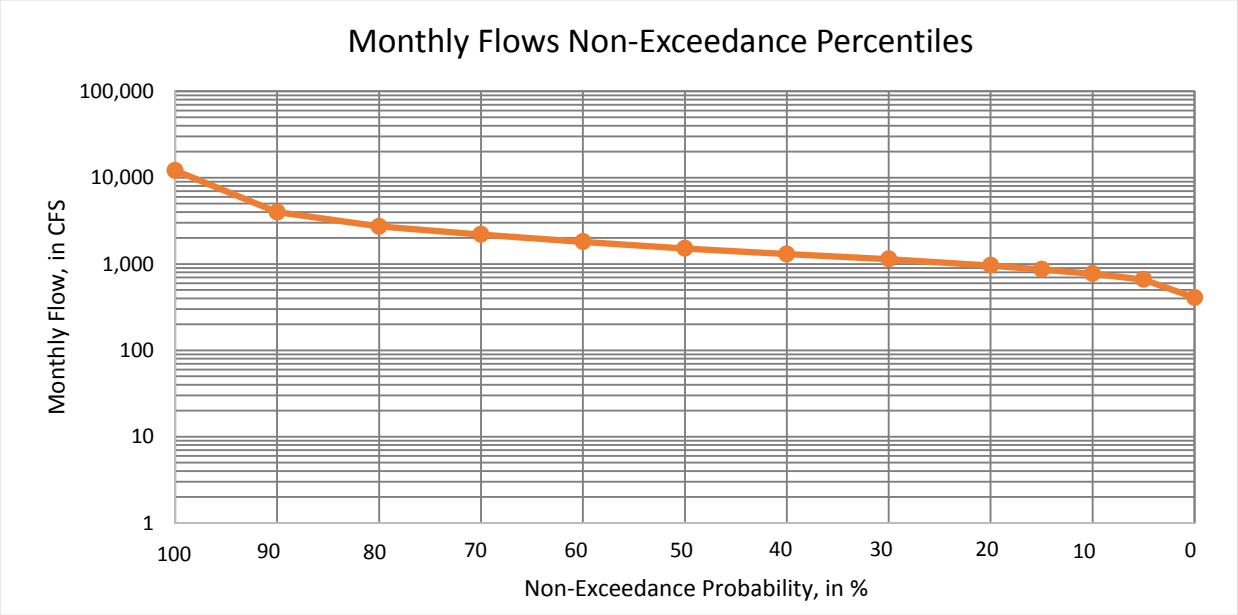
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,393	1,873	3,338	3,704	4,658	1,661	3,230	4,513	3,198	2,329	1,773	1,916	2,809
1976	3,721	2,547	3,218	1,906	4,431	1,625	1,409	1,268	1,285	1,361	1,231	1,508	2,129
1977	1,611	2,256	2,036	1,499	895	738	1,070	2,643	1,705	881	989	1,213	1,457
1978	3,179	2,571	2,198	2,433	4,245	2,927	1,481	2,582	1,798	962	1,142	1,402	2,242
1979	2,025	3,523	4,082	2,396	1,482	864	1,910	1,820	2,388	1,196	2,422	1,900	2,158
1980	2,574	1,762	5,797	8,634	4,578	2,663	1,523	1,291	1,155	1,463	1,871	1,277	2,884
1981	1,069	4,699	1,435	1,232	1,589	1,140	891	1,007	1,175	645	695	1,032	1,360
1982	1,889	3,203	1,826	1,021	775	758	1,343	1,247	904	770	857	1,528	1,333
1983	2,726	4,891	5,780	8,707	1,966	1,903	1,514	985	1,200	938	1,422	3,492	2,941
1984	2,704	2,098	3,154	2,236	1,709	855	967	4,261	789	751	938	964	1,789
1985	1,312	4,032	2,296	1,009	812	1,503	2,499	1,461	1,809	2,377	3,338	2,712	2,083
1986	3,093	2,134	1,984	972	1,293	997	869	1,036	1,009	1,176	1,624	2,550	1,561
1987	2,299	3,061	3,170	1,527	1,521	1,639	1,359	1,598	791	628	1,291	1,351	1,679
1988	2,212	2,505	2,337	1,706	647	596	1,262	3,005	4,826	1,669	1,153	994	1,903
1989	941	903	1,280	1,173	1,612	7,462	3,038	954	761	1,234	5,284	2,208	2,233
1990	5,387	5,830	6,541	1,854	2,303	1,672	1,326	851	752	715	692	885	2,385
1991	3,944	2,797	2,670	1,970	5,270	2,651	2,671	1,645	1,224	816	1,427	1,242	2,363
1992	4,676	3,573	2,046	1,124	719	1,052	1,422	1,880	1,136	905	3,405	3,042	2,074
1993	3,427	2,404	3,372	2,835	1,616	1,013	1,782	1,003	1,112	1,068	1,358	1,298	1,856
1994	1,932	1,594	2,141	2,311	1,041	1,553	4,223	1,643	953	1,336	1,129	1,419	1,778
1995	1,781	1,731	3,109	3,340	4,414	1,465	1,397	4,166	1,126	6,289	4,034	3,173	3,018
1996	2,952	3,790	4,000	5,792	2,356	1,639	1,902	2,428	2,935	1,387	1,269	1,646	2,663
1997	2,114	2,572	1,801	1,906	1,941	2,746	7,020	1,883	939	997	2,864	2,732	2,462
1998	7,411	3,834	5,907	2,151	1,261	1,073	1,567	1,602	12,103	3,158	2,329	1,598	3,657
1999	2,260	1,370	2,178	1,031	821	2,526	1,931	1,079	778	1,371	718	1,072	1,430
2000	915	824	927	728	494	660	471	483	613	408	1,327	1,223	755
2001	1,341	1,094	3,754	833	502	1,103	1,213	2,195	989	774	576	770	1,268
2002	1,111	988	1,085	846	506	518	843	708	3,718	2,579	2,176	1,892	1,413
2003	1,711	1,752	3,093	1,413	4,550	4,536	6,754	3,051	1,844	1,182	1,247	1,749	2,754
2004	2,395	4,175	1,318	785	1,125	2,434	1,504	1,314	4,594	1,218	3,084	3,332	2,253
2005	1,672	2,105	1,813	7,577	2,479	3,985	4,799	4,415	2,395	1,267	1,250	1,706	2,953
2006	1,884	1,822	1,237	1,017	1,145	765	644	964	1,220	1,097	1,899	1,044	1,223
2007	2,162	1,432	864	1,138	540	746	750	573	766	1,300	1,032	1,616	1,075
2008	2,613	2,678	1,781	3,255	1,289	690	938	1,735	1,752	799	718	1,496	1,637
2009	1,227	1,146	4,956	4,228	2,512	1,144	875	1,317	1,839	1,440	1,997	6,661	2,457
2010	5,868	4,703	2,890	1,190	2,307	1,250	911	1,190	777	593	1,379	1,068	1,998
2011	1,515	1,412	1,482	769	500	565	1,438	653	1,815	489	528	750	990
2012	807	2,103	1,025	644	803	2,156	838	1,318	1,440	779	524	932	1,105
2013	928	2,927	1,306	1,205	1,753	1,166	1,509	1,398	1,124	708	741	1,808	1,372
2014	1,685	2,050	2,696	5,422	5,389	2,297	2,033	970	1,017	869	680	1,289	2,199

Non-Exceedance Percentiles

03140106 - Perdido River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	807	824	864	644	494	518	471	483	613	408	524	750	755
5th %	928	983	1,020	767	502	594	745	649	761	588	574	879	1,071
10th %	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961	1,211
15th %	1,210	1,406	1,302	953	708	745	874	963	787	714	714	1,027	1,323
20th %	1,335	1,562	1,412	1,015	798	764	907	982	881	766	736	1,064	1,370
30th %	1,654	1,804	1,809	1,134	997	1,008	1,170	1,066	1,003	811	1,019	1,237	1,530
40th %	1,843	2,101	2,042	1,221	1,277	1,125	1,353	1,282	1,125	925	1,200	1,330	1,785
Median	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502	2,036
60th %	2,276	2,572	2,773	1,932	1,727	1,630	1,511	1,619	1,347	1,205	1,396	1,628	2,174
70th %	2,640	2,967	3,159	2,336	2,304	1,741	1,818	1,838	1,801	1,311	1,803	1,833	2,286
80th %	3,111	3,616	3,448	3,272	2,859	2,452	2,126	2,459	1,953	1,397	2,207	2,277	2,503
90th %	4,017	4,227	5,038	5,459	4,552	2,764	3,329	3,162	3,250	2,334	3,109	3,055	2,890
Maximum	7,411	5,830	6,541	8,707	5,389	7,462	7,020	4,513	12,103	6,289	5,284	6,661	3,657
Average	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787	1,992

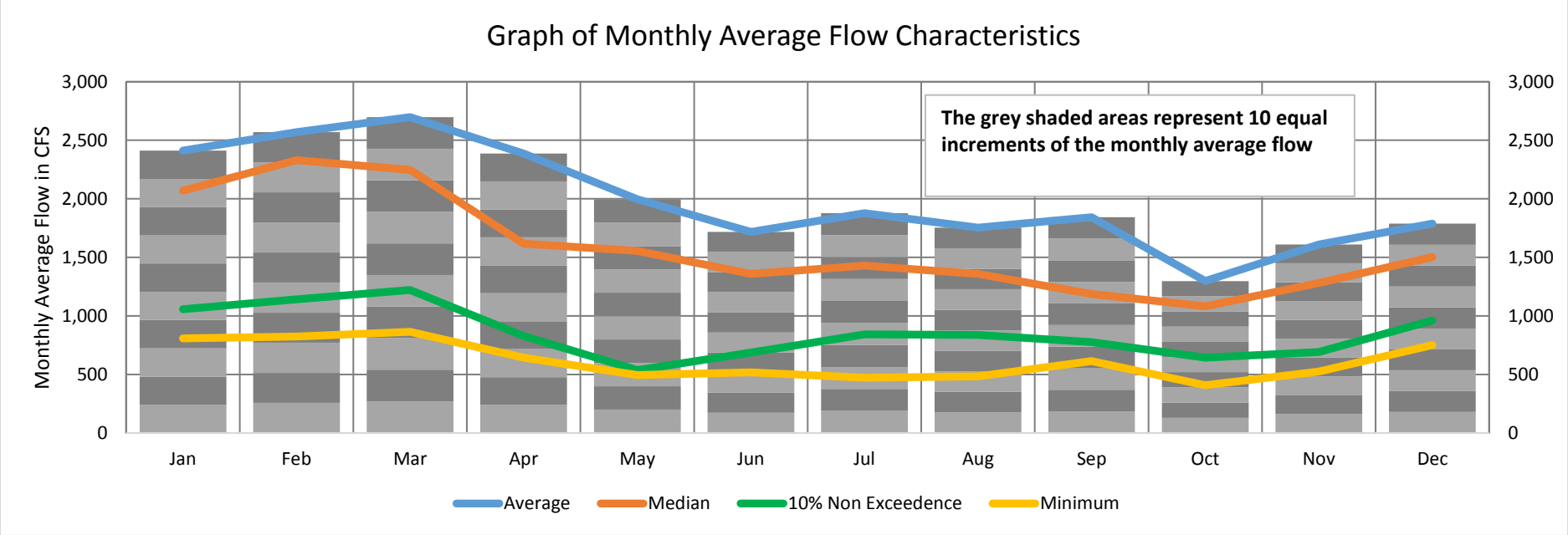
	Flows in CFS
Minimum	407.7
5th %	660
10th %	769
15th %	863
20th %	961
30th %	1,137
40th %	1,299
Median	1,512
60th %	1,808
70th %	2,196
80th %	2,715
90th %	3,987
Maximum	12,103
Average	1,996



Q10/Q50	0.51
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.44
Q5/DA	0.72
Q10/DA	0.84
Q15/DA	0.94
Q20/DA	1.04
Q30/DA	1.24
Q40/DA	1.41
Q50/DA	1.64
Q60/DA	1.97
Q70/DA	2.39
Q80/DA	2.95
Q90/DA	4.33
Qmax/DA	13.16

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

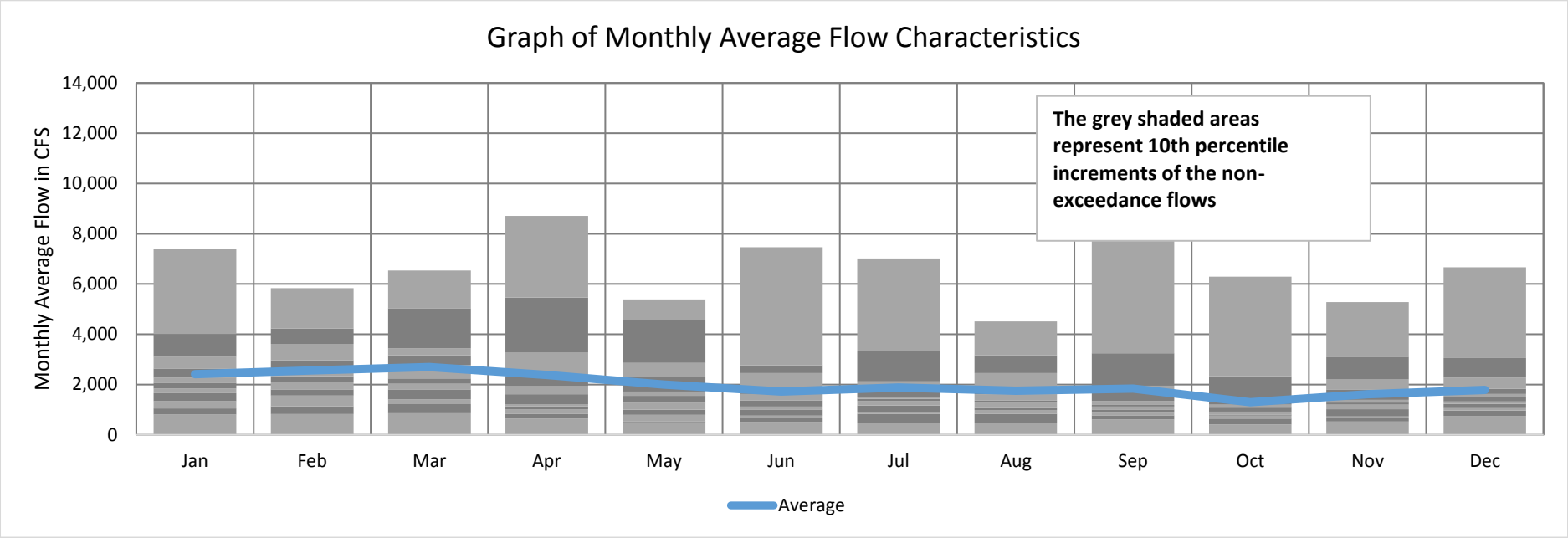
Site #: 03140106 Name: Perdido River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787
100%	7,411	5,830	6,541	8,707	5,389	7,462	7,020	4,513	12,103	6,289	5,284	6,661
98%	6,208	5,097	6,047	8,650	5,296	5,180	6,812	4,437	6,427	3,847	4,309	4,189
95%	5,411	4,712	5,803	7,630	4,689	4,013	4,897	4,269	4,606	2,608	3,436	3,340
90%	4,017	4,227	5,038	5,459	4,552	2,764	3,329	3,162	3,250	2,334	3,109	3,055
75%	2,782	3,283	3,248	2,533	2,387	2,191	1,916	1,961	1,821	1,363	1,923	1,904
50%	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502
25%	1,485	1,747	1,706	1,028	818	861	960	1,006	949	778	918	1,178
10%	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961
5%	928	983	1,020	767	502	594	745	649	761	588	574	879
2%	891	885	913	709	499	555	606	553	721	471	527	766
0%	807	824	864	644	494	518	471	483	613	408	524	750

Site #: 03140106 Name: Perdido River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 920 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,412	2,569	2,698	2,388	1,996	1,718	1,878	1,753	1,844	1,298	1,610	1,787
100%	7,411	5,830	6,541	8,707	5,389	7,462	7,020	4,513	12,103	6,289	5,284	6,661
98%	6,208	5,097	6,047	8,650	5,296	5,180	6,812	4,437	6,427	3,847	4,309	4,189
95%	5,411	4,712	5,803	7,630	4,689	4,013	4,897	4,269	4,606	2,608	3,436	3,340
90%	4,017	4,227	5,038	5,459	4,552	2,764	3,329	3,162	3,250	2,334	3,109	3,055
75%	2,782	3,283	3,248	2,533	2,387	2,191	1,916	1,961	1,821	1,363	1,923	1,904
50%	2,069	2,330	2,247	1,617	1,555	1,358	1,430	1,358	1,188	1,082	1,280	1,502
25%	1,485	1,747	1,706	1,028	818	861	960	1,006	949	778	918	1,178
10%	1,056	1,141	1,221	829	537	687	843	837	776	643	691	961
5%	928	983	1,020	767	502	594	745	649	761	588	574	879
2%	891	885	913	709	499	555	606	553	721	471	527	766
0%	807	824	864	644	494	518	471	483	613	408	524	750

Monthly Flows (in CFS) for

03140201 - Upper Choctawhatchee River Subbasin

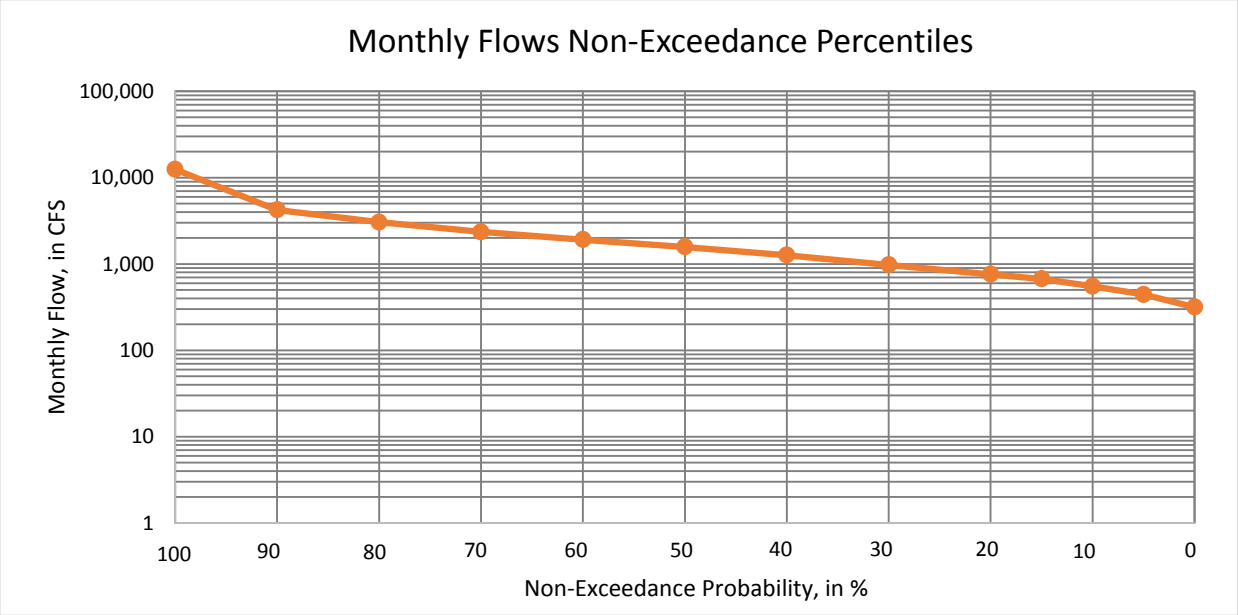
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,291	4,945	4,936	7,587	2,258	3,111	3,015	4,008	1,828	3,786	2,265	2,605	3,625
1976	3,812	2,769	3,044	3,066	3,305	2,018	1,326	1,167	1,537	2,628	3,955	4,570	2,768
1977	4,986	2,655	6,007	2,300	965	767	864	1,586	1,760	1,021	2,822	2,537	2,358
1978	7,445	3,774	5,120	3,017	3,374	2,636	1,302	1,745	617	592	807	1,333	2,647
1979	2,946	5,578	4,032	4,234	1,917	1,286	1,969	956	1,401	1,139	1,535	1,815	2,378
1980	2,274	1,896	6,306	4,919	2,707	1,734	1,078	790	543	744	791	870	2,056
1981	916	3,832	2,643	2,007	767	675	471	727	647	560	629	1,568	1,269
1982	3,480	5,675	3,344	2,876	1,054	824	1,642	1,654	888	673	1,113	2,775	2,146
1983	3,188	4,100	5,392	4,712	2,557	2,152	1,560	981	1,339	726	1,428	3,003	2,585
1984	3,378	2,907	4,534	3,321	3,042	1,066	1,362	1,686	535	499	761	1,094	2,014
1985	1,215	4,827	2,260	1,336	1,258	671	1,015	863	545	897	1,308	2,822	1,565
1986	2,512	2,701	3,040	1,326	656	480	423	496	681	477	862	1,435	1,250
1987	2,611	2,894	3,614	2,075	1,572	2,048	894	529	551	336	699	884	1,550
1988	2,057	2,537	3,975	1,790	659	384	1,440	375	1,148	637	730	743	1,367
1989	932	1,267	1,831	2,169	1,469	2,397	2,863	918	638	1,851	3,514	3,677	1,964
1990	6,402	4,211	10,558	2,783	2,147	1,435	939	480	414	411	524	975	2,608
1991	2,907	3,776	4,744	2,264	2,808	1,874	1,818	1,386	751	600	1,107	1,212	2,097
1992	3,786	4,440	4,825	2,030	947	1,451	1,130	1,205	786	1,105	4,384	3,129	2,421
1993	3,052	3,001	4,636	3,368	1,526	767	853	549	770	701	1,736	1,907	1,899
1994	2,101	3,160	3,713	2,616	1,713	1,806	12,445	2,088	1,213	1,852	1,504	1,846	3,017
1995	1,874	4,932	3,392	2,227	1,240	939	864	935	440	1,816	2,309	2,829	1,964
1996	3,448	4,197	4,911	4,423	1,957	1,309	1,069	1,493	2,750	1,816	1,469	3,040	2,646
1997	4,820	5,044	2,634	1,959	1,785	1,717	1,909	935	514	1,181	2,321	4,263	2,411
1998	4,721	5,560	8,596	4,236	1,449	743	1,267	855	2,152	3,344	1,347	1,585	2,976
1999	2,478	1,832	2,223	1,006	2,137	1,914	1,941	827	511	971	876	1,127	1,489
2000	1,577	1,538	1,544	884	361	333	320	444	685	362	825	1,859	891
2001	2,138	1,413	6,898	3,414	753	1,800	1,144	844	711	529	692	950	1,778
2002	1,068	1,402	1,763	1,719	693	612	673	478	522	599	1,102	1,924	1,044
2003	1,452	1,872	3,350	4,226	1,653	2,831	4,197	3,370	1,946	1,134	1,437	1,720	2,435
2004	1,937	3,552	1,748	1,304	1,613	1,530	1,055	688	1,449	1,031	1,585	1,949	1,606
2005	2,135	2,372	4,925	5,704	1,924	2,233	2,851	2,632	1,210	786	1,271	2,011	2,504
2006	2,626	2,678	2,530	1,164	1,217	411	363	480	499	631	1,066	1,171	1,230
2007	1,718	1,865	1,863	3,420	565	345	563	352	383	433	672	1,578	1,140
2008	2,730	4,403	2,240	2,325	611	442	598	2,012	679	772	1,182	4,821	1,889
2009	2,339	1,428	4,276	5,451	3,058	1,317	1,544	1,392	1,526	1,606	2,283	9,664	3,007
2010	5,959	5,617	3,261	1,699	1,964	1,151	818	678	504	491	737	1,040	1,974
2011	1,444	2,072	1,833	991	388	316	794	350	331	326	405	781	829
2012	910	1,255	952	729	563	599	425	1,438	908	573	467	1,033	819
2013	1,025	5,050	2,539	1,939	1,195	931	6,774	3,594	1,764	1,038	1,077	2,896	2,476
2014	2,818	3,952	2,962	7,715	3,999	1,591	919	670	728	1,241	1,043	2,085	2,461

Non-Exceedance Percentiles

03140201 - Upper Choctawhatchee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	910	1,255	952	729	361	316	320	350	331	326	405	743	819
5th %	931	1,395	1,738	986	554	344	420	374	413	360	521	865	888
10th %	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943	1,130
15th %	1,410	1,788	1,859	1,323	659	475	592	480	510	489	698	1,024	1,247
20th %	1,552	1,871	2,236	1,626	741	609	770	522	521	523	735	1,083	1,348
30th %	2,021	2,487	2,606	1,953	1,027	760	864	685	550	597	819	1,296	1,594
40th %	2,220	2,742	3,042	2,131	1,251	936	984	837	666	658	1,057	1,582	1,938
Median	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852	2,035
60th %	2,854	3,798	3,998	2,932	1,742	1,482	1,312	1,055	827	991	1,324	1,974	2,366
70th %	3,219	4,201	4,669	3,382	1,959	1,754	1,549	1,406	1,211	1,114	1,479	2,656	2,443
80th %	3,541	4,848	4,927	4,234	2,318	1,934	1,916	1,660	1,465	1,314	1,842	2,918	2,589
90th %	4,836	5,101	6,037	4,972	3,043	2,249	2,879	2,142	1,770	1,851	2,371	3,736	2,789
Maximum	7,445	5,675	10,558	7,715	3,999	3,111	12,445	4,008	2,750	3,786	4,384	9,664	3,625
Average	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228	2,029

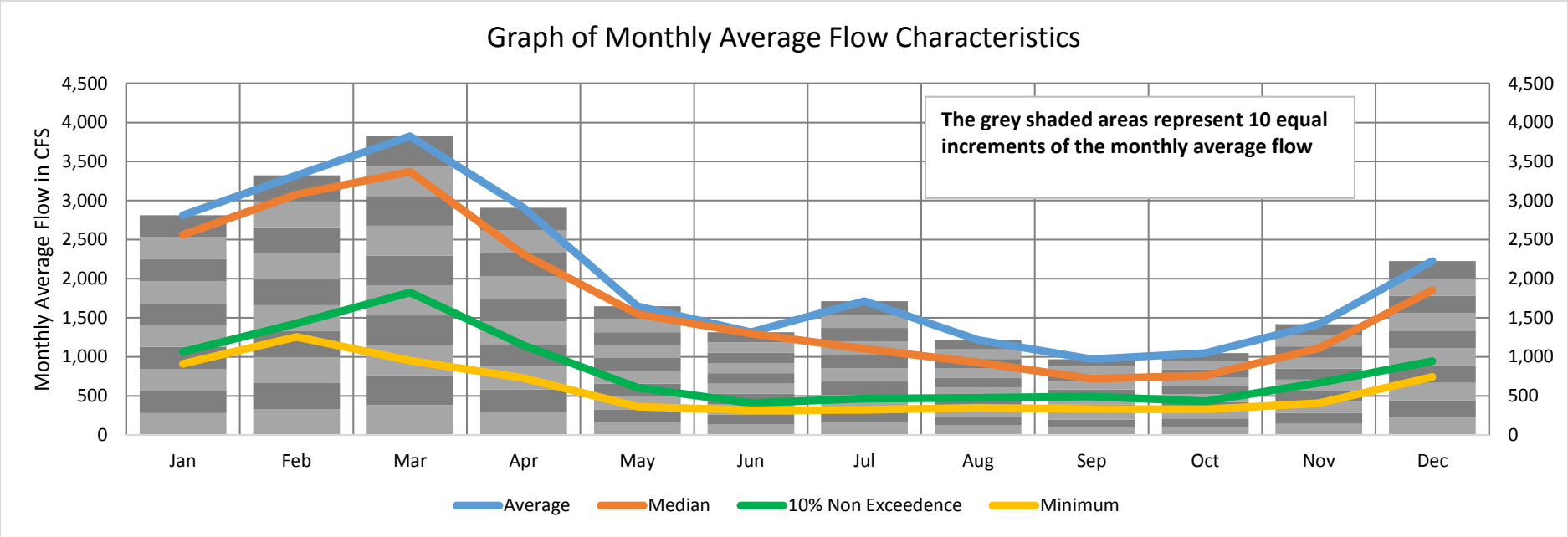
	Flows in CFS
Minimum	315.6
5th %	442
10th %	551
15th %	673
20th %	760
30th %	973
40th %	1,263
Median	1,574
60th %	1,908
70th %	2,349
80th %	3,040
90th %	4,227
Maximum	12,445
Average	2,035



Q10/Q50	0.35
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.20
Q5/DA	0.28
Q10/DA	0.35
Q15/DA	0.43
Q20/DA	0.49
Q30/DA	0.62
Q40/DA	0.81
Q50/DA	1.01
Q60/DA	1.22
Q70/DA	1.51
Q80/DA	1.95
Q90/DA	2.71
Qmax/DA	7.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

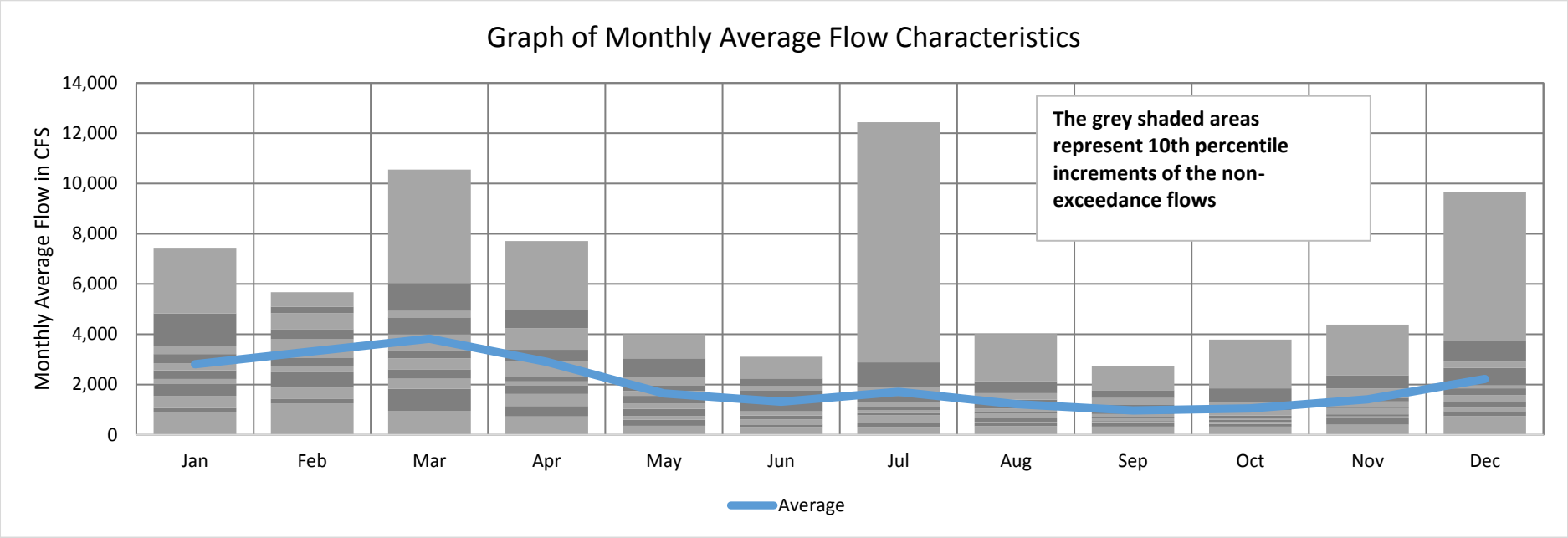
Site #: 03140201 Name: Upper Choctawhatchee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228
100%	7,445	5,675	10,558	7,715	3,999	3,111	12,445	4,008	2,750	3,786	4,384	9,664
98%	6,631	5,630	9,028	7,615	3,511	2,892	8,022	3,685	2,284	3,441	4,050	5,887
95%	5,981	5,580	6,983	5,798	3,309	2,646	4,326	3,381	1,956	2,664	3,536	4,582
90%	4,836	5,101	6,037	4,972	3,043	2,249	2,879	2,142	1,770	1,851	2,371	3,736
75%	3,395	4,413	4,847	3,621	2,139	1,823	1,686	1,516	1,355	1,150	1,548	2,824
50%	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852
25%	1,835	2,028	2,463	1,772	902	674	844	640	541	570	783	1,160
10%	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943
5%	931	1,395	1,738	986	554	344	420	374	413	360	521	865
2%	915	1,264	1,414	850	382	329	353	352	372	334	453	773
0%	910	1,255	952	729	361	316	320	350	331	326	405	743

Site #: 03140201 Name: Upper Choctawhatchee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,560 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,813	3,324	3,825	2,908	1,646	1,316	1,712	1,216	970	1,048	1,416	2,228
100%	7,445	5,675	10,558	7,715	3,999	3,111	12,445	4,008	2,750	3,786	4,384	9,664
98%	6,631	5,630	9,028	7,615	3,511	2,892	8,022	3,685	2,284	3,441	4,050	5,887
95%	5,981	5,580	6,983	5,798	3,309	2,646	4,326	3,381	1,956	2,664	3,536	4,582
90%	4,836	5,101	6,037	4,972	3,043	2,249	2,879	2,142	1,770	1,851	2,371	3,736
75%	3,395	4,413	4,847	3,621	2,139	1,823	1,686	1,516	1,355	1,150	1,548	2,824
50%	2,562	3,080	3,371	2,313	1,549	1,298	1,104	926	719	758	1,110	1,852
25%	1,835	2,028	2,463	1,772	902	674	844	640	541	570	783	1,160
10%	1,063	1,427	1,824	1,148	607	409	466	475	493	430	668	943
5%	931	1,395	1,738	986	554	344	420	374	413	360	521	865
2%	915	1,264	1,414	850	382	329	353	352	372	334	453	773
0%	910	1,255	952	729	361	316	320	350	331	326	405	743

Monthly Flows (in CFS) for

03140203 - Lower Choctawhatchee River Subbasin in Alabama

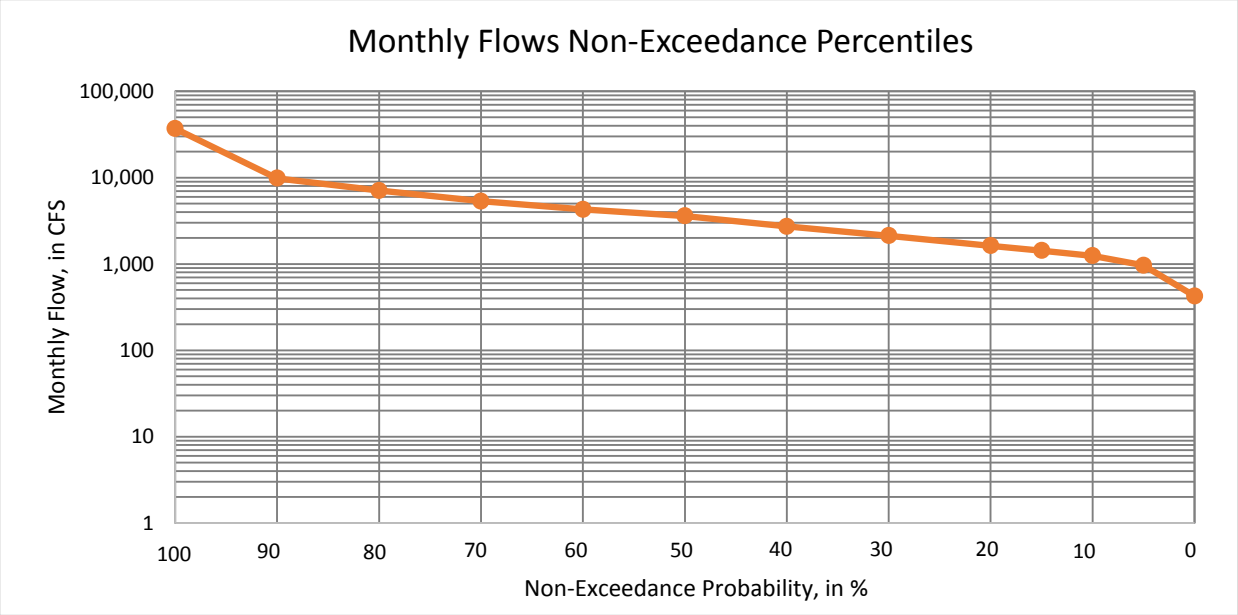
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	5,259	9,091	10,185	19,905	5,113	6,795	4,551	12,563	5,949	13,274	6,885	6,539	8,829
1976	7,774	7,660	6,691	7,238	9,456	6,472	3,147	2,640	2,729	4,433	4,795	10,533	6,127
1977	9,059	5,255	11,252	5,704	1,971	1,685	1,590	3,858	3,718	2,167	5,638	4,819	4,728
1978	15,278	10,838	12,335	7,468	11,852	6,620	3,099	3,872	1,428	1,219	1,608	2,971	6,539
1979	6,721	12,532	12,079	9,596	5,053	2,723	4,000	2,270	3,264	3,033	3,439	4,138	5,692
1980	5,003	4,370	18,251	15,662	7,497	3,818	2,288	1,709	1,411	1,489	2,197	2,049	5,485
1981	1,940	9,600	5,186	3,794	2,042	1,586	1,213	1,467	1,299	966	1,196	2,233	2,662
1982	7,606	14,082	7,215	4,975	3,067	1,645	2,817	3,522	1,827	1,371	1,860	5,708	4,586
1983	7,287	10,159	10,966	13,370	5,447	4,209	4,379	2,274	2,860	1,596	2,582	6,668	5,951
1984	7,314	5,968	12,103	6,399	4,327	1,915	2,208	3,619	1,308	1,037	1,446	2,214	4,155
1985	2,159	8,492	5,275	2,578	2,496	1,407	1,688	1,796	1,547	1,823	3,284	6,872	3,254
1986	6,563	7,750	8,011	2,764	1,541	1,242	1,060	1,107	1,366	1,106	1,631	3,468	3,111
1987	5,802	6,288	7,405	4,926	3,288	4,059	2,405	1,906	1,399	881	1,452	1,623	3,435
1988	4,148	5,988	8,451	3,981	1,510	991	2,592	1,388	5,075	2,854	2,520	2,160	3,454
1989	2,872	3,661	5,691	6,157	3,565	10,836	8,332	2,670	1,719	4,455	10,263	8,104	5,693
1990	17,032	11,053	23,646	6,742	6,013	3,437	2,212	1,385	979	1,093	1,281	1,759	6,383
1991	5,166	11,261	13,023	4,363	8,442	4,736	4,900	3,388	1,912	1,346	2,176	2,444	5,235
1992	8,390	13,179	10,419	4,724	2,044	4,968	3,037	3,123	2,206	2,119	8,647	9,725	6,000
1993	8,779	7,048	10,376	8,425	2,941	1,617	1,978	1,320	1,880	1,070	3,228	3,287	4,313
1994	4,071	7,314	7,938	7,077	2,937	5,809	36,943	6,499	3,213	5,026	2,571	4,543	7,867
1995	4,795	10,317	8,657	6,358	5,173	2,096	1,742	3,899	1,299	5,630	5,535	5,053	5,016
1996	5,652	10,220	9,179	10,988	4,252	2,845	2,067	2,141	3,842	4,018	2,121	4,269	5,093
1997	7,356	9,236	6,977	3,770	4,924	3,386	4,252	2,927	1,220	1,349	4,438	8,211	4,819
1998	11,726	12,279	18,560	7,198	3,174	1,533	1,863	2,183	3,053	9,344	2,724	2,387	6,316
1999	3,790	3,075	4,301	1,852	3,312	3,521	5,780	1,778	1,027	1,366	1,321	1,977	2,765
2000	2,720	2,584	2,977	1,700	613	526	425	560	736	539	1,413	2,635	1,447
2001	3,737	2,705	15,574	6,461	1,544	4,041	1,825	2,633	1,633	1,046	1,270	1,659	3,689
2002	1,945	2,718	3,953	4,156	921	821	980	835	925	1,495	3,357	4,406	2,204
2003	3,656	4,272	10,386	8,637	4,029	6,903	9,184	8,259	4,012	2,203	2,699	3,643	5,669
2004	3,834	9,033	4,079	2,121	3,789	4,824	3,448	1,606	5,468	2,872	4,423	5,462	4,208
2005	4,717	4,699	6,870	17,345	4,968	4,336	5,960	7,081	2,828	1,663	2,123	4,236	5,564
2006	5,671	5,107	4,945	2,197	2,738	851	765	1,087	1,156	1,240	2,715	2,100	2,536
2007	4,057	3,751	3,932	6,334	1,104	653	1,517	703	786	1,072	1,737	3,619	2,429
2008	6,747	9,804	5,539	5,119	1,446	1,107	1,268	3,339	1,781	1,486	1,550	8,155	3,914
2009	4,562	3,076	10,130	15,455	8,214	4,144	4,085	4,593	3,930	4,472	6,138	22,120	7,615
2010	13,900	15,544	8,150	3,577	4,358	2,336	1,666	1,408	847	855	1,327	1,793	4,586
2011	2,416	3,644	3,668	1,979	768	528	1,408	753	770	488	631	1,585	1,542
2012	2,350	3,448	2,685	2,086	1,265	1,662	976	3,948	4,241	1,650	993	2,428	2,302
2013	2,367	15,465	8,310	4,615	2,334	2,004	15,042	9,469	4,863	2,466	2,297	6,026	6,227
2014	6,795	8,316	7,032	18,497	10,868	3,714	2,414	1,563	1,430	2,048	1,659	4,181	5,682

Non-Exceedance Percentiles

03140203 - Lower Choctawhatchee River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585	1,447
5th %	2,148	2,717	3,633	1,972	913	647	965	750	786	840	1,185	1,657	2,171
10th %	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789	2,416
15th %	2,674	3,615	4,268	2,521	1,500	1,090	1,260	1,288	1,020	1,045	1,326	2,038	2,643
20th %	3,499	3,733	5,138	3,415	1,543	1,374	1,495	1,388	1,207	1,072	1,439	2,148	3,042
30th %	3,990	4,985	6,391	4,104	2,247	1,637	1,725	1,593	1,348	1,234	1,624	2,415	3,619
40th %	4,655	6,168	7,141	4,845	2,939	1,969	2,031	1,862	1,430	1,369	2,017	3,161	4,271
Median	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891	4,773
60th %	6,107	9,056	8,866	6,424	4,118	3,598	2,905	2,773	2,029	1,913	2,629	4,324	5,335
70th %	6,943	9,910	10,379	7,210	4,937	4,084	3,614	3,428	2,918	2,282	3,245	5,176	5,685
80th %	7,640	10,881	11,417	8,829	5,228	4,753	4,413	3,877	3,743	3,230	4,426	6,565	6,025
90th %	9,325	12,596	13,278	15,476	8,237	6,486	6,197	6,557	4,303	4,528	5,688	8,161	6,399
Maximum	17,032	15,544	23,646	19,905	11,852	10,836	36,943	12,563	5,949	13,274	10,263	22,120	8,829
Average	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695	4,678

	Flows in CFS
Minimum	425.5
5th %	964
10th %	1,242
15th %	1,426
20th %	1,622
30th %	2,121
40th %	2,719
Median	3,598
60th %	4,284
70th %	5,326
80th %	7,077
90th %	9,836
Maximum	36,943
Average	4,694

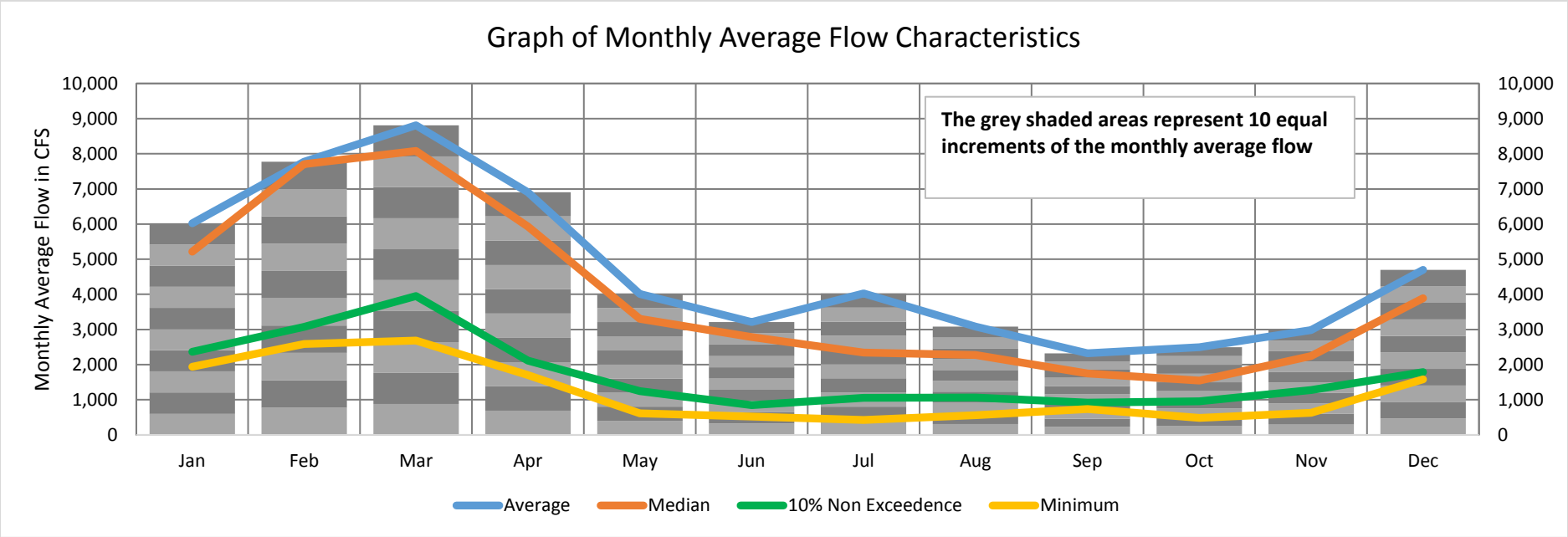


Q10/Q50	0.35
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.13
Q5/DA	0.31
Q10/DA	0.39
Q15/DA	0.45
Q20/DA	0.51
Q30/DA	0.67
Q40/DA	0.86
Q50/DA	1.14
Q60/DA	1.36
Q70/DA	1.69
Q80/DA	2.24
Q90/DA	3.11
Qmax/DA	11.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 03140203 Name: Lower Choctawhatchee River Subbasin in Alabama

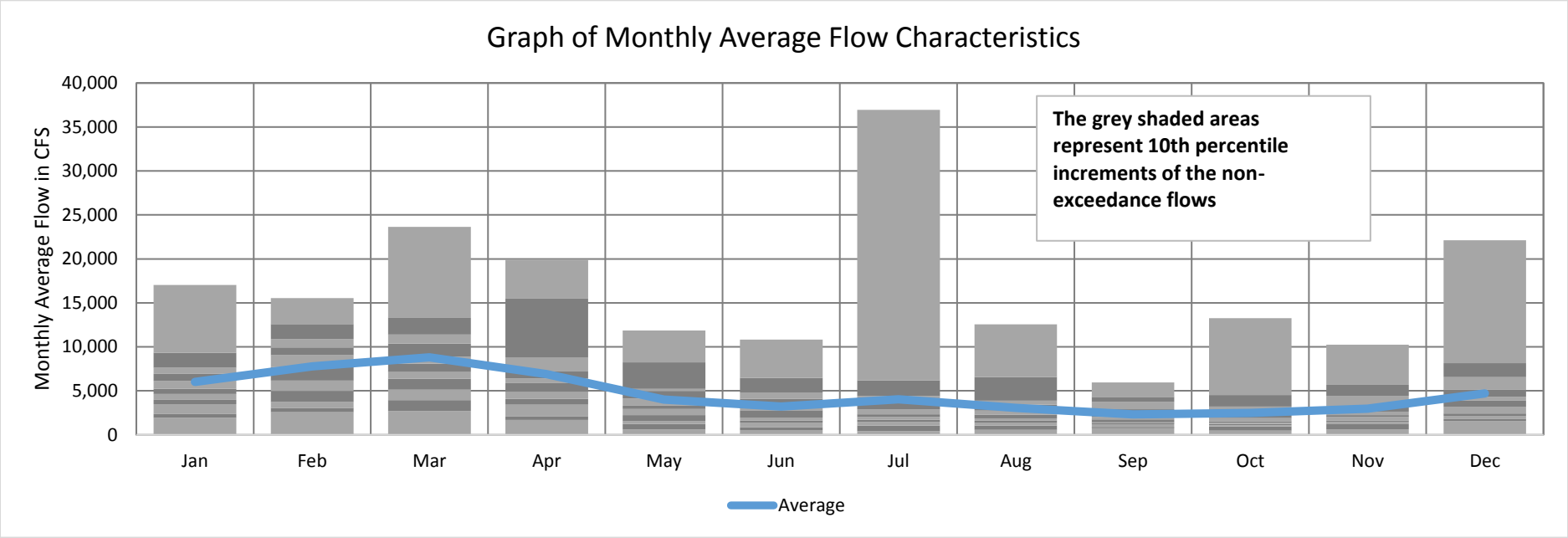
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695
100%	17,032	15,544	23,646	19,905	11,852	10,836	36,943	12,563	5,949	13,274	10,263	22,120
98%	15,664	15,483	19,679	18,807	11,085	7,768	19,860	10,150	5,574	10,209	9,002	13,082
95%	13,969	14,151	18,267	17,403	9,526	6,801	9,477	8,320	5,095	5,815	6,973	9,765
90%	9,325	12,596	13,278	15,476	8,237	6,486	6,197	6,557	4,303	4,528	5,688	8,161
75%	7,325	10,244	10,556	7,707	5,068	4,241	4,127	3,679	3,226	2,859	3,377	5,787
50%	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891
25%	3,777	4,345	5,473	3,788	2,024	1,573	1,647	1,452	1,299	1,103	1,526	2,228
10%	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789
5%	2,148	2,717	3,633	1,972	913	647	965	750	786	840	1,185	1,657
2%	1,944	2,679	2,913	1,818	734	527	690	672	762	528	914	1,614
0%	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585

Site #: 03140203 Name: Lower Choctawhatchee River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 3,159 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6,025	7,772	8,810	6,907	4,010	3,210	4,028	3,078	2,323	2,492	2,979	4,695
100%	17,032	15,544	23,646	19,905	11,852	10,836	36,943	12,563	5,949	13,274	10,263	22,120
98%	15,664	15,483	19,679	18,807	11,085	7,768	19,860	10,150	5,574	10,209	9,002	13,082
95%	13,969	14,151	18,267	17,403	9,526	6,801	9,477	8,320	5,095	5,815	6,973	9,765
90%	9,325	12,596	13,278	15,476	8,237	6,486	6,197	6,557	4,303	4,528	5,688	8,161
75%	7,325	10,244	10,556	7,707	5,068	4,241	4,127	3,679	3,226	2,859	3,377	5,787
50%	5,213	7,705	8,081	5,930	3,300	2,784	2,346	2,272	1,750	1,546	2,247	3,891
25%	3,777	4,345	5,473	3,788	2,024	1,573	1,647	1,452	1,299	1,103	1,526	2,228
10%	2,365	3,076	3,951	2,118	1,249	848	1,052	1,062	917	958	1,280	1,789
5%	2,148	2,717	3,633	1,972	913	647	965	750	786	840	1,185	1,657
2%	1,944	2,679	2,913	1,818	734	527	690	672	762	528	914	1,614
0%	1,940	2,584	2,685	1,700	613	526	425	560	736	488	631	1,585

Monthly Flows (in CFS) for
03140301 - Upper Conecuh River Subbasin

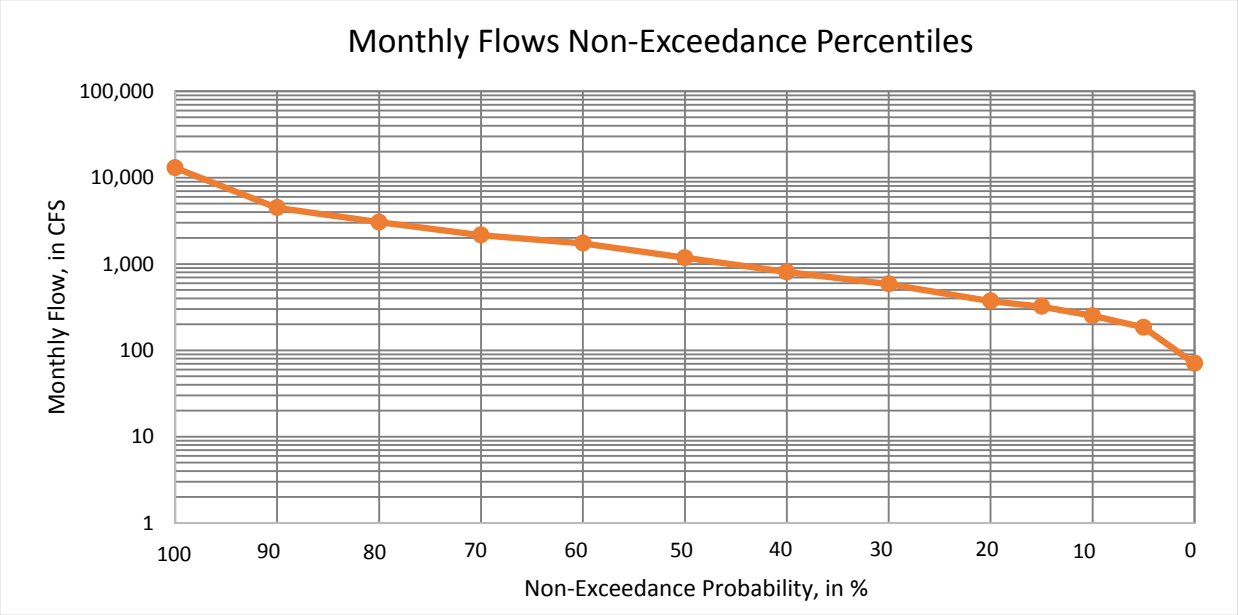
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,288	8,267	6,586	5,600	2,019	2,146	1,775	4,411	4,382	5,499	2,954	2,608	4,098
1976	4,013	2,847	3,803	3,630	5,255	2,799	1,014	742	638	678	1,350	3,960	2,563
1977	3,529	2,033	6,459	2,809	672	488	584	813	618	501	1,412	1,108	1,755
1978	7,100	3,199	3,303	2,643	4,003	1,951	728	1,201	312	230	371	792	2,153
1979	2,541	6,291	5,911	5,870	1,810	751	1,344	927	901	620	963	1,649	2,437
1980	2,326	1,997	5,525	7,392	3,357	1,093	449	325	312	442	554	597	2,028
1981	513	3,912	1,931	1,485	523	361	214	299	282	169	302	1,007	895
1982	3,221	5,600	2,412	2,189	2,114	489	1,100	1,101	383	309	641	2,553	1,822
1983	3,259	5,121	6,229	4,874	1,411	1,748	1,606	504	855	357	1,330	3,270	2,530
1984	3,421	2,669	4,086	1,880	1,373	354	287	1,133	227	178	358	1,025	1,414
1985	923	3,275	2,751	1,055	962	218	287	392	315	373	632	2,333	1,115
1986	1,931	2,591	6,111	1,074	461	322	185	164	461	229	814	1,459	1,314
1987	2,190	3,580	3,510	2,111	1,260	1,382	724	283	176	130	360	571	1,342
1988	2,956	2,382	3,713	1,802	405	164	363	170	653	558	712	621	1,203
1989	1,029	1,123	2,697	4,535	1,205	5,759	4,108	596	346	698	2,060	3,066	2,268
1990	6,441	5,435	12,978	3,252	1,827	740	478	249	146	201	255	495	2,703
1991	1,419	2,572	4,479	2,088	2,914	1,394	1,303	511	418	253	785	1,156	1,605
1992	4,552	5,042	3,000	1,771	587	1,393	860	489	333	371	5,057	4,785	2,333
1993	3,482	3,040	4,469	3,400	925	343	520	569	555	356	1,271	1,606	1,704
1994	1,748	3,092	2,427	1,694	663	1,141	7,929	2,116	671	1,127	971	1,759	2,114
1995	1,929	4,424	4,694	1,730	634	532	277	355	202	3,865	2,022	3,463	2,000
1996	3,888	5,797	4,559	5,080	1,824	1,010	552	580	1,929	578	725	1,111	2,275
1997	2,424	4,454	2,673	1,838	2,622	1,811	1,066	478	188	507	2,127	5,551	2,133
1998	4,842	5,759	9,095	2,562	826	333	374	323	2,637	4,279	794	742	2,701
1999	1,739	1,937	3,584	1,209	1,726	1,986	3,286	492	199	350	348	671	1,462
2000	943	777	1,516	678	162	103	70	85	142	150	400	780	483
2001	1,905	1,465	11,306	3,495	565	1,828	597	1,161	596	327	670	1,034	2,089
2002	1,188	1,685	2,624	1,371	300	264	397	258	266	1,154	1,936	2,698	1,177
2003	1,958	2,187	4,503	4,216	2,437	4,475	4,855	3,525	2,139	724	1,041	1,682	2,815
2004	1,942	4,127	2,080	767	737	1,514	1,020	704	3,754	1,000	1,984	2,367	1,812
2005	1,560	2,263	2,221	7,467	1,267	1,247	2,240	3,086	1,119	756	753	1,496	2,116
2006	1,850	2,205	2,097	882	1,719	258	179	186	203	287	1,084	452	944
2007	1,660	1,248	1,229	1,857	241	149	202	76	121	209	355	908	684
2008	2,329	3,246	2,258	1,758	241	88	111	1,645	673	271	434	2,364	1,275
2009	1,765	998	3,929	5,715	2,578	1,331	571	749	1,640	998	2,887	10,750	2,840
2010	6,985	6,066	5,309	1,458	2,043	712	350	539	238	233	557	763	2,087
2011	944	2,013	2,657	1,214	188	85	251	107	202	83	198	649	708
2012	862	1,855	1,197	1,230	460	723	246	309	846	195	143	709	722
2013	1,165	6,053	3,591	1,825	601	372	3,146	2,608	560	291	339	1,444	1,810
2014	2,330	3,981	2,938	8,255	2,683	1,175	560	525	300	351	477	1,202	2,044

Non-Exceedance Percentiles

03140301 - Upper Conecuh River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	513	777	1,197	678	162	85	70	76	121	83	143	452	483
5th %	920	1,117	1,502	876	238	103	176	106	146	149	252	567	707
10th %	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619	878
15th %	1,145	1,829	2,202	1,214	452	252	241	239	201	200	354	668	1,089
20th %	1,373	1,985	2,381	1,343	511	311	272	278	203	225	359	736	1,197
30th %	1,745	2,199	2,668	1,719	624	359	359	324	277	266	464	873	1,392
40th %	1,919	2,584	2,975	1,816	791	515	466	485	314	320	638	1,079	1,734
Median	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323	1,911
60th %	2,367	3,397	3,992	2,595	1,534	1,155	726	587	574	465	874	1,623	2,088
70th %	3,232	4,216	4,520	3,428	1,825	1,385	1,034	768	658	591	1,140	2,343	2,139
80th %	3,492	5,184	5,603	4,603	2,178	1,761	1,396	1,139	864	730	1,517	2,626	2,354
90th %	4,581	5,823	6,472	5,730	2,706	2,002	3,160	2,165	1,950	1,130	2,067	3,512	2,701
Maximum	7,100	8,267	12,978	8,255	5,255	5,759	7,929	4,411	4,382	5,499	5,057	10,750	4,098
Average	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931	1,839

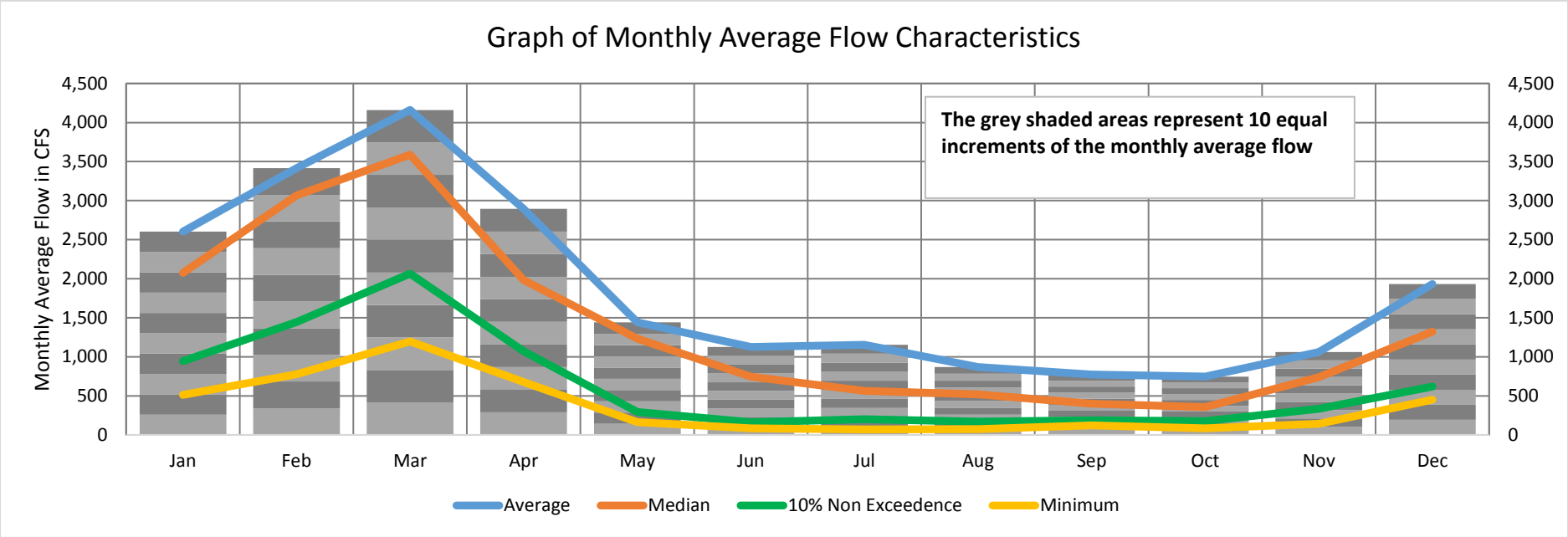
	Flows in CFS
Minimum	70.4
5th %	184
10th %	251
15th %	321
20th %	372
30th %	586
40th %	805
Median	1,182
60th %	1,733
70th %	2,158
80th %	3,045
90th %	4,470
Maximum	12,978
Average	1,848



Q10/Q50	0.21
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.05
Q5/DA	0.13
Q10/DA	0.17
Q15/DA	0.22
Q20/DA	0.26
Q30/DA	0.41
Q40/DA	0.56
Q50/DA	0.82
Q60/DA	1.20
Q70/DA	1.49
Q80/DA	2.11
Q90/DA	3.09
Qmax/DA	8.98

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

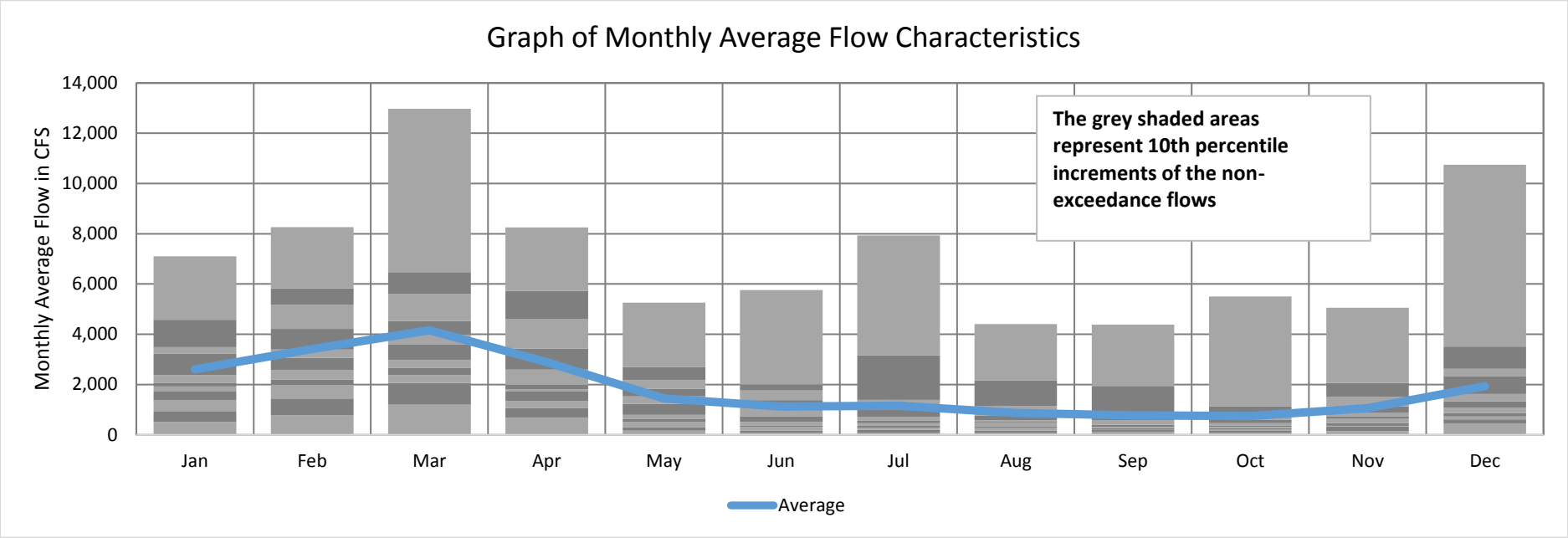
Site #: 03140301 Name: Upper Conecuh River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931
100%	7,100	8,267	12,978	8,255	5,255	5,759	7,929	4,411	4,382	5,499	5,057	10,750
98%	7,010	6,726	11,674	7,641	4,278	4,758	5,531	3,720	3,892	4,547	3,417	6,695
95%	6,468	6,077	9,205	7,395	3,389	2,883	4,145	3,108	2,693	3,886	2,891	4,824
90%	4,581	5,823	6,472	5,730	2,706	2,002	3,160	2,165	1,950	1,130	2,067	3,512
75%	3,322	4,601	4,848	3,777	2,025	1,424	1,150	970	716	683	1,335	2,414
50%	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323
25%	1,635	2,028	2,575	1,478	581	341	287	306	235	232	393	776
10%	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619
5%	920	1,117	1,502	876	238	103	176	106	146	149	252	567
2%	785	949	1,222	747	182	88	102	83	137	120	186	486
0%	513	777	1,197	678	162	85	70	76	121	83	143	452

Site #: 03140301 Name: Upper Conecuh River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,446 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,602	3,415	4,161	2,894	1,440	1,126	1,155	870	773	747	1,061	1,931
100%	7,100	8,267	12,978	8,255	5,255	5,759	7,929	4,411	4,382	5,499	5,057	10,750
98%	7,010	6,726	11,674	7,641	4,278	4,758	5,531	3,720	3,892	4,547	3,417	6,695
95%	6,468	6,077	9,205	7,395	3,389	2,883	4,145	3,108	2,693	3,886	2,891	4,824
90%	4,581	5,823	6,472	5,730	2,706	2,002	3,160	2,165	1,950	1,130	2,067	3,512
75%	3,322	4,601	4,848	3,777	2,025	1,424	1,150	970	716	683	1,335	2,414
50%	2,074	3,066	3,587	1,984	1,232	745	565	518	401	356	739	1,323
25%	1,635	2,028	2,575	1,478	581	341	287	306	235	232	393	776
10%	944	1,444	2,065	1,072	294	163	201	169	187	177	336	619
5%	920	1,117	1,502	876	238	103	176	106	146	149	252	567
2%	785	949	1,222	747	182	88	102	83	137	120	186	486
0%	513	777	1,197	678	162	85	70	76	121	83	143	452

Monthly Flows (in CFS) for
03140302 - Patsaliga Creek Subbasin

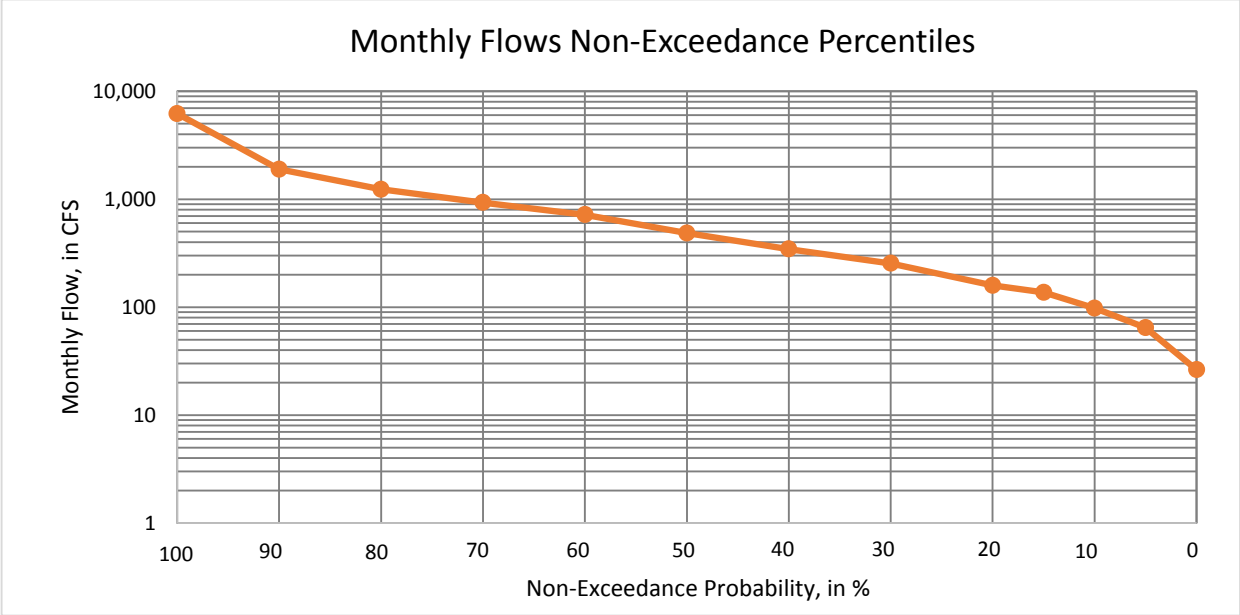
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,483	3,361	2,671	2,302	909	928	659	1,873	2,184	2,402	1,280	1,126	1,753
1976	2,029	1,168	1,747	1,668	2,470	1,213	457	327	288	263	596	1,643	1,158
1977	1,481	786	2,756	1,237	327	246	356	413	301	237	490	424	756
1978	2,711	1,207	1,285	1,128	1,676	1,012	340	477	151	109	200	391	891
1979	1,128	2,705	2,454	2,462	691	320	557	411	386	231	401	671	1,023
1980	1,029	798	2,340	2,995	1,316	393	170	137	142	206	236	255	834
1981	217	1,350	719	581	211	130	60	89	103	59	109	389	327
1982	1,215	2,356	992	872	926	207	394	431	159	153	275	994	739
1983	1,339	2,128	2,644	2,094	603	748	695	234	411	172	672	1,452	1,092
1984	1,469	1,139	1,666	825	530	150	123	622	96	77	156	418	605
1985	407	1,503	1,241	466	470	88	144	140	111	139	301	955	491
1986	771	1,047	2,542	463	206	152	74	70	265	82	308	519	540
1987	744	1,481	1,378	849	581	494	286	139	59	46	164	268	535
1988	1,110	1,017	1,399	720	137	64	144	69	309	205	313	300	479
1989	429	372	1,011	1,893	411	2,135	1,562	221	131	252	763	1,229	867
1990	2,564	2,341	6,208	1,524	737	273	185	112	54	72	101	229	1,198
1991	601	1,060	1,906	940	1,223	477	315	162	180	102	270	351	631
1992	1,735	2,249	1,072	656	239	671	406	253	141	157	2,365	2,047	989
1993	1,507	1,222	1,917	1,539	420	146	220	301	218	160	495	668	732
1994	728	1,232	1,036	722	290	474	2,529	886	257	499	406	792	821
1995	795	1,607	1,766	618	219	268	111	133	76	1,414	749	1,138	738
1996	1,414	2,183	1,880	2,069	855	381	269	263	937	271	334	553	941
1997	1,136	2,020	1,255	823	1,112	902	466	207	67	180	843	2,257	933
1998	1,912	2,214	3,766	1,094	350	145	159	130	1,646	2,093	380	359	1,183
1999	749	840	1,521	506	700	964	1,444	243	104	172	177	334	647
2000	441	361	716	271	61	31	34	58	70	29	200	445	226
2001	1,046	750	5,016	1,580	223	698	219	436	189	98	411	489	933
2002	569	804	1,333	625	158	108	188	100	105	486	781	935	515
2003	720	912	1,861	1,963	917	1,826	2,133	1,690	1,010	314	424	966	1,230
2004	886	1,841	789	282	267	666	324	265	1,838	426	867	982	776
2005	684	964	1,293	3,178	485	534	949	940	340	275	349	855	901
2006	975	1,059	995	307	914	83	55	62	64	125	357	243	434
2007	751	483	514	590	69	42	69	26	35	65	122	234	249
2008	897	1,227	835	627	119	42	49	659	134	86	170	682	457
2009	674	362	2,006	1,749	844	417	211	302	896	363	1,104	4,229	1,103
2010	2,674	2,298	2,674	629	835	299	149	153	80	94	219	278	859
2011	353	866	1,148	535	89	53	149	41	51	34	97	285	305
2012	312	733	585	556	211	282	73	72	296	75	62	294	292
2013	474	2,479	1,319	727	259	174	1,075	806	200	124	154	629	691
2014	980	1,755	1,296	3,677	1,059	555	229	256	100	142	224	602	897

Non-Exceedance Percentiles

03140302 - Patsaliga Creek Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	217	361	514	271	61	31	34	26	35	29	62	229	226
5th %	351	372	709	306	88	42	54	57	54	46	101	242	290
10th %	427	708	782	466	136	63	68	68	63	64	121	266	325
15th %	469	780	969	531	199	87	74	72	69	75	156	284	453
20th %	595	803	1,008	576	211	126	121	98	79	81	169	299	489
30th %	725	949	1,213	627	253	152	149	136	103	101	213	380	585
40th %	763	1,059	1,295	721	341	259	187	158	133	133	273	437	716
Median	936	1,214	1,389	837	477	310	224	238	155	158	323	577	766
60th %	1,072	1,402	1,754	1,107	638	439	318	263	207	190	388	675	863
70th %	1,252	1,781	1,910	1,551	837	540	397	352	290	241	444	941	911
80th %	1,481	2,189	2,472	1,907	914	708	578	444	349	283	688	1,020	996
90th %	1,923	2,343	2,682	2,318	1,123	969	1,112	814	945	488	845	1,471	1,160
Maximum	2,711	3,361	6,208	3,677	2,470	2,135	2,529	1,873	2,184	2,402	2,365	4,229	1,753
Average	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798	769

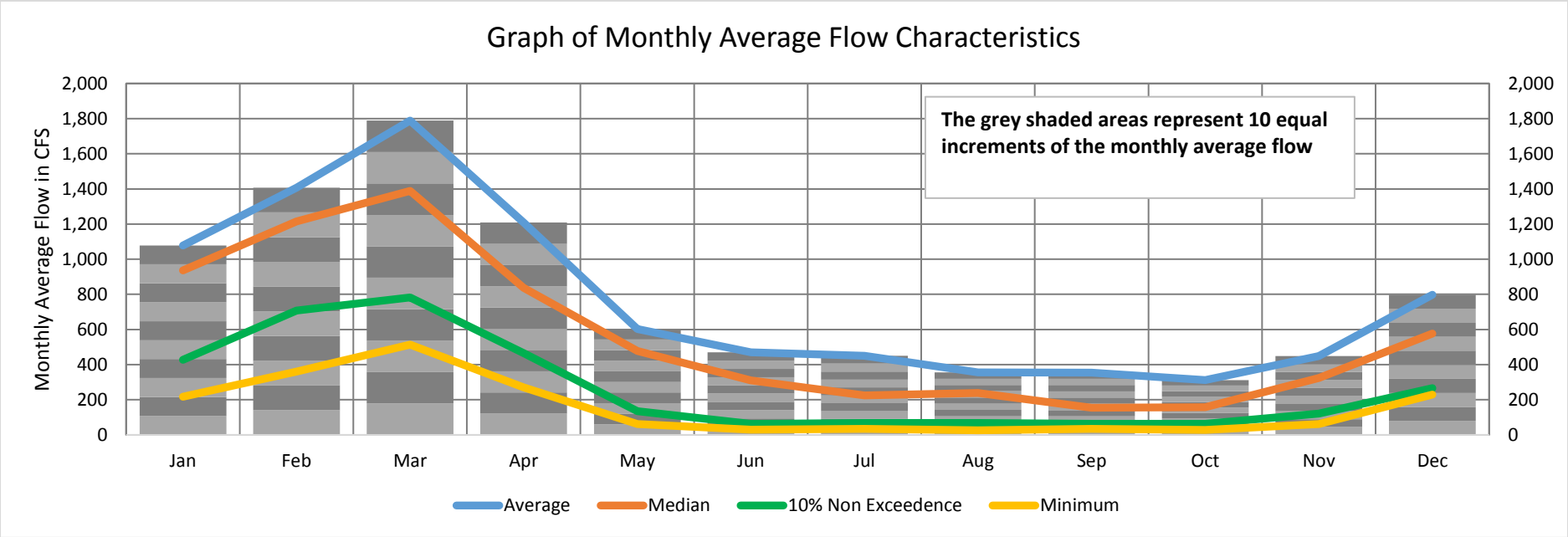
	Flows in CFS
Minimum	26.3
5th %	65
10th %	98
15th %	137
20th %	159
30th %	254
40th %	345
Median	484
60th %	717
70th %	930
80th %	1,233
90th %	1,894
Maximum	6,208
Average	773



Q10/Q50	0.20
Q10/Q90	0.05
	CFSM*
Qmin/DA	0.04
Q5/DA	0.11
Q10/DA	0.16
Q15/DA	0.23
Q20/DA	0.27
Q30/DA	0.43
Q40/DA	0.58
Q50/DA	0.82
Q60/DA	1.21
Q70/DA	1.57
Q80/DA	2.08
Q90/DA	3.19
Qmax/DA	10.47

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

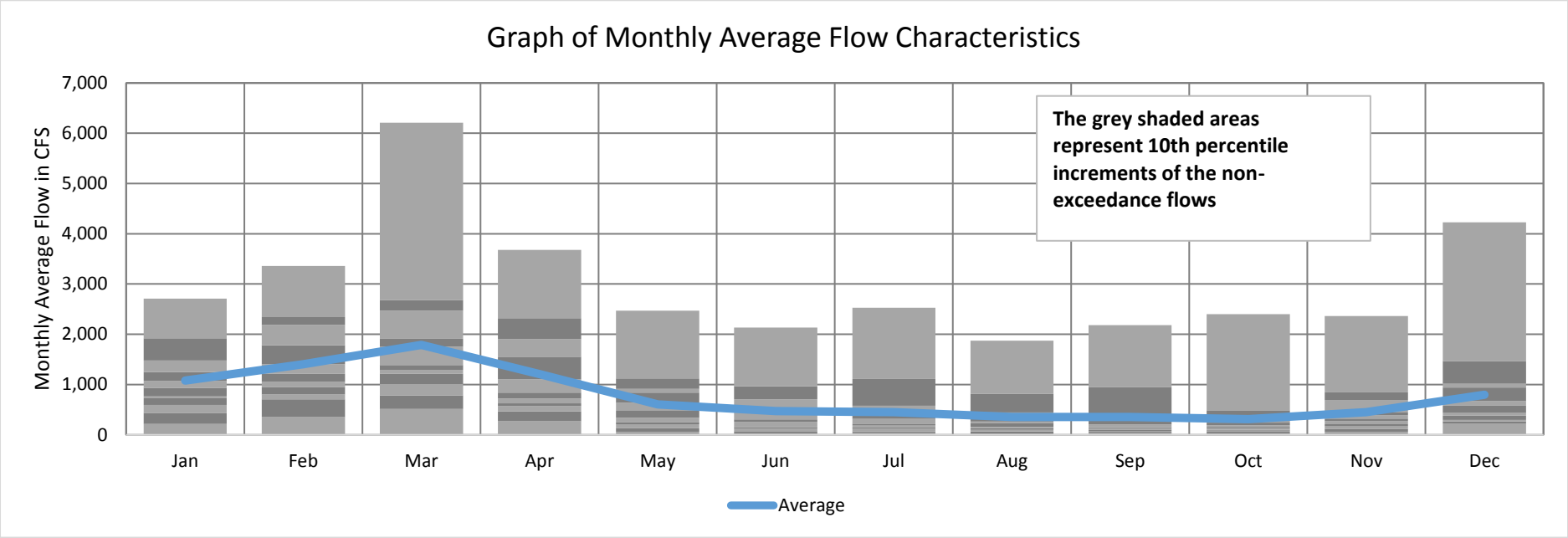
Site #: 03140302 Name: Patsaliga Creek Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798
100%	2,711	3,361	6,208	3,677	2,470	2,135	2,529	1,873	2,184	2,402	2,365	4,229
98%	2,682	2,849	5,278	3,288	1,850	1,894	2,220	1,731	1,914	2,161	1,519	2,691
95%	2,569	2,491	3,828	3,004	1,334	1,244	1,590	977	1,656	1,448	1,113	2,058
90%	1,923	2,343	2,682	2,318	1,123	969	1,112	814	945	488	845	1,471
75%	1,428	2,047	2,089	1,688	868	667	459	417	303	265	520	970
50%	936	1,214	1,389	837	477	310	224	238	155	158	323	577
25%	682	859	1,063	611	222	146	144	126	99	92	194	347
10%	427	708	782	466	136	63	68	68	63	64	121	266
5%	351	372	709	306	88	42	54	57	54	46	101	242
2%	291	361	570	280	67	39	45	37	48	33	89	233
0%	217	361	514	271	61	31	34	26	35	29	62	229

Site #: 03140302 Name: Patsaliga Creek Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 593 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,078	1,407	1,789	1,209	603	470	451	355	355	312	448	798
100%	2,711	3,361	6,208	3,677	2,470	2,135	2,529	1,873	2,184	2,402	2,365	4,229
98%	2,682	2,849	5,278	3,288	1,850	1,894	2,220	1,731	1,914	2,161	1,519	2,691
95%	2,569	2,491	3,828	3,004	1,334	1,244	1,590	977	1,656	1,448	1,113	2,058
90%	1,923	2,343	2,682	2,318	1,123	969	1,112	814	945	488	845	1,471
75%	1,428	2,047	2,089	1,688	868	667	459	417	303	265	520	970
50%	936	1,214	1,389	837	477	310	224	238	155	158	323	577
25%	682	859	1,063	611	222	146	144	126	99	92	194	347
10%	427	708	782	466	136	63	68	68	63	64	121	266
5%	351	372	709	306	88	42	54	57	54	46	101	242
2%	291	361	570	280	67	39	45	37	48	33	89	233
0%	217	361	514	271	61	31	34	26	35	29	62	229

Monthly Flows (in CFS) for
03150105 - Upper Coosa River Subbasin

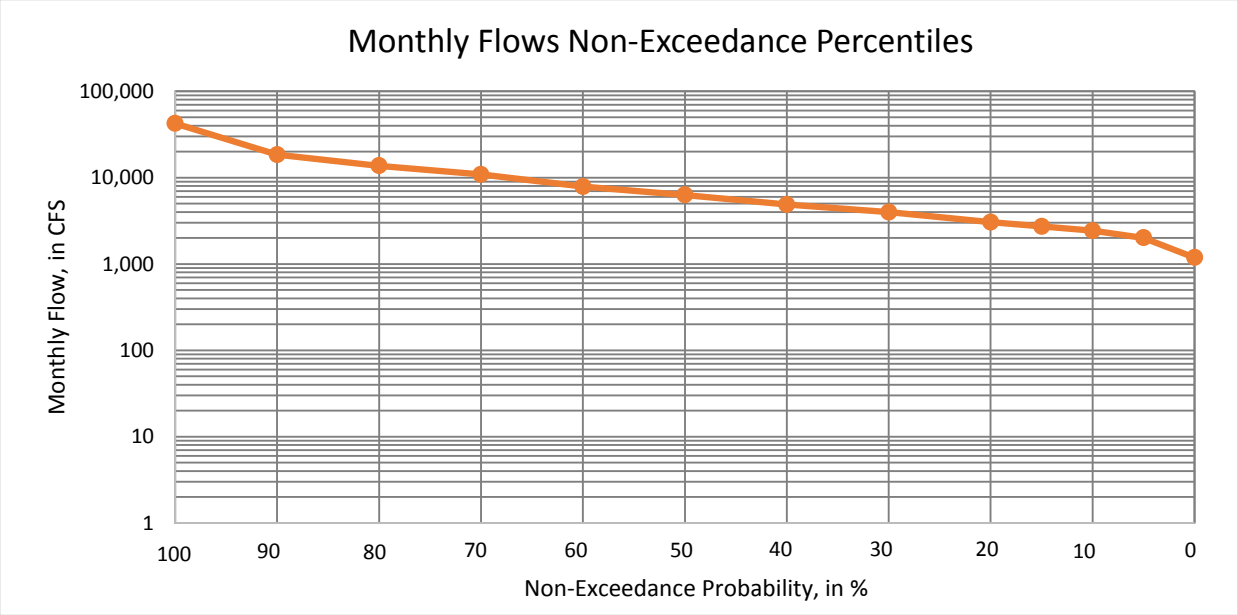
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	15,751	22,680	20,692	13,440	7,618	5,488	4,644	5,825	10,496	12,987	8,906	10,758	11,538
1976	16,619	11,796	23,790	18,292	9,905	7,258	11,787	4,430	3,644	3,595	4,303	2,713	9,844
1977	11,858	7,114	27,249	30,929	6,578	3,860	2,336	3,113	5,040	10,854	17,992	9,950	11,408
1978	19,356	10,353	11,835	5,868	13,143	5,842	2,785	4,236	2,751	2,201	2,725	5,305	7,206
1979	14,579	12,957	30,540	42,322	9,800	7,851	6,545	4,938	8,187	7,723	12,883	6,871	13,729
1980	14,380	13,167	37,939	27,834	16,573	5,883	3,699	2,430	2,958	4,892	4,982	4,556	11,608
1981	2,804	15,361	9,091	11,483	2,671	5,254	3,059	2,084	3,270	2,431	3,067	6,542	5,511
1982	20,905	26,573	13,646	18,663	8,273	5,223	4,321	3,764	2,464	4,007	6,879	25,473	11,597
1983	10,968	18,897	16,039	24,317	15,246	7,238	3,733	2,757	3,339	3,223	10,135	29,829	12,098
1984	17,990	11,386	13,532	15,829	16,833	4,543	6,619	11,650	3,174	4,250	4,433	6,831	9,773
1985	5,423	17,488	6,369	4,536	5,690	2,708	6,643	4,819	2,592	3,750	4,390	5,704	5,772
1986	3,539	5,178	5,142	2,774	1,636	1,841	1,717	1,702	1,910	1,949	8,367	9,567	3,766
1987	14,943	14,154	19,136	6,262	3,487	4,119	3,965	1,819	2,005	2,176	1,845	3,189	6,393
1988	9,726	6,957	4,434	4,700	2,997	1,767	1,440	1,931	5,468	2,968	6,465	4,565	4,429
1989	13,675	9,773	21,461	13,231	6,469	16,837	14,253	4,367	4,920	12,650	11,922	12,414	11,849
1990	22,592	39,046	35,663	8,831	7,234	3,607	3,501	2,767	2,410	3,735	3,746	7,682	11,588
1991	8,825	12,139	14,596	12,644	16,277	6,745	4,780	3,695	3,839	3,222	4,847	7,970	8,281
1992	11,574	13,702	14,739	7,664	3,635	5,573	4,132	5,639	6,352	4,241	17,511	19,294	9,473
1993	24,564	12,123	17,106	10,628	6,979	4,002	3,214	2,487	2,222	1,820	3,083	5,627	7,817
1994	8,823	13,554	17,006	20,067	5,466	4,706	8,068	5,370	5,558	8,909	5,785	13,091	9,676
1995	9,440	18,447	19,054	5,877	4,285	3,124	2,593	2,327	2,596	16,299	15,967	10,975	9,199
1996	18,959	24,404	26,265	11,353	6,098	5,176	3,424	3,724	4,457	3,997	6,669	10,778	10,366
1997	16,419	15,418	19,222	11,233	12,116	13,524	5,441	4,248	3,430	7,447	8,379	9,491	10,506
1998	18,647	26,062	21,457	19,965	8,301	5,173	3,449	3,531	2,505	2,255	3,295	6,091	9,955
1999	12,558	13,897	11,072	5,433	6,378	6,538	8,098	2,845	2,337	2,395	3,728	3,311	6,511
2000	4,838	4,408	8,445	19,664	3,651	2,076	1,913	2,061	1,953	2,099	3,997	3,601	4,874
2001	7,902	10,399	22,812	11,422	4,409	7,797	5,107	4,165	4,702	2,793	3,296	6,888	7,627
2002	12,200	8,417	8,031	8,683	7,624	2,719	2,565	2,194	4,434	5,115	11,989	20,464	7,875
2003	8,310	16,568	19,610	9,950	30,241	12,835	15,854	7,393	3,949	3,832	5,658	6,937	11,762
2004	8,338	14,748	6,598	4,654	5,140	5,012	4,591	3,162	9,984	5,389	18,369	17,732	8,584
2005	7,037	11,752	14,897	16,971	6,454	6,961	13,120	5,494	2,937	2,740	3,672	6,835	8,217
2006	10,759	12,383	9,870	6,765	5,595	2,564	2,127	2,446	1,683	2,950	6,869	4,514	5,669
2007	8,425	4,977	3,974	2,796	2,405	1,577	1,844	2,233	2,007	1,183	1,296	1,211	2,819
2008	2,803	7,703	9,234	5,762	5,592	2,346	1,822	4,389	2,464	2,131	2,231	9,789	4,680
2009	16,415	6,338	16,573	12,272	13,968	3,702	2,716	2,920	11,578	17,352	18,133	24,261	12,242
2010	15,767	19,964	18,646	8,347	8,726	4,732	2,760	2,691	2,027	1,980	2,521	4,173	7,630
2011	5,141	6,742	20,842	14,398	4,145	2,458	2,768	2,480	3,572	2,644	4,555	10,599	6,700
2012	11,837	7,577	11,658	3,594	2,681	1,877	2,321	2,909	2,677	2,947	2,315	7,196	4,970
2013	17,615	19,995	12,306	13,911	20,530	7,309	11,427	7,499	4,522	4,348	4,860	21,058	12,099
2014	14,371	15,097	12,680	18,709	6,880	6,264	3,524	2,454	2,615	3,994	5,148	9,975	8,425

Non-Exceedance Percentiles

03150105 - Upper Coosa River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211	2,819
5th %	3,502	5,168	5,107	3,554	2,658	1,837	1,817	1,926	1,951	1,943	2,212	3,165	4,396
10th %	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572	4,854
15th %	6,795	7,091	8,383	5,323	3,613	2,441	2,292	2,227	2,193	2,169	3,015	4,463	5,430
20th %	8,228	7,678	9,205	5,847	4,046	2,679	2,520	2,409	2,395	2,244	3,252	4,563	5,751
30th %	8,824	10,385	11,782	7,394	5,368	3,673	2,766	2,485	2,566	2,711	3,741	5,975	7,054
40th %	10,884	11,992	13,600	9,503	5,935	4,374	3,340	2,814	2,722	2,961	4,415	6,857	7,852
Median	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439	8,504
60th %	14,374	14,000	17,722	12,879	7,388	5,347	4,207	3,740	3,601	3,996	6,057	9,656	9,715
70th %	15,756	15,378	19,338	14,827	8,428	5,998	4,878	4,284	4,441	4,280	7,326	10,647	10,408
80th %	16,818	18,537	21,458	18,673	12,321	7,016	6,624	4,843	4,944	5,801	10,492	12,549	11,590
90th %	18,999	22,852	26,364	20,492	16,307	7,802	11,463	5,657	6,536	11,034	16,122	20,523	11,874
Maximum	24,564	39,046	37,939	42,322	30,241	16,837	15,854	11,650	11,578	17,352	18,369	29,829	13,729
Average	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845	8,602

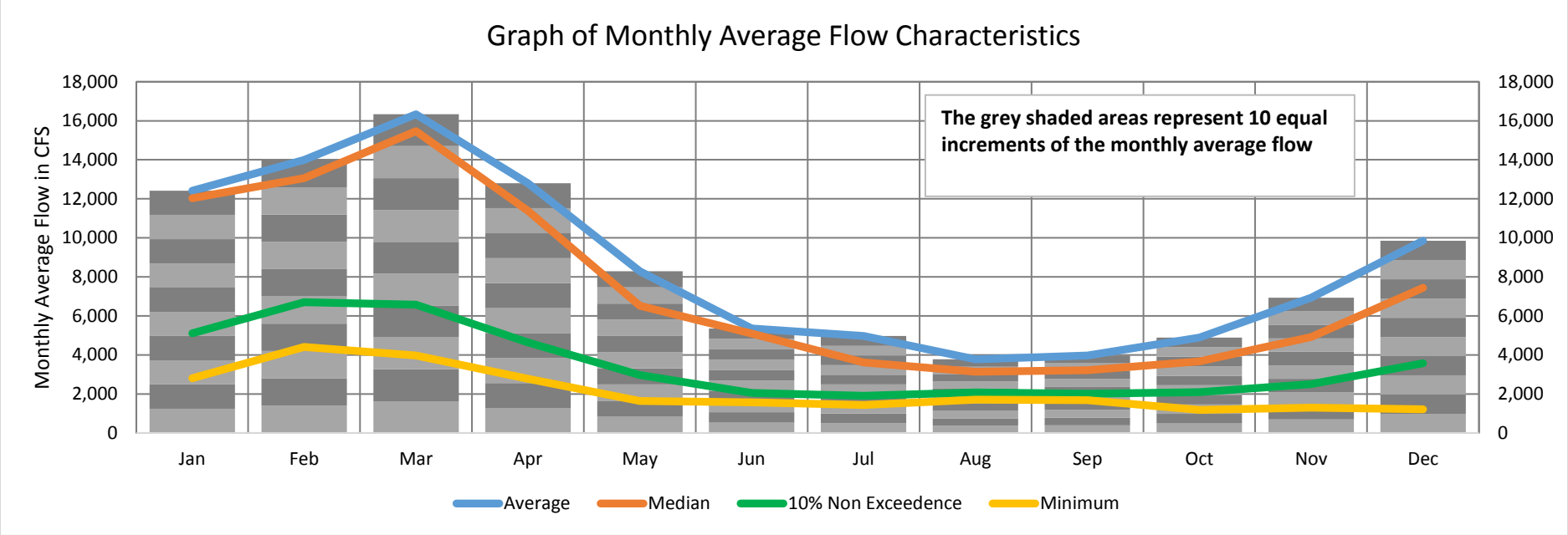
	Flows in CFS
Minimum	1,182.9
5th %	2,006
10th %	2,428
15th %	2,715
20th %	3,047
30th %	3,971
40th %	4,879
Median	6,301
60th %	7,872
70th %	10,888
80th %	13,680
90th %	18,376
Maximum	42,322
Average	8,631



Q10/Q50	0.39
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.21
Q5/DA	0.36
Q10/DA	0.43
Q15/DA	0.49
Q20/DA	0.55
Q30/DA	0.71
Q40/DA	0.87
Q50/DA	1.13
Q60/DA	1.41
Q70/DA	1.95
Q80/DA	2.45
Q90/DA	3.29
Qmax/DA	7.57

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

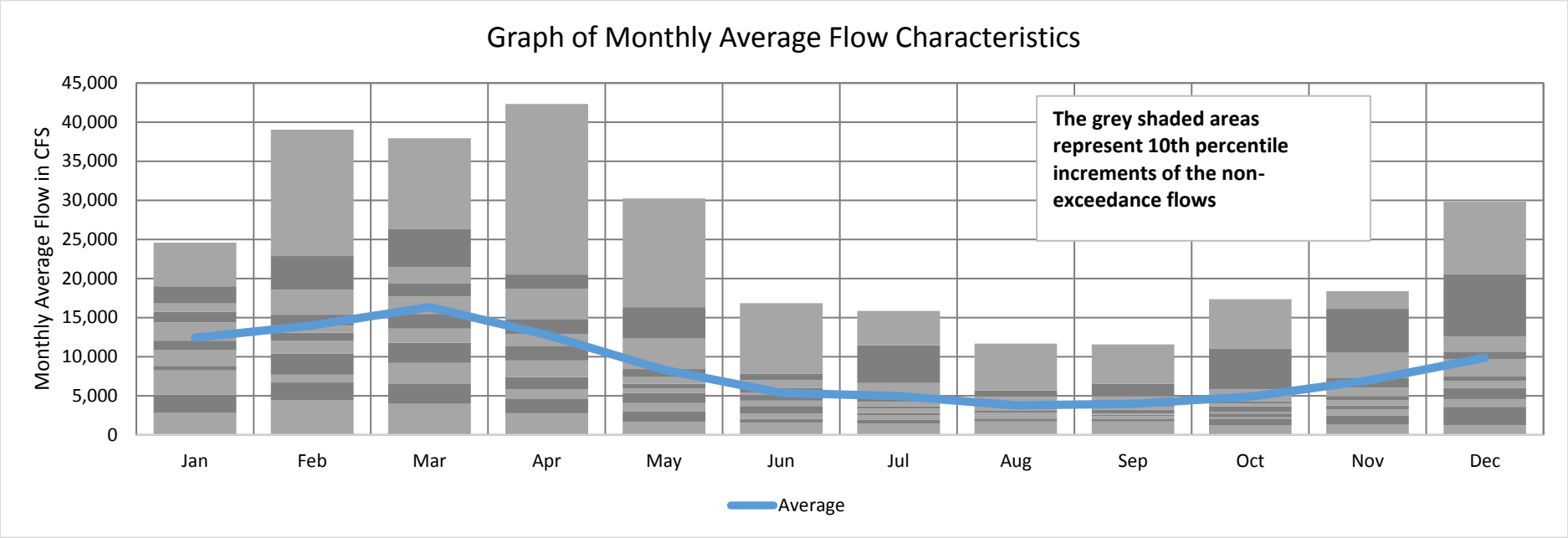
Site #: 03150105 Name: Upper Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845
100%	24,564	39,046	37,939	42,322	30,241	16,837	15,854	11,650	11,578	17,352	18,369	29,829
98%	23,026	29,317	36,164	33,435	22,666	14,253	14,605	8,412	10,734	16,531	18,185	26,431
95%	20,989	26,088	30,796	27,988	17,018	12,869	13,176	7,399	10,010	13,153	17,999	24,322
90%	18,999	22,852	26,364	20,492	16,307	7,802	11,463	5,657	6,536	11,034	16,122	20,523
75%	16,416	16,798	20,730	17,301	9,826	6,590	5,717	4,399	4,567	4,947	8,511	10,827
50%	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439
25%	8,403	9,434	10,771	6,165	4,378	3,023	2,685	2,452	2,464	2,422	3,578	5,546
10%	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572
5%	3,502	5,168	5,107	3,554	2,658	1,837	1,817	1,926	1,951	1,943	2,212	3,165
2%	2,804	4,851	4,333	2,791	2,236	1,725	1,656	1,793	1,860	1,680	1,725	2,383
0%	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211

Site #: 03150105 Name: Upper Coosa River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 5,588 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	12,417	13,992	16,331	12,802	8,293	5,353	4,968	3,775	3,976	4,887	6,930	9,845
100%	24,564	39,046	37,939	42,322	30,241	16,837	15,854	11,650	11,578	17,352	18,369	29,829
98%	23,026	29,317	36,164	33,435	22,666	14,253	14,605	8,412	10,734	16,531	18,185	26,431
95%	20,989	26,088	30,796	27,988	17,018	12,869	13,176	7,399	10,010	13,153	17,999	24,322
90%	18,999	22,852	26,364	20,492	16,307	7,802	11,463	5,657	6,536	11,034	16,122	20,523
75%	16,416	16,798	20,730	17,301	9,826	6,590	5,717	4,399	4,567	4,947	8,511	10,827
50%	12,029	13,062	15,468	11,387	6,523	5,092	3,611	3,137	3,222	3,665	4,921	7,439
25%	8,403	9,434	10,771	6,165	4,378	3,023	2,685	2,452	2,464	2,422	3,578	5,546
10%	5,111	6,702	6,575	4,642	2,965	2,057	1,906	2,082	2,006	2,087	2,500	3,572
5%	3,502	5,168	5,107	3,554	2,658	1,837	1,817	1,926	1,951	1,943	2,212	3,165
2%	2,804	4,851	4,333	2,791	2,236	1,725	1,656	1,793	1,860	1,680	1,725	2,383
0%	2,803	4,408	3,974	2,774	1,636	1,577	1,440	1,702	1,683	1,183	1,296	1,211

Monthly Flows (in CFS) for
03150204 - Alabama River Subbasin

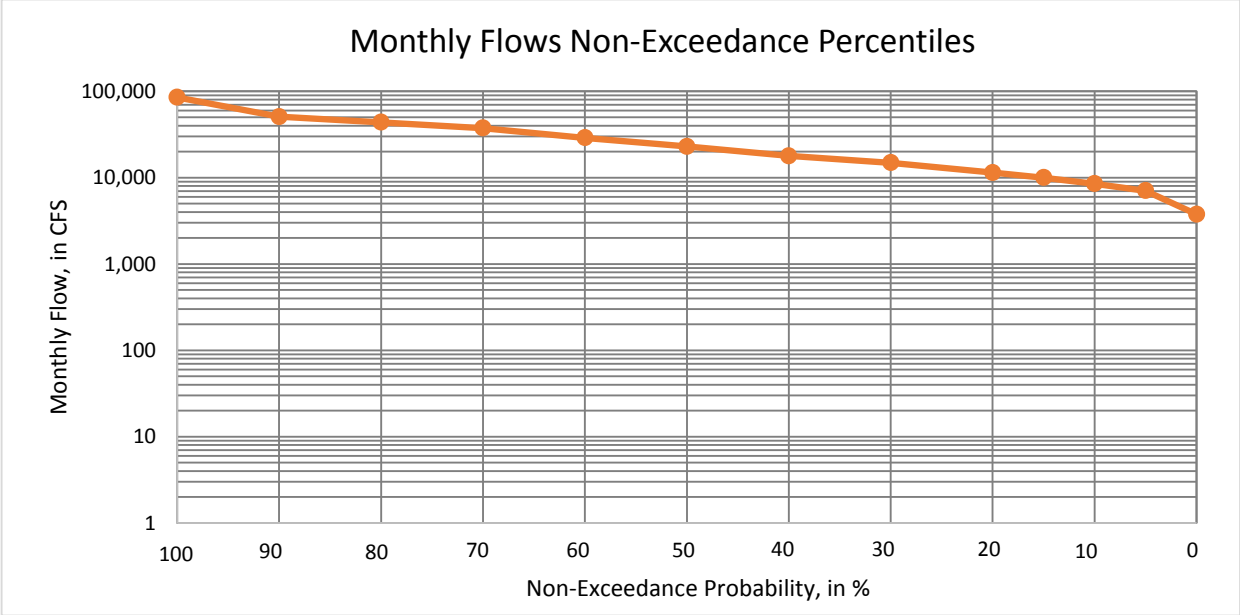
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	53,340	71,213	62,379	59,258	31,845	26,587	31,211	39,476	32,234	65,093	59,744	55,723	48,876
1976	63,678	38,874	45,569	49,324	37,700	24,405	47,128	23,537	26,073	38,987	37,847	58,370	41,047
1977	50,343	40,196	41,893	47,256	17,479	17,394	8,040	13,287	23,266	32,723	37,312	41,357	30,798
1978	65,617	35,601	27,777	21,646	33,527	20,925	25,572	36,419	38,219	41,392	29,898	34,017	34,278
1979	29,027	44,825	54,258	54,722	30,660	23,054	14,297	12,959	12,122	57,241	38,375	36,814	33,962
1980	43,134	43,704	66,683	66,753	46,683	21,594	13,858	10,057	8,485	14,878	15,849	15,288	30,499
1981	11,376	47,355	27,760	38,762	11,875	17,802	10,167	8,381	10,495	7,817	9,232	21,896	18,335
1982	48,359	66,222	43,353	41,252	34,025	18,236	17,061	15,681	8,363	13,398	19,250	53,699	31,397
1983	40,848	51,804	51,333	63,286	38,251	24,629	17,953	11,591	15,579	11,951	32,920	60,438	34,921
1984	57,250	41,229	48,629	43,631	42,475	17,461	18,272	44,062	14,173	13,519	17,839	30,251	32,427
1985	20,195	47,140	28,805	16,088	17,983	10,142	19,997	20,287	11,039	14,250	16,530	23,573	20,361
1986	15,828	27,179	38,504	10,887	9,706	8,965	7,802	7,761	6,558	6,474	27,533	35,962	16,883
1987	42,147	50,293	50,667	28,583	16,609	17,660	15,656	9,557	8,576	7,985	7,918	13,175	22,247
1988	34,986	31,471	18,742	17,008	9,983	8,359	9,084	7,059	23,798	14,071	27,345	18,557	18,256
1989	37,934	24,973	51,283	47,536	20,494	50,137	47,007	17,020	17,473	34,955	33,237	48,310	35,939
1990	56,988	67,957	84,829	37,703	26,563	13,543	13,353	10,789	8,662	11,142	12,972	19,344	30,144
1991	25,214	38,914	37,605	33,020	45,204	26,194	23,677	15,131	14,836	11,557	21,465	25,789	26,478
1992	47,795	50,663	48,070	26,305	12,939	21,219	14,202	19,311	20,888	14,367	54,263	62,601	32,594
1993	60,624	46,325	52,156	39,944	22,382	13,547	12,604	12,270	9,875	8,498	17,947	22,198	26,436
1994	28,748	41,850	48,341	49,600	18,531	15,666	41,609	21,773	18,891	26,667	19,720	41,949	31,080
1995	32,274	51,716	52,240	20,919	14,407	11,242	10,299	9,937	7,425	46,978	47,876	43,892	28,994
1996	45,622	62,422	64,125	37,192	22,863	18,505	14,315	15,894	17,991	15,376	20,046	34,312	30,541
1997	49,249	51,041	61,055	32,764	35,525	37,739	21,137	16,336	11,118	21,143	30,977	43,229	34,205
1998	58,303	71,309	70,642	48,870	25,558	17,030	11,256	12,213	13,914	17,390	12,371	17,585	31,133
1999	28,788	42,567	32,737	17,420	17,208	21,774	32,526	10,289	7,729	9,854	9,476	13,126	20,176
2000	19,468	15,285	28,415	33,796	10,342	7,570	6,998	7,065	7,019	6,461	12,076	16,101	14,198
2001	25,222	29,630	76,572	44,994	15,399	26,605	16,713	14,864	16,838	8,861	10,645	20,051	25,507
2002	31,394	28,010	28,277	22,694	17,555	9,078	8,720	8,227	13,307	17,083	37,613	51,020	22,728
2003	30,041	42,970	49,459	42,276	68,557	47,329	54,734	31,861	15,655	11,827	20,483	23,713	36,579
2004	25,765	43,528	18,712	13,044	16,031	13,863	13,732	9,883	35,451	17,214	43,579	48,041	24,733
2005	25,484	42,499	47,846	58,701	25,632	28,398	49,541	26,912	12,938	9,143	10,178	22,732	29,924
2006	30,146	41,113	41,799	18,872	21,058	7,175	6,207	6,084	5,276	6,726	23,164	17,720	18,651
2007	36,745	20,611	16,844	10,560	5,867	5,289	4,317	4,159	3,763	6,657	4,965	3,929	10,270
2008	9,990	39,011	29,957	23,648	15,147	7,805	4,168	16,414	7,980	6,345	7,635	29,711	16,351
2009	36,557	14,751	49,178	44,318	45,348	19,003	8,633	11,173	26,874	45,564	55,089	53,321	34,286
2010	49,257	51,310	48,918	23,798	29,917	17,376	8,621	7,841	5,968	6,386	10,284	14,279	22,688
2011	14,857	24,506	41,806	35,634	13,213	7,332	9,005	6,269	8,451	6,745	12,946	27,354	17,298
2012	33,868	34,900	34,157	14,989	10,436	9,117	6,467	10,551	15,720	9,008	8,866	24,455	17,631
2013	35,828	62,582	40,588	39,852	45,454	22,831	37,963	28,431	14,744	11,549	14,014	48,497	33,406
2014	39,028	44,184	40,380	46,883	35,953	23,331	13,410	7,542	7,568	11,407	15,178	20,192	25,291

Non-Exceedance Percentiles

03150204 - Alabama River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929	10,270
5th %	14,683	20,345	18,741	12,936	9,969	7,324	6,112	6,260	5,933	6,457	7,904	13,173	16,243
10th %	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187	17,257
15th %	24,461	27,885	28,395	17,359	12,780	8,874	8,004	7,728	7,546	6,742	10,073	17,362	18,162
20th %	25,432	31,103	29,727	20,509	14,169	9,109	8,631	8,150	7,930	7,952	10,573	18,390	18,588
30th %	28,955	38,902	38,234	23,753	16,436	13,546	9,842	9,921	8,549	9,102	12,965	21,385	22,556
40th %	31,922	41,183	41,803	32,917	17,812	17,238	13,053	10,694	10,821	11,493	16,257	23,657	25,421
Median	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532	29,459
60th %	39,756	44,440	48,745	40,467	26,004	19,771	16,079	14,971	14,781	14,297	22,145	34,972	30,644
70th %	46,274	48,236	50,852	44,521	32,350	22,091	18,790	16,359	16,056	17,122	30,222	42,333	31,706
80th %	49,474	51,392	52,644	47,803	36,302	24,450	26,700	20,585	19,290	27,879	37,372	48,347	34,011
90th %	57,355	62,946	64,380	55,120	45,218	26,784	42,148	28,774	26,153	41,809	44,008	53,901	35,023
Maximum	65,617	71,309	84,829	66,753	68,557	50,137	54,734	44,062	38,219	65,093	59,744	62,601	48,876
Average	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314	27,289

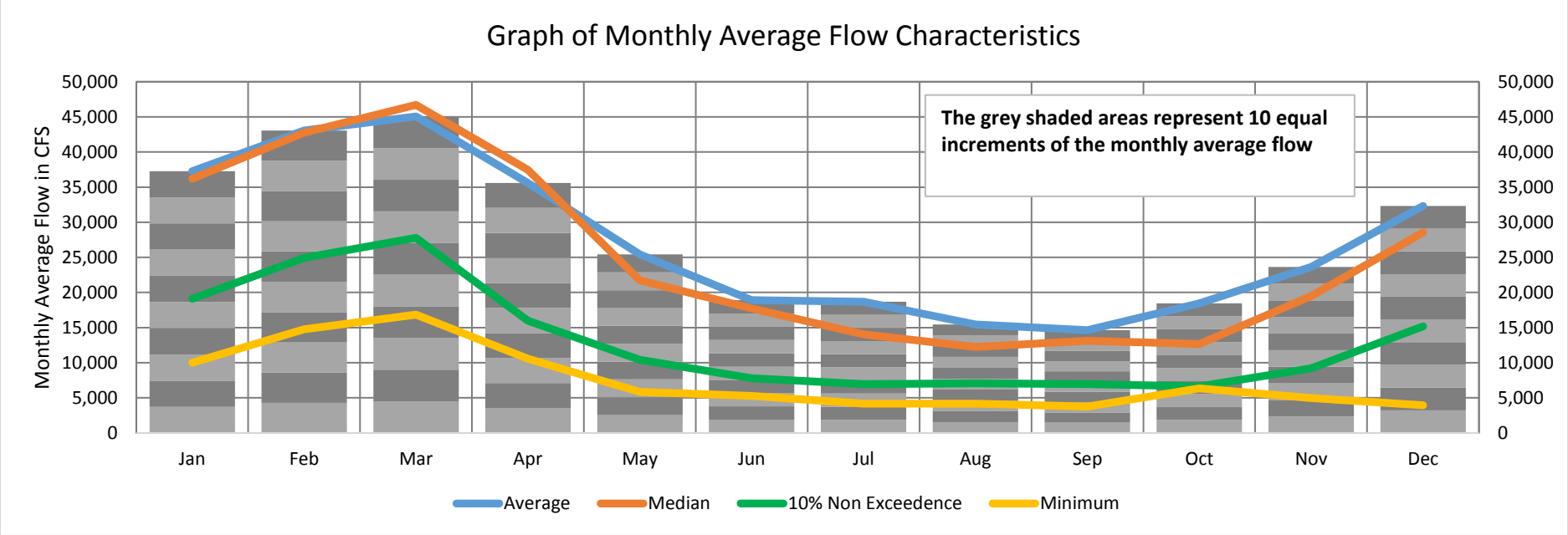
	Flows in CFS
Minimum	3,763.4
5th %	7,057
10th %	8,482
15th %	9,976
20th %	11,401
30th %	14,862
40th %	17,824
Median	22,959
60th %	28,894
70th %	37,400
80th %	43,646
90th %	50,703
Maximum	84,829
Average	27,372



Q10/Q50	0.37
Q10/Q90	0.17
	CFSM*
Qmin/DA	0.17
Q5/DA	0.31
Q10/DA	0.37
Q15/DA	0.44
Q20/DA	0.50
Q30/DA	0.65
Q40/DA	0.78
Q50/DA	1.01
Q60/DA	1.27
Q70/DA	1.64
Q80/DA	1.92
Q90/DA	2.23
Qmax/DA	3.73

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

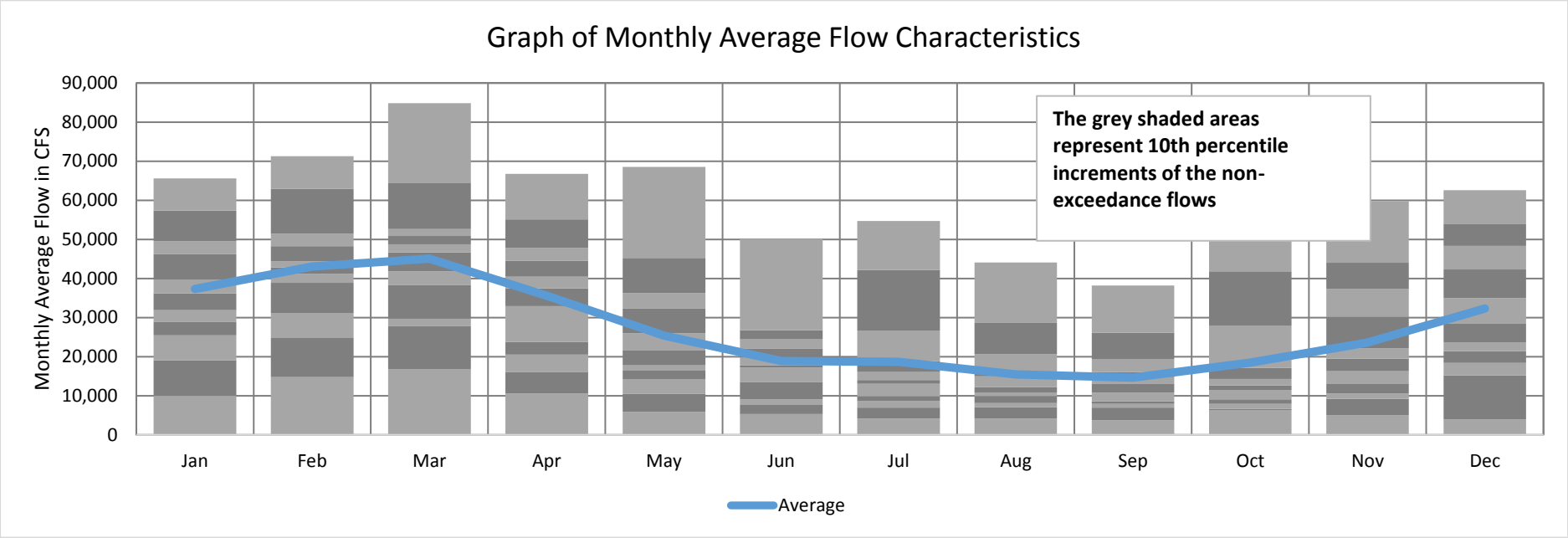
Site #: 03150204 Name: Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314
100%	65,617	71,309	84,829	66,753	68,557	50,137	54,734	44,062	38,219	65,093	59,744	62,601
98%	64,105	71,234	78,388	64,049	51,495	47,946	50,683	40,485	36,060	58,968	56,113	60,914
95%	60,776	68,119	70,938	59,459	45,516	38,219	47,249	36,572	32,395	47,491	54,304	58,473
90%	57,355	62,946	64,380	55,120	45,218	26,784	42,148	28,774	26,153	41,809	44,008	53,901
75%	48,582	50,757	51,539	46,976	34,400	23,123	21,772	17,592	17,602	18,328	32,999	44,929
50%	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532
25%	28,002	35,426	33,802	22,432	15,336	10,967	8,934	9,263	8,429	8,770	12,297	19,874
10%	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187
5%	14,683	20,345	18,741	12,936	9,969	7,324	6,112	6,260	5,933	6,457	7,904	13,173
2%	11,071	15,167	18,301	10,815	8,861	6,760	4,285	5,661	4,943	6,377	7,048	11,103
0%	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929

Site #: 03150204 Name: Alabama River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 22,750 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	37,283	43,043	45,059	35,595	25,410	18,898	18,683	15,459	14,633	18,467	23,616	32,314
100%	65,617	71,309	84,829	66,753	68,557	50,137	54,734	44,062	38,219	65,093	59,744	62,601
98%	64,105	71,234	78,388	64,049	51,495	47,946	50,683	40,485	36,060	58,968	56,113	60,914
95%	60,776	68,119	70,938	59,459	45,516	38,219	47,249	36,572	32,395	47,491	54,304	58,473
90%	57,355	62,946	64,380	55,120	45,218	26,784	42,148	28,774	26,153	41,809	44,008	53,901
75%	48,582	50,757	51,539	46,976	34,400	23,123	21,772	17,592	17,602	18,328	32,999	44,929
50%	36,193	42,769	46,707	37,448	21,720	17,731	14,030	12,242	13,122	12,674	19,485	28,532
25%	28,002	35,426	33,802	22,432	15,336	10,967	8,934	9,263	8,429	8,770	12,297	19,874
10%	19,104	24,926	27,775	15,978	10,426	7,782	6,945	7,064	6,973	6,639	9,196	15,187
5%	14,683	20,345	18,741	12,936	9,969	7,324	6,112	6,260	5,933	6,457	7,904	13,173
2%	11,071	15,167	18,301	10,815	8,861	6,760	4,285	5,661	4,943	6,377	7,048	11,103
0%	9,990	14,751	16,844	10,560	5,867	5,289	4,168	4,159	3,763	6,345	4,965	3,929

Monthly Flows (in CFS) for
03160106 - Upper Tombigbee River Subbasin

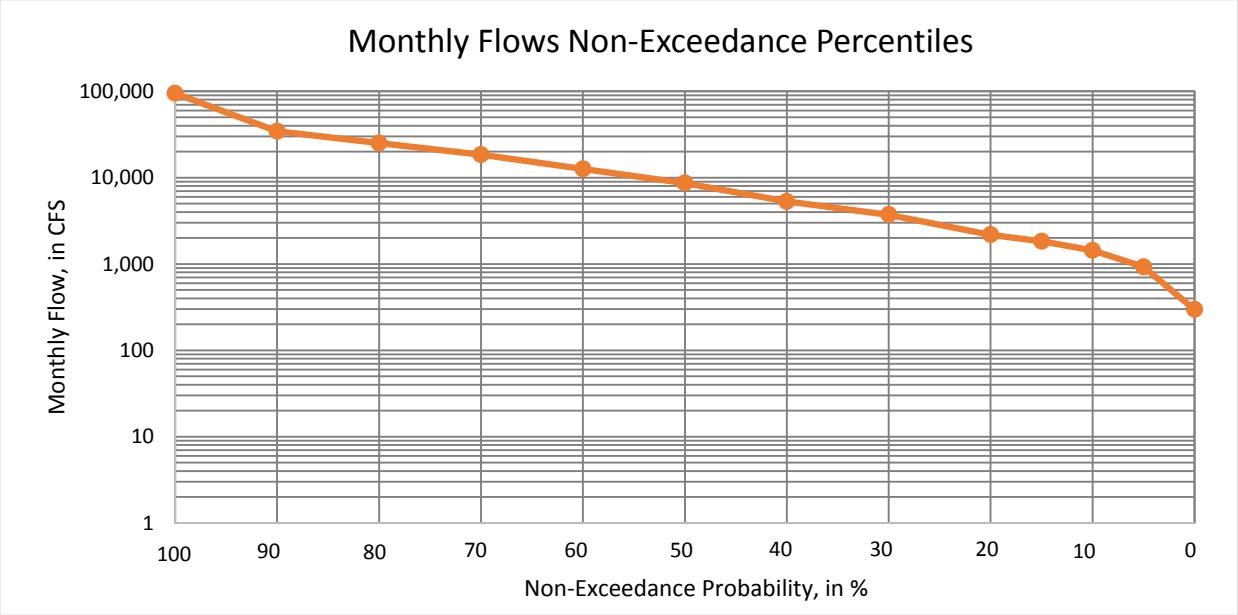
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	49,503	37,722	49,369	34,187	14,725	9,073	5,334	10,994	4,120	18,777	8,084	13,108	21,195
1976	24,396	24,626	45,517	38,117	18,136	6,119	2,915	2,076	3,801	1,975	2,833	10,802	15,057
1977	24,023	9,918	55,168	40,896	4,212	1,988	2,002	1,692	4,437	12,581	19,155	24,760	16,793
1978	21,550	11,457	23,329	5,660	31,703	9,764	1,922	944	454	465	999	4,759	9,457
1979	40,994	23,630	36,101	56,361	13,564	8,528	11,423	2,864	20,615	4,345	20,131	20,447	21,514
1980	26,985	20,498	59,751	68,319	22,373	4,962	1,847	1,115	1,144	3,464	7,449	5,627	18,592
1981	2,879	12,553	12,901	18,448	3,918	4,312	1,252	783	1,120	1,049	931	3,449	5,230
1982	30,740	21,773	15,980	35,502	7,092	3,575	3,531	4,384	1,264	2,033	4,200	55,537	15,463
1983	38,270	57,745	51,788	75,328	50,426	14,749	5,198	1,163	1,665	1,457	10,917	55,499	30,177
1984	28,443	17,602	23,175	29,594	35,926	2,269	1,736	1,823	432	7,741	8,457	11,139	14,041
1985	8,492	40,168	9,238	10,247	17,219	4,184	2,894	4,431	2,019	6,325	5,846	7,983	9,719
1986	3,750	8,916	13,438	2,817	4,235	8,998	1,230	1,044	949	2,526	19,604	20,865	7,344
1987	22,184	26,043	34,293	5,899	3,582	3,782	1,914	773	927	594	1,765	3,982	8,732
1988	9,178	12,145	7,590	13,014	2,090	709	1,532	758	2,851	5,387	9,215	8,532	6,030
1989	45,353	30,228	39,985	18,374	14,261	26,582	22,351	3,166	2,952	8,327	12,526	9,571	19,432
1990	47,296	67,365	32,264	9,255	11,711	7,130	2,025	843	697	886	1,642	34,610	17,717
1991	18,427	47,221	34,502	59,164	94,529	31,611	3,462	2,555	2,213	1,562	3,568	30,264	27,296
1992	9,400	16,007	15,214	8,515	1,856	4,787	2,934	5,456	4,919	1,542	17,800	18,128	8,820
1993	28,152	19,914	16,158	21,756	16,367	3,186	2,091	3,891	1,929	1,654	5,182	8,814	10,713
1994	15,593	33,024	33,803	25,544	4,357	11,217	18,848	3,230	2,918	6,363	7,210	19,976	15,065
1995	20,233	22,966	45,530	30,082	8,467	3,630	2,657	4,003	915	3,115	8,841	20,316	14,195
1996	28,853	23,073	25,571	25,549	4,295	4,091	4,363	4,018	4,072	2,716	8,697	26,007	13,394
1997	33,371	28,722	30,176	11,636	24,908	38,663	9,286	3,871	1,963	4,168	5,554	15,343	17,242
1998	45,732	29,260	30,407	15,199	6,996	2,988	6,364	5,615	1,131	1,339	2,420	16,174	13,597
1999	39,827	31,801	27,497	15,567	9,632	7,233	6,811	660	632	991	1,479	2,396	11,945
2000	5,496	5,105	10,636	41,784	2,092	1,491	634	442	296	444	4,193	7,469	6,629
2001	22,093	30,321	34,543	21,679	3,543	12,822	2,104	2,293	6,374	11,645	4,819	37,443	15,735
2002	31,194	20,202	24,378	17,698	19,871	1,789	3,005	1,289	7,464	14,201	20,352	25,693	15,598
2003	11,616	48,644	32,390	28,288	38,299	17,634	9,506	12,102	5,156	4,180	12,051	14,317	19,317
2004	17,745	49,797	27,142	8,821	6,087	16,588	13,923	3,376	4,254	7,468	23,693	46,518	18,589
2005	15,963	21,770	15,281	26,900	4,831	18,830	12,953	5,540	13,246	2,284	3,263	12,339	12,662
2006	27,816	38,805	21,302	4,120	9,579	1,445	865	746	1,448	7,187	11,545	6,706	10,804
2007	26,517	10,924	6,812	3,374	1,283	713	1,816	595	1,134	1,829	1,586	2,449	4,905
2008	4,447	19,233	15,212	13,370	12,490	3,185	783	3,104	2,540	2,348	1,913	34,319	9,377
2009	32,304	7,834	50,641	12,540	27,739	4,386	1,465	2,808	21,454	34,744	14,898	28,647	20,127
2010	26,439	25,136	20,702	10,952	21,867	5,013	1,989	1,631	1,088	787	2,180	4,837	10,155
2011	13,161	8,972	29,473	37,327	11,129	1,983	1,533	1,520	5,712	977	2,163	14,081	10,671
2012	18,708	18,849	25,006	7,671	3,833	1,277	2,338	2,131	4,990	5,683	2,145	16,357	9,058
2013	40,530	29,695	25,047	26,158	17,908	5,143	6,682	3,474	2,190	1,637	3,904	14,244	14,653
2014	11,234	24,865	16,327	42,803	10,949	12,388	4,545	1,473	1,275	5,349	5,769	18,405	12,822

Non-Exceedance Percentiles

03160106 - Upper Tombigbee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396	4,905
5th %	4,412	8,862	9,156	4,082	2,078	1,249	861	657	453	587	1,455	3,399	5,990
10th %	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681	7,272
15th %	9,367	11,377	14,946	8,389	3,795	1,954	1,522	781	925	989	1,891	5,508	8,807
20th %	11,539	12,472	15,268	9,168	4,153	2,213	1,696	923	1,060	1,281	2,160	7,316	9,313
30th %	17,210	19,118	19,390	12,269	4,688	3,458	1,920	1,251	1,141	1,614	3,134	9,344	10,516
40th %	21,023	21,261	23,958	15,420	7,917	4,147	2,065	1,667	1,578	2,010	4,197	12,801	12,375
Median	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830	13,819
60th %	27,317	25,499	30,268	25,793	13,843	6,523	3,187	2,960	2,878	4,173	7,703	18,239	15,060
70th %	29,419	29,855	33,950	29,740	17,426	9,021	4,741	3,405	4,086	5,476	8,954	20,573	16,053
80th %	34,351	33,963	36,878	37,485	21,968	12,475	6,708	4,006	4,934	7,243	12,146	26,535	18,590
90th %	41,430	47,363	49,496	44,159	32,125	17,753	11,576	5,464	6,483	11,738	19,200	34,894	20,234
Maximum	49,503	67,365	59,751	75,328	94,529	38,663	22,351	12,102	21,454	34,744	23,693	55,537	30,177
Average	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298	13,997

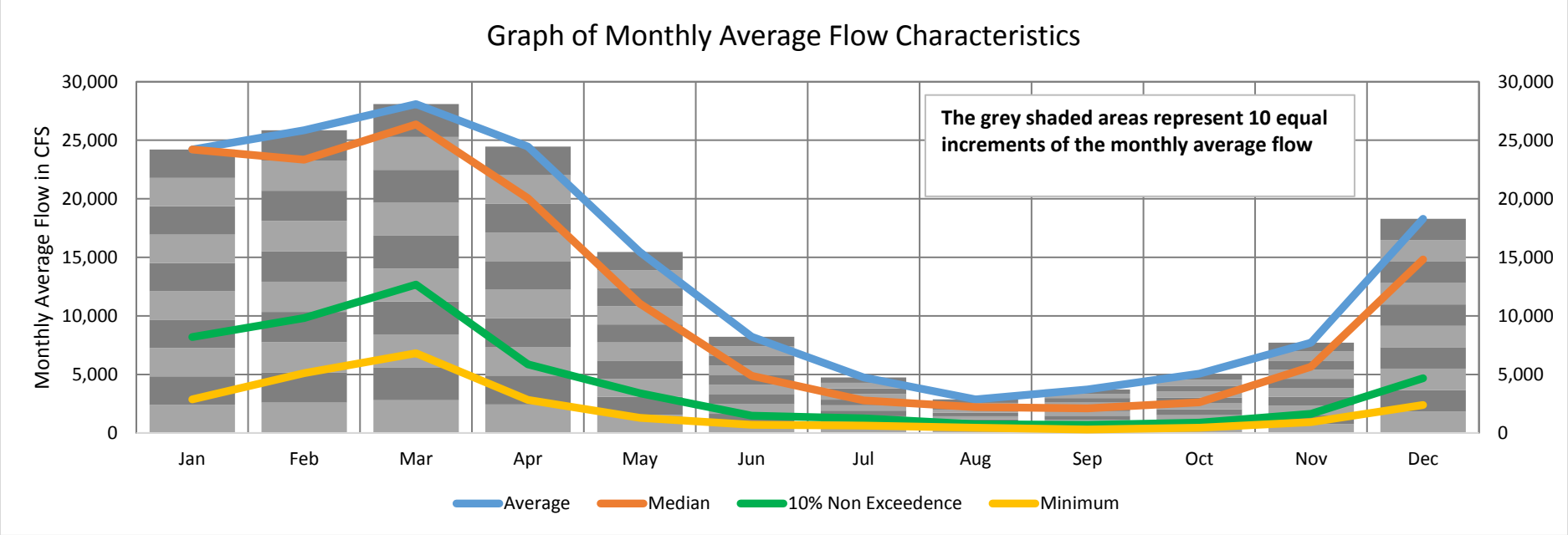
	Flows in CFS
Minimum	296.0
5th %	926
10th %	1,434
15th %	1,828
20th %	2,176
30th %	3,714
40th %	5,279
Median	8,615
60th %	12,564
70th %	18,434
80th %	25,014
90th %	34,337
Maximum	94,529
Average	14,060



Q10/Q50	0.17
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.03
Q5/DA	0.10
Q10/DA	0.16
Q15/DA	0.20
Q20/DA	0.24
Q30/DA	0.41
Q40/DA	0.58
Q50/DA	0.95
Q60/DA	1.38
Q70/DA	2.03
Q80/DA	2.76
Q90/DA	3.78
Qmax/DA	10.41

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

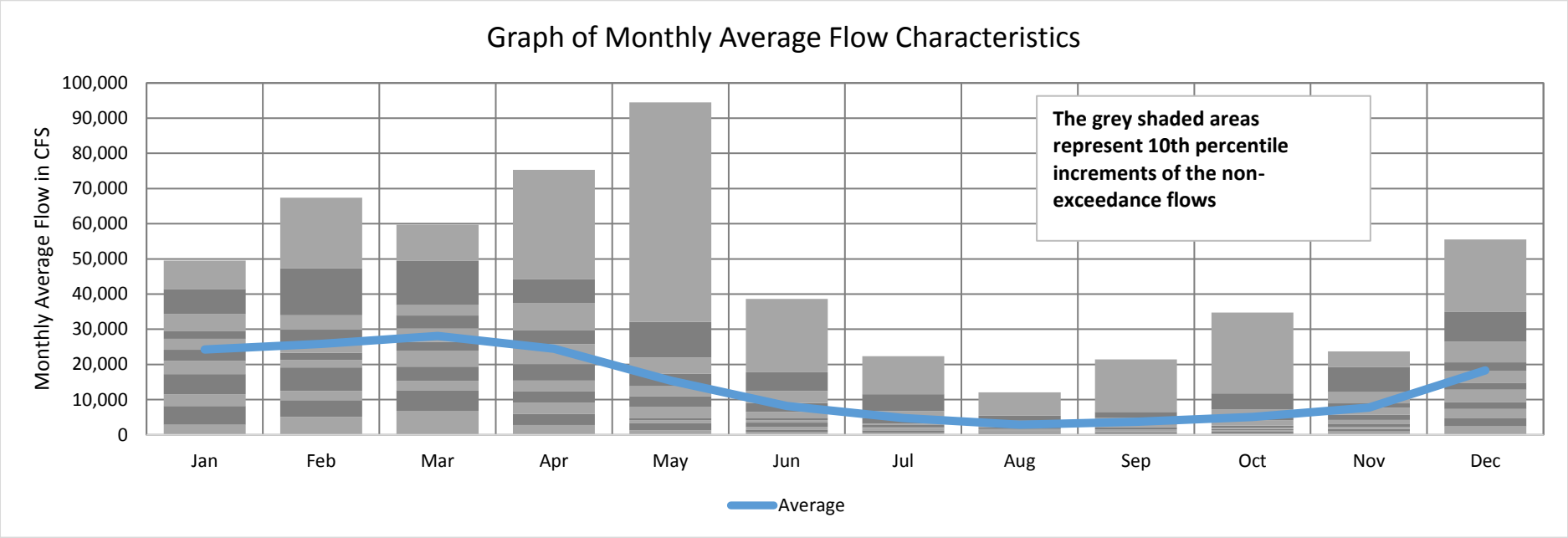
Site #: 03160106 Name: Upper Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298
100%	49,503	67,365	59,751	75,328	94,529	38,663	22,351	12,102	21,454	34,744	23,693	55,537
98%	47,781	59,861	56,176	69,861	60,129	33,163	19,619	11,238	20,799	22,290	21,087	55,508
95%	45,810	50,194	51,957	59,621	38,905	26,833	14,169	5,884	13,615	14,429	20,142	46,967
90%	41,430	47,363	49,496	44,159	32,125	17,753	11,576	5,464	6,483	11,738	19,200	34,894
75%	31,471	30,691	34,512	34,516	18,570	10,127	5,591	3,876	4,300	6,334	11,074	24,994
50%	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830
25%	14,985	17,203	16,114	10,776	4,280	3,136	1,839	1,097	1,128	1,521	2,360	8,395
10%	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681
5%	4,412	8,862	9,156	4,082	2,078	1,249	861	657	453	587	1,455	3,399
2%	3,559	7,233	7,419	3,252	1,730	712	750	562	402	460	984	2,437
0%	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396

Site #: 03160106 Name: Upper Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 9,078 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	24,222	25,863	28,091	24,463	15,452	8,220	4,752	2,867	3,719	5,054	7,724	18,298
100%	49,503	67,365	59,751	75,328	94,529	38,663	22,351	12,102	21,454	34,744	23,693	55,537
98%	47,781	59,861	56,176	69,861	60,129	33,163	19,619	11,238	20,799	22,290	21,087	55,508
95%	45,810	50,194	51,957	59,621	38,905	26,833	14,169	5,884	13,615	14,429	20,142	46,967
90%	41,430	47,363	49,496	44,159	32,125	17,753	11,576	5,464	6,483	11,738	19,200	34,894
75%	31,471	30,691	34,512	34,516	18,570	10,127	5,591	3,876	4,300	6,334	11,074	24,994
50%	24,210	23,351	26,356	20,064	11,039	4,874	2,776	2,212	2,105	2,621	5,661	14,830
25%	14,985	17,203	16,114	10,776	4,280	3,136	1,839	1,097	1,128	1,521	2,360	8,395
10%	8,192	9,823	12,674	5,875	3,398	1,486	1,250	757	690	876	1,636	4,681
5%	4,412	8,862	9,156	4,082	2,078	1,249	861	657	453	587	1,455	3,399
2%	3,559	7,233	7,419	3,252	1,730	712	750	562	402	460	984	2,437
0%	2,879	5,105	6,812	2,817	1,283	709	634	442	296	444	931	2,396

Monthly Flows (in CFS) for
03160108 - Noxubee River Subbasin

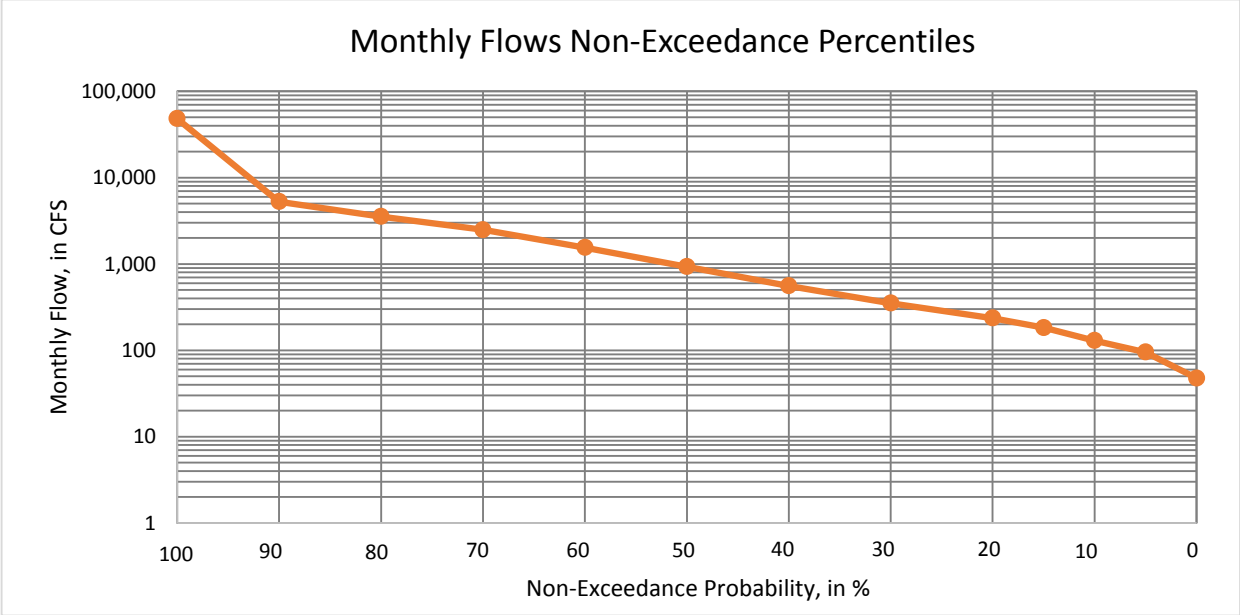
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	6,538	6,118	7,167	3,104	1,686	987	707	1,383	250	3,147	349	1,777	2,758
1976	3,063	2,470	12,055	4,625	1,698	495	421	177	396	117	161	1,477	2,271
1977	4,316	1,468	8,720	9,404	310	132	378	203	1,584	2,015	3,031	3,290	2,909
1978	3,561	1,354	2,704	403	5,188	892	204	121	87	81	82	263	1,254
1979	8,097	4,532	7,769	48,051	1,042	274	1,141	470	3,795	278	2,038	2,425	6,601
1980	3,934	2,807	9,268	9,716	2,934	559	286	192	250	507	927	604	2,662
1981	597	1,027	1,551	2,390	187	347	153	170	219	376	253	449	638
1982	2,164	2,356	1,802	3,744	489	681	276	515	235	468	478	6,680	1,656
1983	4,154	9,625	7,785	9,536	7,769	1,915	558	175	259	509	1,369	5,258	4,039
1984	3,482	2,622	2,690	2,801	3,404	191	215	497	197	642	1,138	1,225	1,589
1985	789	5,364	928	954	1,185	174	296	346	208	577	511	962	995
1986	645	585	1,499	272	457	569	95	106	106	466	1,863	2,291	748
1987	3,115	3,529	4,804	596	416	633	196	121	305	258	231	349	1,202
1988	657	1,070	697	1,403	117	78	400	282	327	555	2,020	1,017	713
1989	4,951	3,189	4,435	2,575	2,802	2,441	3,277	474	503	1,035	2,529	1,737	2,495
1990	7,569	8,966	3,997	983	530	595	224	240	425	76	108	2,356	2,135
1991	1,584	8,923	4,855	8,923	13,318	2,352	330	386	478	146	312	913	3,505
1992	1,546	3,055	1,000	1,618	182	821	183	1,092	318	83	2,832	2,790	1,278
1993	7,076	4,680	3,061	3,119	2,616	346	164	675	101	87	631	812	1,935
1994	3,611	6,366	4,638	4,185	270	667	1,674	278	355	819	589	3,090	2,186
1995	2,865	3,101	6,807	4,049	797	442	176	274	101	669	1,441	3,239	1,993
1996	5,546	3,718	4,837	2,700	282	294	359	333	191	130	312	1,463	1,672
1997	4,787	6,351	2,972	2,831	1,438	3,660	996	607	156	269	1,000	3,549	2,357
1998	9,750	4,798	3,659	2,493	389	192	457	292	84	81	111	1,054	1,937
1999	5,727	5,337	3,972	831	286	320	312	95	82	107	78	169	1,423
2000	437	254	607	5,684	143	129	87	61	48	50	382	780	716
2001	3,120	3,086	6,845	2,054	200	1,167	154	289	1,571	2,373	1,093	4,346	2,192
2002	4,110	3,769	3,452	1,636	263	141	213	220	1,997	3,339	3,241	4,887	2,266
2003	1,850	9,766	5,420	6,762	1,916	2,401	2,128	666	274	449	1,300	1,443	2,810
2004	2,591	10,418	2,784	979	711	1,352	2,208	428	382	569	4,146	5,262	2,599
2005	1,692	4,823	2,944	5,092	855	4,644	3,486	1,011	1,995	218	130	686	2,270
2006	2,974	6,274	5,537	568	1,412	124	126	113	98	1,459	1,109	1,009	1,710
2007	3,573	1,625	524	192	101	83	284	94	88	84	78	151	569
2008	291	3,619	2,126	1,646	1,564	368	85	911	316	437	93	5,830	1,432
2009	5,445	773	7,688	2,783	3,539	698	232	390	4,877	6,345	2,091	5,303	3,376
2010	5,043	4,921	5,497	1,245	2,056	451	236	153	96	75	203	439	1,688
2011	1,135	1,688	5,885	4,499	632	133	273	144	932	100	93	1,442	1,411
2012	2,318	2,945	5,154	643	452	174	1,036	516	1,014	541	138	3,326	1,521
2013	7,973	7,778	5,002	4,669	2,084	625	708	429	343	119	751	2,307	2,703
2014	1,480	4,790	3,996	10,314	1,939	1,413	255	126	104	193	351	2,482	2,258

Non-Exceedance Percentiles

03160108 - Noxubee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	291	254	524	192	101	78	85	61	48	50	78	151	569
5th %	589	763	693	396	142	122	95	95	84	76	81	258	709
10th %	656	1,066	993	593	187	131	150	113	88	81	93	430	745
15th %	1,083	1,451	1,543	803	253	140	163	121	98	84	111	581	1,171
20th %	1,533	1,676	2,061	974	280	174	181	140	101	97	136	761	1,273
30th %	2,070	2,751	2,896	1,553	408	288	215	177	180	126	246	995	1,494
40th %	2,930	3,095	3,576	2,255	514	359	248	232	229	242	350	1,356	1,682
Median	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607	1,965
60th %	3,740	4,724	4,844	3,110	1,422	628	342	362	321	483	956	2,326	2,218
70th %	4,457	5,045	5,443	4,279	1,764	735	432	441	386	559	1,187	2,880	2,297
80th %	5,465	6,289	6,814	5,210	2,190	1,204	766	515	589	699	1,894	3,370	2,670
90th %	7,125	8,927	7,771	9,417	3,417	2,357	1,720	699	1,625	2,051	2,559	5,258	2,956
Maximum	9,750	10,418	12,055	48,051	13,318	4,644	3,486	1,383	4,877	6,345	4,146	6,680	6,601
Average	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223	2,062

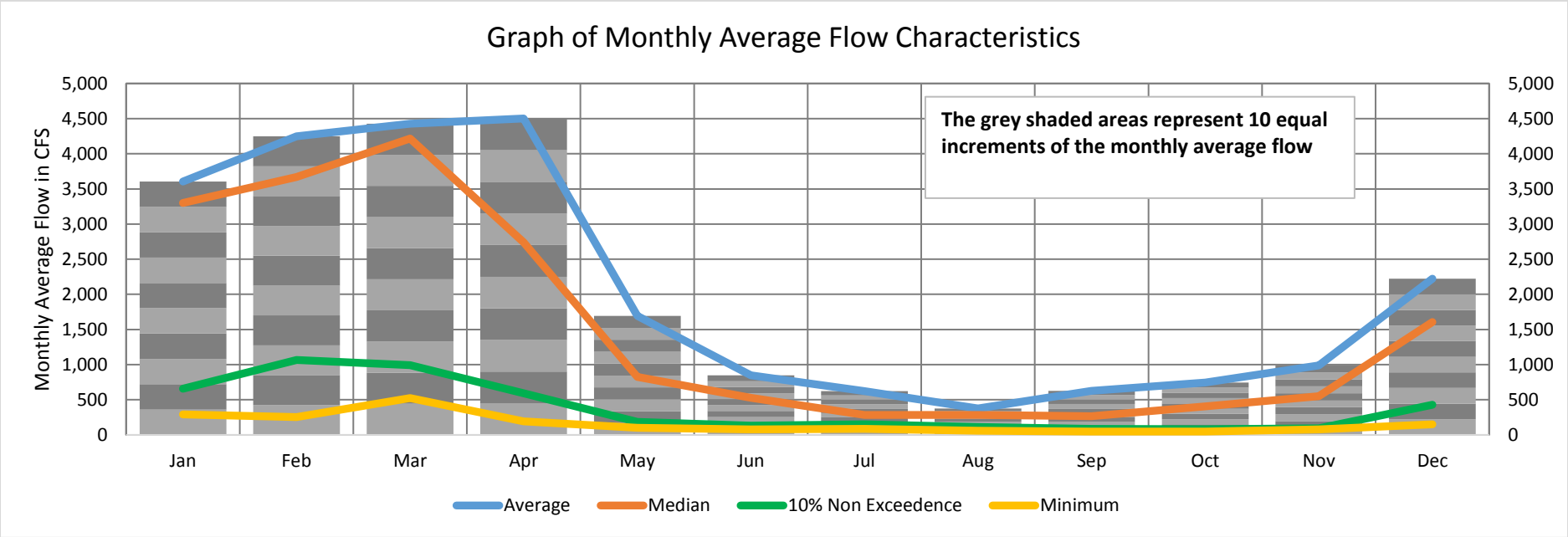
	Flows in CFS
Minimum	47.7
5th %	95
10th %	130
15th %	183
20th %	236
30th %	350
40th %	557
Median	930
60th %	1,548
70th %	2,485
80th %	3,541
90th %	5,266
Maximum	48,051
Average	2,076



Q10/Q50	0.14
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.03
Q5/DA	0.07
Q10/DA	0.09
Q15/DA	0.13
Q20/DA	0.16
Q30/DA	0.24
Q40/DA	0.38
Q50/DA	0.64
Q60/DA	1.06
Q70/DA	1.70
Q80/DA	2.43
Q90/DA	3.61
Qmax/DA	32.91

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

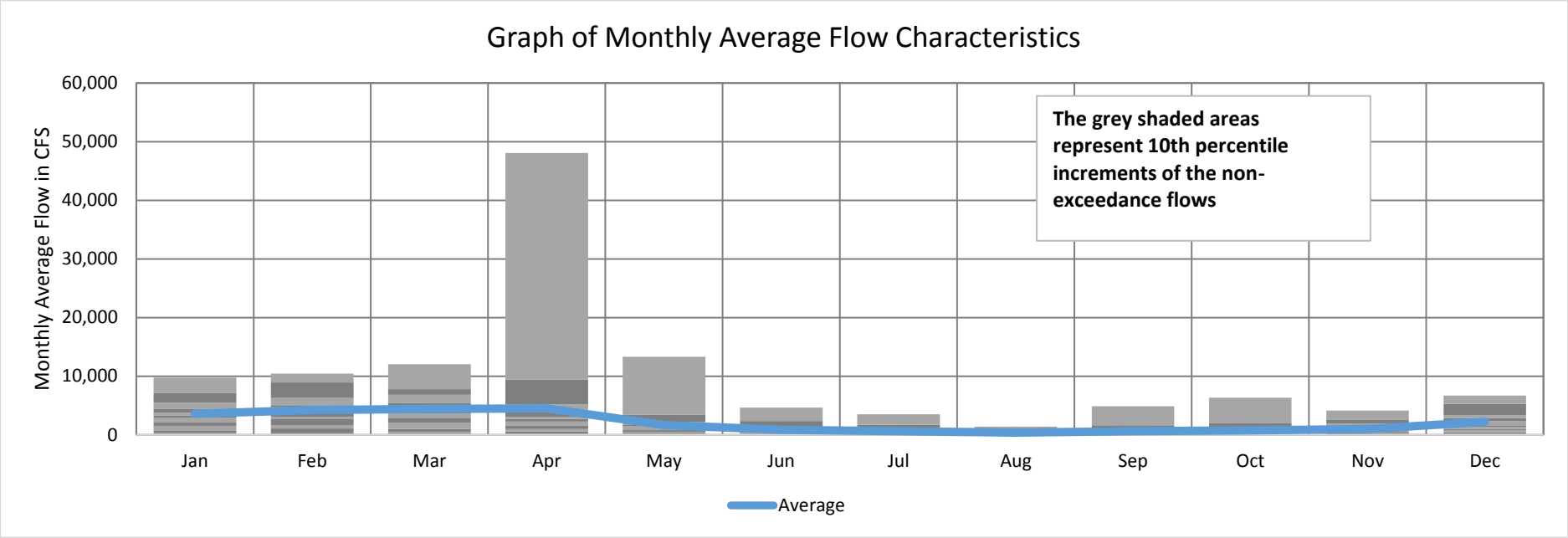
Site #: 03160108 Name: Noxubee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223
100%	9,750	10,418	12,055	48,051	13,318	4,644	3,486	1,383	4,877	6,345	4,146	6,680
98%	8,460	9,910	9,881	18,616	8,990	3,876	3,323	1,156	4,033	4,000	3,440	6,017
95%	7,979	9,632	8,748	9,746	5,317	2,502	2,261	1,015	2,086	3,156	3,041	5,330
90%	7,125	8,927	7,771	9,417	3,417	2,357	1,720	699	1,625	2,051	2,559	5,258
75%	4,974	5,553	5,624	4,636	1,968	916	595	480	438	593	1,387	3,252
50%	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607
25%	1,665	2,442	2,700	1,179	304	192	202	166	105	114	192	888
10%	656	1,066	993	593	187	131	150	113	88	81	93	430
5%	589	763	693	396	142	122	95	95	84	76	81	258
2%	405	512	588	254	114	82	86	87	75	70	78	165
0%	291	254	524	192	101	78	85	61	48	50	78	151

Site #: 03160108 Name: Noxubee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,460 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,604	4,249	4,428	4,502	1,691	849	625	376	629	746	990	2,223
100%	9,750	10,418	12,055	48,051	13,318	4,644	3,486	1,383	4,877	6,345	4,146	6,680
98%	8,460	9,910	9,881	18,616	8,990	3,876	3,323	1,156	4,033	4,000	3,440	6,017
95%	7,979	9,632	8,748	9,746	5,317	2,502	2,261	1,015	2,086	3,156	3,041	5,330
90%	7,125	8,927	7,771	9,417	3,417	2,357	1,720	699	1,625	2,051	2,559	5,258
75%	4,974	5,553	5,624	4,636	1,968	916	595	480	438	593	1,387	3,252
50%	3,301	3,668	4,216	2,742	826	527	285	286	266	406	550	1,607
25%	1,665	2,442	2,700	1,179	304	192	202	166	105	114	192	888
10%	656	1,066	993	593	187	131	150	113	88	81	93	430
5%	589	763	693	396	142	122	95	95	84	76	81	258
2%	405	512	588	254	114	82	86	87	75	70	78	165
0%	291	254	524	192	101	78	85	61	48	50	78	151

Monthly Flows (in CFS) for
03160109 - Mulberry Fork Subbasin

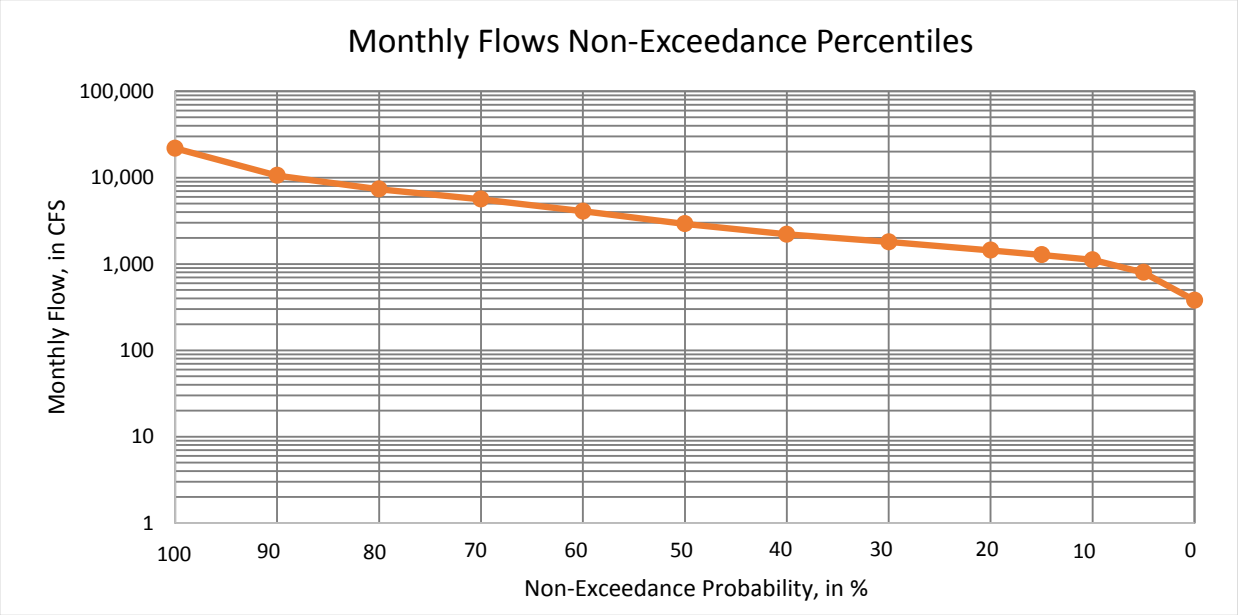
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	11,047	12,014	12,198	6,505	4,300	2,282	3,366	3,646	1,805	6,717	2,724	5,162	5,960
1976	7,856	5,836	13,025	5,109	9,251	2,560	2,116	1,635	1,902	1,135	1,348	3,438	4,611
1977	7,388	4,195	14,405	13,033	1,578	1,746	1,860	1,782	2,700	7,324	7,238	6,624	5,832
1978	7,285	4,318	4,972	1,663	6,656	3,571	1,796	1,729	1,415	796	792	1,905	3,078
1979	10,883	7,741	12,147	18,940	3,356	2,235	3,257	1,924	3,775	2,030	6,731	5,163	6,490
1980	7,696	5,729	21,814	16,025	7,245	2,075	1,831	1,638	1,933	2,289	3,605	4,517	6,377
1981	2,526	5,028	6,257	5,573	1,002	2,205	1,667	1,504	1,504	897	643	2,071	2,554
1982	9,767	10,173	5,574	9,506	2,964	3,361	2,290	2,209	1,119	866	1,977	10,661	5,008
1983	6,734	13,125	12,194	14,622	10,733	3,164	1,932	1,731	1,464	869	2,668	16,881	7,146
1984	7,033	6,134	6,219	10,581	8,704	1,786	1,739	1,701	1,045	963	1,831	4,107	4,311
1985	2,620	9,272	2,560	2,259	4,936	1,840	3,414	3,022	1,558	2,420	2,552	3,374	3,284
1986	1,899	3,467	3,329	953	1,306	2,286	1,388	1,246	1,438	1,296	2,538	4,430	2,124
1987	9,065	9,781	9,838	2,364	1,382	2,164	1,931	1,445	1,247	489	709	1,683	3,477
1988	4,408	4,140	1,943	2,994	1,002	1,136	1,116	1,240	1,957	1,803	4,052	3,334	2,412
1989	11,408	8,722	11,787	6,139	2,441	6,903	8,546	1,634	2,277	2,521	4,606	4,488	5,944
1990	11,999	21,847	12,378	2,918	3,299	1,948	1,697	1,440	1,217	614	759	5,793	5,400
1991	5,749	9,813	7,596	14,904	16,356	2,634	1,639	1,523	1,298	757	1,111	4,165	5,602
1992	3,077	5,160	3,436	1,942	776	1,634	1,873	2,520	2,585	1,207	5,694	6,281	2,998
1993	10,409	5,545	6,029	4,190	4,652	1,708	1,535	1,324	1,405	699	801	2,205	3,372
1994	7,074	11,054	14,210	10,313	1,905	1,893	2,751	2,265	1,725	2,170	3,209	7,051	5,435
1995	5,903	7,893	11,255	5,231	2,493	1,686	1,365	1,439	1,272	3,428	6,269	6,779	4,568
1996	10,477	8,111	9,960	6,009	2,244	1,940	2,791	2,005	2,183	1,131	3,133	5,845	4,639
1997	10,499	8,673	8,584	2,214	6,608	13,146	4,620	2,126	1,792	2,690	2,164	4,216	5,594
1998	15,276	11,994	10,538	8,693	2,178	1,732	1,835	2,040	1,157	853	799	3,416	5,007
1999	11,262	8,263	7,349	4,108	3,310	2,744	2,255	1,243	1,144	674	680	947	3,644
2000	2,962	1,985	13,646	14,213	1,157	1,138	1,107	1,167	911	473	1,268	1,347	3,450
2001	5,203	7,258	14,141	11,192	2,017	3,564	1,672	1,979	6,124	4,025	3,226	11,938	6,018
2002	9,222	6,777	5,421	4,430	7,325	1,630	2,526	1,460	2,303	3,191	7,518	8,115	4,990
2003	4,695	12,178	10,074	4,367	18,014	3,626	2,657	2,227	1,787	1,016	2,331	2,900	5,461
2004	4,624	12,928	6,611	1,916	1,678	3,808	3,572	1,597	2,506	1,195	7,817	11,962	4,964
2005	4,933	4,243	4,637	8,232	1,778	6,424	4,571	2,283	2,076	876	908	3,309	3,677
2006	5,719	9,245	4,937	3,600	3,726	1,337	1,213	1,508	1,126	1,749	4,212	2,627	3,378
2007	6,091	3,090	1,589	1,175	579	821	1,173	1,111	902	413	422	427	1,477
2008	680	3,827	5,439	2,975	5,414	1,597	1,341	1,434	1,131	525	545	6,460	2,616
2009	13,159	4,550	11,051	6,873	7,331	2,588	1,578	1,926	7,512	11,275	6,431	11,894	7,217
2010	7,750	8,390	7,984	5,528	7,674	2,165	1,497	1,297	697	380	411	1,309	3,736
2011	5,164	3,318	12,655	13,636	2,614	1,306	1,716	1,801	4,707	674	1,374	5,989	4,582
2012	12,333	6,515	5,874	1,921	1,274	942	1,577	1,818	2,668	2,242	1,305	3,890	3,525
2013	15,861	9,529	6,794	6,948	8,161	1,958	5,138	3,893	1,680	480	1,008	4,373	5,480
2014	5,299	7,527	3,449	9,378	2,902	3,943	1,773	1,421	1,338	2,971	1,633	6,916	4,017

Non-Exceedance Percentiles

03160109 - Mulberry Fork Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427	1,477
5th %	2,494	3,307	2,529	1,638	991	1,127	1,170	1,236	910	470	539	1,291	2,397
10th %	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650	2,609
15th %	4,209	4,186	4,458	2,173	1,301	1,558	1,385	1,320	1,131	601	752	2,046	3,066
20th %	4,681	4,303	4,965	2,343	1,539	1,633	1,527	1,431	1,154	674	797	2,543	3,354
30th %	5,271	5,429	5,784	3,418	1,983	1,742	1,659	1,455	1,290	836	1,080	3,362	3,511
40th %	6,016	6,363	6,469	4,405	2,472	1,921	1,730	1,567	1,429	889	1,364	4,020	3,904
Median	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402	4,597
60th %	7,792	8,314	10,005	6,652	3,956	2,254	1,931	1,790	1,797	1,477	2,599	5,162	4,996
70th %	9,960	9,253	11,415	8,898	5,772	2,602	2,361	1,942	1,993	2,192	3,214	6,076	5,443
80th %	10,916	9,885	12,234	10,703	7,326	3,402	2,884	2,143	2,344	2,554	4,290	6,807	5,648
90th %	12,033	12,030	13,695	14,253	8,759	3,821	3,672	2,307	2,808	3,487	6,461	10,784	6,054
Maximum	15,861	21,847	21,814	18,940	18,014	13,146	8,546	3,893	7,512	11,275	7,817	16,881	7,217
Average	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200	4,486

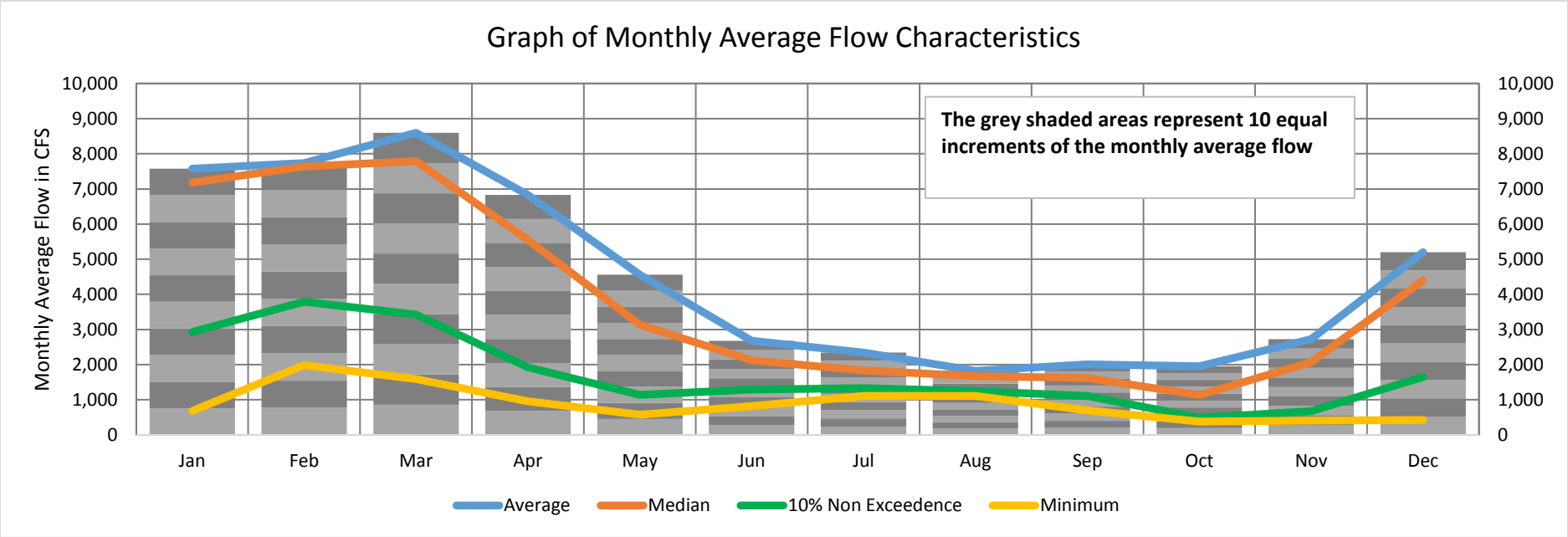
	Flows in CFS
Minimum	379.6
5th %	796
10th %	1,115
15th %	1,274
20th %	1,440
30th %	1,795
40th %	2,205
Median	2,910
60th %	4,074
70th %	5,610
80th %	7,326
90th %	10,589
Maximum	21,847
Average	4,503



Q10/Q50	0.38
Q10/Q90	0.11
	CFSM*
Qmin/DA	0.16
Q5/DA	0.33
Q10/DA	0.47
Q15/DA	0.53
Q20/DA	0.60
Q30/DA	0.75
Q40/DA	0.92
Q50/DA	1.22
Q60/DA	1.70
Q70/DA	2.35
Q80/DA	3.07
Q90/DA	4.43
Qmax/DA	9.14

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

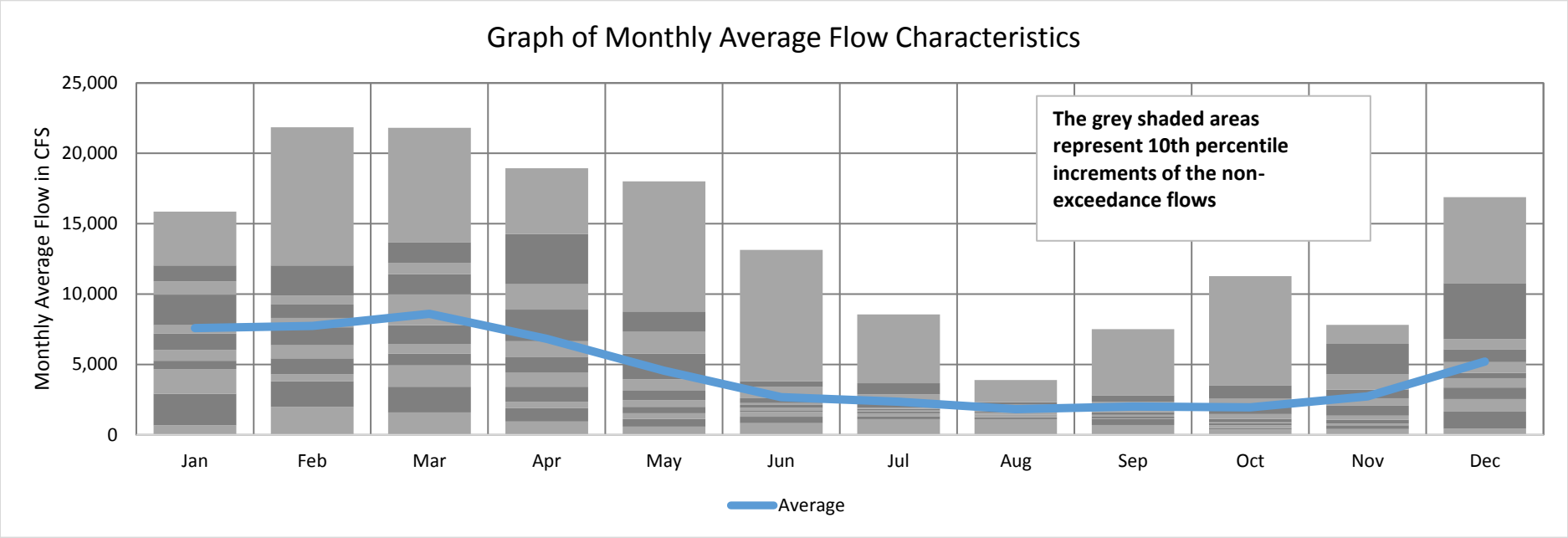
Site #: 03160109 Name: Mulberry Fork Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200
100%	15,861	21,847	21,814	18,940	18,014	13,146	8,546	3,893	7,512	11,275	7,817	16,881
98%	15,405	15,044	16,035	16,667	16,721	8,277	5,888	3,701	6,429	8,193	7,584	13,044
95%	13,265	12,938	14,220	14,960	11,014	6,448	4,645	3,053	4,778	6,747	7,252	11,939
90%	12,033	12,030	13,695	14,253	8,759	3,821	3,672	2,307	2,808	3,487	6,461	10,784
75%	10,482	9,592	12,159	9,708	6,803	2,849	2,681	2,014	2,207	2,321	3,717	6,501
50%	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402
25%	5,107	4,908	5,434	2,961	1,753	1,702	1,578	1,440	1,240	743	881	3,207
10%	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650
5%	2,494	3,307	2,529	1,638	991	1,127	1,170	1,236	910	470	539	1,291
2%	1,631	2,847	1,865	1,126	732	916	1,114	1,154	856	405	419	832
0%	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427

Site #: 03160109 Name: Mulberry Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 2,390 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	7,576	7,735	8,597	6,829	4,558	2,681	2,343	1,823	2,010	1,953	2,726	5,200
100%	15,861	21,847	21,814	18,940	18,014	13,146	8,546	3,893	7,512	11,275	7,817	16,881
98%	15,405	15,044	16,035	16,667	16,721	8,277	5,888	3,701	6,429	8,193	7,584	13,044
95%	13,265	12,938	14,220	14,960	11,014	6,448	4,645	3,053	4,778	6,747	7,252	11,939
90%	12,033	12,030	13,695	14,253	8,759	3,821	3,672	2,307	2,808	3,487	6,461	10,784
75%	10,482	9,592	12,159	9,708	6,803	2,849	2,681	2,014	2,207	2,321	3,717	6,501
50%	7,179	7,634	7,790	5,551	3,132	2,119	1,833	1,670	1,619	1,133	2,070	4,402
25%	5,107	4,908	5,434	2,961	1,753	1,702	1,578	1,440	1,240	743	881	3,207
10%	2,928	3,791	3,425	1,921	1,142	1,289	1,328	1,246	1,111	488	677	1,650
5%	2,494	3,307	2,529	1,638	991	1,127	1,170	1,236	910	470	539	1,291
2%	1,631	2,847	1,865	1,126	732	916	1,114	1,154	856	405	419	832
0%	680	1,985	1,589	953	579	821	1,107	1,111	697	380	411	427

Monthly Flows (in CFS) for
03160110 - Sipsey Fork Subbasin

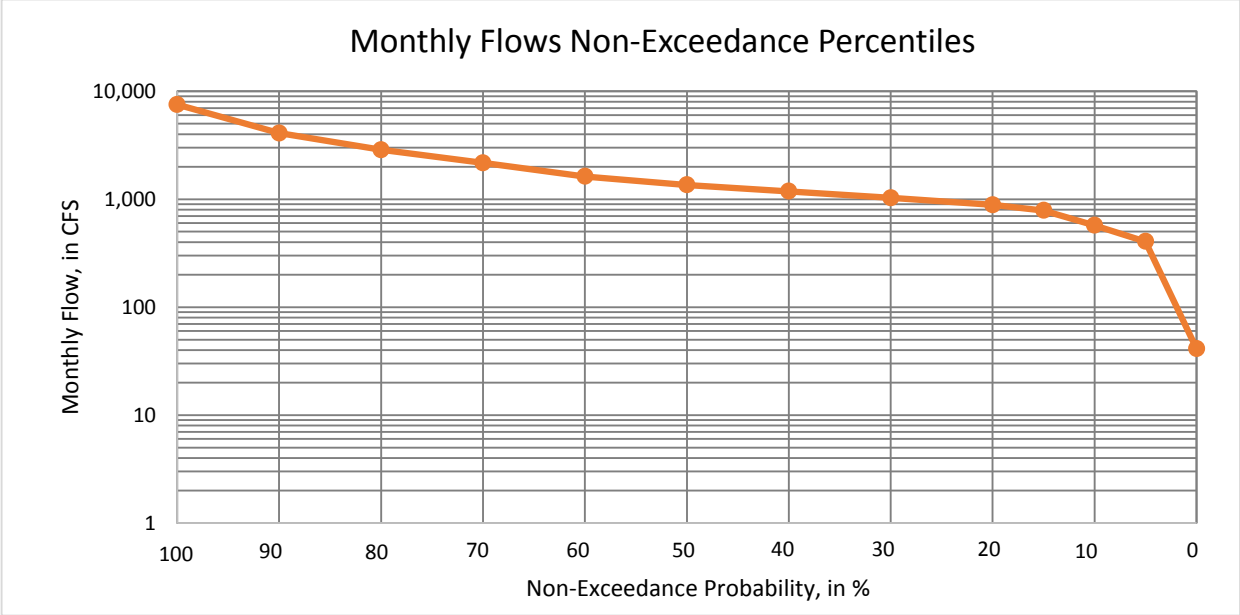
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,679	3,669	3,916	3,450	1,609	1,188	1,265	1,601	887	2,173	1,353	2,589	2,276
1976	2,468	2,053	5,306	2,732	4,942	1,215	1,099	1,155	1,394	785	784	1,430	2,120
1977	3,027	1,192	4,792	5,145	997	1,414	1,474	1,419	1,363	2,880	2,171	3,680	2,473
1978	2,981	2,470	1,402	478	2,790	1,905	1,414	1,384	1,182	627	590	915	1,509
1979	3,865	3,093	5,042	7,405	1,773	1,426	2,158	1,275	786	1,130	2,497	2,819	2,767
1980	2,668	2,452	6,108	7,528	3,234	1,340	1,458	1,308	813	822	1,113	2,713	2,630
1981	1,672	1,825	2,208	2,000	443	1,291	1,316	1,195	1,205	533	289	557	1,206
1982	2,267	3,897	2,511	3,233	1,498	2,173	1,554	1,355	881	619	953	4,249	2,088
1983	3,390	5,365	4,749	6,170	4,098	1,795	1,409	1,358	1,122	581	969	6,230	3,091
1984	2,787	2,753	1,987	4,394	2,623	1,174	1,271	1,230	851	264	332	2,349	1,829
1985	1,069	3,036	993	499	1,653	1,243	1,709	1,634	1,166	1,393	1,504	1,652	1,454
1986	923	1,000	832	370	406	1,311	1,078	1,008	1,169	789	777	2,038	976
1987	4,216	3,349	4,660	1,111	783	1,447	1,000	1,175	1,007	377	442	795	1,691
1988	1,564	1,706	816	709	452	922	877	1,045	805	853	1,493	1,626	1,068
1989	2,900	2,741	4,974	2,294	1,041	2,229	3,344	1,014	1,519	1,154	2,153	2,302	2,305
1990	3,087	6,484	5,176	1,248	1,078	929	1,119	1,192	1,018	448	485	1,503	1,955
1991	2,734	2,585	1,904	5,176	6,459	1,231	1,104	1,108	914	535	572	1,252	2,129
1992	984	913	556	374	277	627	1,135	1,291	1,400	816	2,024	2,194	1,050
1993	3,632	2,283	1,922	1,910	2,320	1,022	1,137	1,044	1,125	552	402	730	1,504
1994	2,102	2,690	4,724	5,050	853	1,161	1,356	1,528	1,143	825	1,565	2,906	2,153
1995	2,108	2,879	4,991	2,112	1,285	1,058	1,074	1,142	986	1,503	2,465	2,540	2,009
1996	3,447	4,103	4,448	2,489	1,156	970	1,738	1,305	896	559	1,173	1,705	1,989
1997	4,110	3,480	4,022	1,004	2,325	4,723	2,124	1,502	1,227	861	979	1,841	2,345
1998	6,024	5,229	5,027	3,668	1,180	1,051	1,211	1,242	901	650	513	1,183	2,308
1999	4,057	4,015	3,323	1,489	1,066	1,169	1,282	1,010	967	519	413	609	1,648
2000	1,232	655	7,117	6,983	619	808	894	938	765	376	154	41	1,719
2001	1,481	2,073	6,196	5,186	813	1,575	1,022	1,313	3,240	2,012	1,796	5,481	2,684
2002	4,232	3,259	1,692	1,890	2,900	959	1,379	1,022	1,269	1,013	2,936	3,215	2,142
2003	2,126	3,496	4,874	1,560	7,445	2,003	1,552	1,399	997	691	1,199	1,339	2,391
2004	1,720	4,039	2,570	847	897	1,452	1,708	1,164	1,514	441	2,860	4,635	1,974
2005	2,569	1,392	1,952	3,510	812	2,681	2,332	1,448	1,244	576	432	1,188	1,677
2006	1,570	4,285	1,742	1,361	1,512	1,009	1,004	1,245	735	175	1,308	1,054	1,397
2007	2,187	1,197	520	414	286	663	891	939	658	310	270	289	717
2008	266	1,264	1,348	1,461	2,532	1,022	1,047	1,004	871	344	336	1,376	1,073
2009	4,209	1,886	4,481	2,580	2,200	1,246	1,123	1,094	3,703	5,340	3,578	5,318	3,076
2010	2,769	3,856	2,729	2,084	2,929	1,145	1,002	966	545	267	152	455	1,563
2011	1,865	976	4,093	5,019	1,353	907	1,122	1,030	812	313	225	1,622	1,615
2012	5,441	3,122	1,715	1,020	613	528	965	1,235	1,617	1,032	863	1,024	1,592
2013	5,613	3,799	2,549	2,596	3,114	1,110	3,109	2,171	1,249	300	586	1,339	2,292
2014	2,826	1,967	1,048	3,588	1,437	2,009	1,260	1,132	1,061	1,934	733	2,660	1,803

Non-Exceedance Percentiles

03160110 - Sipsey Fork Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	266	655	520	370	277	528	877	938	545	175	152	41	717
5th %	981	973	803	412	400	662	894	965	731	267	222	447	1,046
10th %	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604	1,072
15th %	1,551	1,254	1,303	827	618	928	1,004	1,013	811	339	336	785	1,368
20th %	1,652	1,643	1,634	1,017	806	968	1,042	1,028	843	377	411	1,002	1,494
30th %	2,106	2,027	1,917	1,431	967	1,043	1,103	1,104	894	529	505	1,233	1,608
40th %	2,388	2,463	2,390	1,902	1,125	1,155	1,130	1,160	978	569	676	1,408	1,708
Median	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639	1,964
60th %	2,932	3,105	4,235	2,650	1,626	1,264	1,332	1,257	1,152	800	1,137	2,101	2,101
70th %	3,407	3,485	4,732	3,534	2,322	1,418	1,427	1,309	1,212	855	1,395	2,554	2,190
80th %	3,903	3,864	4,978	5,025	2,812	1,619	1,585	1,387	1,288	1,135	1,841	2,837	2,315
90th %	4,217	4,121	5,189	5,285	3,320	2,025	2,127	1,505	1,514	1,942	2,468	4,288	2,636
Maximum	6,024	6,484	7,117	7,528	7,445	4,723	3,344	2,171	3,703	5,340	3,578	6,230	3,091
Average	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086	1,907

	Flows in CFS
Minimum	41.2
5th %	406
10th %	571
15th %	785
20th %	886
30th %	1,028
40th %	1,182
Median	1,357
60th %	1,624
70th %	2,171
80th %	2,864
90th %	4,099
Maximum	7,528
Average	1,911

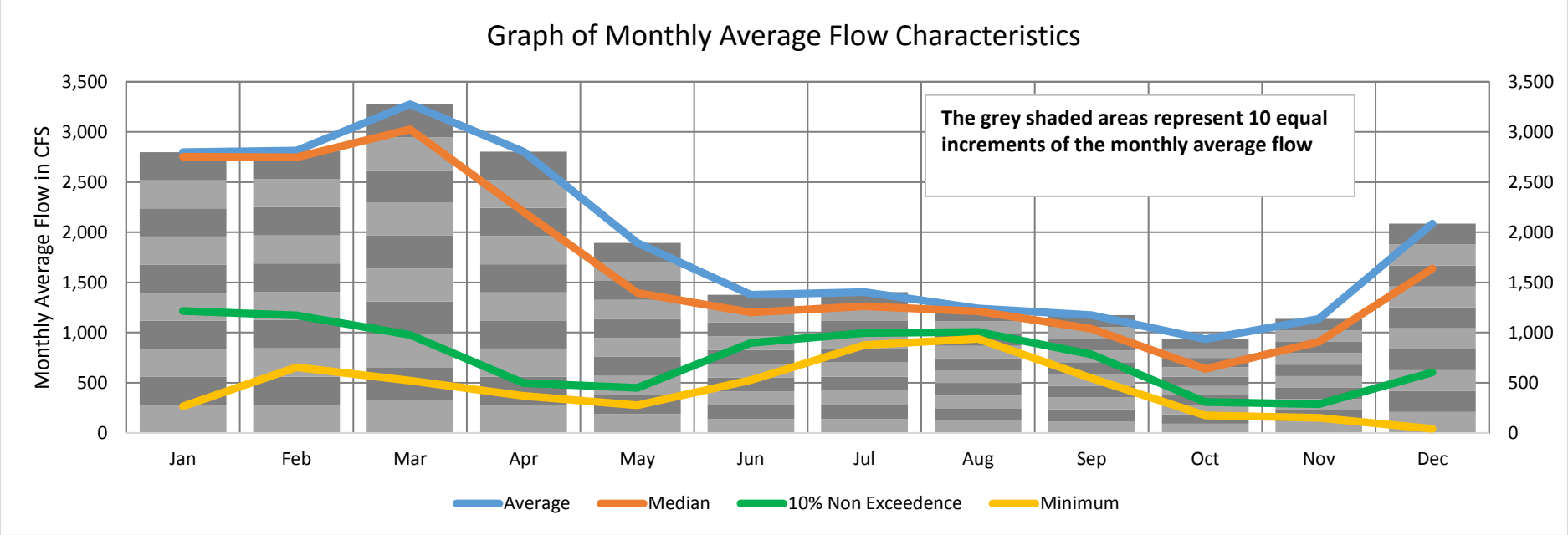


Q10/Q50	0.42
Q10/Q90	0.14
	CFSM*
Qmin/DA	0.04
Q5/DA	0.40
Q10/DA	0.57
Q15/DA	0.78
Q20/DA	0.88
Q30/DA	1.02
Q40/DA	1.17
Q50/DA	1.34
Q60/DA	1.61
Q70/DA	2.15
Q80/DA	2.84
Q90/DA	4.06
Qmax/DA	7.45

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 03160110 Name: Sipsey Fork Subbasin
Period of Record: Jan-1975 - Dec-2014

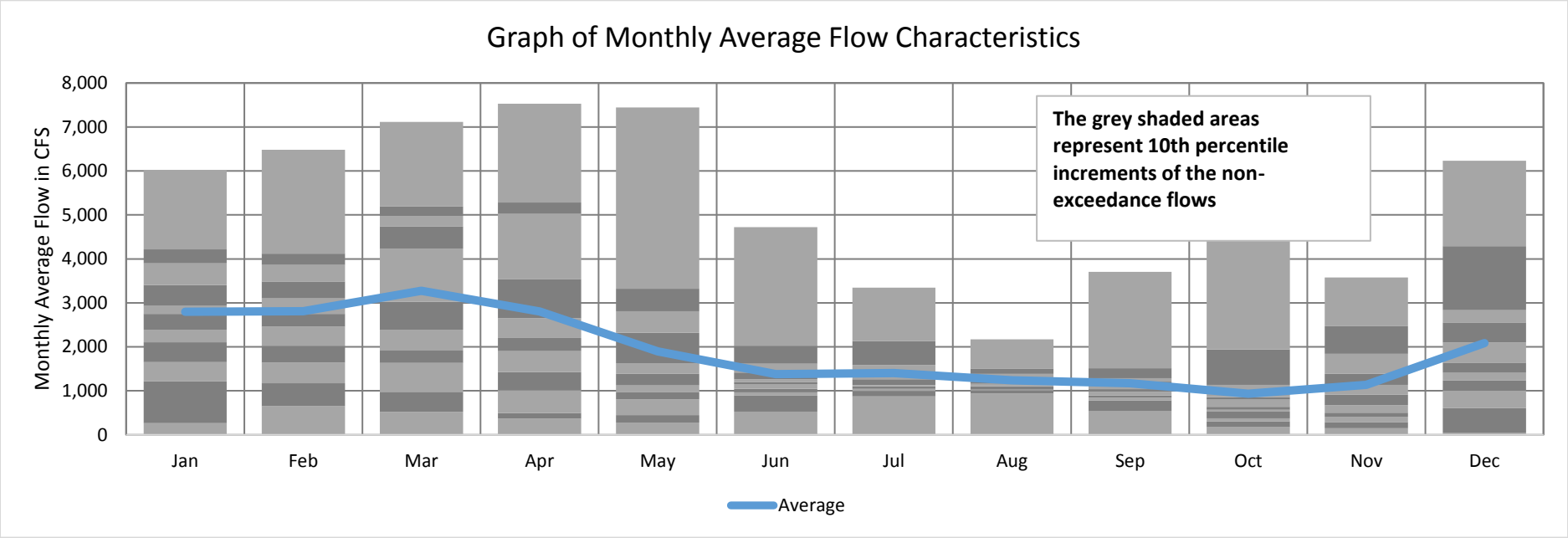
STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086
100%	6,024	6,484	7,117	7,528	7,445	4,723	3,344	2,171	3,703	5,340	3,578	6,230
98%	5,704	5,611	6,399	7,432	6,676	3,130	3,161	1,752	3,342	3,421	3,077	5,646
95%	5,450	5,236	6,112	7,004	5,018	2,251	2,371	1,602	1,699	2,208	2,864	5,326
90%	4,217	4,121	5,189	5,285	3,320	2,025	2,127	1,505	1,514	1,942	2,468	4,288
75%	3,644	3,701	4,813	3,850	2,555	1,448	1,493	1,356	1,245	1,018	1,519	2,673
50%	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639
25%	1,829	1,871	1,736	1,214	843	1,019	1,077	1,045	878	446	440	1,150
10%	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604
5%	981	973	803	412	400	662	894	965	731	267	222	447
2%	778	857	548	373	284	605	888	939	633	245	154	235
0%	266	655	520	370	277	528	877	938	545	175	152	41

Site #: 03160110 Name: Sipsey Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,010 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,797	2,813	3,276	2,804	1,895	1,378	1,403	1,241	1,175	934	1,136	2,086
100%	6,024	6,484	7,117	7,528	7,445	4,723	3,344	2,171	3,703	5,340	3,578	6,230
98%	5,704	5,611	6,399	7,432	6,676	3,130	3,161	1,752	3,342	3,421	3,077	5,646
95%	5,450	5,236	6,112	7,004	5,018	2,251	2,371	1,602	1,699	2,208	2,864	5,326
90%	4,217	4,121	5,189	5,285	3,320	2,025	2,127	1,505	1,514	1,942	2,468	4,288
75%	3,644	3,701	4,813	3,850	2,555	1,448	1,493	1,356	1,245	1,018	1,519	2,673
50%	2,752	2,747	3,026	2,203	1,395	1,201	1,262	1,212	1,040	638	908	1,639
25%	1,829	1,871	1,736	1,214	843	1,019	1,077	1,045	878	446	440	1,150
10%	1,216	1,173	977	497	451	897	997	1,007	784	309	287	604
5%	981	973	803	412	400	662	894	965	731	267	222	447
2%	778	857	548	373	284	605	888	939	633	245	154	235
0%	266	655	520	370	277	528	877	938	545	175	152	41

Monthly Flows (in CFS) for
03160111 - Locust Fork Subbasin

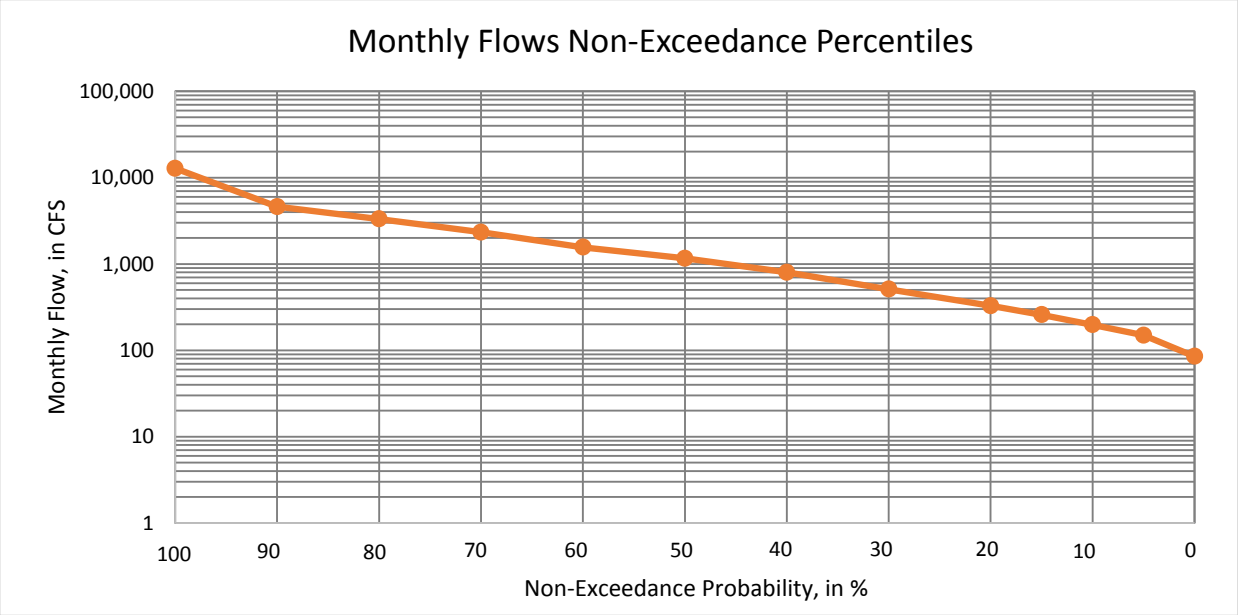
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	5,172	6,356	5,972	2,258	1,405	719	1,434	1,488	1,053	2,004	1,224	1,798	2,556
1976	5,050	2,522	8,122	2,973	2,853	1,404	775	480	571	268	445	1,895	2,288
1977	3,362	2,084	7,335	6,356	592	281	339	260	1,617	3,918	4,405	2,103	2,721
1978	4,292	1,363	2,912	1,041	3,151	930	373	547	218	123	219	960	1,352
1979	4,608	3,482	5,895	9,462	1,373	1,002	511	609	3,343	1,058	3,061	968	2,929
1980	3,310	2,983	12,808	6,155	3,277	663	288	246	976	1,345	1,375	1,004	2,875
1981	522	3,159	3,075	2,760	442	684	308	361	444	194	183	1,528	1,123
1982	5,626	4,775	2,410	4,423	1,363	1,209	700	537	227	335	540	6,251	2,355
1983	2,160	5,237	3,950	5,492	5,965	1,164	328	167	149	201	1,488	7,870	2,836
1984	3,211	1,896	2,671	4,359	3,370	408	243	436	132	260	683	1,111	1,564
1985	950	4,947	1,344	1,113	1,524	342	2,566	1,067	252	634	975	1,461	1,411
1986	902	1,516	1,224	392	528	477	178	247	324	493	1,645	1,514	781
1987	962	3,343	4,603	1,538	432	682	1,232	165	144	93	185	365	1,133
1988	2,078	1,955	1,026	1,685	419	115	197	119	1,310	734	1,989	1,279	1,066
1989	5,761	3,372	5,131	2,990	1,136	4,112	3,796	339	623	1,153	2,009	1,765	2,679
1990	5,615	10,194	4,776	1,042	1,045	486	318	135	126	114	197	1,096	2,047
1991	1,564	3,891	3,110	3,049	4,690	798	316	313	299	137	321	1,101	1,620
1992	1,382	2,508	2,064	1,268	343	473	800	827	1,191	457	3,171	3,530	1,493
1993	5,434	2,299	3,349	1,864	1,395	353	188	258	188	144	275	733	1,373
1994	3,047	3,550	4,638	3,698	779	714	1,439	503	600	1,354	1,252	3,309	2,067
1995	2,336	3,337	4,411	1,556	659	346	172	166	252	3,565	3,060	2,472	1,855
1996	6,800	3,520	5,219	1,821	816	391	771	487	815	477	990	2,299	2,033
1997	4,339	3,402	4,006	1,526	2,763	5,875	1,931	497	572	1,563	1,261	1,571	2,436
1998	6,540	5,562	4,134	4,744	842	585	342	381	135	106	252	1,123	2,040
1999	4,159	3,308	3,213	1,511	1,026	1,972	1,061	191	120	199	204	265	1,426
2000	936	872	4,443	5,713	392	246	147	146	108	103	697	553	1,194
2001	2,205	3,435	7,136	4,887	749	1,392	799	477	2,717	508	563	3,136	2,324
2002	3,708	2,398	2,650	2,133	2,305	444	812	251	740	1,159	2,409	3,994	1,918
2003	1,772	4,572	4,395	1,738	8,741	1,795	1,177	450	288	169	276	464	2,145
2004	1,353	5,851	2,355	878	545	1,195	998	375	1,791	936	7,705	4,164	2,311
2005	1,163	2,054	3,261	4,058	829	1,066	1,860	490	213	146	246	985	1,358
2006	2,276	3,699	2,513	2,477	1,689	259	187	209	297	594	960	662	1,302
2007	2,275	1,188	989	591	231	121	212	102	176	85	111	171	519
2008	402	1,747	2,196	1,303	2,115	556	239	729	209	121	149	2,426	1,015
2009	6,203	2,028	5,539	2,990	3,704	1,021	544	535	2,057	3,623	2,806	4,719	2,997
2010	3,194	3,374	4,618	2,451	2,615	1,164	360	301	159	198	290	485	1,593
2011	1,280	1,410	4,811	3,566	710	295	525	155	4,076	297	1,033	3,509	1,804
2012	4,378	2,363	2,775	667	484	291	470	703	871	535	300	2,307	1,346
2013	6,243	4,329	3,093	3,188	4,631	1,530	1,331	2,321	517	173	457	2,958	2,562
2014	1,897	4,502	2,328	5,532	1,492	889	249	195	154	334	464	2,120	1,656

Non-Exceedance Percentiles

03160111 - Locust Fork Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	402	872	989	392	231	115	147	102	108	85	111	171	519
5th %	883	1,354	1,214	663	389	240	177	135	126	102	181	360	1,003
10th %	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483	1,117
15th %	1,132	1,873	2,308	1,103	477	294	210	166	149	123	216	646	1,184
20th %	1,339	2,014	2,399	1,296	541	346	242	186	158	142	251	915	1,337
30th %	1,860	2,344	2,744	1,550	737	433	314	247	212	188	297	1,068	1,399
40th %	2,247	2,799	3,103	1,847	837	528	340	285	252	236	461	1,216	1,581
Median	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550	1,829
60th %	3,500	3,415	4,401	2,990	1,440	834	729	461	571	499	1,007	1,978	2,043
70th %	4,350	3,595	4,624	3,606	2,172	1,034	804	492	763	664	1,295	2,343	2,295
80th %	5,224	4,516	5,149	4,487	2,913	1,198	1,188	539	1,081	1,154	1,993	3,171	2,460
90th %	5,805	5,270	6,088	5,550	3,796	1,557	1,481	739	1,817	1,607	3,060	4,011	2,733
Maximum	6,800	10,194	12,808	9,462	8,741	5,875	3,796	2,321	4,076	3,918	7,705	7,870	2,997
Average	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051	1,853

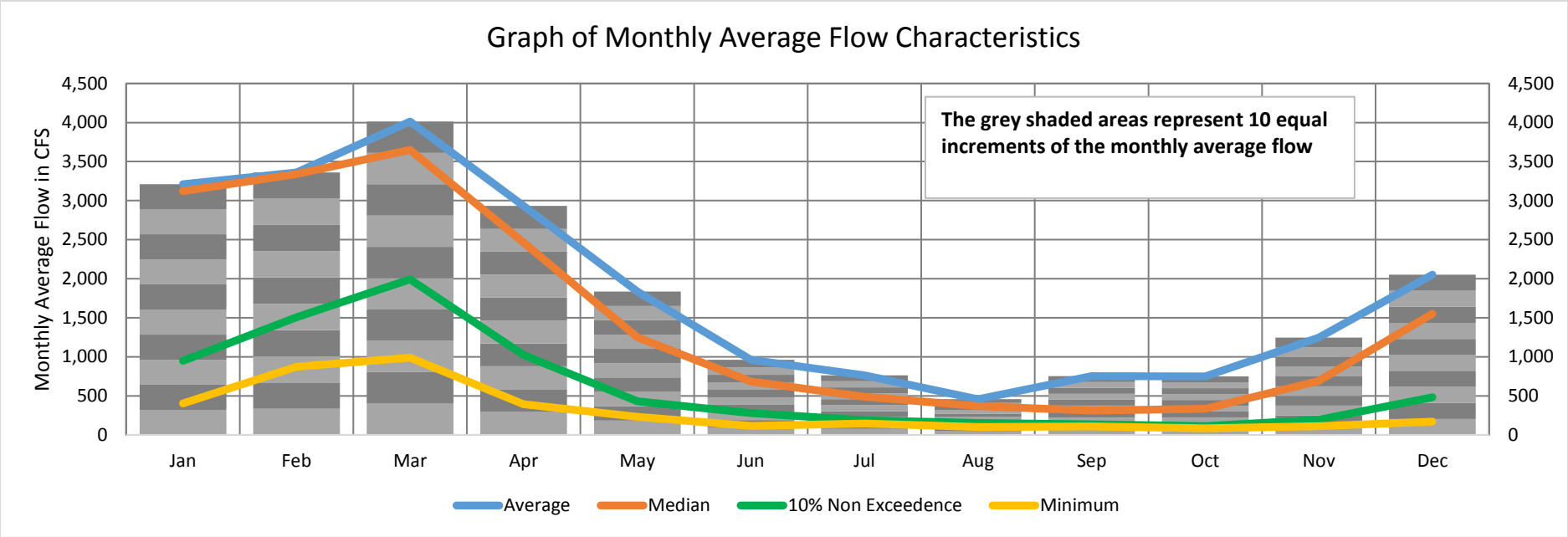
	Flows in CFS
Minimum	85.0
5th %	149
10th %	198
15th %	258
20th %	327
30th %	510
40th %	800
Median	1,161
60th %	1,558
70th %	2,331
80th %	3,309
90th %	4,603
Maximum	12,808
Average	1,861



Q10/Q50	0.17
Q10/Q90	0.04
	CFSM*
Qmin/DA	0.07
Q5/DA	0.12
Q10/DA	0.16
Q15/DA	0.21
Q20/DA	0.27
Q30/DA	0.42
Q40/DA	0.66
Q50/DA	0.96
Q60/DA	1.29
Q70/DA	1.93
Q80/DA	2.74
Q90/DA	3.80
Qmax/DA	10.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

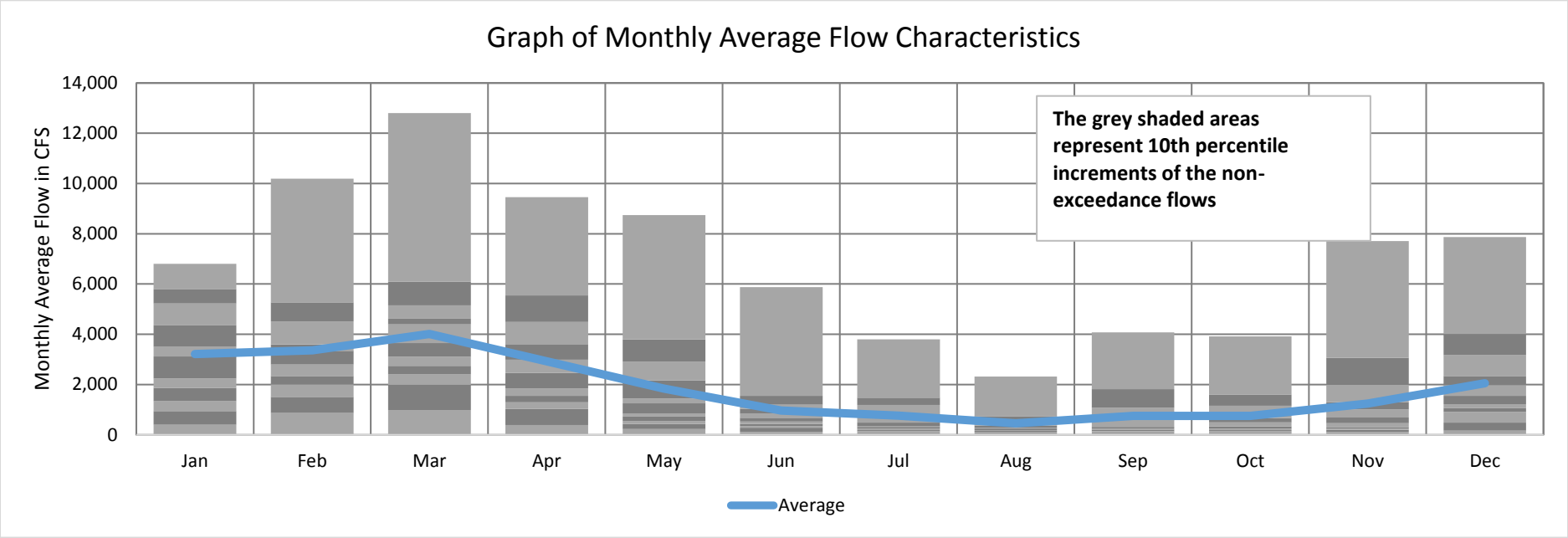
Site #: 03160111 Name: Locust Fork Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051
100%	6,800	10,194	12,808	9,462	8,741	5,875	3,796	2,321	4,076	3,918	7,705	7,870
98%	6,597	7,200	9,153	7,039	6,575	4,500	2,836	1,672	3,504	3,688	5,131	6,608
95%	6,257	5,876	7,374	6,165	4,754	2,079	1,963	1,088	2,748	3,567	3,233	4,796
90%	5,805	5,270	6,088	5,550	3,796	1,557	1,481	739	1,817	1,607	3,060	4,011
75%	4,718	4,000	4,784	4,133	2,652	1,164	1,014	511	897	966	1,527	2,594
50%	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550
25%	1,518	2,077	2,616	1,522	642	381	278	206	185	163	276	981
10%	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483
5%	883	1,354	1,214	663	389	240	177	135	126	102	181	360
2%	496	1,119	1,018	547	318	120	166	115	117	92	141	245
0%	402	872	989	392	231	115	147	102	108	85	111	171

Site #: 03160111 Name: Locust Fork Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,210 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	3,212	3,360	4,012	2,931	1,835	961	763	457	751	748	1,247	2,051
100%	6,800	10,194	12,808	9,462	8,741	5,875	3,796	2,321	4,076	3,918	7,705	7,870
98%	6,597	7,200	9,153	7,039	6,575	4,500	2,836	1,672	3,504	3,688	5,131	6,608
95%	6,257	5,876	7,374	6,165	4,754	2,079	1,963	1,088	2,748	3,567	3,233	4,796
90%	5,805	5,270	6,088	5,550	3,796	1,557	1,481	739	1,817	1,607	3,060	4,011
75%	4,718	4,000	4,784	4,133	2,652	1,164	1,014	511	897	966	1,527	2,594
50%	3,120	3,340	3,649	2,464	1,250	683	491	368	311	334	690	1,550
25%	1,518	2,077	2,616	1,522	642	381	278	206	185	163	276	981
10%	948	1,505	1,992	1,024	431	279	188	154	135	113	196	483
5%	883	1,354	1,214	663	389	240	177	135	126	102	181	360
2%	496	1,119	1,018	547	318	120	166	115	117	92	141	245
0%	402	872	989	392	231	115	147	102	108	85	111	171

Monthly Flows (in CFS) for
03160113 - Lower Black Warrior River Subbasin

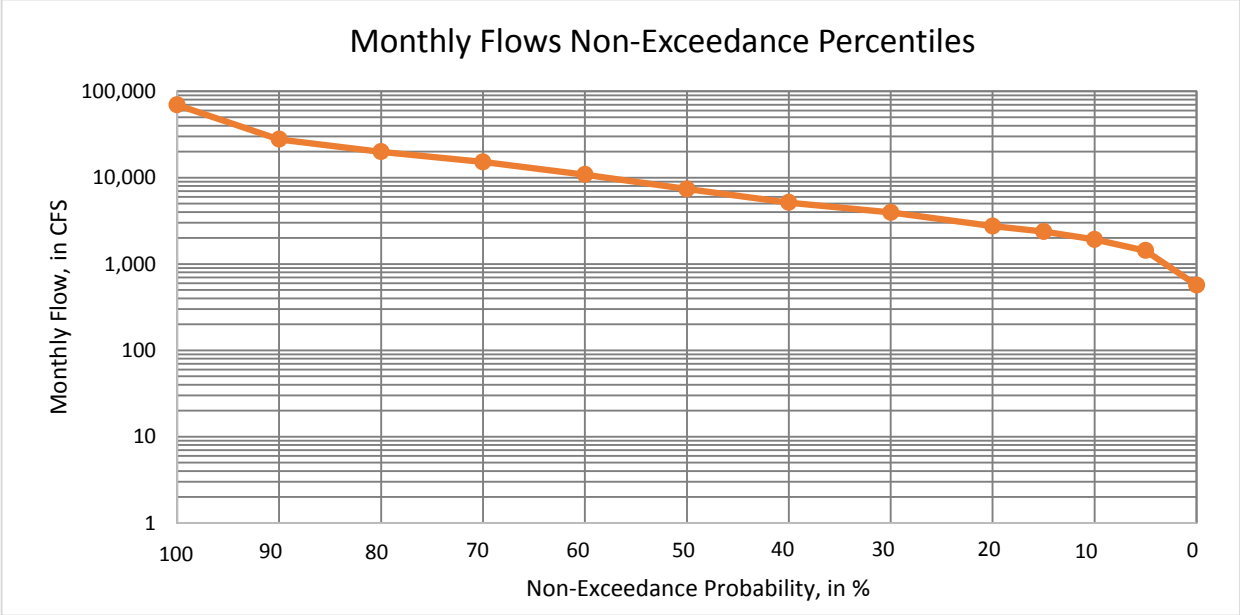
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	28,207	31,768	34,671	18,823	9,305	5,027	7,326	8,056	4,233	13,793	6,376	11,972	14,894
1976	21,814	13,904	34,223	17,533	21,814	6,411	4,346	3,216	3,731	1,732	2,383	9,628	11,756
1977	18,487	9,712	38,182	34,794	3,312	2,303	3,005	2,781	5,280	16,179	16,485	14,630	13,785
1978	18,130	10,993	13,081	4,800	15,907	8,176	2,639	2,687	1,918	1,037	1,058	4,030	7,039
1979	23,856	19,340	37,339	69,339	8,346	4,972	6,567	3,953	9,225	4,136	13,979	10,503	17,542
1980	18,455	16,502	57,449	50,581	18,917	4,659	3,159	2,544	2,655	5,775	6,791	8,713	16,351
1981	3,599	13,497	11,989	18,462	2,001	3,787	2,339	2,049	2,159	1,095	1,018	4,707	5,484
1982	23,990	26,607	16,590	22,958	8,188	7,355	4,851	4,739	1,784	1,511	2,861	27,693	12,351
1983	17,080	38,015	32,422	37,372	27,414	10,071	4,648	2,634	2,476	1,407	5,903	35,031	17,750
1984	22,727	15,158	16,365	22,546	23,324	3,926	3,255	4,219	1,392	2,309	4,053	11,271	10,875
1985	5,648	27,262	8,872	6,723	10,201	3,613	7,826	7,249	2,688	5,675	6,054	9,097	8,294
1986	5,136	8,244	7,762	1,955	2,977	4,452	2,039	1,913	2,302	2,670	7,366	13,215	4,987
1987	25,416	20,537	33,557	8,251	3,923	5,856	5,080	2,409	2,133	569	958	3,131	9,281
1988	11,382	11,215	5,220	8,546	1,624	1,424	2,648	1,886	4,700	4,703	12,255	8,928	6,164
1989	28,297	18,062	33,615	19,836	8,099	18,448	24,899	4,122	4,740	7,643	13,444	15,329	16,389
1990	36,704	65,835	37,056	11,015	9,229	5,090	3,406	2,377	1,759	918	1,393	9,040	15,018
1991	16,393	24,369	28,868	27,406	43,771	10,769	4,478	3,060	3,243	1,592	3,289	10,346	14,760
1992	11,950	18,293	13,026	8,055	2,055	4,086	4,007	6,144	8,301	2,879	18,000	20,112	9,673
1993	36,388	18,186	18,942	13,994	11,583	3,628	3,104	3,582	2,648	1,573	2,712	5,656	10,149
1994	15,177	20,906	25,947	30,456	5,115	4,643	8,062	5,265	4,179	6,637	6,890	19,234	12,655
1995	15,157	20,264	29,870	12,948	7,093	4,087	2,731	2,892	1,973	10,075	17,019	16,914	11,712
1996	28,257	31,207	30,019	15,181	5,441	3,572	6,177	4,451	4,545	2,867	6,933	13,053	12,545
1997	26,059	25,148	24,764	10,024	12,802	27,877	17,224	5,669	3,112	5,683	6,476	10,897	14,589
1998	39,908	32,840	28,993	23,231	6,284	3,951	4,246	4,138	2,462	2,716	2,454	7,446	13,118
1999	23,603	28,749	22,553	10,093	6,588	6,917	7,289	2,129	1,799	1,430	1,565	2,866	9,524
2000	7,454	5,495	24,254	31,956	3,082	2,418	1,716	1,642	1,326	683	4,162	4,891	7,411
2001	12,617	19,739	38,307	24,111	3,858	9,318	3,550	3,483	14,006	8,505	5,571	25,137	13,978
2002	22,076	20,738	13,362	12,042	12,209	3,219	4,850	2,616	4,956	7,409	17,428	22,047	11,868
2003	13,034	26,276	31,010	16,822	37,601	12,236	9,844	6,358	3,639	2,579	4,479	6,163	14,124
2004	11,375	36,413	17,108	6,439	4,233	7,992	9,117	4,100	7,096	3,642	24,407	30,912	13,405
2005	13,287	17,410	17,539	30,740	6,029	21,510	18,917	5,070	6,174	2,293	2,183	7,691	12,332
2006	13,044	25,345	19,638	15,470	11,011	2,339	1,852	2,028	1,968	3,653	7,785	4,794	8,967
2007	15,793	8,786	4,678	2,732	1,037	1,117	2,302	1,631	1,572	714	705	782	3,465
2008	1,653	11,517	12,698	8,050	11,700	3,675	2,004	3,756	1,922	713	774	12,801	5,918
2009	26,586	6,556	32,669	30,370	21,031	7,264	3,006	4,192	18,986	25,316	19,892	31,683	19,063
2010	22,761	28,614	27,558	13,078	16,663	6,117	3,170	1,924	618	994	1,617	3,297	10,442
2011	10,159	9,708	34,437	26,843	5,951	1,710	2,746	1,983	14,658	1,254	2,847	15,659	10,661
2012	26,642	18,811	18,784	4,689	3,406	1,819	2,793	4,634	6,450	3,813	2,199	12,973	8,893
2013	38,230	36,845	24,053	17,722	20,162	6,447	11,428	9,366	2,808	1,044	2,509	15,276	15,404
2014	13,906	23,835	16,143	32,687	12,471	7,182	2,499	1,807	1,597	4,077	3,397	14,255	11,050

Non-Exceedance Percentiles

03160113 - Lower Black Warrior River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782	3,465
5th %	5,059	8,160	7,635	4,591	1,982	1,696	1,997	1,799	1,389	711	949	3,118	5,460
10th %	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956	6,140
15th %	11,193	10,801	12,977	7,851	3,277	2,406	2,475	1,974	1,780	1,031	1,539	4,781	7,355
20th %	11,836	11,456	13,306	8,212	3,767	3,501	2,646	2,045	1,894	1,085	2,070	5,503	8,773
30th %	13,214	16,098	16,953	10,738	5,343	3,754	2,941	2,504	2,085	1,487	2,493	8,407	9,629
40th %	15,546	18,250	19,360	13,627	6,466	4,087	3,165	2,744	2,470	2,069	3,118	9,415	10,790
Median	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084	11,812
60th %	22,337	22,078	28,918	19,228	10,525	5,960	4,546	4,012	3,676	3,646	6,183	13,005	12,589
70th %	23,896	25,624	31,434	23,495	12,288	6,996	5,409	4,200	4,592	4,306	6,903	14,823	13,843
80th %	26,597	28,641	33,737	30,387	17,114	8,029	7,426	4,805	5,459	5,947	12,493	17,378	14,787
90th %	29,106	33,197	37,084	32,898	21,965	10,915	10,002	6,165	8,393	8,662	17,060	25,393	16,354
Maximum	39,908	65,835	57,449	69,339	43,771	27,877	24,899	9,366	18,986	25,316	24,407	35,031	19,063
Average	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795	11,592

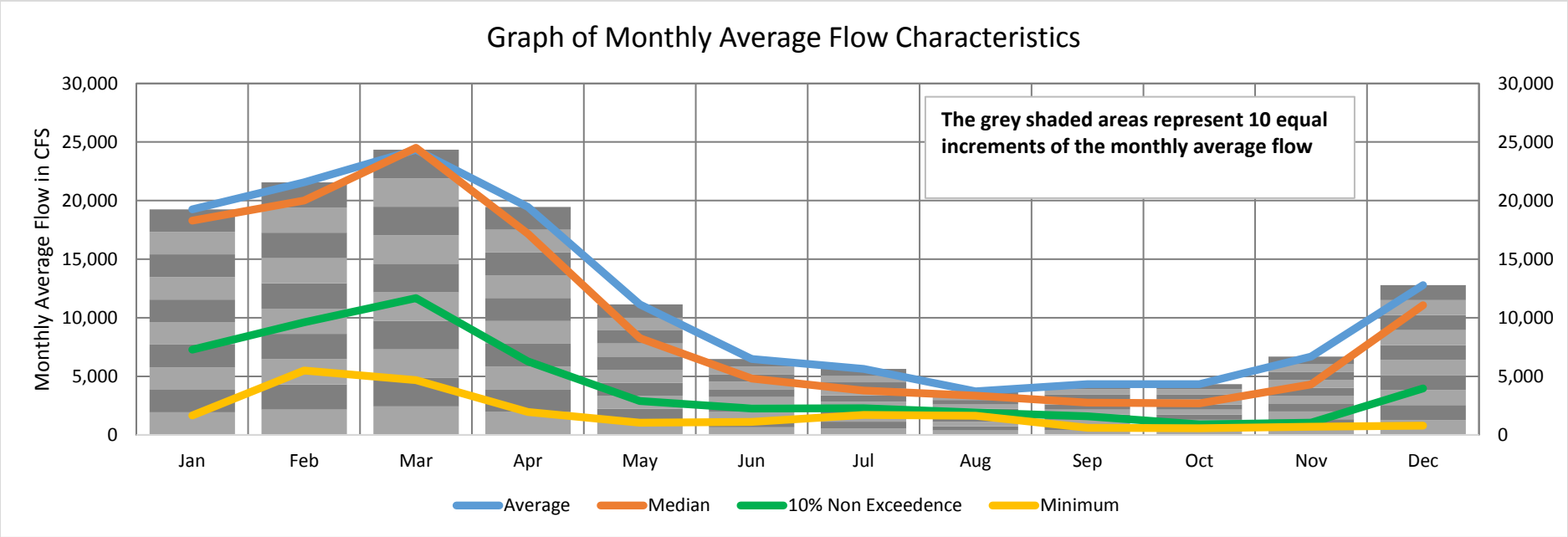
	Flows in CFS
Minimum	569.2
5th %	1,430
10th %	1,921
15th %	2,371
20th %	2,743
30th %	3,943
40th %	5,127
Median	7,361
60th %	10,820
70th %	15,164
80th %	19,848
90th %	27,711
Maximum	69,339
Average	11,647



Q10/Q50	0.26
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.09
Q5/DA	0.23
Q10/DA	0.30
Q15/DA	0.38
Q20/DA	0.44
Q30/DA	0.63
Q40/DA	0.81
Q50/DA	1.17
Q60/DA	1.72
Q70/DA	2.41
Q80/DA	3.15
Q90/DA	4.40
Qmax/DA	11.01

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

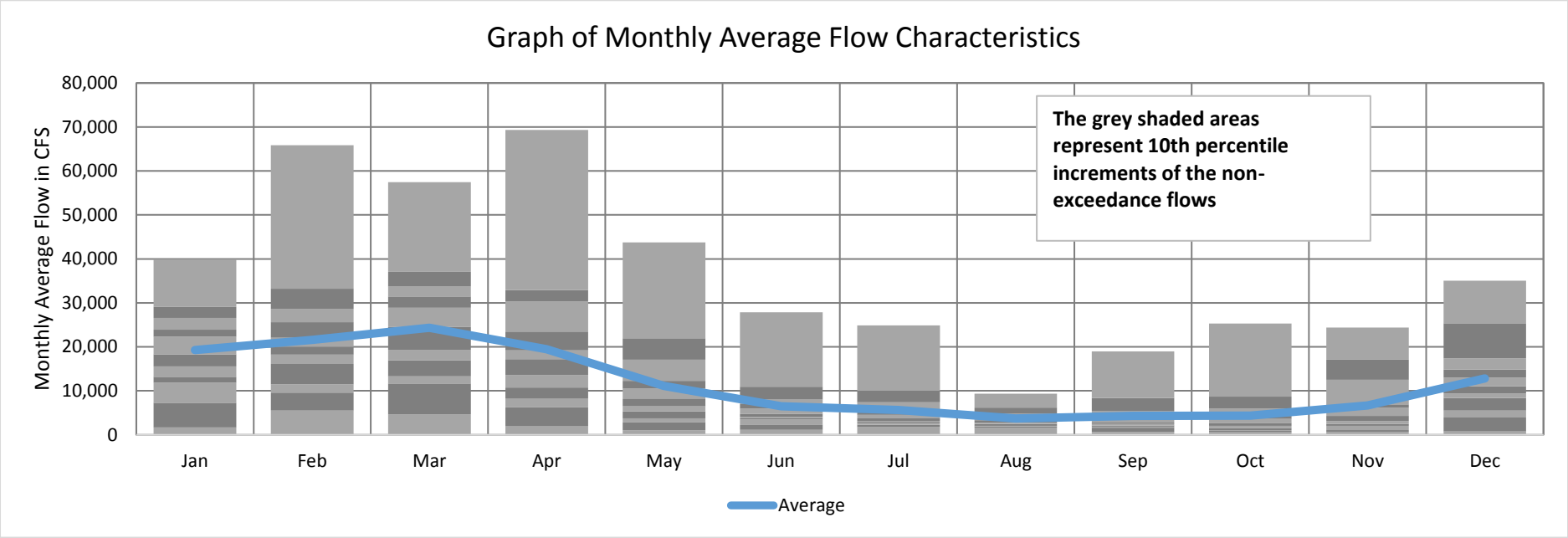
Site #: 03160113 Name: Lower Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795
100%	39,908	65,835	57,449	69,339	43,771	27,877	24,899	9,366	18,986	25,316	24,407	35,031
98%	38,599	44,136	42,518	54,707	38,958	22,911	20,233	8,344	15,610	18,189	20,886	32,419
95%	36,781	36,903	38,188	38,033	27,923	18,601	17,309	7,289	14,039	13,912	18,095	30,951
90%	29,106	33,197	37,084	32,898	21,965	10,915	10,002	6,165	8,393	8,662	17,060	25,393
75%	25,577	26,771	32,891	26,984	13,578	7,287	6,747	4,497	4,794	5,677	7,471	15,412
50%	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084
25%	12,930	13,802	16,310	9,654	4,155	3,624	2,742	2,315	1,956	1,369	2,337	7,125
10%	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956
5%	5,059	8,160	7,635	4,591	1,982	1,696	1,997	1,799	1,389	711	949	3,118
2%	3,171	6,323	5,101	2,561	1,495	1,356	1,822	1,639	1,170	658	759	2,408
0%	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782

Site #: 03160113 Name: Lower Black Warrior River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 6,300 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	19,261	21,568	24,340	19,467	11,144	6,487	5,629	3,719	4,330	4,332	6,692	12,795
100%	39,908	65,835	57,449	69,339	43,771	27,877	24,899	9,366	18,986	25,316	24,407	35,031
98%	38,599	44,136	42,518	54,707	38,958	22,911	20,233	8,344	15,610	18,189	20,886	32,419
95%	36,781	36,903	38,188	38,033	27,923	18,601	17,309	7,289	14,039	13,912	18,095	30,951
90%	29,106	33,197	37,084	32,898	21,965	10,915	10,002	6,165	8,393	8,662	17,060	25,393
75%	25,577	26,771	32,891	26,984	13,578	7,287	6,747	4,497	4,794	5,677	7,471	15,412
50%	18,292	20,002	24,509	17,178	8,267	4,815	3,779	3,350	2,748	2,693	4,321	11,084
25%	12,930	13,802	16,310	9,654	4,155	3,624	2,742	2,315	1,956	1,369	2,337	7,125
10%	7,274	9,616	11,678	6,275	2,885	2,255	2,276	1,910	1,594	897	1,054	3,956
5%	5,059	8,160	7,635	4,591	1,982	1,696	1,997	1,799	1,389	711	949	3,118
2%	3,171	6,323	5,101	2,561	1,495	1,356	1,822	1,639	1,170	658	759	2,408
0%	1,653	5,495	4,678	1,955	1,037	1,117	1,716	1,631	618	569	705	782

Monthly Flows (in CFS) for
03160202 - Sucarnoochee River Subbasin

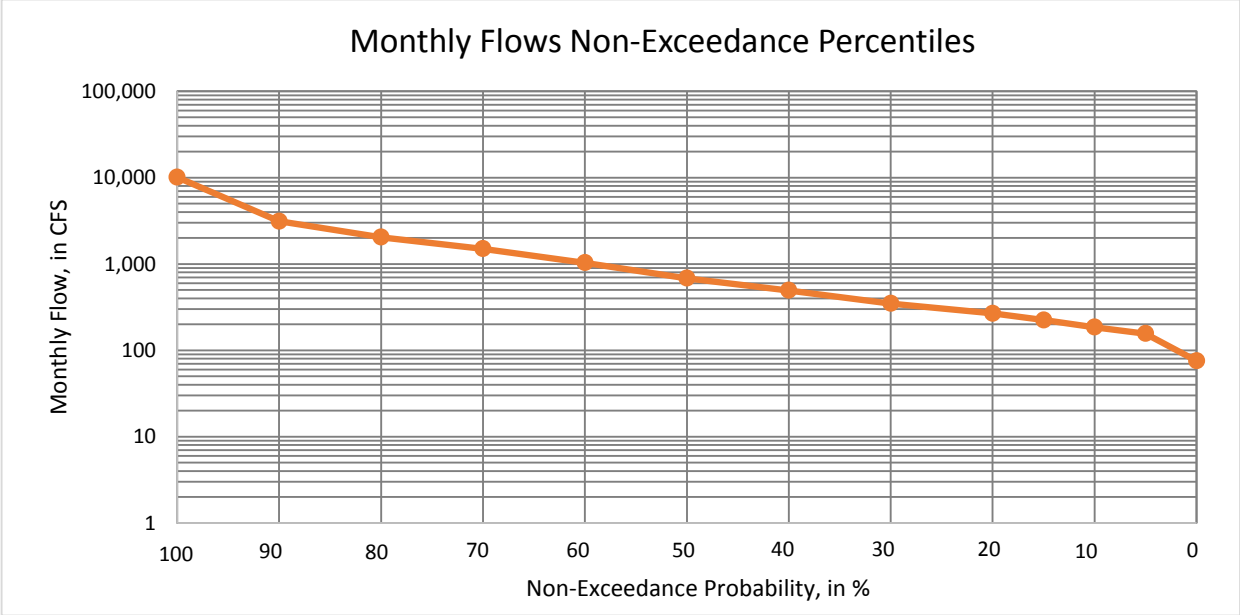
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	3,995	4,090	2,953	3,354	1,972	1,014	504	1,303	403	1,192	485	1,173	1,858
1976	1,557	872	6,356	2,720	939	468	347	244	293	191	278	1,859	1,352
1977	5,617	1,922	6,122	4,345	646	270	332	386	581	1,172	2,324	1,646	2,118
1978	2,407	1,391	1,688	885	2,451	651	304	209	174	152	193	472	916
1979	2,834	3,120	4,735	10,093	932	487	1,169	434	2,034	355	2,380	1,160	2,459
1980	2,961	1,987	6,896	6,527	3,120	794	575	308	228	554	896	590	2,121
1981	460	1,219	1,960	3,504	407	492	181	172	182	288	275	616	806
1982	1,847	2,850	1,781	1,724	453	226	341	513	162	192	403	3,841	1,187
1983	2,606	6,378	6,197	6,748	4,358	1,810	983	316	365	282	726	1,913	2,697
1984	1,626	1,537	2,192	2,463	1,131	267	427	358	186	405	558	1,126	1,020
1985	529	3,887	1,114	720	485	226	248	298	176	976	695	754	822
1986	500	659	1,021	289	740	315	167	142	262	213	1,370	1,482	596
1987	3,648	3,419	3,521	789	605	701	327	222	176	123	211	318	1,161
1988	539	938	651	1,455	241	115	292	134	357	662	1,460	868	638
1989	2,039	1,167	3,160	1,842	2,104	2,183	2,372	400	300	827	1,641	1,870	1,665
1990	5,986	8,648	3,237	1,367	627	412	391	249	156	169	273	459	1,789
1991	737	3,125	2,186	3,748	7,899	1,264	502	345	370	279	679	970	1,835
1992	1,264	2,320	815	1,305	330	633	246	703	236	183	1,426	1,620	912
1993	4,443	1,973	2,163	1,851	1,191	496	363	481	239	261	1,186	731	1,280
1994	2,361	3,672	3,131	1,830	415	488	1,358	338	288	536	349	1,449	1,339
1995	1,087	2,127	4,212	2,674	687	536	247	316	194	620	947	1,672	1,272
1996	2,535	2,688	3,050	1,508	460	525	268	363	303	269	370	638	1,073
1997	1,739	3,200	4,275	2,210	1,653	2,372	1,293	462	225	296	556	1,667	1,653
1998	6,955	2,433	2,578	2,035	439	320	616	331	183	165	246	534	1,402
1999	1,655	3,259	2,386	665	289	218	182	137	132	235	172	310	789
2000	404	295	576	1,534	180	150	96	87	76	84	210	468	345
2001	1,292	1,169	3,422	1,702	293	768	181	208	1,160	1,464	769	3,230	1,308
2002	2,444	1,870	1,601	750	259	205	225	141	891	1,165	954	2,715	1,100
2003	1,215	3,963	2,219	8,648	2,028	1,183	2,039	1,048	436	579	930	917	2,077
2004	1,496	5,370	1,603	611	700	945	1,534	306	378	689	2,575	1,950	1,486
2005	1,163	2,829	1,762	3,903	629	2,548	2,140	563	1,381	376	358	611	1,505
2006	1,293	2,407	2,295	679	1,027	218	173	162	119	410	429	492	800
2007	1,367	846	356	270	158	130	302	110	124	146	155	239	348
2008	318	1,984	1,207	855	885	239	151	678	296	214	173	1,485	700
2009	1,429	596	2,897	1,675	1,104	256	155	200	999	975	936	2,305	1,134
2010	2,203	2,797	3,464	747	725	330	213	185	112	131	228	299	944
2011	681	944	3,123	1,082	337	157	189	217	634	152	190	699	700
2012	1,574	1,870	2,399	368	370	217	627	592	384	271	202	1,944	900
2013	3,341	4,712	2,102	1,799	1,592	665	612	498	276	231	648	1,862	1,509
2014	1,042	2,677	1,818	6,169	1,038	415	305	195	165	174	321	1,359	1,290

Non-Exceedance Percentiles

03160202 - Sucarnoochee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	318	295	356	270	158	115	96	87	76	84	155	239	345
5th %	457	655	647	364	238	149	155	133	118	130	173	310	584
10th %	526	870	1,001	660	286	201	173	140	131	151	193	445	694
15th %	659	943	1,193	714	324	217	181	159	161	163	209	472	776
20th %	981	1,169	1,603	749	363	224	188	183	172	173	225	526	805
30th %	1,249	1,770	1,806	1,023	449	264	246	208	182	207	277	631	915
40th %	1,404	1,980	2,177	1,487	618	326	298	247	227	251	365	822	1,089
Median	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143	1,229
60th %	1,924	2,732	2,920	1,846	904	507	374	341	297	363	685	1,462	1,321
70th %	2,418	3,122	3,140	2,526	1,058	655	525	390	366	542	906	1,652	1,492
80th %	2,859	3,470	3,475	3,553	1,604	824	698	485	409	667	1,000	1,864	1,689
90th %	4,040	4,152	4,873	6,204	2,138	1,318	1,376	600	902	995	1,478	1,986	2,081
Maximum	6,955	8,648	6,896	10,093	7,899	2,548	2,372	1,303	2,034	1,464	2,575	3,841	2,697
Average	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258	1,273

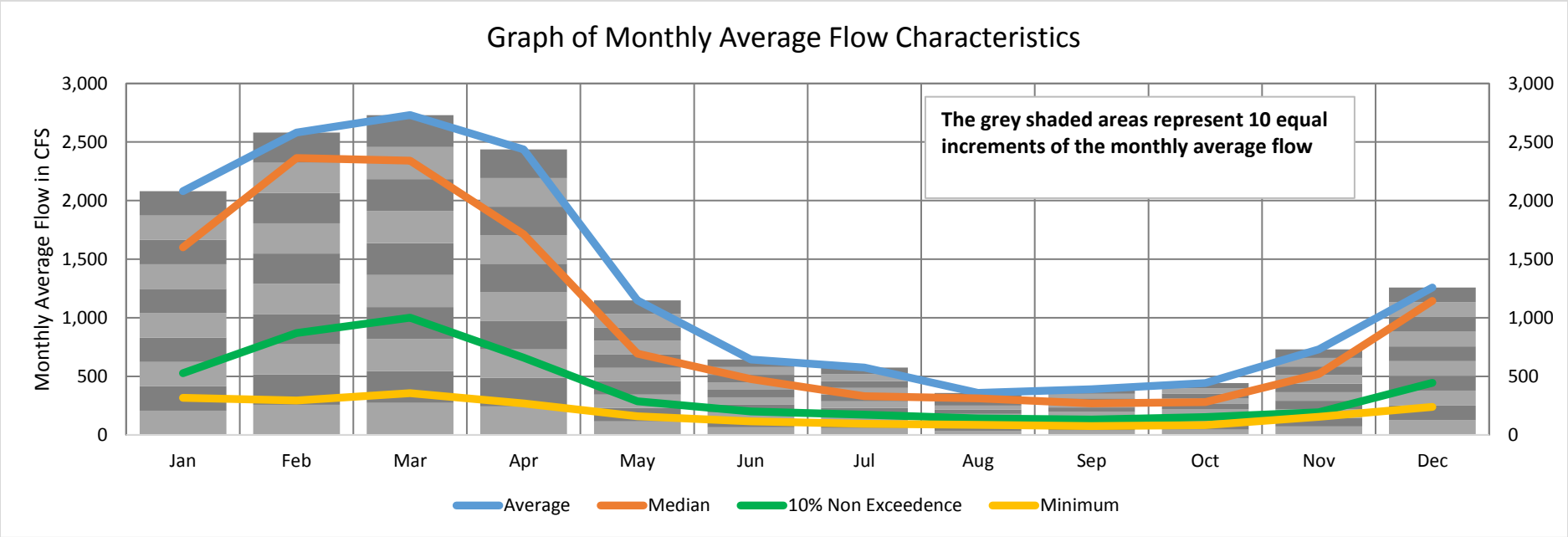
	Flows in CFS
Minimum	75.6
5th %	156
10th %	185
15th %	224
20th %	268
30th %	348
40th %	494
Median	684
60th %	1,031
70th %	1,500
80th %	2,036
90th %	3,120
Maximum	10,093
Average	1,281



Q10/Q50	0.27
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.08
Q5/DA	0.16
Q10/DA	0.19
Q15/DA	0.23
Q20/DA	0.28
Q30/DA	0.36
Q40/DA	0.52
Q50/DA	0.72
Q60/DA	1.08
Q70/DA	1.57
Q80/DA	2.13
Q90/DA	3.26
Qmax/DA	10.56

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

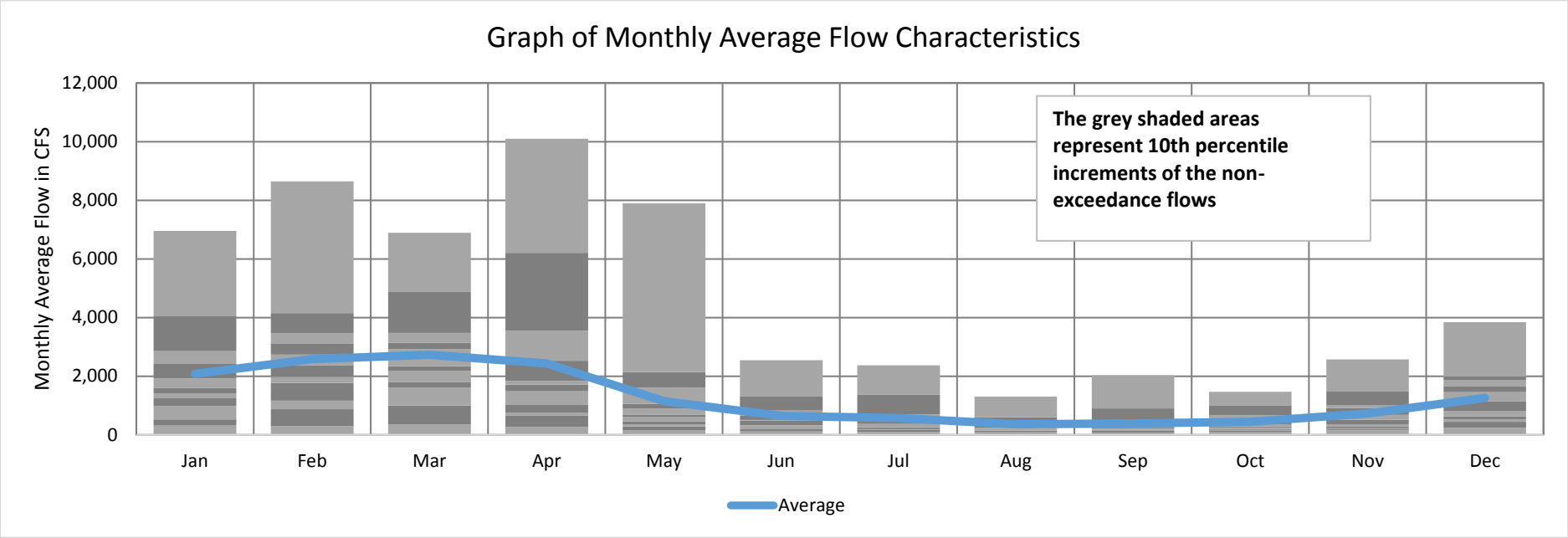
Site #: 03160202 Name: Sucarnoochee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258
100%	6,955	8,648	6,896	10,093	7,899	2,548	2,372	1,303	2,034	1,464	2,575	3,841
98%	6,199	6,877	6,475	8,966	5,137	2,411	2,191	1,104	1,525	1,252	2,423	3,365
95%	5,635	5,420	6,205	6,843	3,182	2,193	2,044	721	1,171	1,173	2,326	2,741
90%	4,040	4,152	4,873	6,204	2,138	1,318	1,376	600	902	995	1,478	1,986
75%	2,553	3,215	3,283	2,878	1,146	717	613	441	380	589	939	1,719
50%	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143
25%	1,144	1,348	1,744	838	413	236	222	199	176	189	266	605
10%	526	870	1,001	660	286	201	173	140	131	151	193	445
5%	457	655	647	364	238	149	155	133	118	130	173	310
2%	385	530	527	284	175	127	139	105	104	115	169	286
0%	318	295	356	270	158	115	96	87	76	84	155	239

Site #: 03160202 Name: Sucarnoochee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 956 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	2,080	2,580	2,731	2,436	1,147	643	574	359	391	441	729	1,258
100%	6,955	8,648	6,896	10,093	7,899	2,548	2,372	1,303	2,034	1,464	2,575	3,841
98%	6,199	6,877	6,475	8,966	5,137	2,411	2,191	1,104	1,525	1,252	2,423	3,365
95%	5,635	5,420	6,205	6,843	3,182	2,193	2,044	721	1,171	1,173	2,326	2,741
90%	4,040	4,152	4,873	6,204	2,138	1,318	1,376	600	902	995	1,478	1,986
75%	2,553	3,215	3,283	2,878	1,146	717	613	441	380	589	939	1,719
50%	1,600	2,364	2,341	1,713	694	477	330	312	269	281	520	1,143
25%	1,144	1,348	1,744	838	413	236	222	199	176	189	266	605
10%	526	870	1,001	660	286	201	173	140	131	151	193	445
5%	457	655	647	364	238	149	155	133	118	130	173	310
2%	385	530	527	284	175	127	139	105	104	115	169	286
0%	318	295	356	270	158	115	96	87	76	84	155	239

Monthly Flows (in CFS) for
03160203 - Lower Tombigbee River Subbasin

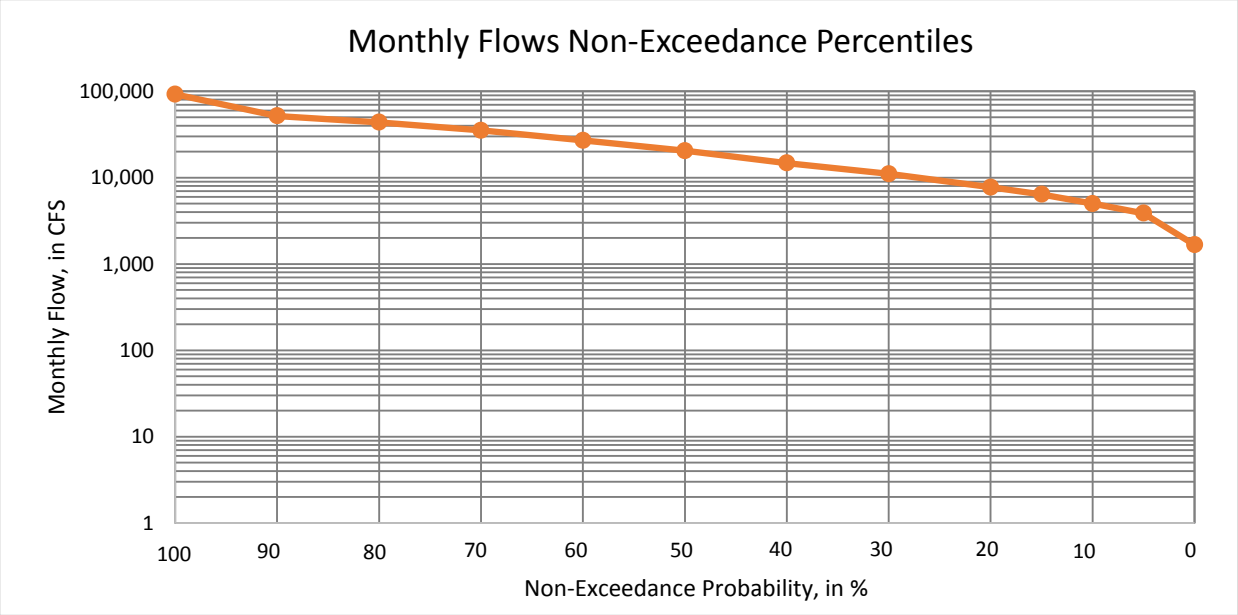
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	65,463	53,351	59,588	52,985	26,945	17,770	13,683	20,944	10,889	44,960	30,763	41,494	36,525
1976	43,896	31,495	41,522	37,525	30,866	13,785	14,818	10,301	16,333	18,861	16,819	35,996	26,027
1977	47,014	29,201	49,044	41,881	9,836	7,065	6,495	7,366	17,679	37,557	29,329	64,559	28,971
1978	45,387	21,312	23,848	12,368	29,161	19,539	16,017	14,800	14,361	11,294	9,615	20,941	19,940
1979	35,819	45,303	46,801	54,833	19,178	12,525	13,959	7,685	20,729	23,188	42,848	56,297	31,472
1980	44,832	37,933	73,084	90,911	54,572	15,556	8,866	5,804	5,522	11,868	16,723	18,266	31,944
1981	9,097	28,035	28,749	44,098	8,974	11,971	5,290	4,725	5,041	3,421	2,362	10,715	13,395
1982	45,967	41,058	31,595	49,921	21,716	13,980	11,925	13,734	4,799	4,589	8,898	61,744	25,772
1983	50,736	79,295	74,348	77,429	65,273	41,919	14,167	5,515	6,227	4,441	17,202	65,236	41,575
1984	45,836	32,890	39,910	45,996	53,934	9,146	7,743	8,786	3,448	14,471	15,030	25,185	25,209
1985	17,246	58,688	25,733	21,225	29,696	10,335	12,344	14,276	6,534	15,433	15,281	20,457	20,370
1986	13,169	20,444	22,570	6,894	10,500	17,314	5,172	3,970	4,447	6,928	30,912	40,156	15,167
1987	51,080	41,706	60,412	18,341	11,462	13,460	9,365	4,913	4,218	1,666	4,135	9,137	19,072
1988	22,058	27,197	17,179	26,752	5,344	3,060	6,537	3,733	11,074	13,197	23,890	21,008	14,974
1989	62,849	45,072	59,225	41,541	27,136	39,840	45,816	9,925	8,993	17,502	27,078	28,077	34,389
1990	65,762	86,887	57,046	25,793	23,450	16,349	7,732	4,604	3,491	2,723	4,516	39,912	27,878
1991	45,028	55,646	64,885	72,317	92,128	47,851	11,009	7,292	7,613	4,548	10,178	37,426	37,887
1992	25,265	33,000	28,729	20,062	5,551	12,354	9,082	13,939	14,161	5,522	29,915	33,471	19,143
1993	58,558	37,410	34,331	36,222	30,420	9,502	7,791	9,799	6,314	4,305	11,479	17,083	21,874
1994	35,612	66,500	46,368	54,115	11,726	17,221	26,268	10,738	8,137	13,822	14,429	34,736	28,045
1995	34,460	41,843	65,908	46,957	23,846	10,901	7,354	9,617	3,894	14,620	25,770	35,242	26,629
1996	42,365	47,788	43,419	37,342	13,307	11,038	12,749	12,238	11,573	8,237	18,843	35,246	24,374
1997	43,650	44,957	41,324	25,219	36,259	54,515	33,552	13,863	7,291	12,306	15,701	27,089	29,561
1998	57,878	42,507	42,949	32,529	16,453	10,067	14,646	12,190	7,289	5,852	6,389	23,639	22,631
1999	51,423	56,356	46,247	27,289	17,673	14,965	15,677	2,822	2,712	3,965	3,468	6,392	20,551
2000	15,935	12,391	33,058	58,498	8,434	6,427	3,741	3,267	2,569	1,777	11,341	16,672	14,470
2001	35,908	51,063	57,229	43,782	10,666	25,560	8,790	9,086	25,602	25,681	12,722	57,997	30,208
2002	45,363	47,579	39,029	31,972	32,402	7,483	11,444	5,873	15,319	27,969	37,631	44,491	28,789
2003	29,222	54,508	57,611	42,409	48,820	31,829	26,198	23,768	16,262	10,148	19,427	24,740	31,944
2004	32,203	65,728	46,000	19,229	13,999	28,311	29,452	11,463	14,380	16,869	37,991	55,241	30,684
2005	32,150	41,734	33,882	45,476	15,339	39,823	31,477	13,596	24,566	7,254	6,505	23,168	26,089
2006	35,374	60,287	51,481	24,398	26,012	5,486	3,863	3,810	4,372	10,706	22,506	15,500	21,754
2007	49,905	25,529	15,616	9,279	3,270	3,109	5,530	2,590	2,645	5,183	4,817	6,777	11,138
2008	11,425	54,629	35,143	26,382	28,613	10,316	4,392	10,306	10,252	4,497	4,407	44,089	20,172
2009	54,583	19,549	61,672	46,012	48,082	20,787	7,424	10,710	29,226	48,096	34,151	39,319	35,121
2010	39,853	43,230	39,892	26,772	40,833	15,694	7,752	5,002	2,393	3,463	5,056	10,411	19,921
2011	25,683	22,554	47,464	51,366	25,167	6,028	6,827	5,117	21,899	3,262	6,314	30,215	20,974
2012	42,472	47,290	48,933	19,111	9,509	5,289	7,838	9,901	15,087	12,338	5,768	30,294	21,045
2013	65,702	58,246	47,660	46,498	39,456	16,832	23,315	6,483	4,694	3,719	36,062	26,760	31,122
2014	46,827	48,087	36,010	51,527	32,499	22,886	10,169	4,514	4,076	11,897	10,507	25,019	25,182

Non-Exceedance Percentiles

03160203 - Lower Tombigbee River Subbasin

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392	11,138
5th %	13,082	20,399	22,301	12,213	5,540	5,180	4,365	3,245	2,641	2,675	4,101	9,019	14,416
10th %	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685	15,147
15th %	24,784	26,946	28,746	19,937	9,787	6,969	6,350	4,432	3,834	3,680	5,020	16,496	19,132
20th %	28,514	28,968	32,765	23,763	10,633	8,814	6,769	4,701	4,190	4,237	6,205	18,029	19,936
30th %	35,099	36,087	35,750	26,641	13,791	10,329	7,740	5,395	4,767	4,577	9,400	22,520	20,847
40th %	38,275	41,723	40,758	32,306	18,576	12,201	8,409	6,969	6,279	6,497	11,424	25,118	22,328
Median	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146	25,491
60th %	45,373	47,405	47,066	43,908	27,727	15,956	12,093	9,910	10,507	12,061	16,972	34,939	27,129
70th %	46,883	51,749	49,775	46,158	30,554	17,451	14,021	10,718	14,221	14,017	22,921	37,994	29,148
80th %	51,149	55,788	57,934	51,398	36,898	23,420	15,745	12,510	15,507	16,996	29,447	42,013	31,192
90th %	58,987	60,831	61,994	55,200	49,331	39,825	26,586	13,972	20,846	25,910	34,342	56,467	34,462
Maximum	65,762	86,887	74,348	90,911	92,128	54,515	45,816	23,768	29,226	48,096	42,848	65,236	41,575
Average	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505	25,300

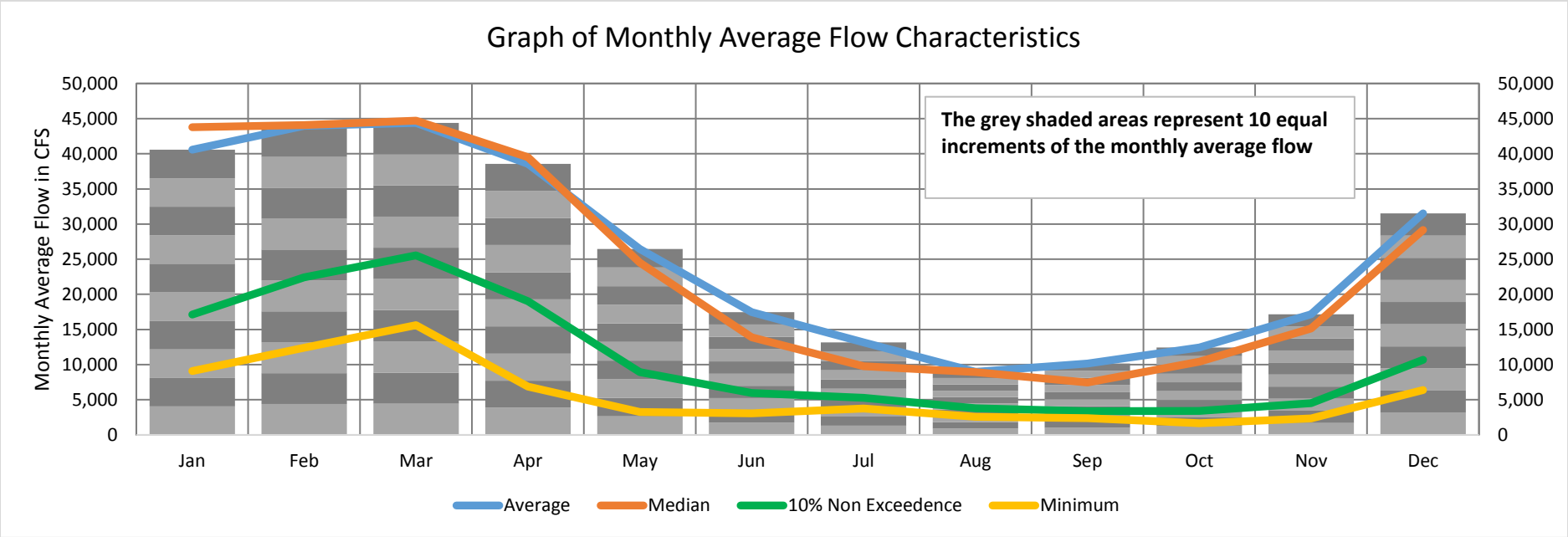
	Flows in CFS
Minimum	1,666.1
5th %	3,861
10th %	4,993
15th %	6,392
20th %	7,750
30th %	11,063
40th %	14,739
Median	20,450
60th %	26,998
70th %	35,243
80th %	43,676
90th %	51,673
Maximum	92,128
Average	25,402



Q10/Q50	0.24
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.08
Q5/DA	0.19
Q10/DA	0.25
Q15/DA	0.32
Q20/DA	0.39
Q30/DA	0.55
Q40/DA	0.73
Q50/DA	1.02
Q60/DA	1.35
Q70/DA	1.76
Q80/DA	2.18
Q90/DA	2.58
Qmax/DA	4.59

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

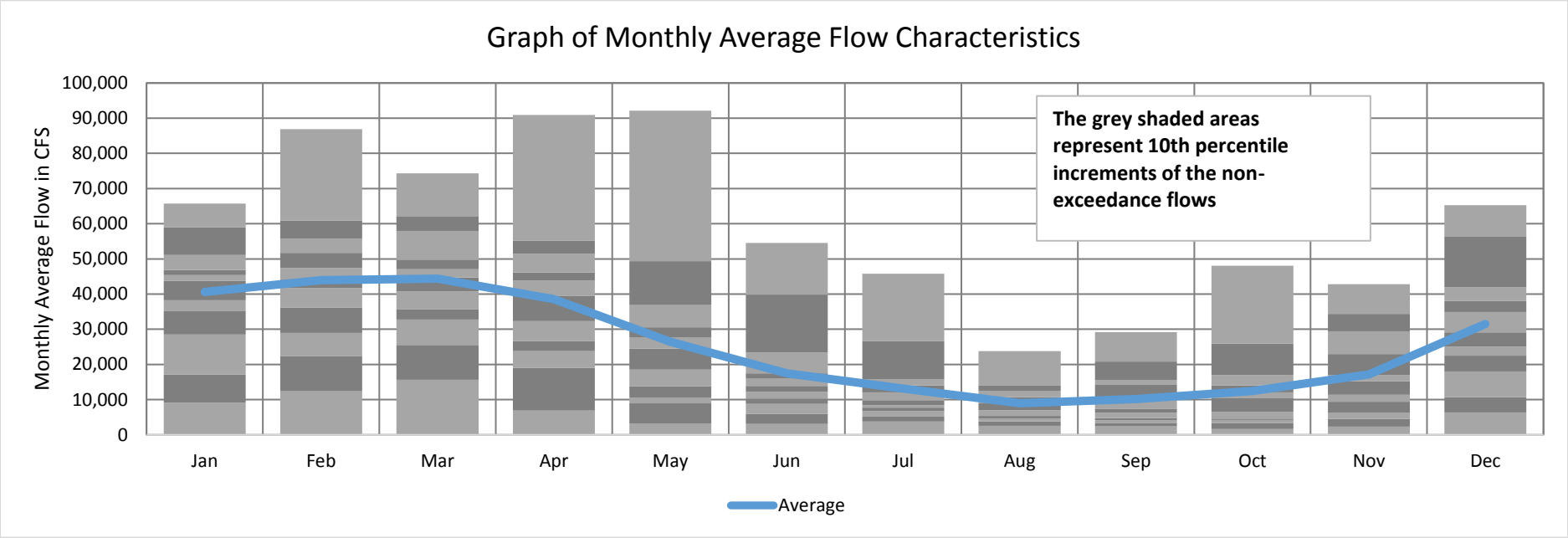
Site #: 03160203 Name: Lower Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505
100%	65,762	86,887	74,348	90,911	92,128	54,515	45,816	23,768	29,226	48,096	42,848	65,236
98%	65,715	80,965	73,363	80,395	71,181	49,317	36,250	21,565	26,400	45,650	39,060	64,708
95%	65,475	67,139	66,267	72,573	55,107	42,216	31,581	15,108	24,618	37,927	37,649	61,885
90%	58,987	60,831	61,994	55,200	49,331	39,825	26,586	13,972	20,846	25,910	34,342	56,467
75%	50,113	54,538	57,092	47,698	32,426	19,851	14,689	11,645	14,557	14,823	26,097	39,973
50%	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146
25%	32,190	32,541	34,219	25,650	11,660	9,926	7,407	4,979	4,428	4,483	6,476	20,820
10%	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685
5%	13,082	20,399	22,301	12,213	5,540	5,180	4,365	3,245	2,641	2,675	4,101	9,019
2%	10,913	17,974	16,835	8,754	4,887	3,098	3,836	2,771	2,530	1,752	3,225	6,693
0%	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392

Site #: 03160203 Name: Lower Tombigbee River Subbasin
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 20,057 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	40,576	43,957	44,387	38,581	26,463	17,447	13,157	8,977	10,153	12,453	17,169	31,505
100%	65,762	86,887	74,348	90,911	92,128	54,515	45,816	23,768	29,226	48,096	42,848	65,236
98%	65,715	80,965	73,363	80,395	71,181	49,317	36,250	21,565	26,400	45,650	39,060	64,708
95%	65,475	67,139	66,267	72,573	55,107	42,216	31,581	15,108	24,618	37,927	37,649	61,885
90%	58,987	60,831	61,994	55,200	49,331	39,825	26,586	13,972	20,846	25,910	34,342	56,467
75%	50,113	54,538	57,092	47,698	32,426	19,851	14,689	11,645	14,557	14,823	26,097	39,973
50%	43,773	44,093	44,709	39,533	24,506	13,883	9,767	8,936	7,452	10,427	15,155	29,146
25%	32,190	32,541	34,219	25,650	11,660	9,926	7,407	4,979	4,428	4,483	6,476	20,820
10%	17,115	22,430	25,545	19,034	8,920	5,974	5,278	3,802	3,374	3,405	4,505	10,685
5%	13,082	20,399	22,301	12,213	5,540	5,180	4,365	3,245	2,641	2,675	4,101	9,019
2%	10,913	17,974	16,835	8,754	4,887	3,098	3,836	2,771	2,530	1,752	3,225	6,693
0%	9,097	12,391	15,616	6,894	3,270	3,060	3,741	2,590	2,393	1,666	2,362	6,392

Monthly Flows (in CFS) for

03170008 - Escatawpa River Subbasin in Alabama

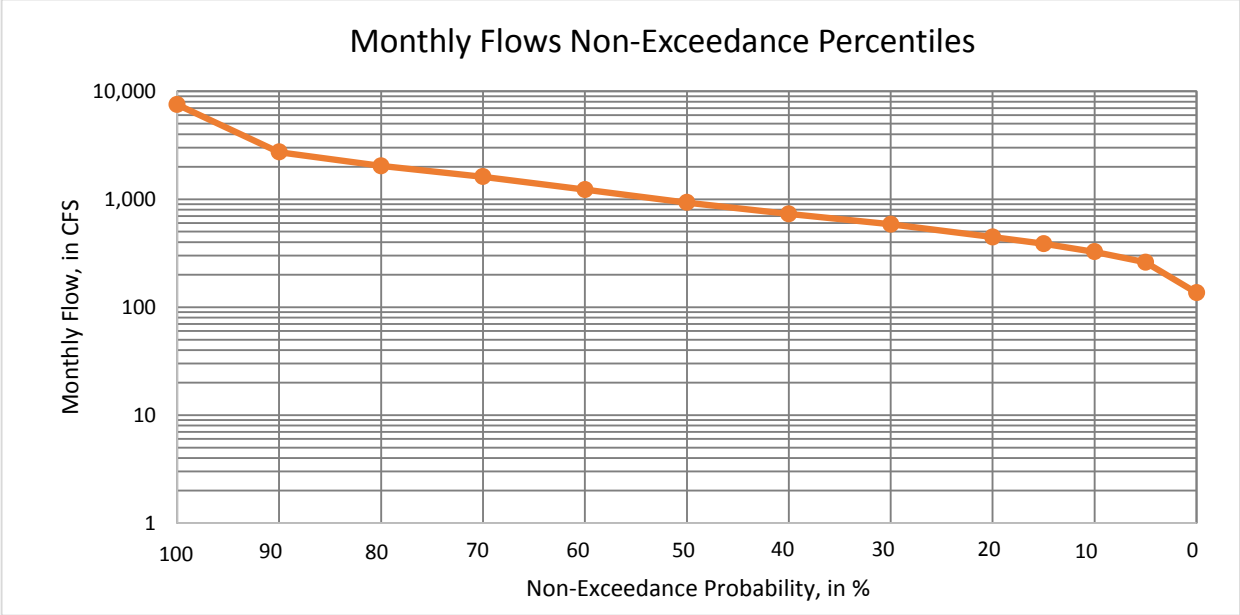
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	2,349	2,521	2,561	3,297	3,065	1,515	1,050	3,152	1,739	2,579	1,581	1,317	2,227
1976	1,297	1,422	1,174	1,212	1,245	935	561	348	371	344	923	1,787	966
1977	1,972	1,243	3,169	1,817	1,058	374	413	809	1,649	549	1,883	1,422	1,363
1978	2,933	1,740	1,650	1,288	2,594	2,778	666	727	391	271	302	645	1,330
1979	2,138	3,710	4,815	3,293	753	843	1,692	771	2,406	552	2,844	1,853	2,124
1980	1,947	1,281	3,891	6,555	4,811	1,110	718	536	456	1,022	740	694	1,983
1981	497	3,755	1,189	973	1,009	637	391	314	352	214	251	503	820
1982	1,273	3,351	920	952	626	524	926	1,126	448	332	664	2,824	1,151
1983	1,653	4,139	3,199	6,605	1,331	1,283	819	748	723	422	895	2,722	2,024
1984	2,433	2,146	2,491	1,403	1,736	536	516	1,022	376	475	493	962	1,214
1985	1,178	2,033	1,565	687	552	367	1,169	826	2,293	2,133	2,444	2,032	1,435
1986	1,812	2,063	2,117	906	621	693	355	383	386	341	1,180	2,001	1,066
1987	2,668	2,357	2,830	971	899	801	479	739	313	221	395	561	1,098
1988	1,050	1,889	2,039	1,397	316	262	521	551	2,530	1,044	1,031	811	1,112
1989	966	547	1,535	1,506	1,492	1,771	1,813	486	310	370	1,621	1,861	1,194
1990	3,738	4,652	4,010	1,566	2,509	1,101	446	418	294	247	394	538	1,644
1991	2,761	2,583	2,678	1,898	7,525	1,376	1,069	599	587	318	666	803	1,908
1992	3,052	3,497	1,564	983	373	430	429	458	392	243	2,854	2,410	1,376
1993	3,700	1,686	2,466	1,996	2,395	1,301	1,007	674	573	446	888	1,143	1,525
1994	1,393	1,688	1,551	1,679	718	768	1,945	445	335	428	424	1,171	1,043
1995	1,778	2,638	2,471	2,032	1,525	780	558	869	307	712	969	2,479	1,421
1996	2,395	2,126	2,562	2,632	750	600	533	704	421	309	372	831	1,180
1997	1,791	2,149	1,859	1,433	1,165	1,922	1,935	793	338	579	1,148	1,830	1,408
1998	4,974	2,433	3,286	1,241	587	464	633	702	3,011	3,851	867	650	1,893
1999	1,341	1,945	2,365	627	354	898	886	278	305	697	261	506	867
2000	502	408	964	644	192	180	152	195	194	136	659	574	400
2001	914	757	3,990	561	219	1,146	415	626	592	379	304	592	878
2002	728	731	1,709	672	217	229	387	303	1,713	2,255	2,189	2,530	1,141
2003	1,674	1,612	2,810	1,401	1,681	2,989	3,751	1,607	1,280	551	644	1,000	1,753
2004	1,123	2,583	1,108	735	1,417	1,603	1,479	692	968	541	1,451	1,490	1,256
2005	929	1,773	1,104	3,452	1,014	1,463	3,485	1,566	1,509	562	499	791	1,508
2006	853	1,255	923	411	456	225	248	340	253	534	1,440	1,802	726
2007	2,632	1,145	606	710	242	511	778	260	270	682	512	839	765
2008	1,549	1,974	1,195	1,336	456	259	302	710	1,617	321	279	772	889
2009	915	613	3,670	3,222	2,749	555	263	417	930	768	1,114	5,396	1,730
2010	2,722	3,761	1,707	621	1,740	599	520	502	258	238	438	392	1,110
2011	596	971	1,665	657	187	199	722	344	827	250	262	349	584
2012	661	2,313	2,569	871	783	986	922	2,428	3,030	749	367	922	1,376
2013	1,394	3,112	1,191	1,735	2,217	482	681	1,044	575	352	427	1,490	1,214
2014	1,116	2,496	2,017	2,852	3,632	1,460	816	494	417	326	302	706	1,379

Non-Exceedance Percentiles

03170008 - Escatawpa River Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	497	408	606	411	187	180	152	195	194	136	251	349	400
5th %	592	610	922	618	216	223	262	277	258	220	262	498	718
10th %	721	754	1,090	642	240	256	350	313	292	242	299	535	814
15th %	905	1,119	1,164	670	348	351	390	343	307	250	304	572	876
20th %	927	1,252	1,191	706	439	419	415	376	312	302	371	634	950
30th %	1,121	1,664	1,560	938	611	520	505	454	365	330	426	752	1,107
40th %	1,324	1,843	1,690	1,120	752	600	548	522	391	363	507	823	1,169
Median	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981	1,235
60th %	1,799	2,214	2,468	1,462	1,279	913	793	706	589	545	891	1,359	1,376
70th %	2,201	2,503	2,564	1,760	1,572	1,121	923	755	942	567	1,056	1,792	1,425
80th %	2,639	2,733	2,898	2,152	2,252	1,393	1,089	835	1,624	719	1,443	1,889	1,661
90th %	2,945	3,715	3,692	3,293	2,781	1,620	1,825	1,170	2,304	1,153	1,913	2,484	1,916
Maximum	4,974	4,652	4,815	6,605	7,525	2,989	3,751	3,152	3,030	3,851	2,854	5,396	2,227
Average	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350	1,302

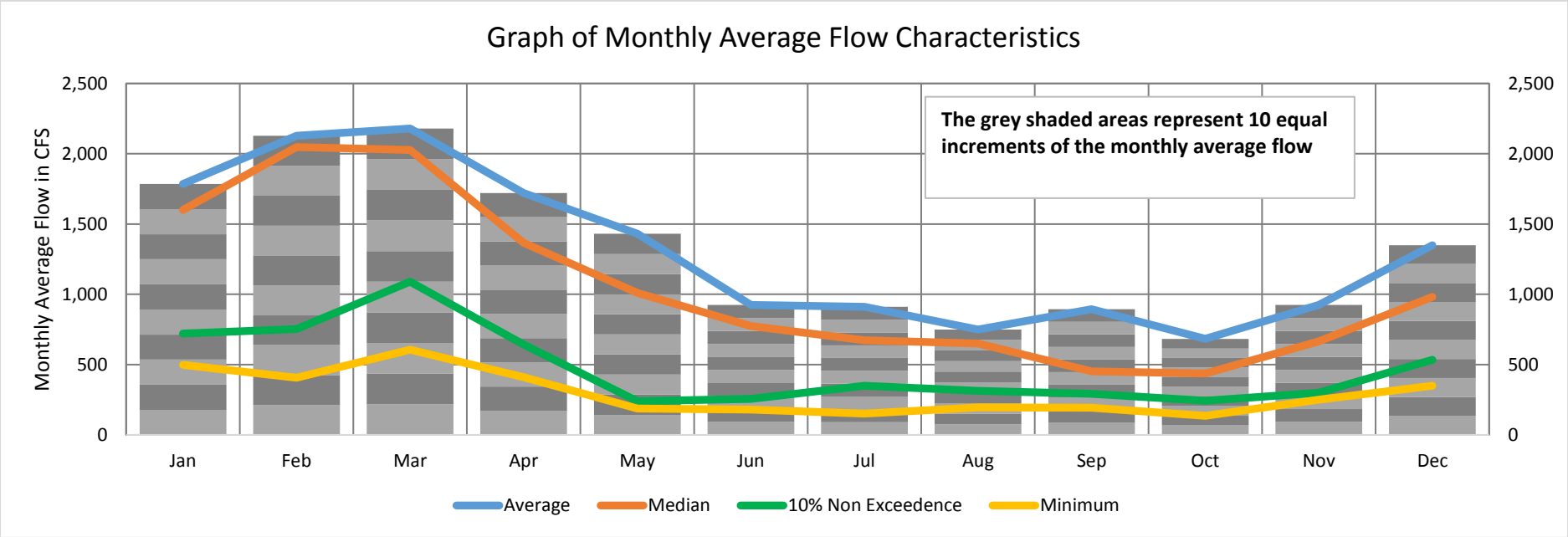
	Flows in CFS
Minimum	136.0
5th %	260
10th %	326
15th %	386
20th %	446
30th %	585
40th %	729
Median	930
60th %	1,224
70th %	1,613
80th %	2,033
90th %	2,725
Maximum	7,525
Average	1,307



Q10/Q50	0.35
Q10/Q90	0.12
	CFSM*
Qmin/DA	0.18
Q5/DA	0.34
Q10/DA	0.42
Q15/DA	0.50
Q20/DA	0.58
Q30/DA	0.76
Q40/DA	0.95
Q50/DA	1.21
Q60/DA	1.60
Q70/DA	2.10
Q80/DA	2.65
Q90/DA	3.55
Qmax/DA	9.81

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

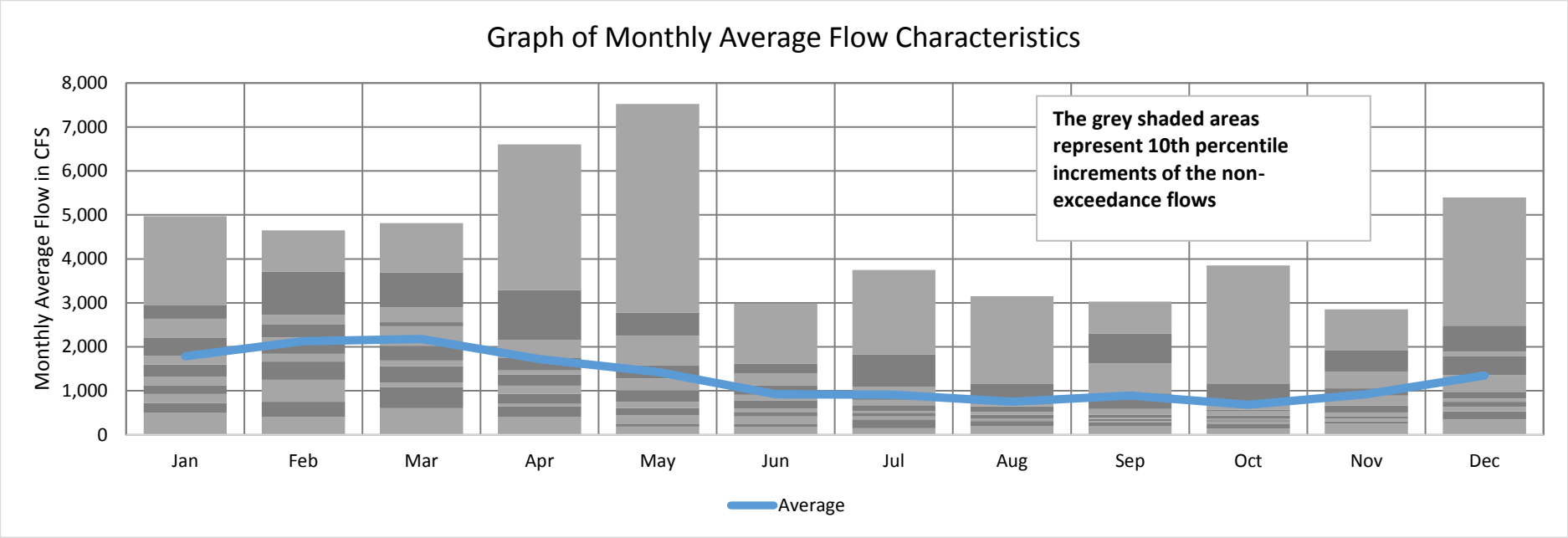
Site #: 03170008 Name: Escatawpa River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350
100%	4,974	4,652	4,815	6,605	7,525	2,989	3,751	3,152	3,030	3,851	2,854	5,396
98%	4,010	4,252	4,187	6,566	5,408	2,824	3,543	2,587	3,015	2,859	2,846	3,390
95%	3,701	3,780	3,991	3,607	3,691	1,964	2,022	1,648	2,554	2,271	2,464	2,727
90%	2,945	3,715	3,692	3,293	2,781	1,620	1,825	1,170	2,304	1,153	1,913	2,484
75%	2,404	2,583	2,711	1,922	1,737	1,288	1,018	797	1,338	685	1,156	1,836
50%	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981
25%	1,029	1,387	1,450	837	528	477	442	418	337	320	395	683
10%	721	754	1,090	642	240	256	350	313	292	242	299	535
5%	592	610	922	618	216	223	262	277	258	220	262	498
2%	501	517	851	528	191	195	227	246	240	197	259	383
0%	497	408	606	411	187	180	152	195	194	136	251	349

Site #: 03170008 Name: Escatawpa River Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 767 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,785	2,127	2,180	1,721	1,430	924	911	750	894	684	924	1,350
100%	4,974	4,652	4,815	6,605	7,525	2,989	3,751	3,152	3,030	3,851	2,854	5,396
98%	4,010	4,252	4,187	6,566	5,408	2,824	3,543	2,587	3,015	2,859	2,846	3,390
95%	3,701	3,780	3,991	3,607	3,691	1,964	2,022	1,648	2,554	2,271	2,464	2,727
90%	2,945	3,715	3,692	3,293	2,781	1,620	1,825	1,170	2,304	1,153	1,913	2,484
75%	2,404	2,583	2,711	1,922	1,737	1,288	1,018	797	1,338	685	1,156	1,836
50%	1,601	2,048	2,028	1,366	1,011	774	674	650	452	437	665	981
25%	1,029	1,387	1,450	837	528	477	442	418	337	320	395	683
10%	721	754	1,090	642	240	256	350	313	292	242	299	535
5%	592	610	922	618	216	223	262	277	258	220	262	498
2%	501	517	851	528	191	195	227	246	240	197	259	383
0%	497	408	606	411	187	180	152	195	194	136	251	349

Monthly Flows (in CFS) for

03571850 - Tennessee River at South Pittsburg, Tenn.

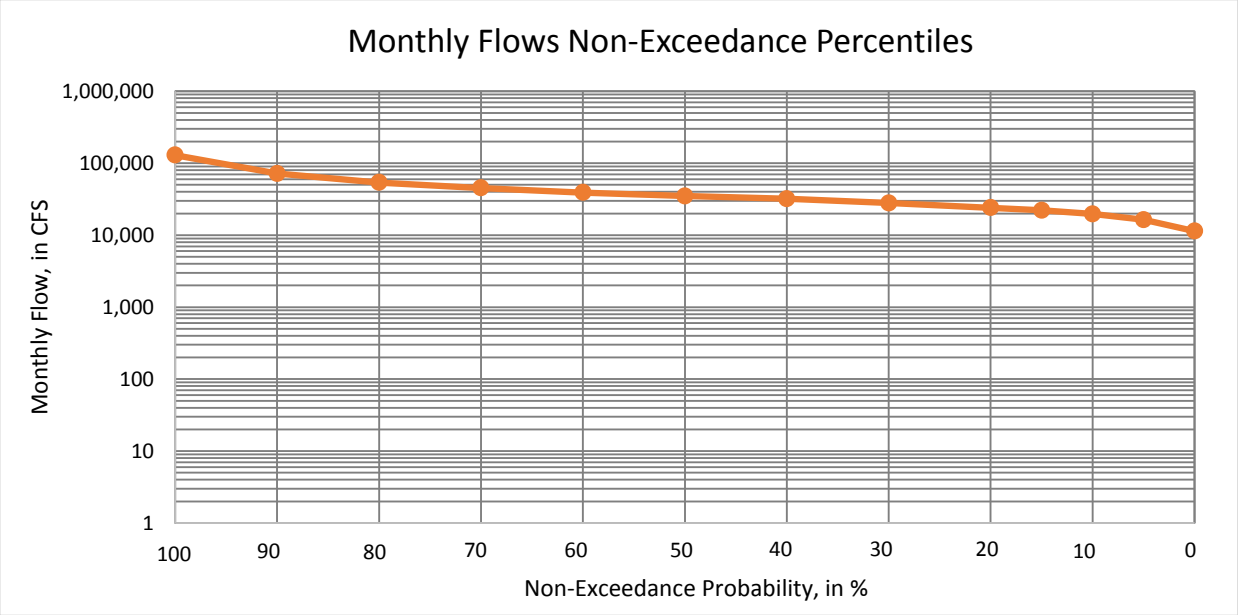
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	73,890	90,860	103,600	70,090	40,020	42,470	42,170	37,470	33,540	37,230	43,990	45,460	54,854
1976	57,690	45,320	37,560	25,820	27,620	36,480	41,330	38,330	30,850	35,640	36,420	49,390	38,549
1977	51,900	30,660	45,510	74,990	36,310	36,500	34,900	32,810	39,960	43,160	76,770	85,960	49,184
1978	79,290	55,940	47,280	26,870	33,140	32,850	32,350	39,750	34,560	21,150	21,250	40,270	38,691
1979	84,310	55,820	91,630	46,380	41,270	45,080	53,720	45,210	45,790	45,190	69,350	54,260	56,560
1980	64,490	39,280	71,590	52,400	38,600	34,220	36,150	30,380	27,780	22,700	25,320	23,420	38,900
1981	21,230	32,900	19,100	19,930	16,700	32,370	29,670	29,450	25,350	23,480	20,530	32,110	25,180
1982	79,600	90,690	58,780	19,760	18,980	22,190	30,240	38,940	32,990	30,820	37,860	80,670	44,938
1983	51,120	57,050	28,940	49,840	55,720	43,410	37,230	40,870	26,030	20,120	33,220	64,150	42,233
1984	45,470	45,670	50,520	34,220	102,200	34,860	42,340	45,880	40,110	27,660	32,640	33,930	44,717
1985	34,480	53,460	26,670	17,610	18,810	22,320	26,580	30,580	25,810	25,150	24,950	33,360	28,170
1986	22,160	33,670	26,170	13,060	14,250	16,410	20,890	18,780	21,930	24,690	37,990	53,370	25,244
1987	46,110	53,300	53,270	30,340	29,050	26,400	32,490	31,590	24,050	25,958	21,957	19,123	32,713
1988	34,082	29,937	18,670	12,421	11,387	15,705	17,327	18,743	17,135	17,844	26,739	25,343	20,393
1989	54,627	52,478	54,245	23,582	39,466	78,807	60,003	43,507	49,872	72,497	68,466	60,556	54,858
1990	76,201	129,278	83,252	21,037	37,501	32,791	32,736	41,762	30,995	31,425	34,310	63,211	50,801
1991	63,315	74,273	72,363	40,414	35,033	33,796	34,984	39,300	36,244	27,733	35,158	95,062	48,903
1992	59,358	32,007	44,545	15,721	21,936	36,986	37,553	32,543	36,486	37,676	54,265	79,915	40,875
1993	78,120	41,560	71,780	42,413	25,331	27,902	25,239	33,114	29,959	22,323	26,300	50,289	39,597
1994	67,661	108,568	93,840	122,076	27,645	35,167	42,386	46,498	44,890	46,711	42,268	41,874	59,553
1995	60,561	63,974	55,995	15,147	18,815	22,863	25,941	35,122	38,005	47,856	55,075	44,583	40,216
1996	77,299	88,659	52,540	25,872	33,693	43,923	29,687	40,455	38,277	42,498	52,119	74,887	49,784
1997	72,141	54,634	89,492	28,671	40,704	57,771	39,228	33,439	32,233	35,122	35,311	25,367	45,341
1998	54,774	75,331	52,437	80,249	56,642	52,095	30,857	35,195	30,010	25,711	25,305	34,151	45,813
1999	57,084	38,445	41,460	11,657	25,342	19,874	45,214	31,617	24,925	24,825	27,877	25,928	31,239
2000	25,281	22,858	23,534	36,394	15,969	17,894	22,390	35,040	24,623	29,974	26,578	21,764	25,198
2001	25,508	43,656	28,666	14,117	13,616	18,627	20,085	36,404	29,678	29,327	28,054	34,043	26,723
2002	57,211	30,680	41,463	23,598	26,158	19,781	22,464	27,626	27,261	29,228	51,403	73,880	35,998
2003	40,990	92,829	54,825	39,031	99,778	47,926	53,451	49,148	43,119	39,029	50,536	64,616	56,094
2004	52,550	58,124	39,719	13,888	13,954	35,571	32,439	32,747	67,558	43,438	62,472	109,420	46,752
2005	54,367	47,849	39,175	33,705	25,920	32,175	40,344	33,709	36,811	30,393	27,140	32,160	36,090
2006	43,800	35,640	21,369	23,228	20,320	20,487	22,168	28,372	29,621	32,232	54,373	28,102	29,908
2007	46,451	22,100	19,522	14,143	13,919	22,470	20,205	29,034	14,486	16,472	15,261	14,140	20,717
2008	22,424	32,943	31,870	17,695	12,968	17,902	18,671	29,942	15,960	16,698	14,319	42,884	22,843
2009	60,434	29,263	30,225	22,988	49,484	33,249	23,593	33,327	40,311	53,443	72,601	99,569	45,880
2010	73,323	92,646	32,813	16,030	27,151	22,412	18,901	30,866	25,814	23,842	31,547	52,443	37,007
2011	38,931	31,339	91,373	64,133	28,339	27,553	26,172	29,055	34,476	29,359	51,223	87,921	45,109
2012	70,672	58,801	50,723	14,168	15,147	20,920	22,367	33,495	29,871	32,756	35,927	35,316	34,925
2013	97,742	102,853	54,891	45,168	78,290	55,419	85,320	37,127	39,025	37,873	38,523	73,352	61,990
2014	68,983	59,422	34,015	22,337	18,012	21,998	23,621	30,836	30,576	44,014	45,957	42,052	36,705

Non-Exceedance Percentiles

03571850 - Tennessee River at South Pittsburg, Tenn.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	21,230	22,100	18,670	11,657	11,387	15,705	17,327	18,743	14,486	16,472	14,319	14,140	20,393
5th %	22,411	28,942	19,501	13,028	13,583	17,820	18,890	27,184	17,076	17,787	20,267	21,632	22,737
10th %	25,485	30,588	23,318	14,094	13,950	18,555	20,193	28,968	23,838	21,047	21,886	25,150	25,196
15th %	34,420	31,240	26,595	14,164	15,012	19,860	21,976	29,391	24,880	22,643	25,252	25,844	26,501
20th %	40,578	32,721	28,885	15,606	16,554	20,833	22,386	30,292	25,718	23,769	26,104	31,308	29,560
30th %	46,349	37,604	33,654	19,141	18,931	22,384	24,753	31,373	27,624	25,542	27,656	34,009	35,676
40th %	53,640	44,654	40,764	22,728	25,337	27,092	28,434	32,785	29,924	28,630	32,988	41,232	37,932
Median	57,148	52,889	46,395	24,709	27,385	32,580	31,603	33,467	30,923	30,183	35,619	45,021	39,907
60th %	60,485	55,868	52,479	29,339	30,686	33,966	33,602	35,151	33,914	32,441	38,203	52,814	44,805
70th %	68,057	58,987	54,845	37,185	36,667	35,844	37,327	37,728	36,583	37,364	47,331	63,493	45,833
80th %	73,437	77,997	71,628	45,410	40,157	42,658	41,498	39,891	39,212	42,630	52,548	74,081	49,304
90th %	78,237	92,665	89,680	64,728	55,812	48,343	46,038	43,678	43,296	45,342	63,071	86,156	54,982
Maximum	97,742	129,278	103,600	122,076	102,200	78,807	85,320	49,148	67,558	72,497	76,770	109,420	61,990
Average	56,141	55,869	49,635	33,030	32,630	32,441	33,335	34,702	32,674	32,581	39,284	51,208	40,231

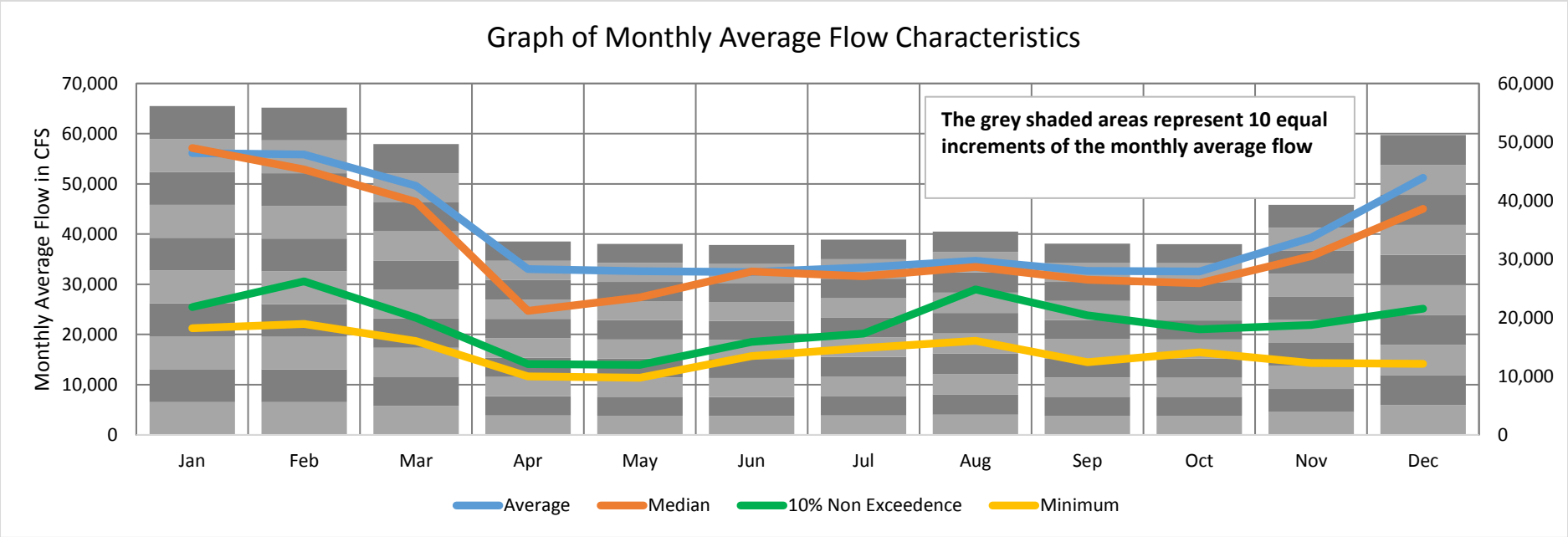
	Flows in CFS
Minimum	11,387.2
5th %	16,391
10th %	19,736
15th %	22,167
20th %	24,008
30th %	27,895
40th %	32,069
Median	34,942
60th %	39,196
70th %	45,175
80th %	53,825
90th %	71,816
Maximum	129,278
Average	40,294



Q10/Q50	0.56
Q10/Q90	0.27
	CFSM*
Qmin/DA	0.50
Q5/DA	0.72
Q10/DA	0.87
Q15/DA	0.98
Q20/DA	1.06
Q30/DA	1.23
Q40/DA	1.42
Q50/DA	1.54
Q60/DA	1.73
Q70/DA	2.00
Q80/DA	2.38
Q90/DA	3.17
Qmax/DA	5.71

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

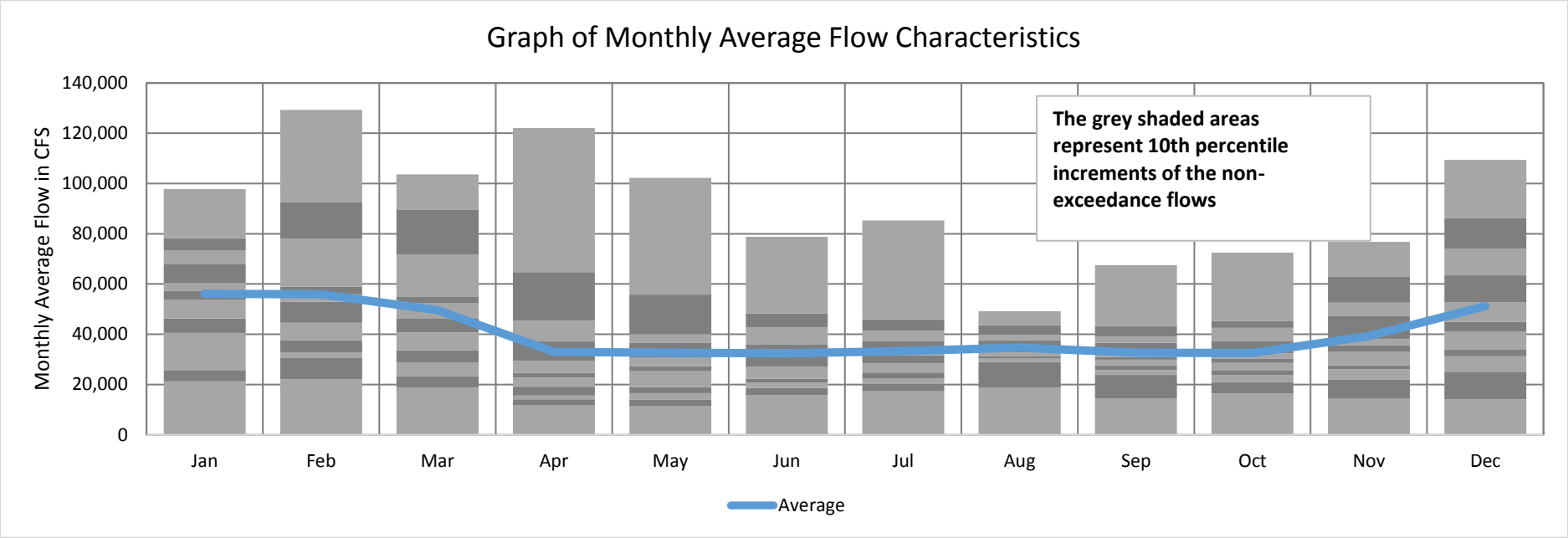
Site #: 03571850 Name: Tennessee River at South Pittsburg, Tenn.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	56,141	55,869	49,635	33,030	32,630	32,441	33,335	34,702	32,674	32,581	39,284	51,208
100%	97,742	129,278	103,600	122,076	102,200	78,807	85,320	49,148	67,558	72,497	76,770	109,420
98%	87,265	113,125	95,987	89,451	100,311	62,399	65,573	47,081	53,763	57,635	73,518	101,737
95%	79,836	103,139	91,741	75,253	79,365	55,537	54,034	45,911	45,994	48,135	69,513	95,288
90%	78,237	92,665	89,680	64,728	55,812	48,343	46,038	43,678	43,296	45,342	63,071	86,156
75%	71,039	66,549	56,691	40,913	38,817	36,622	39,507	39,030	38,073	38,162	51,268	66,800
50%	57,148	52,889	46,395	24,709	27,385	32,580	31,603	33,467	30,923	30,183	35,619	45,021
25%	45,052	33,488	31,458	17,215	18,610	22,142	23,311	30,772	25,976	24,791	26,698	33,060
10%	25,485	30,588	23,318	14,094	13,950	18,555	20,193	28,968	23,838	21,047	21,886	25,150
5%	22,411	28,942	19,501	13,028	13,583	17,820	18,890	27,184	17,076	17,787	20,267	21,632
2%	21,955	22,691	19,005	12,253	12,620	16,255	18,376	18,772	15,636	16,648	15,053	18,026
0%	21,230	22,100	18,670	11,657	11,387	15,705	17,327	18,743	14,486	16,472	14,319	14,140

Site #: 03571850 Name: Tennessee River at South Pittsburg, Tenn.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 22,640 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	56,141	55,869	49,635	33,030	32,630	32,441	33,335	34,702	32,674	32,581	39,284	51,208
100%	97,742	129,278	103,600	122,076	102,200	78,807	85,320	49,148	67,558	72,497	76,770	109,420
98%	87,265	113,125	95,987	89,451	100,311	62,399	65,573	47,081	53,763	57,635	73,518	101,737
95%	79,836	103,139	91,741	75,253	79,365	55,537	54,034	45,911	45,994	48,135	69,513	95,288
90%	78,237	92,665	89,680	64,728	55,812	48,343	46,038	43,678	43,296	45,342	63,071	86,156
75%	71,039	66,549	56,691	40,913	38,817	36,622	39,507	39,030	38,073	38,162	51,268	66,800
50%	57,148	52,889	46,395	24,709	27,385	32,580	31,603	33,467	30,923	30,183	35,619	45,021
25%	45,052	33,488	31,458	17,215	18,610	22,142	23,311	30,772	25,976	24,791	26,698	33,060
10%	25,485	30,588	23,318	14,094	13,950	18,555	20,193	28,968	23,838	21,047	21,886	25,150
5%	22,411	28,942	19,501	13,028	13,583	17,820	18,890	27,184	17,076	17,787	20,267	21,632
2%	21,955	22,691	19,005	12,253	12,620	16,255	18,376	18,772	15,636	16,648	15,053	18,026
0%	21,230	22,100	18,670	11,657	11,387	15,705	17,327	18,743	14,486	16,472	14,319	14,140

Monthly Flows (in CFS) for
03572110 - Crow Creek at Bass, Ala.

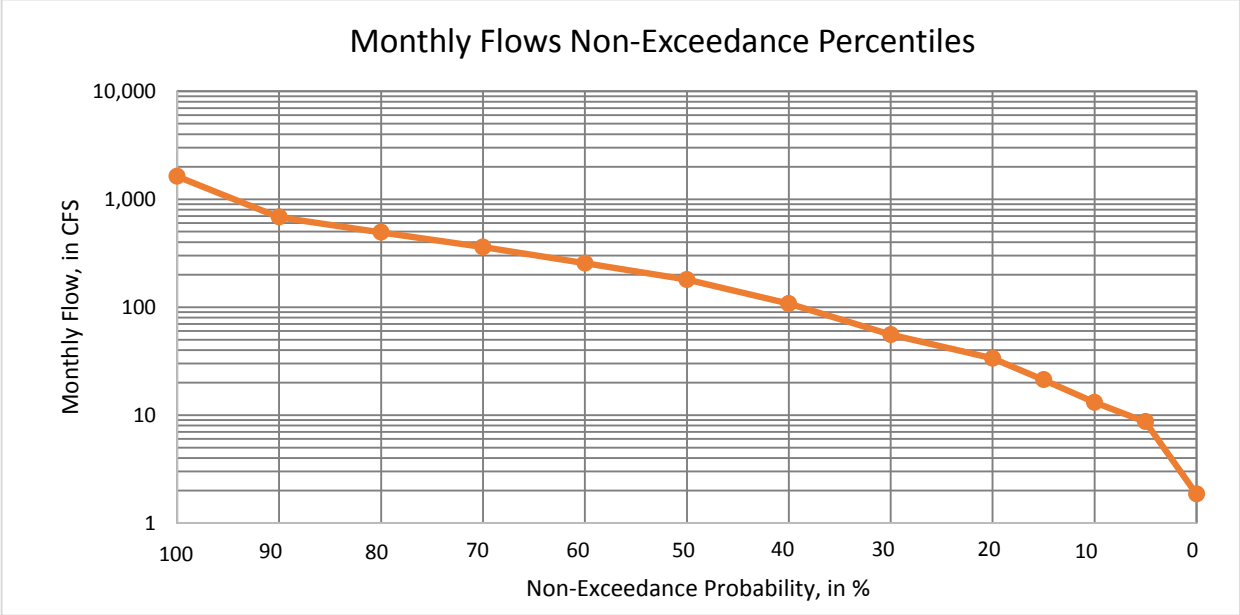
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	681	771	1,101	387	189	81	40	19	368	892	269	417	433
1976	568	292	299	158	368	140	140	15	11	83	85	227	199
1977	384	293	834	952	190	25	10	11	177	694	1,239	392	433
1978	492	125	463	180	471	79	24	41	10	5	7	242	180
1979	851	500	722	684	350	192	164	48	390	44	668	150	395
1980	507	277	1,404	570	424	46	15	13	9	9	114	51	288
1981	106	445	369	509	44	355	11	11	10	21	184	306	195
1982	994	642	491	370	125	33	29	91	34	42	188	843	323
1983	243	639	293	838	789	76	46	9	5	6	404	762	340
1984	368	278	370	628	821	30	24	69	5	96	299	255	270
1985	191	651	284	310	215	24	24	249	19	108	111	147	191
1986	67	582	397	82	48	40	13	6	17	89	466	483	188
1987	416	546	419	245	44	15	7	17	7	4	37	138	155
1988	571	153	139	337	41	10	61	23	150	31	295	212	168
1989	673	755	697	537	151	679	481	39	303	403	260	198	428
1990	729	1,170	682	252	216	152	39	23	26	45	93	1,511	408
1991	356	928	662	819	339	91	52	12	8	8	53	1,053	362
1992	432	307	374	226	56	178	86	47	119	85	572	551	252
1993	510	248	927	427	267	59	26	25	8	5	47	298	238
1994	551	1,098	1,008	590	121	104	191	161	52	108	103	304	362
1995	519	622	481	117	142	28	20	49	30	197	439	344	247
1996	786	394	1,061	1,054	162	101	56	192	357	50	233	458	408
1997	629	446	860	236	317	529	44	14	29	263	80	213	305
1998	968	668	581	628	143	123	24	17	5	11	10	194	279
1999	888	448	524	185	387	106	149	17	4	4	15	44	231
2000	181	227	507	814	60	52	19	10	13	5	193	276	195
2001	535	567	616	334	92	353	183	293	117	43	141	708	331
2002	625	215	386	279	418	35	18	11	52	46	273	446	235
2003	228	1,220	250	262	1,068	106	216	64	45	15	96	237	312
2004	332	767	584	209	102	91	227	30	265	121	705	1,625	420
2005	250	641	320	487	68	88	96	19	17	7	58	183	183
2006	416	271	181	288	149	26	11	6	4	21	170	96	136
2007	317	128	137	184	47	10	9	8	10	2	20	28	75
2008	89	316	437	248	86	36	16	52	10	21	72	900	190
2009	559	172	594	524	760	139	38	15	75	207	171	747	336
2010	482	419	313	174	205	88	25	45	9	53	100	331	186
2011	435	167	1,067	1,039	132	34	47	13	106	14	293	611	331
2012	1,070	296	323	54	26	70	55	39	148	127	56	352	219
2013	948	499	547	501	536	89	256	152	46	13	50	459	342
2014	415	656	181	404	200	140	107	146	34	179	167	392	249

Non-Exceedance Percentiles

03572110 - Crow Creek at Bass, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	67	125	137	54	26	10	7	6	4	2	7	28	75
5th %	105	152	179	115	44	14	10	7	5	4	15	51	154
10th %	190	171	243	173	47	25	11	9	5	5	35	134	179
15th %	240	225	291	183	54	27	14	11	8	5	50	150	186
20th %	303	266	310	204	67	32	18	12	9	8	56	192	190
30th %	379	293	370	247	115	38	24	15	10	13	84	223	198
40th %	426	363	410	285	143	66	25	17	15	21	101	268	237
Median	499	447	486	354	175	84	39	23	27	43	154	319	261
60th %	542	554	561	451	209	91	49	39	39	51	186	392	308
70th %	587	640	630	528	323	106	69	47	59	91	263	458	332
80th %	690	659	745	628	394	140	142	65	125	122	296	631	362
90th %	894	786	1,013	821	559	208	193	153	268	212	477	848	409
Maximum	1,070	1,220	1,404	1,054	1,068	679	481	293	390	892	1,239	1,625	433
Average	509	496	547	428	259	116	77	53	78	104	221	430	275

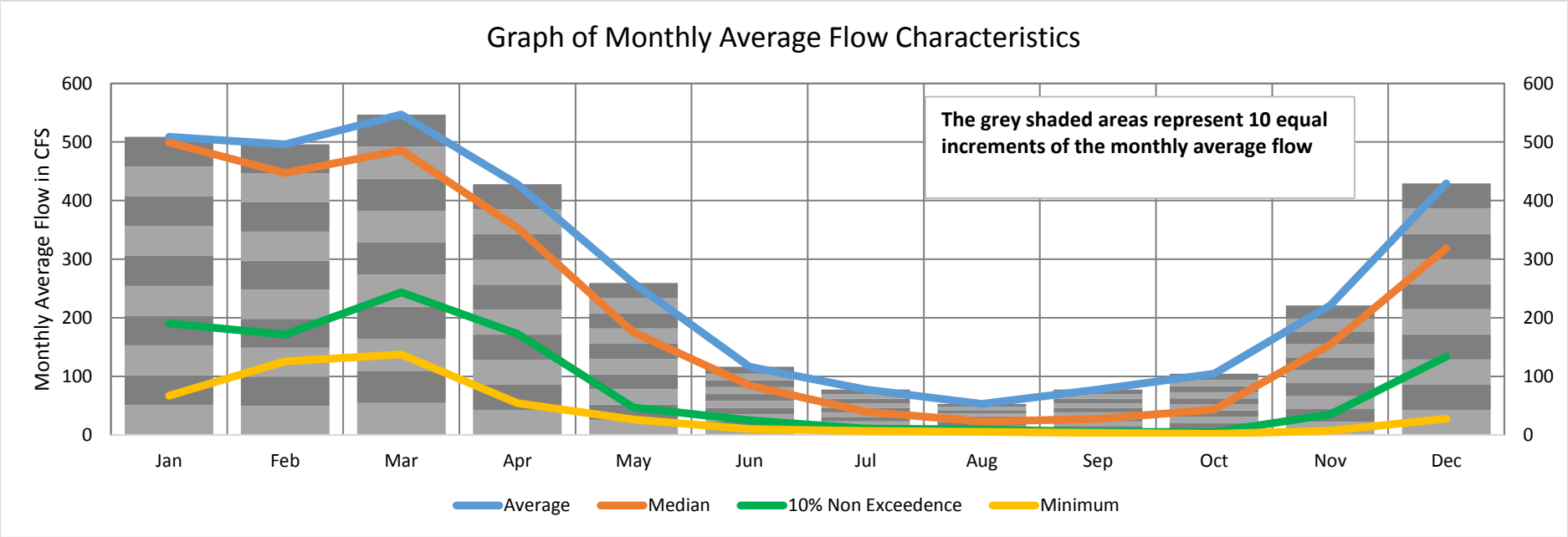
	Flows in CFS
Minimum	1.8
5th %	9
10th %	13
15th %	21
20th %	33
30th %	56
40th %	108
Median	180
60th %	255
70th %	360
80th %	493
90th %	682
Maximum	1,625
Average	277



Q10/Q50	0.07
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.07
Q10/DA	0.10
Q15/DA	0.16
Q20/DA	0.26
Q30/DA	0.42
Q40/DA	0.82
Q50/DA	1.37
Q60/DA	1.95
Q70/DA	2.75
Q80/DA	3.77
Q90/DA	5.20
Qmax/DA	12.40

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

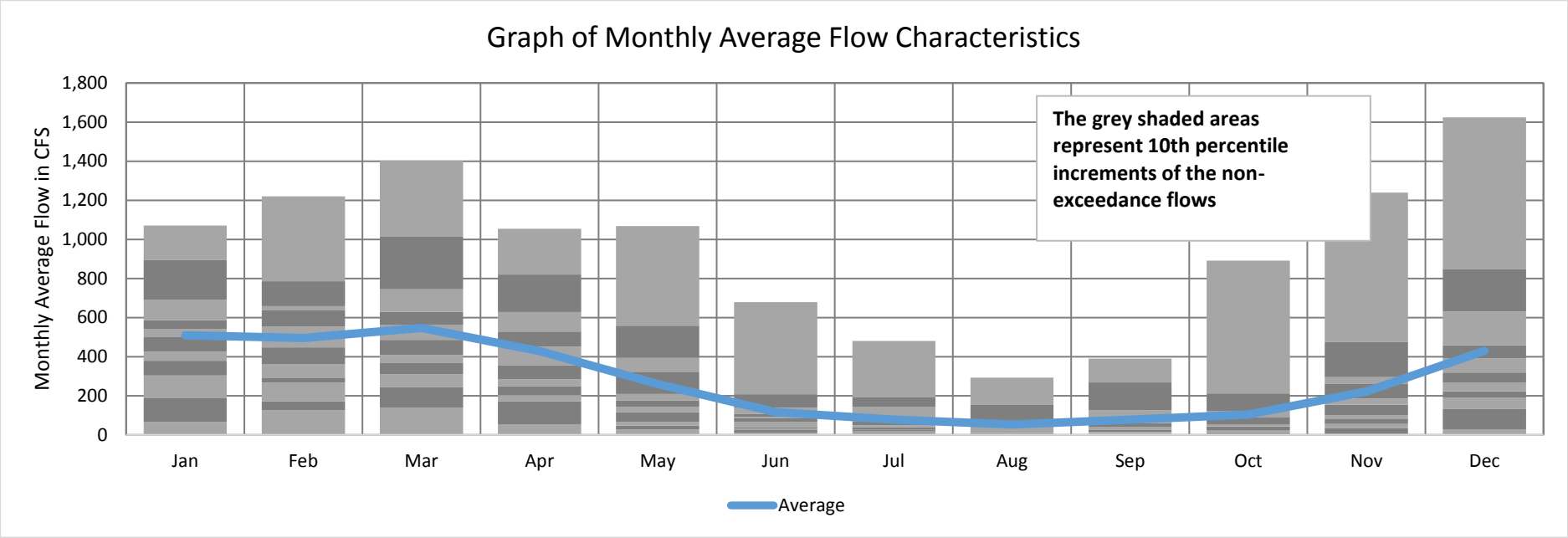
Site #: 03572110 Name: Crow Creek at Bass, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	509	496	547	428	259	116	77	53	78	104	221	430
100%	1,070	1,220	1,404	1,054	1,068	679	481	293	390	892	1,239	1,625
98%	1,011	1,181	1,168	1,043	876	562	306	258	373	737	823	1,536
95%	970	1,102	1,068	956	790	364	228	195	358	417	670	1,076
90%	894	786	1,013	821	559	208	193	153	268	212	477	848
75%	640	644	685	575	355	127	99	49	109	108	278	500
50%	499	447	486	354	175	84	39	23	27	43	154	319
25%	350	277	322	234	91	35	20	13	9.4	11	68	208
10%	190	171	243	173	47	25	11	9.5	5.2	4.8	35	134
5%	105	152	179	115	44	14	10	7.4	5.0	4.1	15	51
2%	84	127	139	76	37	9.9	8.9	5.6	4.2	3.2	9.7	40
0%	67	125	137	54	26	9.7	6.9	5.5	3.7	1.8	7.0	28

Site #: 03572110 Name: Crow Creek at Bass, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 131 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	509	496	547	428	259	116	77	53	78	104	221	430
100%	1,070	1,220	1,404	1,054	1,068	679	481	293	390	892	1,239	1,625
98%	1,011	1,181	1,168	1,043	876	562	306	258	373	737	823	1,536
95%	970	1,102	1,068	956	790	364	228	195	358	417	670	1,076
90%	894	786	1,013	821	559	208	193	153	268	212	477	848
75%	640	644	685	575	355	127	99	49	109	108	278	500
50%	499	447	486	354	175	84	39	23	27	43	154	319
25%	350	277	322	234	91	35	20	13	9.4	11	68	208
10%	190	171	243	173	47	25	11	9.5	5.2	4.8	35	134
5%	105	152	179	115	44	14	10	7.4	5.0	4.1	15	51
2%	84	127	139	76	37	9.9	8.9	5.6	4.2	3.2	9.7	40
0%	67	125	137	54	26	9.7	6.9	5.5	3.7	1.8	7.0	28

Monthly Flows (in CFS) for
03572900 - Town Creek near Geraldine, Ala.

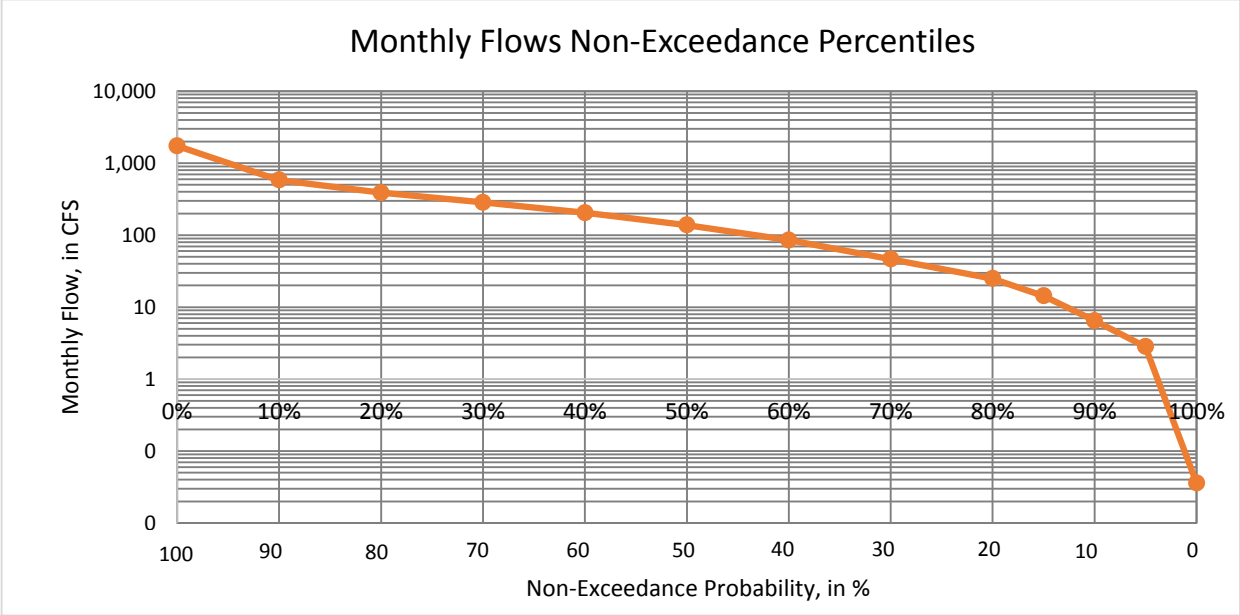
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	766	969	914	271	100	90	33	58	127	370	302	311	356
1976	624	292	582	189	223	242	532	51	14	11	34	272	257
1977	450	274	1,178	765	119	23	3	5	284	587	926	343	413
1978	594	175	436	126	388	87	5	35	2	0	1	142	167
1979	614	598	858	903	135	175	207	66	275	150	671	181	400
1980	373	355	1,738	663	301	33	2	2	19	7	105	61	306
1981	63	347	253	252	35	210	11	42	30	18	85	227	129
1982	854	499	341	327	94	24	34	85	14	12	80	554	243
1983	188	401	285	699	737	69	39	6	3	1	272	694	282
1984	324	226	341	465	553	16	22	48	1	85	241	247	214
1985	143	522	155	188	149	16	84	240	24	111	121	132	155
1986	76	414	346	75	57	69	37	4	39	67	415	361	161
1987	403	395	414	139	48	24	5	2	2	1	43	110	131
1988	433	134	102	234	27	4	32	28	193	63	339	204	149
1989	715	554	536	411	82	327	236	21	47	193	276	123	292
1990	847	1,499	645	254	144	43	17	4	3	8	34	1,671	426
1991	324	879	692	507	381	67	26	5	2	2	48	1,398	359
1992	335	233	275	179	33	182	100	22	48	32	401	519	196
1993	393	213	760	290	319	46	18	6	1	0	46	201	192
1994	473	970	875	412	81	58	54	44	14	57	108	244	278
1995	281	323	361	102	92	24	11	9	15	214	310	338	173
1996	774	317	824	493	118	43	18	51	112	40	183	352	277
1997	494	343	709	185	244	409	34	7	20	204	67	168	240
1998	821	528	452	492	116	101	16	9	1	5	4	154	223
1999	737	344	405	148	297	88	121	10	1	0	8	35	183
2000	145	178	391	664	49	42	11	3	6	1	153	214	154
2001	414	440	481	257	77	271	146	227	96	34	114	564	259
2002	490	170	296	216	321	26	10	4	42	37	212	343	181
2003	179	1,113	195	204	931	87	171	53	36	8	80	185	265
2004	255	618	455	165	84	75	178	21	206	100	561	1,677	365
2005	195	504	246	375	56	73	80	11	9	2	47	146	143
2006	319	210	144	223	121	18	4	1	0	13	136	80	105
2007	244	105	112	147	38	3	3	2	3	0	12	19	57
2008	74	244	335	194	72	27	9	42	4	13	59	750	152
2009	434	138	463	404	612	113	29	8	63	164	137	599	266
2010	371	321	241	140	162	73	17	36	3	43	83	255	145
2011	333	134	930	899	108	26	37	6	88	6	227	478	273
2012	934	229	249	44	18	58	45	30	120	104	46	270	180
2013	800	384	424	386	415	74	200	123	37	6	40	353	271
2014	318	517	145	309	159	114	88	119	25	143	134	301	196

Non-Exceedance Percentiles

03572900 - Town Creek near Geraldine, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	63	105	102	44	18	3	2	1	0	0	1	19	57
5th %	76	134	143	101	33	15	3	2	1	0	8	60	128
10th %	144	167	154	137	37	18	5	3	1	1	32	107	142
15th %	187	178	234	146	49	24	8	4	2	1	39	130	148
20th %	234	213	248	162	57	24	11	5	3	2	45	145	154
30th %	319	240	293	189	82	31	17	6	4	7	56	184	171
40th %	334	320	344	221	98	45	20	9	14	12	82	222	188
Median	398	345	409	255	118	68	32	21	20	25	111	263	219
60th %	440	398	453	317	146	74	37	32	32	41	137	322	258
70th %	524	500	550	406	230	88	61	43	43	72	216	352	271
80th %	720	533	719	492	319	113	104	51	89	118	281	526	284
90th %	802	888	879	667	428	214	180	89	133	194	402	700	360
Maximum	934	1,499	1,738	903	931	409	532	240	284	587	926	1,677	426
Average	440	428	490	335	202	89	68	39	51	73	179	382	230

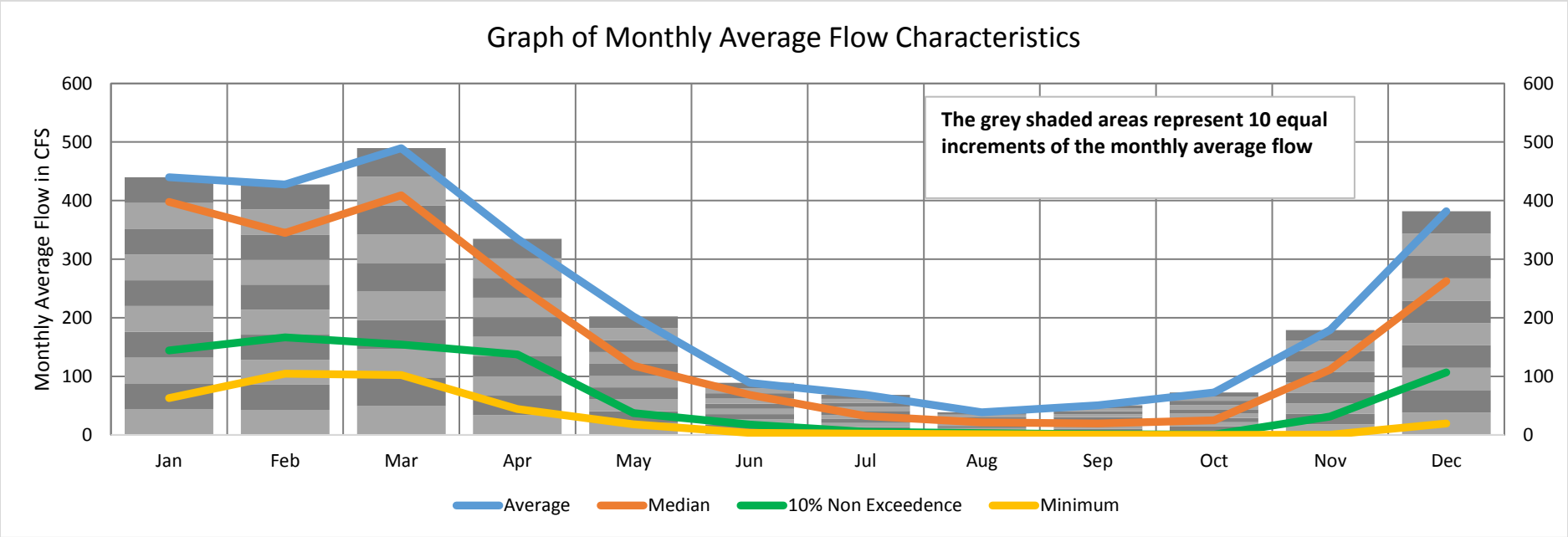
	Flows in CFS
Minimum	0.0
5th %	3
10th %	6
15th %	14
20th %	25
30th %	46
40th %	85
Median	138
60th %	204
70th %	285
80th %	388
90th %	582
Maximum	1,738
Average	231



Q10/Q50	0.05
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.02
Q10/DA	0.05
Q15/DA	0.10
Q20/DA	0.18
Q30/DA	0.33
Q40/DA	0.60
Q50/DA	0.98
Q60/DA	1.45
Q70/DA	2.02
Q80/DA	2.75
Q90/DA	4.13
Qmax/DA	12.33

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

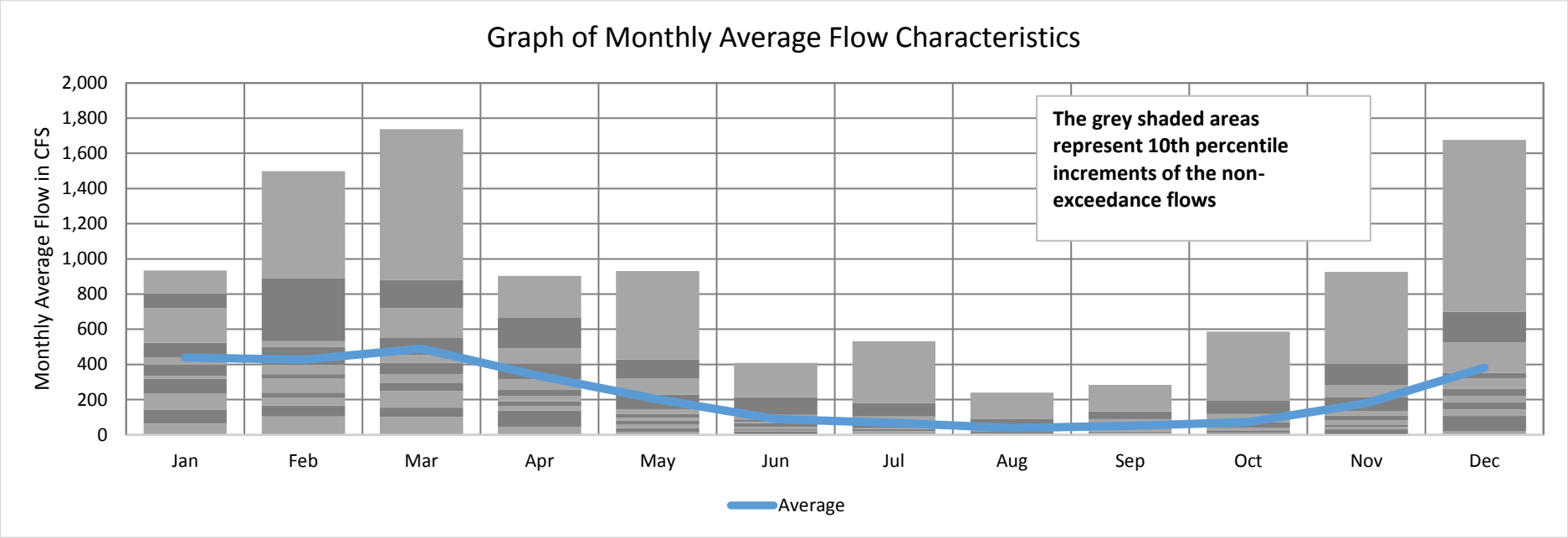
Site #: 03572900 Name: Town Creek near Geraldine, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	440	428	490	335	202	89	68	39	51	73	179	382
100%	934	1,499	1,738	903	931	409	532	240	284	587	926	1,677
98%	871	1,198	1,301	900	780	345	301	230	277	417	727	1,672
95%	847	978	942	771	618	274	209	129	209	222	566	1,411
90%	802	888	879	667	428	214	180	89	133	194	402	700
75%	617	518	657	425	298	92	85	49	51	101	249	390
50%	398	345	409	255	118	68	32	21	20	25	111	263
25%	274	228	270	184	75	26	11	5.5	2.9	5.4	47	165
10%	144	167	154	137	37	18	5.2	3.2	1.3	0.5	32	107
5%	76	134	143	101	33	15	3.4	2.0	0.5	0.2	7.8	60
2%	72	127	110	68	25	3.5	3.0	1.5	0.5	0.0	3.2	31
0%	63	105	102	44	18	3.4	2.3	1.0	0.3	0.0	0.5	19

Site #: 03572900 Name: Town Creek near Geraldine, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 141 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	440	428	490	335	202	89	68	39	51	73	179	382
100%	934	1,499	1,738	903	931	409	532	240	284	587	926	1,677
98%	871	1,198	1,301	900	780	345	301	230	277	417	727	1,672
95%	847	978	942	771	618	274	209	129	209	222	566	1,411
90%	802	888	879	667	428	214	180	89	133	194	402	700
75%	617	518	657	425	298	92	85	49	51	101	249	390
50%	398	345	409	255	118	68	32	21	20	25	111	263
25%	274	228	270	184	75	26	11	5.5	2.9	5.4	47	165
10%	144	167	154	137	37	18	5.2	3.2	1.3	0.5	32	107
5%	76	134	143	101	33	15	3.4	2.0	0.5	0.2	7.8	60
2%	72	127	110	68	25	3.5	3.0	1.5	0.5	0.0	3.2	31
0%	63	105	102	44	18	3.4	2.3	1.0	0.3	0.0	0.5	19

Monthly Flows (in CFS) for
03573000 - Short Creek near Albertville, Ala.

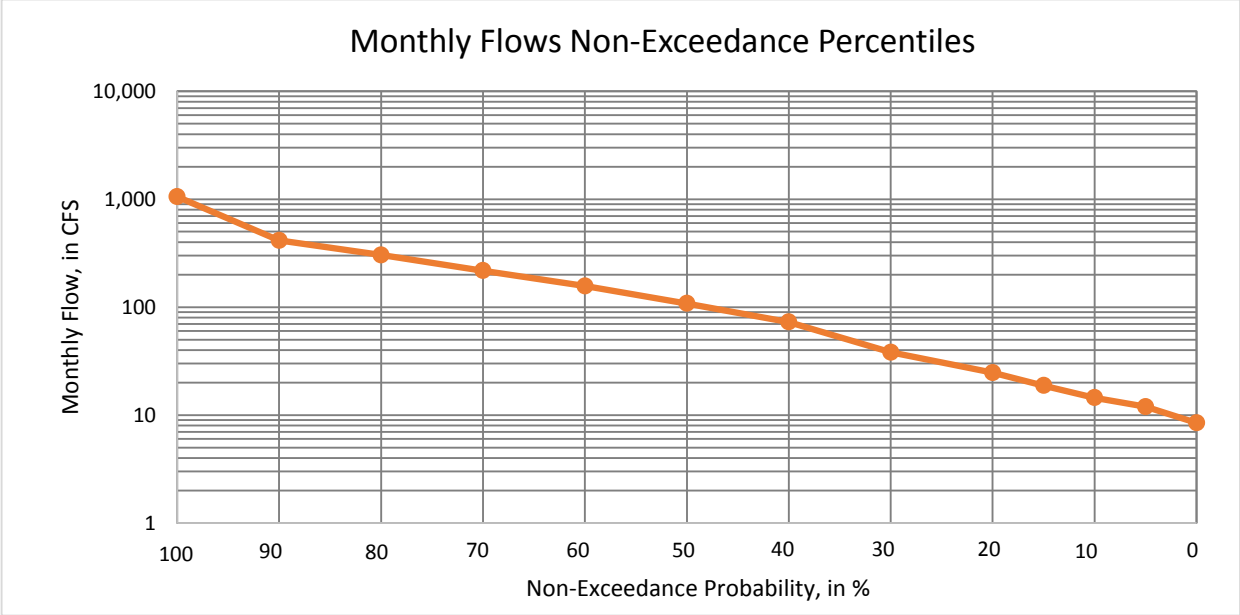
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	459	533	458	163	108	63	134	132	135	205	131	164	222
1976	416	223	550	172	125	152	68	27	22	13	26	147	162
1977	268	177	640	493	33	13	13	13	128	288	415	176	221
1978	334	107	207	95	226	47	18	43	12	10	11	73	99
1979	395	368	512	617	102	63	24	16	157	78	278	100	224
1980	269	242	1,055	452	217	41	15	12	111	123	130	96	231
1981	47	286	246	226	29	83	17	57	32	17	20	198	104
1982	620	413	205	406	103	37	47	23	17	18	66	592	212
1983	193	376	355	490	491	91	25	12	11	11	106	573	227
1984	263	162	196	297	273	35	19	36	12	25	65	113	125
1985	101	435	137	119	139	34	162	109	28	75	119	166	134
1986	95	143	119	38	90	53	16	19	21	53	311	272	102
1987	302	297	310	104	41	26	15	12	12	11	38	82	103
1988	324	100	77	177	28	14	31	29	145	50	255	154	115
1989	508	406	394	308	63	247	178	25	40	145	208	92	216
1990	586	919	465	192	108	38	23	15	13	17	32	996	281
1991	245	605	494	374	286	53	28	15	12	13	41	872	252
1992	253	175	208	135	32	137	75	25	40	49	370	370	155
1993	496	201	318	174	101	26	15	29	11	11	18	55	121
1994	283	353	373	331	68	42	142	49	58	168	118	320	191
1995	265	372	374	100	50	24	16	18	22	358	272	221	173
1996	517	281	362	145	45	30	37	30	111	50	93	224	160
1997	372	306	381	127	314	516	111	38	59	181	116	154	222
1998	485	494	358	463	77	78	19	21	10	9	13	79	173
1999	314	370	255	152	113	202	89	14	10	11	13	14	128
2000	69	72	263	396	33	23	11	15	11	9	80	65	87
2001	188	326	574	245	55	124	90	32	74	31	48	264	170
2002	338	209	247	217	220	33	26	18	56	137	283	397	182
2003	166	439	367	180	425	140	86	26	20	15	24	56	161
2004	170	439	223	64	46	84	105	30	178	105	654	415	207
2005	121	198	256	305	49	65	149	30	14	12	20	85	108
2006	233	257	212	243	161	19	11	13	29	116	163	80	127
2007	238	93	119	98	27	14	20	11	12	8	10	17	56
2008	48	177	259	112	126	32	11	83	18	12	14	361	104
2009	504	179	398	246	487	84	40	53	123	315	211	483	262
2010	279	302	358	208	265	79	19	15	11	12	13	33	132
2011	160	157	502	450	74	35	38	12	362	29	144	457	202
2012	516	237	309	75	27	19	30	19	60	40	24	193	129
2013	635	407	278	353	435	142	96	303	78	20	46	367	263
2014	200	462	217	436	162	74	23	15	13	32	33	193	153

Non-Exceedance Percentiles

03573000 - Short Creek near Albertville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	47	72	77	38	27	13	11	11	10	8	10	14	56
5th %	68	100	119	74	28	14	11	12	11	9	13	32	98
10th %	100	139	190	98	31	19	15	12	11	10	13	56	103
15th %	154	162	207	103	33	24	15	13	12	11	18	72	104
20th %	169	176	211	117	44	26	16	15	12	12	20	80	114
30th %	223	200	247	150	54	34	19	15	13	13	30	95	128
40th %	259	240	261	176	76	37	23	19	19	18	44	151	145
Median	274	292	314	213	103	50	27	24	25	30	73	171	161
60th %	318	337	360	246	118	64	37	27	40	49	117	207	177
70th %	379	373	376	315	161	80	70	30	59	76	135	286	208
80th %	487	418	459	398	234	98	91	39	111	126	220	376	222
90th %	516	465	516	453	325	143	135	60	136	184	286	492	233
Maximum	635	919	1,055	617	491	516	178	303	362	358	654	996	281
Average	307	307	341	249	146	78	52	37	57	72	126	244	167

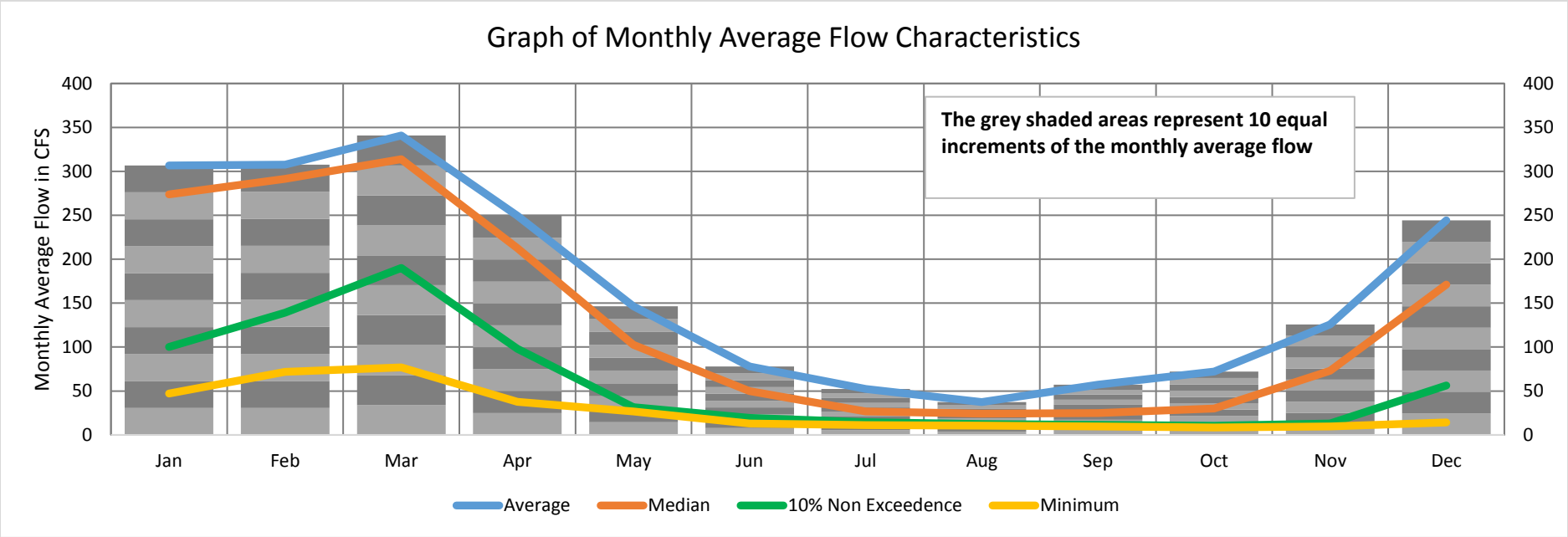
	Flows in CFS
Minimum	8.5
5th %	12
10th %	14
15th %	19
20th %	25
30th %	38
40th %	73
Median	108
60th %	157
70th %	218
80th %	303
90th %	415
Maximum	1,055
Average	168



Q10/Q50	0.13
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.09
Q5/DA	0.13
Q10/DA	0.16
Q15/DA	0.20
Q20/DA	0.27
Q30/DA	0.42
Q40/DA	0.79
Q50/DA	1.18
Q60/DA	1.71
Q70/DA	2.38
Q80/DA	3.31
Q90/DA	4.53
Qmax/DA	11.51

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

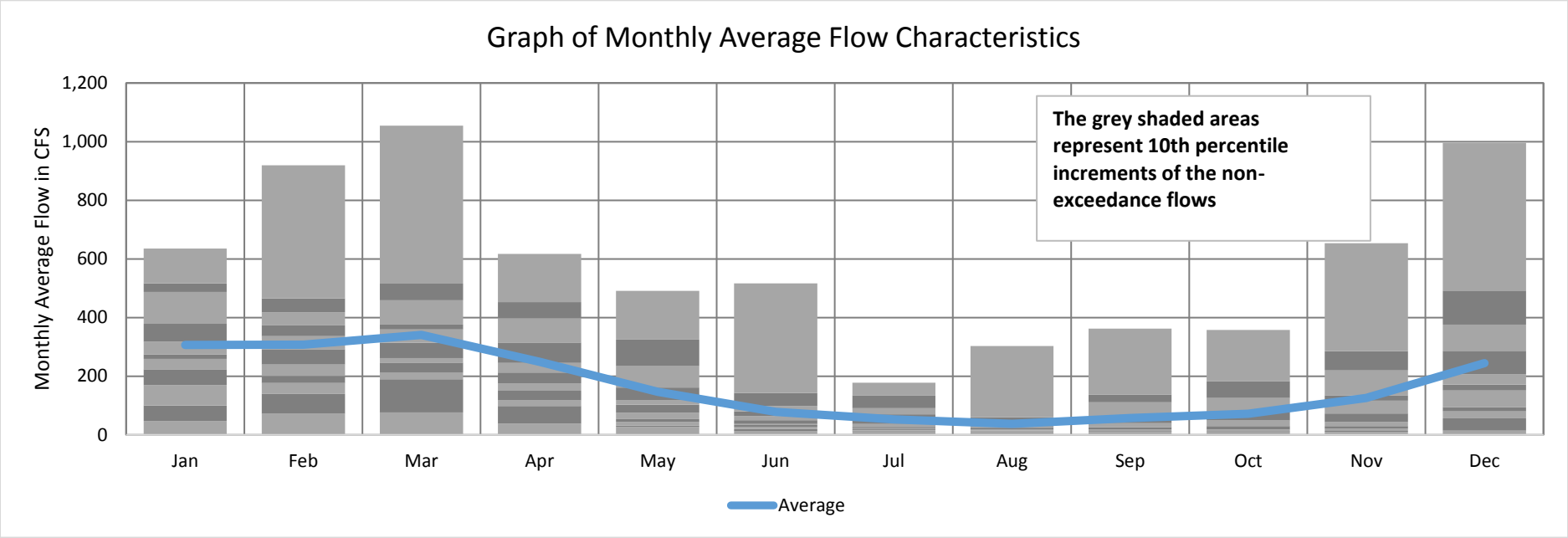
Site #: 03573000 Name: Short Creek near Albertville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	307	307	341	249	146	78	52	37	57	72	126	244
100%	635	919	1,055	617	491	516	178	303	362	358	654	996
98%	623	674	731	520	488	306	166	169	218	324	467	899
95%	588	537	577	490	438	204	150	110	158	289	372	606
90%	516	465	516	453	325	143	135	60	136	184	286	492
75%	426	406	395	358	218	84	87	33	75	108	175	362
50%	274	292	314	213	103	50	27	24	25	30	73	171
25%	192	178	221	133	48	31	18	15	12	12	24	85
10%	100	139	190	98	31	19	15	12	11	10	13	56
5%	68	100	119	74	28	14	11	12	11	9.0	13	32
2%	47	89	110	59	27	14	11	12	9.9	8.5	11	17
0%	47	72	77	38	27	13	11	11	9.6	8.5	9.8	14

Site #: 03573000 Name: Short Creek near Albertville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 92 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	307	307	341	249	146	78	52	37	57	72	126	244
100%	635	919	1,055	617	491	516	178	303	362	358	654	996
98%	623	674	731	520	488	306	166	169	218	324	467	899
95%	588	537	577	490	438	204	150	110	158	289	372	606
90%	516	465	516	453	325	143	135	60	136	184	286	492
75%	426	406	395	358	218	84	87	33	75	108	175	362
50%	274	292	314	213	103	50	27	24	25	30	73	171
25%	192	178	221	133	48	31	18	15	12	12	24	85
10%	100	139	190	98	31	19	15	12	11	10	13	56
5%	68	100	119	74	28	14	11	12	11	9.0	13	32
2%	47	89	110	59	27	14	11	12	9.9	8.5	11	17
0%	47	72	77	38	27	13	11	11	9.6	8.5	9.8	14

Monthly Flows (in CFS) for
03573182 - Scarham Creek near McVille, Ala.

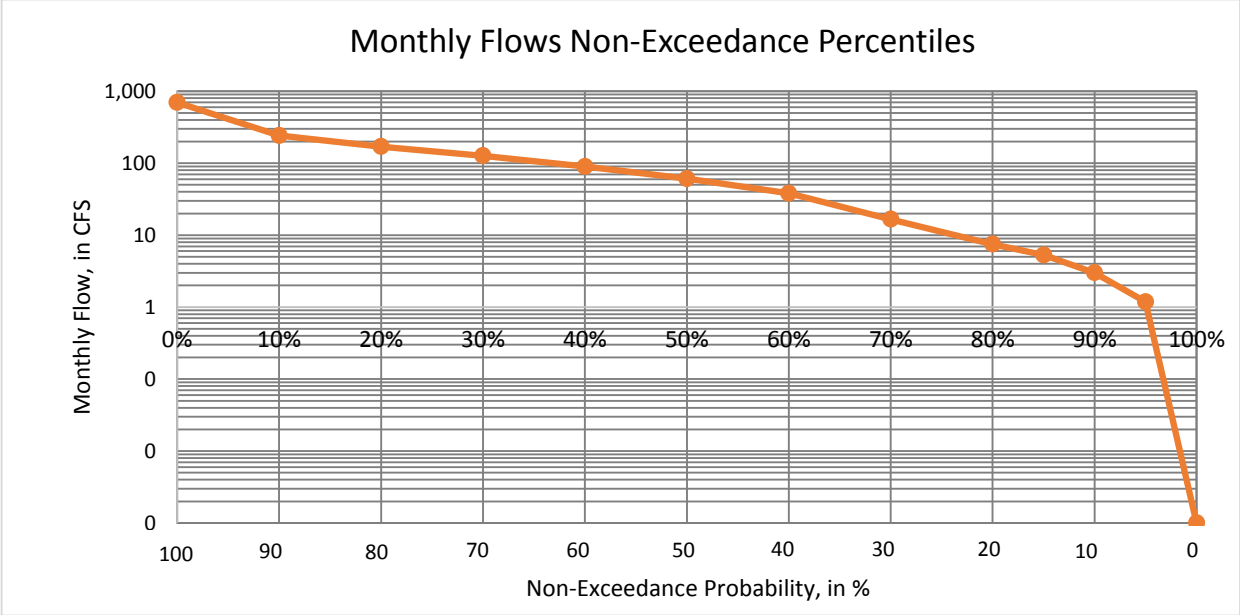
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	281	330	280	93	60	33	76	74	77	119	74	94	132
1976	253	130	341	99	70	87	36	11	8	3	11	83	95
1977	158	102	402	303	15	3	3	3	72	171	252	102	132
1978	200	59	120	52	132	23	6	21	2	1	2	39	55
1979	240	222	316	386	56	33	10	5	89	42	164	55	134
1980	159	142	698	276	127	20	4	3	61	69	73	52	141
1981	23	170	145	132	13	45	6	29	14	5	8	115	58
1982	388	251	119	247	57	17	23	9	6	6	34	369	127
1983	112	227	213	301	302	50	10	3	2	2	59	357	136
1984	155	93	114	176	161	16	7	17	2	11	34	63	71
1985	55	265	78	66	79	15	93	61	12	40	67	95	76
1986	52	81	67	18	49	27	5	7	8	22	164	149	54
1987	161	159	164	59	13	5	1	0	0	0	11	44	51
1988	169	56	40	104	6	0	7	6	86	20	142	91	60
1989	221	195	191	163	30	138	105	4	13	86	121	51	109
1990	237	286	210	112	62	11	3	0	0	1	8	294	101
1991	138	240	217	185	155	22	5	0	0	0	13	280	104
1992	141	103	120	79	8	81	39	4	13	24	223	223	88
1993	305	117	190	100	56	11	4	13	2	2	6	28	70
1994	168	213	225	198	36	20	81	25	30	96	66	191	112
1995	156	224	226	55	25	10	5	6	9	215	161	129	101
1996	319	167	218	82	22	13	17	13	62	25	51	131	93
1997	224	182	230	71	187	319	62	18	31	104	65	88	132
1998	298	304	216	284	41	42	7	8	1	0	2	54	103
1999	227	283	129	64	72	110	199	4	0	0	4	5	90
2000	74	60	147	231	15	14	3	0	0	0	48	48	53
2001	129	167	314	103	20	21	23	20	23	4	29	150	83
2002	197	122	202	116	87	6	2	0	13	38	129	220	94
2003	110	322	192	104	384	92	50	12	5	2	14	49	110
2004	144	261	127	36	31	16	70	7	140	62	397	270	129
2005	74	110	169	140	27	43	42	8	1	0	3	43	55
2006	129	127	90	103	80	5	1	0	0	65	94	43	61
2007	140	51	67	54	11	4	7	2	3	1	1	6	29
2008	24	102	153	62	71	14	2	45	6	2	4	217	59
2009	310	103	241	145	299	46	19	27	69	188	123	297	157
2010	165	180	215	121	156	42	7	5	2	3	3	15	76
2011	92	90	309	275	40	16	18	3	218	12	82	280	119
2012	319	139	185	40	12	7	13	7	31	19	10	112	74
2013	399	247	165	212	265	81	52	181	42	7	23	222	158
2014	116	283	127	266	93	39	9	4	3	14	15	111	89

Non-Exceedance Percentiles

03573182 - Scarham Creek near McVille, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	23	51	40	18	6	0	1	0	0	0	1	5	29
5th %	51	59	67	40	11	4	2	0	0	0	2	14	53
10th %	72	79	89	54	13	5	3	0	0	0	3	38	55
15th %	89	92	119	58	15	7	3	2	1	1	4	43	58
20th %	111	102	120	63	19	11	4	3	2	1	7	47	60
30th %	135	115	140	82	29	14	5	4	2	2	11	53	73
40th %	151	135	164	102	41	16	7	5	5	5	20	86	86
Median	160	167	191	108	57	20	9	7	8	11	41	98	94
60th %	180	187	212	135	71	29	18	9	13	21	65	121	102
70th %	225	225	218	179	82	42	27	13	30	38	76	162	111
80th %	258	253	232	234	137	46	51	20	62	66	124	222	129
90th %	311	283	314	277	195	87	76	31	77	106	164	282	134
Maximum	399	330	698	386	384	319	199	181	218	215	397	369	158
Average	182	174	199	143	86	40	28	17	29	37	70	132	94

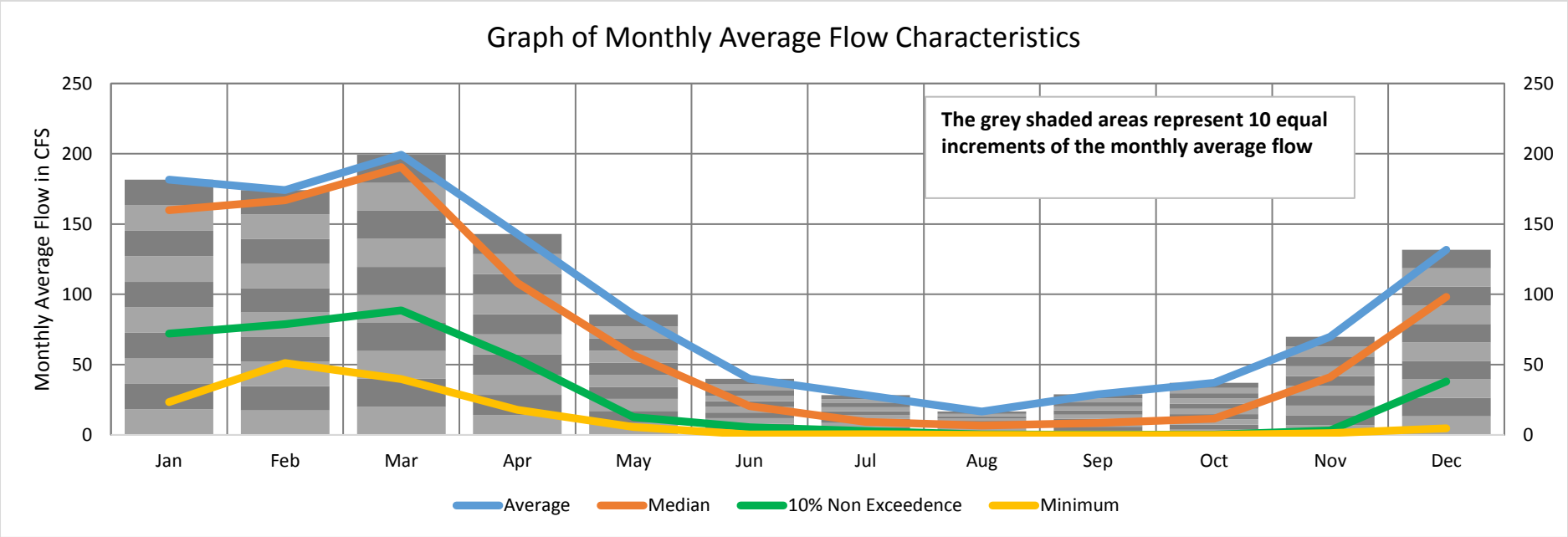
	Flows in CFS
Minimum	0.0
5th %	1
10th %	3
15th %	5
20th %	7
30th %	17
40th %	38
Median	61
60th %	90
70th %	127
80th %	170
90th %	242
Maximum	698
Average	95



Q10/Q50	0.05
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.02
Q10/DA	0.06
Q15/DA	0.11
Q20/DA	0.15
Q30/DA	0.33
Q40/DA	0.76
Q50/DA	1.22
Q60/DA	1.80
Q70/DA	2.54
Q80/DA	3.40
Q90/DA	4.84
Qmax/DA	13.96

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

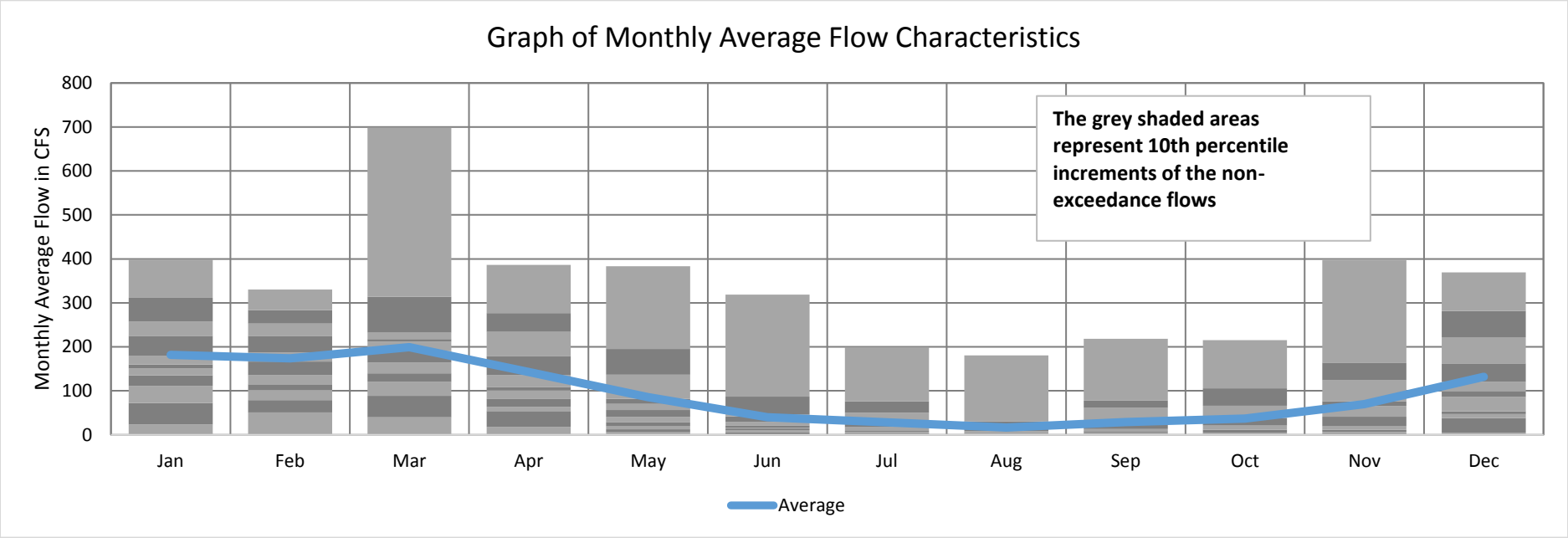
Site #: 03573182 Name: Scarham Creek near McVille, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	182	174	199	143	86	40	28	17	29	37	70	132
100%	399	330	698	386	384	319	199	181	218	215	397	369
98%	391	324	467	321	320	178	126	98	157	194	284	359
95%	323	305	344	301	299	112	94	61	92	172	225	300
90%	311	283	314	277	195	87	76	31	77	106	164	282
75%	238	242	225	202	101	44	39	17	34	47	100	218
50%	160	167	191	108	57	20	9.2	6.7	8.5	11	41	98
25%	125	103	127	70	24	13	4.9	2.9	2.3	1.9	9.2	51
10%	72	79	89	54	13	5.4	2.8	0.4	0.2	0.2	3.2	38
5%	51	59	67	40	11	4.0	1.9	0.1	0.1	0.0	2.1	14
2%	24	55	61	32	7.2	2.6	1.0	0.1	0.1	0.0	1.9	5.5
0%	23	51	40	18	5.6	0.3	0.6	0.0	0.0	0.0	1.3	4.6

Site #: 03573182 Name: Scarham Creek near McVille, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 50 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	182	174	199	143	86	40	28	17	29	37	70	132
100%	399	330	698	386	384	319	199	181	218	215	397	369
98%	391	324	467	321	320	178	126	98	157	194	284	359
95%	323	305	344	301	299	112	94	61	92	172	225	300
90%	311	283	314	277	195	87	76	31	77	106	164	282
75%	238	242	225	202	101	44	39	17	34	47	100	218
50%	160	167	191	108	57	20	9.2	6.7	8.5	11	41	98
25%	125	103	127	70	24	13	4.9	2.9	2.3	1.9	9.2	51
10%	72	79	89	54	13	5.4	2.8	0.4	0.2	0.2	3.2	38
5%	51	59	67	40	11	4.0	1.9	0.1	0.1	0.0	2.1	14
2%	24	55	61	32	7.2	2.6	1.0	0.1	0.1	0.0	1.9	5.5
0%	23	51	40	18	5.6	0.3	0.6	0.0	0.0	0.0	1.3	4.6

Monthly Flows (in CFS) for

03574000 - Guntersville Lake near Guntersville, Ala. (represents streamflow for 06030001)

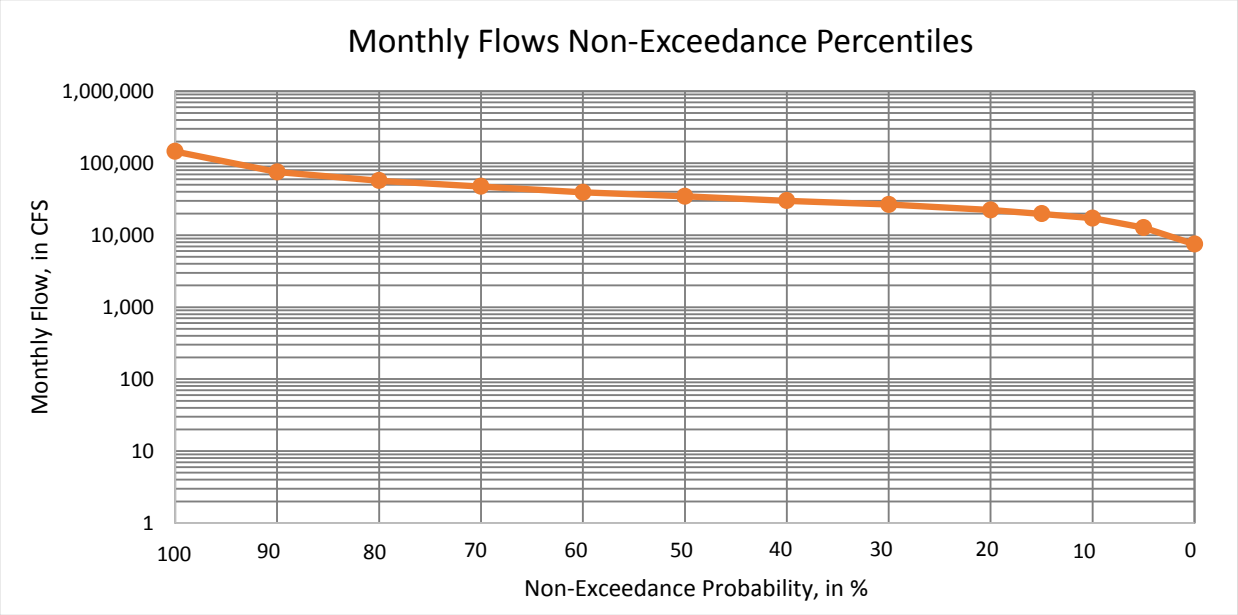
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	78,874	94,639	108,158	69,660	38,458	39,863	41,687	34,490	34,937	39,800	45,110	46,671	55,806
1976	65,010	47,410	40,887	23,743	26,729	36,660	43,552	36,145	29,573	32,523	33,947	50,394	38,898
1977	54,868	30,989	54,710	79,360	34,090	32,610	29,858	28,177	38,710	47,577	83,237	86,629	50,133
1978	82,090	55,493	49,358	22,327	31,468	27,403	25,661	35,716	29,113	17,774	17,290	37,977	35,943
1979	87,077	57,064	96,926	50,590	41,935	45,947	53,410	43,184	45,357	45,442	75,433	52,884	57,984
1980	65,490	41,876	98,884	56,717	39,690	30,563	33,326	26,310	25,017	19,761	22,723	21,081	40,175
1981	19,055	38,032	19,397	19,973	11,806	32,577	26,648	26,690	24,427	21,500	18,677	34,623	24,345
1982	90,623	95,986	62,542	22,363	15,477	21,820	28,700	38,310	32,167	29,794	36,483	92,339	47,024
1983	54,523	62,232	31,758	54,400	60,461	43,873	36,258	36,665	23,253	17,026	34,573	71,194	43,753
1984	49,389	46,915	51,869	37,367	106,009	31,195	40,062	43,624	36,145	24,951	30,061	35,679	44,536
1985	33,385	60,083	27,184	12,877	14,879	16,536	21,944	31,062	21,500	22,539	23,727	34,278	26,479
1986	20,403	35,562	26,602	7,609	8,223	10,217	15,475	13,413	17,473	22,213	39,552	56,232	22,687
1987	51,517	56,215	59,288	28,430	25,491	24,026	27,397	26,408	18,293	22,645	19,255	16,889	31,213
1988	38,414	29,431	16,232	11,818	7,472	11,266	12,471	15,162	17,214	16,440	28,353	25,627	19,096
1989	67,436	61,079	65,857	29,921	40,568	78,517	65,141	40,125	48,955	74,316	70,922	60,973	58,648
1990	87,029	145,342	93,215	20,795	39,456	31,575	29,812	37,627	26,997	28,973	33,202	74,449	53,573
1991	68,306	82,331	77,726	48,081	38,472	31,905	31,988	35,741	32,207	24,931	32,381	100,687	50,290
1992	64,356	33,830	49,399	14,356	19,018	36,656	35,151	30,970	34,551	35,679	58,135	82,345	41,322
1993	85,660	43,666	78,703	45,898	25,231	25,027	22,112	29,446	27,709	19,032	23,853	49,173	39,691
1994	73,647	117,521	103,061	130,153	25,920	32,672	42,374	43,599	43,407	45,954	40,551	47,723	61,766
1995	63,383	69,982	63,154	12,035	16,419	19,805	23,150	31,894	35,104	51,508	59,319	48,744	41,077
1996	87,213	91,973	62,517	31,662	31,454	41,762	25,014	38,048	37,132	41,602	51,683	80,182	51,478
1997	82,351	63,603	100,560	28,639	46,647	66,639	38,301	31,620	30,602	35,867	36,541	26,971	49,001
1998	67,535	86,800	61,906	85,246	55,673	51,227	27,134	30,700	24,945	21,908	22,382	34,489	47,189
1999	68,090	46,840	49,839	10,141	29,484	19,233	46,486	29,457	21,947	22,455	26,166	23,965	32,874
2000	26,524	25,175	29,235	49,217	14,309	15,899	19,623	32,549	21,320	27,688	27,208	22,377	25,906
2001	30,662	52,466	38,668	14,308	11,038	17,875	18,597	39,031	28,964	28,584	27,073	39,019	28,737
2002	63,537	35,909	47,515	25,943	30,237	16,642	20,010	25,029	26,775	27,545	56,569	79,357	38,010
2003	43,008	105,410	59,994	41,250	111,467	48,751	53,087	49,152	42,496	38,348	50,446	66,325	58,911
2004	58,069	70,146	47,073	11,756	12,120	35,044	33,611	31,905	73,924	46,460	73,254	122,442	51,193
2005	57,751	54,560	43,808	40,699	23,916	31,408	42,565	32,616	35,706	29,465	24,803	32,185	37,363
2006	48,779	38,604	21,612	26,589	19,805	17,484	18,933	27,673	28,064	32,330	57,328	29,309	30,456
2007	51,361	22,509	18,642	11,658	10,117	19,977	16,221	26,104	10,987	11,893	11,300	10,637	18,472
2008	20,550	35,641	36,218	18,764	10,702	14,097	14,929	25,516	12,508	12,694	10,191	49,661	21,762
2009	65,214	29,196	32,790	26,522	55,017	29,826	19,833	29,916	36,881	54,308	71,888	104,614	46,530
2010	76,130	96,996	34,923	16,609	28,325	19,867	14,874	26,314	21,251	20,388	29,106	49,903	35,883
2011	40,647	30,999	98,519	72,388	26,625	23,689	23,674	24,366	36,106	25,119	48,019	93,008	45,383
2012	77,273	57,500	51,133	10,093	10,915	17,187	18,989	29,510	28,148	29,823	33,039	36,317	33,251
2013	102,151	104,564	56,283	48,142	81,751	52,431	82,394	35,818	35,356	33,383	34,779	73,106	61,536
2014	69,799	63,653	33,741	24,132	16,018	19,538	20,485	26,775	26,696	41,581	42,463	42,437	35,460

Non-Exceedance Percentiles

03574000 - Guntersville Lake near Guntersville, Ala. (represents streamflow for 06030001)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637	18,472
5th %	20,542	28,995	19,359	10,138	10,022	13,955	14,926	23,906	16,979	16,253	16,991	20,871	21,629
10th %	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806	24,179
15th %	37,659	33,406	28,928	12,002	11,691	17,105	18,882	26,279	21,310	19,652	22,672	26,770	26,393
20th %	42,536	35,625	32,584	14,021	13,871	17,796	19,496	26,389	21,858	21,278	23,828	31,609	30,112
30th %	51,470	40,894	37,933	19,611	16,298	19,849	21,506	28,026	24,995	22,513	27,167	35,362	34,798
40th %	57,942	47,212	47,338	23,191	24,705	23,891	24,478	29,753	27,424	25,052	31,453	41,070	37,751
Median	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958	40,626
60th %	67,476	60,481	57,485	30,617	30,724	31,707	30,710	32,576	32,183	30,826	37,746	51,390	44,875
70th %	70,953	65,551	62,524	42,644	38,462	33,384	35,483	35,764	35,180	35,735	45,983	67,786	47,733
80th %	79,517	87,834	77,922	49,491	40,841	40,243	41,825	37,711	36,292	41,585	56,721	79,522	51,250
90th %	87,033	97,753	98,555	69,933	56,152	48,999	47,147	40,431	42,587	46,572	71,019	92,406	58,051
Maximum	102,151	145,342	108,158	130,153	111,467	78,517	82,394	49,152	73,924	74,316	83,237	122,442	61,766
Average	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572	40,846

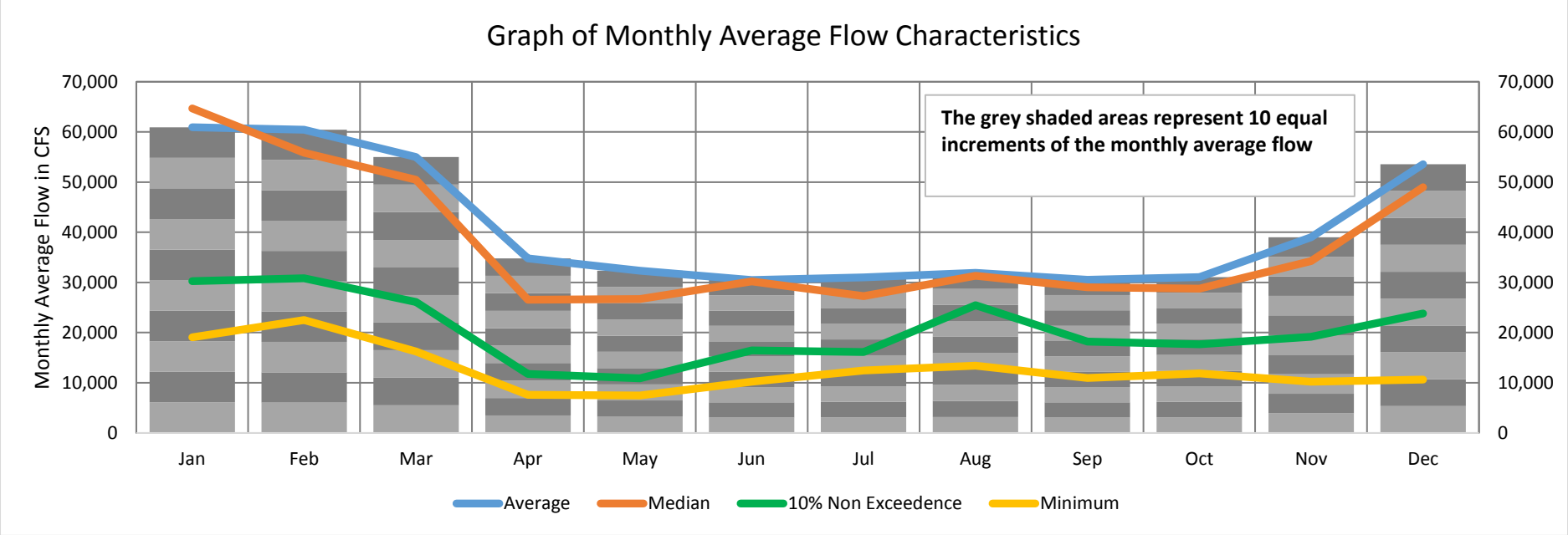
	Flows in CFS
Minimum	7,472.3
5th %	12,685
10th %	17,171
15th %	19,805
20th %	22,356
30th %	26,641
40th %	30,005
Median	34,562
60th %	39,201
70th %	47,534
80th %	57,117
90th %	75,503
Maximum	145,342
Average	40,927



Q10/Q50	0.50
Q10/Q90	0.23
	CFSM*
Qmin/DA	0.31
Q5/DA	0.52
Q10/DA	0.70
Q15/DA	0.81
Q20/DA	0.91
Q30/DA	1.09
Q40/DA	1.23
Q50/DA	1.41
Q60/DA	1.60
Q70/DA	1.94
Q80/DA	2.34
Q90/DA	3.09
Qmax/DA	5.94

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

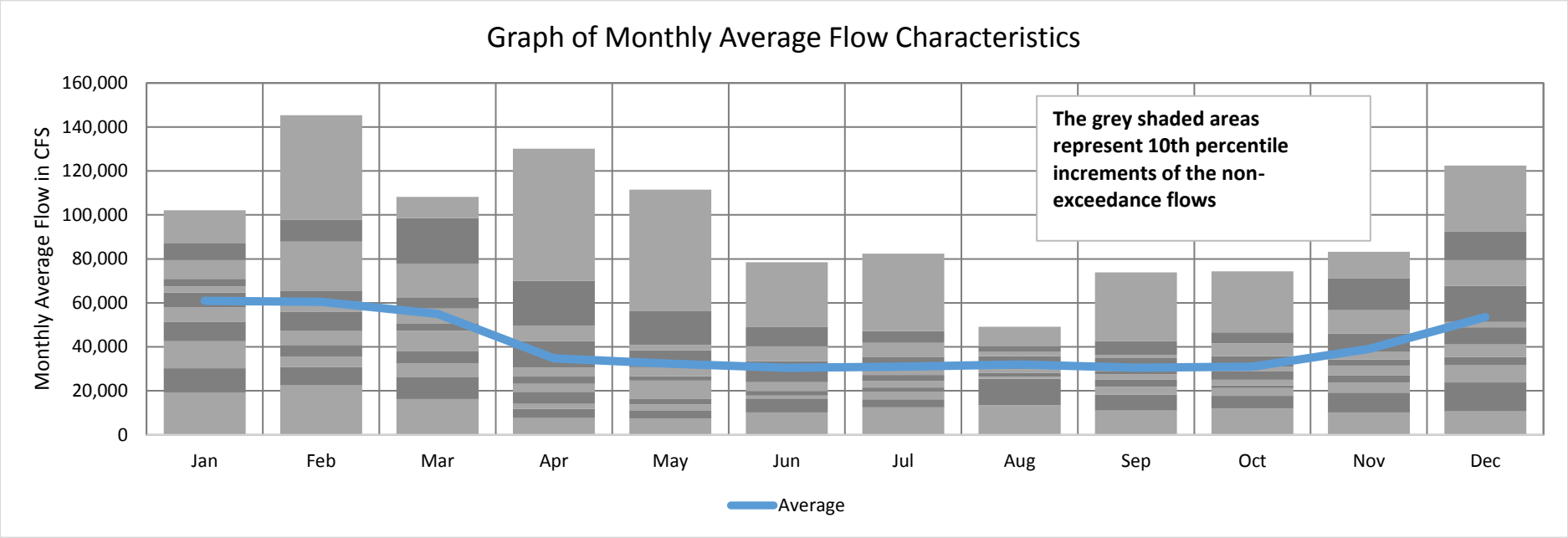
Site #: 03574000 Name: Guntersville Lake near Guntersville, Ala. (represents streamflow for 06030001)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572
100%	102,151	145,342	108,158	130,153	111,467	78,517	82,394	49,152	73,924	74,316	83,237	122,442
98%	93,159	123,641	104,183	95,125	107,210	69,252	68,937	44,840	54,448	58,709	77,150	108,536
95%	87,383	106,015	100,685	79,654	82,964	53,142	53,996	43,600	45,537	51,648	73,363	100,884
90%	87,033	97,753	98,555	69,933	56,152	48,999	47,147	40,431	42,587	46,572	71,019	92,406
75%	76,416	73,193	63,830	48,097	39,514	36,657	38,741	36,275	35,806	38,711	50,755	73,442
50%	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958
25%	49,236	37,501	34,627	16,045	15,328	19,462	19,965	26,754	24,133	22,137	25,825	34,436
10%	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806
5%	20,542	28,995	19,359	10,138	10,022	13,955	14,926	23,906	16,979	16,253	16,991	20,871
2%	20,106	24,588	18,111	9,547	8,058	11,036	14,345	14,777	12,173	12,518	11,056	15,513
0%	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637

Site #: 03574000 Name: Guntersville Lake near Guntersville, Ala. (represents streamflow for 06030001)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 24,450 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	60,929	60,456	54,997	34,806	32,322	30,482	31,023	31,921	30,548	31,045	39,025	53,572
100%	102,151	145,342	108,158	130,153	111,467	78,517	82,394	49,152	73,924	74,316	83,237	122,442
98%	93,159	123,641	104,183	95,125	107,210	69,252	68,937	44,840	54,448	58,709	77,150	108,536
95%	87,383	106,015	100,685	79,654	82,964	53,142	53,996	43,600	45,537	51,648	73,363	100,884
90%	87,033	97,753	98,555	69,933	56,152	48,999	47,147	40,431	42,587	46,572	71,019	92,406
75%	76,416	73,193	63,830	48,097	39,514	36,657	38,741	36,275	35,806	38,711	50,755	73,442
50%	64,683	55,854	50,486	26,556	26,677	30,195	27,266	31,341	29,038	28,779	34,260	48,958
25%	49,236	37,501	34,627	16,045	15,328	19,462	19,965	26,754	24,133	22,137	25,825	34,436
10%	30,248	30,833	26,103	11,746	10,893	16,472	16,146	25,468	18,211	17,699	19,197	23,806
5%	20,542	28,995	19,359	10,138	10,022	13,955	14,926	23,906	16,979	16,253	16,991	20,871
2%	20,106	24,588	18,111	9,547	8,058	11,036	14,345	14,777	12,173	12,518	11,056	15,513
0%	19,055	22,509	16,232	7,609	7,472	10,217	12,471	13,413	10,987	11,893	10,191	10,637

Monthly Flows (in CFS) for

03574500 - Paint Rock River near Woodville, Ala.

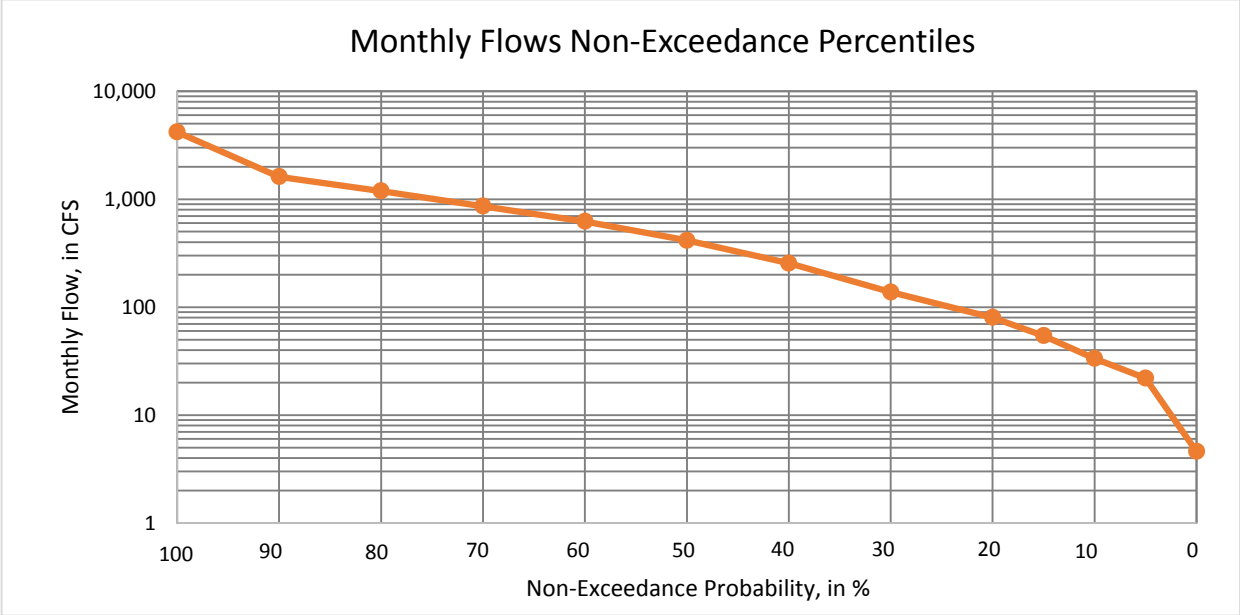
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,622	1,835	2,615	926	455	507	123	71	771	2,597	608	834	1,078
1976	1,571	802	1,061	411	983	614	804	46	65	296	358	804	653
1977	890	691	2,126	1,538	183	69	25	22	657	2,157	2,895	1,153	1,034
1978	1,190	286	1,229	372	1,070	318	55	38	24	14	13	443	425
1979	1,871	933	1,771	1,664	379	533	289	357	1,136	447	1,423	579	946
1980	1,328	687	4,185	1,351	1,312	110	32	27	18	34	309	179	802
1981	184	1,079	788	784	107	650	47	125	94	65	248	703	400
1982	2,373	1,515	1,061	1,021	276	80	106	249	54	49	234	1,662	721
1983	578	1,241	890	2,023	2,113	201	118	31	22	15	849	2,011	838
1984	1,010	701	1,062	1,423	1,659	58	74	142	15	247	748	769	660
1985	429	1,577	469	577	449	58	246	746	80	329	361	394	469
1986	221	1,278	1,076	218	168	202	112	27	118	195	1,281	1,121	496
1987	1,246	1,224	1,277	416	142	79	30	17	17	11	129	324	405
1988	1,333	400	300	727	87	24	100	90	594	184	1,055	630	459
1989	2,061	1,661	1,615	1,269	240	1,018	732	73	138	592	860	367	880
1990	2,359	3,572	1,892	790	434	129	62	27	22	37	105	3,840	1,095
1991	1,011	2,428	2,007	1,537	1,181	196	84	29	17	20	141	3,405	999
1992	1,044	722	859	549	102	557	293	73	141	99	1,240	1,571	603
1993	1,216	659	2,164	904	995	137	63	33	11	8	137	619	581
1994	1,445	2,618	2,419	1,271	235	169	157	132	55	166	319	758	801
1995	875	1,008	1,122	301	269	80	46	41	57	661	967	1,053	538
1996	2,197	989	2,308	1,499	348	128	64	149	332	120	559	1,094	816
1997	1,501	1,067	2,046	567	759	1,263	106	34	70	630	194	513	729
1998	2,302	1,593	1,386	1,497	345	296	59	42	13	28	26	466	666
1999	2,113	1,070	1,251	446	927	256	359	43	11	10	38	107	552
2000	435	545	1,211	1,938	145	127	46	23	31	12	463	663	467
2001	1,277	1,352	1,468	801	223	846	440	702	281	104	339	1,688	791
2002	1,491	517	923	669	1,000	85	44	26	125	113	654	1,067	562
2003	547	2,897	601	629	2,538	255	520	155	110	37	232	568	745
2004	795	1,826	1,394	501	245	219	545	72	635	292	1,680	3,849	1,000
2005	599	1,529	766	1,164	165	213	233	46	41	17	140	440	438
2006	994	649	434	692	360	64	26	14	9	50	409	232	325
2007	759	308	331	442	115	24	23	19	24	5	49	67	180
2008	215	758	1,045	595	208	86	39	126	26	50	174	2,142	455
2009	1,335	413	1,417	1,250	1,811	334	93	37	182	497	411	1,779	803
2010	1,152	1,002	749	419	493	213	62	110	21	128	241	794	447
2011	1,039	401	2,534	2,470	319	83	113	32	256	34	702	1,458	789
2012	2,543	709	774	131	64	170	135	95	357	307	136	842	524
2013	2,255	1,192	1,306	1,196	1,280	215	615	367	111	31	122	1,097	817
2014	992	1,564	435	965	482	337	257	353	82	432	402	938	597

Non-Exceedance Percentiles

03574500 - Paint Rock River near Woodville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	184	286	300	131	64	24	23	14	9	5	13	67	180
5th %	220	395	429	297	102	56	26	18	11	10	37	175	396
10th %	434	412	466	407	114	63	32	23	15	12	99	315	423
15th %	573	541	727	419	144	77	43	26	17	15	128	390	445
20th %	727	657	773	445	167	80	46	27	21	19	137	442	458
30th %	961	706	913	574	231	103	61	32	24	34	188	576	515
40th %	1,028	881	1,062	683	273	134	70	39	49	50	245	687	573
Median	1,203	1,038	1,220	795	354	198	103	46	67	101	348	799	656
60th %	1,330	1,205	1,338	988	451	214	115	73	101	143	410	984	735
70th %	1,494	1,401	1,512	1,256	809	268	180	114	129	260	622	1,104	801
80th %	1,909	1,580	2,015	1,438	1,014	371	290	143	261	349	851	1,589	821
90th %	2,260	1,894	2,319	1,551	1,347	618	522	353	598	595	1,244	2,024	999
Maximum	2,543	3,572	4,185	2,470	2,538	1,263	804	746	1,136	2,597	2,895	3,849	1,095
Average	1,260	1,182	1,359	949	617	275	184	121	171	278	531	1,076	665

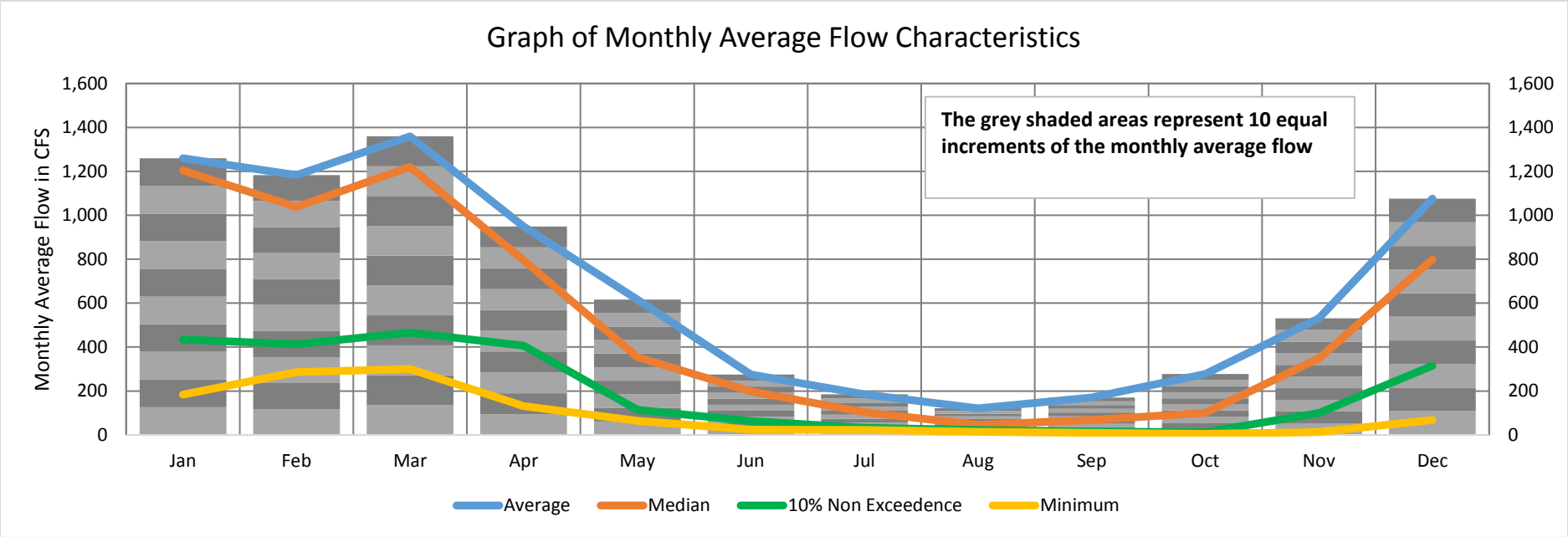
	Flows in CFS
Minimum	4.6
5th %	22
10th %	33
15th %	54
20th %	80
30th %	138
40th %	255
Median	414
60th %	623
70th %	859
80th %	1,190
90th %	1,616
Maximum	4,185
Average	667



Q10/Q50	0.08
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.01
Q5/DA	0.07
Q10/DA	0.10
Q15/DA	0.17
Q20/DA	0.25
Q30/DA	0.43
Q40/DA	0.80
Q50/DA	1.30
Q60/DA	1.95
Q70/DA	2.69
Q80/DA	3.72
Q90/DA	5.05
Qmax/DA	13.08

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

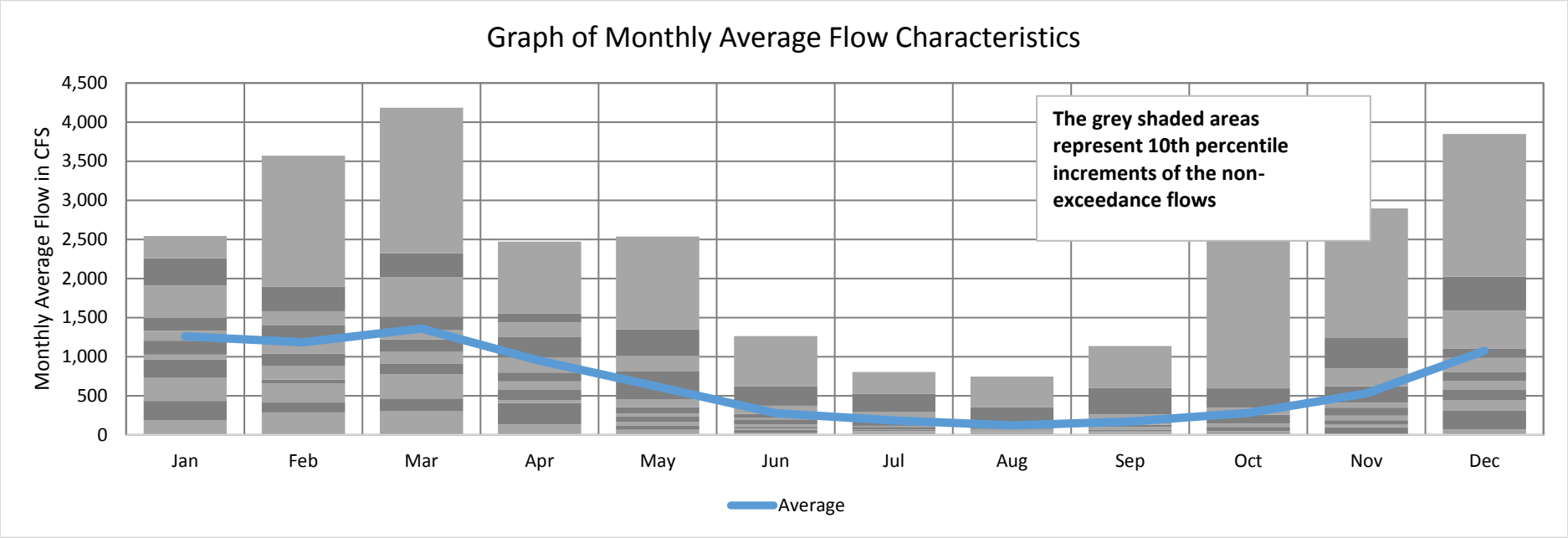
Site #: 03574500 Name: Paint Rock River near Woodville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,260	1,182	1,359	949	617	275	184	121	171	278	531	1,076
100%	2,543	3,572	4,185	2,470	2,538	1,263	804	746	1,136	2,597	2,895	3,849
98%	2,410	3,046	2,960	2,121	2,207	1,072	748	712	851	2,254	1,947	3,842
95%	2,360	2,632	2,538	1,942	1,826	855	621	384	663	736	1,436	3,427
90%	2,260	1,894	2,319	1,551	1,347	618	522	353	598	595	1,244	2,024
75%	1,584	1,538	1,801	1,291	986	322	249	128	152	299	713	1,229
50%	1,203	1,038	1,220	795	354	198	103	46	67	101	348	799
25%	855	690	841	537	202	85	53	31	22	30	141	501
10%	434	412	466	407	114	63	32	23	15	12	99	315
5%	220	395	429	297	102	56	26	18	11	10	37	175
2%	208	303	324	199	82	24	24	16	10	7.3	23	98
0%	184	286	300	131	64	24	23	14	9.0	4.6	13	67

Site #: 03574500 Name: Paint Rock River near Woodville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 320 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,260	1,182	1,359	949	617	275	184	121	171	278	531	1,076
100%	2,543	3,572	4,185	2,470	2,538	1,263	804	746	1,136	2,597	2,895	3,849
98%	2,410	3,046	2,960	2,121	2,207	1,072	748	712	851	2,254	1,947	3,842
95%	2,360	2,632	2,538	1,942	1,826	855	621	384	663	736	1,436	3,427
90%	2,260	1,894	2,319	1,551	1,347	618	522	353	598	595	1,244	2,024
75%	1,584	1,538	1,801	1,291	986	322	249	128	152	299	713	1,229
50%	1,203	1,038	1,220	795	354	198	103	46	67	101	348	799
25%	855	690	841	537	202	85	53	31	22	30	141	501
10%	434	412	466	407	114	63	32	23	15	12	99	315
5%	220	395	429	297	102	56	26	18	11	10	37	175
2%	208	303	324	199	82	24	24	16	10	7.3	23	98
0%	184	286	300	131	64	24	23	14	9.0	4.6	13	67

Monthly Flows (in CFS) for
03575000 - Flint River near Chase, Ala.

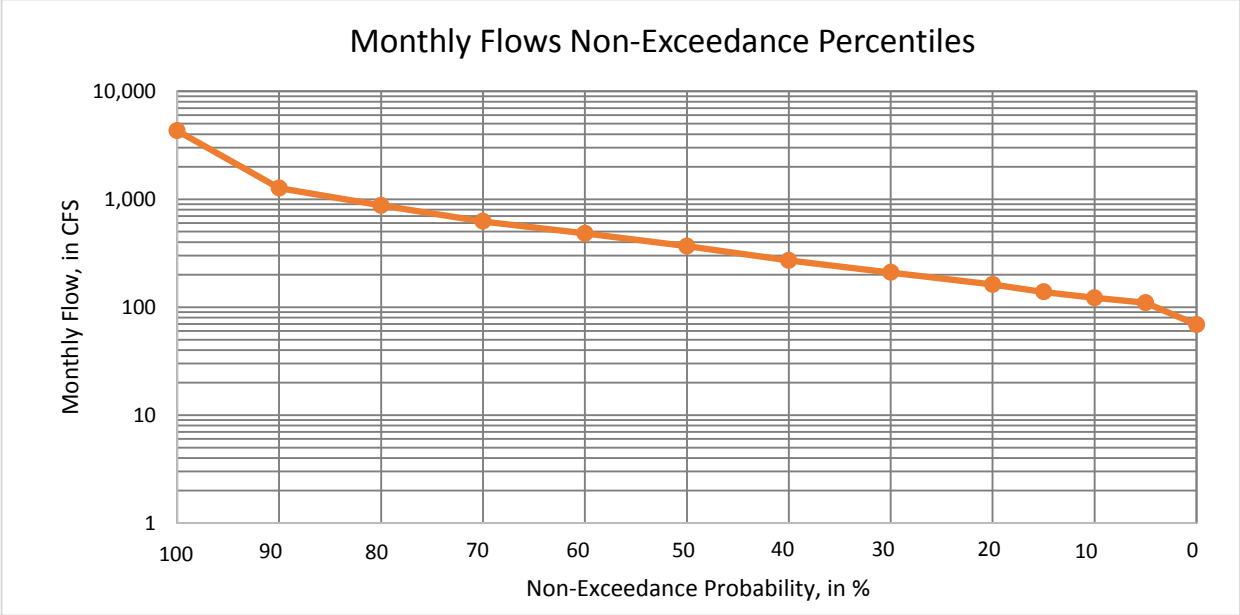
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,105	874	2,705	609	508	375	255	181	393	1,585	537	621	815
1976	977	648	573	465	532	259	305	153	178	290	271	507	430
1977	625	598	1,755	1,311	212	154	105	134	532	1,395	2,049	711	798
1978	752	382	773	363	842	398	214	148	99	84	105	443	385
1979	2,311	1,098	1,310	1,389	307	478	223	459	663	585	1,016	449	855
1980	645	496	2,793	951	1,210	259	138	109	113	113	210	154	603
1981	155	305	400	459	107	409	132	163	118	151	264	524	265
1982	1,771	1,063	747	721	280	162	180	264	142	215	291	1,225	587
1983	527	982	719	1,675	1,784	419	459	118	110	137	602	1,634	763
1984	781	582	938	1,091	1,466	223	253	337	103	239	786	648	622
1985	519	1,316	359	312	207	147	193	375	114	168	241	242	343
1986	163	831	458	176	293	559	275	170	263	197	1,244	1,186	481
1987	822	1,178	893	361	198	227	128	123	103	81	162	359	382
1988	887	353	234	485	145	82	223	91	148	105	528	524	317
1989	1,778	1,728	1,604	1,081	315	2,210	988	186	396	899	527	366	1,000
1990	1,570	2,430	1,610	710	470	206	258	111	106	115	176	4,311	1,002
1991	884	2,561	1,806	1,319	1,421	416	217	133	118	118	169	2,495	963
1992	934	557	719	352	155	248	254	112	203	132	567	850	423
1993	909	520	1,307	671	939	232	121	135	104	110	306	517	491
1994	1,234	2,407	1,776	942	361	542	298	233	166	230	502	787	779
1995	629	713	787	294	276	162	136	131	145	499	686	742	432
1996	1,613	700	1,712	1,051	320	193	150	206	311	189	440	769	639
1997	1,053	751	1,483	444	557	883	180	124	155	481	233	413	563
1998	1,706	1,121	969	1,050	318	291	146	132	95	117	115	387	534
1999	1,540	753	874	375	661	268	326	133	91	89	128	180	452
2000	369	431	847	1,393	204	193	135	112	121	94	385	500	397
2001	892	945	1,028	583	250	610	372	523	283	178	315	1,194	597
2002	1,045	415	658	504	707	166	134	115	192	184	495	751	449
2003	432	2,280	464	480	1,925	268	417	210	182	127	255	445	614
2004	579	1,302	975	406	262	247	431	156	483	289	1,187	3,362	805
2005	463	1,073	562	815	216	244	255	136	131	103	201	372	376
2006	704	492	369	517	327	150	115	97	86	139	354	255	299
2007	557	297	311	373	185	113	112	105	113	69	138	153	210
2008	245	557	737	460	241	166	129	192	115	139	221	1,565	398
2009	933	357	991	874	1,290	312	171	127	226	404	355	1,265	613
2010	807	709	551	360	402	244	148	182	109	193	260	578	377
2011	733	350	1,921	1,861	304	164	184	122	268	124	523	1,021	633
2012	1,929	527	566	196	150	219	197	172	325	297	198	608	450
2013	1,664	834	913	837	895	245	472	331	183	121	190	771	622
2014	702	1,099	369	685	395	314	269	323	163	367	351	668	471

Non-Exceedance Percentiles

03575000 - Flint River near Chase, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	155	297	234	176	107	82	105	91	86	69	105	153	210
5th %	241	347	356	289	150	145	115	105	95	84	127	179	297
10th %	426	356	369	348	182	154	127	111	103	93	160	254	340
15th %	511	410	450	361	203	162	132	112	103	105	175	365	377
20th %	551	480	534	371	211	165	135	117	109	112	197	384	384
30th %	640	548	633	455	259	202	148	126	113	120	229	447	428
40th %	744	628	743	483	299	230	180	133	120	135	262	521	451
Median	853	732	861	596	319	246	206	142	146	160	310	615	512
60th %	918	850	951	714	398	263	235	166	171	191	367	723	599
70th %	1,047	1,066	1,112	894	540	313	256	183	195	233	508	776	622
80th %	1,546	1,132	1,605	1,057	852	411	299	214	271	311	543	1,188	766
90th %	1,713	1,783	1,779	1,326	1,303	544	418	331	393	507	809	1,572	819
Maximum	2,311	2,561	2,793	1,861	1,925	2,210	988	523	663	1,585	2,049	4,311	1,002
Average	949	915	1,014	725	541	336	242	184	199	279	440	864	556

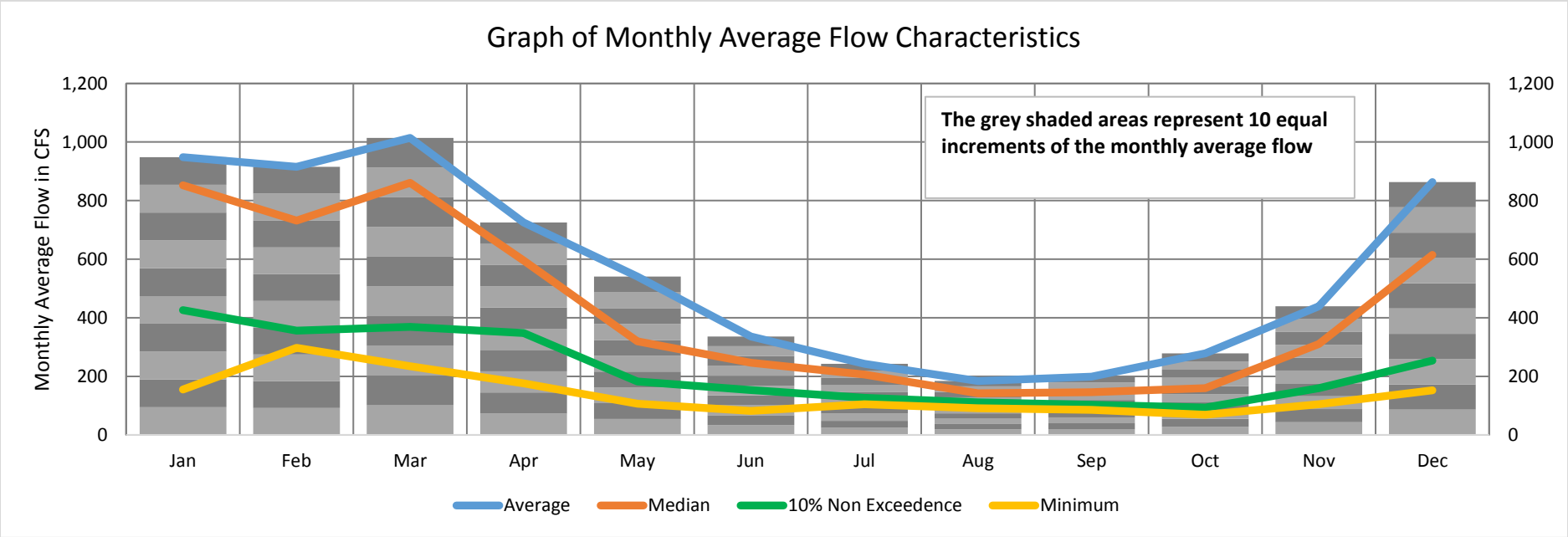
	Flows in CFS
Minimum	68.9
5th %	110
10th %	122
15th %	138
20th %	162
30th %	209
40th %	270
Median	367
60th %	482
70th %	622
80th %	874
90th %	1,267
Maximum	4,311
Average	557



Q10/Q50	0.33
Q10/Q90	0.10
	CFSM*
Qmin/DA	0.20
Q5/DA	0.32
Q10/DA	0.36
Q15/DA	0.40
Q20/DA	0.47
Q30/DA	0.61
Q40/DA	0.79
Q50/DA	1.07
Q60/DA	1.41
Q70/DA	1.82
Q80/DA	2.56
Q90/DA	3.71
Qmax/DA	12.61

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

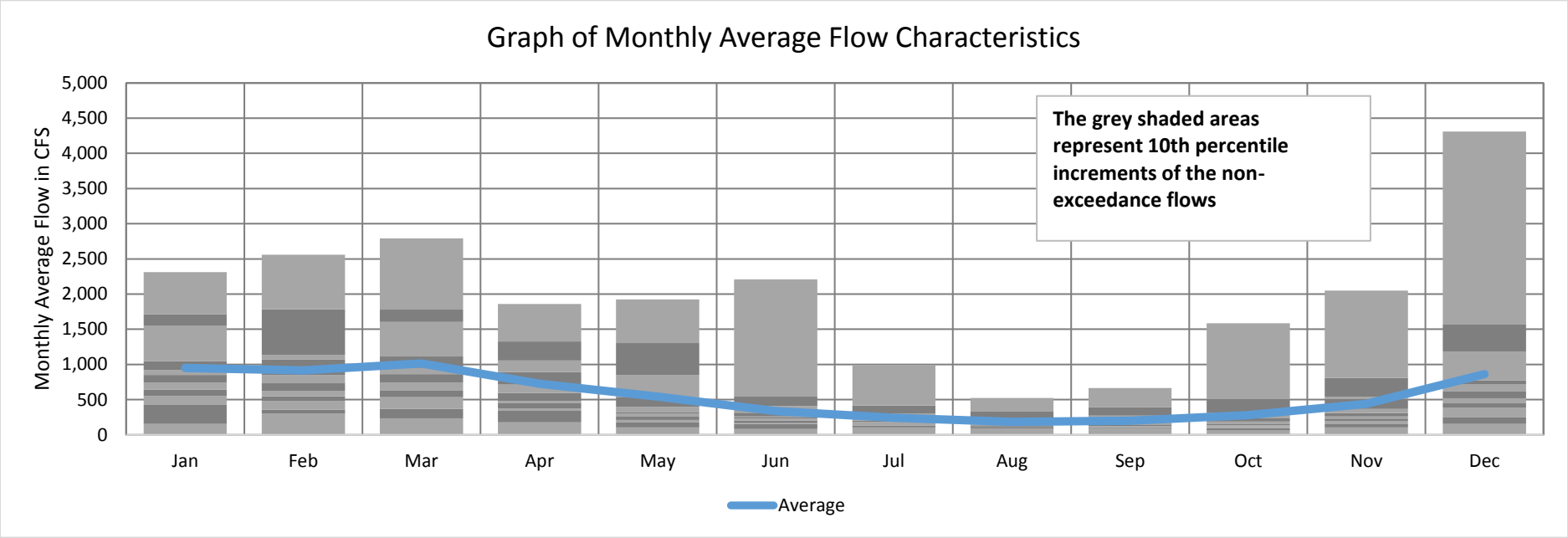
Site #: 03575000 Name: Flint River near Chase, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	949	915	1,014	725	541	336	242	184	199	279	440	864
100%	2,311	2,561	2,793	1,861	1,925	2,210	988	523	663	1,585	2,049	4,311
98%	2,013	2,459	2,724	1,716	1,815	1,175	585	473	561	1,437	1,421	3,571
95%	1,786	2,408	1,960	1,407	1,482	624	460	379	486	924	1,190	2,538
90%	1,713	1,783	1,779	1,326	1,303	544	418	331	393	507	809	1,572
75%	1,137	1,098	1,353	976	673	381	270	196	235	289	527	893
50%	853	732	861	596	319	246	206	142	146	160	310	615
25%	613	514	565	399	235	186	138	123	112	117	208	435
10%	426	356	369	348	182	154	127	111	103	93	160	254
5%	241	347	356	289	150	145	115	105	95	84	127	179
2%	161	303	294	191	137	106	110	96	90	78	113	154
0%	155	297	234	176	107	82	105	91	86	69	105	153

Site #: 03575000 Name: Flint River near Chase, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 342 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	949	915	1,014	725	541	336	242	184	199	279	440	864
100%	2,311	2,561	2,793	1,861	1,925	2,210	988	523	663	1,585	2,049	4,311
98%	2,013	2,459	2,724	1,716	1,815	1,175	585	473	561	1,437	1,421	3,571
95%	1,786	2,408	1,960	1,407	1,482	624	460	379	486	924	1,190	2,538
90%	1,713	1,783	1,779	1,326	1,303	544	418	331	393	507	809	1,572
75%	1,137	1,098	1,353	976	673	381	270	196	235	289	527	893
50%	853	732	861	596	319	246	206	142	146	160	310	615
25%	613	514	565	399	235	186	138	123	112	117	208	435
10%	426	356	369	348	182	154	127	111	103	93	160	254
5%	241	347	356	289	150	145	115	105	95	84	127	179
2%	161	303	294	191	137	106	110	96	90	78	113	154
0%	155	297	234	176	107	82	105	91	86	69	105	153

Monthly Flows (in CFS) for
03575100 - Flint River near Brownsboro, Ala.

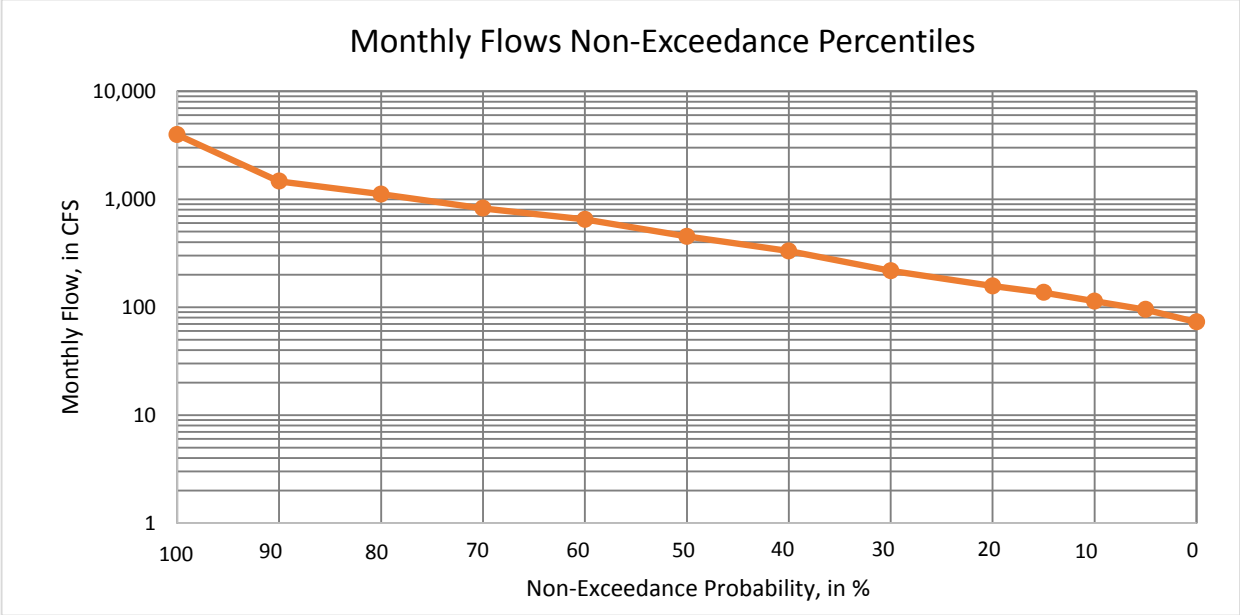
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,464	1,653	2,373	871	485	527	204	155	743	2,356	610	795	1,018
1976	1,420	768	984	449	918	615	771	128	148	354	406	771	646
1977	841	678	1,916	1,391	258	152	103	100	650	1,945	2,642	1,061	978
1978	1,092	346	1,125	417	991	372	137	119	103	89	88	475	449
1979	1,685	877	1,596	1,501	423	548	349	405	1,047	478	1,291	586	897
1980	1,210	674	3,956	1,229	1,196	192	112	106	95	115	365	254	797
1981	259	999	757	754	190	644	129	206	177	148	313	688	434
1982	2,145	1,371	984	950	338	163	189	314	136	132	302	1,500	708
1983	585	1,135	841	1,822	1,904	274	200	111	100	91	807	1,811	805
1984	941	686	984	1,291	1,497	141	157	221	91	313	724	742	650
1985	464	1,425	497	585	480	141	312	722	164	381	408	435	495
1986	291	1,167	996	289	245	275	194	106	200	268	1,169	1,034	515
1987	1,140	1,121	1,166	453	221	162	110	93	93	85	210	378	433
1988	1,214	440	357	707	170	103	182	173	599	259	979	628	483
1989	1,857	1,499	1,458	1,159	307	948	711	156	218	596	817	413	840
1990	2,131	3,317	1,704	758	468	210	145	106	100	118	187	3,593	1,060
1991	942	2,196	1,808	1,390	1,085	269	168	109	93	97	221	3,148	955
1992	969	703	816	561	185	569	351	157	221	182	1,135	1,420	605
1993	1,114	651	1,951	853	929	217	146	113	85	82	217	619	584
1994	1,310	2,376	2,188	1,161	303	246	235	213	137	243	373	733	784
1995	829	939	1,035	358	331	164	129	122	140	653	905	977	547
1996	1,981	923	2,084	1,357	398	209	147	228	384	202	570	1,011	792
1997	1,359	989	1,843	577	733	1,154	189	115	154	628	268	532	711
1998	2,078	1,439	1,259	1,355	395	354	142	123	88	113	125	636	672
1999	2,184	1,154	1,326	447	758	384	298	112	90	91	125	185	595
2000	376	513	997	1,821	249	172	113	113	103	85	266	687	456
2001	882	1,429	1,236	996	504	1,207	891	706	497	460	440	1,553	897
2002	1,728	748	1,383	650	1,065	194	156	119	349	250	651	1,215	711
2003	516	2,283	805	508	2,348	427	602	171	219	94	283	570	727
2004	644	2,105	1,485	613	258	356	675	167	272	360	1,109	3,155	927
2005	766	1,245	693	1,265	278	359	245	127	147	109	204	501	489
2006	1,022	699	438	708	561	192	95	94	94	114	400	238	386
2007	810	329	356	311	136	73	92	75	79	73	106	127	214
2008	183	468	793	677	193	154	94	163	98	190	138	1,829	416
2009	983	338	996	1,261	1,593	244	172	126	383	796	550	1,773	773
2010	1,418	1,345	896	482	577	227	114	136	101	164	407	501	527
2011	853	413	1,834	2,619	581	235	180	146	194	131	399	1,318	743
2012	2,447	815	750	212	143	115	148	130	351	364	206	789	540
2013	1,894	728	1,038	967	1,177	418	935	819	262	160	250	1,140	820
2014	898	1,248	539	1,094	542	766	220	174	143	415	379	759	593

Non-Exceedance Percentiles

03575100 - Flint River near Brownsboro, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	183	329	356	212	136	73	92	75	79	73	88	127	214
5th %	289	345	434	310	169	114	95	93	88	85	124	235	415
10th %	455	437	535	411	189	141	110	105	91	89	137	365	434
15th %	575	506	741	449	217	154	113	106	93	91	201	431	455
20th %	741	670	786	476	248	163	126	110	95	96	209	496	488
30th %	850	702	880	582	295	192	144	114	101	115	261	581	536
40th %	941	796	991	695	372	214	153	123	137	142	309	666	594
Median	1,057	964	1,036	806	474	245	176	129	147	186	389	750	661
60th %	1,211	1,143	1,245	979	550	306	191	155	184	254	407	868	718
70th %	1,419	1,277	1,466	1,181	741	376	224	168	219	356	582	1,085	786
80th %	1,754	1,431	1,813	1,304	1,006	532	320	208	349	424	809	1,436	824
90th %	2,084	2,114	1,964	1,402	1,226	656	678	324	507	631	1,112	1,813	930
Maximum	2,447	3,317	3,956	2,619	2,348	1,207	935	819	1,047	2,356	2,642	3,593	1,060
Average	1,173	1,106	1,256	922	635	354	264	194	234	345	526	1,014	667

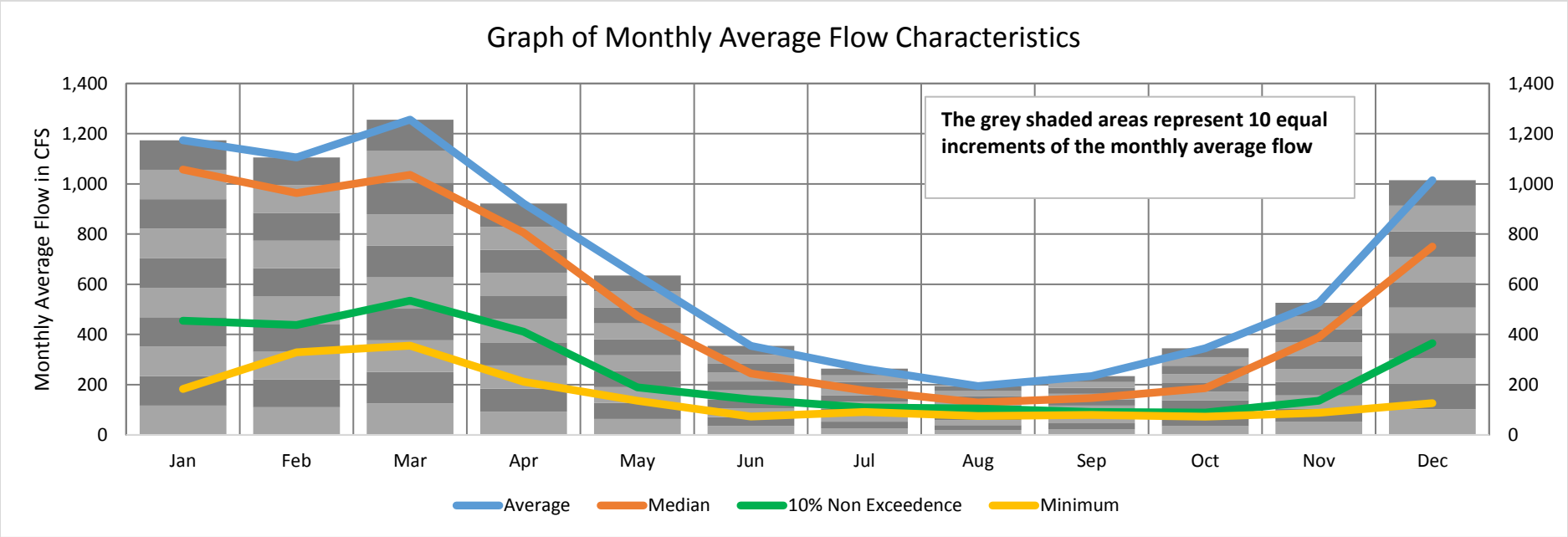
	Flows in CFS
Minimum	72.7
5th %	95
10th %	113
15th %	136
20th %	157
30th %	217
40th %	330
Median	451
60th %	650
70th %	822
80th %	1,110
90th %	1,466
Maximum	3,956
Average	669



Q10/Q50	0.25
Q10/Q90	0.08
	CFSM*
Qmin/DA	0.19
Q5/DA	0.25
Q10/DA	0.30
Q15/DA	0.36
Q20/DA	0.42
Q30/DA	0.58
Q40/DA	0.88
Q50/DA	1.20
Q60/DA	1.73
Q70/DA	2.19
Q80/DA	2.96
Q90/DA	3.91
Qmax/DA	10.55

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

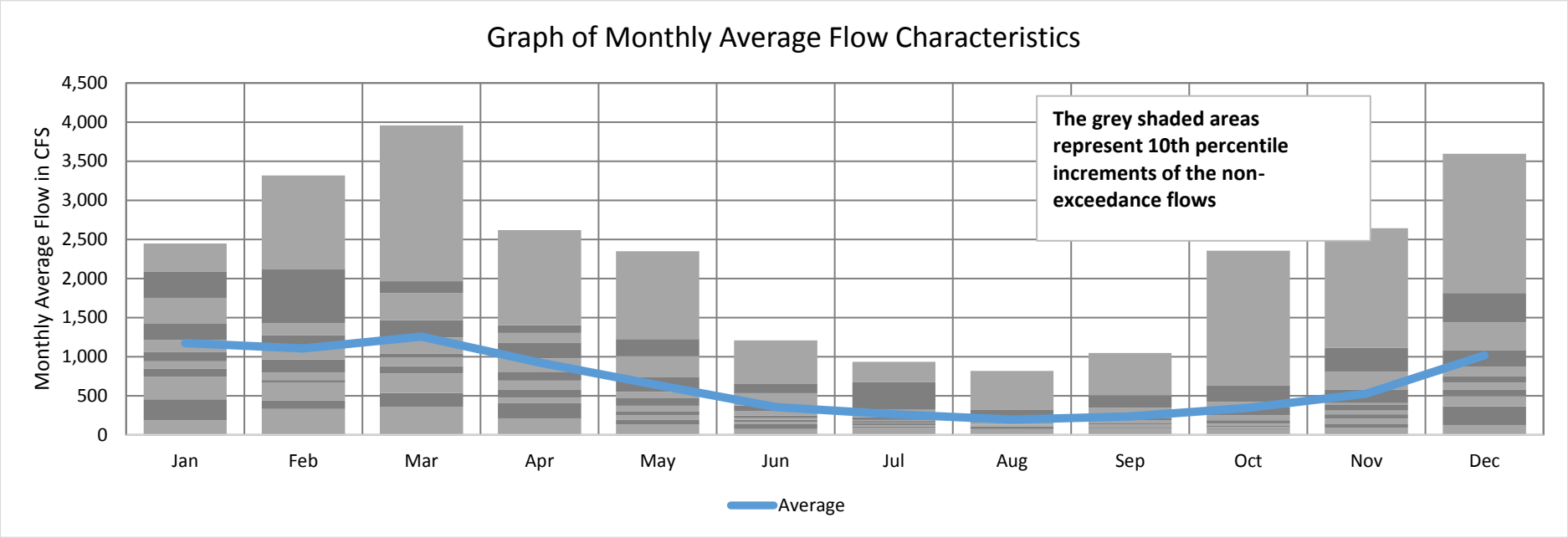
Site #: 03575100 Name: Flint River near Brownsboro, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,173	1,106	1,256	922	635	354	264	194	234	345	526	1,014
100%	2,447	3,317	3,956	2,619	2,348	1,207	935	819	1,047	2,356	2,642	3,593
98%	2,242	2,583	2,721	1,998	2,002	1,166	900	744	810	2,035	1,588	3,251
95%	2,147	2,288	2,197	1,821	1,609	958	777	707	654	854	1,176	3,148
90%	2,084	2,114	1,964	1,402	1,226	656	678	324	507	631	1,112	1,813
75%	1,520	1,384	1,623	1,262	921	420	258	173	265	368	670	1,241
50%	1,057	964	1,036	806	474	245	176	129	147	186	389	750
25%	824	684	813	548	258	170	135	113	99	112	220	524
10%	455	437	535	411	189	141	110	105	91	89	137	365
5%	289	345	434	310	169	114	95	93	88	85	124	235
2%	242	336	357	272	141	96	93	89	84	80	102	172
0%	183	329	356	212	136	73	92	75	79	73	88	127

Site #: 03575100 Name: Flint River near Brownsboro, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 375 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,173	1,106	1,256	922	635	354	264	194	234	345	526	1,014
100%	2,447	3,317	3,956	2,619	2,348	1,207	935	819	1,047	2,356	2,642	3,593
98%	2,242	2,583	2,721	1,998	2,002	1,166	900	744	810	2,035	1,588	3,251
95%	2,147	2,288	2,197	1,821	1,609	958	777	707	654	854	1,176	3,148
90%	2,084	2,114	1,964	1,402	1,226	656	678	324	507	631	1,112	1,813
75%	1,520	1,384	1,623	1,262	921	420	258	173	265	368	670	1,241
50%	1,057	964	1,036	806	474	245	176	129	147	186	389	750
25%	824	684	813	548	258	170	135	113	99	112	220	524
10%	455	437	535	411	189	141	110	105	91	89	137	365
5%	289	345	434	310	169	114	95	93	88	85	124	235
2%	242	336	357	272	141	96	93	89	84	80	102	172
0%	183	329	356	212	136	73	92	75	79	73	88	127

Monthly Flows (in CFS) for
03576148 - Cotaco Creek at Florette, Ala.

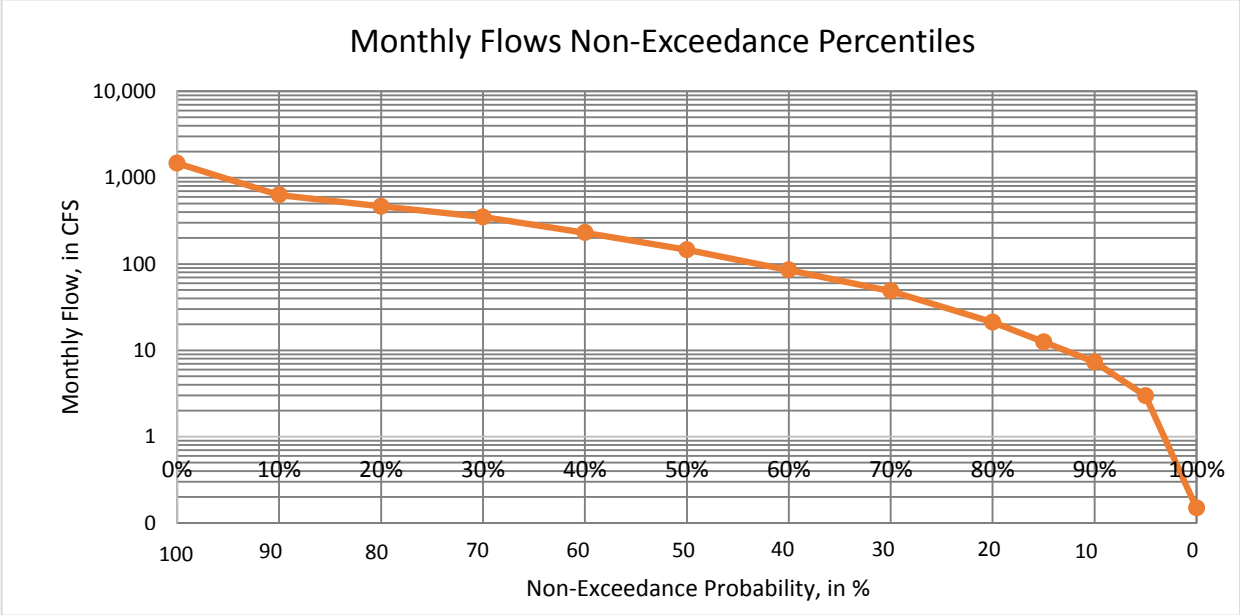
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	776	760	980	345	201	76	467	100	90	455	108	191	378
1976	498	314	491	147	195	72	83	13	22	25	44	201	175
1977	455	269	1,020	793	33	7	5	11	198	527	975	360	388
1978	454	128	452	86	429	90	14	33	5	2	1	129	153
1979	767	432	756	789	126	73	29	28	241	82	504	150	330
1980	397	307	1,466	567	426	20	5	1	61	250	248	202	330
1981	61	415	380	363	39	118	11	20	13	6	13	214	136
1982	1,166	668	289	667	159	48	23	7	0	2	11	537	296
1983	238	540	526	743	544	139	17	4	2	2	107	770	301
1984	418	265	411	527	712	38	14	43	2	64	173	240	243
1985	123	626	175	157	261	28	341	196	32	53	123	192	190
1986	102	269	282	49	65	52	7	5	16	49	191	218	108
1987	479	593	596	136	41	62	179	10	10	0	9	79	181
1988	372	243	115	262	39	3	6	3	179	103	242	199	146
1989	829	739	680	433	88	451	588	53	69	142	202	239	374
1990	1,020	1,465	662	153	196	43	29	3	4	2	9	471	332
1991	367	701	508	708	730	97	34	12	14	1	15	390	296
1992	323	549	403	189	44	91	50	79	83	43	435	527	232
1993	783	381	464	240	111	19	8	16	7	3	30	129	182
1994	539	920	899	557	130	36	93	41	27	146	143	418	326
1995	337	514	548	198	82	69	20	18	10	217	478	399	239
1996	742	408	626	292	99	34	67	55	168	65	223	458	270
1997	725	598	558	147	349	987	229	30	73	315	179	250	368
1998	892	698	569	600	129	86	29	18	2	2	15	193	267
1999	711	466	421	288	183	272	127	8	3	3	8	14	207
2000	145	134	517	694	44	23	9	3	5	0	169	195	161
2001	379	566	880	397	79	116	74	105	208	71	55	543	288
2002	565	347	448	246	376	53	72	24	60	167	433	541	278
2003	245	893	450	323	832	143	75	37	39	10	42	117	263
2004	317	789	398	76	54	83	88	11	93	109	670	798	287
2005	214	295	265	438	50	142	194	38	49	7	39	193	159
2006	404	373	256	353	293	15	3	5	44	176	186	133	186
2007	379	174	119	71	19	2	4	1	12	2	3	3	65
2008	32	253	383	126	146	39	13	29	4	10	8	521	130
2009	857	272	552	428	795	121	40	50	200	464	240	645	391
2010	544	473	500	385	502	60	19	18	2	3	11	46	213
2011	311	240	866	820	105	35	49	8	378	28	156	565	297
2012	747	330	327	50	26	18	6	11	71	83	21	280	164
2013	1,009	601	435	428	583	54	71	190	12	1	26	411	318
2014	239	623	261	506	117	231	31	9	5	105	102	398	216

Non-Exceedance Percentiles

03576148 - Cotaco Creek at Florette, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	32	128	115	49	19	2	3	1	0	0	1	3	65
5th %	100	172	173	70	32	7	4	2	2	1	7	44	129
10th %	143	242	261	85	39	18	6	3	2	1	8	113	145
15th %	234	263	279	134	43	20	7	5	4	2	11	129	158
20th %	244	269	319	147	49	27	8	6	4	2	12	147	164
30th %	332	312	401	195	81	37	14	9	9	3	25	193	185
40th %	379	378	443	277	109	51	22	12	13	10	43	201	214
Median	436	449	477	349	130	61	30	18	25	46	107	240	253
60th %	514	544	521	409	188	74	49	25	46	67	162	372	282
70th %	716	599	561	458	271	90	73	34	70	104	187	413	296
80th %	768	674	666	573	426	119	89	45	91	150	240	522	327
90th %	861	763	882	712	596	152	197	81	198	257	439	545	369
Maximum	1,166	1,465	1,466	820	832	987	588	196	378	527	975	798	391
Average	499	491	523	369	236	104	81	34	63	95	166	314	247

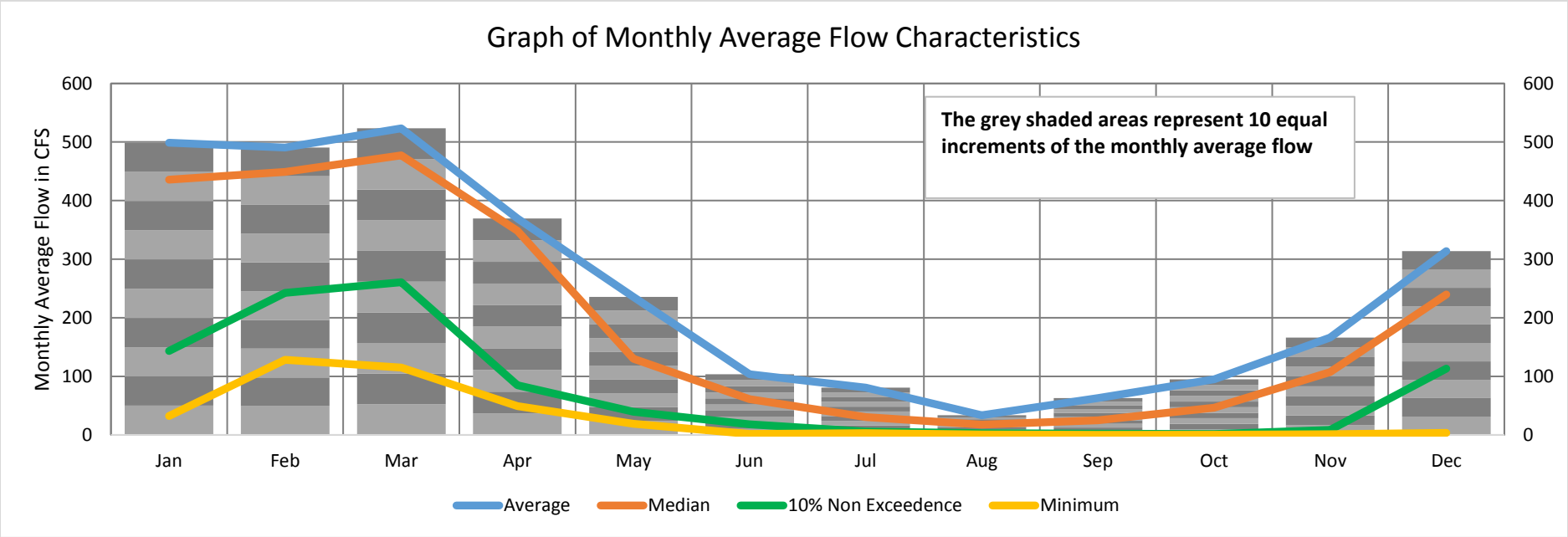
	Flows in CFS
Minimum	0.1
5th %	3
10th %	7
15th %	12
20th %	21
30th %	48
40th %	85
Median	146
60th %	230
70th %	350
80th %	464
90th %	628
Maximum	1,466
Average	248



Q10/Q50	0.05
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.00
Q5/DA	0.02
Q10/DA	0.05
Q15/DA	0.09
Q20/DA	0.16
Q30/DA	0.36
Q40/DA	0.62
Q50/DA	1.07
Q60/DA	1.69
Q70/DA	2.57
Q80/DA	3.41
Q90/DA	4.62
Qmax/DA	10.78

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

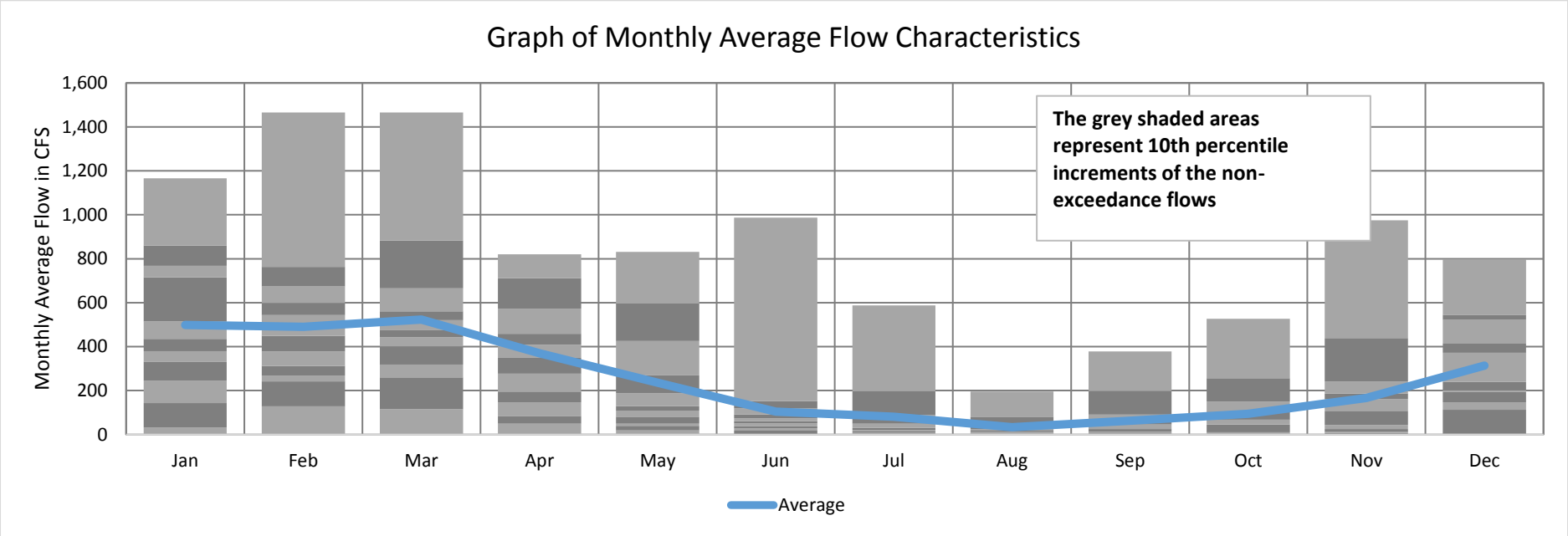
Site #: 03576148 Name: Cotaco Creek at Florette, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	499	491	523	369	236	104	81	34	63	95	166	314
100%	1,166	1,465	1,466	820	832	987	588	196	378	527	975	798
98%	1,052	1,040	1,118	799	803	569	493	191	271	478	737	776
95%	1,009	895	982	789	733	281	347	109	210	456	512	651
90%	861	763	882	712	596	152	197	81	198	257	439	545
75%	744	624	604	535	356	102	77	38	76	117	207	461
50%	436	449	477	349	130	61	30	18	25	46	107	240
25%	316	289	382	156	62	34	12	8.2	5.0	2.6	15	192
10%	143	242	261	85	39	18	5.5	3.0	2.3	1.5	8.5	113
5%	100	172	173	70	32	7.1	4.5	2.5	2.0	0.6	7.4	44
2%	54	133	118	49	24	2.9	3.9	1.2	1.2	0.4	2.7	12
0%	32	128	115	49	19	1.7	2.9	0.5	0.1	0.4	1.2	3.4

Site #: 03576148 Name: Cotaco Creek at Florette, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 136 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	499	491	523	369	236	104	81	34	63	95	166	314
100%	1,166	1,465	1,466	820	832	987	588	196	378	527	975	798
98%	1,052	1,040	1,118	799	803	569	493	191	271	478	737	776
95%	1,009	895	982	789	733	281	347	109	210	456	512	651
90%	861	763	882	712	596	152	197	81	198	257	439	545
75%	744	624	604	535	356	102	77	38	76	117	207	461
50%	436	449	477	349	130	61	30	18	25	46	107	240
25%	316	289	382	156	62	34	12	8.2	5.0	2.6	15	192
10%	143	242	261	85	39	18	5.5	3.0	2.3	1.5	8.5	113
5%	100	172	173	70	32	7.1	4.5	2.5	2.0	0.6	7.4	44
2%	54	133	118	49	24	2.9	3.9	1.2	1.2	0.4	2.7	12
0%	32	128	115	49	19	1.7	2.9	0.5	0.1	0.4	1.2	3.4

Monthly Flows (in CFS) for
03576250 - Limestone Creek near Athens, Ala.

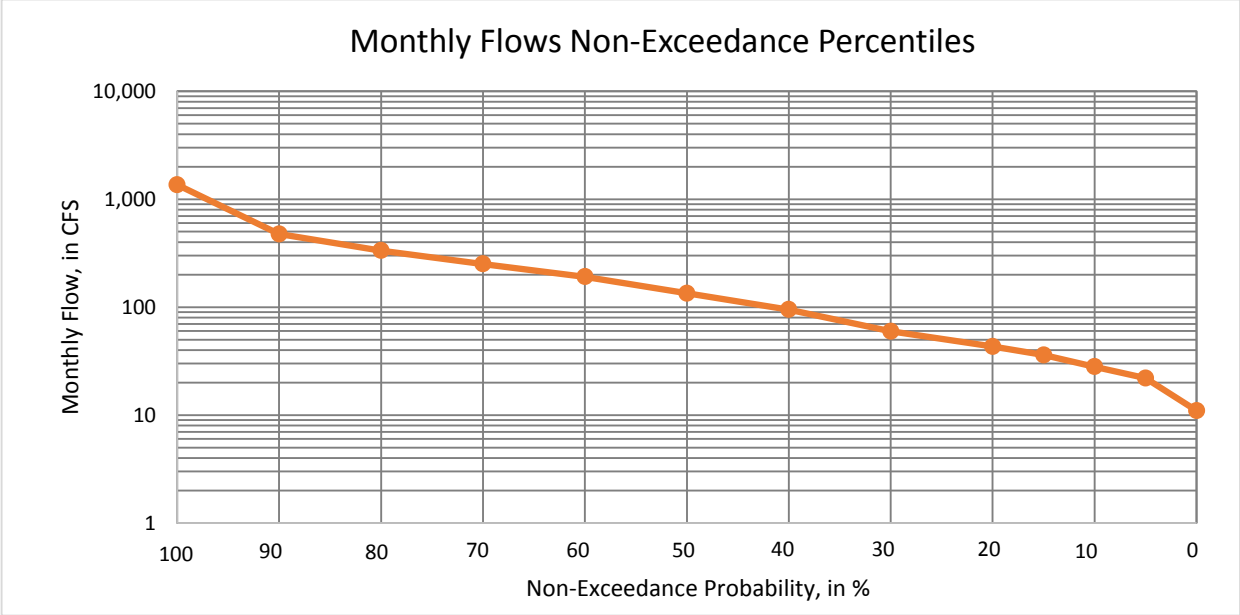
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	439	502	754	249	134	146	55	41	210	747	171	226	306
1976	424	218	284	124	264	172	219	33	39	97	111	219	184
1977	240	191	592	414	70	40	25	24	182	602	852	308	295
1978	318	95	328	115	286	102	36	30	25	20	20	131	126
1979	513	251	482	451	116	153	95	111	304	132	382	164	262
1980	355	190	1,361	362	351	51	28	26	22	29	100	69	247
1981	70	289	215	213	51	181	33	55	47	39	85	194	121
1982	672	408	284	274	92	43	50	86	35	34	82	450	209
1983	163	332	240	559	588	74	54	28	24	21	230	556	238
1984	271	193	284	382	449	37	41	60	21	85	205	210	187
1985	128	426	138	163	133	37	85	204	43	105	112	120	139
1986	79	342	288	78	66	74	52	26	54	73	343	300	146
1987	333	327	341	125	60	43	27	22	21	18	56	104	122
1988	357	121	98	200	45	25	49	46	167	70	282	176	136
1989	571	450	437	339	84	273	201	41	59	167	232	114	246
1990	667	1,108	519	215	129	56	38	26	24	30	50	1,216	336
1991	271	690	554	414	316	73	44	27	22	23	60	1,043	293
1992	279	198	232	156	49	158	96	41	60	48	331	424	173
1993	325	183	604	244	267	58	38	28	18	17	58	173	168
1994	388	755	687	340	82	67	63	57	36	110	181	242	248
1995	276	241	363	180	113	37	46	48	32	158	312	216	168
1996	539	239	651	434	80	50	45	52	183	79	226	518	258
1997	555	435	553	130	138	395	92	33	76	192	151	266	251
1998	777	598	445	418	142	53	32	139	25	24	31	212	239
1999	873	391	444	174	227	87	44	15	12	14	23	71	198
2000	165	171	283	602	61	36	19	20	15	13	41	177	133
2001	321	507	415	301	233	379	290	198	174	169	133	558	306
2002	599	217	457	184	332	38	63	25	55	95	240	475	233
2003	175	750	256	158	676	86	81	42	96	30	96	168	215
2004	216	755	475	134	76	251	174	52	89	119	397	940	304
2005	253	436	213	330	77	104	92	29	68	28	53	162	151
2006	389	225	132	213	187	42	20	26	18	28	99	70	120
2007	296	114	120	74	38	16	22	12	11	13	25	30	64
2008	50	158	232	223	53	53	37	52	23	48	30	578	128
2009	305	105	356	315	526	131	85	32	237	429	211	604	280
2010	464	399	263	130	171	78	50	39	22	45	119	122	157
2011	269	153	606	895	151	47	78	36	56	25	97	425	237
2012	694	236	254	61	37	33	43	77	134	134	67	285	172
2013	600	210	327	311	396	98	604	165	51	31	65	307	266
2014	245	372	153	326	128	466	65	40	44	137	122	251	194

Non-Exceedance Percentiles

03576250 - Limestone Creek near Athens, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	50	95	98	61	37	16	19	12	11	13	20	30	64
5th %	79	113	131	78	45	33	22	19	14	13	25	70	121
10th %	160	150	152	123	51	37	27	24	18	18	31	100	126
15th %	173	169	214	130	59	37	31	25	21	21	49	119	132
20th %	235	188	232	133	65	40	35	26	22	24	56	129	139
30th %	270	207	261	171	79	46	41	28	24	29	66	172	165
40th %	289	231	284	208	105	53	45	32	34	33	96	203	179
Median	323	270	335	233	131	70	50	39	43	48	112	222	203
60th %	369	354	423	305	145	81	58	41	54	81	140	274	237
70th %	446	413	462	333	229	103	79	52	62	106	206	343	247
80th %	559	460	553	388	292	154	92	58	104	135	234	483	263
90th %	668	696	610	436	402	253	176	114	182	171	333	581	296
Maximum	873	1,108	1,361	895	676	466	604	204	304	747	852	1,216	336
Average	373	349	393	275	187	109	83	54	71	107	162	322	206

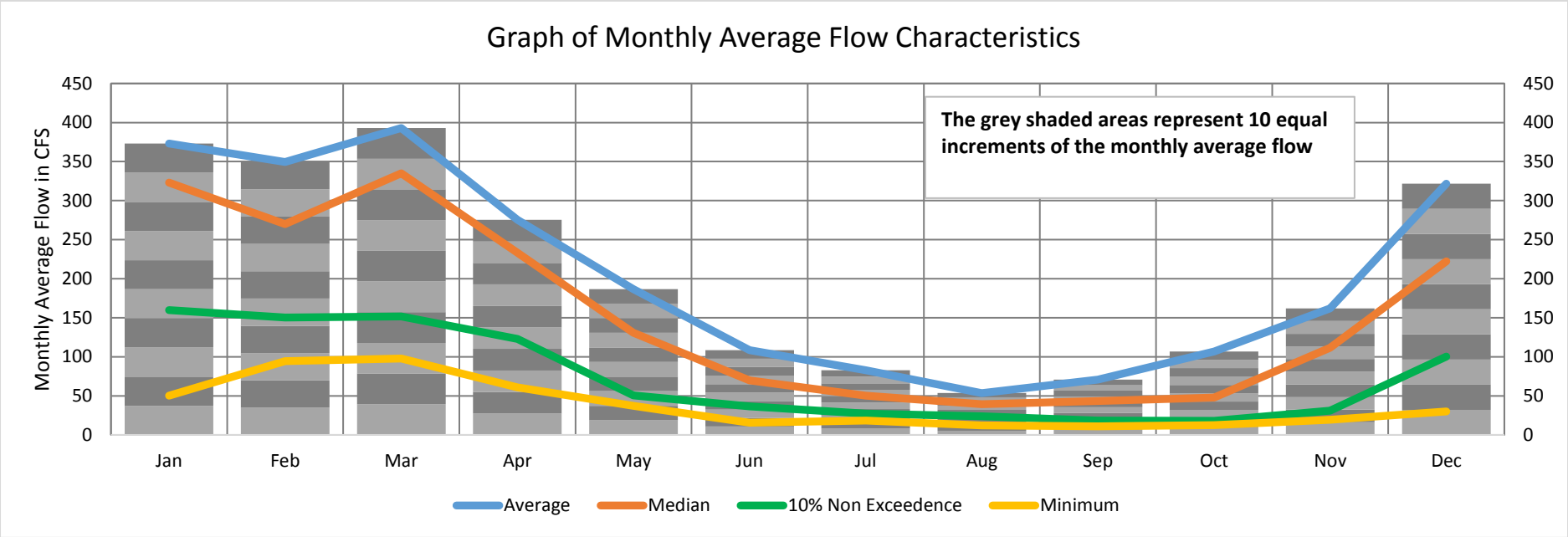
	Flows in CFS
Minimum	11.0
5th %	22
10th %	28
15th %	36
20th %	43
30th %	60
40th %	95
Median	134
60th %	191
70th %	251
80th %	334
90th %	476
Maximum	1,361
Average	207



Q10/Q50	0.21
Q10/Q90	0.06
	CFSM*
Qmin/DA	0.09
Q5/DA	0.18
Q10/DA	0.24
Q15/DA	0.30
Q20/DA	0.36
Q30/DA	0.50
Q40/DA	0.80
Q50/DA	1.13
Q60/DA	1.61
Q70/DA	2.11
Q80/DA	2.81
Q90/DA	4.00
Qmax/DA	11.44

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

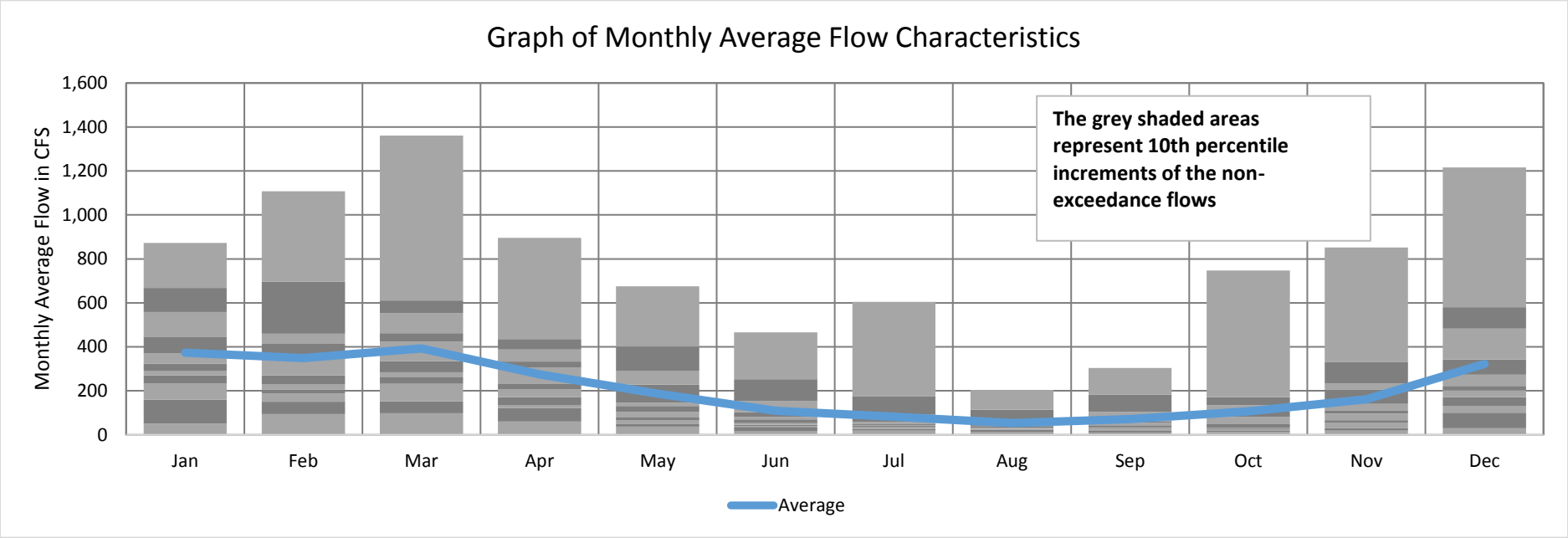
Site #: 03576250 Name: Limestone Creek near Athens, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	373	349	393	275	187	109	83	54	71	107	162	322
100%	873	1,108	1,361	895	676	466	604	204	304	747	852	1,216
98%	798	833	887	666	607	411	359	199	251	634	497	1,081
95%	698	755	691	561	529	379	222	167	212	438	383	945
90%	668	696	610	436	402	253	176	114	182	171	333	581
75%	519	435	492	345	264	135	85	53	79	122	227	431
50%	323	270	335	233	131	70	50	39	43	48	112	222
25%	251	193	250	158	74	43	38	27	23	27	59	163
10%	160	150	152	123	51	37	27	24	18	18	31	100
5%	79	113	131	78	45	33	22	19	14	13	25	70
2%	66	103	115	71	38	23	19	15	12	13	22	60
0%	50	95	98	61	37	16	19	12	11	13	20	30

Site #: 03576250 Name: Limestone Creek near Athens, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 119 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	373	349	393	275	187	109	83	54	71	107	162	322
100%	873	1,108	1,361	895	676	466	604	204	304	747	852	1,216
98%	798	833	887	666	607	411	359	199	251	634	497	1,081
95%	698	755	691	561	529	379	222	167	212	438	383	945
90%	668	696	610	436	402	253	176	114	182	171	333	581
75%	519	435	492	345	264	135	85	53	79	122	227	431
50%	323	270	335	233	131	70	50	39	43	48	112	222
25%	251	193	250	158	74	43	38	27	23	27	59	163
10%	160	150	152	123	51	37	27	24	18	18	31	100
5%	79	113	131	78	45	33	22	19	14	13	25	70
2%	66	103	115	71	38	23	19	15	12	13	22	60
0%	50	95	98	61	37	16	19	12	11	13	20	30

Monthly Flows (in CFS) for
03576400 - Piney Creek near Athens, Ala.

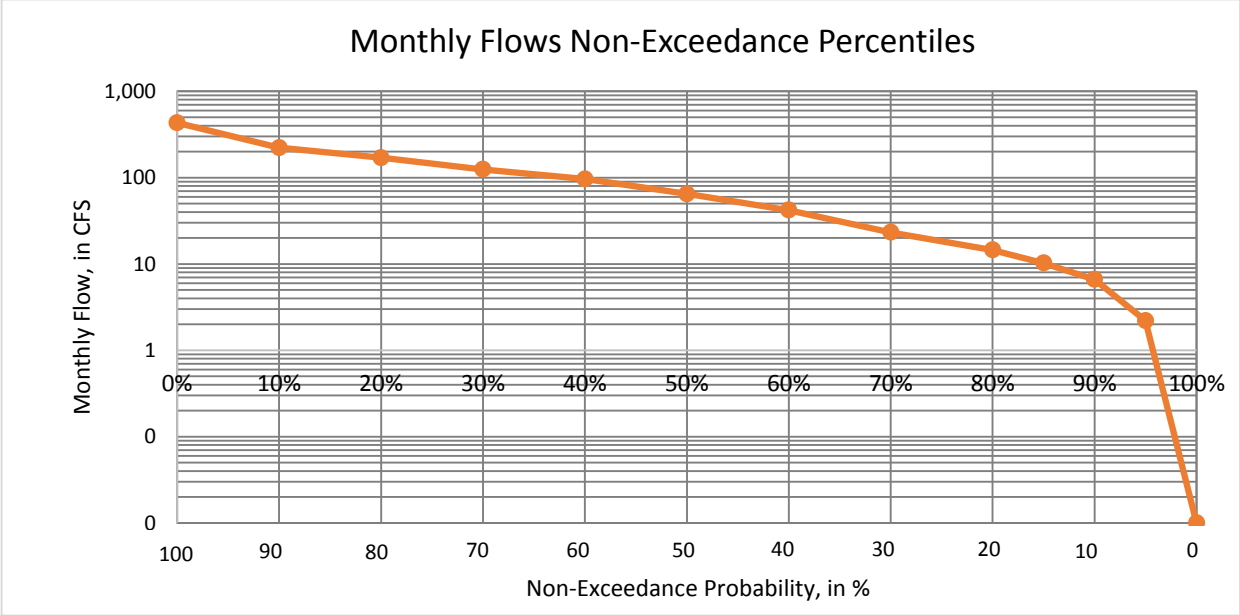
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	214	238	317	129	65	72	16	9	109	315	86	117	140
1976	209	113	147	59	137	87	113	5	8	42	51	113	90
1977	124	98	269	205	25	8	2	1	93	272	341	158	133
1978	163	41	168	53	148	45	6	4	2	0	0	63	58
1979	242	130	231	219	54	76	41	51	156	64	191	82	128
1980	180	97	431	183	178	15	3	2	1	3	44	25	97
1981	26	149	111	110	14	92	5	17	12	8	35	99	56
1982	294	202	147	141	39	10	14	35	6	5	33	219	95
1983	82	169	124	259	268	28	16	3	1	0	119	257	110
1984	140	99	147	191	219	7	9	19	0	35	105	108	90
1985	61	209	67	82	64	7	35	105	10	47	51	56	65
1986	31	174	148	31	23	28	15	2	16	27	174	154	68
1987	170	167	174	59	19	10	3	0	0	0	17	46	55
1988	180	57	43	103	11	2	13	11	84	25	146	89	64
1989	262	219	214	173	34	141	103	9	19	84	120	52	118
1990	292	393	245	111	62	17	7	2	1	3	14	411	129
1991	140	299	257	205	162	27	11	2	0	1	19	381	125
1992	144	102	120	78	13	79	42	9	19	13	169	209	83
1993	166	93	273	126	138	19	7	3	0	0	19	88	78
1994	194	317	298	173	33	23	22	18	6	53	88	117	111
1995	133	117	173	87	54	15	20	21	12	76	149	105	80
1996	247	116	291	204	37	22	19	23	89	37	109	239	119
1997	254	204	253	63	67	187	43	13	35	93	73	129	117
1998	336	271	208	197	68	23	12	67	9	8	12	103	109
1999	368	185	208	84	110	41	18	4	2	3	8	33	88
2000	80	83	136	272	28	15	5	6	3	2	17	86	61
2001	154	234	195	145	113	179	140	96	84	82	64	255	145
2002	271	105	213	89	159	16	28	8	25	45	116	221	109
2003	85	327	124	76	300	40	38	17	46	11	45	82	98
2004	105	329	221	64	35	121	84	23	42	57	188	390	137
2005	122	204	103	158	36	49	43	11	31	10	23	78	71
2006	184	109	63	103	91	18	6	9	5	10	47	32	56
2007	142	54	57	34	15	4	7	2	1	2	9	11	28
2008	22	77	112	108	23	23	15	23	8	20	11	263	59
2009	146	50	170	151	242	63	40	12	115	202	102	273	131
2010	216	188	127	63	83	36	22	16	7	19	57	58	74
2011	130	74	274	376	73	20	36	14	25	9	46	200	106
2012	307	114	123	27	15	13	18	36	65	64	31	137	79
2013	271	102	156	149	187	46	273	80	22	12	29	147	124
2014	119	176	74	156	62	217	29	16	18	66	58	121	92

Non-Exceedance Percentiles

03576400 - Piney Creek near Athens, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	22	41	43	27	11	2	2	0	0	0	0	11	28
5th %	31	54	63	34	14	7	3	2	0	0	9	32	56
10th %	78	72	73	58	15	8	5	2	1	1	12	45	58
15th %	84	82	110	62	23	10	6	2	1	2	17	56	60
20th %	116	96	119	64	25	14	7	3	2	3	18	62	65
30th %	132	102	126	84	35	17	12	6	6	8	30	85	77
40th %	143	114	147	103	48	21	15	9	8	11	45	101	86
Median	164	139	169	119	63	25	18	12	12	20	51	115	94
60th %	182	175	200	147	70	38	22	16	19	36	68	132	107
70th %	215	203	216	162	111	47	35	18	27	48	103	171	113
80th %	256	222	254	192	150	77	41	23	49	65	119	224	124
90th %	293	301	275	206	190	123	86	53	89	85	170	264	131
Maximum	368	393	431	376	300	217	273	105	156	315	341	411	145
Average	175	162	180	132	88	49	34	20	30	46	75	145	94

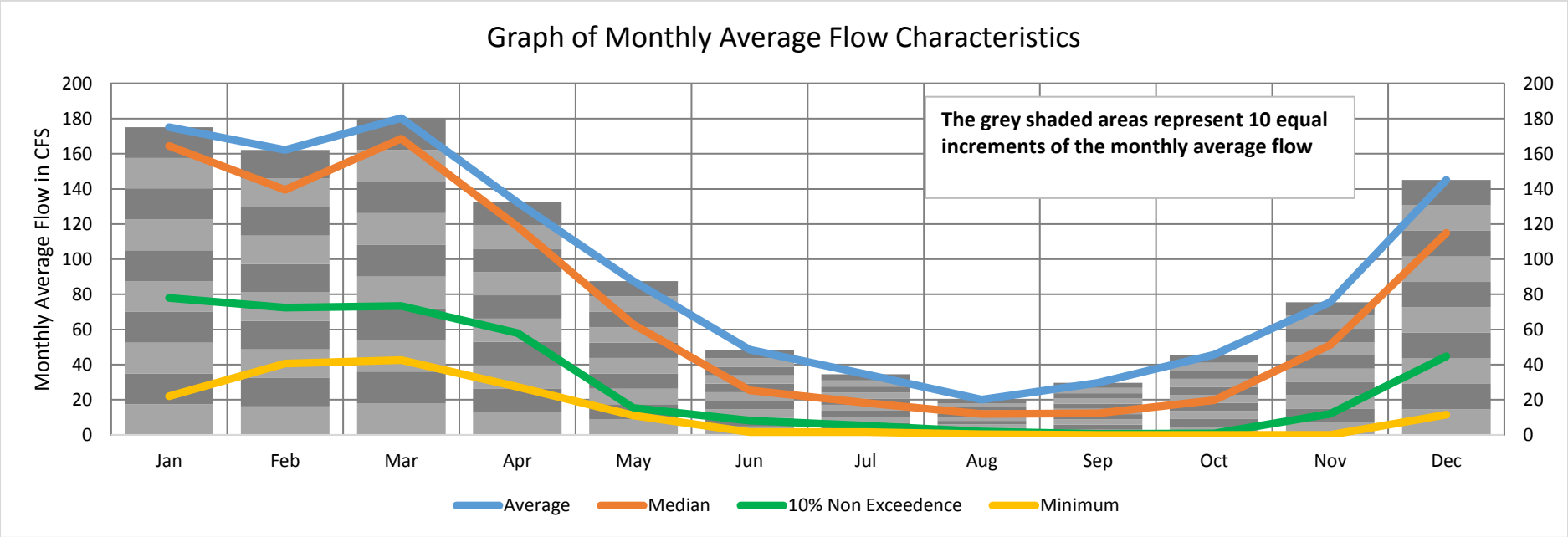
	Flows in CFS
Minimum	0.0
5th %	2
10th %	7
15th %	10
20th %	14
30th %	23
40th %	42
Median	65
60th %	96
70th %	124
80th %	170
90th %	222
Maximum	431
Average	95



Q10/Q50	0.10
Q10/Q90	0.03
	CFSM*
Qmin/DA	0.00
Q5/DA	0.04
Q10/DA	0.12
Q15/DA	0.18
Q20/DA	0.26
Q30/DA	0.42
Q40/DA	0.75
Q50/DA	1.16
Q60/DA	1.73
Q70/DA	2.23
Q80/DA	3.04
Q90/DA	3.98
Qmax/DA	7.72

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

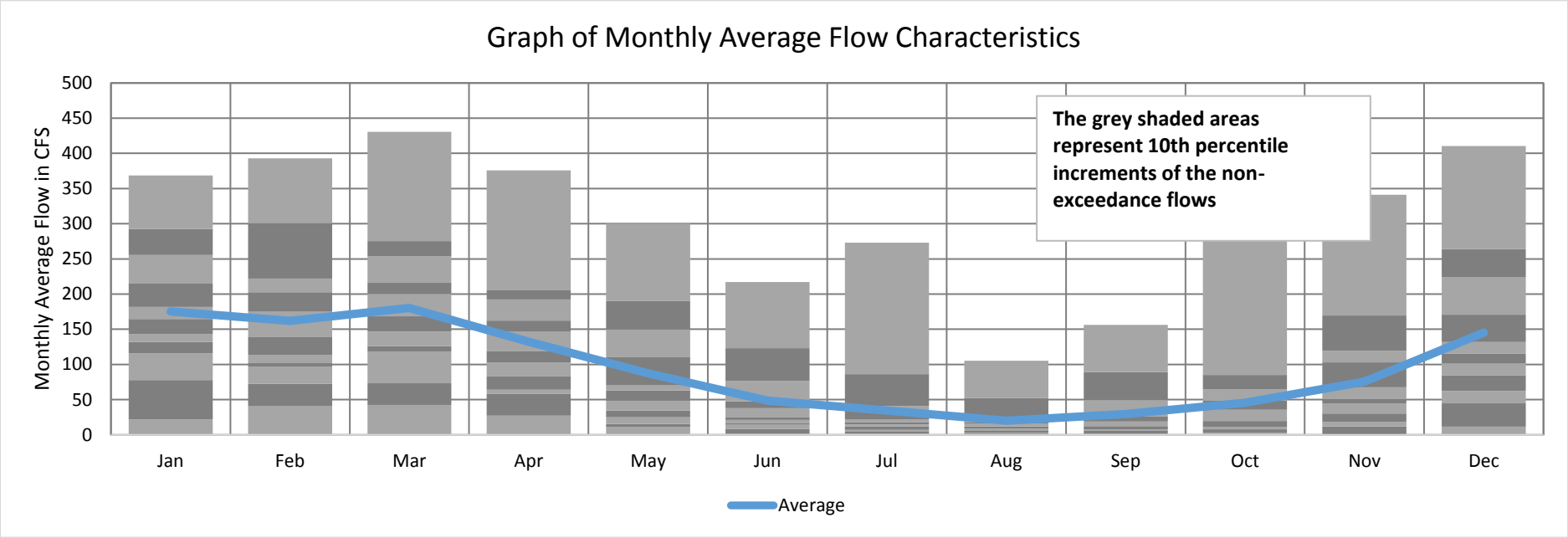
Site #: 03576400 Name: Piney Creek near Athens, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	175	162	180	132	88	49	34	20	30	46	75	145
100%	368	393	431	376	300	217	273	105	156	315	341	411
98%	343	343	342	295	275	194	169	98	124	282	224	394
95%	308	327	299	259	243	180	114	81	109	205	188	382
90%	293	301	275	206	190	123	86	53	89	85	170	264
75%	243	206	235	175	137	65	38	21	37	59	111	211
50%	164	139	169	119	63	25	18	12	12	20	51	115
25%	124	99	123	78	32	15	8.7	3.6	2.9	4.9	22	81
10%	78	72	73	58	15	8.1	5.3	2.0	0.6	0.8	12	45
5%	31	54	63	34	14	6.5	2.8	1.9	0.4	0.0	8.8	32
2%	25	48	54	30	13	3.3	2.3	1.1	0.2	0.0	6.0	22
0%	22	41	43	27	11	1.6	1.6	0.4	0.0	0.0	0.0	11

Site #: 03576400 Name: Piney Creek near Athens, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 56 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	175	162	180	132	88	49	34	20	30	46	75	145
100%	368	393	431	376	300	217	273	105	156	315	341	411
98%	343	343	342	295	275	194	169	98	124	282	224	394
95%	308	327	299	259	243	180	114	81	109	205	188	382
90%	293	301	275	206	190	123	86	53	89	85	170	264
75%	243	206	235	175	137	65	38	21	37	59	111	211
50%	164	139	169	119	63	25	18	12	12	20	51	115
25%	124	99	123	78	32	15	8.7	3.6	2.9	4.9	22	81
10%	78	72	73	58	15	8.1	5.3	2.0	0.6	0.8	12	45
5%	31	54	63	34	14	6.5	2.8	1.9	0.4	0.0	8.8	32
2%	25	48	54	30	13	3.3	2.3	1.1	0.2	0.0	6.0	22
0%	22	41	43	27	11	1.6	1.6	0.4	0.0	0.0	0.0	11

Monthly Flows (in CFS) for
03576500 - Flint Creek near Falkville, Ala.

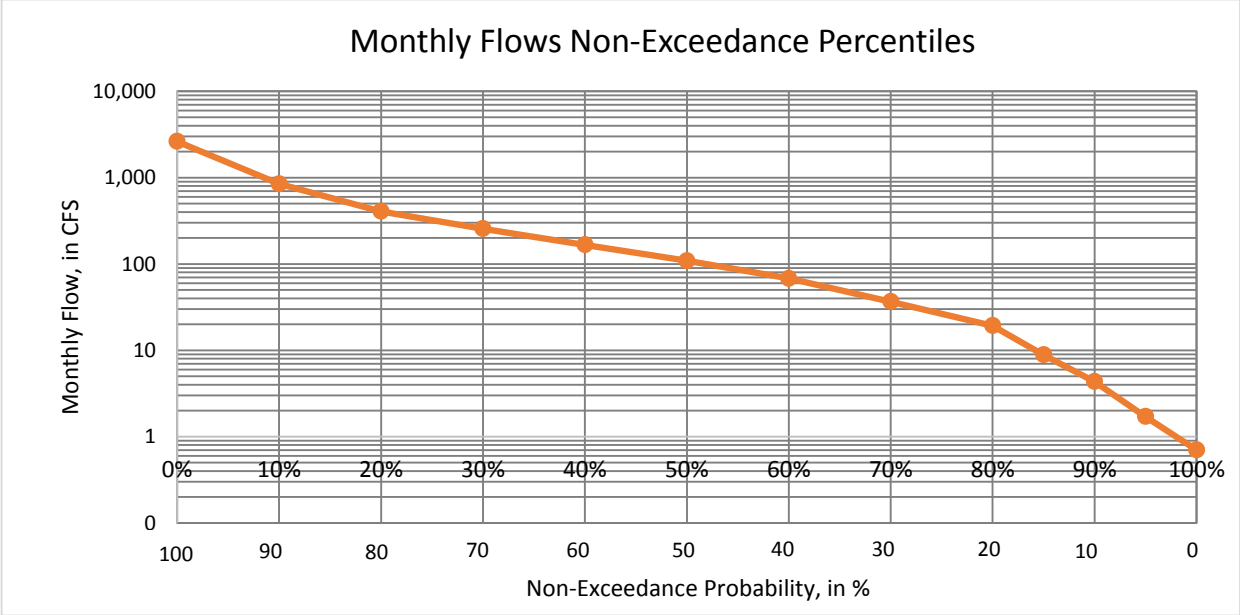
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	459	634	704	176	145	47	141	90	52	199	74	127	236
1976	387	216	377	100	152	60	56	19	14	5	12	198	133
1977	132	133	921	456	21	3	2	2	98	215	364	164	210
1978	279	73	181	45	125	26	5	11	2	1	1	36	66
1979	401	198	505	821	99	45	20	21	98	64	173	96	211
1980	271	180	1,573	368	255	22	3	7	153	127	125	101	267
1981	31	223	201	191	20	60	5	10	6	3	6	108	71
1982	1,009	411	148	410	80	24	11	3	1	1	5	306	200
1983	120	309	298	479	312	70	8	2	1	1	54	505	179
1984	224	135	220	299	450	19	6	22	1	32	87	121	135
1985	62	375	88	79	133	14	177	99	16	27	62	97	101
1986	52	137	144	25	33	26	3	2	8	25	96	110	55
1987	265	349	352	68	20	31	90	4	4	1	4	40	101
1988	196	123	58	133	20	2	3	2	90	52	123	100	74
1989	565	476	422	234	45	246	345	27	35	71	102	121	223
1990	794	1,598	406	77	98	22	14	1	2	1	4	259	265
1991	193	440	285	447	467	49	17	5	7	1	7	207	175
1992	167	315	215	95	22	46	25	40	42	99	1,240	1,571	323
1993	1,216	659	2,164	904	995	137	63	33	11	8	137	619	581
1994	1,445	2,618	2,419	1,271	235	169	157	132	55	166	319	758	801
1995	875	1,008	1,122	301	269	80	46	41	57	661	967	1,053	538
1996	2,197	989	2,308	1,499	348	128	64	149	332	120	559	1,094	816
1997	1,501	1,067	2,046	567	759	1,263	106	34	70	630	194	513	729
1998	2,302	1,593	1,386	1,497	345	296	59	42	13	28	26	466	666
1999	2,113	1,070	1,251	446	927	256	359	43	11	2	4	6	540
2000	73	68	292	434	22	11	4	2	2	1	85	98	91
2001	200	328	622	211	40	59	38	53	105	36	28	311	169
2002	327	181	244	125	198	27	37	11	31	84	234	309	151
2003	124	637	245	167	569	72	38	18	19	5	21	59	162
2004	164	525	212	39	27	42	44	5	47	55	413	533	173
2005	108	151	135	238	26	72	97	19	25	3	20	97	82
2006	216	197	130	184	150	7	2	2	22	88	93	67	96
2007	200	87	60	36	9	1	2	1	5	1	2	2	34
2008	16	128	202	63	74	20	6	14	2	4	3	295	69
2009	596	139	318	231	531	61	20	26	101	255	121	391	234
2010	312	261	279	204	281	31	9	8	1	2	5	23	117
2011	160	122	606	556	53	17	25	4	200	14	702	1,458	328
2012	2,543	709	774	131	64	170	135	95	357	307	136	842	524
2013	2,255	1,192	1,306	1,196	1,280	215	615	367	111	31	122	1,097	817
2014	992	1,564	435	965	482	337	257	353	82	432	402	938	597

Non-Exceedance Percentiles

03576500 - Flint Creek near Falkville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	16	68	58	25	9	1	2	1	1	1	1	2	34
5th %	50	87	87	39	20	3	2	2	1	1	3	22	65
10th %	72	123	134	62	21	11	3	2	2	1	4	40	70
15th %	118	133	147	76	22	17	4	2	2	1	5	66	81
20th %	131	136	197	92	27	19	5	3	4	2	6	96	95
30th %	185	181	219	132	51	26	9	5	7	4	21	101	128
40th %	210	220	283	188	91	31	19	10	13	11	59	121	166
Median	275	321	335	232	139	46	31	19	23	29	90	202	190
60th %	392	423	427	328	213	60	45	23	44	53	121	307	227
70th %	655	635	646	446	290	72	63	36	61	85	136	478	284
80th %	1,051	992	1,148	558	454	143	112	45	98	135	251	647	539
90th %	2,121	1,229	1,620	988	588	247	185	102	116	260	428	1,057	672
Maximum	2,543	2,618	2,419	1,499	1,280	1,263	615	367	357	661	1,240	1,571	817
Average	639	540	641	394	254	107	78	45	57	96	178	382	283

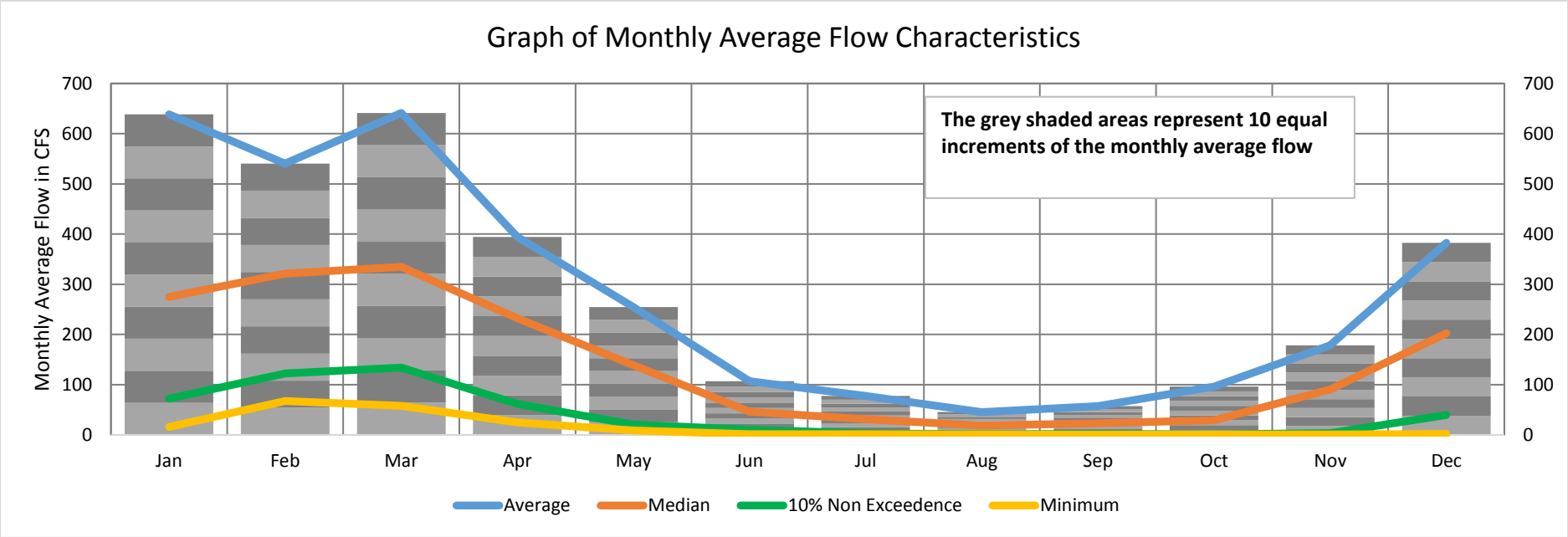
	Flows in CFS
Minimum	0.7
5th %	2
10th %	4
15th %	9
20th %	19
30th %	37
40th %	68
Median	109
60th %	166
70th %	256
80th %	407
90th %	845
Maximum	2,618
Average	284



Q10/Q50	0.04
Q10/Q90	0.01
	CFSM*
Qmin/DA	0.01
Q5/DA	0.02
Q10/DA	0.05
Q15/DA	0.10
Q20/DA	0.22
Q30/DA	0.42
Q40/DA	0.79
Q50/DA	1.26
Q60/DA	1.93
Q70/DA	2.97
Q80/DA	4.71
Q90/DA	9.79
Qmax/DA	30.34

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

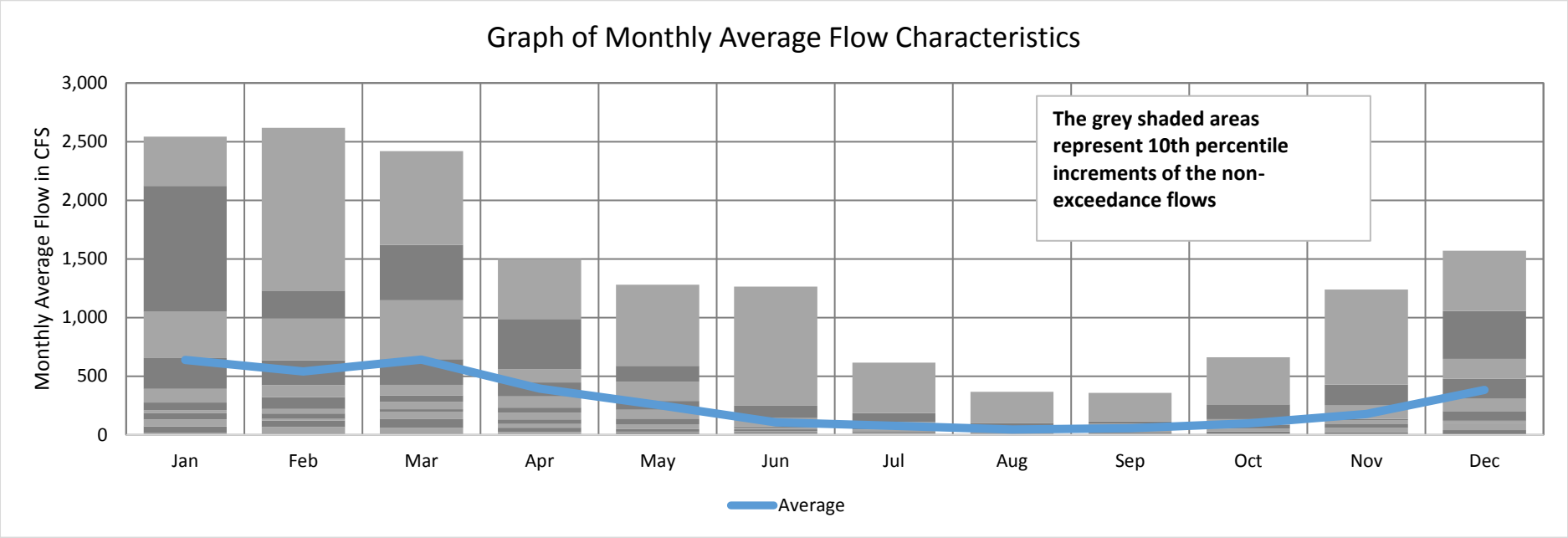
Site #: 03576500 Name: Flint Creek near Falkville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	639	540	641	394	254	107	78	45	57	96	178	382
100%	2,543	2,618	2,419	1,499	1,280	1,263	615	367	357	661	1,240	1,571
98%	2,355	1,823	2,332	1,497	1,058	540	415	356	337	637	1,027	1,483
95%	2,257	1,593	2,171	1,282	930	298	346	159	206	441	715	1,115
90%	2,121	1,229	1,620	988	588	247	185	102	116	260	428	1,057
75%	904	671	811	462	346	92	92	41	84	104	178	518
50%	275	321	335	232	139	46	31	19	23	29	90	202
25%	163	148	210	119	38	22	6.2	4.1	5.8	2.4	11	98
10%	72	123	134	62	21	11	3.1	1.6	1.8	1.2	3.8	40
5%	50	87	87	39	20	3.1	2.2	1.5	1.3	0.9	3.3	22
2%	28	72	60	33	17	1.5	1.9	1.3	1.1	0.8	1.4	5.3
0%	16	68	58	25	9.0	1.2	1.5	0.8	0.7	0.8	0.8	1.7

Site #: 03576500 Name: Flint Creek near Falkville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 86 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	639	540	641	394	254	107	78	45	57	96	178	382
100%	2,543	2,618	2,419	1,499	1,280	1,263	615	367	357	661	1,240	1,571
98%	2,355	1,823	2,332	1,497	1,058	540	415	356	337	637	1,027	1,483
95%	2,257	1,593	2,171	1,282	930	298	346	159	206	441	715	1,115
90%	2,121	1,229	1,620	988	588	247	185	102	116	260	428	1,057
75%	904	671	811	462	346	92	92	41	84	104	178	518
50%	275	321	335	232	139	46	31	19	23	29	90	202
25%	163	148	210	119	38	22	6.2	4.1	5.8	2.4	11	98
10%	72	123	134	62	21	11	3.1	1.6	1.8	1.2	3.8	40
5%	50	87	87	39	20	3.1	2.2	1.5	1.3	0.9	3.3	22
2%	28	72	60	33	17	1.5	1.9	1.3	1.1	0.8	1.4	5.3
0%	16	68	58	25	9.0	1.2	1.5	0.8	0.7	0.8	0.8	1.7

Monthly Flows (in CFS) for
03577000 - West Flint Creek near Oakville, Ala.

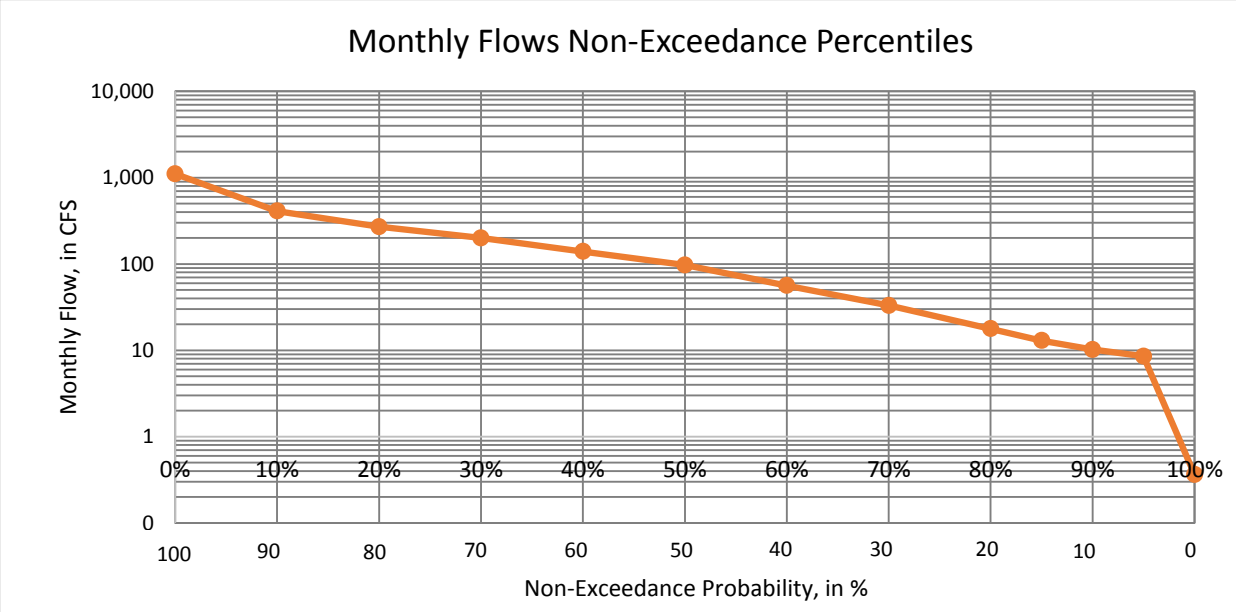
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	448	575	622	195	163	56	158	103	61	219	85	144	235
1976	390	236	381	115	170	70	66	27	22	13	20	218	144
1977	149	151	756	445	29	11	10	9	112	235	371	183	205
1978	295	85	201	54	142	34	13	19	10	8	8	44	76
1979	401	218	483	696	113	54	28	29	112	75	192	110	209
1980	288	200	1,093	374	273	30	11	15	171	144	142	116	239
1981	39	243	221	211	28	70	13	18	14	10	14	123	82
1982	807	410	166	409	92	32	19	11	7	9	13	320	190
1983	136	323	313	463	325	81	16	10	8	8	64	483	185
1984	244	152	240	314	441	27	14	30	9	41	100	138	146
1985	72	380	101	91	150	22	197	113	24	35	72	111	113
1986	61	154	162	33	41	35	11	10	16	33	110	125	65
1987	283	358	360	79	28	39	103	12	12	8	12	49	111
1988	216	139	68	150	28	9	10	9	103	62	139	114	87
1989	527	461	418	253	54	265	354	35	44	83	116	137	228
1990	679	1,104	405	89	113	30	22	9	9	8	12	277	225
1991	213	433	301	438	454	58	25	13	15	8	15	227	182
1992	186	328	235	109	30	55	33	49	51	6	204	256	127
1993	265	176	405	192	186	9	4	3	7	2	57	149	121
1994	418	689	565	194	118	17	87	12	3	46	116	245	207
1995	184	472	333	262	73	33	4	0	3	123	203	245	159
1996	484	232	455	185	40	23	27	18	150	51	241	329	186
1997	464	392	430	60	271	896	107	22	14	138	59	188	252
1998	617	496	284	158	106	26	47	56	1	30	255	314	198
1999	492	221	273	138	66	17	11	16	11	9	23	75	112
2000	322	598	581	334	76	26	56	29	21	85	83	244	202
2001	194	306	328	114	50	44	18	17	13	125	282	233	143
2002	463	238	380	168	59	25	42	36	97	41	128	269	162
2003	450	361	334	85	202	652	131	23	46	182	103	144	225
2004	576	430	342	362	76	52	22	16	8	8	15	111	167
2005	440	274	246	165	105	156	75	12	9	9	12	14	126
2006	85	78	307	428	30	19	12	9	10	8	98	112	99
2007	220	339	566	231	49	69	46	62	120	44	36	324	175
2008	339	201	263	141	218	35	45	20	39	97	254	323	165
2009	141	577	264	187	529	84	47	26	27	13	29	69	164
2010	183	497	232	47	35	51	53	13	56	65	411	503	177
2011	123	170	152	257	34	83	111	27	33	11	28	111	94
2012	236	217	147	204	168	15	9	10	30	101	107	78	110
2013	220	100	70	44	17	8	9	8	13	8	9	9	43
2014	24	145	222	74	85	28	14	22	10	12	11	310	80

Non-Exceedance Percentiles

03577000 - West Flint Creek near Oakville, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	24	78	68	33	17	8	4	0	1	2	8	9	43
5th %	60	100	100	47	28	9	9	7	3	7	11	42	76
10th %	83	145	151	59	29	15	10	9	7	8	12	67	82
15th %	134	152	166	78	30	17	11	9	8	8	13	77	93
20th %	148	167	217	88	35	22	11	10	9	8	15	110	108
30th %	192	212	238	114	50	26	14	12	10	9	26	114	119
40th %	220	234	269	155	70	30	19	14	13	12	59	132	144
Median	274	290	310	186	88	34	26	17	15	34	84	146	163
60th %	329	347	337	199	113	47	43	20	25	45	105	222	176
70th %	425	397	388	254	154	55	49	26	40	68	120	245	187
80th %	463	463	435	339	190	70	77	29	57	98	194	284	205
90th %	532	575	568	429	279	91	113	49	112	139	254	323	225
Maximum	807	1,104	1,093	696	529	896	354	113	171	235	411	503	252
Average	309	329	343	214	132	84	52	24	38	55	106	189	155

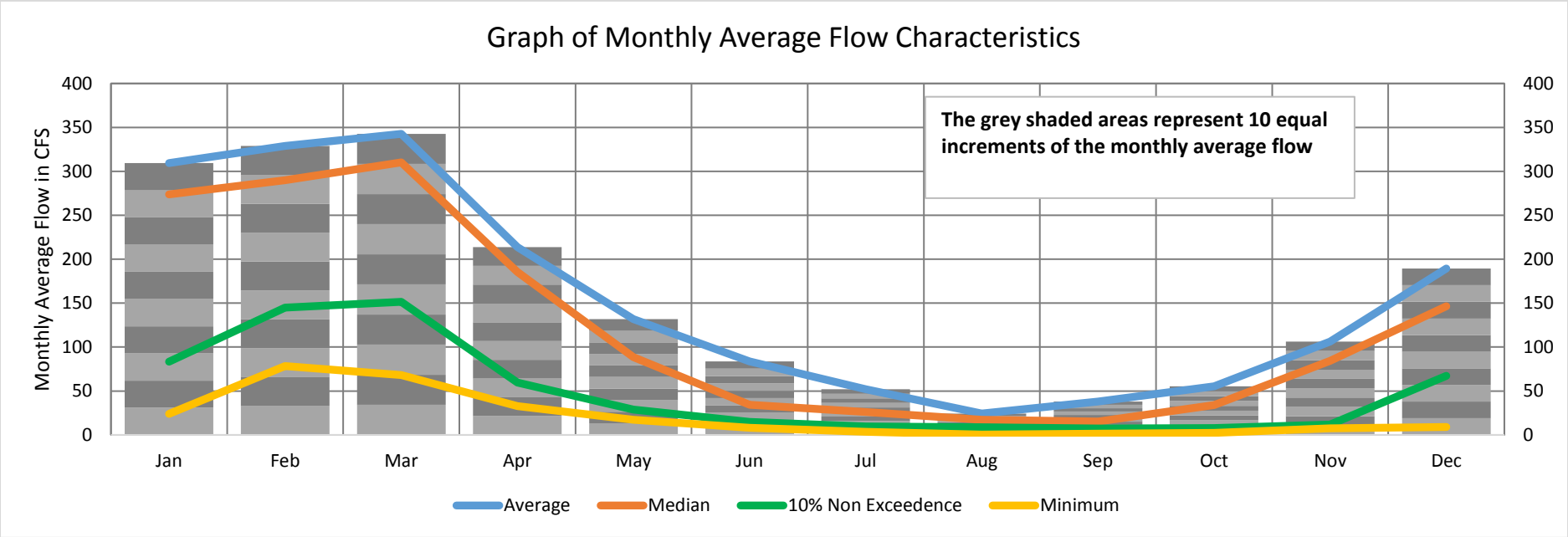
	Flows in CFS
Minimum	0.4
5th %	9
10th %	10
15th %	13
20th %	18
30th %	33
40th %	56
Median	97
60th %	139
70th %	200
80th %	270
90th %	409
Maximum	1,104
Average	156



Q10/Q50	0.11
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.00
Q5/DA	0.10
Q10/DA	0.12
Q15/DA	0.15
Q20/DA	0.20
Q30/DA	0.38
Q40/DA	0.64
Q50/DA	1.11
Q60/DA	1.59
Q70/DA	2.28
Q80/DA	3.08
Q90/DA	4.67
Qmax/DA	12.61

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

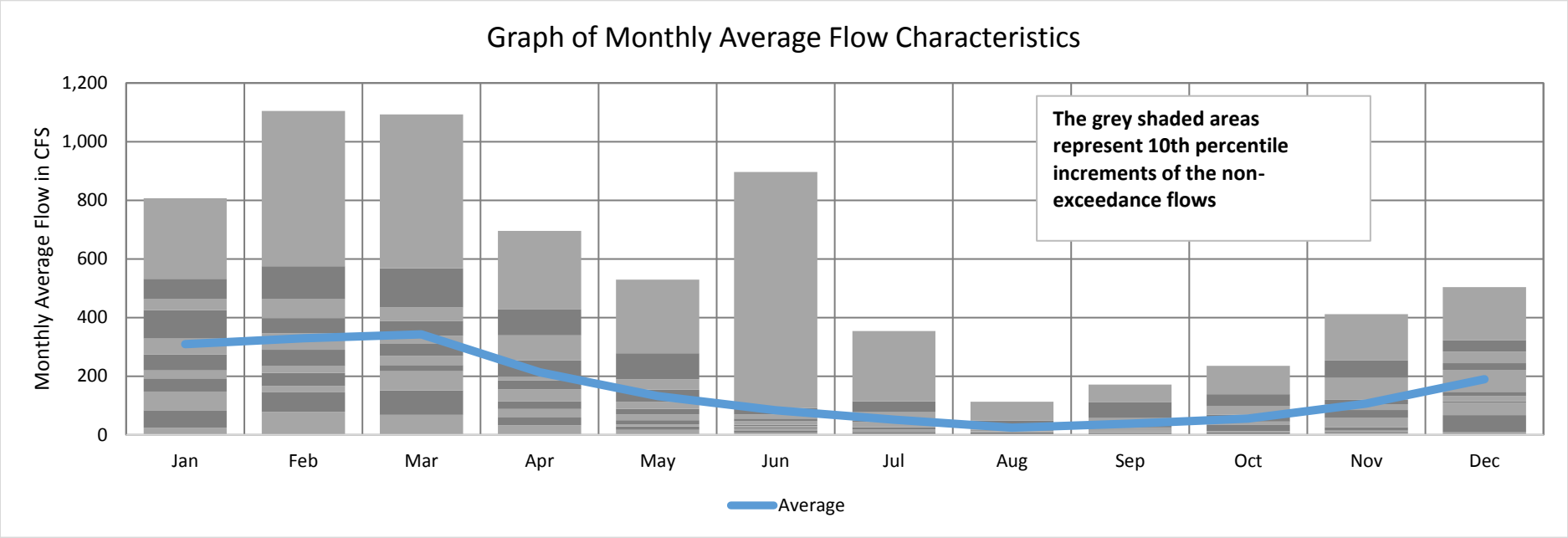
Site #: 03577000 Name: West Flint Creek near Oakville, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	309	329	343	214	132	84	52	24	38	55	106	189
100%	807	1,104	1,093	696	529	896	354	113	171	235	411	503
98%	707	781	830	514	470	706	232	105	155	223	380	487
95%	620	602	628	446	441	284	160	64	121	184	286	337
90%	532	575	568	429	279	91	113	49	112	139	254	323
75%	448	431	408	275	169	61	59	27	47	83	140	259
50%	274	290	310	186	88	34	26	17	15	34	84	146
25%	184	194	230	105	41	24	12	11	9.5	8.5	19	111
10%	83	145	151	59	29	15	9.7	8.8	7.3	7.8	12	67
5%	60	100	100	47	28	9.3	8.5	7.4	3.3	7.4	11	42
2%	36	83	70	42	25	8.8	3.6	2.6	2.6	5.3	8.6	13
0%	24	78	68	33	17	8.2	3.6	0.4	1.3	2.2	7.6	9.1

Site #: 03577000 Name: West Flint Creek near Oakville, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 88 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	309	329	343	214	132	84	52	24	38	55	106	189
100%	807	1,104	1,093	696	529	896	354	113	171	235	411	503
98%	707	781	830	514	470	706	232	105	155	223	380	487
95%	620	602	628	446	441	284	160	64	121	184	286	337
90%	532	575	568	429	279	91	113	49	112	139	254	323
75%	448	431	408	275	169	61	59	27	47	83	140	259
50%	274	290	310	186	88	34	26	17	15	34	84	146
25%	184	194	230	105	41	24	12	11	9.5	8.5	19	111
10%	83	145	151	59	29	15	9.7	8.8	7.3	7.8	12	67
5%	60	100	100	47	28	9.3	8.5	7.4	3.3	7.4	11	42
2%	36	83	70	42	25	8.8	3.6	2.6	2.6	5.3	8.6	13
0%	24	78	68	33	17	8.2	3.6	0.4	1.3	2.2	7.6	9.1

Monthly Flows (in CFS) for

03584600 - Elk River at Prospect, Tenn. (represents streamflow for 06030004)

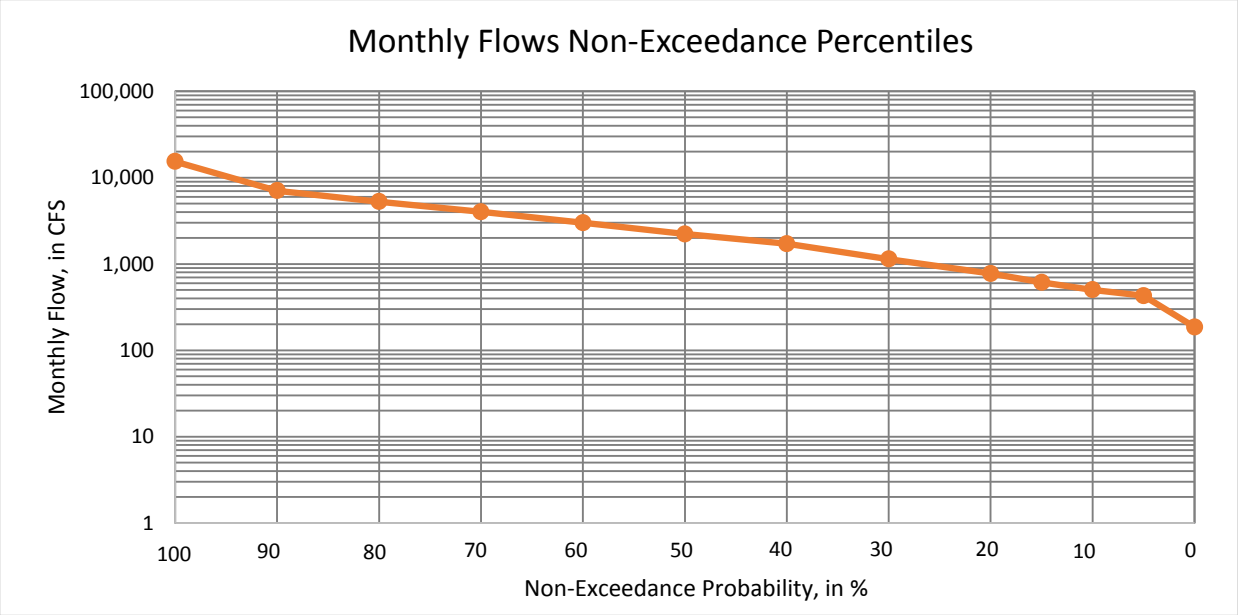
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	8,812	5,523	13,360	4,312	3,695	1,801	780	660	2,045	8,699	5,065	4,185	4,924
1976	6,035	4,481	3,684	2,137	1,959	1,777	1,583	608	851	2,934	2,427	2,822	2,602
1977	4,069	3,067	9,048	8,912	1,573	853	526	446	1,437	3,625	8,888	6,604	4,085
1978	4,407	2,072	4,735	795	4,948	2,338	1,097	613	475	613	1,191	4,376	2,319
1979	10,350	4,823	5,755	7,047	2,549	2,753	1,215	1,309	4,389	2,777	7,138	4,028	4,500
1980	4,625	2,706	13,360	5,868	3,958	997	890	545	443	465	1,309	1,256	3,048
1981	799	2,018	1,635	1,773	579	974	502	480	479	551	769	2,685	1,097
1982	8,321	5,404	4,063	2,863	1,581	552	791	1,064	733	622	2,015	7,315	2,939
1983	4,270	4,993	3,605	10,220	9,806	3,116	1,366	792	432	545	3,238	9,227	4,296
1984	3,674	2,726	4,294	3,737	8,385	899	581	926	495	1,803	4,901	3,789	3,025
1985	2,647	6,377	1,464	1,158	1,106	773	528	1,364	723	884	2,048	2,411	1,759
1986	980	3,244	2,785	728	1,370	1,314	565	303	758	1,011	7,159	8,655	2,398
1987	3,718	5,420	4,916	1,937	624	375	457	241	848	209	619	2,278	1,783
1988	4,082	2,659	1,506	2,825	445	201	341	275	353	304	2,924	3,628	1,621
1989	9,756	8,656	7,820	5,465	1,265	8,011	6,260	1,205	2,094	6,442	2,861	2,524	5,175
1990	7,163	12,640	6,586	1,730	2,534	1,012	745	291	604	817	1,187	15,320	4,184
1991	6,750	13,360	9,476	6,781	5,100	2,129	636	443	339	434	957	14,260	5,015
1992	5,249	2,818	4,526	1,795	559	1,179	1,293	1,166	3,037	1,199	4,963	5,396	2,765
1993	5,412	2,442	5,598	3,625	3,451	1,599	884	564	407	475	1,707	3,884	2,512
1994	6,501	13,680	11,110	8,493	1,382	999	1,256	1,008	659	2,554	6,503	4,966	4,862
1995	1,988	1,713	3,378	452	472	599	882	1,726	733	5,440	9,809	6,632	2,827
1996	7,814	4,619	4,006	3,264	1,819	1,442	724	2,441	1,722	5,021	7,147	7,034	3,921
1997	5,424	2,973	6,952	1,825	1,744	8,158	2,116	1,112	1,985	9,255	8,162	2,509	4,355
1998	5,396	2,304	4,981	6,342	2,517	4,870	1,020	2,088	1,956	2,405	3,256	5,015	3,516
1999	7,174	6,149	6,056	570	1,464	1,728	3,381	1,976	599	1,334	3,514	3,027	3,072
2000	1,564	430	1,939	6,921	910	1,997	1,021	2,225	1,111	2,527	3,988	5,723	2,536
2001	2,637	5,017	5,937	625	1,128	1,560	2,253	3,928	2,148	3,503	4,020	8,227	3,417
2002	8,202	4,715	3,069	4,532	3,905	1,238	1,559	1,182	1,441	3,203	4,025	7,232	3,693
2003	2,900	7,692	6,841	571	11,721	1,996	5,302	1,964	1,076	1,215	2,321	3,590	3,928
2004	2,788	9,561	6,184	1,885	904	4,553	4,302	1,782	2,733	3,312	5,480	14,010	4,764
2005	5,294	4,576	2,221	4,487	1,049	1,124	1,030	715	1,194	1,094	2,012	2,712	2,275
2006	6,294	3,539	2,184	2,587	2,088	1,142	500	370	353	803	2,363	1,609	1,977
2007	4,355	1,293	1,797	914	492	286	329	282	186	188	301	532	915
2008	629	2,787	3,438	4,511	1,281	918	531	613	332	628	862	6,586	1,922
2009	4,645	1,204	3,928	4,742	6,617	590	643	511	2,953	4,464	3,454	6,571	3,382
2010	5,879	6,920	3,251	1,417	3,460	948	441	352	287	461	1,750	3,149	2,336
2011	3,027	1,982	6,252	9,488	3,464	1,414	1,397	477	1,243	703	3,156	8,053	3,395
2012	7,125	3,951	2,739	840	469	295	515	435	945	2,004	2,026	5,307	2,220
2013	8,399	4,895	3,756	5,288	6,391	2,561	4,688	1,893	491	880	2,070	4,587	3,830
2014	3,255	4,800	2,117	2,687	2,346	4,002	689	837	584	2,480	3,744	5,296	2,719

Non-Exceedance Percentiles

03584600 - Elk River at Prospect, Tenn. (represents streamflow for 06030004)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	629	430	1,464	452	445	201	329	241	186	188	301	532	915
5th %	971	1,289	1,629	571	472	294	436	282	329	299	762	1,591	1,594
10th %	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398	1,781
15th %	2,645	2,064	2,174	833	617	598	513	368	399	473	1,190	2,522	1,969
20th %	2,877	2,414	2,635	1,109	909	837	527	441	441	550	1,627	2,707	2,264
30th %	3,705	2,769	3,340	1,788	1,224	966	620	502	494	681	2,023	3,458	2,478
40th %	4,321	3,173	3,727	2,057	1,431	1,079	736	611	637	883	2,346	3,970	2,747
Median	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776	3,036
60th %	5,417	4,809	4,942	3,967	2,414	1,576	1,025	1,030	998	2,164	3,478	5,343	3,404
70th %	6,356	5,133	5,973	4,595	3,454	1,859	1,267	1,189	1,301	2,621	4,022	6,591	3,857
80th %	7,165	6,195	6,637	5,963	3,916	2,383	1,564	1,737	1,962	3,350	5,148	7,249	4,206
90th %	8,329	8,747	9,091	7,192	6,414	4,057	3,473	1,987	2,206	5,063	7,149	8,712	4,774
Maximum	10,350	13,680	13,360	10,220	11,721	8,158	6,260	3,928	4,389	9,255	9,809	15,320	5,175
Average	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425	3,148

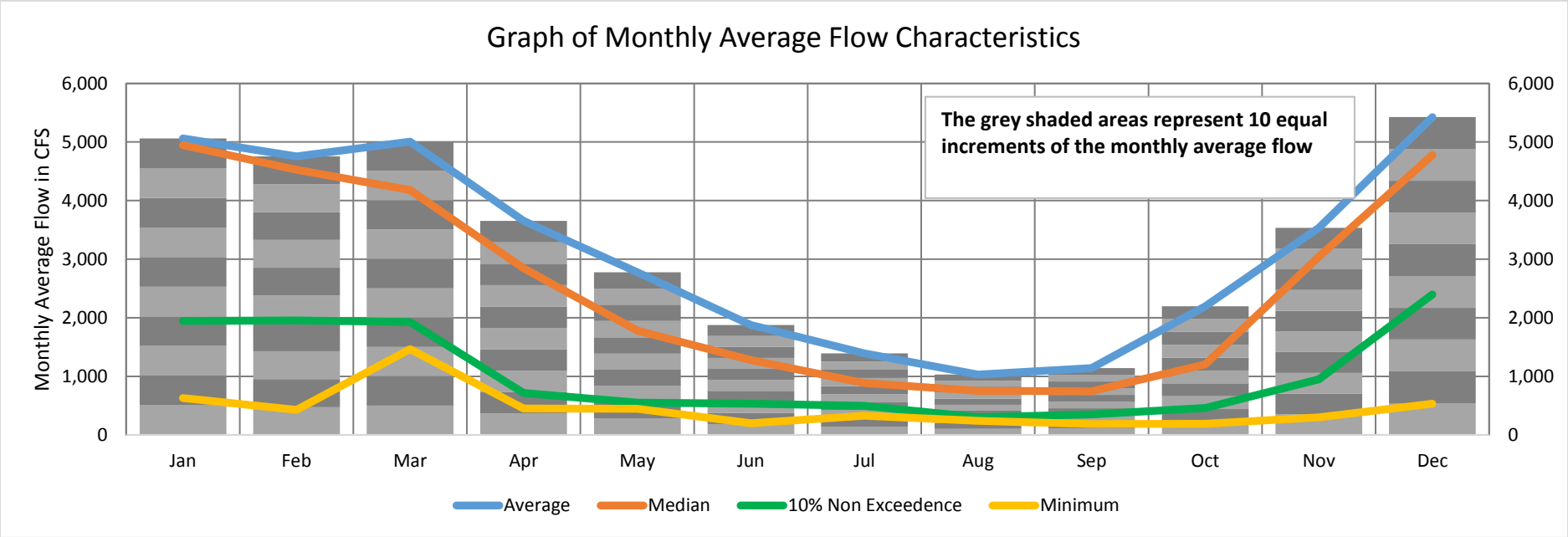
	Flows in CFS
Minimum	186.1
5th %	429
10th %	502
15th %	612
20th %	773
30th %	1,138
40th %	1,711
Median	2,223
60th %	2,995
70th %	4,011
80th %	5,257
90th %	7,055
Maximum	15,320
Average	3,154



Q10/Q50	0.23
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.10
Q5/DA	0.24
Q10/DA	0.28
Q15/DA	0.34
Q20/DA	0.43
Q30/DA	0.63
Q40/DA	0.95
Q50/DA	1.23
Q60/DA	1.66
Q70/DA	2.22
Q80/DA	2.91
Q90/DA	3.91
Qmax/DA	8.49

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

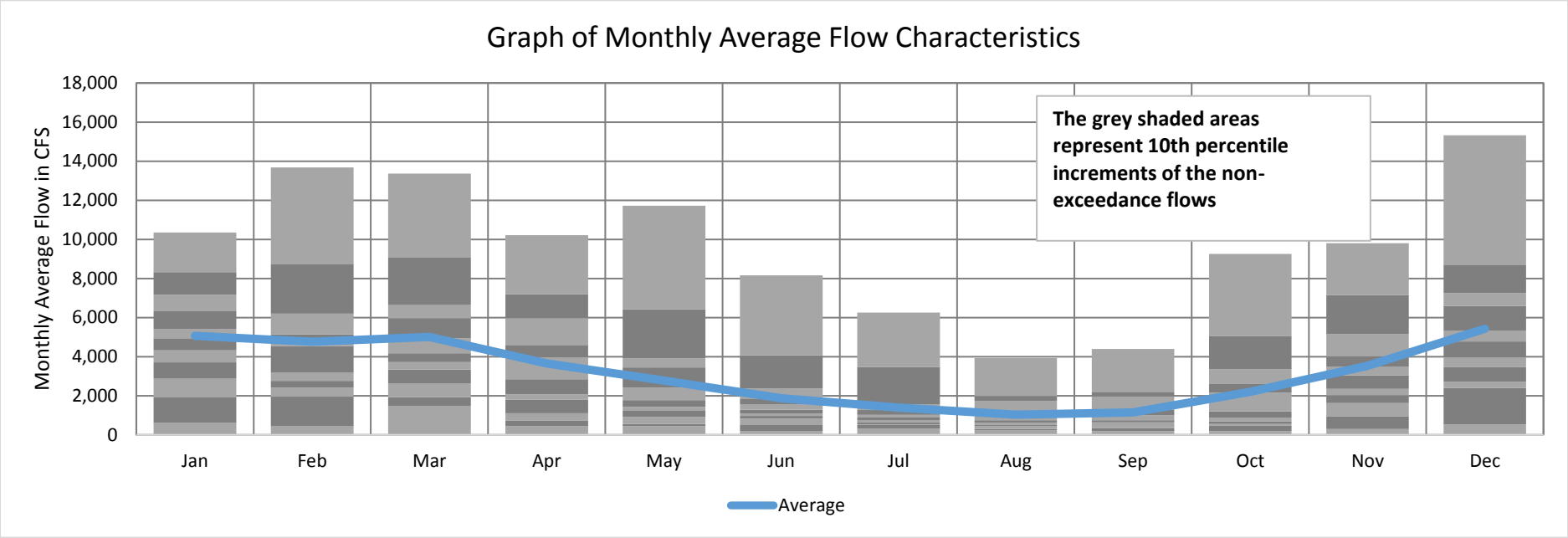
Site #: 03584600 Name: Elk River at Prospect, Tenn. (represents streamflow for 06030004)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425
100%	10,350	13,680	13,360	10,220	11,721	8,158	6,260	3,928	4,389	9,255	9,809	15,320
98%	9,887	13,430	13,360	9,649	10,227	8,043	5,512	2,768	3,334	8,821	9,091	14,493
95%	8,859	12,676	11,223	8,941	8,456	5,027	4,719	2,236	2,957	6,555	8,198	14,023
90%	8,329	8,747	9,091	7,192	6,414	4,057	3,473	1,987	2,206	5,063	7,149	8,712
75%	6,844	5,446	6,201	5,332	3,522	2,030	1,374	1,323	1,511	3,001	4,917	6,733
50%	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776
25%	3,198	2,694	2,998	1,652	1,092	913	556	469	478	620	1,947	2,976
10%	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398
5%	971	1,289	1,629	571	472	294	436	282	329	299	762	1,591
2%	762	1,034	1,497	544	464	268	338	268	265	205	549	1,097
0%	629	430	1,464	452	445	201	329	241	186	188	301	532

Site #: 03584600 Name: Elk River at Prospect, Tenn. (represents streamflow for 06030004)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 1,805 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	5,060	4,756	5,009	3,654	2,778	1,877	1,390	1,030	1,142	2,197	3,533	5,425
100%	10,350	13,680	13,360	10,220	11,721	8,158	6,260	3,928	4,389	9,255	9,809	15,320
98%	9,887	13,430	13,360	9,649	10,227	8,043	5,512	2,768	3,334	8,821	9,091	14,493
95%	8,859	12,676	11,223	8,941	8,456	5,027	4,719	2,236	2,957	6,555	8,198	14,023
90%	8,329	8,747	9,091	7,192	6,414	4,057	3,473	1,987	2,206	5,063	7,149	8,712
75%	6,844	5,446	6,201	5,332	3,522	2,030	1,374	1,323	1,511	3,001	4,917	6,733
50%	4,947	4,529	4,179	2,844	1,782	1,276	883	754	745	1,207	3,040	4,776
25%	3,198	2,694	2,998	1,652	1,092	913	556	469	478	620	1,947	2,976
10%	1,946	1,955	1,925	718	552	534	495	301	351	458	947	2,398
5%	971	1,289	1,629	571	472	294	436	282	329	299	762	1,591
2%	762	1,034	1,497	544	464	268	338	268	265	205	549	1,097
0%	629	430	1,464	452	445	201	329	241	186	188	301	532

Monthly Flows (in CFS) for

03586000 - Wheeler Lake near Decatur, Ala. (represents streamflow for 06030002)

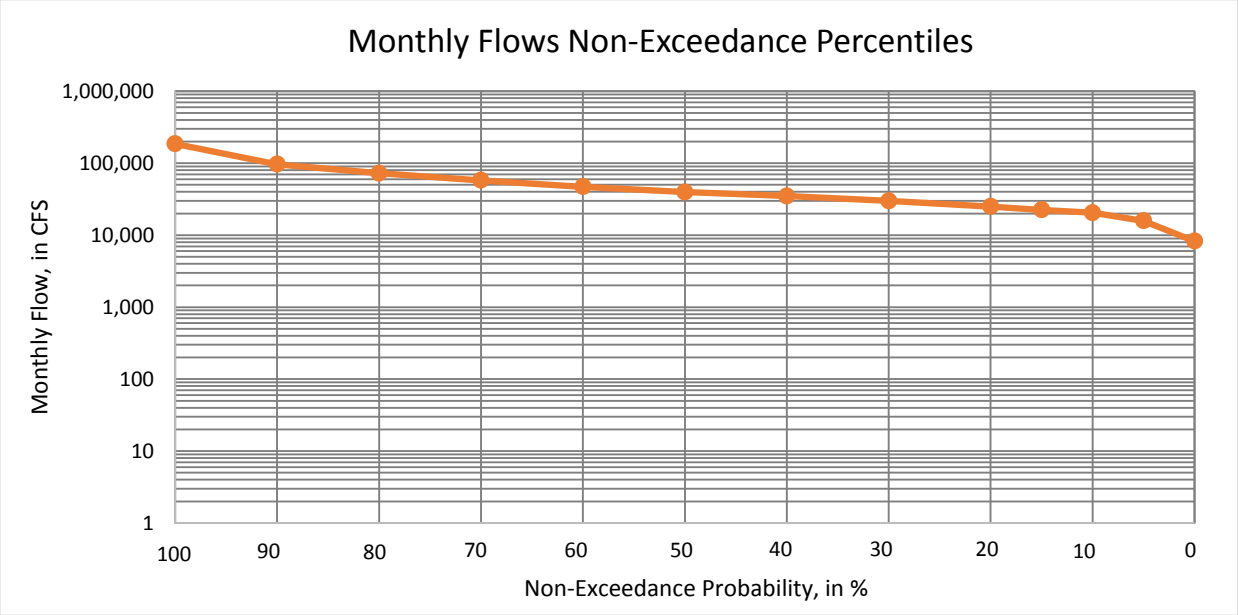
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	104,945	113,900	142,768	87,570	48,910	44,030	45,600	38,239	40,727	66,855	54,587	56,487	70,177
1976	81,135	59,607	51,581	26,163	33,677	41,927	47,913	38,700	31,990	37,387	38,260	57,581	45,497
1977	64,755	36,850	82,945	102,823	37,723	34,767	32,123	29,523	43,537	57,626	106,553	107,245	61,458
1978	94,706	64,039	64,119	23,403	47,055	35,340	31,865	41,223	31,473	20,806	20,577	45,290	43,326
1979	109,603	68,064	117,348	69,470	47,400	53,727	55,668	48,829	54,670	55,723	90,393	62,742	69,508
1980	76,497	52,131	137,690	73,010	53,639	35,240	35,261	30,374	27,900	22,103	29,527	24,910	49,931
1981	21,097	44,946	23,777	28,033	14,535	36,297	29,281	29,265	26,457	22,152	21,160	43,435	28,238
1982	114,397	106,586	73,032	31,930	22,432	26,217	34,652	45,252	36,487	31,990	41,030	108,165	55,841
1983	64,535	74,721	43,097	82,900	86,719	51,783	41,461	39,326	26,650	20,232	39,407	94,652	55,356
1984	62,951	53,293	62,885	50,219	129,806	34,869	42,029	46,238	37,063	29,579	38,674	47,202	53,036
1985	39,428	78,325	29,429	15,247	21,128	18,813	23,806	37,813	24,404	28,418	29,300	39,811	31,893
1986	23,310	46,140	33,485	9,754	9,996	13,967	18,335	15,672	21,004	24,659	56,750	79,121	29,255
1987	63,605	69,112	77,459	31,018	28,424	26,378	27,387	29,829	20,860	22,524	20,797	22,172	36,494
1988	52,442	36,297	18,693	17,328	8,248	11,285	14,361	16,234	20,401	17,869	37,234	35,232	23,724
1989	97,164	79,838	92,638	45,758	44,876	103,247	82,616	42,789	53,296	92,065	79,030	67,507	73,383
1990	110,269	185,671	114,999	26,039	48,238	34,906	31,368	38,721	27,935	29,637	34,887	116,153	65,980
1991	87,063	115,911	100,794	73,514	62,066	37,155	33,704	38,365	34,714	26,294	33,830	132,687	64,471
1992	77,940	40,636	62,647	18,191	20,379	42,319	38,862	34,037	39,898	38,826	68,777	93,290	48,106
1993	103,224	51,821	92,479	54,310	36,378	27,110	23,278	31,423	29,427	20,589	27,857	56,320	46,264
1994	87,727	153,643	125,138	148,861	31,441	37,300	47,367	47,076	45,717	49,848	45,608	62,748	72,927
1995	71,971	83,302	77,749	15,927	20,380	21,058	25,347	36,099	37,552	62,255	75,490	60,996	48,855
1996	107,363	106,431	84,395	46,324	35,672	43,616	27,571	41,668	42,536	47,222	57,994	101,456	61,644
1997	101,005	81,174	126,118	30,642	56,593	92,633	44,097	33,818	34,675	44,684	45,524	35,445	60,470
1998	93,557	108,117	81,269	97,948	64,132	57,667	29,953	36,381	28,286	24,593	24,803	42,858	57,105
1999	97,424	62,069	65,547	12,910	38,892	23,262	51,443	30,176	23,434	22,488	28,183	26,598	40,222
2000	31,114	28,492	39,605	70,219	15,844	17,887	20,452	32,953	20,843	31,354	32,803	31,204	31,037
2001	42,711	72,327	57,797	21,202	17,076	29,160	23,864	48,260	34,988	33,226	31,626	63,236	39,468
2002	85,899	49,311	58,822	38,099	41,476	17,950	21,523	24,031	28,983	31,411	65,944	97,505	46,824
2003	50,571	131,291	78,215	43,730	140,598	53,813	60,875	51,491	45,152	39,389	52,054	72,230	67,981
2004	64,869	99,730	62,688	12,128	12,882	40,275	38,203	31,861	75,785	50,939	83,149	164,906	61,231
2005	68,501	66,479	51,212	51,146	24,792	31,835	42,061	31,627	34,998	28,701	27,943	36,834	41,191
2006	61,773	47,900	24,628	30,852	25,066	17,739	17,783	24,847	27,968	32,820	59,382	31,565	33,404
2007	60,985	26,676	21,038	11,273	11,594	19,201	16,449	24,540	12,465	12,710	12,519	12,332	20,164
2008	21,818	46,580	46,991	27,293	15,684	16,874	16,057	27,289	14,041	15,201	12,368	72,856	27,710
2009	86,233	33,595	47,228	41,105	83,001	33,768	22,046	32,000	46,856	69,182	82,969	128,378	59,155
2010	92,958	119,847	45,754	21,335	37,784	23,253	15,981	26,790	23,337	22,817	32,795	60,275	43,152
2011	52,676	38,863	120,331	103,648	36,125	26,875	27,208	25,758	42,159	27,896	50,836	117,357	55,950
2012	105,800	73,745	62,129	11,217	11,700	18,969	20,545	31,587	32,997	37,105	37,147	48,084	40,822
2013	131,827	121,522	72,179	60,639	104,157	58,527	96,492	42,128	39,381	37,022	38,831	86,153	73,952
2014	83,138	80,886	42,792	33,386	21,989	28,792	23,025	29,662	29,795	50,231	51,178	56,131	44,042

Non-Exceedance Percentiles

03586000 - Wheeler Lake near Decatur, Ala. (represents streamflow for 06030002)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332	20,164
5th %	23,235	33,340	23,640	11,270	11,514	16,729	16,053	23,641	20,083	17,736	20,174	24,773	27,511
10th %	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744	29,153
15th %	49,392	40,370	38,687	15,825	15,511	18,684	20,134	26,635	22,987	21,909	27,399	34,682	31,764
20th %	52,629	45,901	43,036	18,018	16,830	19,154	21,327	28,869	24,210	22,420	28,135	36,556	35,876
30th %	63,409	51,068	50,017	25,248	21,731	25,330	23,648	30,072	27,924	24,639	32,444	44,734	41,080
40th %	67,048	61,084	60,806	29,599	27,081	28,119	27,315	31,611	29,249	28,588	36,243	56,244	44,915
Median	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635	48,481
60th %	86,565	76,163	74,803	44,541	38,227	35,280	34,083	36,954	34,992	34,745	45,558	64,944	55,550
70th %	93,902	81,813	81,772	52,095	47,158	38,192	39,642	38,706	38,100	38,995	52,813	81,231	59,550
80th %	101,449	106,892	94,269	70,777	54,230	43,699	44,397	41,760	42,234	49,925	60,695	98,295	62,209
90th %	107,587	120,014	120,812	88,608	83,373	54,198	51,866	46,322	45,830	58,089	79,424	116,273	69,575
Maximum	131,827	185,671	142,768	148,861	140,598	103,247	96,492	51,491	75,785	92,065	106,553	164,906	73,952
Average	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479	49,481

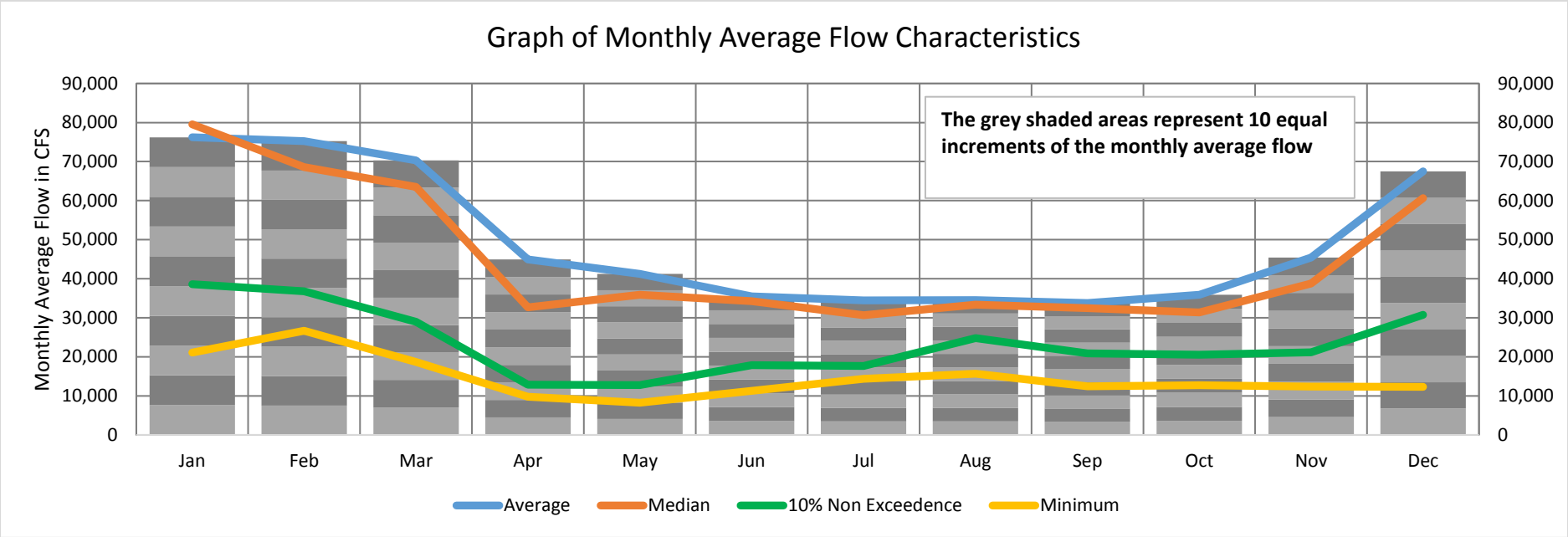
	Flows in CFS
Minimum	8,247.5
5th %	15,836
10th %	20,447
15th %	22,479
20th %	25,035
30th %	29,916
40th %	34,955
Median	39,708
60th %	47,063
70th %	57,594
80th %	72,433
90th %	96,559
Maximum	185,671
Average	49,586



Q10/Q50	0.51
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.28
Q5/DA	0.54
Q10/DA	0.69
Q15/DA	0.76
Q20/DA	0.85
Q30/DA	1.01
Q40/DA	1.18
Q50/DA	1.34
Q60/DA	1.59
Q70/DA	1.95
Q80/DA	2.45
Q90/DA	3.26
Qmax/DA	6.27

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

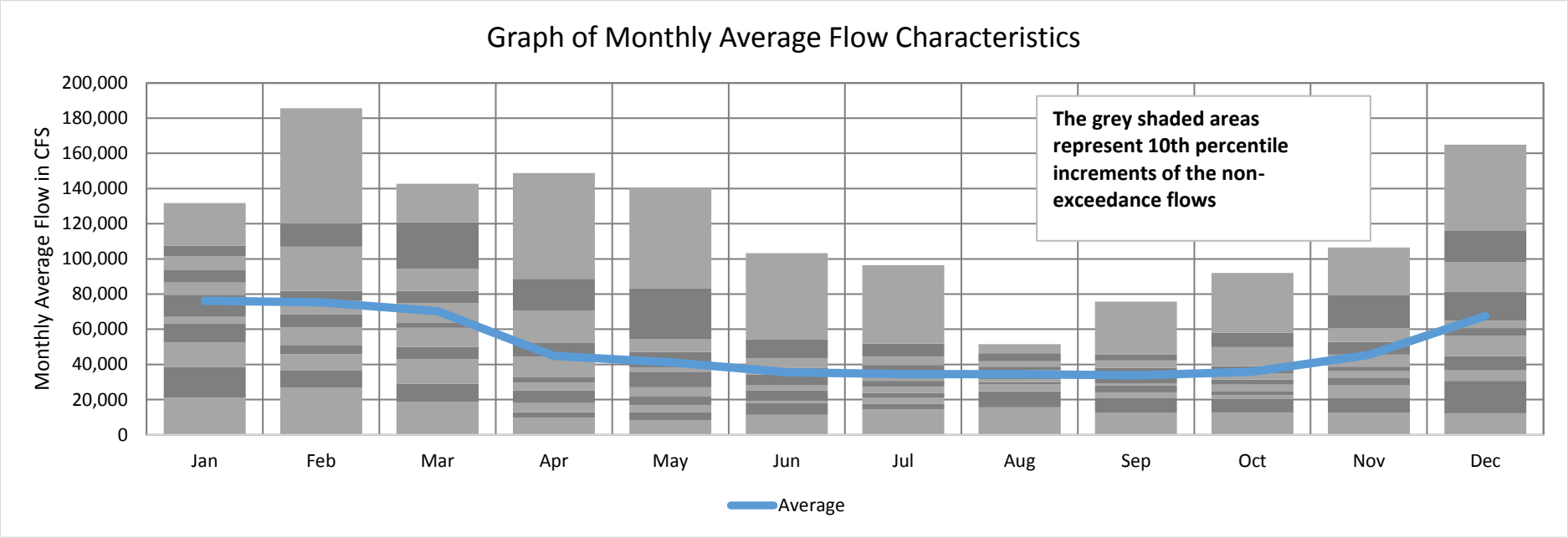
Site #: 03586000 Name: Wheeler Lake near Decatur, Ala. (represents streamflow for 06030002)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479
100%	131,827	185,671	142,768	148,861	140,598	103,247	96,492	51,491	75,785	92,065	106,553	164,906
98%	118,231	160,689	138,807	113,595	132,180	94,968	85,669	49,415	59,315	74,216	93,949	139,775
95%	110,475	132,409	126,697	102,865	105,439	60,233	61,962	48,288	53,365	66,971	83,511	128,593
90%	107,587	120,014	120,812	88,608	83,373	54,198	51,866	46,322	45,830	58,089	79,424	116,273
75%	97,229	101,406	86,416	62,847	48,406	42,025	42,037	39,800	40,105	45,318	57,061	93,631
50%	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635
25%	61,576	47,570	46,682	21,302	20,380	22,704	22,780	29,627	26,602	22,744	29,470	42,096
10%	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744
5%	23,235	33,340	23,640	11,270	11,514	16,729	16,053	23,641	20,083	17,736	20,174	24,773
2%	21,660	28,093	20,522	10,895	9,611	13,377	15,624	16,111	13,694	14,653	12,486	20,008
0%	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332

Site #: 03586000 Name: Wheeler Lake near Decatur, Ala. (represents streamflow for 06030002)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 29,590 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	76,225	75,247	70,337	44,914	41,213	35,496	34,448	34,547	33,771	35,911	45,444	67,479
100%	131,827	185,671	142,768	148,861	140,598	103,247	96,492	51,491	75,785	92,065	106,553	164,906
98%	118,231	160,689	138,807	113,595	132,180	94,968	85,669	49,415	59,315	74,216	93,949	139,775
95%	110,475	132,409	126,697	102,865	105,439	60,233	61,962	48,288	53,365	66,971	83,511	128,593
90%	107,587	120,014	120,812	88,608	83,373	54,198	51,866	46,322	45,830	58,089	79,424	116,273
75%	97,229	101,406	86,416	62,847	48,406	42,025	42,037	39,800	40,105	45,318	57,061	93,631
50%	79,538	68,588	63,502	32,658	35,898	34,267	30,660	33,385	32,493	31,382	38,752	60,635
25%	61,576	47,570	46,682	21,302	20,380	22,704	22,780	29,627	26,602	22,744	29,470	42,096
10%	38,597	36,795	28,948	12,832	12,764	17,873	17,649	24,816	20,859	20,553	21,124	30,744
5%	23,235	33,340	23,640	11,270	11,514	16,729	16,053	23,641	20,083	17,736	20,174	24,773
2%	21,660	28,093	20,522	10,895	9,611	13,377	15,624	16,111	13,694	14,653	12,486	20,008
0%	21,097	26,676	18,693	9,754	8,248	11,285	14,361	15,672	12,465	12,710	12,368	12,332

Monthly Flows (in CFS) for
03586500 - Big Nance Creek at Courtland, Ala.

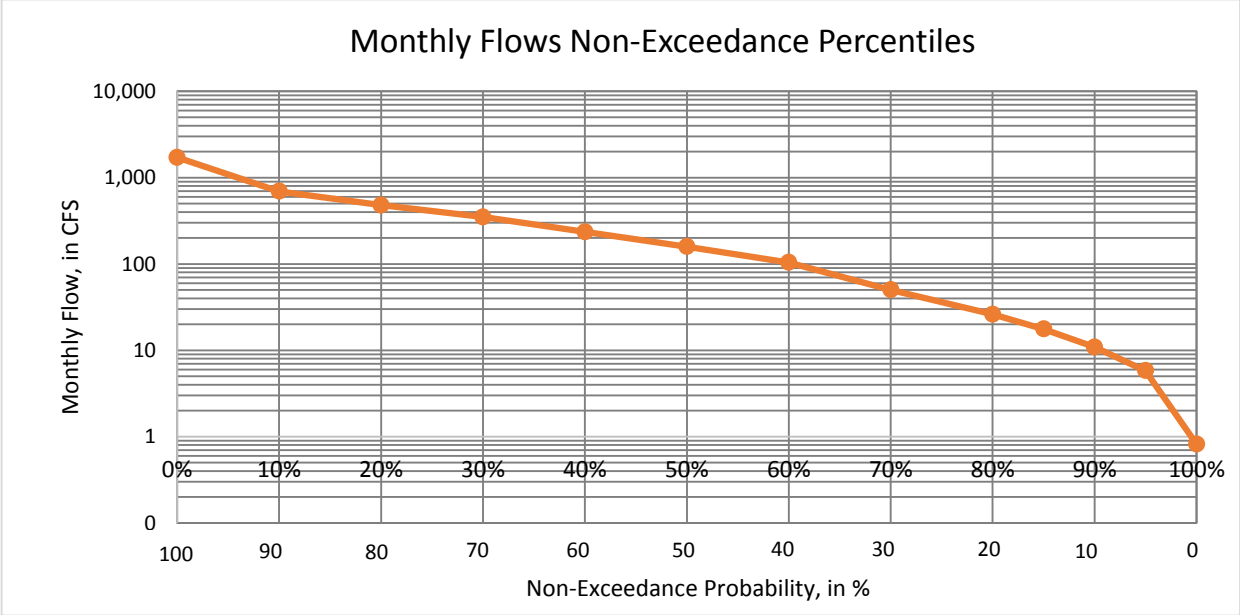
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,011	487	1,461	287	329	111	65	76	323	1,481	194	323	516
1976	440	343	441	135	77	110	77	30	33	44	71	174	164
1977	339	345	1,033	554	54	60	8	8	15	45	467	240	263
1978	336	127	405	88	547	210	18	6	3	2	6	57	151
1979	648	608	491	693	126	76	61	134	569	109	859	201	378
1980	409	289	1,713	574	556	55	27	19	29	26	123	51	324
1981	46	249	255	239	55	81	15	115	14	17	43	142	105
1982	1,003	497	259	269	63	43	67	105	9	8	123	634	256
1983	279	559	725	831	1,117	91	47	16	8	9	141	1,180	417
1984	419	274	533	695	1,253	44	17	12	6	120	290	158	319
1985	266	612	142	227	588	26	42	46	11	39	44	54	172
1986	50	233	224	45	160	163	27	7	4	31	202	287	119
1987	506	632	515	110	33	22	9	9	14	4	36	176	170
1988	364	226	69	256	18	4	5	2	7	25	233	222	118
1989	1,095	892	817	379	109	935	353	93	429	665	303	211	520
1990	921	1,070	818	278	376	98	23	5	2	2	11	1,704	441
1991	431	1,523	890	1,109	1,046	145	128	19	12	16	36	1,097	532
1992	177	246	349	133	53	171	37	31	82	31	356	451	176
1993	497	322	606	299	177	26	13	17	13	15	171	349	209
1994	658	1,019	1,002	360	206	137	254	62	48	179	234	440	380
1995	387	668	573	378	104	83	34	20	16	110	232	301	239
1996	777	354	771	357	72	22	49	55	170	95	354	583	305
1997	672	458	607	129	224	1,202	151	50	37	243	98	363	352
1998	1,089	863	455	263	124	30	59	60	7	10	7	341	273
1999	1,321	383	578	229	249	164	64	5	2	1	12	33	254
2000	152	191	349	861	45	24	17	8	1	1	71	201	159
2001	517	639	534	342	184	607	156	110	221	228	122	689	361
2002	595	283	527	335	630	38	28	37	53	125	316	687	306
2003	197	1,050	367	237	1,123	164	371	176	128	22	159	193	345
2004	305	1,202	744	106	41	89	135	25	139	215	502	1,385	403
2005	400	473	260	479	38	88	154	59	50	11	61	306	196
2006	699	411	181	329	295	37	3	3	7	15	207	78	187
2007	418	151	97	114	23	4	11	3	2	2	17	26	72
2008	28	221	346	245	201	58	7	13	2	3	6	803	162
2009	438	148	617	405	598	105	22	22	370	701	397	687	378
2010	635	552	472	186	216	94	26	10	3	52	71	191	207
2011	442	184	787	1,548	250	47	27	48	127	8	40	408	326
2012	731	370	274	127	24	16	41	19	90	132	23	355	183
2013	852	379	543	566	426	110	745	460	41	6	50	434	386
2014	291	615	197	460	186	121	120	23	23	111	152	568	236

Non-Exceedance Percentiles

03586500 - Big Nance Creek at Courtland, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	28	127	69	45	18	4	3	2	1	1	6	26	72
5th %	50	151	140	105	24	16	7	3	2	2	7	50	118
10th %	174	190	195	113	38	22	9	5	2	2	12	56	148
15th %	256	225	250	129	45	26	13	7	3	4	22	133	161
20th %	288	244	260	135	54	30	16	8	6	7	36	171	169
30th %	356	287	349	234	76	44	22	13	8	11	48	198	186
40th %	414	350	449	261	125	59	27	19	13	17	71	232	225
Median	439	397	521	293	185	85	39	23	15	28	123	314	260
60th %	511	491	555	348	219	95	53	33	34	44	164	358	311
70th %	651	609	610	387	305	110	65	51	51	109	214	443	347
80th %	740	645	774	556	549	149	130	65	127	126	293	645	379
90th %	1,003	1,022	901	708	671	175	166	111	231	230	360	832	420
Maximum	1,321	1,523	1,713	1,548	1,253	1,202	745	460	569	1,481	859	1,704	532
Average	521	504	551	381	300	143	88	50	78	124	171	420	277

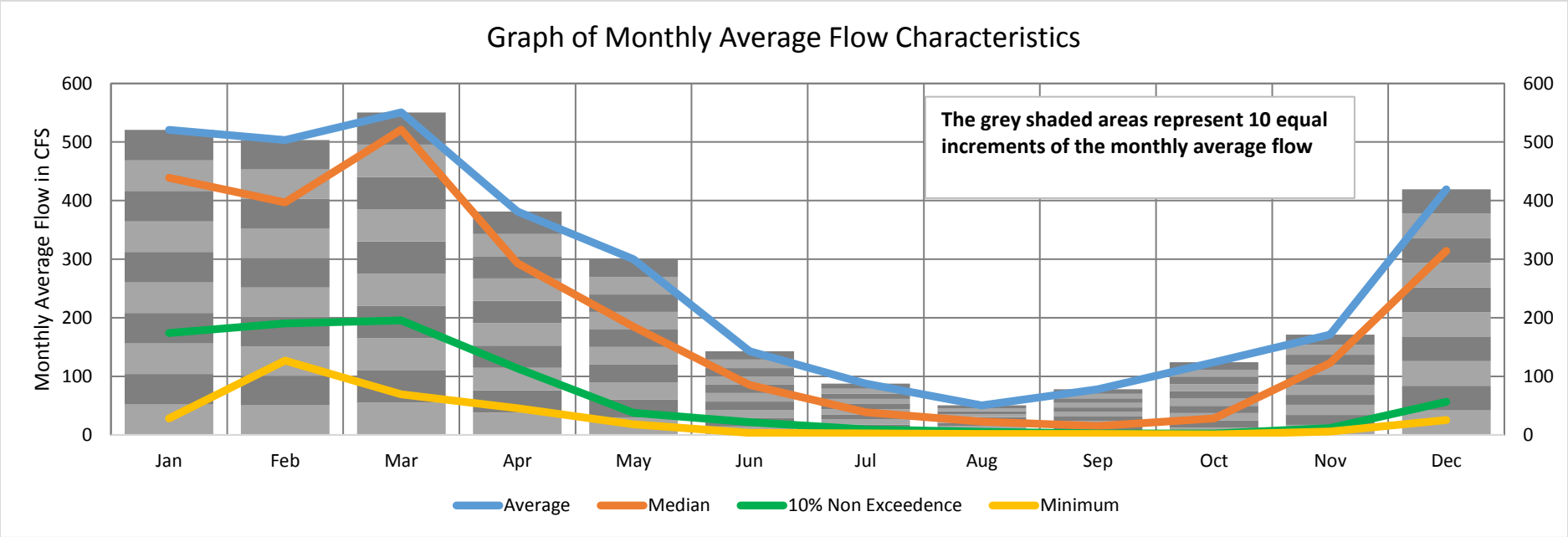
	Flows in CFS
Minimum	0.8
5th %	6
10th %	11
15th %	18
20th %	26
30th %	50
40th %	104
Median	158
60th %	235
70th %	349
80th %	480
90th %	693
Maximum	1,713
Average	277



Q10/Q50	0.07
Q10/Q90	0.02
	CFSM*
Qmin/DA	0.00
Q5/DA	0.03
Q10/DA	0.07
Q15/DA	0.11
Q20/DA	0.16
Q30/DA	0.30
Q40/DA	0.63
Q50/DA	0.95
Q60/DA	1.41
Q70/DA	2.10
Q80/DA	2.89
Q90/DA	4.18
Qmax/DA	10.32

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

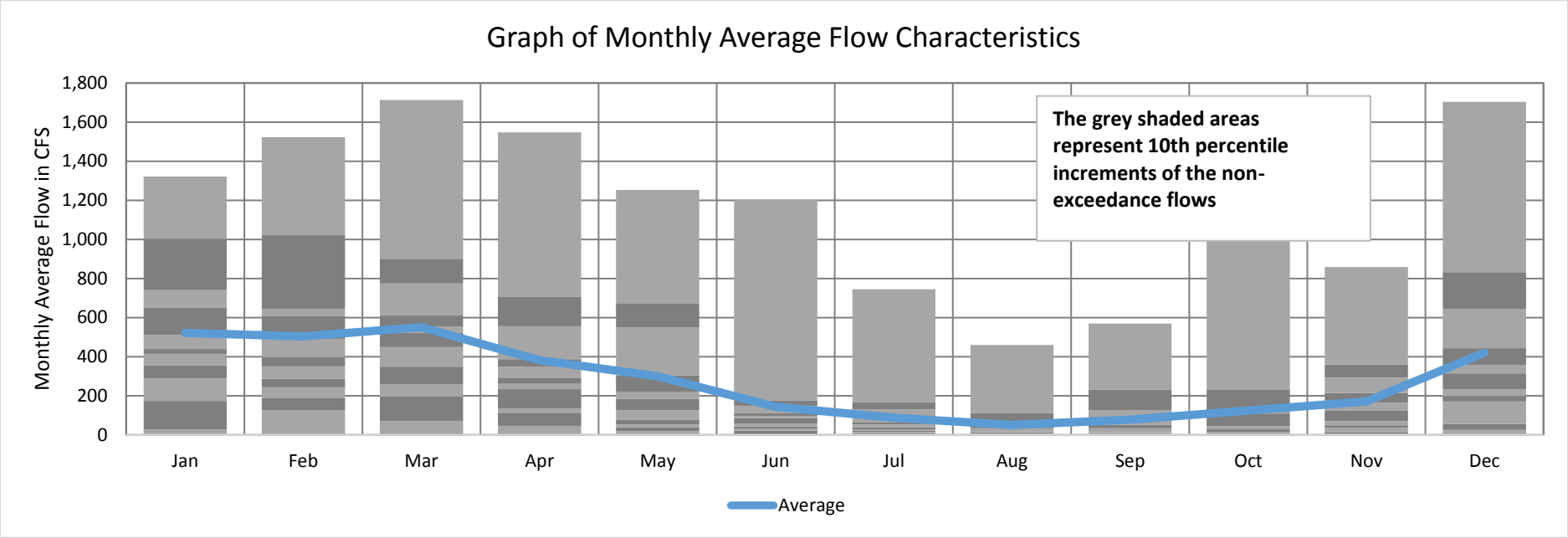
Site #: 03586500 Name: Big Nance Creek at Courtland, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	521	504	551	381	300	143	88	50	78	124	171	420
100%	1,321	1,523	1,713	1,548	1,253	1,202	745	460	569	1,481	859	1,704
98%	1,145	1,273	1,516	1,206	1,152	994	453	238	460	872	580	1,455
95%	1,089	1,077	1,054	873	1,117	624	354	136	373	667	469	1,190
90%	1,003	1,022	901	708	671	175	166	111	231	230	360	832
75%	679	619	730	464	389	125	88	59	84	114	233	572
50%	439	397	521	293	185	85	39	23	15	28	123	314
25%	328	268	328	217	61	38	17	9.9	6.8	8.9	42	187
10%	174	190	195	113	38	22	9.3	5.2	2.5	2.4	12	56
5%	50	151	140	105	24	16	7.4	2.8	1.8	2.0	7.0	50
2%	42	143	91	79	22	4.3	4.8	2.5	1.5	1.2	6.2	31
0%	28	127	69	45	18	3.6	2.7	1.7	1.5	0.8	5.8	26

Site #: 03586500 Name: Big Nance Creek at Courtland, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 166 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	521	504	551	381	300	143	88	50	78	124	171	420
100%	1,321	1,523	1,713	1,548	1,253	1,202	745	460	569	1,481	859	1,704
98%	1,145	1,273	1,516	1,206	1,152	994	453	238	460	872	580	1,455
95%	1,089	1,077	1,054	873	1,117	624	354	136	373	667	469	1,190
90%	1,003	1,022	901	708	671	175	166	111	231	230	360	832
75%	679	619	730	464	389	125	88	59	84	114	233	572
50%	439	397	521	293	185	85	39	23	15	28	123	314
25%	328	268	328	217	61	38	17	9.9	6.8	8.9	42	187
10%	174	190	195	113	38	22	9.3	5.2	2.5	2.4	12	56
5%	50	151	140	105	24	16	7.4	2.8	1.8	2.0	7.0	50
2%	42	143	91	79	22	4.3	4.8	2.5	1.5	1.2	6.2	31
0%	28	127	69	45	18	3.6	2.7	1.7	1.5	0.8	5.8	26

Monthly Flows (in CFS) for
03588500 - Shoal Creek at Iron City, Tenn.

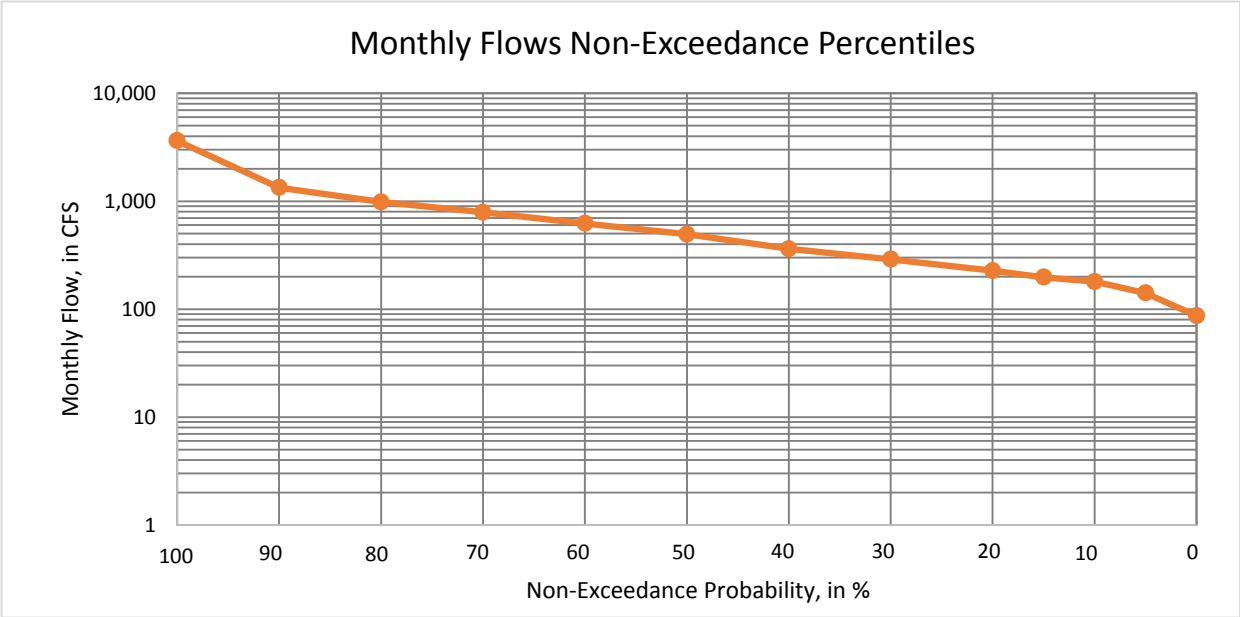
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,823	1,277	3,626	818	943	354	305	309	468	865	585	790	1,016
1976	1,226	1,000	979	690	676	457	361	293	282	589	365	361	605
1977	698	735	2,328	1,239	290	295	181	130	381	549	1,894	894	800
1978	985	478	1,251	487	1,386	476	265	191	130	177	258	883	584
1979	2,361	874	1,031	1,935	955	557	321	269	1,295	290	1,382	1,066	1,026
1980	998	698	3,303	1,412	1,643	445	498	216	175	176	217	182	834
1981	170	603	404	539	206	235	179	287	208	168	208	495	306
1982	1,581	832	820	989	562	276	252	187	135	139	380	1,984	679
1983	772	946	956	2,197	2,205	496	302	223	180	181	570	1,515	878
1984	485	502	902	921	1,738	292	283	233	147	601	984	717	652
1985	480	1,104	508	567	528	292	214	330	160	200	327	281	411
1986	186	713	588	222	609	325	131	135	183	159	1,473	1,322	501
1987	563	1,292	792	393	241	191	195	108	152	114	211	453	386
1988	967	487	498	652	207	118	130	95	115	130	439	482	359
1989	1,894	1,718	1,240	1,190	514	1,042	1,027	243	255	474	722	417	889
1990	1,087	1,926	1,223	799	733	348	221	141	125	181	213	1,787	726
1991	785	2,633	1,333	1,821	3,425	613	299	213	175	228	251	2,543	1,187
1992	716	662	1,116	434	300	428	259	321	964	288	636	725	569
1993	782	532	1,015	883	959	344	242	233	241	193	222	807	539
1994	1,141	2,008	2,549	1,673	786	790	387	243	247	539	621	916	985
1995	841	1,234	1,101	828	417	380	277	238	222	428	618	719	605
1996	1,388	795	1,379	799	359	243	311	326	526	401	794	1,115	704
1997	1,240	941	1,149	460	607	2,006	495	314	284	636	407	808	778
1998	1,838	1,510	936	665	451	268	333	335	183	197	182	777	636
1999	2,186	835	1,108	615	643	517	344	169	137	120	206	275	597
2000	497	557	788	1,508	304	250	226	189	123	113	254	622	451
2001	694	2,031	742	627	298	379	494	283	391	673	891	1,453	738
2002	2,326	722	1,566	773	546	238	231	175	251	532	999	1,174	797
2003	686	2,595	793	599	1,873	423	492	338	399	231	399	536	769
2004	640	1,704	1,062	507	536	982	583	339	405	1,278	1,167	2,304	955
2005	865	864	545	794	370	455	221	259	371	247	258	404	468
2006	1,513	773	671	766	676	366	205	151	139	148	250	271	493
2007	725	311	594	305	183	139	125	87	111	158	198	338	273
2008	337	771	907	1,067	829	330	197	160	133	178	182	821	491
2009	595	283	785	788	1,088	356	794	249	1,146	1,173	652	1,109	755
2010	1,062	1,318	893	440	1,879	328	225	233	172	168	267	320	606
2011	548	736	1,205	2,026	862	363	392	172	475	189	325	1,058	694
2012	1,172	740	748	297	296	188	215	237	231	333	190	1,116	481
2013	1,583	670	719	1,047	712	296	362	261	195	159	187	618	568
2014	425	944	498	537	437	851	528	202	145	318	353	922	510

Non-Exceedance Percentiles

03588500 - Shoal Creek at Iron City, Tenn.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	170	283	404	222	183	118	125	87	111	113	182	182	273
5th %	329	470	498	304	207	186	131	107	123	119	186	275	357
10th %	475	501	541	429	285	231	181	134	129	138	197	316	409
15th %	495	554	593	457	297	242	197	149	135	157	207	357	465
20th %	560	650	709	503	303	264	212	168	139	159	212	414	489
30th %	691	719	787	590	431	294	224	189	158	177	251	523	530
40th %	753	759	864	660	532	329	248	215	178	186	264	718	592
Median	853	834	946	780	608	355	280	233	201	214	359	798	621
60th %	1,023	942	1,043	807	690	380	308	243	243	289	420	887	698
70th %	1,188	1,143	1,126	941	839	448	349	263	283	409	619	1,060	759
80th %	1,527	1,356	1,242	1,200	985	500	412	296	393	541	736	1,128	807
90th %	1,844	1,934	1,642	1,688	1,752	796	501	326	480	639	1,016	1,542	958
Maximum	2,361	2,633	3,626	2,197	3,425	2,006	1,027	339	1,295	1,278	1,894	2,543	1,187
Average	1,022	1,034	1,116	883	807	443	327	228	301	348	518	884	658

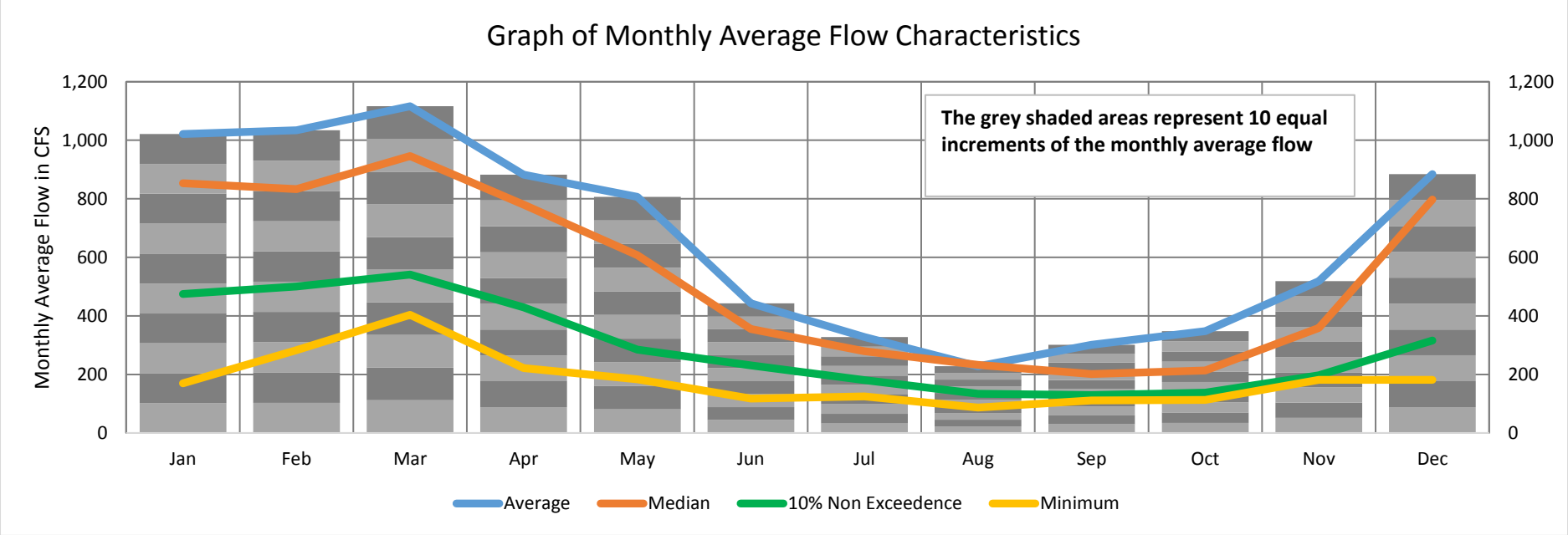
	Flows in CFS
Minimum	86.9
5th %	141
10th %	180
15th %	198
20th %	227
30th %	289
40th %	362
Median	494
60th %	621
70th %	789
80th %	983
90th %	1,338
Maximum	3,626
Average	659



Q10/Q50	0.36
Q10/Q90	0.13
	CFSM*
Qmin/DA	0.25
Q5/DA	0.41
Q10/DA	0.52
Q15/DA	0.57
Q20/DA	0.65
Q30/DA	0.83
Q40/DA	1.04
Q50/DA	1.42
Q60/DA	1.79
Q70/DA	2.27
Q80/DA	2.82
Q90/DA	3.84
Qmax/DA	10.42

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

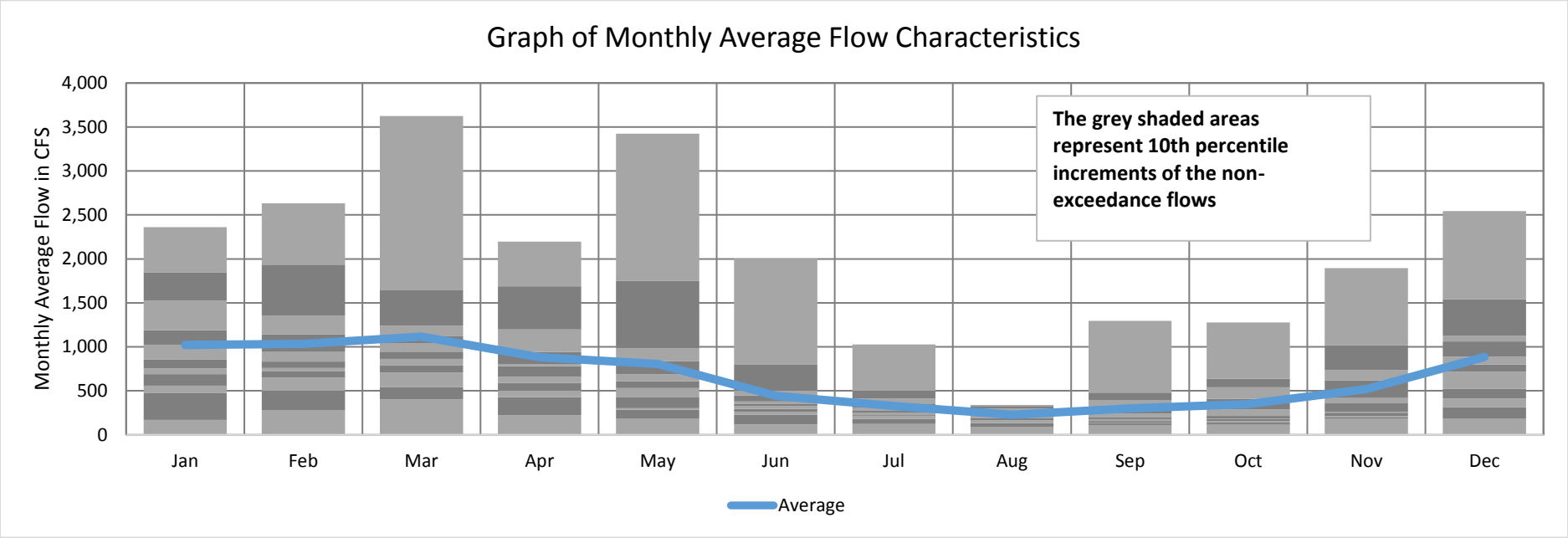
Site #: 03588500 Name: Shoal Creek at Iron City, Tenn.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,022	1,034	1,116	883	807	443	327	228	301	348	518	884
100%	2,361	2,633	3,626	2,197	3,425	2,006	1,027	339	1,295	1,278	1,894	2,543
98%	2,334	2,603	3,374	2,064	2,473	1,254	845	338	1,179	1,196	1,566	2,357
95%	2,193	2,059	2,587	1,940	1,895	985	593	335	973	881	1,387	2,000
90%	1,844	1,934	1,642	1,688	1,752	796	501	326	480	639	1,016	1,542
75%	1,277	1,281	1,210	1,052	946	462	368	284	374	489	640	1,111
50%	853	834	946	780	608	355	280	233	201	214	359	798
25%	629	691	747	538	367	288	220	174	147	168	221	475
10%	475	501	541	429	285	231	181	134	129	138	197	316
5%	329	470	498	304	207	186	131	107	123	119	186	275
2%	182	305	477	280	201	134	129	93	114	114	182	251
0%	170	283	404	222	183	118	125	87	111	113	182	182

Site #: 03588500 Name: Shoal Creek at Iron City, Tenn.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 348 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,022	1,034	1,116	883	807	443	327	228	301	348	518	884
100%	2,361	2,633	3,626	2,197	3,425	2,006	1,027	339	1,295	1,278	1,894	2,543
98%	2,334	2,603	3,374	2,064	2,473	1,254	845	338	1,179	1,196	1,566	2,357
95%	2,193	2,059	2,587	1,940	1,895	985	593	335	973	881	1,387	2,000
90%	1,844	1,934	1,642	1,688	1,752	796	501	326	480	639	1,016	1,542
75%	1,277	1,281	1,210	1,052	946	462	368	284	374	489	640	1,111
50%	853	834	946	780	608	355	280	233	201	214	359	798
25%	629	691	747	538	367	288	220	174	147	168	221	475
10%	475	501	541	429	285	231	181	134	129	138	197	316
5%	329	470	498	304	207	186	131	107	123	119	186	275
2%	182	305	477	280	201	134	129	93	114	114	182	251
0%	170	283	404	222	183	118	125	87	111	113	182	182

Monthly Flows (in CFS) for
03589000 - Wilson Lake near Florence, Ala.

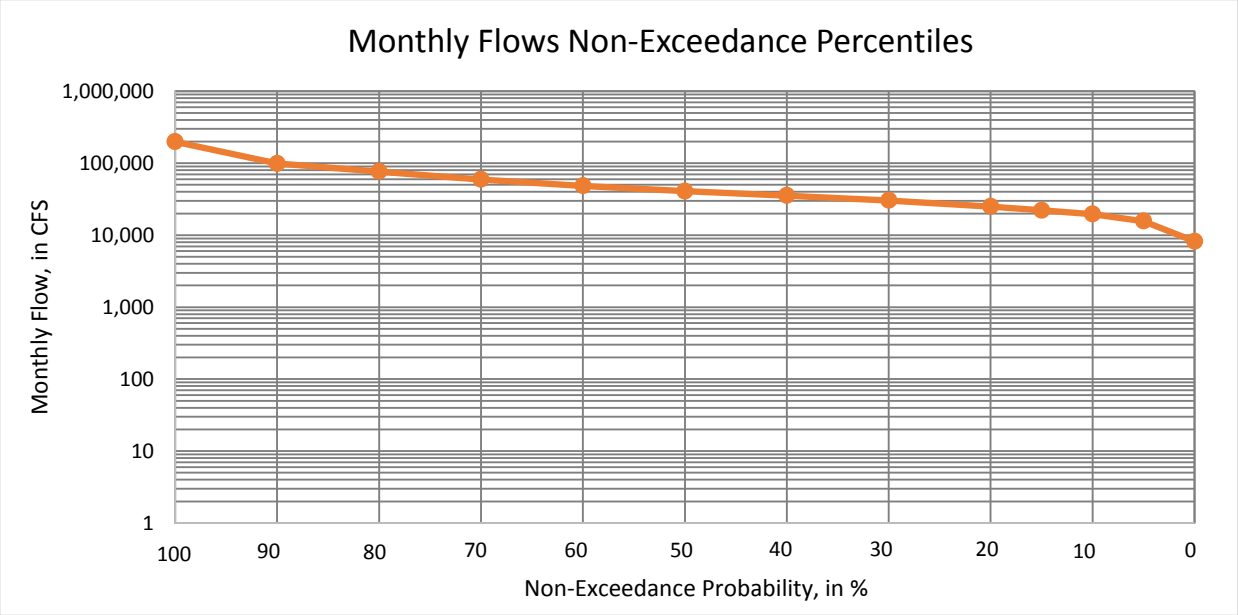
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	115,081	120,189	157,765	92,423	53,119	47,553	49,545	40,752	44,733	76,574	58,343	60,290	76,175
1976	86,132	64,014	56,352	28,507	36,148	44,057	50,068	40,774	33,820	39,935	40,310	61,177	48,442
1977	69,758	41,157	92,832	107,753	39,813	36,643	33,065	30,755	44,433	60,287	113,883	110,587	65,161
1978	97,694	64,221	65,852	22,187	50,316	36,570	31,642	38,974	31,017	19,316	19,767	48,339	43,837
1979	122,039	72,629	124,984	76,853	49,887	54,970	55,968	49,852	59,600	58,319	98,907	67,006	74,283
1980	82,568	55,262	157,713	80,223	59,448	34,990	34,894	29,158	27,003	20,455	29,360	23,016	52,930
1981	20,852	48,186	24,135	28,137	13,342	37,253	29,290	29,374	26,550	21,648	20,357	45,703	28,583
1982	128,003	116,589	78,413	35,583	22,048	24,157	33,274	45,326	35,250	31,026	42,850	121,126	59,275
1983	70,334	82,507	47,557	93,579	96,311	52,892	41,887	39,352	25,627	17,804	39,253	105,613	59,275
1984	67,480	55,451	66,747	53,181	140,514	35,595	42,557	47,521	37,939	32,956	43,712	50,989	56,376
1985	39,487	82,438	31,364	14,902	21,745	18,654	24,292	39,112	24,057	27,673	29,592	38,565	32,367
1986	22,223	47,598	35,172	10,268	11,714	16,104	18,722	16,335	21,566	26,314	62,797	83,947	30,964
1987	67,523	73,959	81,679	30,740	28,727	26,342	27,626	30,266	21,156	22,171	21,378	24,170	37,826
1988	55,067	36,916	19,355	18,517	8,219	10,796	13,794	15,668	19,836	17,460	38,328	35,865	24,072
1989	103,930	87,981	98,147	45,841	44,728	110,205	87,447	44,034	56,025	99,030	84,888	68,654	77,527
1990	115,597	198,438	122,655	28,140	50,353	34,586	31,440	39,566	28,113	30,868	36,110	129,372	69,809
1991	91,547	129,337	105,830	78,390	71,251	38,809	35,214	39,968	35,563	26,290	33,935	146,516	69,144
1992	79,739	41,879	65,993	17,979	20,223	42,390	38,788	34,167	41,046	38,597	70,534	96,560	49,115
1993	105,913	52,960	97,170	56,032	37,289	26,980	22,792	31,074	29,157	20,108	27,777	58,538	47,235
1994	91,683	164,725	135,130	158,245	32,357	38,853	47,761	46,978	45,455	49,738	46,211	65,101	76,182
1995	74,694	86,643	82,645	16,658	20,882	20,712	24,951	36,378	36,843	62,555	77,598	62,462	50,087
1996	109,302	106,563	86,733	48,564	35,696	43,191	27,175	41,037	42,413	46,745	59,963	106,675	62,635
1997	103,911	83,292	129,985	30,479	56,845	97,787	44,187	33,228	34,276	44,178	44,606	36,694	61,552
1998	97,829	110,225	82,378	99,058	63,133	55,839	30,863	35,298	27,300	23,815	23,934	44,213	57,462
1999	104,641	62,073	67,894	13,227	39,853	23,213	50,024	28,961	21,835	21,364	27,335	26,127	40,579
2000	31,030	29,268	41,015	73,276	15,546	17,251	19,617	30,760	19,470	29,900	32,137	31,289	30,842
2001	43,474	77,137	58,576	21,655	16,606	30,266	24,384	46,941	34,291	33,313	32,284	65,003	40,142
2002	91,995	48,594	64,326	38,027	43,257	17,239	20,261	24,706	28,762	30,090	65,113	99,759	47,784
2003	49,315	142,525	81,357	41,921	146,890	51,209	59,263	50,203	43,583	37,689	51,215	73,468	68,691
2004	63,725	104,255	69,120	12,523	13,818	42,598	39,122	32,764	78,943	52,080	84,616	177,003	63,989
2005	69,668	67,290	50,945	52,667	24,998	32,835	42,053	31,494	35,441	28,403	28,152	38,470	41,709
2006	67,086	50,370	25,431	32,575	26,890	18,099	18,030	24,854	27,496	32,623	60,041	31,986	34,495
2007	63,052	26,480	20,566	10,675	10,732	17,529	15,208	23,212	11,588	12,173	11,905	11,791	19,592
2008	21,182	45,953	47,559	28,521	16,811	16,834	15,404	26,477	13,762	14,628	11,889	75,991	27,881
2009	88,280	33,570	49,188	41,671	85,216	33,006	22,504	30,859	49,140	70,786	83,136	132,248	60,274
2010	97,754	127,481	47,028	21,695	40,567	23,171	15,712	25,906	22,354	22,085	32,260	58,899	44,111
2011	52,813	39,077	122,641	108,167	37,218	26,820	26,288	24,002	40,845	26,385	49,508	117,217	56,049
2012	107,587	74,569	60,975	10,766	11,569	18,197	19,610	30,492	32,039	36,386	36,074	49,522	40,550
2013	136,095	121,540	72,532	61,497	104,372	56,857	95,899	41,265	37,857	35,581	38,334	85,695	73,847
2014	82,512	81,002	42,201	33,931	22,238	30,244	22,980	28,478	28,215	49,150	50,580	57,729	43,893

Non-Exceedance Percentiles

03589000 - Wilson Lake near Florence, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	20,852	26,480	19,355	10,268	8,219	10,796	13,794	15,668	11,588	12,173	11,889	11,791	19,592
5th %	22,171	33,355	23,957	10,761	11,527	16,797	15,394	22,868	19,185	17,319	19,374	24,113	27,690
10th %	38,642	38,861	30,771	13,157	13,179	17,250	17,798	24,635	21,024	19,165	21,276	30,772	30,616
15th %	48,439	41,771	40,138	16,394	15,286	18,013	19,477	25,748	21,795	20,403	26,825	35,283	32,156
20th %	54,616	47,269	46,063	18,410	16,770	18,562	20,132	28,078	23,716	21,591	28,077	38,115	37,159
30th %	67,362	52,183	50,418	26,352	21,958	23,874	23,899	29,998	27,211	25,547	32,223	47,548	41,370
40th %	70,104	63,237	62,985	29,696	27,992	28,938	26,820	30,820	28,543	28,111	36,095	58,214	45,985
Median	82,540	73,294	67,321	34,757	36,683	33,796	31,151	32,996	32,930	30,947	39,782	61,820	49,601
60th %	91,601	81,576	79,591	43,489	40,139	36,599	33,922	37,417	35,327	34,220	45,248	67,665	56,810
70th %	97,777	87,044	83,871	54,036	50,016	39,914	39,952	39,687	37,881	38,999	53,353	84,471	60,658
80th %	104,896	111,498	99,683	77,161	57,366	44,756	44,902	41,082	42,647	49,268	63,261	105,825	65,867
90th %	115,132	127,666	125,484	94,127	86,325	55,057	50,658	46,945	45,824	60,514	83,284	121,950	73,890
Maximum	136,095	198,438	157,765	158,245	146,890	110,205	95,899	50,203	78,943	99,030	113,883	177,003	77,527
Average	79,715	78,859	74,198	46,876	43,017	36,032	34,590	34,408	33,860	36,163	46,474	70,584	51,119

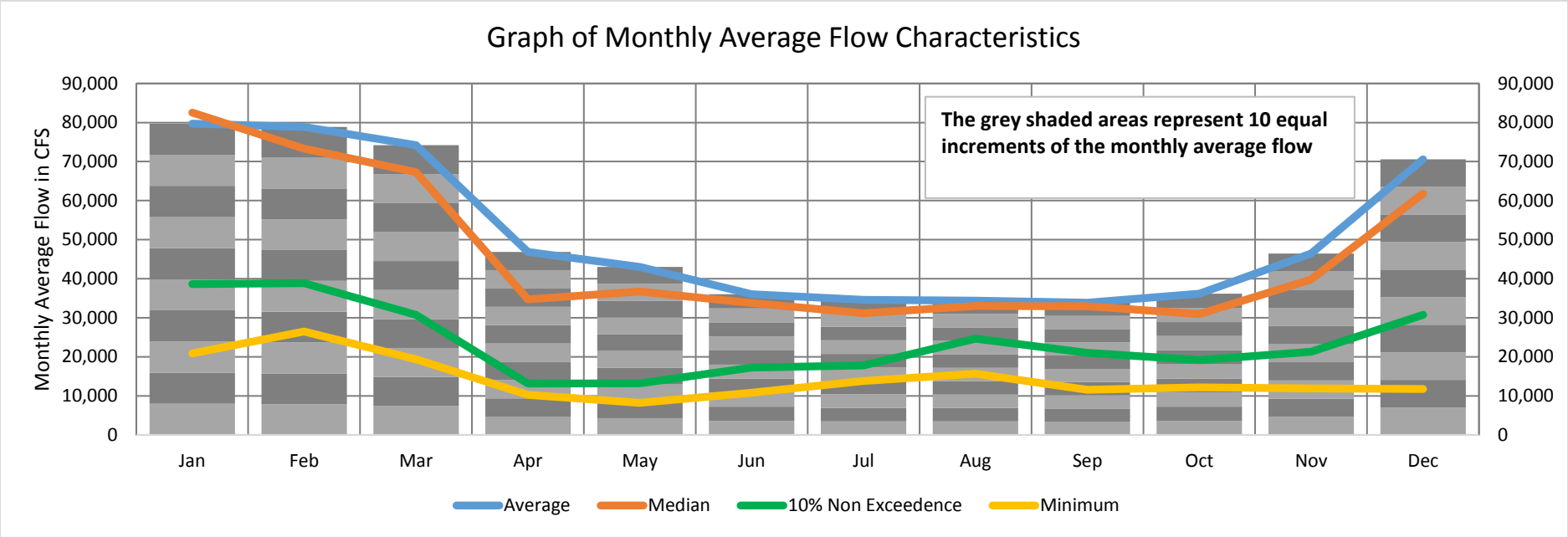
	Flows in CFS
Minimum	8,218.8
5th %	15,662
10th %	19,616
15th %	22,158
20th %	24,988
30th %	30,415
40th %	35,514
Median	40,930
60th %	48,429
70th %	59,319
80th %	76,630
90th %	99,128
Maximum	198,438
Average	51,231



Q10/Q50	0.48
Q10/Q90	0.20
	CFSM*
Qmin/DA	0.27
Q5/DA	0.51
Q10/DA	0.64
Q15/DA	0.72
Q20/DA	0.81
Q30/DA	0.99
Q40/DA	1.15
Q50/DA	1.33
Q60/DA	1.57
Q70/DA	1.93
Q80/DA	2.49
Q90/DA	3.22
Qmax/DA	6.45

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

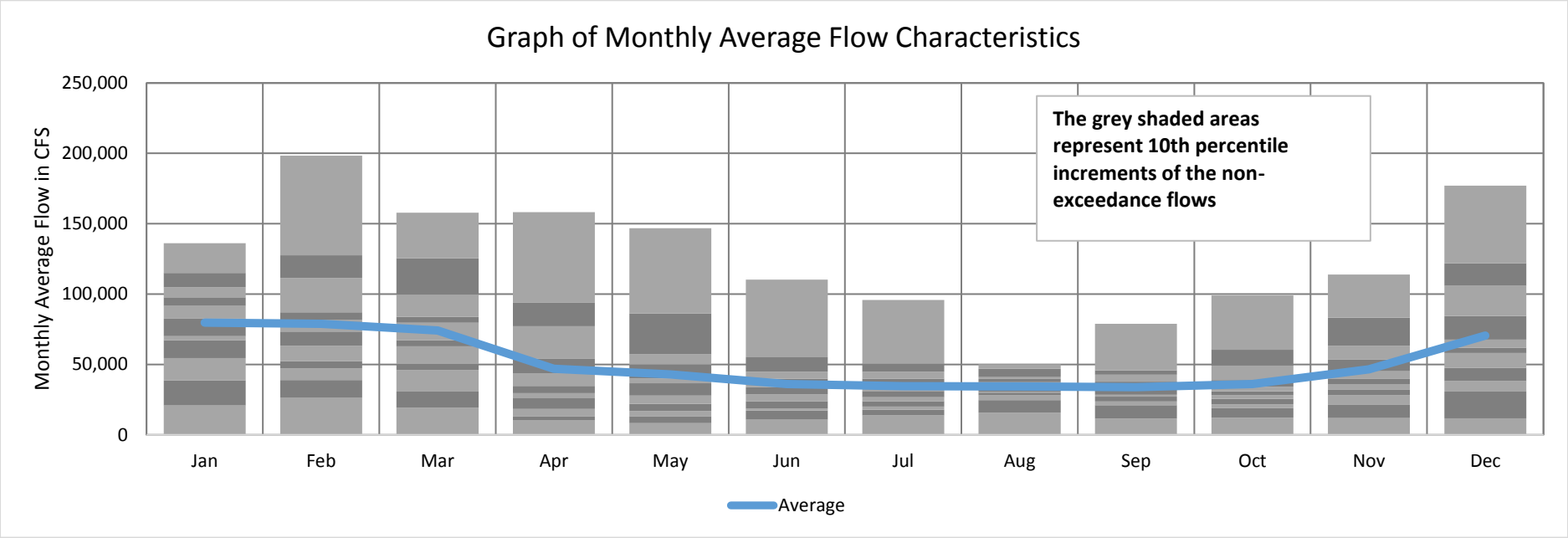
Site #: 03589000 Name: Wilson Lake near Florence, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	79,715	78,859	74,198	46,876	43,017	36,032	34,590	34,408	33,860	36,163	46,474	70,584
100%	136,095	198,438	157,765	158,245	146,890	110,205	95,899	50,203	78,943	99,030	113,883	177,003
98%	129,784	172,142	157,724	119,184	141,917	100,519	89,307	49,929	63,856	81,514	102,202	153,223
95%	122,337	143,635	136,259	107,774	106,179	58,903	60,672	47,638	56,203	71,075	85,589	132,961
90%	115,132	127,666	125,484	94,127	86,325	55,057	50,658	46,945	45,824	60,514	83,284	121,950
75%	103,916	104,832	93,917	64,442	51,045	42,746	42,179	40,757	40,895	44,819	59,983	97,360
50%	82,540	73,294	67,321	34,757	36,683	33,796	31,151	32,996	32,930	30,947	39,782	61,820
25%	63,557	48,492	47,559	21,685	20,717	22,556	22,720	29,109	26,319	22,150	29,534	42,801
10%	38,642	38,861	30,771	13,157	13,179	17,250	17,798	24,635	21,024	19,165	21,276	30,772
5%	22,171	33,355	23,957	10,761	11,527	16,797	15,394	22,868	19,185	17,319	19,374	24,113
2%	21,109	28,655	20,299	10,585	10,179	14,936	14,897	16,188	13,284	14,088	11,902	20,547
0%	20,852	26,480	19,355	10,268	8,219	10,796	13,794	15,668	11,588	12,173	11,889	11,791

Site #: 03589000 Name: Wilson Lake near Florence, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 30,750 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	79,715	78,859	74,198	46,876	43,017	36,032	34,590	34,408	33,860	36,163	46,474	70,584
100%	136,095	198,438	157,765	158,245	146,890	110,205	95,899	50,203	78,943	99,030	113,883	177,003
98%	129,784	172,142	157,724	119,184	141,917	100,519	89,307	49,929	63,856	81,514	102,202	153,223
95%	122,337	143,635	136,259	107,774	106,179	58,903	60,672	47,638	56,203	71,075	85,589	132,961
90%	115,132	127,666	125,484	94,127	86,325	55,057	50,658	46,945	45,824	60,514	83,284	121,950
75%	103,916	104,832	93,917	64,442	51,045	42,746	42,179	40,757	40,895	44,819	59,983	97,360
50%	82,540	73,294	67,321	34,757	36,683	33,796	31,151	32,996	32,930	30,947	39,782	61,820
25%	63,557	48,492	47,559	21,685	20,717	22,556	22,720	29,109	26,319	22,150	29,534	42,801
10%	38,642	38,861	30,771	13,157	13,179	17,250	17,798	24,635	21,024	19,165	21,276	30,772
5%	22,171	33,355	23,957	10,761	11,527	16,797	15,394	22,868	19,185	17,319	19,374	24,113
2%	21,109	28,655	20,299	10,585	10,179	14,936	14,897	16,188	13,284	14,088	11,902	20,547
0%	20,852	26,480	19,355	10,268	8,219	10,796	13,794	15,668	11,588	12,173	11,889	11,791

Monthly Flows (in CFS) for
03590000 - Cypress Creek near Florence, Ala.

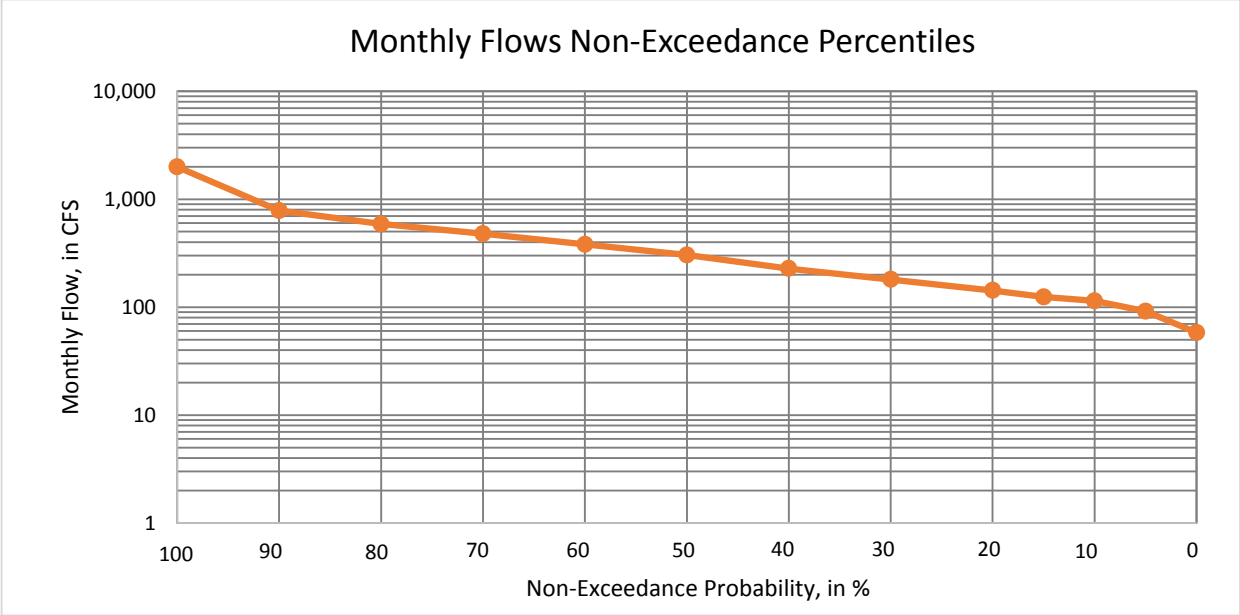
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	1,048	750	1,993	493	564	223	194	196	291	520	359	477	594
1976	722	596	584	420	412	284	227	186	180	362	229	227	368
1977	425	446	1,318	729	184	188	118	86	239	338	1,086	536	474
1978	588	297	736	302	810	296	169	124	86	115	165	530	353
1979	1,335	525	614	1,108	571	343	203	172	760	184	808	633	604
1980	595	425	1,827	825	951	277	308	139	114	115	140	118	488
1981	111	370	253	332	133	151	116	183	134	110	134	306	193
1982	917	501	494	590	346	176	161	121	89	91	238	1,135	406
1983	467	566	571	1,248	1,253	307	192	143	117	117	351	881	518
1984	301	311	541	552	1,002	185	180	150	97	369	587	435	394
1985	298	654	315	349	326	186	138	209	105	129	207	179	255
1986	121	433	361	143	373	205	86	89	119	104	858	775	304
1987	347	759	479	246	155	124	127	71	100	76	136	282	238
1988	578	302	309	398	133	78	86	63	76	86	273	299	223
1989	1,086	991	730	702	318	620	611	156	163	294	438	260	528
1990	645	1,104	721	483	445	219	143	93	82	118	137	1,029	431
1991	474	1,478	781	1,047	1,890	375	190	137	114	146	161	1,431	682
1992	435	404	661	270	190	267	165	203	576	183	389	440	348
1993	472	328	605	530	573	217	155	150	155	125	143	487	329
1994	675	1,147	1,434	967	475	478	243	156	158	326	382	576	581
1995	528	776	694	519	241	216	146	122	112	249	380	448	366
1996	869	498	863	500	201	124	169	178	316	230	497	703	429
1997	780	593	724	271	372	1,221	295	170	150	391	235	506	475
1998	1,128	941	589	411	265	140	184	185	92	99	92	486	382
1999	1,318	524	698	377	397	310	191	87	79	78	103	145	359
2000	296	338	493	939	164	129	114	95	78	75	162	380	271
2001	422	1,160	450	384	189	238	306	180	245	410	535	847	442
2002	1,317	438	909	468	336	153	148	114	161	328	596	693	473
2003	417	1,459	479	368	1,075	264	305	213	250	149	250	330	457
2004	391	984	631	314	330	586	358	214	253	751	689	1,305	565
2005	520	520	336	480	233	283	143	165	233	158	165	253	289
2006	880	468	409	464	412	230	133	99	92	97	160	173	301
2007	440	197	364	194	119	91	82	58	74	103	128	213	172
2008	213	467	544	634	500	209	128	105	87	116	118	495	300
2009	365	180	474	476	645	224	480	159	678	693	398	657	455
2010	631	773	536	274	1,078	207	145	149	112	109	171	203	364
2011	338	446	711	1,157	518	228	246	112	295	123	206	629	416
2012	692	449	454	188	188	122	138	152	149	210	123	661	294
2013	918	408	437	622	433	188	228	167	126	104	121	378	345
2014	265	564	308	331	273	512	326	131	95	201	222	552	313

Non-Exceedance Percentiles

03590000 - Cypress Creek near Florence, Ala.

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	111	180	253	143	119	78	82	58	74	75	92	118	172
5th %	208	292	309	193	133	120	86	71	78	78	117	172	221
10th %	293	310	334	268	163	124	116	87	82	91	123	200	253
15th %	300	337	364	274	188	138	125	92	87	99	133	225	286
20th %	345	397	431	311	190	153	132	98	91	104	137	259	299
30th %	421	437	477	362	258	187	143	119	99	113	161	323	324
40th %	456	459	519	406	329	208	152	135	113	118	168	438	357
Median	524	510	578	472	372	221	169	150	123	138	226	486	375
60th %	609	565	620	496	420	233	190	156	152	184	259	532	422
70th %	701	683	702	563	505	279	210	168	168	236	380	630	455
80th %	887	809	731	708	588	308	256	181	246	330	450	695	477
90th %	1,091	1,108	950	975	1,010	481	310	197	297	393	605	896	567
Maximum	1,335	1,478	1,993	1,248	1,890	1,221	611	214	760	751	1,086	1,431	682
Average	609	614	661	528	477	272	202	142	186	215	314	527	395

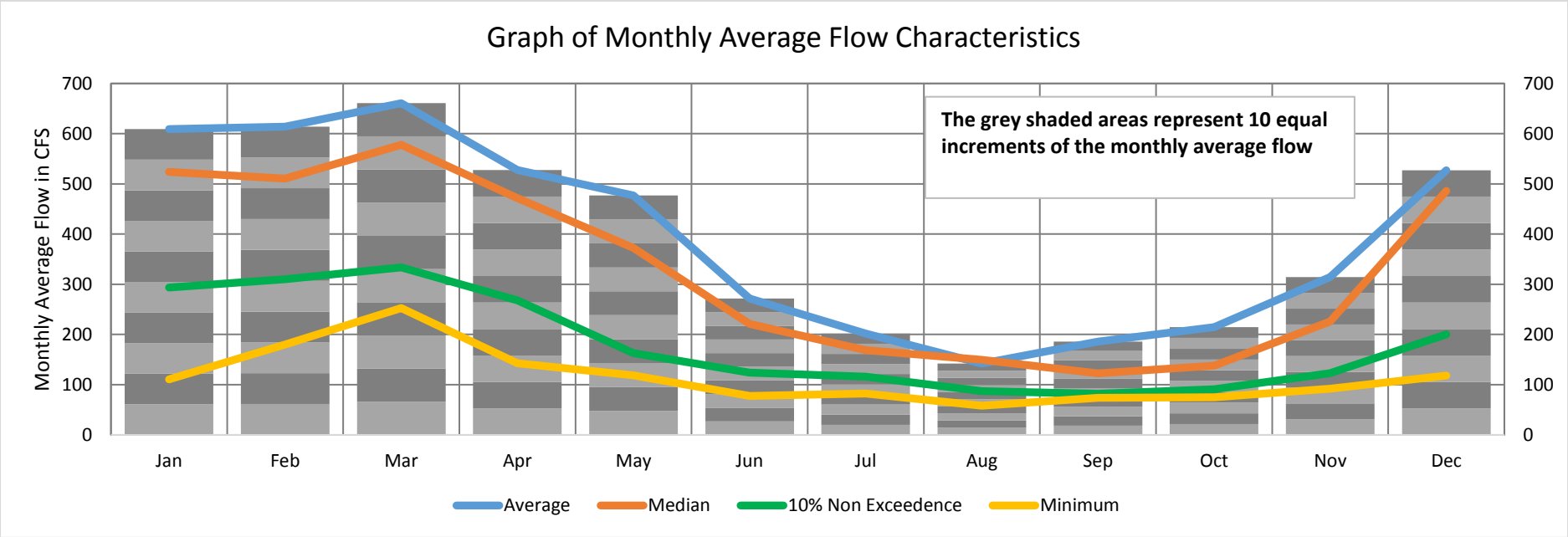
	Flows in CFS
Minimum	58.2
5th %	92
10th %	114
15th %	124
20th %	143
30th %	180
40th %	227
Median	303
60th %	381
70th %	478
80th %	588
90th %	784
Maximum	1,993
Average	396



Q10/Q50	0.38
Q10/Q90	0.15
	CFSM*
Qmin/DA	0.28
Q5/DA	0.44
Q10/DA	0.55
Q15/DA	0.59
Q20/DA	0.68
Q30/DA	0.86
Q40/DA	1.09
Q50/DA	1.45
Q60/DA	1.82
Q70/DA	2.29
Q80/DA	2.81
Q90/DA	3.75
Qmax/DA	9.53

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

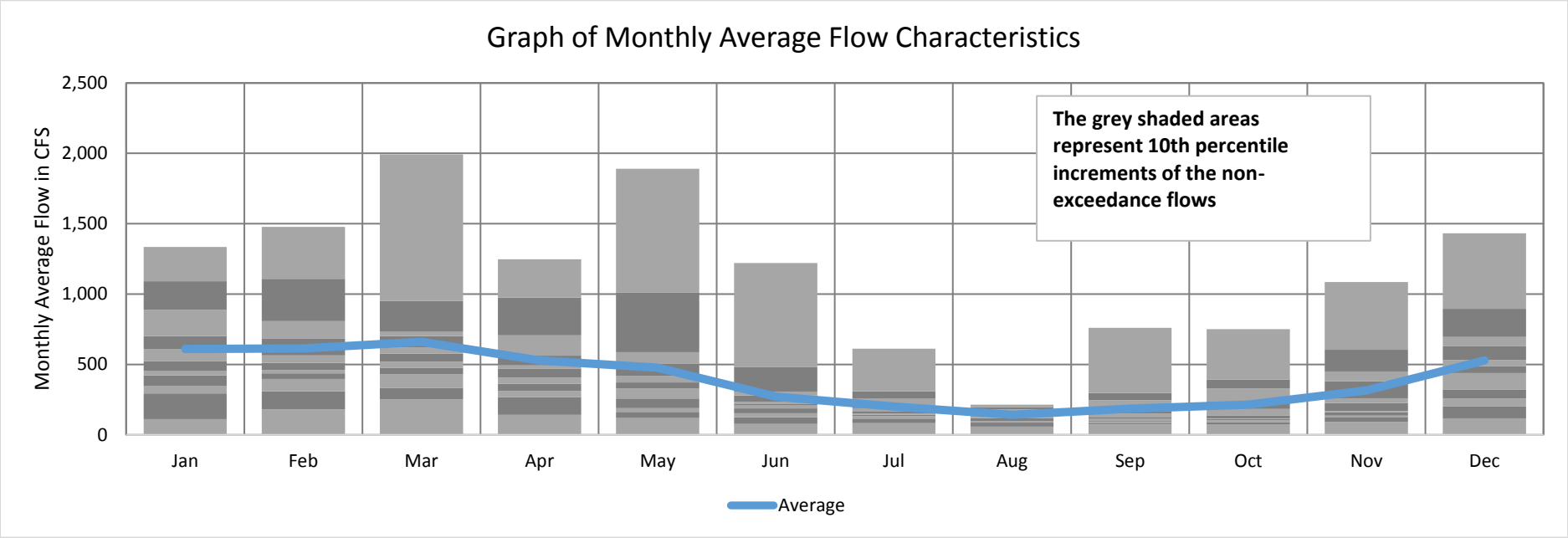
Site #: 03590000 Name: Cypress Creek near Florence, Ala.
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	609	614	661	528	477	272	202	142	186	215	314	527
100%	1,335	1,478	1,993	1,248	1,890	1,221	611	214	760	751	1,086	1,431
98%	1,322	1,463	1,863	1,177	1,393	752	509	213	696	706	908	1,333
95%	1,317	1,175	1,454	1,111	1,087	588	364	209	581	529	811	1,143
90%	1,091	1,108	950	975	1,010	481	310	197	297	393	605	896
75%	802	762	721	625	566	287	231	173	235	302	391	658
50%	524	510	578	472	372	221	169	150	123	138	226	486
25%	385	421	453	332	225	183	138	110	94	108	142	295
10%	293	310	334	268	163	124	116	87	82	91	123	200
5%	208	292	309	193	133	120	86	71	78	78	117	172
2%	118	194	296	178	130	88	85	62	76	75	101	139
0%	111	180	253	143	119	78	82	58	74	75	92	118

Site #: 03590000 Name: Cypress Creek near Florence, Ala.
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 209 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	609	614	661	528	477	272	202	142	186	215	314	527
100%	1,335	1,478	1,993	1,248	1,890	1,221	611	214	760	751	1,086	1,431
98%	1,322	1,463	1,863	1,177	1,393	752	509	213	696	706	908	1,333
95%	1,317	1,175	1,454	1,111	1,087	588	364	209	581	529	811	1,143
90%	1,091	1,108	950	975	1,010	481	310	197	297	393	605	896
75%	802	762	721	625	566	287	231	173	235	302	391	658
50%	524	510	578	472	372	221	169	150	123	138	226	486
25%	385	421	453	332	225	183	138	110	94	108	142	295
10%	293	310	334	268	163	124	116	87	82	91	123	200
5%	208	292	309	193	133	120	86	71	78	78	117	172
2%	118	194	296	178	130	88	85	62	76	75	101	139
0%	111	180	253	143	119	78	82	58	74	75	92	118

Monthly Flows (in CFS) for

03592500 - Bear Creek at Bishop, Ala. (represents streamflow for 06030006)

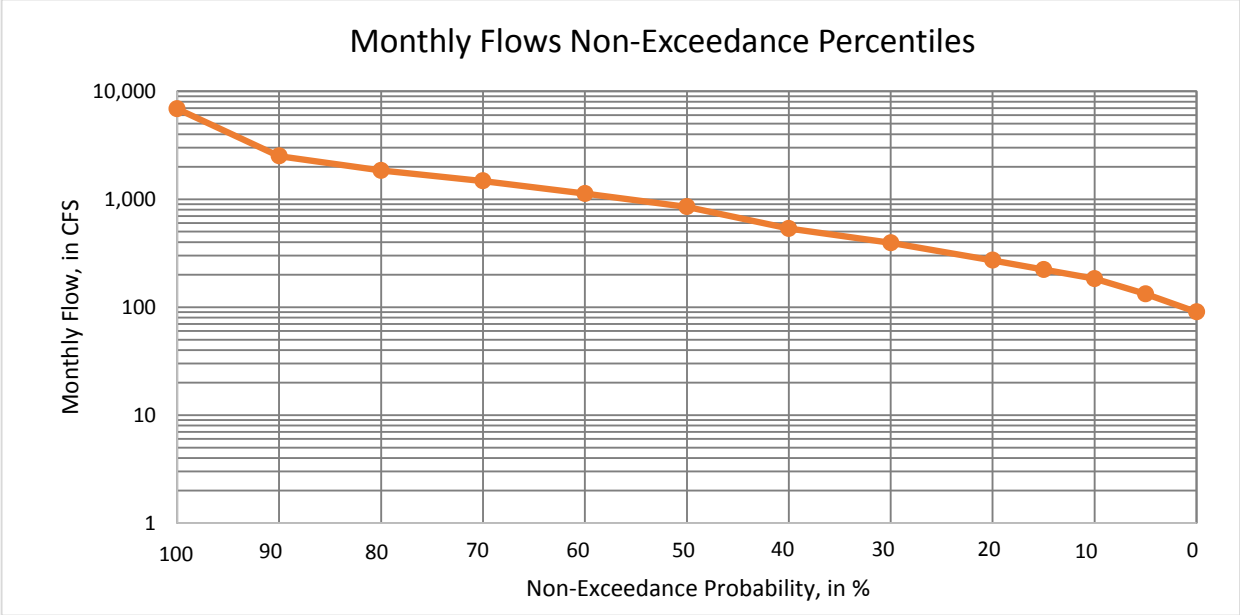
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	4,078	2,350	5,903	2,258	1,690	1,019	539	716	1,078	2,674	1,425	1,210	2,083
1976	1,918	1,815	2,325	1,088	710	677	476	300	495	343	787	861	978
1977	1,421	945	4,608	2,315	293	243	149	107	356	769	2,464	1,593	1,274
1978	1,497	632	1,501	538	3,069	1,378	198	115	90	181	503	613	864
1979	3,372	1,151	1,838	1,934	850	362	642	334	1,239	910	3,660	1,759	1,504
1980	1,159	826	4,959	3,336	2,377	805	406	170	189	1,277	1,717	505	1,482
1981	257	693	531	675	184	263	490	337	251	1,120	939	584	525
1982	2,587	1,686	702	1,886	686	311	257	472	192	1,365	1,111	3,097	1,195
1983	1,805	1,862	2,260	4,843	3,851	1,479	400	227	328	1,128	1,405	4,271	1,989
1984	1,675	651	1,256	1,687	5,047	481	247	231	104	1,353	1,742	1,211	1,316
1985	525	2,247	382	436	2,445	275	251	380	299	1,297	1,119	749	859
1986	167	495	572	195	397	915	187	119	120	1,089	2,502	3,560	862
1987	1,220	863	2,756	309	205	196	149	107	123	813	1,004	1,039	734
1988	692	481	319	561	135	100	122	105	283	438	1,770	1,973	581
1989	3,846	2,255	3,083	1,040	662	2,168	2,048	334	664	2,221	2,045	1,300	1,805
1990	3,043	3,774	2,152	810	1,339	497	197	133	123	265	883	4,498	1,467
1991	3,931	3,159	3,607	4,702	6,872	2,157	559	217	222	202	1,460	4,780	2,657
1992	946	516	1,128	413	216	463	303	393	512	332	2,116	1,889	770
1993	1,788	881	1,248	1,512	1,070	285	257	243	368	261	1,673	1,464	921
1994	1,604	4,010	2,451	1,898	634	675	991	466	349	228	1,742	1,759	1,382
1995	1,611	2,074	2,547	1,488	1,208	429	270	361	136	176	1,754	1,750	1,145
1996	2,461	1,305	1,814	1,628	480	296	233	200	367	318	2,241	3,905	1,272
1997	2,495	1,798	2,260	544	1,684	4,618	1,240	453	310	559	1,641	1,475	1,586
1998	3,536	2,283	1,712	807	891	393	421	530	186	125	1,177	1,612	1,136
1999	3,594	1,440	1,828	795	1,122	388	477	193	126	120	670	949	976
2000	654	355	565	2,970	352	225	179	153	139	144	1,170	1,602	707
2001	1,995	2,253	1,413	3,041	552	2,085	340	418	742	574	1,344	3,270	1,493
2002	1,945	1,540	1,290	1,456	2,667	295	216	206	402	694	2,853	2,846	1,367
2003	855	2,670	1,717	875	3,906	945	466	445	1,298	930	982	1,141	1,345
2004	1,118	3,627	2,414	272	192	373	372	443	929	1,747	2,341	6,111	1,653
2005	1,475	1,363	801	1,268	286	438	505	345	761	224	1,867	2,015	941
2006	2,618	1,339	450	460	849	191	129	134	113	225	2,302	892	805
2007	1,782	383	227	225	134	97	192	99	104	100	425	477	355
2008	301	862	898	944	1,164	449	144	137	129	131	871	3,310	780
2009	1,451	394	1,740	1,253	1,637	484	145	137	1,487	2,172	2,181	2,362	1,294
2010	2,106	1,591	629	403	1,025	431	218	326	149	204	1,166	904	758
2011	1,388	498	1,678	3,793	1,702	436	313	247	640	254	1,268	2,026	1,189
2012	2,225	1,081	685	191	223	150	132	164	378	624	953	1,439	687
2013	3,074	1,002	1,304	1,229	1,499	391	965	282	285	132	1,160	1,729	1,092
2014	947	1,108	452	993	767	877	420	307	176	873	1,511	1,953	863

Non-Exceedance Percentiles

03592500 - Bear Creek at Bishop, Ala. (represents streamflow for 06030006)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	167	355	227	191	134	97	122	99	90	100	425	477	355
5th %	299	393	378	224	181	148	132	107	104	125	661	580	579
10th %	641	494	452	305	204	195	145	114	120	132	862	735	705
15th %	831	513	560	411	222	240	149	131	123	171	931	887	755
20th %	947	647	618	455	291	273	185	136	129	198	976	940	778
30th %	1,338	862	869	641	530	306	210	168	168	227	1,148	1,211	863
40th %	1,488	1,049	1,277	849	700	390	249	212	210	297	1,232	1,470	962
Median	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671	1,140
60th %	1,929	1,560	1,770	1,343	1,139	470	383	315	352	724	1,691	1,811	1,273
70th %	2,295	1,829	2,185	1,646	1,540	675	434	339	385	916	1,759	2,018	1,352
80th %	2,703	2,253	2,422	1,999	1,837	921	493	398	644	1,158	2,129	3,132	1,484
90th %	3,542	2,719	3,135	3,070	3,147	1,540	674	454	944	1,403	2,353	3,942	1,668
Maximum	4,078	4,010	5,903	4,843	6,872	4,618	2,048	716	1,487	2,674	3,660	6,111	2,657
Average	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012	1,167

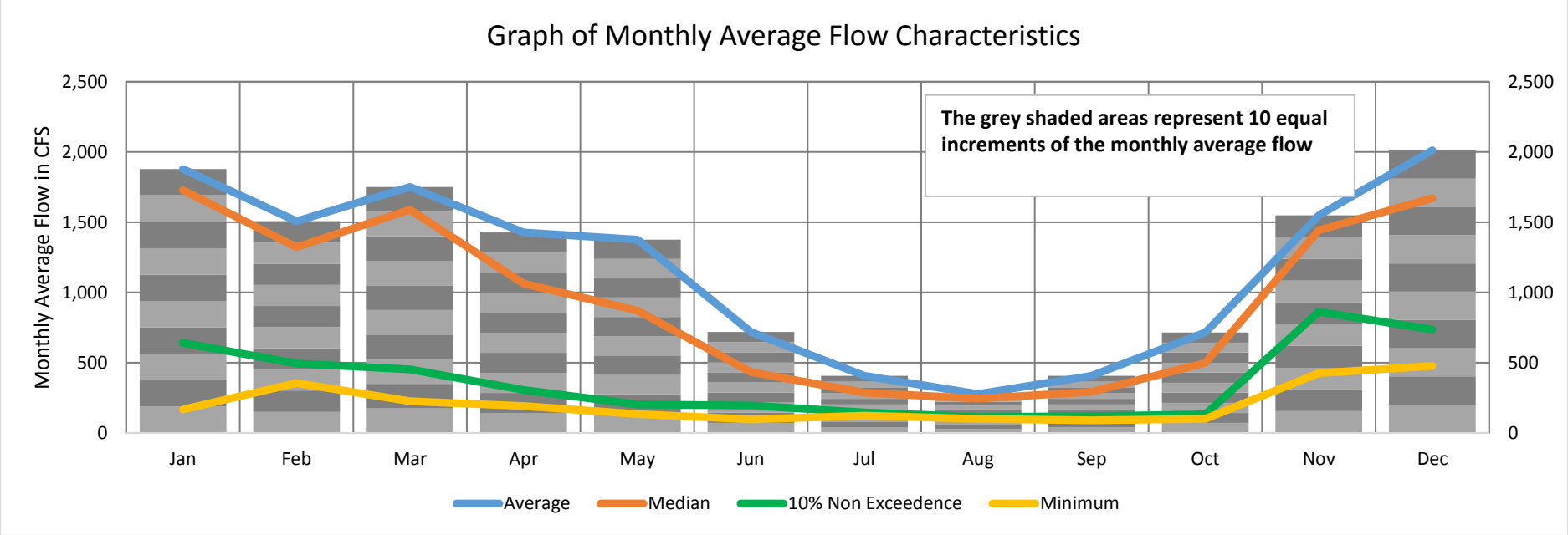
	Flows in CFS
Minimum	90.1
5th %	132
10th %	183
15th %	223
20th %	272
30th %	394
40th %	535
Median	849
60th %	1,124
70th %	1,475
80th %	1,843
90th %	2,506
Maximum	6,872
Average	1,169



Q10/Q50	0.22
Q10/Q90	0.07
	CFSM*
Qmin/DA	0.14
Q5/DA	0.20
Q10/DA	0.27
Q15/DA	0.33
Q20/DA	0.41
Q30/DA	0.59
Q40/DA	0.80
Q50/DA	1.27
Q60/DA	1.69
Q70/DA	2.21
Q80/DA	2.76
Q90/DA	3.76
Qmax/DA	10.30

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

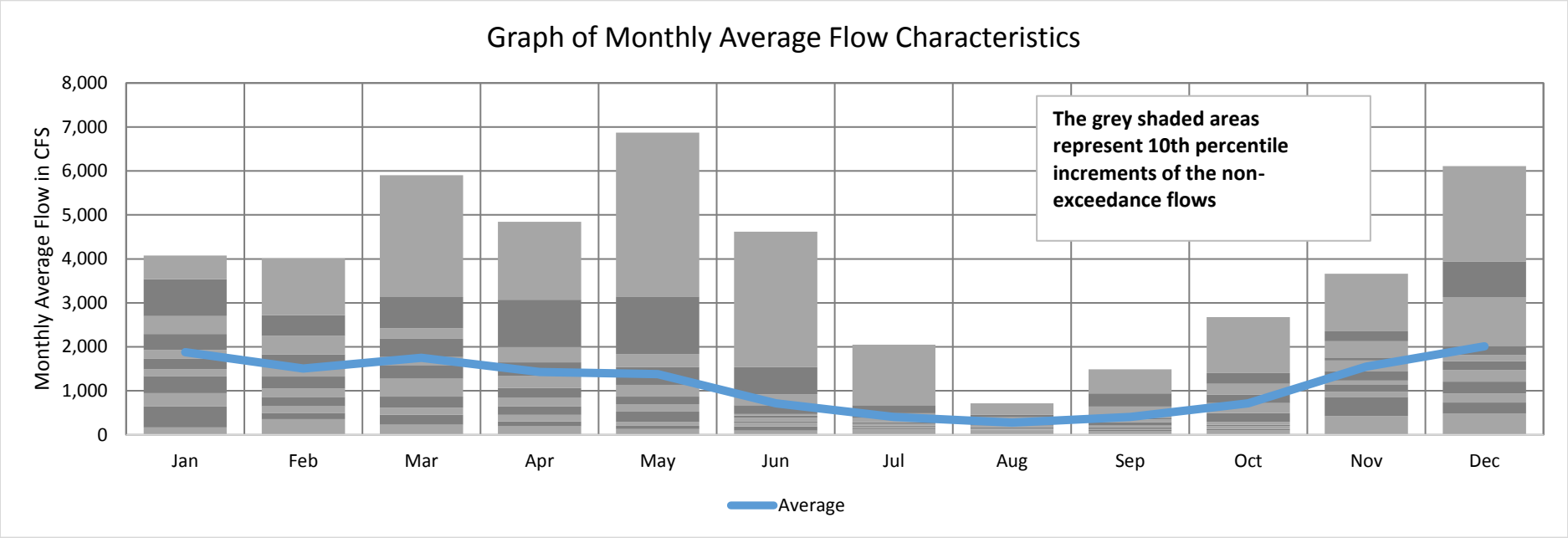
Site #: 03592500 Name: Bear Creek at Bishop, Ala. (represents streamflow for 06030006)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012
100%	4,078	4,010	5,903	4,843	6,872	4,618	2,048	716	1,487	2,674	3,660	6,111
98%	3,963	3,826	5,167	4,733	5,449	2,707	1,418	571	1,339	2,321	3,031	5,073
95%	3,850	3,635	4,626	3,839	3,963	2,158	1,003	475	1,242	2,175	2,519	4,512
90%	3,542	2,719	3,135	3,070	3,147	1,540	674	454	944	1,403	2,353	3,942
75%	2,518	2,117	2,276	1,889	1,685	823	476	365	499	1,097	1,911	2,483
50%	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671
25%	1,148	793	698	542	386	293	196	149	139	219	1,084	1,116
10%	641	494	452	305	204	195	145	114	120	132	862	735
5%	299	393	378	224	181	148	132	107	104	125	661	580
2%	238	377	299	194	135	99	128	104	101	115	486	499
0%	167	355	227	191	134	97	122	99	90	100	425	477

Site #: 03592500 Name: Bear Creek at Bishop, Ala. (represents streamflow for 06030006)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 667 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	1,879	1,506	1,750	1,427	1,377	718	406	277	406	715	1,549	2,012
100%	4,078	4,010	5,903	4,843	6,872	4,618	2,048	716	1,487	2,674	3,660	6,111
98%	3,963	3,826	5,167	4,733	5,449	2,707	1,418	571	1,339	2,321	3,031	5,073
95%	3,850	3,635	4,626	3,839	3,963	2,158	1,003	475	1,242	2,175	2,519	4,512
90%	3,542	2,719	3,135	3,070	3,147	1,540	674	454	944	1,403	2,353	3,942
75%	2,518	2,117	2,276	1,889	1,685	823	476	365	499	1,097	1,911	2,483
50%	1,729	1,322	1,589	1,064	871	433	286	245	292	499	1,443	1,671
25%	1,148	793	698	542	386	293	196	149	139	219	1,084	1,116
10%	641	494	452	305	204	195	145	114	120	132	862	735
5%	299	393	378	224	181	148	132	107	104	125	661	580
2%	238	377	299	194	135	99	128	104	101	115	486	499
0%	167	355	227	191	134	97	122	99	90	100	425	477

Monthly Flows (in CFS) for
06030005 - Pickwick Lake Subbasin in Alabama

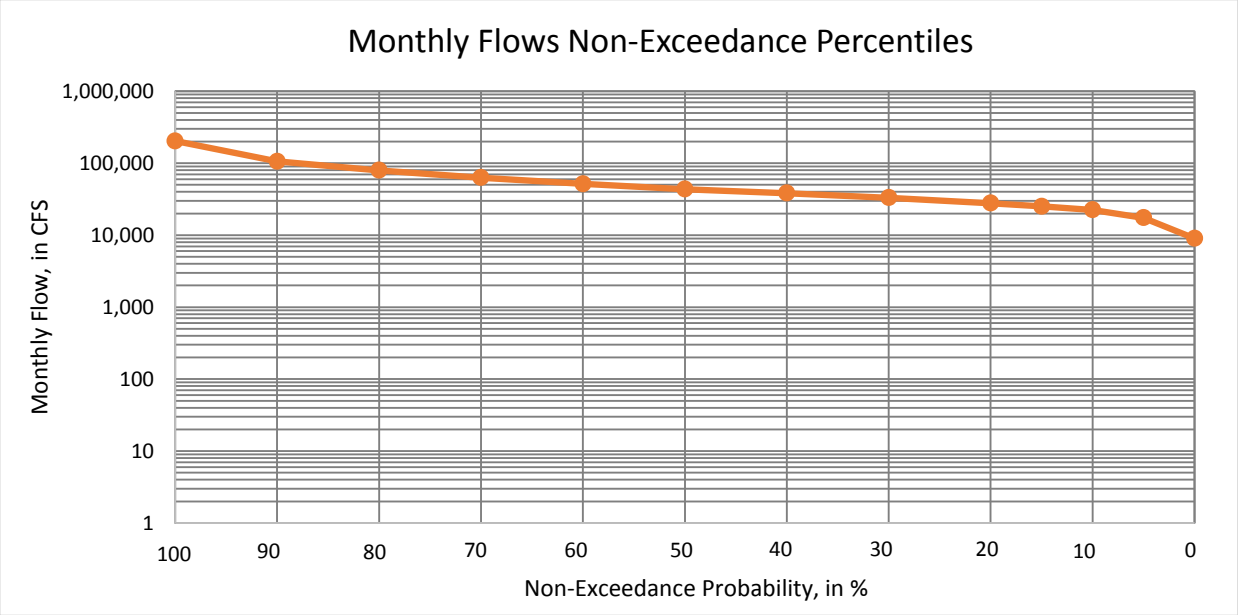
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975	117,074	124,988	159,623	96,546	54,352	48,427	49,637	41,888	44,929	74,658	60,199	62,031	77,643
1976	89,278	65,995	57,863	29,258	36,971	45,820	52,064	41,969	34,939	40,598	41,982	62,859	49,966
1977	71,144	40,622	93,916	113,026	40,909	37,676	34,736	31,894	47,233	62,815	117,192	117,065	67,447
1978	103,469	69,584	70,539	25,736	53,734	39,429	34,507	44,499	33,978	22,584	22,658	49,377	47,513
1979	121,383	74,437	128,189	76,733	51,886	58,210	60,580	52,908	60,103	60,907	100,988	69,314	76,344
1980	83,524	56,956	153,213	81,947	60,130	38,749	38,372	32,874	30,229	25,076	33,509	27,325	55,243
1981	22,973	49,087	26,132	30,859	15,834	39,344	32,017	31,846	28,737	24,971	23,723	47,352	30,929
1982	125,760	116,449	79,337	36,266	24,839	28,539	37,567	49,195	39,477	35,809	45,289	119,560	61,320
1983	71,292	82,315	48,663	94,103	97,224	57,235	45,042	42,570	29,023	22,912	43,835	106,184	61,592
1984	69,456	58,032	68,965	55,759	144,811	38,025	45,500	50,016	40,010	33,201	43,383	52,034	58,421
1985	42,978	86,581	32,068	16,853	25,194	20,532	25,883	41,093	26,576	31,895	32,667	43,614	35,199
1986	25,265	50,175	36,626	10,697	11,160	15,953	19,929	16,993	22,736	27,639	63,605	88,750	32,361
1987	69,705	75,276	86,158	33,706	30,810	28,597	29,636	32,225	22,584	25,065	23,397	24,912	40,028
1988	57,158	39,563	20,446	19,218	9,015	12,251	15,585	17,585	22,249	19,678	41,861	39,908	26,125
1989	108,464	88,218	102,827	50,307	48,981	113,336	91,002	46,406	58,049	101,348	87,138	73,986	80,818
1990	121,771	203,689	125,974	28,846	53,278	38,082	33,971	41,825	30,201	32,175	38,446	129,561	72,509
1991	97,673	127,962	112,134	83,856	73,700	42,162	36,849	41,525	37,599	28,512	37,886	147,646	72,075
1992	84,866	44,270	68,581	19,999	22,158	46,028	42,146	37,041	43,471	42,137	76,169	102,336	52,566
1993	112,930	56,677	100,821	59,988	40,239	29,475	25,321	34,076	32,053	22,429	31,668	62,105	50,734
1994	96,060	169,439	137,188	162,179	34,487	40,836	51,991	51,153	49,573	53,900	50,849	69,320	79,903
1995	79,104	91,767	86,261	18,637	23,151	23,103	27,561	39,229	40,569	67,207	83,036	67,424	53,748
1996	118,060	115,902	92,684	51,506	38,889	47,257	29,919	45,065	46,166	51,163	64,684	113,144	67,645
1997	111,249	89,200	138,053	33,536	62,618	104,357	48,720	36,865	37,645	48,671	50,658	39,639	66,695
1998	104,270	118,694	89,216	106,269	69,943	62,484	32,672	39,702	30,642	26,605	27,882	47,758	62,622
1999	108,492	68,270	72,403	14,695	42,997	25,434	55,866	32,683	25,358	24,332	31,014	29,587	44,284
2000	34,155	31,033	43,209	78,575	17,411	19,485	22,199	35,634	22,582	33,903	36,490	35,200	34,126
2001	47,983	80,128	63,644	25,869	18,938	33,482	26,035	52,380	38,414	36,349	35,396	71,357	43,988
2002	94,434	54,633	64,625	42,478	47,325	19,623	23,390	26,080	31,608	34,515	73,856	107,830	51,783
2003	55,306	144,033	85,932	47,959	155,290	58,887	66,010	55,886	49,914	43,341	57,029	78,912	74,541
2004	70,963	111,008	69,911	13,330	14,063	43,737	41,506	34,748	82,527	56,593	91,869	183,668	67,581
2005	75,231	72,942	55,942	56,337	26,980	34,716	45,793	34,398	38,444	31,127	31,954	41,675	45,292
2006	69,130	52,914	26,967	33,679	27,837	19,291	19,276	26,887	30,226	35,564	66,240	34,878	36,771
2007	67,446	29,105	22,878	12,363	12,617	20,771	17,903	26,522	13,525	13,785	13,904	13,755	22,066
2008	23,793	51,015	51,494	30,330	18,051	18,618	17,433	29,520	15,247	16,498	14,187	81,755	30,616
2009	94,300	36,566	52,591	45,511	91,006	36,843	23,883	34,592	51,937	76,662	91,515	140,588	64,987
2010	102,195	130,632	49,893	23,374	41,708	25,468	17,424	29,172	25,276	24,771	36,477	65,802	47,221
2011	58,105	42,343	131,240	115,393	40,598	29,373	29,608	27,980	46,033	30,290	56,004	128,386	61,430
2012	116,141	80,483	67,580	12,268	12,821	20,575	22,253	34,174	35,906	40,576	40,950	53,212	44,641
2013	145,014	131,847	79,020	66,520	113,646	63,409	104,859	45,642	42,686	39,994	42,970	94,491	80,718
2014	90,463	88,199	46,527	36,940	24,443	31,877	25,212	32,245	32,257	54,958	56,615	62,389	48,284

Non-Exceedance Percentiles

06030005 - Pickwick Lake Subbasin in Alabama

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755	22,066
5th %	25,191	36,289	25,970	12,359	12,544	18,485	17,433	25,655	21,899	19,519	22,235	27,205	30,391
10th %	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349	32,218
15th %	54,207	43,981	42,221	18,369	17,175	20,395	21,859	28,993	24,895	24,119	30,545	38,973	35,038
20th %	57,916	49,957	48,236	19,843	18,761	20,732	23,162	31,381	26,332	24,931	31,897	41,321	39,376
30th %	69,630	56,064	54,937	27,953	24,720	27,617	25,715	32,552	30,218	27,329	36,153	48,892	45,096
40th %	73,656	67,360	66,398	32,465	29,621	30,916	29,625	34,308	31,875	31,588	39,948	62,075	49,293
Median	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613	53,157
60th %	95,085	84,022	81,975	48,898	42,223	38,987	37,136	40,258	38,426	37,807	50,734	72,409	61,364
70th %	103,709	89,970	90,256	57,433	52,304	42,635	43,015	41,912	41,204	42,498	57,980	90,472	65,499
80th %	111,585	116,898	104,688	79,250	60,628	47,491	48,903	45,181	46,059	54,112	67,763	108,893	68,531
90th %	118,392	130,753	131,835	97,518	91,627	59,246	56,338	50,130	50,116	63,254	87,576	128,503	76,474
Maximum	145,014	203,689	159,623	162,179	155,290	113,336	104,859	55,886	82,527	101,348	117,192	183,668	80,818
Average	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667	54,444

	Flows in CFS
Minimum	9,015.3
5th %	17,424
10th %	22,412
15th %	25,074
20th %	27,798
30th %	33,103
40th %	38,397
Median	43,543
60th %	51,658
70th %	62,828
80th %	79,495
90th %	106,192
Maximum	203,689
Average	54,558



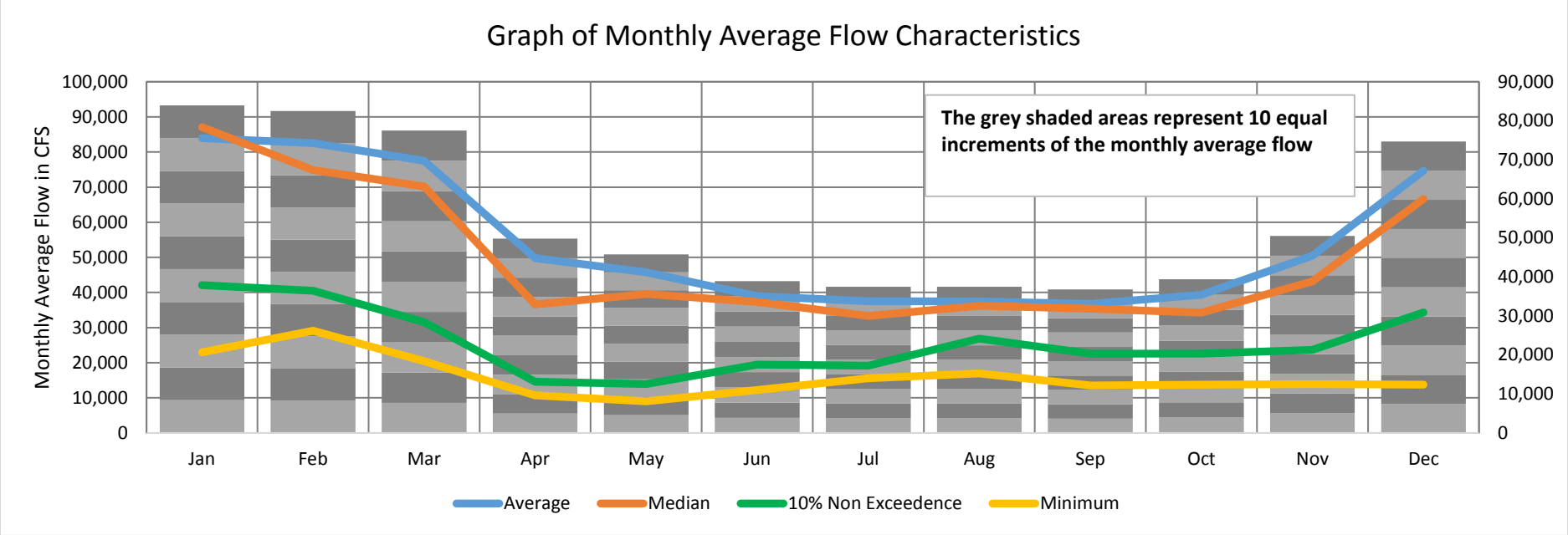
Q10/Q50	0.51
Q10/Q90	0.21
	CFSM*
Qmin/DA	0.27
Q5/DA	0.53
Q10/DA	0.68
Q15/DA	0.76
Q20/DA	0.85
Q30/DA	1.01
Q40/DA	1.17
Q50/DA	1.33
Q60/DA	1.58
Q70/DA	1.92
Q80/DA	2.42
Q90/DA	3.24
Qmax/DA	6.21

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Site #: 06030005 Name: Pickwick Lake Subbasin in Alabama

Period of Record: Jan-1975 - Dec-2014

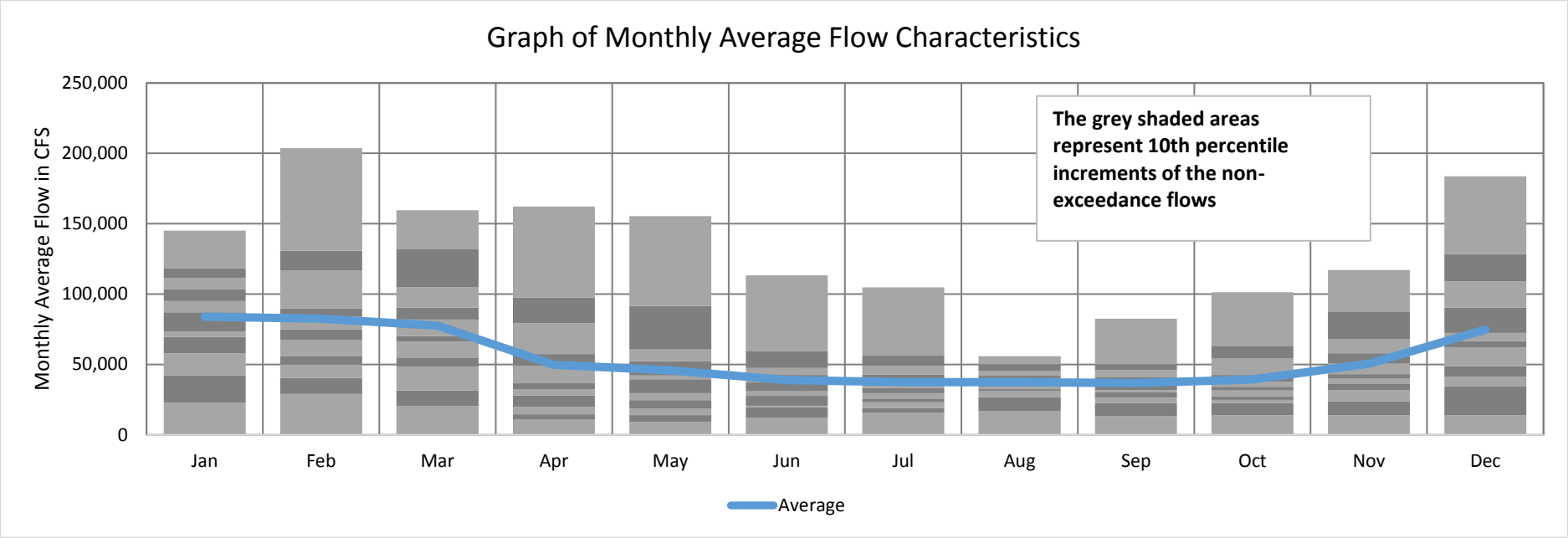
STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667
100%	145,014	203,689	159,623	162,179	155,290	113,336	104,859	55,886	82,527	101,348	117,192	183,668
98%	129,996	176,974	154,623	125,686	147,116	106,332	94,051	53,563	65,036	82,093	104,553	155,571
95%	121,970	145,304	138,811	113,145	115,204	65,456	67,260	52,407	58,152	74,758	92,324	140,941
90%	118,392	130,753	131,835	97,518	91,627	59,246	56,338	50,130	50,116	63,254	87,576	128,503
75%	108,471	112,232	95,643	69,074	53,888	45,872	45,573	43,052	43,835	49,294	63,875	103,298
50%	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613
25%	68,709	52,439	51,093	25,146	22,903	24,852	24,880	32,142	28,951	25,073	33,298	46,418
10%	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349
5%	25,191	36,289	25,970	12,359	12,544	18,485	17,433	25,655	21,899	19,519	22,235	27,205
2%	23,613	30,609	22,343	11,923	10,688	15,139	17,020	17,454	14,868	15,901	14,125	22,458
0%	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755

Site #: 06030005 Name: Pickwick Lake Subbasin in Alabama
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 32,790 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	83,951	82,526	77,483	49,786	45,751	38,937	37,496	37,475	36,768	39,380	50,479	74,667
100%	145,014	203,689	159,623	162,179	155,290	113,336	104,859	55,886	82,527	101,348	117,192	183,668
98%	129,996	176,974	154,623	125,686	147,116	106,332	94,051	53,563	65,036	82,093	104,553	155,571
95%	121,970	145,304	138,811	113,145	115,204	65,456	67,260	52,407	58,152	74,758	92,324	140,941
90%	118,392	130,753	131,835	97,518	91,627	59,246	56,338	50,130	50,116	63,254	87,576	128,503
75%	108,471	112,232	95,643	69,074	53,888	45,872	45,573	43,052	43,835	49,294	63,875	103,298
50%	87,072	74,857	70,225	36,603	39,564	37,260	33,322	36,249	35,423	34,209	43,176	66,613
25%	68,709	52,439	51,093	25,146	22,903	24,852	24,880	32,142	28,951	25,073	33,298	46,418
10%	42,096	40,516	31,558	14,559	13,939	19,466	19,139	26,850	22,583	22,568	23,690	34,349
5%	25,191	36,289	25,970	12,359	12,544	18,485	17,433	25,655	21,899	19,519	22,235	27,205
2%	23,613	30,609	22,343	11,923	10,688	15,139	17,020	17,454	14,868	15,901	14,125	22,458
0%	22,973	29,105	20,446	10,697	9,015	12,251	15,585	16,993	13,525	13,785	13,904	13,755

Monthly Flows (in CFS) for

023432415 - Chattahoochee River downstream from W.F. George Dam, Ga. (represents streamflow for 03130003)

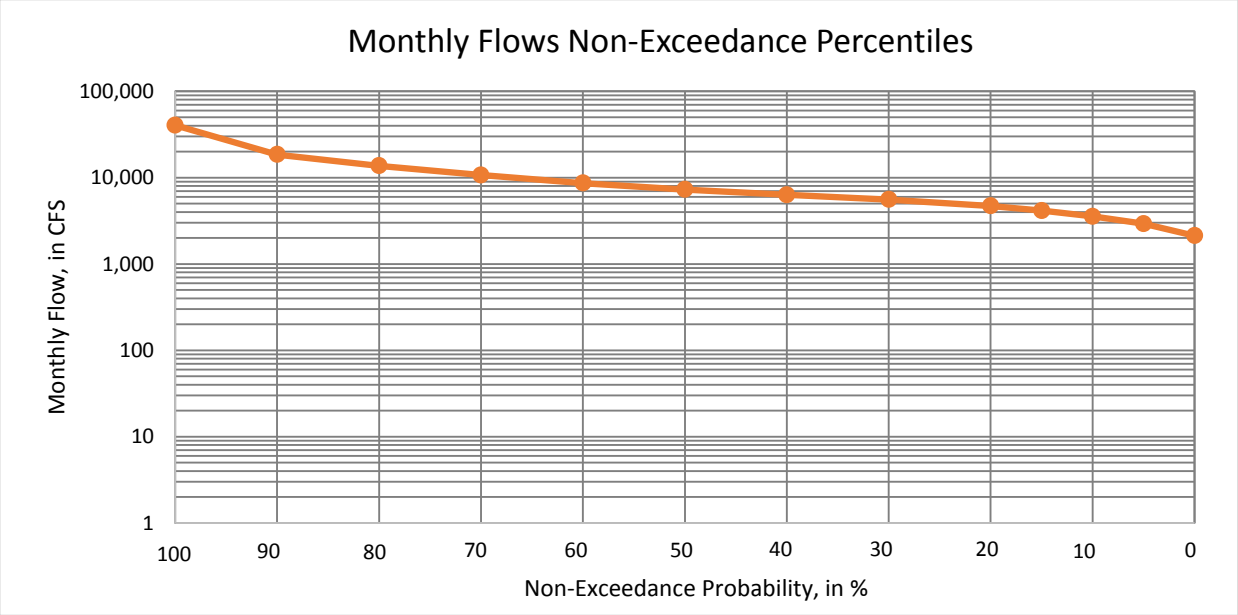
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1975										15,526	12,600	12,289	
1976	16,412	14,875	19,759	14,301	14,707	12,751	9,681	7,191	6,563	6,251	9,870	18,247	12,550
1977	14,945	8,538	21,722	18,186	8,213	6,305	5,237	6,579	6,157	5,762	15,069	10,644	10,621
1978	28,415	16,509	19,421	10,347	16,981	8,494	5,959	11,128	7,426	5,862	4,526	5,237	11,696
1979	11,548	21,032	18,891	29,883	11,754	7,910	6,316	7,085	7,302	7,631	10,662	8,427	12,282
1980	11,522	13,124	31,305	24,910	18,343	8,453	7,280	7,230	5,929	4,978	4,969	4,734	11,897
1981	4,689	14,804	7,011	12,494	4,870	5,176	5,426	6,128	4,990	3,405	3,047	4,034	6,269
1982	13,532	23,427	9,915	13,178	7,924	6,204	6,305	8,599	5,825	5,368	5,837	19,412	10,383
1983	14,760	18,465	24,002	23,993	8,778	8,272	7,256	6,639	6,233	6,458	7,142	22,067	12,808
1984	17,453	15,016	19,508	13,718	14,354	6,858	7,290	13,603	7,390	5,046	5,156	7,091	11,038
1985	6,004	14,036	9,250	7,134	4,518	4,528	4,670	7,912	7,179	5,908	3,712	8,241	6,880
1986	6,920	9,545	12,316	5,305	4,782	3,959	4,672	2,378	2,336	2,454	7,398	10,113	6,000
1987	15,236	14,619	17,829	9,717	5,674	9,311	9,165	5,406	5,630	5,320	3,116	4,914	8,801
1988	9,098	10,437	7,462	7,026	6,387	4,566	2,493	2,121	4,294	5,617	6,166	5,474	5,896
1989	5,644	4,811	8,284	14,169	6,811	11,155	14,275	8,170	7,707	10,455	10,922	17,959	10,063
1990	23,384	26,747	40,382	12,956	8,459	8,571	5,084	5,298	4,539	4,583	5,611	5,067	12,491
1991	7,758	11,468	15,869	8,959	17,383	10,608	9,485	8,585	9,834	7,791	5,306	8,654	10,147
1992	12,209	16,342	14,857	8,346	6,719	5,195	6,618	6,206	8,050	6,672	21,239	22,420	11,203
1993	20,720	15,113	21,325	14,795	10,185	6,029	5,630	6,490	5,054	5,428	5,971	7,123	10,308
1994	8,230	15,438	14,204	9,409	7,352	5,324	33,827	11,280	11,003	9,376	9,735	11,968	12,273
1995	11,388	23,659	20,270	7,732	7,057	4,542	5,773	6,435	5,483	8,395	12,137	11,593	10,295
1996	14,884	24,773	27,258	12,725	9,744	6,736	7,235	6,305	6,161	6,815	5,355	8,530	11,306
1997	13,151	19,594	16,789	10,221	9,349	10,041	9,172	6,863	7,001	5,957	10,392	21,058	11,591
1998	20,080	30,222	34,348	18,917	12,102	6,008	7,091	6,229	5,721	5,022	6,319	5,744	13,053
1999	6,575	10,680	8,620	4,906	4,510	7,412	4,810	7,065	3,887	3,005	3,142	3,676	5,659
2000	5,865	8,464	6,722	9,113	5,037	3,953	3,129	3,597	3,039	2,808	3,346	5,759	5,044
2001	7,209	5,940	25,791	12,128	5,395	9,247	4,594	4,487	3,045	2,769	2,870	3,063	7,226
2002	4,356	7,295	6,987	6,637	3,955	3,374	3,317	2,946	2,637	2,416	6,471	10,347	5,046
2003	5,911	11,959	18,526	12,840	20,686	18,099	17,584	10,041	5,848	5,578	7,234	8,847	11,939
2004	9,789	14,892	6,132	5,311	3,775	3,759	5,662	4,858	13,053	6,558	12,298	12,956	8,195
2005	10,077	13,124	21,834	22,317	8,076	12,164	21,161	14,919	6,573	4,052	6,296	9,171	12,482
2006	11,656	11,691	12,316	7,616	7,386	3,679	3,353	2,631	3,417	3,144	6,454	5,189	6,516
2007	9,942	7,489	8,816	6,210	4,014	2,904	2,641	3,173	2,739	2,790	2,597	2,326	4,625
2008	5,337	12,004	8,424	7,298	4,029	2,401	2,526	6,323	2,538	3,565	5,359	12,831	6,022
2009	8,368	4,459	22,541	21,075	9,482	5,230	3,421	3,964	13,913	14,860	22,100	39,950	14,177
2010	24,040	23,940	21,110	8,266	13,790	5,606	4,223	4,347	2,917	4,229	3,739	6,345	10,156
2011	5,563	10,440	14,210	11,380	4,415	3,552	3,602	4,032	4,797	3,555	4,046	2,359	5,960
2012	8,090	6,269	9,776	6,146	3,048	3,344	4,020	2,544	2,923	3,108	3,497	2,771	4,622
2013	5,948	24,450	13,020	9,585	12,120	8,709	17,030	12,010	5,143	4,705	4,629	16,320	11,075
2014	13,560	15,300	11,310	27,040	7,972	4,918	4,980	4,976	4,348	4,482	3,724	6,552	9,036

Non-Exceedance Percentiles

023432415 - Chattahoochee River downstream from W.F. George Dam, Ga. (represents streamflow for 03130003)

Flows in CFS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minimum	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326	4,622
5th %	5,272	5,827	6,961	5,310	3,937	3,300	2,630	2,527	2,627	2,753	3,038	2,750	5,002
10th %	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615	5,537
15th %	5,897	8,171	8,382	6,909	4,482	3,735	3,401	3,470	3,004	3,093	3,474	4,629	5,941
20th %	5,981	9,142	8,737	7,232	4,676	3,957	3,853	4,005	3,268	3,353	3,722	5,037	6,013
30th %	7,428	10,995	10,473	8,298	5,507	4,707	4,671	4,905	4,424	4,176	4,598	5,663	7,019
40th %	8,514	12,228	13,257	9,444	6,860	5,249	5,115	6,143	5,072	4,869	5,335	6,876	9,241
Median	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479	10,295
60th %	11,634	14,991	18,818	12,678	8,410	6,834	6,313	6,627	6,112	5,675	6,373	9,548	10,955
70th %	13,549	15,981	20,066	13,502	9,639	8,380	7,247	7,149	6,569	6,045	7,283	11,706	11,477
80th %	15,061	20,169	21,767	16,152	12,109	8,924	9,168	8,336	7,337	6,701	10,446	13,629	12,073
90th %	20,208	24,042	26,084	22,652	15,162	10,717	14,826	11,158	8,407	8,493	12,328	19,577	12,503
Maximum	28,415	30,222	40,382	29,883	20,686	18,099	33,827	14,919	13,913	15,526	22,100	39,950	14,177
Average	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238	9,426

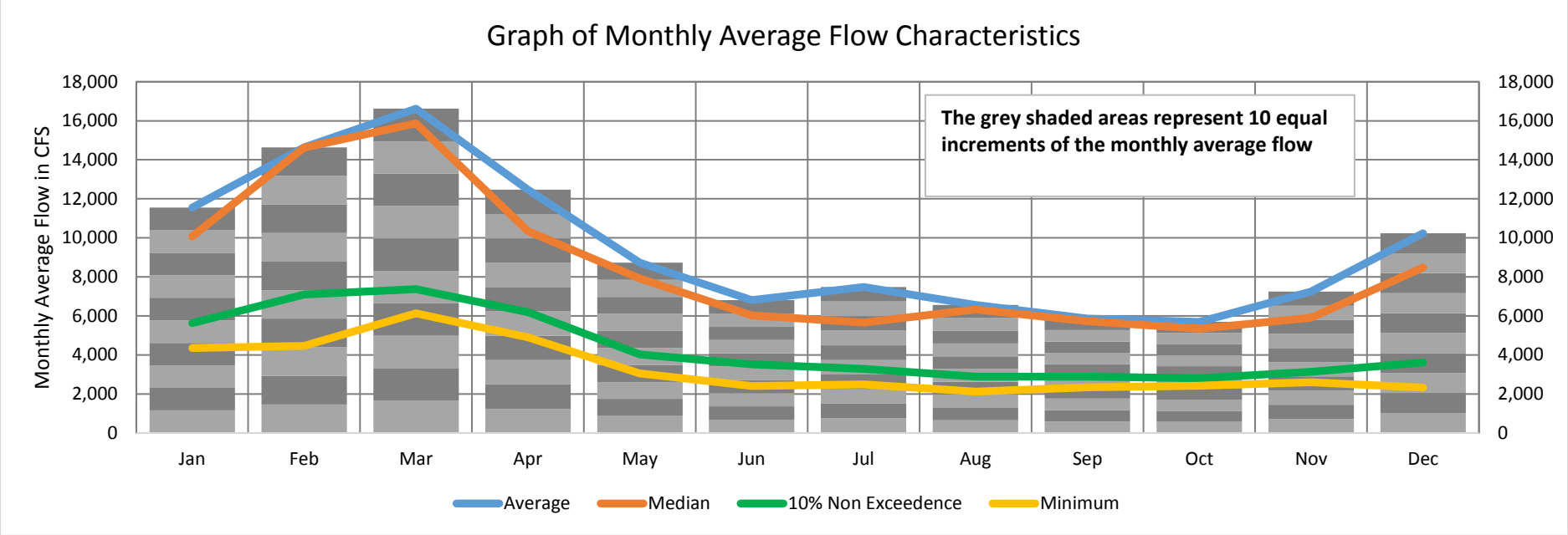
	Flows in CFS
Minimum	2,121.0
5th %	2,920
10th %	3,552
15th %	4,138
20th %	4,705
30th %	5,578
40th %	6,316
Median	7,280
60th %	8,620
70th %	10,680
80th %	13,718
90th %	18,526
Maximum	40,382
Average	9,479



Q10/Q50	0.49
Q10/Q90	0.19
	CFSM*
Qmin/DA	0.28
Q5/DA	0.39
Q10/DA	0.48
Q15/DA	0.55
Q20/DA	0.63
Q30/DA	0.75
Q40/DA	0.85
Q50/DA	0.98
Q60/DA	1.16
Q70/DA	1.43
Q80/DA	1.84
Q90/DA	2.48
Qmax/DA	5.41

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

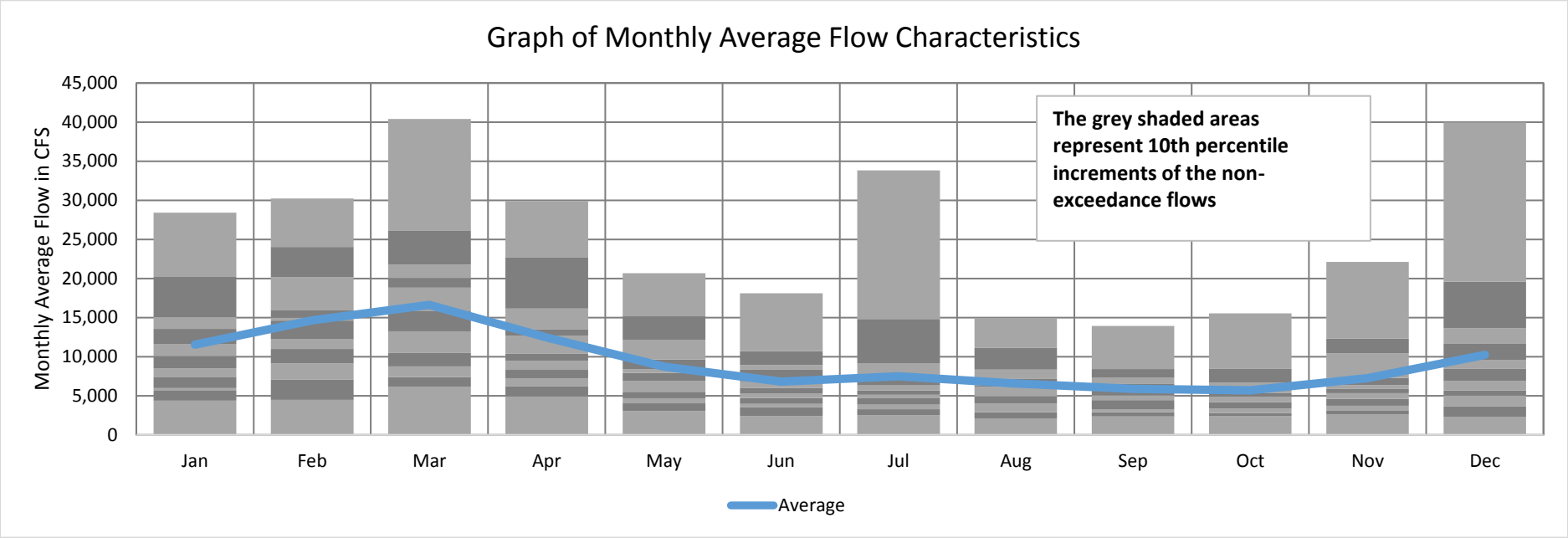
Site #: 023432415 Name: Chattahoochee River downstream from W.F. George Dam, Ga. (represents streamflow for 03130003)
Period of Record: Jan-1975 - Dec-2014 STATISTICAL ANALYSIS OF MONTHLY AVERAGE FLOWS



MONTHLY FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238
100%	28,415	30,222	40,382	29,883	20,686	18,099	33,827	14,919	13,913	15,526	22,100	39,950
98%	25,090	27,581	35,796	27,722	18,905	14,035	24,201	13,919	13,260	15,007	21,428	26,277
95%	23,449	24,971	31,609	25,123	17,479	12,223	17,942	12,169	11,208	10,676	15,377	22,085
90%	20,208	24,042	26,084	22,652	15,162	10,717	14,826	11,158	8,407	8,493	12,328	19,577
75%	14,822	17,487	21,218	14,235	10,970	8,532	7,285	7,571	7,090	6,483	9,769	12,424
50%	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479
25%	6,748	10,439	9,513	7,674	4,954	4,535	4,409	4,417	4,090	3,562	3,969	5,225
10%	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615
5%	5,272	5,827	6,961	5,310	3,937	3,300	2,630	2,527	2,627	2,753	3,038	2,750
2%	4,609	4,727	6,580	5,209	3,601	2,784	2,518	2,316	2,490	2,445	2,810	2,352
0%	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326

Site #: 023432415 Name: Chattahoochee River downstream from W.F. George Dam, Ga. (represents streamflow for 03130003)
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 7,460 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE FLOW STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	11,545	14,641	16,618	12,469	8,721	6,804	7,487	6,558	5,862	5,693	7,251	10,238
100%	28,415	30,222	40,382	29,883	20,686	18,099	33,827	14,919	13,913	15,526	22,100	39,950
98%	25,090	27,581	35,796	27,722	18,905	14,035	24,201	13,919	13,260	15,007	21,428	26,277
95%	23,449	24,971	31,609	25,123	17,479	12,223	17,942	12,169	11,208	10,676	15,377	22,085
90%	20,208	24,042	26,084	22,652	15,162	10,717	14,826	11,158	8,407	8,493	12,328	19,577
75%	14,822	17,487	21,218	14,235	10,970	8,532	7,285	7,571	7,090	6,483	9,769	12,424
50%	10,077	14,619	15,869	10,347	7,924	6,029	5,662	6,323	5,721	5,344	5,904	8,479
25%	6,748	10,439	9,513	7,674	4,954	4,535	4,409	4,417	4,090	3,562	3,969	5,225
10%	5,627	7,090	7,372	6,197	4,026	3,516	3,279	2,883	2,881	2,806	3,140	3,615
5%	5,272	5,827	6,961	5,310	3,937	3,300	2,630	2,527	2,627	2,753	3,038	2,750
2%	4,609	4,727	6,580	5,209	3,601	2,784	2,518	2,316	2,490	2,445	2,810	2,352
0%	4,356	4,459	6,132	4,906	3,048	2,401	2,493	2,121	2,336	2,416	2,597	2,326

Appendix M

Annual Flow Assessment Site Statistical Summaries

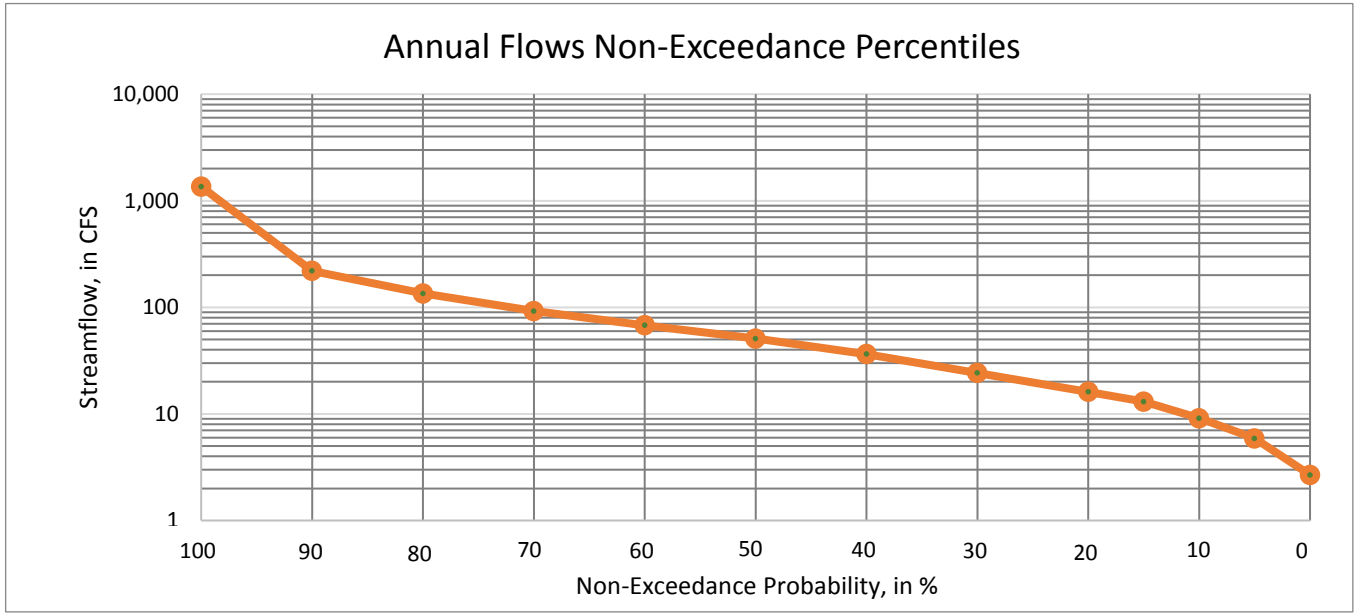
The statistical summaries for the following 15 annual flow assessment sites include non-exceedance flow percentiles for the station's period of record. These sites are referred to as annual flow assessment sites to differentiate them from the monthly flow assessment sites.

(CFS – cubic feet per second; DA – drainage area, in square miles; CFSM – cubic feet per second per square mile; Q5 – 5th non-exceedance flow percentile)

Non-Exceedance Percentiles

02343000 - Barbour Creek near Eufaula, Ala.

	Flows in CFS
Minimum	2.7
5th %	5.9
10th %	9.1
15th %	13.1
20th %	16.1
30th %	24.2
40th %	36.4
Median	50.9
60th %	67.9
70th %	92.4
80th %	135.1
90th %	220.1
Maximum	1357.3
Average	78.16



Annual Statistics

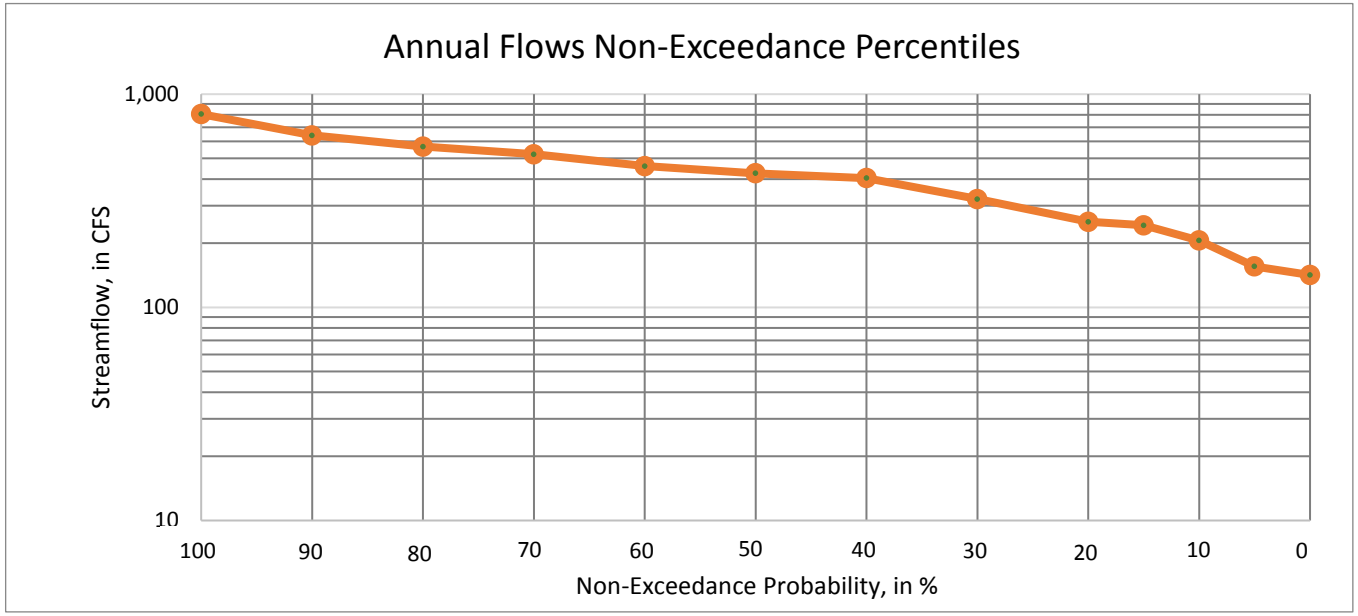
Q10/Q50	0.18
Q10/Q90	0.04
DA* =	95.4
	CFSM*
Qmin/DA	0.03
Q5/DA	0.06
Q10/DA	0.10
Q15/DA	0.14
Q20/DA	0.17
Q30/DA	0.25
Q40/DA	0.38
Q50/DA	0.53
Q60/DA	0.71
Q70/DA	0.97
Q80/DA	1.42
Q90/DA	2.31
Qmax/DA	14.23
Qavg/DA	0.82

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02360290 - West Fork Choctawhatchee River near Ozark, Ala.

	Flows in CFS
Minimum	141.81
5th %	155.71
10th %	205.73
15th %	242.45
20th %	252.05
30th %	322.07
40th %	404.08
Median	425.10
60th %	460.21
70th %	522.68
80th %	567.81
90th %	640.84
Maximum	806.26
Average	423.62



Annual Statistics

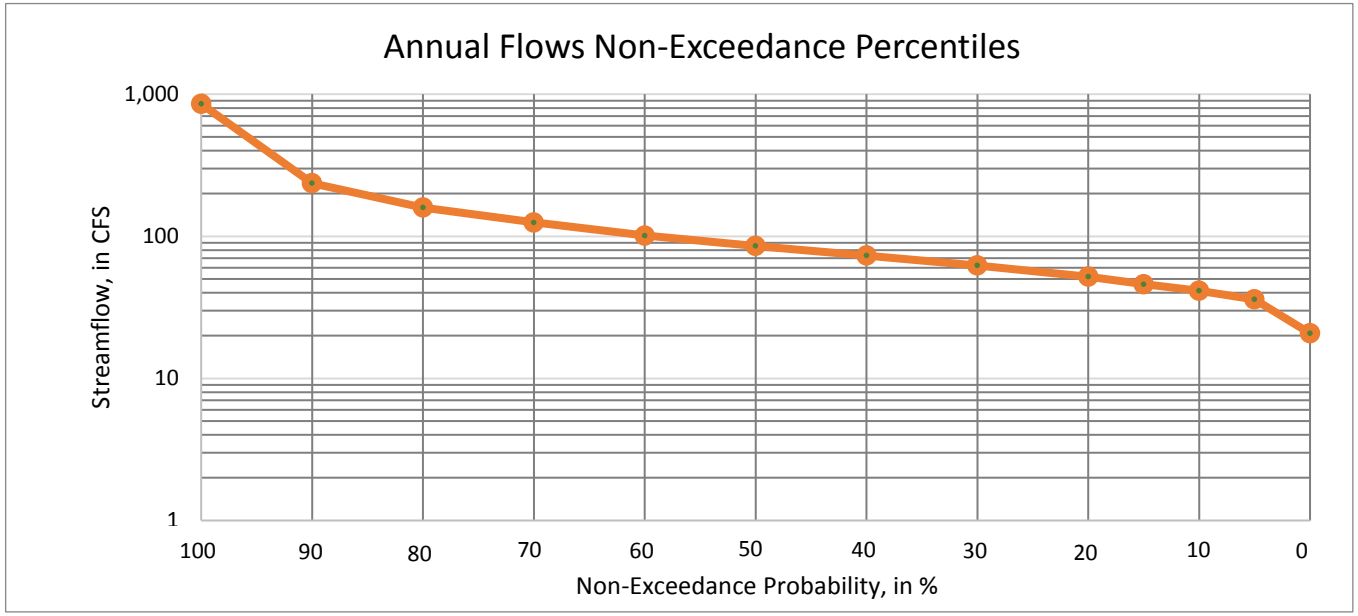
Q10/Q50	0.48
Q10/Q90	0.32
DA* =	340
	CFSM*
Qmin/DA	0.42
Q5/DA	0.46
Q10/DA	0.61
Q15/DA	0.71
Q20/DA	0.74
Q30/DA	0.95
Q40/DA	1.19
Q50/DA	1.25
Q60/DA	1.35
Q70/DA	1.54
Q80/DA	1.67
Q90/DA	1.88
Qmax/DA	2.37
Qavg/DA	1.25

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02377960 - Blackwater River near Robertsdale, Ala.

	Flows in CFS
Minimum	20.8
5th %	36.0
10th %	41.4
15th %	46.0
20th %	52.0
30th %	62.4
40th %	73.1
Median	85.5
60th %	101.2
70th %	125.2
80th %	159.3
90th %	236.1
Maximum	854.7
Average	115.4



Annual Statistics

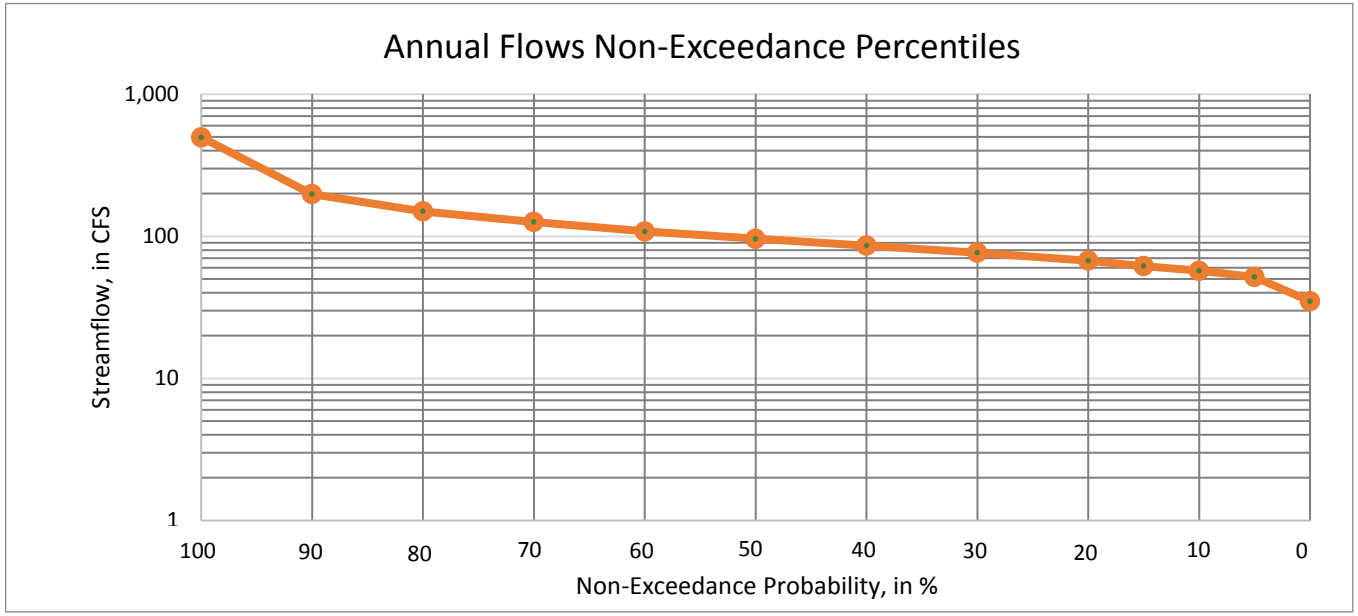
Q10/Q50	0.48
Q10/Q90	0.18
DA* =	56.6
	CFSM*
Qmin/DA	0.37
Q5/DA	0.64
Q10/DA	0.73
Q15/DA	0.81
Q20/DA	0.92
Q30/DA	1.10
Q40/DA	1.29
Q50/DA	1.51
Q60/DA	1.79
Q70/DA	2.21
Q80/DA	2.81
Q90/DA	4.17
Qmax/DA	15.10
Qavg/DA	2.04

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02378500 - Fish River near Silver Hill, Ala.

	Flows in CFS
Minimum	34.9
5th %	51.7
10th %	57.2
15th %	61.7
20th %	67.3
30th %	76.7
40th %	85.9
Median	96.0
60th %	108.3
70th %	126.1
80th %	149.7
90th %	198.3
Maximum	497.3
Average	119.0



Annual Statistics

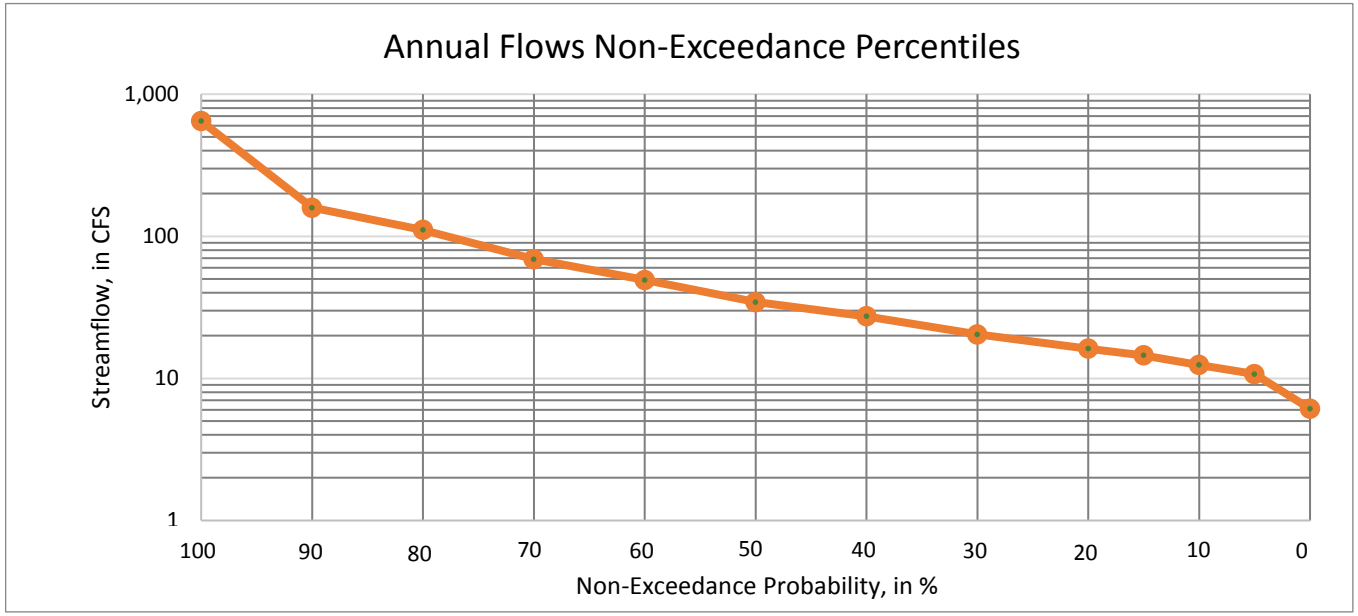
Q10/Q50	0.60
Q10/Q90	0.29
DA* =	55.3
	CFSM*
Qmin/DA	0.63
Q5/DA	0.94
Q10/DA	1.03
Q15/DA	1.12
Q20/DA	1.22
Q30/DA	1.39
Q40/DA	1.55
Q50/DA	1.74
Q60/DA	1.96
Q70/DA	2.28
Q80/DA	2.71
Q90/DA	3.59
Qmax/DA	8.99
Qavg/DA	2.15

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02401700 - Ohatchee Creek at Reads, Ala.

	Flows in CFS
Minimum	6.1
5th %	10.7
10th %	12.4
15th %	14.5
20th %	16.2
30th %	20.4
40th %	27.4
Median	34.4
60th %	49.3
70th %	69.0
80th %	110.7
90th %	159.1
Maximum	646.0
Average	58.6



Annual Statistics

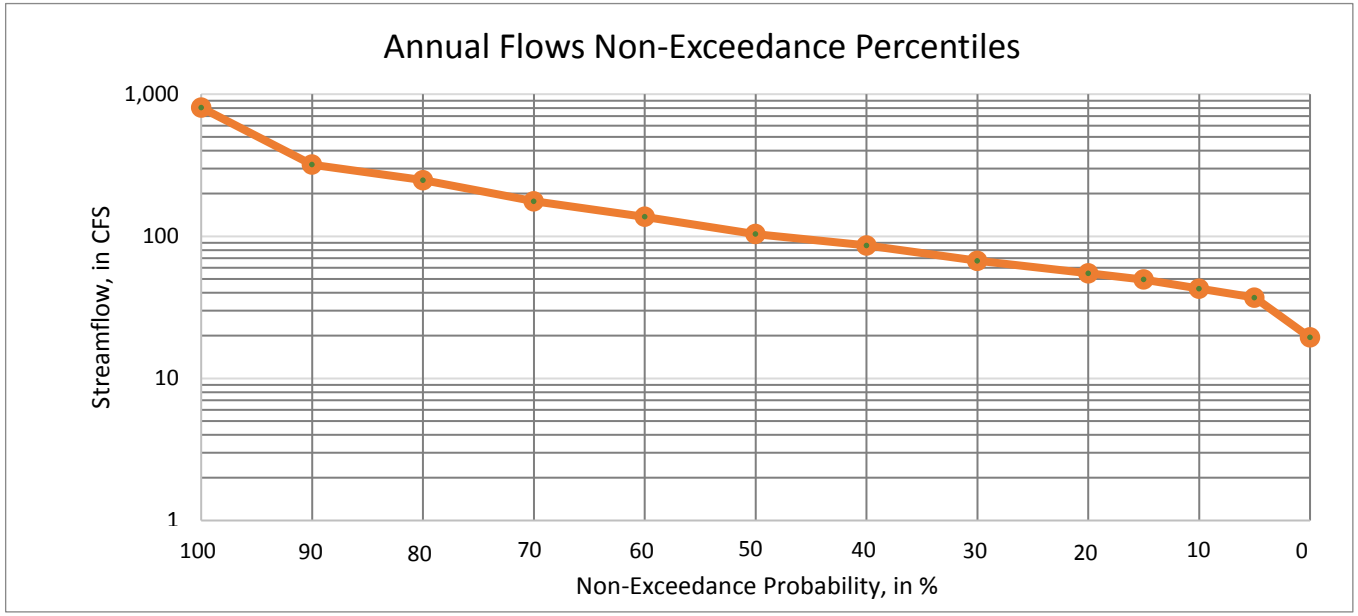
Q10/Q50	0.36
Q10/Q90	0.08
DA* =	39.7
	CFSM*
Qmin/DA	0.15
Q5/DA	0.27
Q10/DA	0.31
Q15/DA	0.37
Q20/DA	0.41
Q30/DA	0.51
Q40/DA	0.69
Q50/DA	0.87
Q60/DA	1.24
Q70/DA	1.74
Q80/DA	2.79
Q90/DA	4.01
Qmax/DA	16.27
Qavg/DA	1.48

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02401800 - Tallasseehatchee Creek near Wellington, Ala.

	Flows in CFS
Minimum	19.4
5th %	37.0
10th %	42.8
15th %	49.6
20th %	54.8
30th %	67.2
40th %	86.1
Median	103.6
60th %	137.1
70th %	176.3
80th %	248.0
90th %	319.2
Maximum	804.1
Average	156.2



Annual Statistics

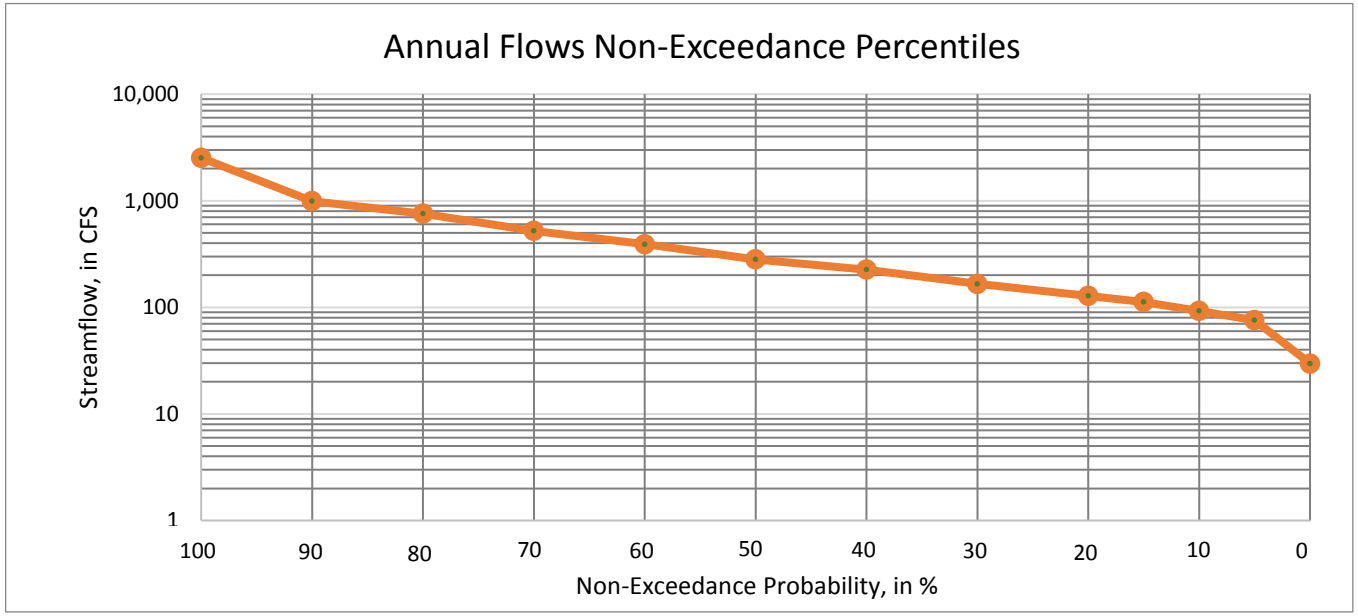
Q10/Q50	0.41
Q10/Q90	0.13
DA* =	92.2
	cfsm
Qmin/DA	0.21
Q5/DA	0.40
Q10/DA	0.46
Q15/DA	0.54
Q20/DA	0.59
Q30/DA	0.73
Q40/DA	0.93
Q50/DA	1.12
Q60/DA	1.49
Q70/DA	1.91
Q80/DA	2.69
Q90/DA	3.46
Qmax/DA	8.72
Qavg/DA	1.69

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02404000 - Choccolocco Creek near Jenifer, Ala.

	Flows in CFS
Minimum	29.7
5th %	75.8
10th %	92.6
15th %	112.4
20th %	128.2
30th %	166.0
40th %	225.7
Median	282.1
60th %	391.5
70th %	520.8
80th %	758.1
90th %	992.6
Maximum	2529.4
Average	454.5



Annual Statistics

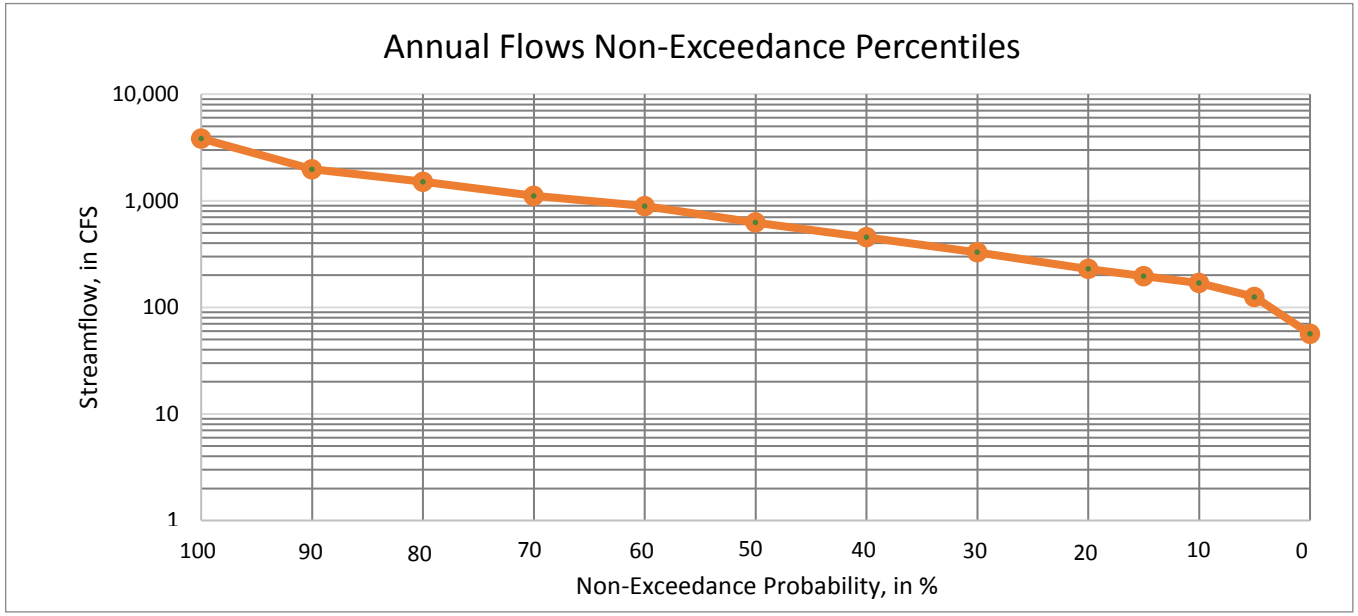
Q10/Q50	0.33
Q10/Q90	0.09
DA* =	277
	CFSM*
Qmin/DA	0.11
Q5/DA	0.27
Q10/DA	0.33
Q15/DA	0.41
Q20/DA	0.46
Q30/DA	0.60
Q40/DA	0.81
Q50/DA	1.02
Q60/DA	1.41
Q70/DA	1.88
Q80/DA	2.74
Q90/DA	3.58
Qmax/DA	9.13
Qavg/DA	1.64

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02439000 - Buttahatchee River near Sulligent, Ala.

	Flows in CFS
Minimum	56.4
5th %	125.0
10th %	168.9
15th %	196.0
20th %	229.0
30th %	327.9
40th %	453.7
Median	623.9
60th %	891.2
70th %	1111.8
80th %	1505.1
90th %	1973.9
Maximum	3834.1
Average	912.5



Annual Statistics

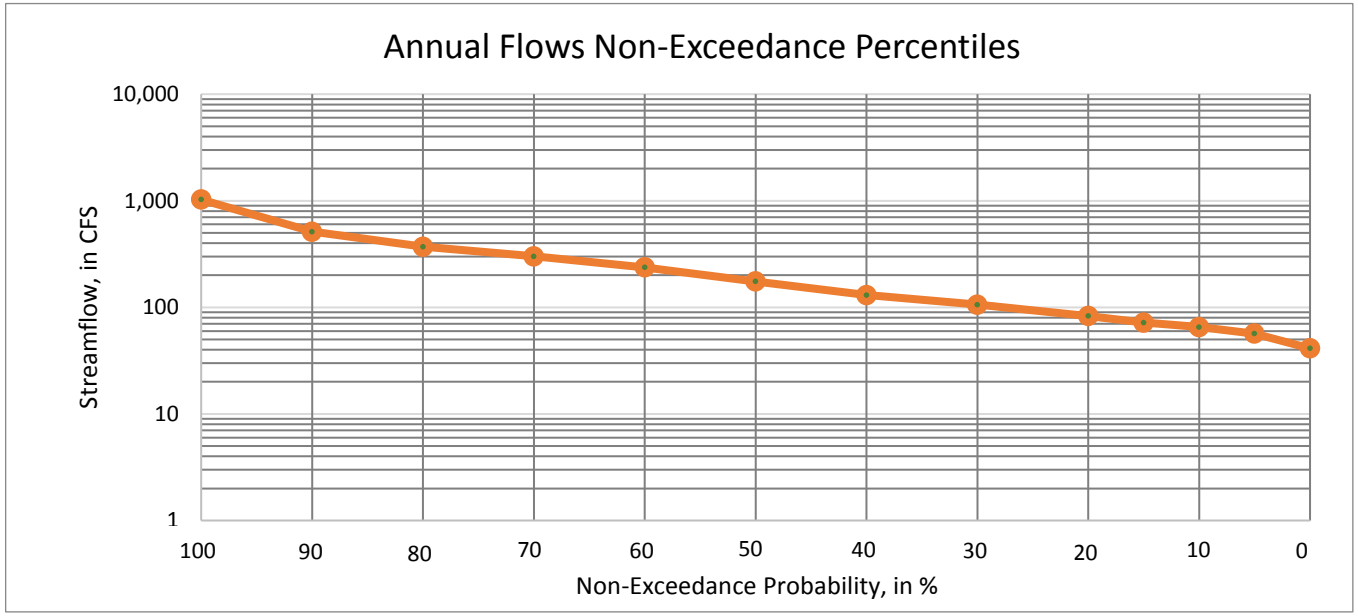
Q10/Q50	0.27
Q10/Q90	0.09
DA* =	472
	CFSM*
Qmin/DA	0.12
Q5/DA	0.26
Q10/DA	0.36
Q15/DA	0.42
Q20/DA	0.49
Q30/DA	0.69
Q40/DA	0.96
Q50/DA	1.32
Q60/DA	1.89
Q70/DA	2.36
Q80/DA	3.19
Q90/DA	4.18
Qmax/DA	8.12
Qavg/DA	1.93

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02442000 - Luxapallila Creek near Fayette, Ala.

	Flows in CFS
Minimum	41.2
5th %	56.7
10th %	65.2
15th %	72.0
20th %	82.9
30th %	106.0
40th %	130.6
Median	175.0
60th %	237.2
70th %	300.6
80th %	370.1
90th %	512.4
Maximum	1025.2
Average	244.0



Annual Statistics

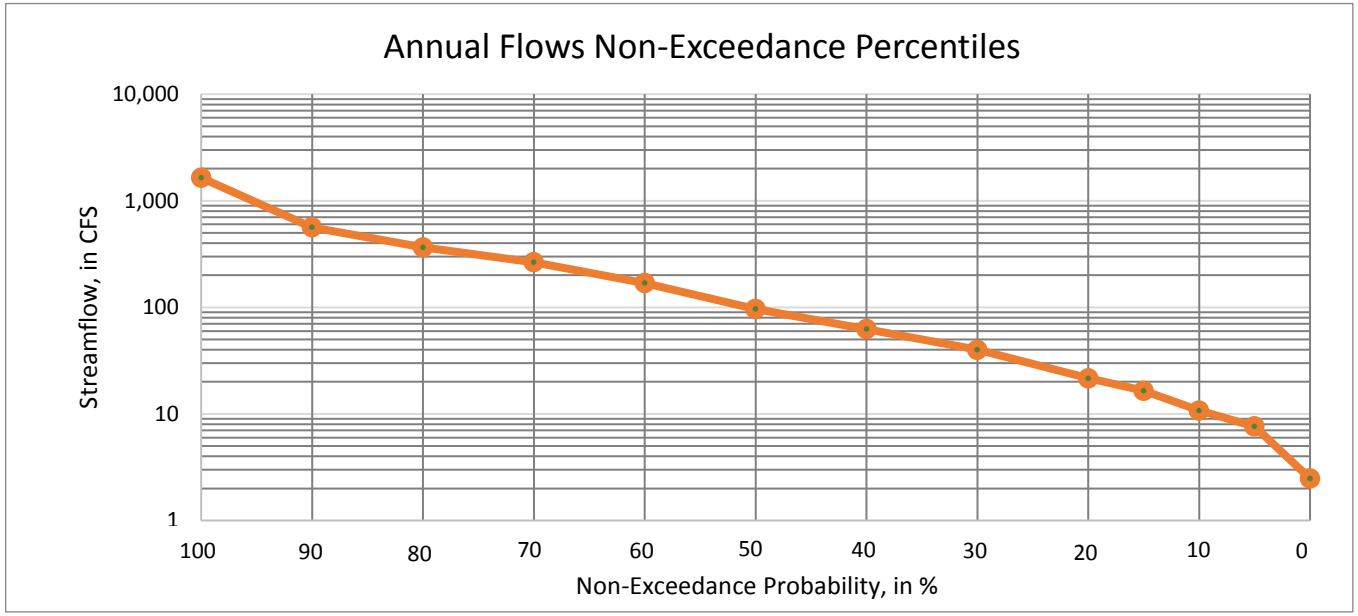
Q10/Q50	0.37
Q10/Q90	0.13
DA* =	130
	CFSM*
Qmin/DA	0.32
Q5/DA	0.44
Q10/DA	0.50
Q15/DA	0.55
Q20/DA	0.64
Q30/DA	0.82
Q40/DA	1.00
Q50/DA	1.35
Q60/DA	1.82
Q70/DA	2.31
Q80/DA	2.85
Q90/DA	3.94
Qmax/DA	7.89
Qavg/DA	1.88

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02454200 - Wolf Creek near Oakman, Ala.

	Flows in CFS
Minimum	2.5
5th %	7.6
10th %	10.8
15th %	16.5
20th %	21.6
30th %	39.9
40th %	62.5
Median	96.7
60th %	169.1
70th %	264.7
80th %	365.6
90th %	562.9
Maximum	1644.5
Average	192.4



Annual Statistics

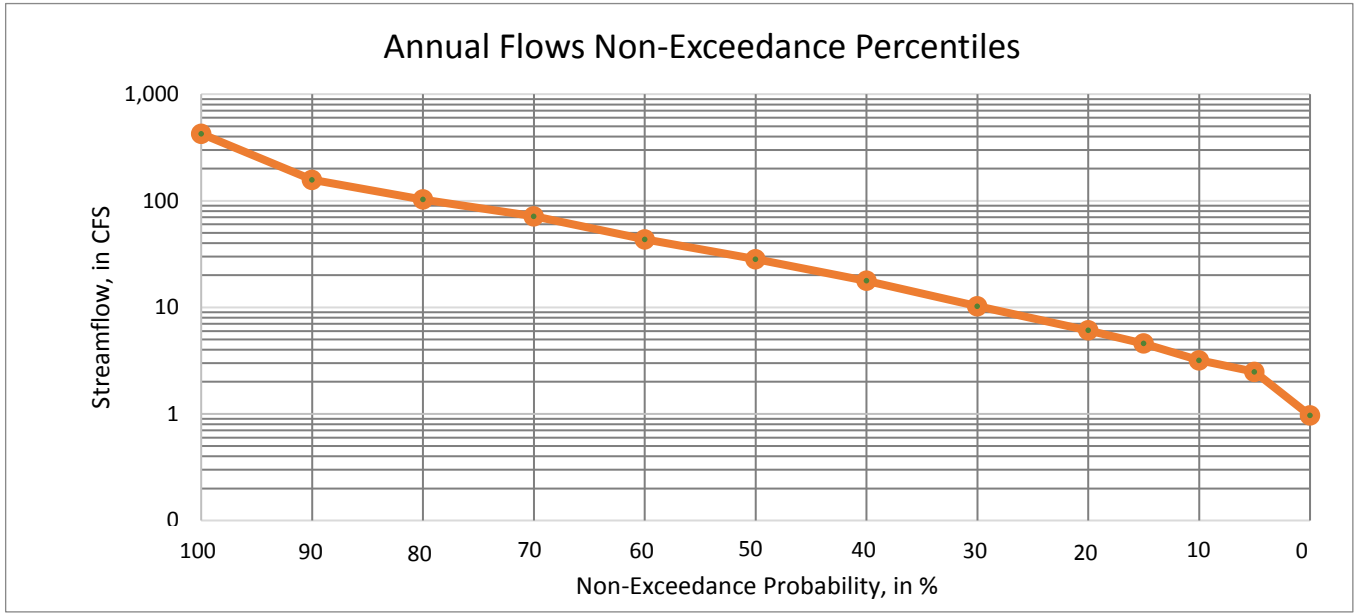
Q10/Q50	0.11
Q10/Q90	0.02
DA* =	85
	CFSM*
Qmin/DA	0.03
Q5/DA	0.09
Q10/DA	0.13
Q15/DA	0.19
Q20/DA	0.25
Q30/DA	0.47
Q40/DA	0.73
Q50/DA	1.14
Q60/DA	1.99
Q70/DA	3.11
Q80/DA	4.30
Q90/DA	6.62
Qmax/DA	19.35
Qavg/DA	2.26

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02462800 - Davis Creek below Abernant, Ala.

	Flows in CFS
Minimum	1.0
5th %	2.5
10th %	3.2
15th %	4.6
20th %	6.1
30th %	10.2
40th %	17.7
Median	28.3
60th %	43.4
70th %	71.5
80th %	102.8
90th %	157.0
Maximum	425.5
Average	51.3



Annual Statistics

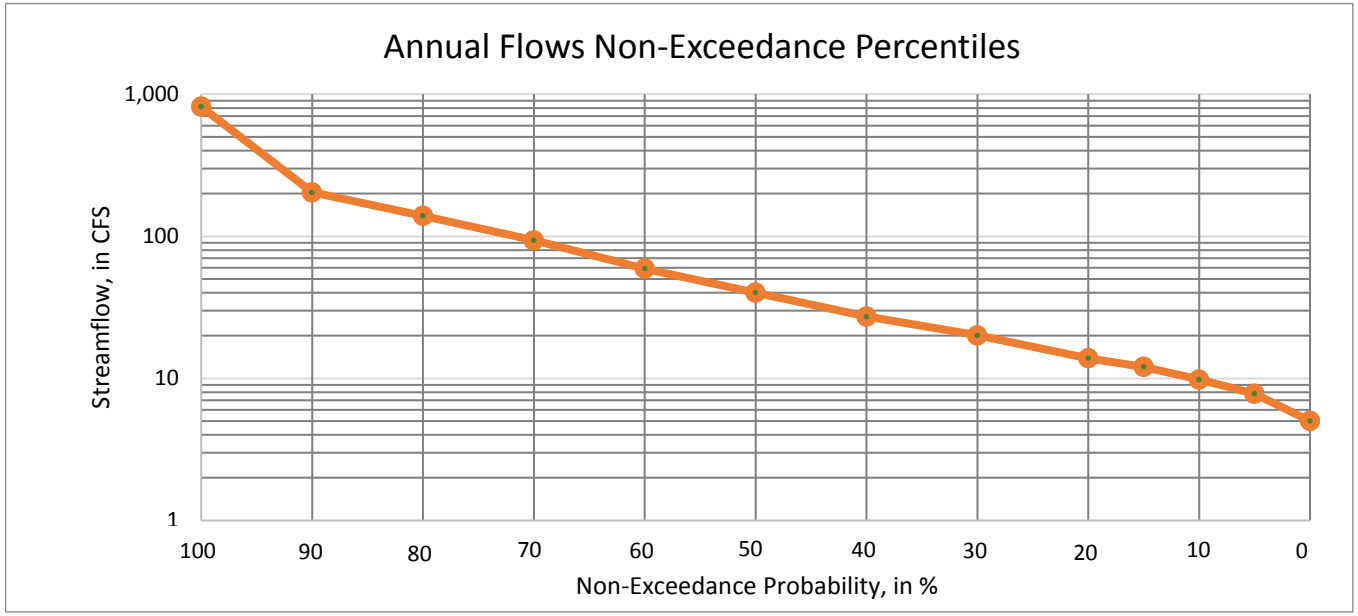
Q10/Q50	0.11
Q10/Q90	0.02
DA* =	45.3
	CFSM*
Qmin/DA	0.02
Q5/DA	0.05
Q10/DA	0.07
Q15/DA	0.10
Q20/DA	0.13
Q30/DA	0.23
Q40/DA	0.39
Q50/DA	0.63
Q60/DA	0.96
Q70/DA	1.58
Q80/DA	2.27
Q90/DA	3.47
Qmax/DA	9.39
Qavg/DA	1.13

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02465500 - Fivemile Creek near Greensboro, Ala.

	Flows in CFS
Minimum	5.0
5th %	7.8
10th %	9.8
15th %	12.0
20th %	13.9
30th %	20.1
40th %	27.2
Median	40.2
60th %	59.2
70th %	93.6
80th %	139.2
90th %	203.8
Maximum	817.0
Average	71.2



Annual Statistics

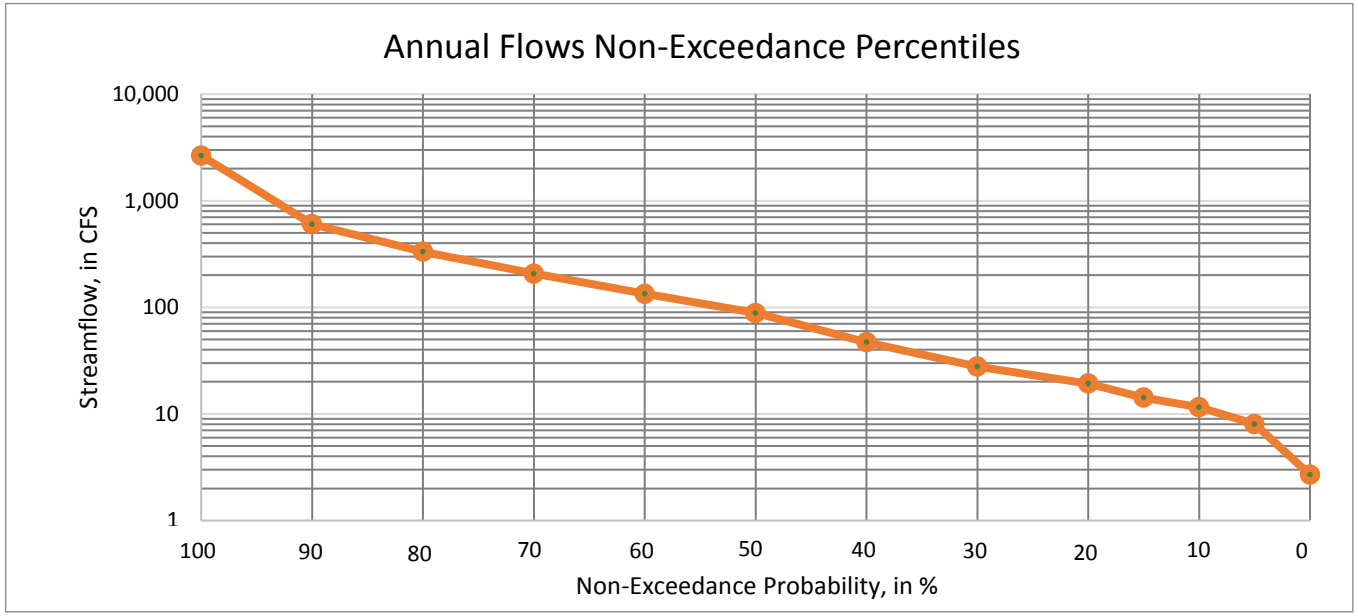
Q10/Q50	0.25
Q10/Q90	0.05
DA* =	73.6
	CFSM*
Qmin/DA	0.07
Q5/DA	0.11
Q10/DA	0.13
Q15/DA	0.16
Q20/DA	0.19
Q30/DA	0.27
Q40/DA	0.37
Q50/DA	0.55
Q60/DA	0.80
Q70/DA	1.27
Q80/DA	1.89
Q90/DA	2.77
Qmax/DA	11.10
Qavg/DA	0.97

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02466500 - Big Prairie Creek near Gallion, Ala.

	Flows in CFS
Minimum	2.7
5th %	8.0
10th %	11.6
15th %	14.2
20th %	19.2
30th %	27.8
40th %	47.0
Median	88.5
60th %	134.2
70th %	206.9
80th %	332.3
90th %	603.0
Maximum	2654.1
Average	210.9



Annual Statistics

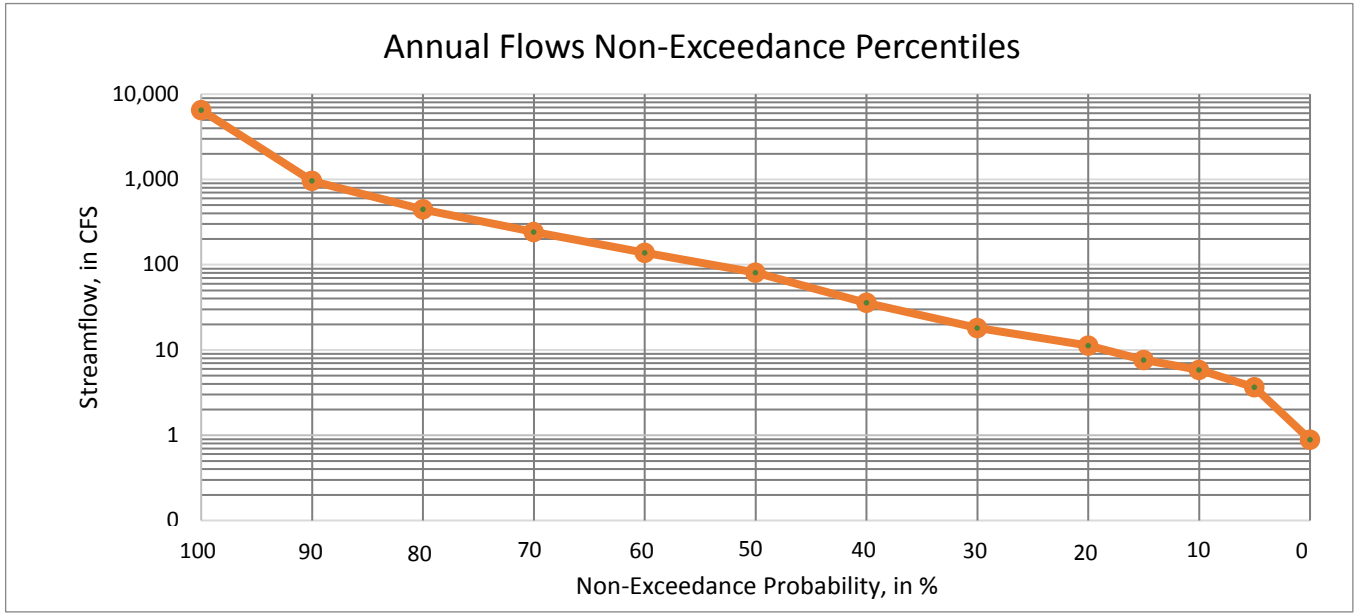
Q10/Q50	0.13
Q10/Q90	0.02
DA* =	171
	CFSM*
Qmin/DA	0.02
Q5/DA	0.05
Q10/DA	0.07
Q15/DA	0.08
Q20/DA	0.11
Q30/DA	0.16
Q40/DA	0.27
Q50/DA	0.52
Q60/DA	0.78
Q70/DA	1.21
Q80/DA	1.94
Q90/DA	3.53
Qmax/DA	15.52
Qavg/DA	1.23

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02468500 - Chickasaw Bogue near Linden, Ala.

	Flows in CFS
Minimum	0.89
5th %	3.6
10th %	5.8
15th %	7.6
20th %	11.3
30th %	18.1
40th %	35.7
Median	80.6
60th %	138.1
70th %	241.4
80th %	444.8
90th %	959.8
Maximum	6497.4
Average	247.4



Annual Statistics

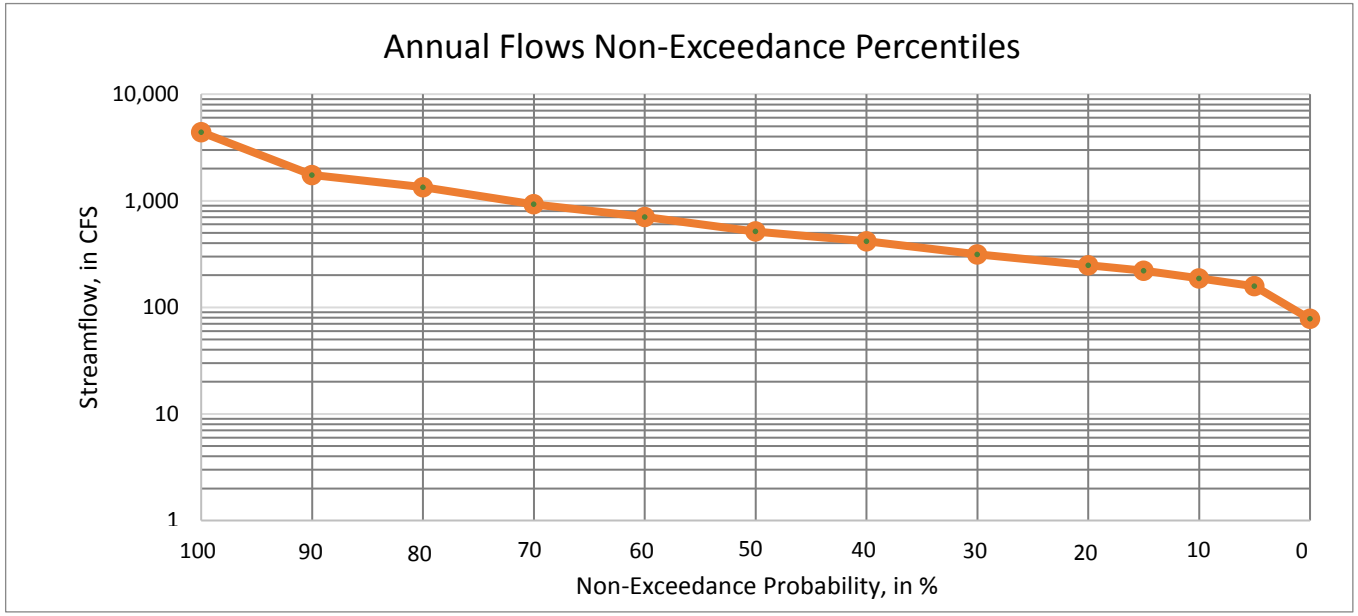
Q10/Q50	0.07
Q10/Q90	0.01
DA* =	257
	CFSM*
Qmin/DA	0.00
Q5/DA	0.01
Q10/DA	0.02
Q15/DA	0.03
Q20/DA	0.04
Q30/DA	0.07
Q40/DA	0.14
Q50/DA	0.31
Q60/DA	0.54
Q70/DA	0.94
Q80/DA	1.73
Q90/DA	3.73
Qmax/DA	25.28
Qavg/DA	0.96

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES

Non-Exceedance Percentiles

02404500 - Choccolocco Creek near Lincoln, Ala.

	Flows in CFS
Minimum	77.8
5th %	157.5
10th %	186.6
15th %	220.9
20th %	248.1
30th %	313.5
40th %	416.7
Median	514.3
60th %	703.5
70th %	927.2
80th %	1337.7
90th %	1743.3
Maximum	4401.2
Average	812.5



Annual Statistics

Q10/Q50	0.36
Q10/Q90	0.11
DA* =	496
	CFSM*
Qmin/DA	0.16
Q5/DA	0.32
Q10/DA	0.38
Q15/DA	0.45
Q20/DA	0.50
Q30/DA	0.63
Q40/DA	0.84
Q50/DA	1.04
Q60/DA	1.42
Q70/DA	1.87
Q80/DA	2.70
Q90/DA	3.51
Qmax/DA	8.87
Qavg/DA	1.64

*CFSM - CUBIC FEET PER SECOND PER SQUARE MILE; DA - DRAINAGE AREA IN SQUARE MILES