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Estimated 2015 Water Use and Surface Water Availability in Alabama

PUBLIC SUPPLY
RESIDENTIAL
IRRIGATION
LIVESTOCK
AQUACULTURE
INDUSTRIAL
MINING
THERMOELECTRIC POWER

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Estimated 2015 Water Use and Surface Water Availability in Alabama

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Alabama Office of Water Resources, a division of the
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ALABAMA DEPARTMENT OF ECONOMIC AND COMMUNITY AFFAIRS

KENNETH W. BOSWELL
DIRECTOR

STATE OF ALABAMA

Water is an integral part of Alabama's past and will play a key role in its future. From the rolling expanse of the Tennessee River to the beaches along the beautiful Gulf of Mexico, water is what drives Alabama's economic vitality, quality of life, natural resources diversity, and makes the state a great place to live, work, and raise a family. And to help better understand the state of this vital resource, ADECA has developed an updated assessment of Alabama's surface water resources and the estimated 2015 demands being placed upon them.

This report, entitled, *Estimated 2015 Water Use and Surface Water Availability in Alabama*, along with the previously published water use summaries and assessments, are a result of long-standing cooperative efforts among numerous state and federal agencies. ADECA staff in the Office of Water Resources (OWR) spent countless hours collecting, analyzing, and summarizing water flow and water use data to develop this report. We appreciate the numerous organizations, public water systems, and individuals who provide information to OWR under the Alabama Water Use Reporting Program each year. I hope you find this report to be informative and useful.

In the meantime, we are always looking to improve the data and information we provide on Alabama's water resources so if you have any suggestions, please let us know.

ADECA's mission is to build stronger communities and these assessments of water use and availability play an important role in supporting the future growth of Alabama.

Respectfully,

Kenneth W. Boswell
Director

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Abbreviations and Acronyms

ADECA	Alabama Department of Economic and Community Affairs
ADEM	Alabama Department of Environmental Management
AGI	Alabama Department of Agriculture and Industries
AL	Alabama
APC	Alabama Power Company
ARWA	Alabama Rural Water Association
AWURP	Alabama Water Use Reporting Program
COU	Certificate of Use
CP	county population
CWS	community water system
DOE–EIA	Department of Energy, Energy Information Administration
DMR	Discharge Monitoring Report
DWB-ADEM	Drinking Water Branch-Alabama Department of Environmental Management
FT	foot
GIS	geographic information system
GPCD	gallons per capita per day
GPD	gallons per day
GPC	Georgia Power Company
GW	groundwater
HUC	hydrologic unit code
MI^2	square miles
MGD	million gallons per day
MG/L	milligrams per liter
MOR	monthly operating report
NASS	National Agricultural and Statistics Service
NAICS	North American Industry Classification System
NPDES	National Pollutant Discharge Elimination System
NWUIP	National Water Use Information Program
OWR	Office of Water Resources
PSEC	PowerSouth Energy Cooperative
PWSID	Public Water System Identification
RND	Relative Net Demand
SDWIS	Safe Drinking Water Information System
SW	surface water
TVA	Tennessee Valley Authority
UAH	University of Alabama – Huntsville
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
USEPA	U.S. Environmental Protection Agency

Abstract

This report provides an assessment of water withdrawals and consumptive water use (or net demand) in Alabama for 2015. Water withdrawals were estimated for eight categories of use—public supply, self-supplied residential, irrigation, livestock, aquaculture, self-supplied industrial, mining, and thermoelectric power by month for both counties and eight-digit hydrologic watersheds (HUC-8) or subbasins for Alabama. The total of all these water withdrawals in 2015 was estimated to be 8,239 million gallons per day (MGD).

The monthly consumptive net demands for 2015 were estimated for three broad categories: public water supply, agriculture, and the combination of industrial, thermoelectric and mining water use and were estimated to total 114 MGD. A comparison between the total 2015 net demands of 114 MGD and the total withdrawals of 8,239 MGD result in an overall consumption rate of just over 1 percent; reflecting the significant impact of returns. The three subbasins with the largest net demands were the Mulberry Fork (03160109; 80 MGD), the Escatawpa (03170008; 53 MGD), and the Cahaba (03150202; 31 MGD). The three subbasins with the lowest net demands (or returns greater than withdrawals) were the Locust Fork (03160111; -75 MGD), the Mobile-Tensaw (03160204; -52 MGD), and the Upper Black Warrior (03160112; -45 MGD). The 2010 total net demand was estimated at 84 MGD with the largest differences from 2015 occurring in the public water supply sector (28 MGD in 2010 versus -70 MGD for 2015). Several factors may account for this, but the most significant is that rainfall in 2010 was approximately 10 inches below normal while rainfall in 2015 was approximately 3 inches above normal.

This report also provides a summary for the monthly relative net demand (RND) ratios for both 2010 and 2015 for each subbasin by calculating the ratio between the net demand and the respective monthly average streamflows. These monthly RND ratios were then used to develop annual average RNDs and four seasonal RND ratios (January-March, April-June, July-September, and October-December). Results of the comparisons revealed that all the monthly 2010 and 2015 net demands were less than the average monthly streamflows for each subbasin. In other words, all the RND ratios were less than 1.00 and the vast majority were below a value of 0.10.

In 2015, the highest RND was 0.316 for the September ratio for the Escatawpa (03170008). For 2010, the highest RND was 0.546 for the October ratio for the Mulberry Fork (03160109). Both of these ratios are significantly higher than the remaining values for each year but are significantly impacted by the water storage and reservoir operations in an adjacent subbasin. Additionally, these ratios occur for only a brief period and the average annual and four seasonal ratios are all significantly lower.

The highest 2015 annual and seasonal RNDs are all for the Escatawpa (03170008) and consist of 0.082 for the average annual ratios, 0.077 for the January-March seasonal ratio, 0.077 for the April-June seasonal ratio, 0.254 for the July-September seasonal ratio, and 0.093 for the October-December seasonal ratio.

The highest 2010 annual and three of the four seasonal 2010 RND ratios are for the Escatawpa (03170008) and consist of 0.097 for the average annual ratio, 0.04 for the January-March seasonal ratio, 0.14 for the April-June seasonal ratio, and 0.254 for the July-September seasonal ratio. For the October-December seasonal ratio, the Mulberry Fork (03160109) with 0.34 ranked slightly above the 0.32 ratio for the Escatawpa (03170008).

Introduction

Alabama's water resources are important for economic growth and aquatic vitality as well as overall quality of life. The rivers, lakes, and streams in the state help sustain communities, provide support for industries and jobs, generate power, irrigate crops, provide critical transportation avenues and links, maintain wildlife, and provide many opportunities for recreation. Management of these water resources needs to be based on periodic comprehensive assessments of the amount of water available across the state.

Since 1950, when the U.S. Geological Survey (USGS) first conducted water-use compilations, significant changes in water use have occurred over the years in Alabama. The early part of history (1950 to 1980) showed a steady increase in water use (MacKichan, 1951, 1957; MacKichan and Kammerer, 1961; Murray, 1968, Murray and Reeves, 1972, 1977; Pierce, 1972; Baker and others, 1982; Solley and others, 1983.) During this time, the expectation was that as the population increased, so would water use. Contrary to this expectation, reported water withdrawals declined in 1985, remained relatively stable through 1995, and increased from 2000 to 2010, before returning back to levels near 1995, in 2015 (Baker and Mooty, 1987; Solley and others, 1988, 1993, 1998; Baker and Mooty, 1993; Hutson and others, 2004a., and Harper and Turner, 2015). These changes have been driven by population growth, economic and industrial development, changes in technology, and compliance with state and federal laws. In the last few years there has also been an increased awareness of the value of water efficiency and conservation that has resulted in more efficient use of water from the rivers, lakes, reservoirs, and groundwater in Alabama.

Water withdrawals have more than doubled in Alabama from 1960 to 2015 from about 4,220 million gallons per day (MGD) to 8,239 MGD (figure 1). The increase in withdrawals primarily occurred from 1960 to 1980 (4,220 MGD to more than 10,350 MGD), while withdrawals in subsequent years have declined somewhat, then increased slightly, but remained nearly constant from 2000 to 2010 before dropping down in 2015 (8,593 MGD in 1985; 8,074 MGD in 1990; 8,286 MGD in 1995; 9,990 MGD in 2000; 10,033 MGD in 2005; 9,997 MGD in 2010; and 8,239 MGD in 2015). The state's population increased about 19 percent from 1960 to 1980, then increased another 25 percent from 1980 to 2015. As a result of the decreased withdrawals as population has increased, gross per capita use has declined. The data indicate that gross per capita water use increased from approximately 1,292 gallons per day (gal/d) for 1960 to a high of 2,661 gal/d for 1980, and then decreased to roughly 1,696 gal/d for 2015. The change in gross per capita water use is mainly attributable to the fluctuation in thermoelectric-power withdrawals for the period.

More water continues to be withdrawn for thermoelectric-power generation than for any other use. Thermoelectric-power withdrawals are large, exclusively from surface water, and therefore, dominate the surface-water trends in Alabama. The dates of the operating schedules of the generating units at the power plants can be compared to the corresponding 5-year water-use data-collection cycle to explain changes in the thermoelectric-power trend. For example, Browns Ferry Nuclear Plant began operation in 1974, closed in March 1985 (the average daily withdrawal was 1,165 MGD in 1985), and began generating power for one unit in July 1991 and a second unit

in December 1995 (the average daily withdrawal was 776 MGD in 1995). The water withdrawal for Brown's Ferry in 2005 was 1,990 MGD. After restarting a unit in 2007, water use increased to 2,724 MGD in 2010. This report reflects the Tennessee Valley Authority's (TVA) closure of both the Colbert Fossil and Widows Creek coal powered plants, leading to a substantial drop in water withdrawals for 2015.

Groundwater withdrawals slowly increased from 1960 to 2005, primarily because of increased withdrawals for public supply. Groundwater withdrawals decreased slightly from 2005 to 2010 before increasing slightly in 2015. Since 1985, public-supply withdrawals have accounted for more than 50 percent of groundwater withdrawals in the State.

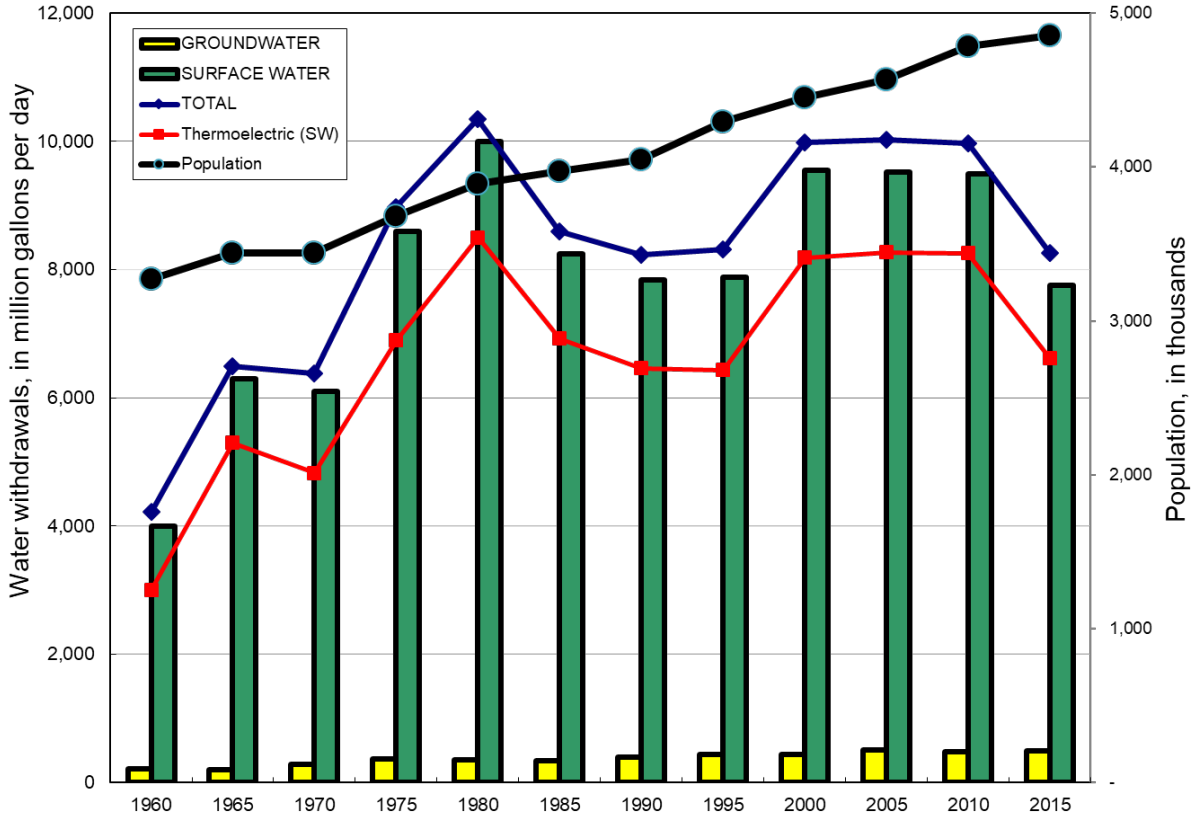


Figure 1. Withdrawals in Alabama, 1960 to 2015, in MGD.

With the passage of the Alabama Water Resources Act in 1993, the State of Alabama established the Office of Water Resources (OWR) within the Alabama Department of Economic and Community Affairs (ADECA). Under the Act, the state also formalized a water-use registration, reporting, and data-collection program that has improved the accuracy and accounting of water use throughout Alabama. Administered by OWR, the Alabama Water Use Reporting Program (AWURP) has become the repository of water-use data for the state. The AWURP provides the framework and structure for the collection of water withdrawal information. Specifically, the AWURP requires that all public water systems as well as non-public (commercial, industrial, mining, and thermoelectric-power facilities) and irrigation water users with a capacity to withdraw 100,000 gallons of water per day or greater obtain a Certificate of Use (COU). Every

year, each COU holder is required to report monthly water usage by March 31st of the following year.

Although only established in 1993, OWR provided data for the 1995 USGS water-use compilation. A more complete reporting of public, non-public, and irrigation water-use entities improved the 2000 estimate of water use for Alabama. Both these early efforts only included data at the county level. Since 2000, AWURP has been further supplemented by data from other governmental and non-governmental agencies, greatly improving the comprehensiveness and accuracy of the water-use estimates which has allowed the development of information at the eight-digit Hydrologic Unit Code (subbasin) level. OWR took the lead in publishing water-use compilations for both the *"Estimated Use of Water in Alabama in 2005"* report (hereafter referred to as the 2005 Report) and the *"Estimated Use of Water in Alabama in 2010"* report (hereafter referred to as the 2010 Report).

Purpose and Scope

This report presents water-use estimates by source of supply, water-use sector, county, and hydrologic subregion and subbasin for the State of Alabama (figures 2 and 3). Water use estimates for Alabama have been part of the USGS effort to document similar water-use estimates every five years since 1950 (MacKichan, 1951, 1957; MacKichan and Kammerer, 1961; Murray, 1968; Murray and Reeves, 1972, 1977; Solley and others, 1983, 1988, 1993, 1998; and Hutson and others, 2004). The eight water use sectors are public supply, residential, irrigation, livestock, aquaculture, industrial, mining, and thermoelectric power. This report contains sections on total water withdrawals, total water returns, and net consumptive use, with more detailed information for each water-use sector. It also contains a comparison of water-use estimates for all sectors from 2010 to 2015. Net demands were estimated for three broad sectors: public water supply, agriculture, and the combination of industrial, thermoelectric and mining water use and include a comparison of the changes in the net demands from 2010 to 2015.

Finally, the report presents an analysis of water availability for both 2010 and 2015 by comparing net water demands and streamflows to calculate relative net demand (RND) ratios that are used to characterize the amount of surface water available in each subbasin of the state.

Appendix A lists the hydrologic region, subregion, and subbasin names and corresponding 8-digit subbasin numbers. Appendices B and C summarize average water withdrawals by county and subbasin, respectively, according to source of water, water-use sector, public supplier, and North American Industry Classification System (NAICS) code. Appendices D and E summarize water withdrawals, returns, and net consumption monthly by county and subbasin, respectively, according to source of water and water-use sector. Appendix F presents the Public-Supplier survey form. Appendix G presents the Irrigation User survey form. Appendix H lists the hydroelectric dams and maps their location. Appendix I presents the comparison between the flows that occurred in 2010 and 2015 to the statistical record for each subbasin. Appendix J provides the tabular summary of the RND ratios for both 2010 and 2015 for each subbasin while Appendix K provides the spatial display of the same information.

Hydrologic Setting

The rainfall that replenishes the rivers (figure 4) and aquifers (figure 5) in Alabama varies annually, seasonally, and geographically. Local geology, geomorphology, and topography determine the short-term and long-term groundwater and surface-water availability within a subbasin. The mean annual rainfall for Alabama is 55.66 inches (1980 to 2010 period of record) ranging from lows of 35.39 inches in 1954 and 37.87 inches in 2007 to highs of 75.08 inches in 1929 and 74.77 inches in 1975 (National Oceanic and Atmospheric Administration, 2017).

The Tennessee and Mobile Rivers, along with numerous minor streams, provide water to Alabama residents for a variety of offstream and instream uses (Lineback, 1973). The Tennessee River flows in a westerly direction through the Cumberland Plateau, the Highland Rim, and a small part of the East Gulf Coastal Plain (figures 4 and 6). Total drainage area of the Tennessee River in Alabama is roughly 7,500 square miles (mi^2) (Alabama Department of Economic and Community Affairs, Office of Water Resources, 2002). The Tennessee River is the only source of water used to supply communities such as Decatur and Sheffield and supports robust thermoelectric power and industrial uses. Wells and springs within the Cumberland Plateau and Highland Rim physiographic provinces (figures 5 and 6) provide some limited groundwater for aquaculture, industrial, irrigation, mining, livestock, and self-supplied residential uses (Baker, 1989; Baker and Moser, 1989; Hunter, 1991; Mooty and Richardson, 1998). Most of the groundwater within the Cumberland Plateau and Highland Rim physiographic provinces is withdrawn for public supply.

The Lower Tombigbee River and its tributaries, the Upper Tombigbee and Black Warrior River, flow southward and join with the Alabama River and its tributaries, the Cahaba, Coosa, and Tallapoosa Rivers, to form the Mobile River (figure 4). The rivers traverse the East Gulf Coastal Plain, Cumberland Plateau, Alabama Valley and Ridge, and Piedmont Upland and drain 32,207 mi^2 in Alabama. Supplemented by groundwater, the rivers provide water to communities such as Birmingham, Mobile, Montgomery, and Tuscaloosa. Groundwater use is greatest in the East Gulf Coastal Plain with some locally productive aquifers in the Piedmont Upland, Alabama Valley and Ridge, and Cumberland Plateau areas that are used for various purposes (Journey and Atkins, 1997; Kidd and others, 1997; Mooty and Kidd, 1997; Robinson and others, 1997).

The Conecuh, Yellow, Pea, and Choctawhatchee Rivers, which originate in Alabama, and the Chattahoochee River, which originates in Georgia, traverse southeastern Alabama. Groundwater from the relatively unconsolidated Mesozoic and Cenozoic sediments underlying the Coastal Plain (Chapman and Peck, 1997; Mayer, 1997; DeJarnette, 1989) is the source of public supply for most southeastern Alabama communities, including Andalusia and Dothan; however, some surface water is used for aquaculture, industry (Conecuh River), irrigation, livestock, and mining. The cities of Opelika, Phenix City, Smiths Station, and the East Alabama Water, Sewer and Fire Protection District, which serves Chambers County, withdraw water from the Chattahoochee River.

Figure 2. Map of counties and subregions in Alabama.

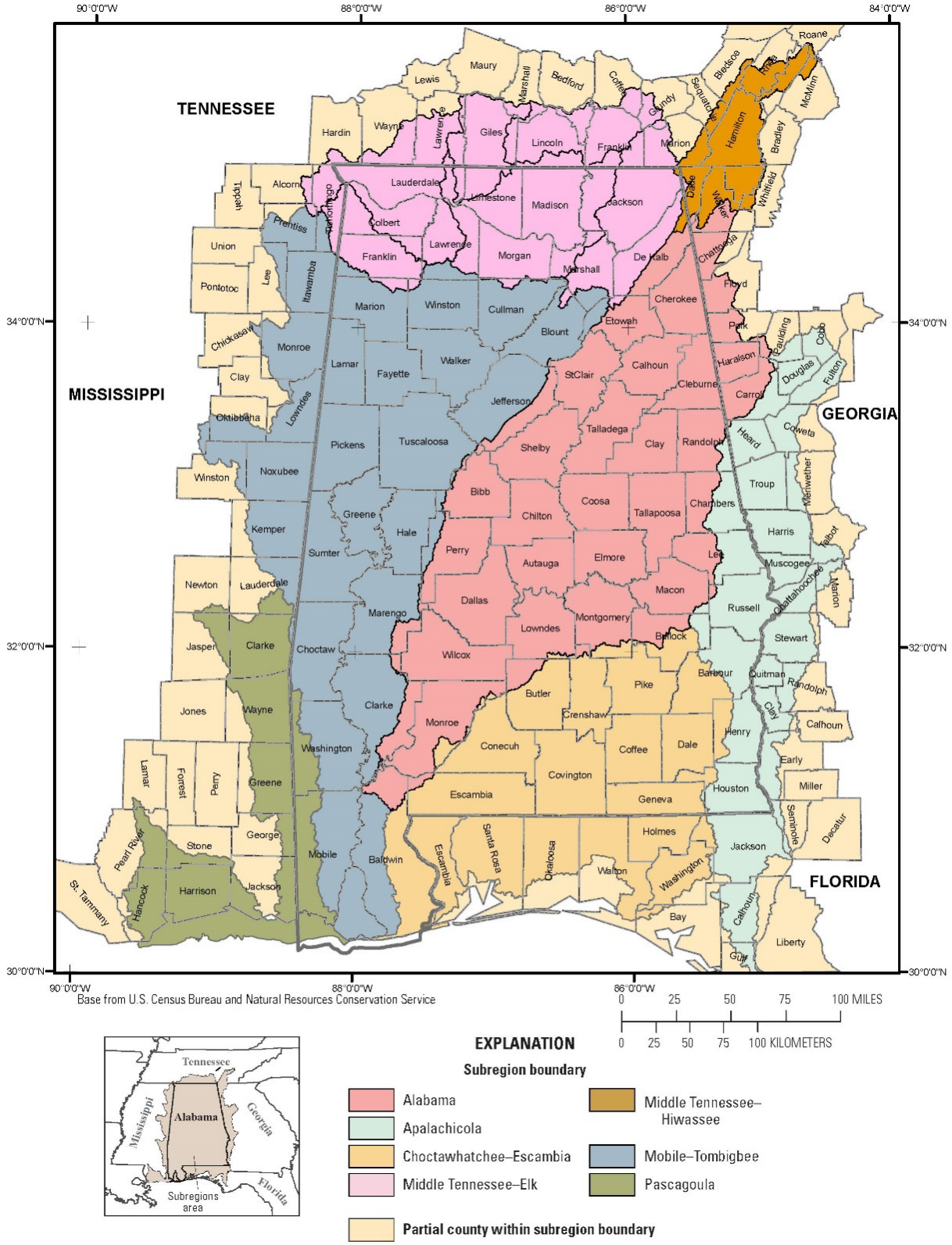


Figure 3. Map of subregions and subbasins in Alabama.

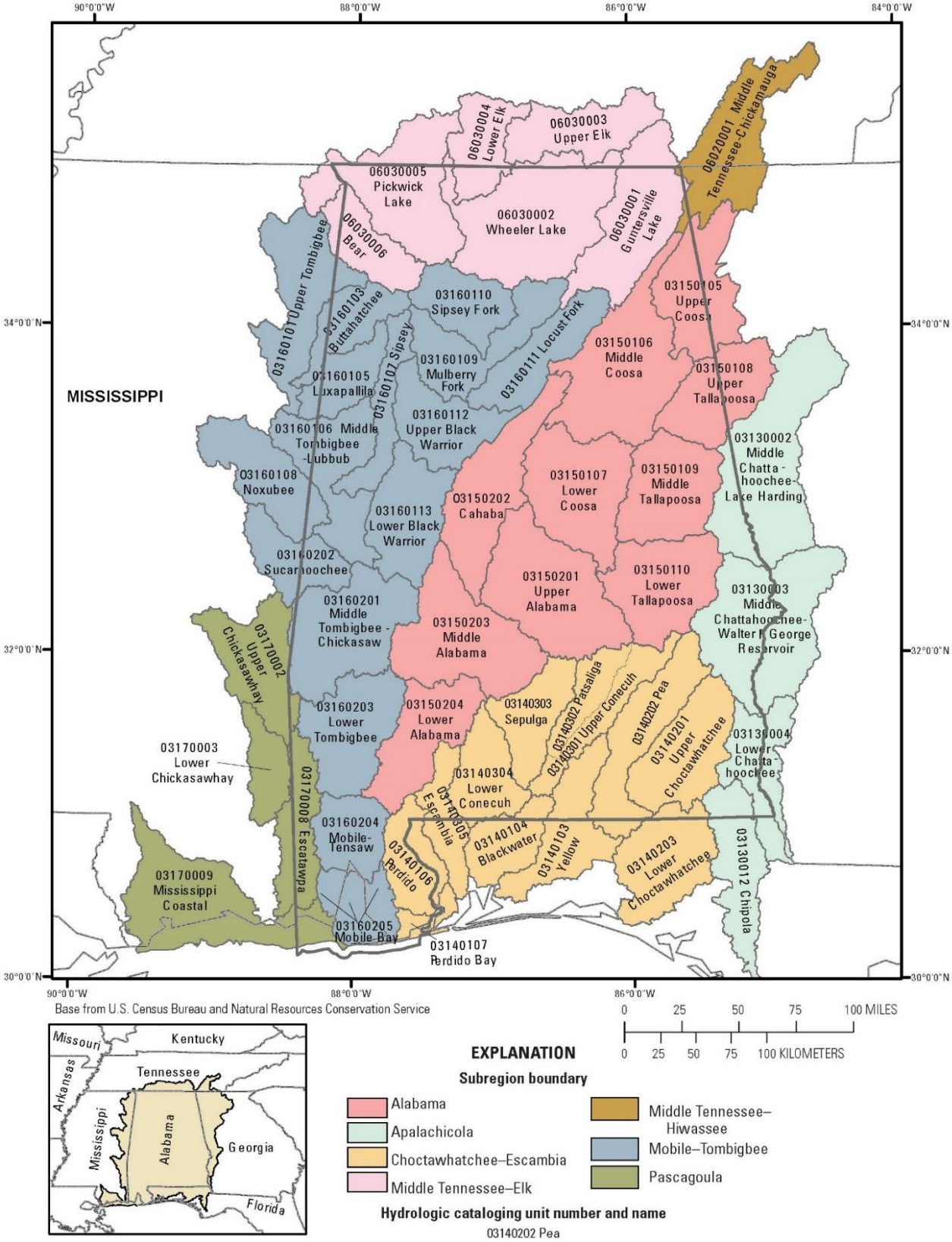


Figure 4. Map of major rivers and tributaries in Alabama.

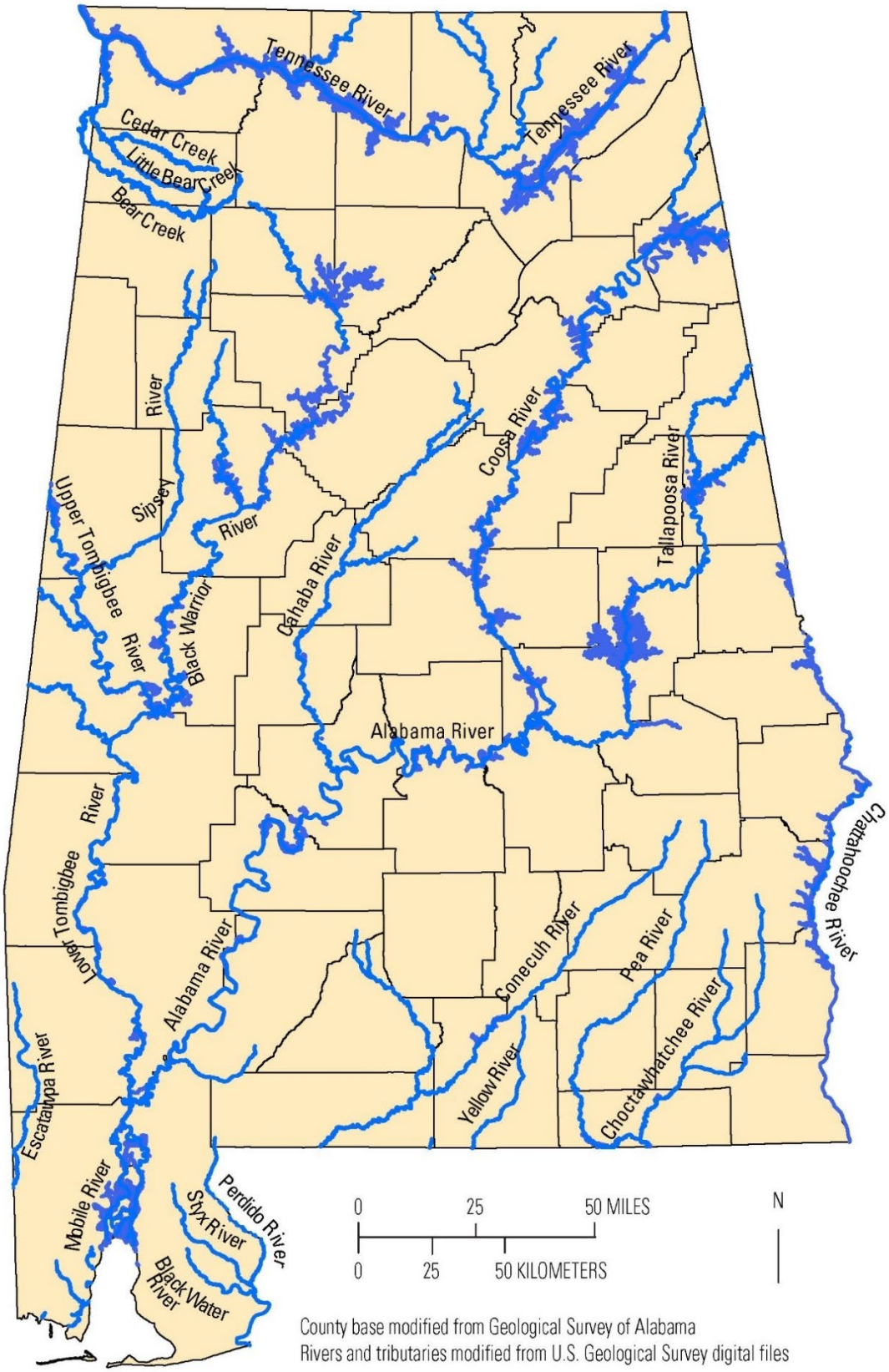


Figure 5. Map of principal aquifers in Alabama.

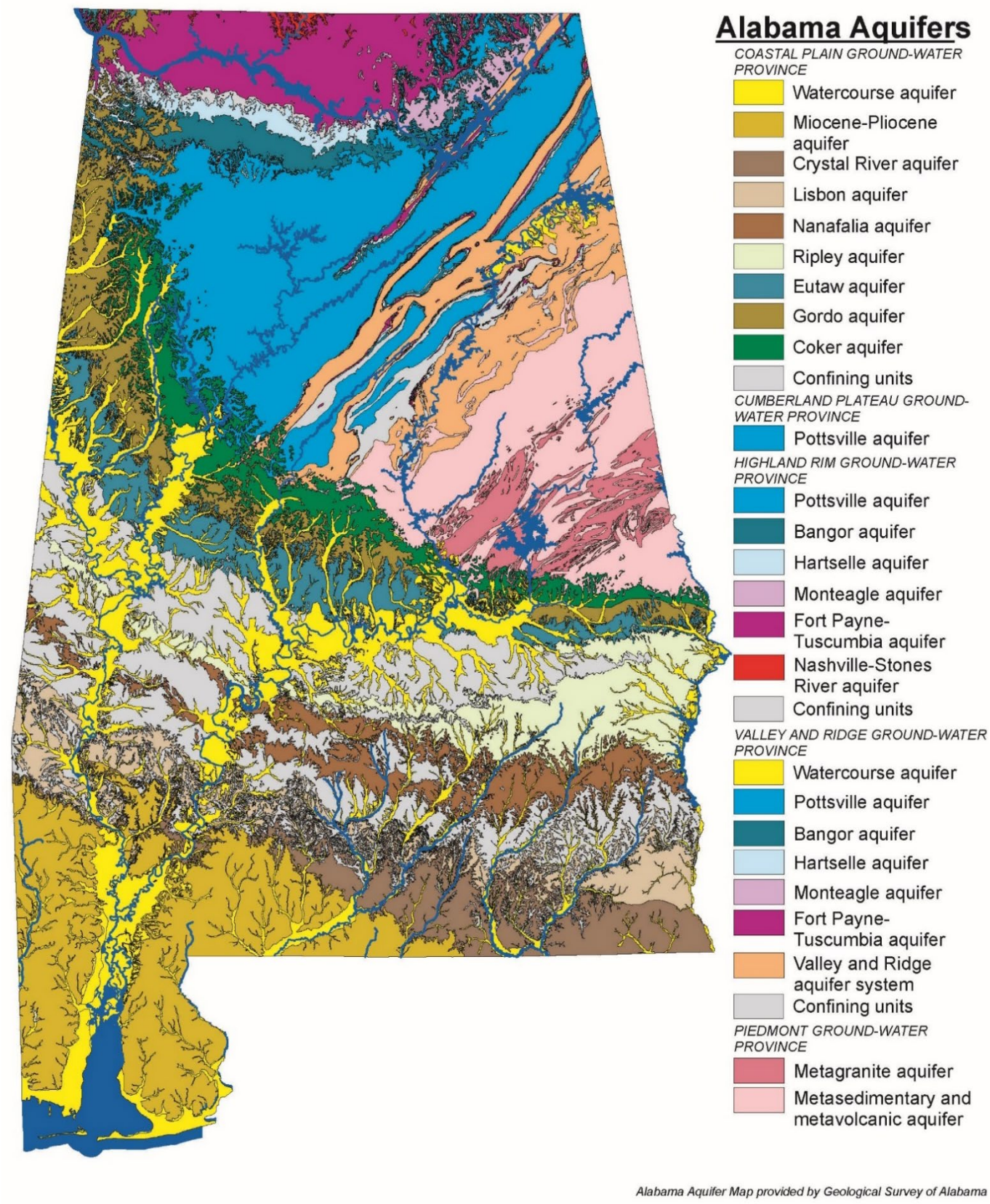
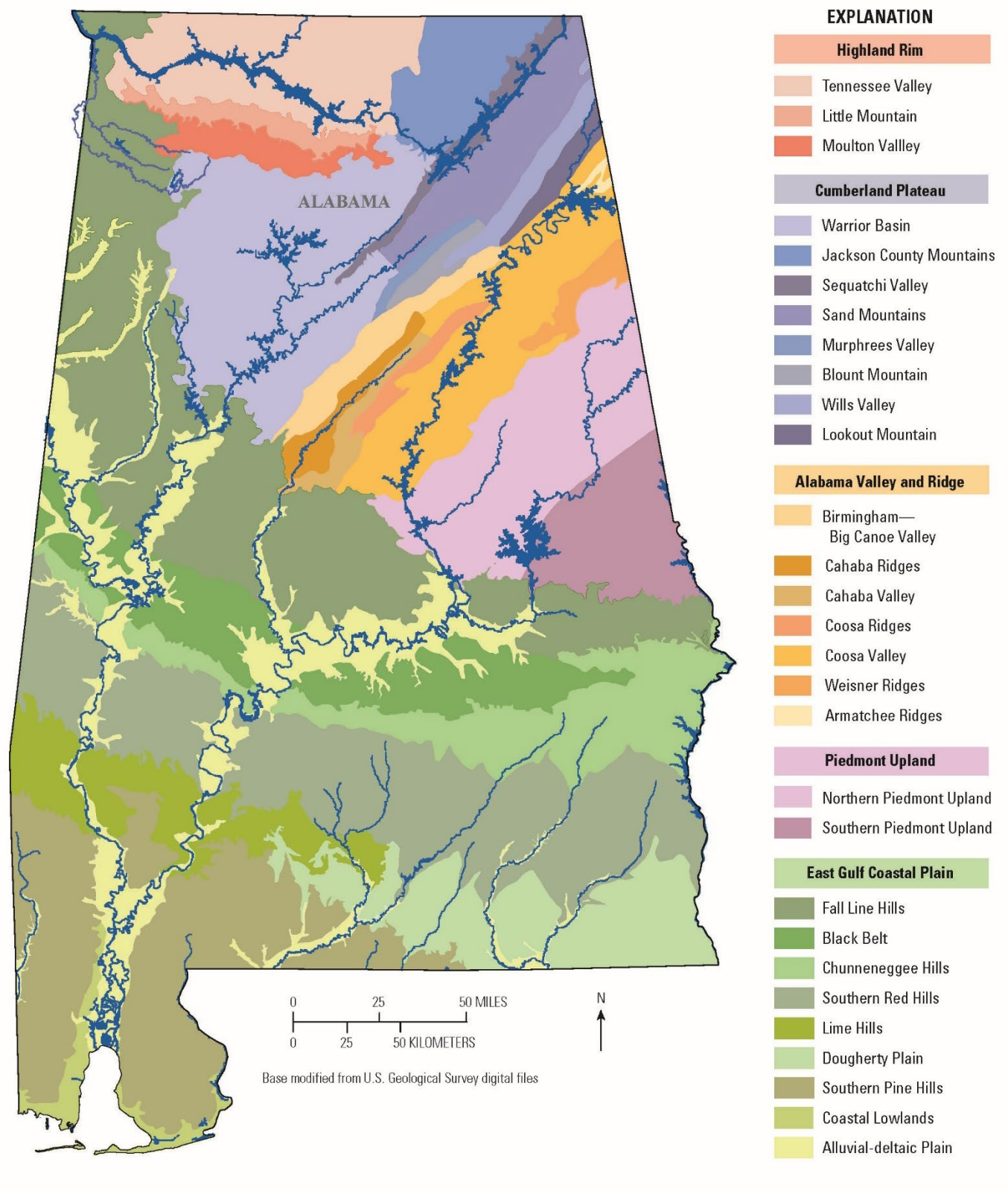


Figure 6. Map of Alabama physiography (provided by Geological Survey of Alabama, 2014).



The geographic distribution of observed precipitation, normal precipitation, and 2015 departures from normal precipitation are listed by county and hydrologic subbasin in table 1 and table 2[1]. The counties with the highest normal precipitation values are Baldwin (65.35 inches), Mobile (64.96 inches), Escambia (64.19 inches), Conecuh (60.76 inches), and Washington (60.16 inches) Counties. The counties with the lowest normal precipitation values are Russell (48.78 inches), Lee (51.28 inches), Macon (51.98 inches), Barbour (52.12 inches), Chambers (52.19 inches) and Montgomery (52.37 inches) Counties (figure 7).

The subbasins with the highest precipitation values for normal precipitation are the Mobile Bay (03160205; 66.50 inches), Middle Tennessee-Chickamauga (03170009; 66.39 inches), the Perdido (03140106; 66.10 inches), and the Perdido Bay (03140107; 65.60 inches) subbasins. The subbasins with the lowest normal precipitation values are the Middle Chattahoochee-Walter F. George Reservoir (03130003; 50.05 inches), the Middle Chattahoochee-Lake Harding (03130002; 51.33 inches), and the Lower Tallapoosa (03150110; 52.42 inches) subbasins (figure 8).

The counties with the highest departures from normal (more than normal rainfall) for 2015 are Lee (13.93 inches), Coffee (12.12 inches), Russell (11.65 inches), and Barbour (10.84 inches) Counties. The counties with the lowest departures from normal (less than normal rainfall) for 2015 are Pickens (-5.11 inches), Escambia (-4.58 inches), and Baldwin (-3.90 inches) Counties (figure 9).

The subbasins with the highest departures from normal (more than normal rainfall) for 2015 are the Mississippi Coastal (03170009; 12.32 inches), the Middle Chattahoochee-Walter F. George Reservoir (03130003; 11.29 inches), and the Chipola (03130012; 11.18 inches) subbasins. The subbasins with the lowest departures from normal (less than normal rainfall) are the Perdido (03140106; -4.62 inches), the Perdido Bay (03140107; -3.30 inches), and the Blackwater (03140104; -3.09 inches) subbasins (figure 10).

[1] Due to estimating methodologies and rounding techniques, there are slight differences in statewide precipitation totals between county and subbasin delineations.

Figure 7. Map of normal precipitation in Alabama by county (1980-2010), in inches.

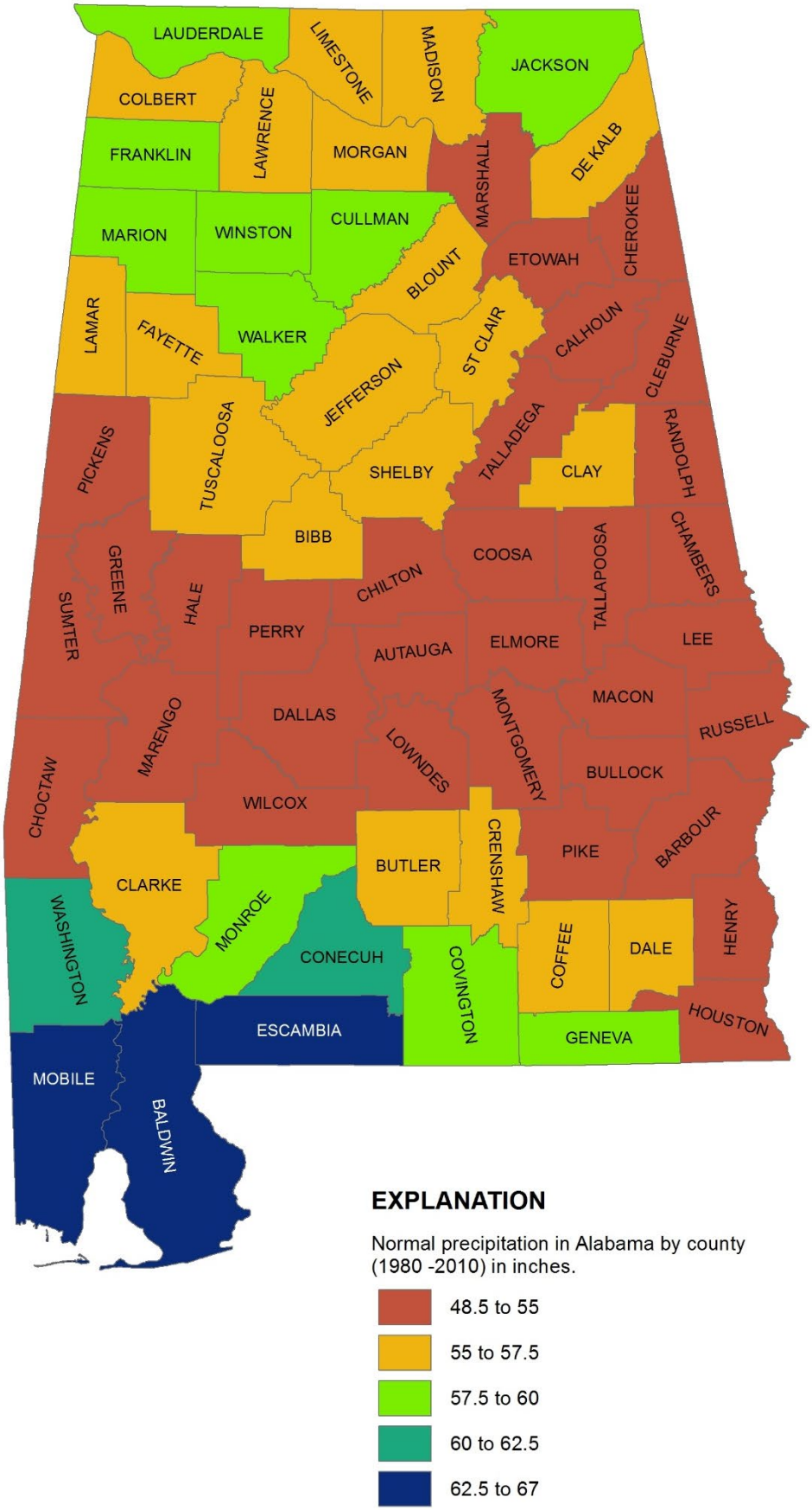


Figure 8. Map of normal precipitation in Alabama by subbasin (1980-2010), in inches.

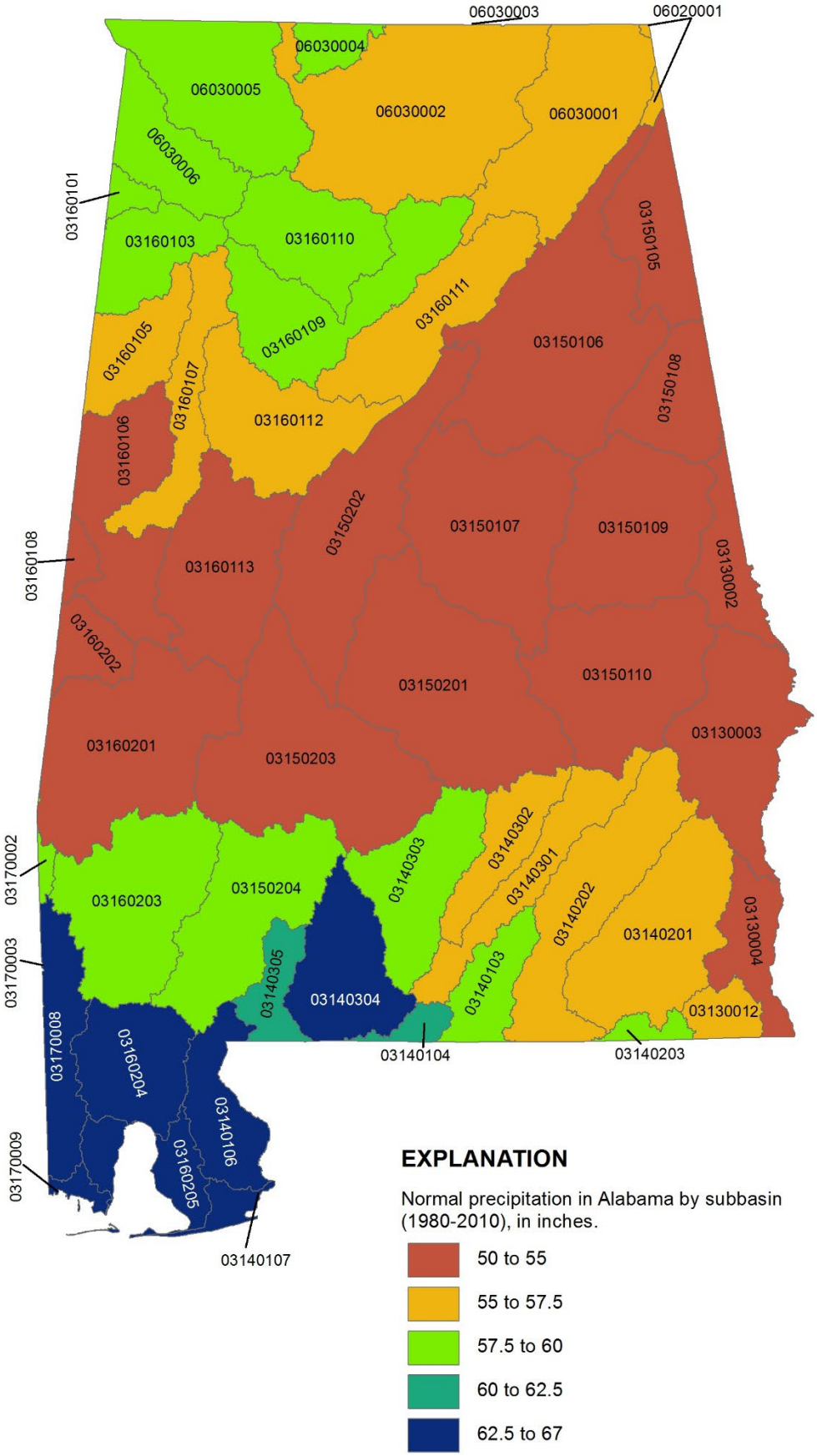


Figure 9. Map of 2015 precipitation departures from normal by county, in inches.

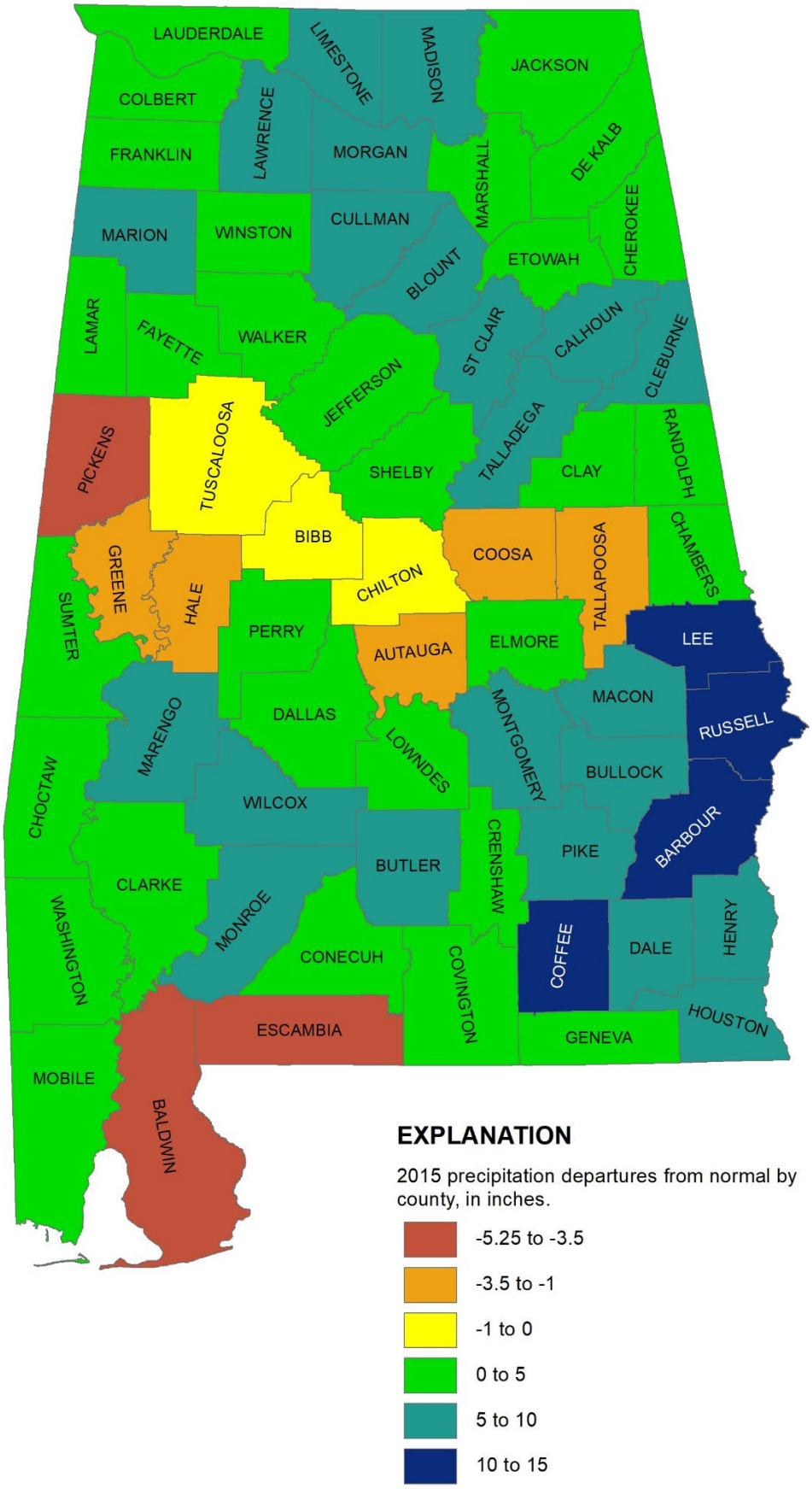


Figure 10. Map of 2015 precipitation departures from normal by subbasin, in inches.

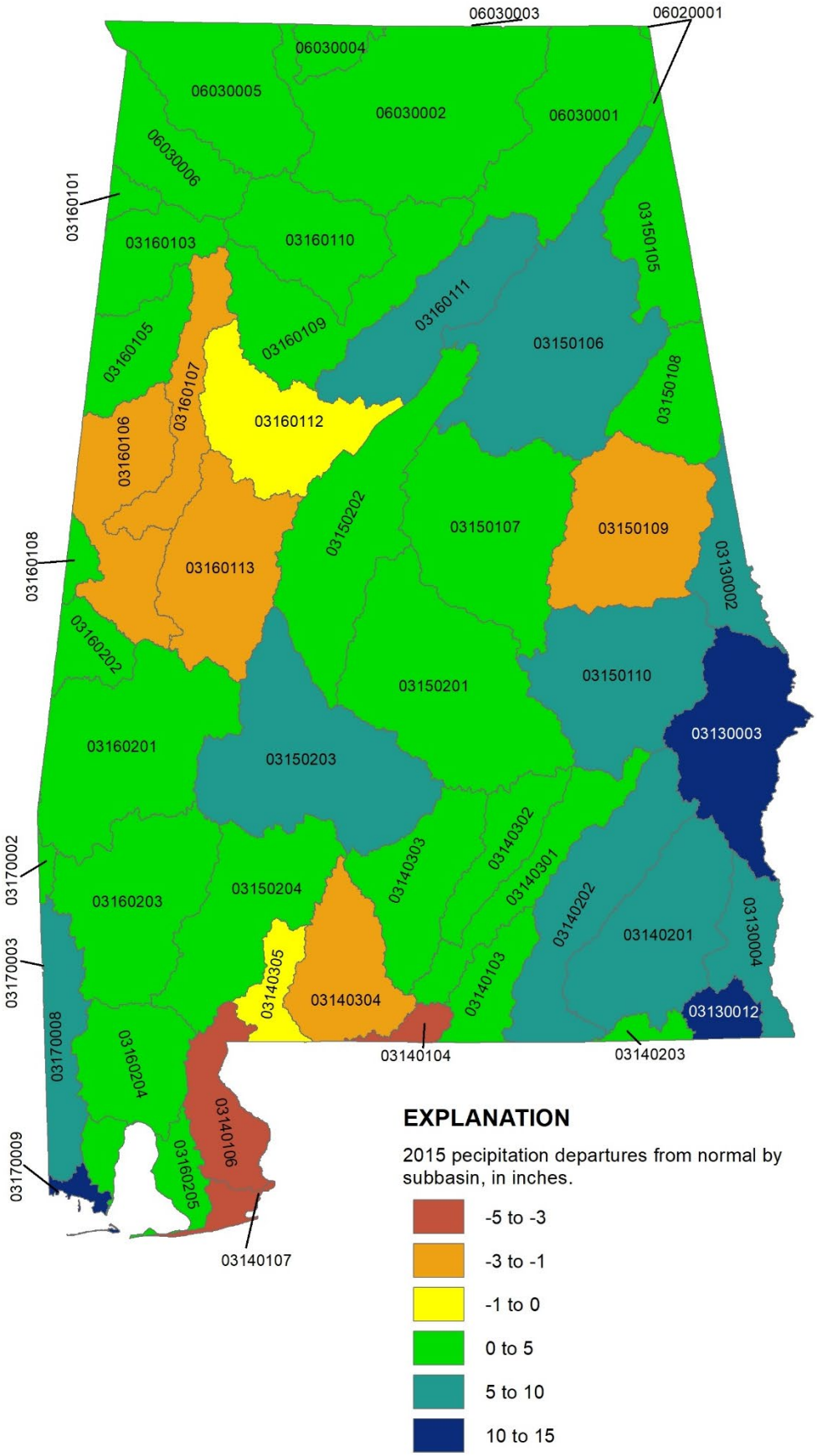


Table 1. Summary of 2015, normal, and departures from normal precipitation, by county, in inches.

County	2015 Observed Precipitation	Normal Precipitation (1980-2010)	2015 Departures from Normal	County	2015 Observed Precipitation	Normal Precipitation (1980-2010)	2015 Departures from Normal
AUTAUGA	52.34	54.01	-1.67	HOUSTON	64.73	54.99	9.74
BALDWIN	61.45	65.35	-3.90	JACKSON	59.59	57.53	2.07
BARBOUR	62.96	52.12	10.84	JEFFERSON	59.79	56.30	3.50
BIBB	55.23	55.25	-0.02	LAMAR	57.58	56.87	0.71
BLOUNT	61.61	55.69	5.92	LAUDERDALE	59.47	57.75	1.72
BULLOCK	59.64	52.77	6.87	LAWRENCE	62.05	56.96	5.09
BUTLER	62.08	56.29	5.78	LEE	65.21	51.28	13.93
CALHOUN	62.79	52.97	9.81	LIMESTONE	61.94	56.49	5.46
CHAMBERS	54.17	52.19	1.98	LOWNDES	56.77	52.91	3.85
CHEROKEE	57.81	54.34	3.47	MACON	61.03	51.98	9.05
CHILTON	54.50	54.55	-0.05	MADISON	61.00	55.82	5.18
CHOCTAW	58.56	54.93	3.63	MARENGO	58.87	53.76	5.11
CLARKE	60.04	56.93	3.11	MARION	64.30	58.92	5.38
CLAY	57.28	55.89	1.39	MARSHALL	58.90	54.53	4.37
CLEBURNE	60.24	54.07	6.18	MOBILE	69.79	64.96	4.83
COFFEE	68.47	56.35	12.12	MONROE	62.83	57.72	5.11
COLBERT	57.99	57.27	0.73	MONTGOMERY	59.38	52.37	7.01
CONECUH	60.88	60.76	0.12	MORGAN	61.46	56.19	5.27
COOSA	52.83	54.11	-1.27	PERRY	53.60	52.96	0.64
COVINGTON	60.40	59.71	0.69	PICKENS	49.45	54.57	-5.11
CRENSHAW	60.65	55.89	4.76	PIKE	60.77	54.16	6.61
CULLMAN	64.10	57.70	6.40	RANDOLPH	54.15	53.52	0.63
DALE	61.32	55.00	6.31	RUSSELL	60.43	48.78	11.65
DALLAS	54.04	52.70	1.34	SHELBY	57.89	55.18	2.70
DEKALB	58.84	55.28	3.56	ST. CLAIR	61.57	55.12	6.45
ELMORE	55.98	52.69	3.29	SUMTER	55.01	54.25	0.76
ESCAMBIA	59.61	64.19	-4.58	TALLADEGA	60.94	53.84	7.10
ETOWAH	57.54	54.74	2.80	TALLAPOOSA	51.11	53.62	-2.51
FAYETTE	57.28	57.14	0.13	TUSCALOOSA	54.11	55.09	-0.98
FRANKLIN	59.88	58.43	1.45	WALKER	61.21	58.02	3.19
GENEVA	61.80	57.73	4.07	WASHINGTON	60.17	60.16	0.00
GREENE	52.92	54.20	-1.28	WILCOX	63.49	54.56	8.93
HALE	51.66	53.94	-2.28	WINSTON	62.65	59.11	3.53
HENRY	59.53	53.68	5.85	**AVERAGE**	**59.22**	**55.66**	**3.56**

Table 2. Summary of 2015, normal, and departures from normal precipitation, by subbasin, in inches.

Hydrologic Subbasin	2015 Observed Precipitation	Normal Precipitation (1980-2010)	2015 Departures from Normal	Hydrologic Subbasin	2015 Observed Precipitation	Normal Precipitation (1980-2010)	2015 Departures from Normal
03130002	58.58	51.33	7.25	03160101	63.18	58.38	4.80
03130003	61.35	50.05	11.29	03160103	62.90	58.65	4.25
03130004	60.84	53.98	6.85	03160105	58.26	56.77	1.49
03130012	66.50	55.31	11.18	03160106	51.47	54.35	-2.89
03140103	61.99	59.69	2.29	03160107	54.48	56.05	-1.57
03140104	59.10	62.18	-3.09	03160108	54.35	54.30	0.05
03140106	61.48	66.10	-4.62	03160109	61.74	57.79	3.95
03140107	62.30	65.60	-3.30	03160110	63.16	58.48	4.68
03140201	62.94	55.06	7.88	03160111	61.06	55.51	5.54
03140202	64.49	55.79	8.70	03160112	55.72	56.18	-0.46
03140203	62.44	57.46	4.98	03160113	51.91	53.99	-2.07
03140301	59.49	56.16	3.32	03160201	58.39	54.37	4.01
03140302	58.36	55.58	2.78	03160202	55.38	54.44	0.94
03140303	60.05	57.59	2.46	03160203	58.78	58.52	0.26
03140304	60.32	63.09	-2.77	03160204	65.44	64.86	0.58
03140305	61.54	62.35	-0.80	03160205	66.63	66.50	0.13
03150105	58.44	54.67	3.78	03170002	62.77	57.82	4.95
03150106	61.43	54.27	7.16	03170008	70.44	63.70	6.74
03150107	55.04	54.14	0.90	03170009	78.71	66.39	12.32
03150108	58.35	54.18	4.18	06020001	58.23	55.77	2.47
03150109	51.52	53.91	-2.38	06030001	59.51	55.68	3.83
03150110	60.53	52.42	8.11	06030002	61.37	56.47	4.90
03150201	55.18	53.17	2.01	06030004	61.24	57.34	3.90
03150202	56.09	54.87	1.22	06030005	59.71	57.36	2.35
03150203	60.08	53.88	6.20	06030006	59.20	58.55	0.65
03150204	62.38	58.35	4.03	**Average**	**60.29**	**57.24**	**3.05**

Acknowledgements

The report would not have been possible without the numerous public water systems, businesses, organizations, and individual holders of Certificates of Use who provide information to OWR under the Alabama Water Use Reporting Program each year. The water-use information provided under this program allows OWR to maintain the most complete information in the state on where, how, when, and how much water is used monthly. We appreciate all the efforts COU holders expend to provide these annual reports to OWR.

The authors would also like to thank the personnel from the U.S. Geological Survey and the University of Alabama – Huntsville that contributed to this report. In addition, the authors also wish to express appreciation to ADECA's Communications and External Affairs Division for assistance with the report publication.

Data Compilation, Sources of Information, and Methodology for Withdrawals

Water-withdrawal data were compiled for eight sectors by county and by hydrologic subregion and subbasin (figures 2 and 3; Appendix A). Site-specific data were used as a basis for estimates for public supply, public-supplied deliveries, self-supplied industrial, mining, thermoelectric power, golf course, and nursery and sod irrigation. Aggregated county-level data were used as a basis for estimates for self-supplied residential, crop irrigation, livestock, and aquaculture. This section contains a detailed description of the methodology and sources of data used for determining total population, public-supply and residential water-use amounts, population served and self-supplied residential population, irrigation withdrawals and irrigated acreage, livestock, aquaculture, and mining withdrawals, and thermoelectric-power and industrial withdrawals.

Data sector by source and type of data are listed in table 3. Some sources, such as OWR, provided site-specific water withdrawal and source of water data for public suppliers, industries, and thermoelectric plants. Some sources, such as U.S. Department of Agriculture (USDA), provided county-level ancillary data, such as crop acreage, crop type, and crop application rate, which could be used to estimate an aggregated county irrigation water withdrawal. Some sectors, such as irrigation, depended on several sources of data to estimate total water withdrawals. Sources of information are more specifically discussed in the following sector sections.

This report uses similar terms and units from the 2005 and 2010 Reports. All water withdrawals in this report were compiled as freshwater, although some low-salinity and high-salinity withdrawals for aquaculture and low-salinity withdrawals for mining occurred in the State.

Water withdrawals are reported to the county, 4-digit hydrologic subregion, and 8-digit subbasin level (U.S. Geological Survey, 2007; U.S. Department of Agriculture, 2004; U.S. Department of Agriculture, Soil Conservation Service, 1993). Annual water use is expressed in terms of million gallons per day (MGD). Irrigation application rate is expressed as acre-feet per acre. Water use is normalized as a per capita use statistic (gallons per capita per day) in five different ways.

- Total water use is divided by the total population to yield gross per capita use, and includes water used to generate electricity, support industrial and agricultural activities, and provide drinking water.
- Public-supply water use is divided by the population served by public suppliers to yield gross public-supply per capita use and includes water delivered to the residential, industrial, commercial, and thermoelectric power sectors and public use and losses.
- Public-supply residential deliveries are divided by the population served to yield public-supplied residential per capita use.
- Self-supplied residential water withdrawals are divided by self-supplied population to yield self-supplied residential per capita use.

- Public-supplied residential deliveries plus self-supplied residential withdrawals are divided by the total population to yield residential per capita use.

In the tables, State, county, subregion, subbasin, and facility data are presented to two decimal places. In the text water withdrawal, return, and net demand totals are reported as whole numbers unless the use of decimals is needed to improve clarity. Percentages are based on the two-digit values in the tables and are expressed as whole numbers. All values are rounded independently; therefore, the sums of individually rounded numbers may not equal the totals given in this report.

Monthly Data

One of the more significant changes in this report over the previous reports published in the Water Use in Alabama series is the addition of monthly estimates for withdrawals, returns, and net consumption. The development of monthly data was accomplished from both the data reported to eWater and the use of analytical techniques to determine inter-annual fluctuations.

For the water withdrawal sectors, monthly data is provided for total withdrawals, public supply, irrigation, thermoelectric power, and industrial uses. The remaining categories (residential, livestock, aquaculture, and mining) lacked information for monthly estimates and average monthly calculations of annual estimates were used.

For the calculation of relative net demand ratios for each subbasin, monthly returns were developed and then subtracted from the monthly surface-water withdrawals to provide for monthly net consumption estimates. These monthly net consumption estimates were then divided by the monthly surface water availability to calculate the RND ratios for each subbasin.

Table 3. Summary of data sources of withdrawals by sector and type of data.

Water-use category	Data sources	Type of data
Public supply	OWR	Active public suppliers
		Monthly average-daily water withdrawals
		Source of water
		Public-supplier water deliveries by sector
	ADEM	Active public suppliers
		Monthly average-daily water withdrawals
		Source of water
	USEPA–SDWIS	Active and inactive public suppliers
	U.S. Census Bureau	Total population, total number of housing units, 2015
		Persons per household, 2015
		County population estimates, 2015
Residential	OWR	Public-supplier water deliveries by sector
	U.S. Census Bureau	Persons per household by county, 2015
		County population estimates, 2015
Irrigation	OWR	Source of water for crops, nurseries, and sod farms, application rates
	UAH	Land under center pivot irrigation, selected counties
	USDA–NASS	Irrigated acreage and crop types by county, 2012; application rates
	ADAI	Nursery and sod farm listing
	http://www.golflink.com/golf-courses/state.aspx?state=AL	Golf course listings and ancillary information
Livestock	USGS–NWUIP	County estimates of water withdrawals by source and quality of water
Aquaculture	USGS–NWUIP	County estimates of water withdrawals by source and quality of water
Mining	USGS–NWUIP	County estimates of water withdrawals by source and quality of water
	OWR	Some mine sites, monthly average-daily water withdrawals
Industry	OWR	Water withdrawals by source of water
Thermoelectric power	DOE–EIA	Water withdrawals by source and quality of water; power generation
	OWR	Water withdrawals
	Thermoelectric-power plants	Power generation

Total Population

The 2015 estimate of population by subbasin was derived from the 2015 census tract population estimates (U.S. Census Bureau, 2016). The 2015 census tract population estimates were aggregated and summarized for each of the 53 subbasins by approximating the subbasin delineations of census tracts that were separated by subbasin boundaries and summarizing the partial tract elements for each of the 53 individual subbasins.

Public Supply and Residential Water Withdrawals

For public supply, monthly estimates were made for groundwater and surface-water withdrawals at the county and subbasin levels, for residential deliveries and population served at the county level, and for industrial and commercial deliveries and public use and losses at the State level. Public-supply withdrawal estimates mostly were based on site-specific data (table 3). Raw water pumpage, or the finished water production upon which water withdrawals were estimated, is metered and reported as monthly average daily rates of withdrawal to OWR through mandatory annual AWURP reports, and to the Drinking Water Branch-Alabama Department of Environmental Management (DWB-ADEM) through mandatory monthly operational reports (MORs). Water sold to or purchased from other public suppliers was not included in this study. To ensure that the water withdrawals were compiled for the geographical area in which the withdrawals occurred, the county and subbasin locations of the water plants, surface-water intakes, wells, or well fields were verified. A comprehensive list of public suppliers was compiled from records from Alabama OWR, DWB-ADEM, Alabama Rural Water Association (ARWA), and the web-based Safe Drinking Water Information System (SDWIS) maintained by U.S. Environmental Protection Agency (USEPA) (U.S. Environmental Protection Agency, 2016)

Residential, industrial, and commercial deliveries and public use and loss estimates were based on a survey of the public suppliers conducted by OWR (Appendix F, figure F-1). Responses from public suppliers were used to estimate statewide residential deliveries for public suppliers with similar demographic and geographic characteristics. Water withdrawals and residential deliveries were counted in the county or subbasin in which they occurred. Public use and losses were estimated at the county level but reported only at the state level. Industrial and commercial deliveries were calculated by subtracting total residential deliveries and public use and losses from total public-supply water withdrawals.

Residential water use is the sum of residential deliveries plus self-supplied residential withdrawals. Self-supplied residential withdrawals were not reported as part of the AWURP and were not collected as part of this study. Instead, self-supplied residential withdrawals were estimated from a self-supplied population and a per household use coefficient for each county. The self-supplied population was divided by the number of persons per household in 2015 to yield the number of self-supplied housing units in 2015. The per household use coefficients were derived from a subset of the OWR Alabama Public Water System Survey consisting of the small public suppliers with primarily rural residential deliveries. Self-supplied households were assumed to use the same amount of water as public-supplied rural households. For 2015, the average monthly rural household use by county ranged from 2,390 to 8,771 gallons per month.

Population Served and Self-Supplied Residential Population

County populations and numbers of households (2011-2015) were taken from Census Quickfacts at https://www.census.gov/quickfacts/AL. The population served by public suppliers and self-supplied population were estimated for each county by assuming all change in population was to public supply, thus leaving the estimated self-supplied population the same as the 2010 Report.

Irrigation

The irrigation sector consists of surface-water and groundwater withdrawals and the number of acres by irrigation-system type for crops, nurseries, sod farms, and golf courses. Estimates of water withdrawals by county for crops were derived from the estimated number of acres in 2012 in the Census of Agriculture (U.S. Department of Agriculture, 2014) and a study conducted by the University of Alabama Huntsville (UAH). The two data sources were studied and the source with the highest irrigated acreage for a given county was taken. Application rates were obtained through a survey of registered irrigation COU holders (Appendix G) and by using known coefficients published in earlier reports. Certain irrigated crop types in various counties were not available due to disclosure limitations. In the counties where this occurred, the average application rate for all crops grown that were not disclosed was used in place of the particular crop application rate. Crop application rates ranged from 0.40 to 0.70 acre-feet per acre. Sprinkler systems typically were used to irrigate corn, cotton, soybeans, and vegetables; microirrigation systems typically were used to irrigate fruits, nuts, and vegetables; and surface systems typically were used to irrigate vegetables. In the short-term, application rates are likely to vary annually according to the amount and timing of precipitation, antecedent soil conditions, and crop type. Due to the nondisclosure of some of the irrigated crop types, determining the percent of acreage irrigated by sprinkler, microirrigation, and surface systems was not completed. Over the long-term, application rates are influenced by changes in technology, farming practices, and climate.

Water withdrawals for nursery and sod farm operations were estimated from the number of acres per operation (Alabama Department of Agriculture and Industries, Division of Plant Protection, 2016) and by using an application rate of 5.29 acre-feet per acre. The application rate was developed from surveys of registered nursery COUs. The percentage of surface-water and groundwater withdrawals by county was determined independently for crops, nurseries, and sod farms from site-specific data in eWater, local water-supply characteristics, and historical water-use patterns. Crop (food and feed crops), nursery, and sod farm water withdrawals and acreage by irrigation-system type were combined in the crop irrigation subsector.

Water withdrawals for golf courses were estimated from site-specific data in eWater, a web search (TheGolfCourses.net, 2016), and reported golf course withdrawals as part of the AWURP. All water withdrawals were assumed to be from surface water and applied with sprinkler systems because reliable source-of-supply data were limited; however, some golf courses were known to use groundwater in 2015. The 275 golf courses, covering approximately 22,700 acres, were classified into three tiers: Tier 1, extensive watering; Tier 2, frequent watering; and Tier 3, essential watering (table 4). A water withdrawal was estimated for each golf course based on a number of

holes and a tier classification coefficient. For example, an 18-hole golf course in Tier 1 would have withdrawn 0.21 MGD in 2015. Although the dataset from which the application rates were derived indicated individual differences in withdrawal amounts across the State according to geographic location, soil types, and management practices, the tier classification represents typical golf course usage based on watering practices.

In Alabama, some golf courses are able to water greens, tees, fairways, and, often, driving ranges, and ornamental plants and shrubs because of the installation of an extensive irrigation system and plentiful water (Tier 1). Other golf courses water less extensively, often only tees and greens (Tier 2). The remaining golf courses, because of cost or a limited water supply, confine watering to greens and sometimes tees and fairways if the viability of the turf is threatened and water is available (Tier 3). Generally, watering for all tiers occurs every 3 days; however, weather conditions can affect the watering schedule. Warmer and drier weather necessitates more watering and cooler or wetter weather necessitates less watering. Most of the watering occurs May through October; any additional watering from November through April is generally to aid in application of fertilizer or herbicides.

Table 4. Golf course classification and tier classification coefficients.

(Classification coefficient is amount applied, in million gallons per day)

Golf Course Classification	Tier Classification Coefficients	Acres Irrigated
Tier 1 – Extensive Watering	0.207	110
Tier 2 – Frequent Watering	0.157	100
Tier 3 – Essential Watering	0.098	55

Water withdrawals by subbasin were determined for the subsector crop, which includes crops, nurseries, and sod farms, using ratios developed by county/subbasin relationships. The subbasin boundaries were superimposed on the county boundaries to create a subbasin/county areal unit. Each subbasin/county unit represents a percent of the subbasin area within a county. Surface-water and groundwater withdrawals were distributed among the subbasin/county units based on the assigned areal percentage. Water withdrawals for each subbasin/county unit were summarized by subbasin. Addresses obtained from the master lists for golf courses were used to assign the estimated withdrawals for the specific sites to the correct subbasin.

Livestock, Aquaculture, and Mining

County-level water withdrawals by source for livestock, aquaculture, and mining were from estimates determined by the USGS National Water Use Information Program (NWUIP) as part of the Federal effort to estimate water use for the United States for 2015. Water withdrawals for livestock, aquaculture, and mining by subbasin were determined by using the same methodology as discussed in the previous section for the subsector crop. Livestock withdrawals are not reported as a specific sector within the AWURP and were not collected as part of this study.

Estimates of livestock withdrawals by county were calculated from the 2012 Census of Agriculture and state-level per animal water use coefficients. Methods used to estimate withdrawals for livestock are documented in *"Method for Estimating Water Withdrawals for Livestock in the United States, 2005"* (Lovelace, 2009).

In 2015, aquaculture estimates were made the same way as in 2005, which were based on counts of aquaculture production units (such as farm acreage, water replacement rates, stocking rates of various fish, etc.) from The Census of Aquaculture and were detailed in *"Methods for Estimating Withdrawals for Aquaculture in the United States, 2005"* (Lovelace, 2009).

Mining water use was estimated from per ton water-use coefficients and crude ore production in tons for 2015 from the USGS Minerals Information Team, from coal production in tons from the Department of Energy, Energy Information Administration (DOE-EIA), and from site-specific mining withdrawal data reported to the AWURP. Methods used to estimate withdrawals for mining are documented *in "Method for Estimating Water Withdrawals for Mining in the United States, 2005"* (Lovelace, 2009).

Thermoelectric Power and Industrial

Thermoelectric-power and industrial water use were estimated from site-specific data. The primary sources of data for thermoelectric-power water withdrawals and power produced were the AWURP database—eWater, DOE-EIA, and the individual thermoelectric-power facilities (table 3). Water withdrawals were reported in the county or subbasin in which the withdrawals occurred. It was not possible to separate the power for a nuclear plant that used both once-through cooling and closed-cycle cooling. All power, therefore, was reported with the larger withdrawals associated with once-through cooling instead of the smaller withdrawals associated with closed-cycle cooling.

The AWURP application, eWater, stores monthly average daily water withdrawal information as well as location and source type information. For 2015, steam-electric plants with a nameplate rating of 10 megawatts or more provided information about cooling type, water withdrawal, return flow, and consumptive use by generating unit (except for nuclear power plants) to DOE-EIA, and all power plants provided power generation by generating unit (Energy Information Administration, 2017).

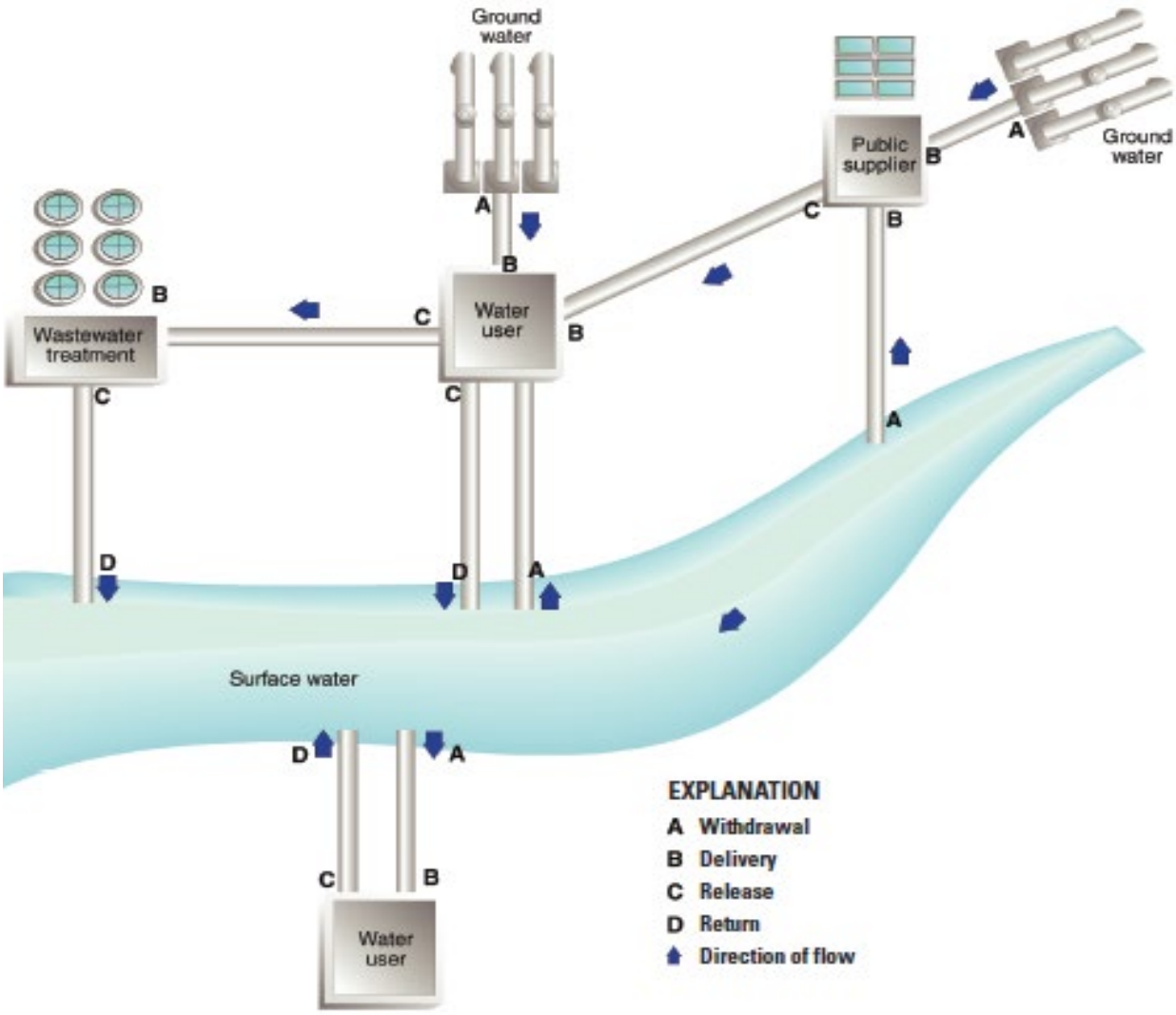
Total industrial water use is the sum of self-supplied industrial and commercial withdrawals and public-supplied industrial and commercial deliveries. Monthly self-supplied industrial withdrawals by source were reported by individual industries to the AWURP for 2010. NAICS codes for those industries were obtained from the Alabama Directory of Manufacturers (Alabama Department of Commerce, 2014). Public-supply deliveries to industrial and commercial users were determined at the State level from the OWR Alabama Public Water System Survey for 2015 (Appendix F, figure F-1).

Water Withdrawals

Water Infrastructure

Water can be withdrawn from rivers, reservoirs, and aquifers to meet offstream needs for public supply, self-supplied residential, irrigation, livestock, aquaculture, self-supplied industrial, mining, and thermoelectric-power generation. A conceptual diagram of how water is withdrawn and returned is shown in figure 11.

Figure 11. Schematic showing the interrelation of water using sites (modified from Hutson and others, 2004a).



Instream Water Uses

Water in river and reservoir systems is used instream for hydroelectric power generation, navigation, recreation, maintaining minimum streamflows to support fish and wildlife habitat, and for wastewater assimilation. Groundwater contributes to baseflow in streams and rivers. Instream

use occurs without diverting or withdrawing water from surface-water sources. Although assessing instream water use in the Alabama subbasins was beyond the scope of this report, some hydroelectric power and navigation instream-use statistics were included because instream uses compete with offstream uses and can affect the quality and quantity of available water. Hydroelectric power is generated in Alabama by the PowerSouth Energy Cooperative (PSEC), Alabama Power Company (APC), Tennessee Valley Authority (TVA), and U.S. Army Corps of Engineers (USACE)–Mobile District at 21 mainstem and tributary locations (Appendix H). Georgia Power Company (GPC) and the USACE generate power from six facilities located on the Chattahoochee River bordering Alabama. Total generating capacity for the 27 plants is 3.58 gigawatts (Harper and Turner, 2014).

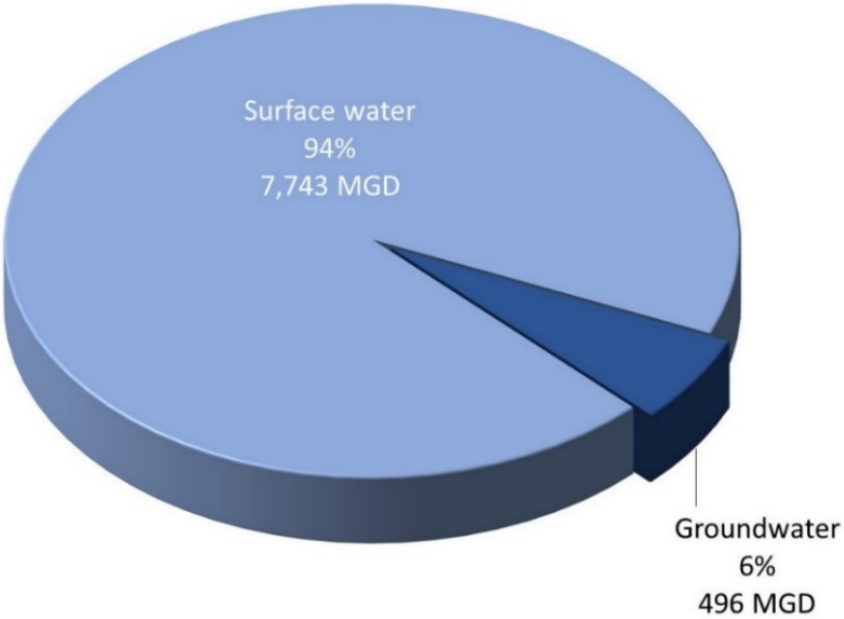
Navigation maintenance within Alabama is important for commercial shipping and recreational boating. USACE tries to maintain a 9-foot (ft.) channel on the navigable stretches of the Alabama-Coosa-Tallapoosa and the Apalachicola-Chattahoochee-Flint river systems. TVA maintains an 11-ft. channel on the mainstem of the Tennessee River, and the U.S. Coast Guard maintains a 12-ft. channel in the Intracoastal Waterway. Passage also is maintained on many miles of secondary channels for recreational use. The instream use of hydroelectric power and navigation does not affect consumptive use because the water remains in the river systems.

Total Water Withdrawals

Total water withdrawals in Alabama for 2015 were determined from estimates of water withdrawals for eight sectors—public supply, self-supplied residential, irrigation, livestock, aquaculture, self-supplied industrial, mining, and thermoelectric power. Total withdrawals were estimated to be 8,239 MGD. Estimates of withdrawals by source indicate that total surface-water withdrawals were 94 percent of the total (7,743 MGD), and the remaining 6 percent was from groundwater (496 MGD; figure 12). Gross per capita use averaged 1,696 gal/d for the 4,858,979 residents in Alabama (U.S. Census Bureau, 2016). Gross per capita use is the total water withdrawn divided by the total population. The large per capita use is a result of the large thermoelectric-power withdrawals in relation to the population size. Values may not sum to total estimated use(s) because of rounding. For a detailed summary of average water withdrawals by county and subbasin, respectively, according to source of water, water-use sector, public supplier, and North American Industry Classification System (NAICS) code, see Appendices B and C.

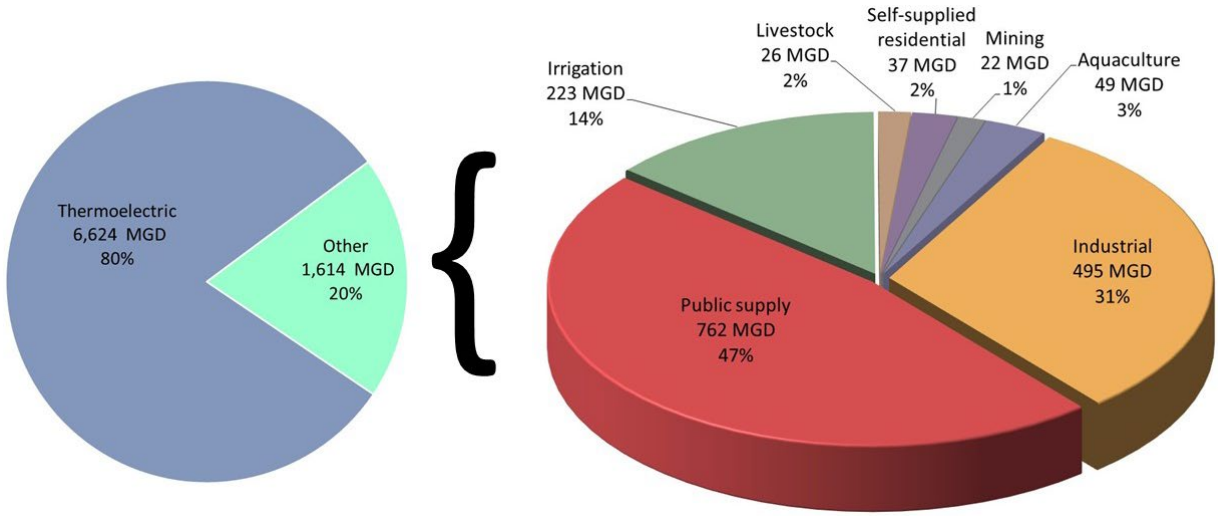
Total residential water use, which is a combination of public-supplied residential deliveries and self-supplied residential withdrawals, was 358 MGD (See the “Residential Withdrawals” section in this report). Total industrial water use, which is a combination of self-supplied industrial and commercial withdrawals (495 MGD) and public-supplied industrial and commercial deliveries (288 MGD), was 783 MGD (See the “Industrial Withdrawals” section in this report.)

Figure 12. Withdrawals by source in Alabama for 2015, in MGD.



Total withdrawals by source and sector for counties and hydrologic subbasins are listed in tables 5 through 18 with tables 6 through 8 and 10 through 12 showing monthly total withdrawals by source and sector. For 2015, thermoelectric power accounted for 80 percent of the total water withdrawals or 6,624 MGD (figure 13). Combined, the public supply and self-supplied industrial sectors accounted for 15 percent of the total withdrawals (762 MGD and 495 MGD, respectively) and irrigation, aquaculture, self-supplied residential, livestock, and mining made up the remaining 5 percent. More than half of the groundwater withdrawals, 55 percent, were for public supply (table 16). Fifteen percent or 74 MGD of the statewide groundwater use was in Baldwin County. Sixty four percent (64%) of Baldwin County's groundwater use was for irrigation, and 32 percent was for public supply. The 12 counties withdrawing 10 MGD or more of groundwater, primarily for public supply and irrigation, accounted for 58 percent of the total groundwater withdrawals in the State (table 16). Surface water is the primary source for all sectors except aquaculture, mining, and self-supplied residential (tables 15-17). Eighty-six percent (86%) of the surface-water withdrawals were for thermoelectric power, and the largest surface-water withdrawals were in Limestone County (table 15). Sixty-seven percent (67 %) of the surface-water withdrawals—primarily for thermoelectric power—occurred in Limestone, Colbert, (Middle Tennessee–Elk subregion), Walker (Mobile-Tombigbee subregion) and Mobile (Mobile–Tombigbee subregion) Counties.

Figure 13. Comparison of withdrawals by sector of use in Alabama in 2015 [values may not sum to total estimated because of rounding.]



The geographic distribution of total, groundwater, and surface-water withdrawals by county and by hydrologic subbasin is shown in figures 14 and 15. The largest total water withdrawals occurred in Limestone and Colbert Counties (47 percent of the total), primarily to meet the cooling needs at thermoelectric-power plants. Excluding thermoelectric power, the largest withdrawals occurred in Morgan, Mobile, Baldwin, and Madison Counties (table 13).

Estimates of public-supply, self-supplied residential, irrigation, livestock, aquaculture, industrial, mining, and thermoelectric-power withdrawals by source of water for hydrologic subregion and subbasin and are shown in tables 14, 16, and 18. The Middle Tennessee–Elk subregion accounted for 55 percent (4,520 MGD) of the 8,239 MGD total estimated withdrawals. Ninety two percent of that water was for thermoelectric power, and nearly all the withdrawals were from surface water. Excluding thermoelectric power, the Alabama subregion accounted for 33 percent of the water withdrawals statewide. The second largest use sector in the Alabama subregion was public supply, approximately 45 percent (245 MGD) of the total withdrawals excluding thermoelectric power in the subregion.

Figure 14. Map of total withdrawals by source and county in Alabama in 2015, in MGD.

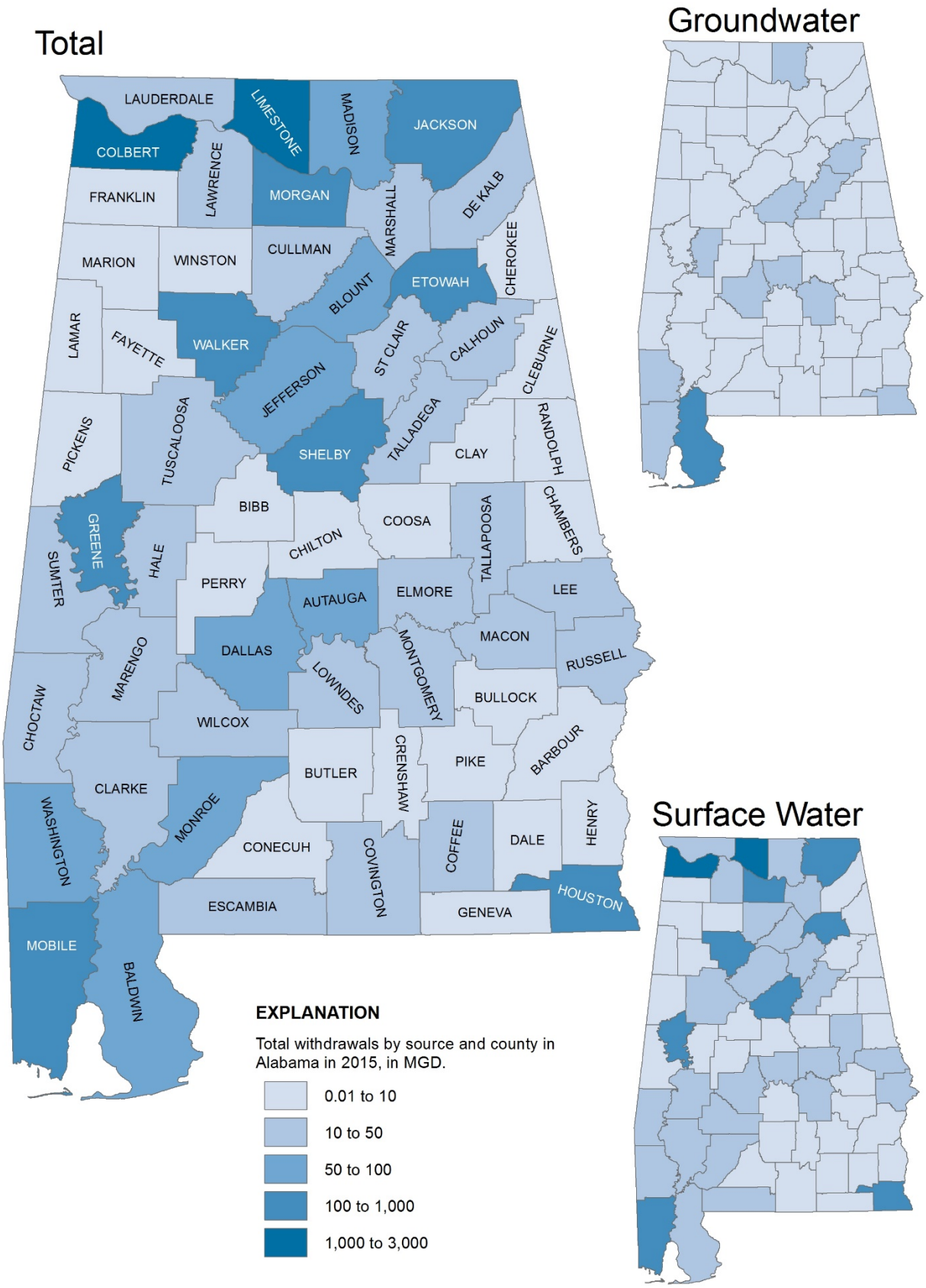


Figure 15. Map of total withdrawals by source and hydrologic subbasin in Alabama in 2015, in MGD.

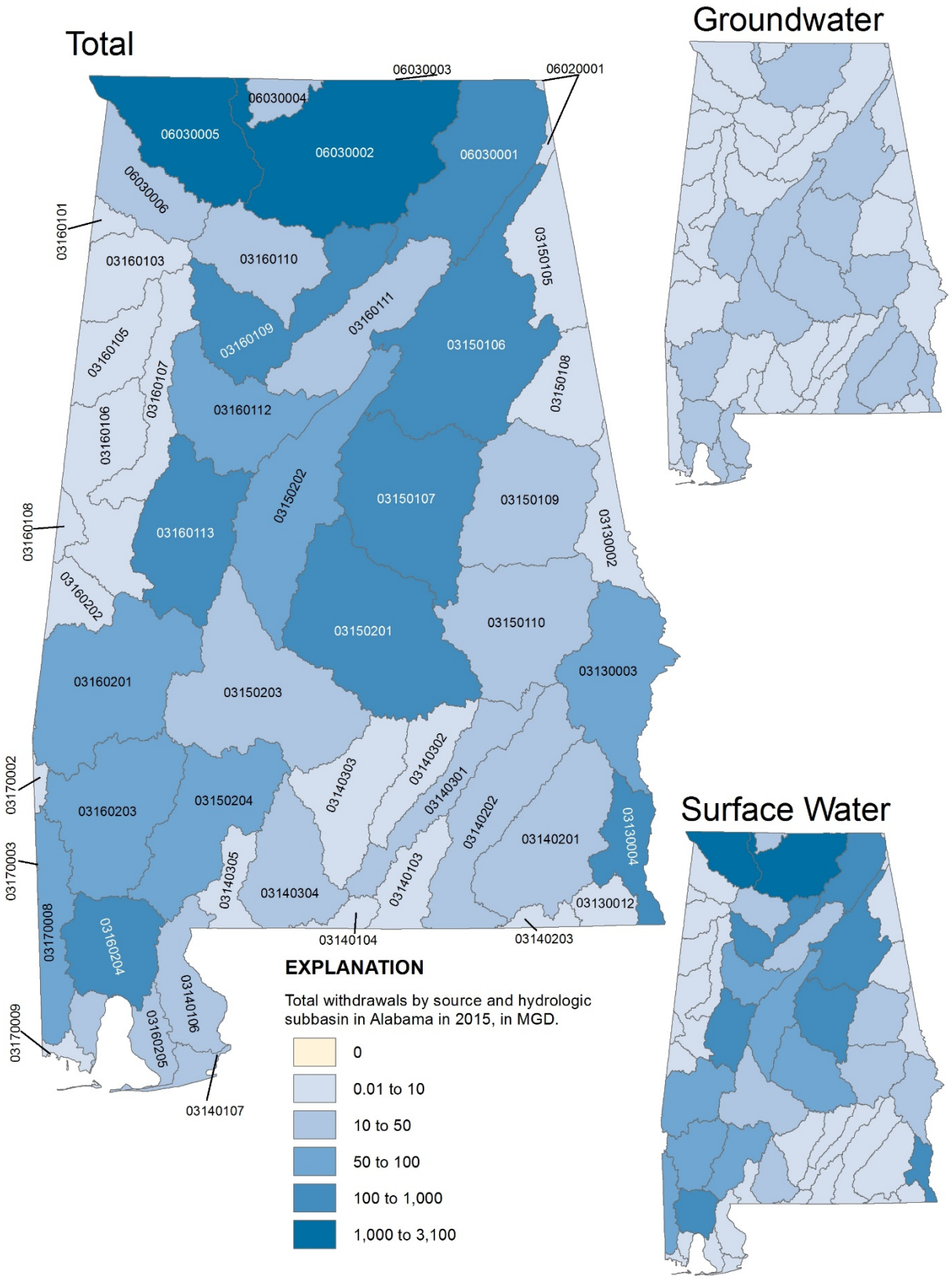


Figure 16 provides an overview of the sources and use of water in Alabama. In this figure, the eight water-use sectors previously mentioned have been grouped into four categories of similar water uses: thermoelectric power, industrial (combined self-supplied industrial, commercial, and mining withdrawals and industrial, commercial, and thermoelectric-power deliveries), residential (combined self-supplied residential withdrawals, public-supplied residential deliveries, and public use and losses), and agriculture (aquaculture, irrigation, and livestock). Figure 16 shows that surface water was the source for 7,743 MGD (table 17). Of this total, 6,624 MGD was used for thermoelectric power. The 762 MGD (table 13) withdrawn by public suppliers was distributed to commercial and industrial (288 MGD) with the remaining 474 MGD split between residential (321 MGD) and public use and losses (153 MGD).

Figure 16. Sources and withdrawal of water in Alabama in 2015, in MGD.

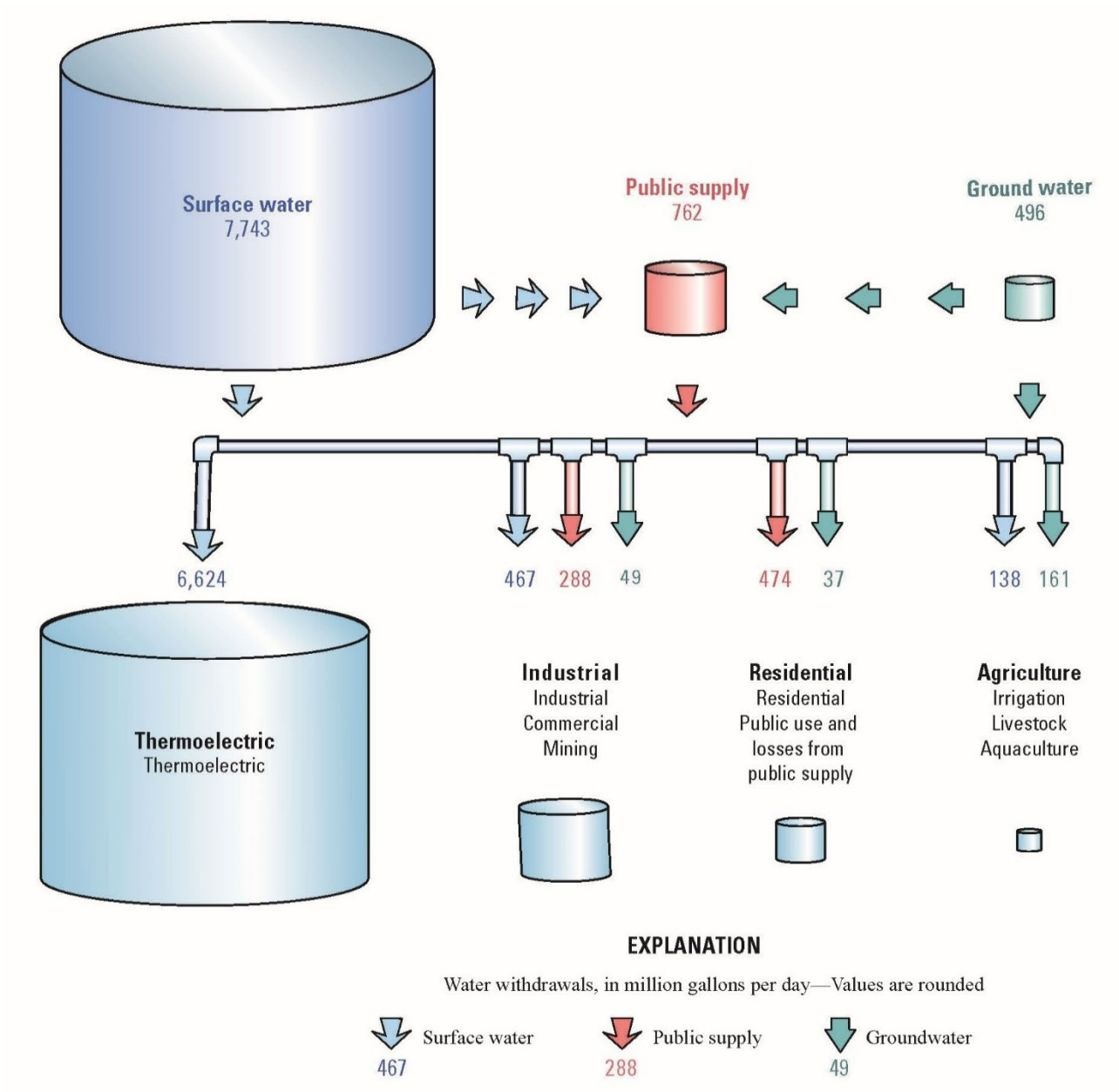


Table 5. Total withdrawals by source and county in Alabama in 2015, in MGD.

County	Population	Withdrawals by source, in million gallons per day			Gross per capita use, in million gallons per person per day
		Groundwater	Surface water	Total	
AUTAUGA	55,347	10.70	45.72	56.43	1,019
BALDWIN	203,709	73.52	11.36	84.88	417
BARBOUR	26,489	6.07	2.98	9.04	341
BIBB	22,583	5.42	0.20	5.61	249
BLOUNT	57,673	4.46	55.44	59.90	1,039
BULLOCK	10,696	3.16	1.23	4.39	410
BUTLER	20,154	2.89	1.18	4.07	202
CALHOUN	115,620	24.33	6.27	30.60	265
CHAMBERS	34,123	0.63	4.49	5.12	150
CHEROKEE	25,859	3.60	3.84	7.43	287
CHILTON	43,943	3.96	2.14	6.09	139
CHOCTAW	13,170	1.65	46.80	48.45	3,679
CLARKE	24,675	3.85	22.62	26.47	1,073
CLAY	13,555	0.49	2.11	2.60	192
CLEBURNE	15,018	1.09	0.81	1.90	127
COFFEE	51,211	9.91	3.65	13.56	265
COLBERT	54,354	1.90	1,003.23	1,005.13	18,492
CONECUH	12,672	1.64	0.25	1.89	149
COOSA	10,724	0.62	0.12	0.74	69
COVINGTON	37,835	6.60	3.67	10.26	271
CRENSHAW	13,963	2.39	1.00	3.39	242
CULLMAN	82,005	2.33	26.83	29.16	356
DALE	49,565	7.13	2.02	9.14	184
DALLAS	41,131	15.89	37.47	53.36	1,297
DEKALB	71,130	3.73	8.85	12.58	177
ELMORE	81,468	5.67	12.99	18.66	229
ESCAMBIA	37,789	9.20	33.39	42.59	1,127
ETOWAH	103,057	4.81	127.91	132.73	1,288
FAYETTE	16,759	0.62	2.42	3.05	182
FRANKLIN	31,696	2.05	6.25	8.29	262
GENEVA	26,777	5.47	3.41	8.89	332
GREENE	8,479	6.16	382.71	388.87	45,863
HALE	15,068	13.43	7.66	21.09	1,400
HENRY	17,221	3.70	4.62	8.32	483

Table 5. Total withdrawals by source and county in Alabama in 2015, in MGD – Continued.

County	Population	Withdrawals by source, in million gallons per day			Gross per capita use, in million gallons per person per day
		Groundwater	Surface water	Total	
HOUSTON	104,173	25.64	101.65	127.29	1,222
JACKSON	52,419	1.93	374.01	375.94	7,172
JEFFERSON	660,367	9.87	47.43	57.30	87
LAMAR	13,886	1.86	0.30	2.16	156
LAUDERDALE	92,596	3.77	12.05	15.82	171
LAWRENCE	33,115	0.76	10.76	11.52	348
LEE	156,993	3.91	15.97	19.88	127
LIMESTONE	91,663	7.54	2,865.39	2,872.94	31,342
LOWNDES	10,458	6.31	6.89	13.21	1,263
MACON	19,105	5.01	6.07	11.08	580
MADISON	353,089	34.86	43.08	77.95	221
MARENGO	20,028	4.29	19.79	24.08	1,202
MARION	30,168	1.60	5.71	7.32	243
MARSHALL	94,725	5.17	22.31	27.48	290
MOBILE	415,395	31.68	752.37	784.05	1,887
MONROE	21,673	3.50	49.63	53.13	2,452
MONTGOMERY	226,519	20.90	18.02	38.93	172
MORGAN	119,565	0.81	117.91	118.72	993
PERRY	9,652	5.37	2.05	7.42	769
PICKENS	20,864	4.20	2.93	7.13	342
PIKE	33,046	5.56	1.39	6.94	210
RANDOLPH	22,696	0.88	1.64	2.53	111
RUSSELL	59,660	3.93	40.58	44.51	746
SHELBY	208,713	13.14	466.22	479.36	2,297
ST CLAIR	87,074	7.41	13.92	21.33	245
SUMTER	13,103	4.26	6.09	10.35	790
TALLADEGA	80,862	11.84	37.51	49.35	610
TALLAPOOSA	40,844	0.49	12.83	13.32	326
TUSCALOOSA	203,976	4.59	37.04	41.63	204
WALKER	65,294	1.16	708.96	710.12	10,876
WASHINGTON	16,804	12.50	43.61	56.11	3,339
WILCOX	11,059	1.18	22.11	23.30	2,106
WINSTON	23,877	0.61	1.14	1.74	73
Total	**4,858,979**	**495.64**	**7,743.00**	**8,238.64**	**1,696**

Table 6. Monthly total groundwater withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
AUTAUGA	8.50	8.50	8.73	9.42	11.55	13.16	13.44	13.31	12.09	11.15	9.36	9.04	10.70
BALDWIN	43.32	50.24	54.56	62.49	80.84	96.06	99.55	99.45	93.22	85.83	62.55	52.59	73.52
BARBOUR	5.55	5.31	5.47	5.81	6.47	7.35	7.49	6.79	5.92	5.83	5.45	5.27	6.07
BIBB	5.10	5.22	5.03	5.19	5.49	5.81	5.79	5.67	5.60	5.57	5.34	5.17	5.42
BLOUNT	4.53	4.37	4.63	4.57	4.38	4.88	5.00	4.38	4.24	4.28	4.15	4.16	4.46
BULLOCK	2.62	2.59	2.68	2.85	3.32	4.03	4.29	3.92	3.22	3.06	2.73	2.58	3.16
BUTLER	2.98	2.70	2.92	2.73	3.21	2.99	3.07	3.05	2.91	2.80	2.72	2.60	2.89
CALHOUN	23.77	24.41	23.35	22.58	24.87	26.13	26.75	26.92	24.63	23.55	22.93	22.04	24.33
CHAMBERS	0.58	0.59	0.60	0.61	0.65	0.71	0.71	0.68	0.63	0.62	0.59	0.59	0.63
CHEROKEE	3.55	3.29	3.31	3.34	3.53	3.86	4.08	3.85	3.68	3.52	3.53	3.59	3.60
CHILTON	3.77	3.66	3.69	3.37	3.97	4.58	4.48	4.21	4.27	4.19	3.78	3.51	3.96
CHOCTAW	1.88	1.66	1.61	1.59	1.73	1.62	1.66	1.68	1.57	1.57	1.63	1.62	1.65
CLARKE	3.93	3.81	3.79	4.08	3.81	3.95	4.02	3.80	3.88	3.82	3.72	3.63	3.85
CLAY	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
CLEBURNE	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
COFFEE	7.87	7.71	8.19	9.20	11.02	12.67	12.51	11.93	10.92	9.78	8.67	8.27	9.91
COLBERT	1.30	1.20	1.42	1.61	2.36	3.33	3.44	2.69	1.66	1.45	1.13	1.13	1.90
CONECUH	1.39	1.36	1.37	2.44	2.60	1.70	1.68	1.60	1.50	1.31	1.36	1.39	1.64
COOSA	0.64	0.62	0.58	0.67	0.62	0.63	0.61	0.65	0.61	0.63	0.63	0.59	0.62
COVINGTON	5.11	5.80	5.81	6.14	7.18	7.92	8.06	7.77	7.11	6.68	5.84	5.70	6.60
CRENSHAW	2.39	2.14	2.12	2.10	2.41	2.49	2.53	2.70	2.56	2.49	2.33	2.38	2.39
CULLMAN	1.91	1.88	1.95	2.86	3.04	2.85	2.36	1.80	1.76	2.78	2.62	2.16	2.33
DALE	6.42	6.39	6.08	6.98	8.32	8.46	8.94	8.37	7.54	5.84	5.21	6.90	7.13
DALLAS	15.32	15.31	15.63	15.64	15.72	16.35	16.60	16.62	16.46	16.29	15.00	15.69	15.89
DEKALB	3.54	3.51	3.55	3.60	3.77	3.96	3.88	3.86	3.89	3.89	3.69	3.55	3.73
ELMORE	4.93	4.62	5.56	5.59	6.73	6.63	6.66	6.37	5.73	5.22	4.94	4.97	5.67
ESCAMBIA	8.50	8.29	8.26	8.84	9.49	10.77	10.27	10.31	9.66	9.01	8.55	8.40	9.20
ETOWAH	4.62	4.73	4.69	4.68	4.98	5.27	5.35	5.14	4.89	4.71	4.40	4.28	4.81
FAYETTE	0.63	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.62	0.62	0.62	0.62
FRANKLIN	2.04	2.04	2.01	2.05	2.09	2.11	2.15	2.12	2.04	1.99	1.93	1.99	2.05
GENEVA	3.56	3.87	4.14	4.78	6.30	8.32	8.47	7.54	5.77	5.17	4.00	3.66	5.47
GREENE	5.93	5.88	5.86	6.11	6.23	6.40	6.61	6.47	6.28	6.15	6.02	6.02	6.16
HALE	12.57	12.63	12.89	12.96	13.81	15.06	15.19	14.58	13.25	12.92	12.66	12.60	13.43
HENRY	2.27	2.50	2.86	3.27	4.58	5.80	5.97	5.12	3.63	3.24	2.59	2.43	3.70

Table 6. Monthly total groundwater withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
HOUSTON	18.50	19.17	23.28	24.47	28.32	34.37	36.25	31.68	26.50	22.73	19.60	22.27	25.64
JACKSON	1.84	1.83	1.78	1.82	1.94	2.01	2.02	2.04	2.04	2.02	1.88	1.89	1.93
JEFFERSON	10.26	9.06	8.93	9.28	11.48	10.01	10.42	10.72	9.11	9.48	8.30	11.23	9.87
LAMAR	1.95	1.86	1.80	1.71	1.80	1.86	1.87	1.84	1.75	1.74	1.86	2.29	1.86
LAUDERDALE	3.36	3.52	3.56	3.60	3.84	4.17	4.21	4.16	3.96	3.76	3.57	3.50	3.77
LAWRENCE	0.74	0.74	0.75	0.75	0.77	0.78	0.78	0.78	0.78	0.78	0.76	0.75	0.76
LEE	3.72	3.73	3.71	3.71	4.10	4.26	4.41	4.33	4.15	3.98	3.60	3.21	3.91
LIMESTONE	6.69	5.85	6.38	7.34	8.66	9.51	9.58	9.18	7.76	7.22	6.51	5.70	7.54
LOWNDES	6.20	5.91	6.06	6.24	6.37	6.53	6.54	6.54	6.46	6.27	6.44	6.17	6.31
MACON	4.99	3.07	3.37	3.77	4.28	5.19	6.30	6.49	6.67	6.40	4.31	5.11	5.01
MADISON	29.02	30.51	30.30	30.79	37.96	44.50	48.58	41.60	35.95	32.03	28.26	28.45	34.86
MARENGO	4.11	4.06	4.14	4.16	4.34	4.54	4.64	4.62	4.37	4.35	4.07	4.05	4.29
MARION	1.48	1.50	1.65	1.56	1.62	1.82	1.83	1.74	1.57	1.53	1.48	1.47	1.60
MARSHALL	4.67	4.75	4.64	4.87	5.48	5.60	5.85	5.68	5.51	4.92	5.12	4.86	5.17
MOBILE	26.37	26.63	28.37	29.48	33.17	37.10	36.90	37.12	35.31	33.42	28.76	27.15	31.68
MONROE	3.14	3.52	3.24	3.22	3.61	4.30	4.41	3.94	3.37	3.28	2.93	3.04	3.50
MONTGOMERY	23.28	13.81	19.64	20.78	21.25	22.84	22.84	24.66	24.13	21.80	17.94	17.24	20.90
MORGAN	0.73	0.75	0.77	0.78	0.82	0.86	0.86	0.88	0.87	0.85	0.78	0.75	0.81
PERRY	5.63	4.52	4.65	4.61	5.34	5.88	6.46	6.39	5.67	5.72	4.89	4.57	5.37
PICKENS	3.78	3.59	4.28	3.73	3.91	4.10	5.01	4.62	4.61	4.48	4.17	4.04	4.20
PIKE	4.87	4.59	4.64	4.89	6.03	6.91	7.22	7.11	5.92	5.32	4.68	4.39	5.56
RANDOLPH	0.87	0.87	0.87	0.88	0.89	0.91	0.91	0.90	0.89	0.88	0.87	0.87	0.88
RUSSELL	4.79	3.88	3.78	3.77	3.88	4.02	4.01	3.90	3.93	3.73	3.71	3.74	3.93
SHELBY	12.04	11.84	11.48	12.10	13.51	14.52	14.64	14.82	14.54	14.06	12.29	11.79	13.14
ST CLAIR	7.34	7.66	7.16	6.80	7.48	8.08	8.06	8.05	7.27	6.96	6.97	7.10	7.41
SUMTER	3.72	3.73	3.82	4.02	4.39	5.09	5.22	4.95	4.30	4.05	3.98	3.84	4.26
TALLADEGA	10.98	10.76	11.17	12.13	11.87	12.54	12.85	12.82	11.98	11.89	11.84	11.21	11.84
TALLAPOOSA	0.48	0.48	0.48	0.48	0.49	0.50	0.50	0.50	0.50	0.50	0.49	0.48	0.49
TUSCALOOSA	3.74	3.95	4.03	4.22	4.86	5.52	5.64	5.43	4.92	4.72	4.12	3.91	4.59
WALKER	0.91	0.90	0.89	0.90	0.92	0.97	0.94	0.97	1.78	1.73	1.63	1.42	1.16
WASHINGTON	13.33	12.92	12.20	12.68	12.28	11.68	11.53	12.32	13.33	12.97	12.21	12.57	12.50
WILCOX	1.24	1.21	1.17	1.19	1.23	1.28	1.34	1.23	1.17	1.10	1.01	1.04	1.18
WINSTON	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
TOTAL	**427.94**	**420.83**	**439.14**	**461.70**	**524.80**	**580.86**	**597.08**	**578.18**	**535.03**	**502.77**	**441.87**	**431.41**	**495.64**

Table 7. Monthly total surface-water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
AUTAUGA	44.65	41.96	41.25	39.48	42.67	48.12	53.22	52.31	50.95	46.12	42.94	44.58	45.72
BALDWIN	1.58	4.20	5.73	9.08	14.46	18.19	18.82	20.03	17.55	14.35	7.38	4.43	11.36
BARBOUR	0.84	1.12	1.62	2.30	3.87	5.60	5.81	5.25	3.63	2.96	1.48	1.11	2.98
BIBB	0.07	0.06	0.08	0.16	0.25	0.29	0.30	0.36	0.35	0.29	0.09	0.06	0.20
BLOUNT	53.17	53.39	52.17	52.86	58.52	57.01	54.56	56.33	55.39	57.36	56.32	57.94	55.44
BULLOCK	0.25	0.46	0.65	0.94	1.58	2.26	2.33	2.21	1.59	1.30	0.66	0.46	1.23
BUTLER	0.42	0.39	0.62	0.90	1.60	1.96	2.12	1.94	1.75	1.33	0.70	0.40	1.18
CALHOUN	4.02	4.28	4.41	5.59	7.52	8.77	9.22	9.55	8.49	6.16	3.86	3.22	6.27
CHAMBERS	3.65	3.80	3.94	3.95	4.23	4.82	5.11	5.32	5.38	4.83	4.39	4.43	4.49
CHEROKEE	1.12	2.07	2.42	3.14	4.53	5.86	5.94	6.23	5.23	4.52	2.81	2.09	3.84
CHILTON	1.95	1.87	1.78	1.89	2.11	2.27	2.34	2.51	2.46	2.34	2.06	2.02	2.14
CHOCTAW	43.96	45.45	44.07	43.65	47.04	38.68	51.19	53.95	52.24	48.48	45.68	46.85	46.80
CLARKE	24.58	22.72	22.84	23.13	23.31	23.69	22.74	23.40	22.68	18.40	21.06	22.87	22.62
CLAY	2.02	2.15	2.25	2.25	2.14	2.31	2.21	1.94	1.96	2.03	2.00	2.08	2.11
CLEBURNE	0.65	0.68	0.71	0.73	0.87	1.01	1.04	1.00	0.86	0.78	0.69	0.65	0.81
COFFEE	0.81	1.16	1.86	2.74	4.89	7.40	7.70	6.71	4.27	3.40	1.59	1.13	3.65
COLBERT	1,098.11	1,082.41	911.73	947.95	1,118.10	997.69	1,125.61	1,128.04	1,023.73	987.56	769.97	846.70	1,003.23
CONECUH	0.12	0.11	0.13	0.21	0.30	0.34	0.35	0.41	0.40	0.34	0.14	0.11	0.25
COOSA	0.07	0.07	0.07	0.17	0.17	0.17	0.17	0.14	0.10	0.10	0.10	0.10	0.12
COVINGTON	1.55	1.84	2.44	2.75	4.12	5.27	5.42	5.67	4.66	4.33	3.42	2.38	3.67
CRENSHAW	0.53	0.52	0.67	0.89	1.30	1.88	1.95	1.51	0.86	0.73	0.56	0.53	1.00
CULLMAN	38.73	20.61	15.96	23.03	31.39	31.97	29.38	25.53	25.86	30.01	26.53	22.35	26.83
DALE	0.54	0.46	0.90	1.48	2.82	4.32	4.52	3.82	2.37	1.82	0.59	0.43	2.02
DALLAS	35.97	34.89	35.05	36.30	36.99	39.75	44.44	40.55	38.57	37.22	33.22	36.40	37.47
DEKALB	6.36	6.77	6.88	7.54	9.05	10.98	11.07	12.15	11.10	10.12	7.52	6.55	8.85
ELMORE	10.05	10.32	10.85	12.06	14.57	16.21	16.33	16.01	14.46	12.91	11.13	10.79	12.99
ESCAMBIA	29.24	30.20	31.10	25.13	35.11	36.01	36.15	36.28	36.42	34.71	34.64	35.32	33.39
ETOWAH	117.96	157.03	147.83	116.60	134.06	133.56	116.18	121.43	132.56	124.77	115.29	120.07	127.91
FAYETTE	2.16	2.15	2.10	2.22	2.67	3.04	3.05	2.88	2.47	2.38	2.06	1.91	2.42
FRANKLIN	5.30	6.02	6.23	6.04	6.48	7.45	7.53	7.03	6.35	5.77	5.21	5.52	6.25
GENEVA	0.73	1.26	1.87	2.65	4.52	6.82	7.08	6.07	3.76	3.04	1.73	1.27	3.41
GREENE	367.06	392.63	162.41	397.55	419.15	419.04	420.41	412.13	424.67	424.79	329.82	425.13	382.71
HALE	7.53	7.52	7.54	7.62	7.71	7.75	7.76	7.82	7.81	7.75	7.55	7.52	7.66
HENRY	0.61	1.15	2.19	3.30	6.43	10.38	10.85	8.87	4.89	3.74	1.69	1.09	4.62

Table 7. Monthly total surface-water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
HOUSTON	102.14	95.15	87.84	66.48	98.50	123.93	120.17	116.42	110.02	112.72	100.66	84.99	101.65
JACKSON	468.41	466.07	467.50	502.83	529.63	506.80	507.85	507.48	478.53	21.09	20.41	20.86	374.01
JEFFERSON	27.75	43.14	44.31	43.80	52.39	58.73	59.84	58.69	54.79	46.89	41.48	37.22	47.43
LAMAR	0.11	0.09	0.14	0.23	0.40	0.54	0.56	0.55	0.44	0.35	0.12	0.09	0.30
LAUDERDALE	10.44	10.72	10.71	11.18	12.86	13.89	14.04	13.73	13.53	12.46	10.94	10.01	12.05
LAWRENCE	8.58	8.67	9.06	9.71	12.16	15.55	15.69	13.48	10.51	9.56	8.03	7.96	10.76
LEE	11.54	12.16	12.16	14.11	17.69	19.63	20.74	21.42	19.57	17.17	13.51	11.73	15.97
LIMESTONE	2,903.84	2,904.21	2,439.09	2,630.82	2,814.85	2,953.85	2,962.41	2,956.43	2,911.09	2,859.28	2,999.90	3,053.80	2,865.39
LOWNDES	1.49	3.22	4.12	5.45	8.49	11.80	12.12	11.79	8.81	7.43	4.52	3.23	6.89
MACON	2.74	3.96	4.44	5.13	6.79	8.60	8.90	9.04	7.58	6.72	4.98	3.85	6.07
MADISON	32.03	31.47	30.96	32.21	47.02	58.13	60.51	57.20	53.44	46.42	36.32	30.43	43.08
MARENGO	19.88	19.66	14.08	21.16	20.55	20.19	19.50	20.52	20.48	20.62	20.81	20.09	19.79
MARION	5.87	5.69	5.81	5.47	5.76	6.03	6.10	5.89	5.85	5.56	5.24	5.28	5.71
MARSHALL	20.52	20.77	20.19	20.63	23.09	24.94	25.09	25.50	24.81	22.15	19.74	20.16	22.31
MOBILE	384.14	606.63	831.87	823.69	701.79	811.76	803.65	862.83	976.09	770.74	719.13	732.31	752.37
MONROE	49.61	47.49	48.22	39.28	47.68	51.32	55.53	54.20	49.69	51.73	50.91	49.49	49.63
MONTGOMERY	15.54	15.32	15.82	16.65	20.00	22.52	23.12	21.28	21.85	16.90	14.32	12.83	18.02
MORGAN	99.32	105.24	109.48	113.27	86.32	110.25	150.40	148.24	142.39	126.35	111.51	111.14	117.91
PERRY	2.00	2.00	2.00	2.10	2.10	2.10	2.10	2.07	2.03	2.03	2.03	2.03	2.05
PICKENS	1.27	1.22	1.77	2.37	3.92	5.99	6.26	4.87	2.66	2.15	1.32	1.20	2.93
PIKE	0.49	0.46	0.73	1.06	1.87	2.80	2.92	2.47	1.55	1.23	0.55	0.45	1.39
RANDOLPH	1.43	1.50	1.47	1.61	1.77	1.81	1.84	1.75	1.67	1.63	1.68	1.53	1.64
RUSSELL	31.57	28.34	35.02	36.87	42.55	48.13	49.17	49.59	46.98	44.63	37.58	35.58	40.58
SHELBY	548.88	601.33	503.09	318.08	538.22	646.23	677.54	594.95	494.27	171.47	233.73	274.33	466.22
ST CLAIR	9.88	16.37	11.25	12.73	14.77	16.11	15.84	17.23	15.81	14.60	11.20	11.54	13.92
SUMTER	5.88	5.87	5.89	6.07	6.23	6.27	6.28	6.30	6.26	6.20	5.92	5.89	6.09
TALLADEGA	32.12	29.34	31.26	29.05	42.27	44.73	45.92	45.99	41.49	35.84	35.05	36.26	37.51
TALLAPOOSA	11.76	10.60	11.60	10.75	13.49	14.47	15.08	14.95	13.11	14.33	12.06	11.49	12.83
TUSCALOOSA	31.00	31.88	31.21	33.72	38.93	44.27	44.01	44.81	42.94	39.98	32.10	29.30	37.04
WALKER	533.00	752.48	656.29	625.43	818.91	841.50	845.62	841.86	823.08	653.25	363.39	750.97	708.96
WASHINGTON	48.97	48.88	16.93	47.67	48.93	50.66	52.15	51.62	49.69	28.19	48.98	31.85	43.61
WILCOX	22.32	22.50	20.13	22.28	22.54	21.84	21.53	22.13	21.43	22.85	23.13	22.71	22.11
WINSTON	1.09	1.03	0.99	1.03	1.18	1.30	1.34	1.42	1.28	1.24	0.96	0.77	1.14
TOTAL	**7,351.99**	**7,895.18**	**7,017.80**	**7,299.25**	**8,158.17**	**8,527.49**	**8,746.74**	**8,692.05**	**8,449.53**	**7,100.52**	**6,537.06**	**7,149.83**	**7,743.00**

Table 8. Monthly total water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
AUTAUGA	53.14	50.46	49.98	48.91	54.22	61.27	66.67	65.62	63.04	57.27	52.30	53.62	56.43
BALDWIN	44.90	54.44	60.29	71.57	95.30	114.25	118.38	119.47	110.76	100.18	69.92	57.02	84.88
BARBOUR	6.40	6.43	7.09	8.12	10.34	12.95	13.30	12.04	9.54	8.79	6.93	6.38	9.04
BIBB	5.18	5.28	5.12	5.35	5.74	6.10	6.09	6.03	5.95	5.86	5.43	5.23	5.61
BLOUNT	57.70	57.77	56.80	57.43	62.90	61.89	59.56	60.71	59.63	61.64	60.47	62.10	59.90
BULLOCK	2.87	3.05	3.33	3.80	4.90	6.29	6.62	6.12	4.81	4.36	3.39	3.03	4.39
BUTLER	3.39	3.09	3.55	3.63	4.81	4.95	5.19	4.99	4.66	4.13	3.42	3.00	4.07
CALHOUN	27.80	28.69	27.76	28.18	32.39	34.90	35.96	36.47	33.12	29.71	26.79	25.26	30.60
CHAMBERS	4.23	4.38	4.54	4.57	4.88	5.52	5.83	6.01	6.01	5.45	4.98	5.02	5.12
CHEROKEE	4.67	5.36	5.72	6.48	8.06	9.72	10.01	10.07	8.91	8.04	6.34	5.68	7.43
CHILTON	5.72	5.52	5.47	5.26	6.08	6.85	6.83	6.73	6.74	6.52	5.84	5.53	6.09
CHOCTAW	45.85	47.11	45.68	45.24	48.77	40.30	52.85	55.63	53.81	50.05	47.30	48.47	48.45
CLARKE	28.52	26.53	26.63	27.21	27.13	27.64	26.76	27.20	26.55	22.23	24.77	26.50	26.47
CLAY	2.51	2.64	2.74	2.74	2.63	2.79	2.69	2.42	2.44	2.52	2.49	2.57	2.60
CLEBURNE	1.74	1.77	1.80	1.83	1.96	2.10	2.14	2.10	1.96	1.88	1.78	1.74	1.90
COFFEE	8.67	8.87	10.04	11.94	15.92	20.07	20.22	18.63	15.20	13.18	10.27	9.40	13.56
COLBERT	1,099.41	1,083.61	913.15	949.56	1,120.46	1,001.02	1,129.06	1,130.72	1,025.40	989.01	771.11	847.83	1,005.13
CONECUH	1.51	1.47	1.50	2.64	2.90	2.04	2.03	2.01	1.91	1.65	1.49	1.50	1.89
COOSA	0.71	0.69	0.65	0.85	0.79	0.80	0.79	0.78	0.71	0.72	0.72	0.69	0.74
COVINGTON	6.67	7.64	8.26	8.89	11.30	13.18	13.48	13.44	11.78	11.01	9.26	8.08	10.26
CRENSHAW	2.92	2.66	2.79	2.98	3.71	4.37	4.47	4.22	3.42	3.22	2.88	2.91	3.39
CULLMAN	40.64	22.49	17.91	25.89	34.43	34.81	31.74	27.33	27.63	32.80	29.16	24.51	29.16
DALE	6.96	6.85	6.98	8.46	11.14	12.78	13.47	12.19	9.91	7.66	5.80	7.33	9.14
DALLAS	51.29	50.19	50.68	51.94	52.72	56.10	61.04	57.17	55.03	53.51	48.22	52.09	53.36
DEKALB	9.90	10.29	10.43	11.14	12.82	14.93	14.95	16.01	14.99	14.01	11.21	10.10	12.58
ELMORE	14.98	14.95	16.41	17.65	21.30	22.84	22.99	22.38	20.19	18.13	16.07	15.76	18.66
ESCAMBIA	37.74	38.48	39.36	33.98	44.60	46.78	46.42	46.59	46.08	43.72	43.18	43.73	42.59
ETOWAH	122.59	161.76	152.53	121.28	139.04	138.83	121.53	126.57	137.44	129.48	119.69	124.35	132.73
FAYETTE	2.79	2.77	2.73	2.85	3.30	3.67	3.67	3.50	3.08	3.00	2.68	2.53	3.05
FRANKLIN	7.34	8.06	8.24	8.10	8.57	9.56	9.68	9.15	8.39	7.75	7.14	7.52	8.29
GENEVA	4.29	5.13	6.01	7.43	10.82	15.14	15.55	13.62	9.53	8.20	5.74	4.92	8.89
GREENE	372.99	398.51	168.27	403.66	425.38	425.43	427.02	418.59	430.95	430.94	335.84	431.15	388.87
HALE	20.10	20.15	20.43	20.58	21.52	22.81	22.95	22.40	21.07	20.67	20.21	20.12	21.09
HENRY	2.87	3.65	5.05	6.56	11.01	16.17	16.82	13.99	8.52	6.98	4.28	3.52	8.32

Table 8. Monthly total water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
HOUSTON	120.64	114.32	111.12	90.95	126.82	158.29	156.42	148.10	136.52	135.45	120.26	107.26	127.29
JACKSON	470.25	467.90	469.28	504.65	531.57	508.81	509.87	509.52	480.57	23.11	22.29	22.75	375.94
JEFFERSON	38.01	52.20	53.24	53.08	63.87	68.74	70.26	69.41	63.91	56.37	49.78	48.45	57.30
LAMAR	2.06	1.95	1.94	1.94	2.20	2.40	2.43	2.39	2.19	2.09	1.98	2.38	2.16
LAUDERDALE	13.80	14.24	14.27	14.78	16.69	18.06	18.24	17.89	17.49	16.22	14.51	13.51	15.82
LAWRENCE	9.32	9.41	9.81	10.46	12.92	16.33	16.47	14.26	11.29	10.34	8.79	8.70	11.52
LEE	15.26	15.89	15.87	17.82	21.78	23.88	25.16	25.75	23.71	21.15	17.11	14.93	19.88
LIMESTONE	2,910.53	2,910.06	2,445.47	2,638.15	2,823.51	2,963.36	2,972.00	2,965.61	2,918.86	2,866.50	3,006.41	3,059.50	2,872.94
LOWNDES	7.69	9.13	10.18	11.69	14.86	18.32	18.65	18.34	15.27	13.70	10.96	9.40	13.21
MACON	7.73	7.03	7.81	8.90	11.07	13.79	15.20	15.53	14.25	13.11	9.29	8.96	11.08
MADISON	61.05	61.98	61.26	63.00	84.99	102.62	109.10	98.80	89.39	78.45	64.58	58.87	77.95
MARENGO	23.98	23.72	18.22	25.32	24.89	24.73	24.14	25.14	24.85	24.97	24.88	24.14	24.08
MARION	7.35	7.19	7.46	7.03	7.39	7.85	7.93	7.63	7.41	7.09	6.73	6.75	7.32
MARSHALL	25.19	25.52	24.83	25.50	28.57	30.53	30.95	31.18	30.33	27.07	24.86	25.03	27.48
MOBILE	410.51	633.26	860.24	853.18	734.96	848.87	840.55	899.96	1011.40	804.15	747.89	759.47	784.05
MONROE	52.75	51.01	51.46	42.50	51.30	55.62	59.94	58.14	53.06	55.00	53.84	52.53	53.13
MONTGOMERY	38.82	29.13	35.47	37.44	41.25	45.36	45.96	45.93	45.98	38.70	32.25	30.08	38.93
MORGAN	100.04	105.99	110.24	114.05	87.13	111.11	151.26	149.12	143.26	127.20	112.30	111.89	118.72
PERRY	7.63	6.53	6.66	6.72	7.44	7.98	8.56	8.46	7.70	7.74	6.92	6.59	7.42
PICKENS	5.05	4.81	6.05	6.10	7.82	10.09	11.27	9.49	7.27	6.62	5.49	5.24	7.13
PIKE	5.36	5.06	5.37	5.95	7.90	9.71	10.14	9.58	7.47	6.56	5.23	4.84	6.94
RANDOLPH	2.30	2.37	2.34	2.49	2.66	2.72	2.76	2.65	2.56	2.51	2.55	2.40	2.53
RUSSELL	36.36	32.22	38.81	40.65	46.43	52.15	53.18	53.49	50.91	48.36	41.29	39.32	44.51
SHELBY	560.92	613.18	514.57	330.18	551.74	660.75	692.18	609.77	508.82	185.53	246.01	286.12	479.36
ST CLAIR	17.21	24.03	18.40	19.53	22.25	24.19	23.90	25.27	23.08	21.56	18.16	18.64	21.33
SUMTER	9.60	9.60	9.71	10.09	10.62	11.36	11.49	11.25	10.56	10.24	9.90	9.73	10.35
TALLADEGA	43.10	40.10	42.43	41.18	54.13	57.26	58.77	58.82	53.47	47.73	46.89	47.47	49.35
TALLAPOOSA	12.24	11.08	12.09	11.23	13.97	14.96	15.58	15.45	13.60	14.83	12.55	11.97	13.32
TUSCALOOSA	34.73	35.83	35.24	37.94	43.79	49.79	49.64	50.24	47.85	44.70	36.22	33.22	41.63
WALKER	533.91	753.38	657.18	626.33	819.83	842.47	846.56	842.83	824.86	654.98	365.02	752.39	710.12
WASHINGTON	62.30	61.80	29.13	60.35	61.21	62.35	63.67	63.94	63.03	41.17	61.19	44.42	56.11
WILCOX	23.55	23.71	21.30	23.47	23.78	23.11	22.87	23.36	22.60	23.95	24.14	23.75	23.30
WINSTON	1.70	1.63	1.60	1.64	1.78	1.90	1.95	2.03	1.89	1.84	1.57	1.37	1.74
TOTAL	**7,779.93**	**8,316.01**	**7,456.94**	**7,760.95**	**8,682.97**	**9,108.34**	**9,343.81**	**9,270.23**	**8,984.56**	**7,603.29**	**6,978.93**	**7,581.24**	**8,238.64**

Table 9. Total withdrawals by source and hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Population	Withdrawals by source, in million gallons per day		
		Groundwater	Surface water	Total
Apalachicola				
03130002	57,592	0.74	8.64	9.38
03130003	116,236	8.70	43.38	52.08
03130004	34,501	14.49	102.64	117.13
03130012	33,345	4.78	0.92	5.70
Subtotal	*241,674*	*28.71*	*155.58*	*184.29*
Chocawhatchee-Escambia				
03140103	20,986	2.47	1.27	3.74
03140104	1,735	0.46	0.17	0.63
03140106	37,994	20.42	2.58	23.00
03140107	30,552	12.32	1.92	14.24
03140201	155,888	26.96	7.99	34.95
03140202	51,124	10.66	5.03	15.69
03140203	7,260	1.35	0.76	2.11
03140301	28,478	7.51	3.09	10.60
03140302	12,834	2.76	1.03	3.79
03140303	25,424	3.37	1.56	4.93
03140304	25,098	6.44	33.24	39.68
03140305	18,377	2.94	0.28	3.22
Subtotal	*415,751*	*97.68*	*58.91*	*156.59*
Alabama				0.00
03150105	43,046	4.28	5.60	9.88
03150106	355,811	42.73	186.13	228.86
03150107	146,896	10.48	477.00	487.48
03150108	21,258	1.23	1.28	2.51
03150109	60,010	1.58	19.08	20.65
03150110	188,636	11.69	36.09	47.78
03150201	322,720	49.48	86.85	136.33
03150202	442,529	28.98	58.54	87.52
03150203	27,162	10.17	28.43	38.60
03150204	25,459	8.83	50.42	59.25
Subtotal	*1,633,526*	*169.43*	*949.43*	*1,118.86*
Mobile-Tombigbee				
03160101	2,698	0.17	0.13	0.29

Table 9. Total withdrawals by source and hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Population	Withdrawals by source, in million gallons per day		
		Groundwater	Surface water	Total
03160103	23,219	1.24	2.40	3.63
03160105	20,222	2.10	2.24	4.34
03160106	23,447	5.72	3.23	8.95
03160107	22,212	2.53	2.25	4.78
03160108	1,217	3.16	3.03	6.19
03160109	124,602	2.94	717.74	720.68
03160110	53,091	1.20	13.61	14.81
03160111	309,650	6.01	38.04	44.05
03160112	268,796	2.69	51.01	53.70
03160113	120,588	20.09	389.46	409.55
03160201	33,975	5.72	69.80	75.52
03160202	6,329	1.59	1.90	3.49
03160203	31,676	13.82	66.01	79.83
03160204	180,518	26.73	699.97	726.69
03160205	260,675	31.05	4.77	35.82
Subtotal	*1,482,915*	*126.76*	*2,065.58*	*2,192.34*
Pascagoula				
03170002	1,014	0.15	0.00	0.16
03170003	6	0.00	0.00	0.00
03170008	73,337	8.90	53.53	62.43
03170009	12,711	3.45	0.26	3.71
Subtotal	*87,068*	*12.51*	*53.79*	*66.30*
Middle Tennessee-Hiwassee				
06020001	2,747	0.48	0.15	0.63
Subtotal	*2,747*	*0.48*	*0.15*	*0.63*
Middle Tennessee-Elk				
06030001	148,391	7.58	397.76	405.34
06030002	591,583	44.12	3,024.39	3,068.51
06030003	4	0.00	0.00	0.00
06030004	17,171	1.31	10.02	11.33
06030005	157,076	4.71	1,018.26	1,022.97
06030006	31,851	2.35	9.13	11.48
Subtotal	*946,075*	*60.07*	*4,459.56*	*4,519.63*
Total	**4,809,757**	**495.64**	**7,743.00**	**8,238.64**

Table 10. Monthly total groundwater withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.67	0.68	0.69	0.71	0.76	0.83	0.84	0.82	0.76	0.74	0.70	0.68	0.74
03130003	8.99	7.99	8.06	8.32	9.15	9.92	10.03	9.32	8.70	8.32	7.76	7.76	8.70
03130004	9.85	10.45	13.07	13.07	15.17	19.10	20.33	18.44	15.30	13.54	11.33	13.85	14.49
03130012	2.89	2.98	3.76	4.10	6.10	8.68	8.83	7.21	4.75	3.65	2.25	2.02	4.78
Subtotal	*22.40*	*22.09*	*25.58*	*26.21*	*31.18*	*38.54*	*40.04*	*35.79*	*29.51*	*26.26*	*22.04*	*24.31*	*28.71*
Chocawhatchee-Escambia													
03140103	1.90	1.98	2.07	2.21	2.58	2.97	3.14	3.01	2.73	2.56	2.28	2.19	2.47
03140104	0.36	0.37	0.39	0.40	0.49	0.61	0.60	0.56	0.51	0.47	0.41	0.40	0.46
03140106	12.56	13.79	15.44	17.26	21.57	25.91	26.87	28.01	26.18	24.49	17.63	14.89	20.42
03140107	7.09	8.39	9.64	10.19	13.85	16.89	17.93	16.69	14.85	13.68	9.98	8.39	12.32
03140201	21.84	21.96	22.80	26.51	31.10	34.03	35.23	31.86	28.38	24.05	22.13	23.30	26.96
03140202	8.76	8.68	9.27	9.50	11.64	13.81	13.47	13.00	11.14	10.56	9.05	8.91	10.66
03140203	0.86	0.89	1.05	1.20	1.54	2.06	2.09	1.88	1.48	1.23	0.98	0.93	1.35
03140301	6.42	6.98	6.77	7.01	7.83	8.58	9.37	9.06	7.78	7.36	6.65	6.30	7.51
03140302	2.57	2.31	2.35	2.47	2.80	3.17	3.26	3.15	3.07	2.86	2.58	2.50	2.76
03140303	3.37	3.12	3.36	3.19	3.74	3.57	3.65	3.60	3.40	3.27	3.13	2.99	3.37
03140304	5.77	5.71	5.65	7.25	7.66	7.31	7.15	6.96	6.49	6.01	5.62	5.63	6.44
03140305	2.64	2.96	2.66	2.63	2.85	3.46	3.10	3.22	3.17	2.84	3.00	2.78	2.94
Subtotal	*74.14*	*77.13*	*81.45*	*89.81*	*107.65*	*122.36*	*125.85*	*120.99*	*109.17*	*99.37*	*83.44*	*79.22*	*97.68*
Alabama													
03150105	4.18	3.94	3.96	4.01	4.22	4.57	4.79	4.57	4.39	4.22	4.20	4.24	4.28
03150106	41.35	42.10	40.99	39.89	43.42	45.88	46.90	46.92	43.27	41.80	40.77	39.35	42.73
03150107	9.46	9.61	9.78	10.96	10.78	11.56	11.72	11.43	10.60	10.43	9.91	9.53	10.48
03150108	1.22	1.22	1.22	1.22	1.23	1.24	1.24	1.24	1.23	1.23	1.22	1.22	1.23
03150109	1.50	1.50	1.52	1.55	1.61	1.70	1.71	1.66	1.58	1.56	1.52	1.50	1.58
03150110	10.77	8.89	9.39	9.99	11.36	13.07	14.43	14.33	13.83	13.20	10.26	10.50	11.69
03150201	49.40	39.08	46.34	48.06	51.40	54.38	54.69	56.26	54.50	50.63	44.32	43.77	49.48
03150202	29.04	26.41	25.76	26.38	30.64	31.37	32.02	31.67	29.74	29.78	26.62	27.97	28.98
03150203	10.03	9.92	9.95	9.91	10.31	10.58	10.67	10.72	10.41	10.18	9.69	9.59	10.17
03150204	5.85	6.51	7.01	7.61	9.30	11.46	11.81	11.65	10.59	9.93	7.46	6.60	8.83
Subtotal	*162.80*	*149.17*	*155.94*	*159.57*	*174.28*	*185.80*	*189.98*	*190.44*	*180.15*	*172.97*	*155.96*	*154.28*	*169.43*
Mobile-Tombigbee													
03160101	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.16	0.16	0.16	0.16	0.17

Table 10. Monthly total groundwater withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	1.17	1.15	1.33	1.20	1.30	1.39	1.44	1.32	1.21	1.15	1.11	1.07	1.24
03160105	2.17	2.11	2.01	1.93	1.97	2.07	2.06	2.09	1.99	1.99	2.14	2.59	2.10
03160106	5.02	4.88	5.59	5.18	5.45	5.83	6.83	6.41	6.15	5.95	5.74	5.51	5.72
03160107	2.11	2.19	2.16	2.20	2.36	2.55	2.54	2.52	3.19	3.09	2.88	2.61	2.53
03160108	3.00	2.98	3.03	3.06	3.22	3.41	3.43	3.37	3.19	3.13	3.16	2.93	3.16
03160109	2.75	2.72	2.78	3.66	3.55	3.34	2.84	2.29	2.27	3.29	3.15	2.69	2.94
03160110	1.12	1.13	1.15	1.17	1.23	1.31	1.32	1.29	1.22	1.20	1.15	1.13	1.20
03160111	5.70	5.59	5.71	5.72	6.02	6.27	6.60	6.33	5.87	6.02	5.80	6.43	6.01
03160112	2.04	2.28	2.31	2.53	2.86	3.31	3.34	3.32	2.99	2.80	2.19	2.22	2.69
03160113	18.77	18.95	19.11	19.38	20.61	22.15	22.53	21.88	20.18	19.74	18.88	18.79	20.09
03160201	5.75	5.33	5.47	5.48	5.91	6.19	6.26	6.05	5.63	5.50	5.45	5.59	5.72
03160202	1.47	1.40	1.45	1.59	1.65	1.91	2.01	1.85	1.55	1.43	1.34	1.41	1.59
03160203	14.73	14.37	13.51	14.22	13.45	13.03	12.95	13.56	14.66	14.26	13.48	13.71	13.82
03160204	19.58	21.65	22.41	24.12	28.19	32.12	32.47	33.07	31.59	29.37	23.84	21.95	26.73
03160205	20.93	22.60	23.83	27.61	34.69	39.60	39.95	39.50	37.62	34.82	27.19	23.75	31.05
Subtotal	*106.46*	*109.50*	*112.00*	*119.23*	*132.65*	*144.67*	*146.75*	*145.03*	*139.48*	*133.92*	*117.65*	*112.56*	*126.76*
Pascagoula													
03170002	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	7.57	7.34	7.93	8.32	9.52	10.17	10.35	10.38	10.07	9.49	8.04	7.54	8.90
03170009	2.40	2.55	2.78	3.07	3.64	4.43	4.61	4.41	4.08	3.80	2.93	2.66	3.45
Subtotal	*10.12*	*10.05*	*10.87*	*11.55*	*13.32*	*14.76*	*15.11*	*14.94*	*14.31*	*13.45*	*11.13*	*10.36*	*12.51*
Middle Tennessee-Hiwassee													
06020001	0.45	0.47	0.47	0.47	0.49	0.50	0.51	0.52	0.53	0.47	0.45	0.44	0.48
Subtotal	*0.45*	*0.47*	*0.47*	*0.47*	*0.49*	*0.50*	*0.51*	*0.52*	*0.53*	*0.47*	*0.45*	*0.44*	*0.48*
Middle Tennessee-Elk													
06030001	7.07	7.13	6.96	7.20	7.92	8.08	8.30	8.13	7.95	7.40	7.52	7.29	7.58
06030002	37.61	38.29	38.53	39.89	48.21	55.35	59.49	52.27	45.51	41.05	36.64	36.05	44.12
06030003	0.00	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	0.80	0.88	0.99	1.12	1.48	1.93	2.00	1.83	1.47	1.34	1.01	0.89	1.31
06030005	3.99	4.03	4.21	4.39	5.10	6.01	6.10	5.54	4.68	4.39	4.03	3.96	4.71
06030006	2.11	2.10	2.16	2.26	2.53	2.86	2.95	2.69	2.27	2.15	2.00	2.05	2.35
Subtotal	*51.58*	*52.42*	*52.84*	*54.86*	*65.24*	*74.24*	*78.84*	*70.47*	*61.88*	*56.34*	*51.20*	*50.25*	*60.07*
Total	**427.94**	**420.83**	**439.14**	**461.70**	**524.80**	**580.86**	**597.08**	**578.18**	**535.03**	**502.77**	**441.87**	**431.41**	**495.64**

Table 11. Monthly surface-water total withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	7.34	7.35	7.58	8.25	8.64	8.84	10.01	9.69	10.50	9.44	8.59	7.37	8.64
03130003	32.22	29.28	36.43	39.01	46.20	53.34	54.58	54.68	50.65	47.61	38.92	36.51	43.38
03130004	102.09	95.49	88.36	67.19	99.80	126.46	122.73	118.47	110.68	113.31	100.98	85.30	102.64
03130012	0.21	0.17	0.38	0.66	1.30	2.00	2.09	1.79	1.11	0.85	0.24	0.16	0.92
Subtotal	*141.86*	*132.29*	*132.75*	*115.12*	*155.94*	*190.64*	*189.40*	*184.63*	*172.94*	*171.21*	*148.74*	*129.34*	*155.58*
Chocawhatchee-Escambia													
03140103	0.30	0.58	0.71	1.08	1.57	2.02	2.06	2.13	1.76	1.49	0.84	0.61	1.27
03140104	0.04	0.09	0.10	0.14	0.20	0.27	0.28	0.28	0.23	0.19	0.12	0.09	0.17
03140106	0.27	1.10	1.37	2.09	3.14	3.98	4.04	4.56	3.97	3.36	1.79	1.15	2.58
03140107	0.34	0.69	0.97	1.60	2.52	3.13	3.27	3.27	2.82	2.28	1.25	0.76	1.92
03140201	1.80	2.29	3.94	5.97	10.94	16.46	17.25	14.64	9.30	7.23	3.35	2.26	7.99
03140202	1.22	1.81	2.73	3.81	6.64	10.04	10.44	9.00	5.65	4.54	2.40	1.77	5.03
03140203	0.16	0.28	0.42	0.57	1.00	1.53	1.59	1.36	0.84	0.67	0.38	0.27	0.76
03140301	1.60	1.42	2.05	2.19	3.54	4.80	4.99	4.79	3.60	3.35	2.69	1.91	3.09
03140302	0.53	0.56	0.70	0.92	1.32	1.85	1.91	1.55	0.97	0.83	0.63	0.58	1.03
03140303	0.50	0.57	0.85	1.20	2.07	2.61	2.79	2.59	2.23	1.74	0.95	0.58	1.56
03140304	29.24	30.15	31.03	25.03	34.92	35.72	35.84	36.00	36.23	34.57	34.57	35.28	33.24
03140305	0.08	0.09	0.13	0.22	0.36	0.45	0.46	0.51	0.45	0.37	0.13	0.09	0.28
Subtotal	*36.06*	*39.63*	*45.00*	*44.83*	*68.22*	*82.86*	*84.93*	*80.70*	*68.06*	*60.64*	*49.10*	*45.34*	*58.91*
Alabama													
03150105	2.34	3.36	3.79	4.84	6.50	7.98	8.11	8.57	7.42	6.54	4.22	3.43	5.60
03150106	166.93	209.95	197.16	165.12	198.16	201.01	185.11	192.57	197.26	181.43	167.20	173.55	186.13
03150107	557.49	609.75	511.69	327.83	550.10	660.08	691.63	608.69	506.32	182.13	242.76	282.86	477.00
03150108	1.12	1.19	1.16	1.19	1.41	1.49	1.51	1.48	1.34	1.26	1.15	1.08	1.28
03150109	16.94	15.98	17.46	17.00	20.24	21.40	22.01	21.53	19.71	20.42	18.10	17.80	19.08
03150110	26.76	28.60	29.18	31.70	40.01	46.63	47.61	47.11	43.59	36.24	29.22	25.90	36.09
03150201	80.05	77.18	77.46	78.33	84.89	95.53	105.70	100.54	95.09	87.51	77.64	81.37	86.85
03150202	52.79	52.88	53.03	55.49	63.32	62.85	61.23	63.51	62.27	62.66	57.37	54.71	58.54
03150203	26.06	26.96	25.08	27.88	29.71	30.81	30.69	30.86	28.47	29.21	28.15	27.17	28.43
03150204	49.67	47.87	48.68	39.91	48.62	52.53	56.76	55.58	50.88	52.74	51.50	49.87	50.42
Subtotal	*980.16*	*1,073.70*	*964.69*	*749.28*	*1,042.96*	*1,180.32*	*1,210.37*	*1,130.43*	*1,012.34*	*660.15*	*677.32*	*717.74*	*949.43*
Mobile-Tombigbee													
03160101	0.08	0.08	0.10	0.11	0.15	0.20	0.21	0.18	0.13	0.11	0.09	0.08	0.13

Table 11. Monthly surface-water total withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	2.42	2.31	2.66	2.33	2.43	2.45	2.57	2.45	2.47	2.37	2.18	2.11	2.40
03160105	2.01	1.97	1.94	2.08	2.49	2.79	2.82	2.69	2.31	2.18	1.89	1.72	2.24
03160106	1.87	1.83	2.27	2.78	4.04	5.70	5.91	4.81	3.04	2.62	1.92	1.82	3.23
03160107	1.40	1.57	1.74	2.00	2.56	3.14	3.21	3.11	2.58	2.33	1.75	1.57	2.25
03160108	2.99	2.99	3.00	3.01	3.05	3.10	3.11	3.07	3.02	3.01	2.99	2.99	3.03
03160109	515.15	750.91	655.07	633.83	834.26	855.04	856.47	853.76	839.96	667.97	380.12	768.27	717.74
03160110	24.73	7.66	3.98	10.84	18.57	18.10	15.40	11.65	12.19	16.23	13.21	10.19	13.61
03160111	46.81	45.62	44.38	35.14	34.04	43.78	47.22	44.44	36.31	30.65	24.96	23.53	38.04
03160112	46.53	46.43	45.75	46.29	53.53	58.17	57.40	57.99	55.69	53.94	46.72	43.38	51.01
03160113	372.70	398.63	168.44	404.19	426.53	426.81	428.49	420.48	431.76	431.53	335.56	430.57	389.46
03160201	66.93	68.19	61.26	67.98	70.86	62.18	74.00	77.85	76.09	72.41	69.59	70.01	69.80
03160202	1.69	1.68	1.70	1.88	2.04	2.08	2.09	2.11	2.07	2.01	1.73	1.70	1.90
03160203	73.45	71.51	39.66	70.62	71.98	74.06	74.59	74.66	72.01	46.29	69.93	54.63	66.01
03160204	332.86	559.10	782.51	771.86	646.29	753.83	754.52	806.27	921.93	717.75	666.87	682.32	699.97
03160205	0.85	1.48	2.26	3.74	6.29	7.89	8.29	8.44	7.44	5.91	2.81	1.58	4.77
Subtotal	*1,492.45*	*1,961.97*	*1,816.71*	*2,058.67*	*2,179.12*	*2,319.34*	*2,336.31*	*2,373.97*	*2,468.99*	*2,057.30*	*1,622.30*	*2,096.48*	*2,065.58*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	51.32	48.08	50.00	52.73	56.81	59.56	50.77	58.54	55.97	54.54	53.16	50.55	53.53
03170009	0.07	0.06	0.10	0.19	0.34	0.45	0.46	0.48	0.41	0.33	0.09	0.06	0.26
Subtotal	*51.39*	*48.14*	*50.11*	*52.93*	*57.15*	*60.01*	*51.23*	*59.03*	*56.38*	*54.87*	*53.26*	*50.62*	*53.79*
Middle Tennessee-Hiwassee													
06020001	0.07	0.11	0.12	0.14	0.17	0.20	0.20	0.22	0.20	0.18	0.14	0.11	0.15
Subtotal	*0.07*	*0.11*	*0.12*	*0.14*	*0.17*	*0.20*	*0.20*	*0.22*	*0.20*	*0.18*	*0.14*	*0.11*	*0.15*
Middle Tennessee-Elk													
06030001	489.19	487.50	488.34	524.14	553.75	534.29	535.14	535.57	505.85	45.31	41.45	41.72	397.76
06030002	3,034.40	3,039.95	2,578.41	2,775.19	2,946.09	3,118.55	3,169.34	3,158.86	3,104.96	3,030.31	3,145.90	3,193.73	3,024.39
06030003	0.00	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	7.34	7.60	7.91	8.49	10.85	14.13	14.62	12.83	10.34	9.61	8.33	7.99	10.02
06030005	1,110.86	1,095.44	924.85	961.82	1,134.53	1,016.30	1,144.29	1,145.61	1,040.21	1,002.49	782.81	858.62	1,018.26
06030006	8.20	8.84	8.91	8.65	9.40	10.84	10.91	10.21	9.24	8.44	7.72	8.16	9.13
Subtotal	*4,649.99*	*4,639.32*	*4,008.43*	*4,278.29*	*4,654.62*	*4,694.12*	*4,874.30*	*4,863.08*	*4,670.61*	*4,096.17*	*3,986.21*	*4,110.21*	*4,459.56*
Total	**7,351.99**	**7,895.18**	**7,017.80**	**7,299.25**	**8,158.17**	**8,527.49**	**8,746.74**	**8,692.05**	**8,449.53**	**7,100.52**	**6,537.06**	**7,149.83**	**7,743.00**

Table 12. Monthly total withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	8.01	8.02	8.27	8.97	9.40	9.67	10.85	10.51	11.27	10.18	9.29	8.05	9.38
03130003	41.21	37.27	44.49	47.33	55.35	63.27	64.61	64.00	59.35	55.93	46.68	44.27	52.08
03130004	111.94	105.94	101.43	80.27	114.97	145.56	143.06	136.92	125.97	126.85	112.31	99.15	117.13
03130012	3.10	3.15	4.14	4.76	7.39	10.68	10.91	8.99	5.87	4.50	2.50	2.18	5.70
Subtotal	*164.25*	*154.38*	*158.32*	*141.33*	*187.12*	*229.18*	*229.44*	*220.42*	*202.45*	*197.47*	*170.77*	*153.65*	*184.29*
Chocawhatchee-Escambia													
03140103	2.20	2.56	2.78	3.30	4.15	4.98	5.20	5.14	4.49	4.05	3.12	2.80	3.74
03140104	0.39	0.45	0.49	0.53	0.69	0.88	0.87	0.85	0.73	0.67	0.53	0.49	0.63
03140106	12.83	14.89	16.81	19.35	24.72	29.90	30.91	32.57	30.15	27.85	19.42	16.04	23.00
03140107	7.44	9.08	10.61	11.79	16.37	20.02	21.20	19.96	17.67	15.96	11.23	9.15	14.24
03140201	23.64	24.25	26.74	32.48	42.04	50.50	52.48	46.50	37.68	31.28	25.48	25.56	34.95
03140202	9.98	10.49	12.00	13.31	18.27	23.85	23.91	22.00	16.79	15.10	11.46	10.68	15.69
03140203	1.02	1.16	1.46	1.77	2.53	3.58	3.67	3.24	2.32	1.91	1.35	1.20	2.11
03140301	8.02	8.41	8.82	9.20	11.36	13.38	14.36	13.85	11.38	10.71	9.35	8.22	10.60
03140302	3.10	2.87	3.05	3.39	4.12	5.01	5.17	4.71	4.04	3.69	3.21	3.08	3.79
03140303	3.87	3.69	4.22	4.39	5.81	6.18	6.45	6.19	5.64	5.01	4.08	3.57	4.93
03140304	35.01	35.87	36.69	32.28	42.58	43.03	42.99	42.96	42.72	40.57	40.19	40.91	39.68
03140305	2.72	3.05	2.79	2.85	3.21	3.91	3.57	3.73	3.62	3.22	3.13	2.86	3.22
Subtotal	*110.21*	*116.76*	*126.45*	*134.64*	*175.86*	*205.22*	*210.78*	*201.69*	*177.23*	*160.01*	*132.54*	*124.56*	*156.59*
Alabama													
03150105	6.52	7.29	7.75	8.85	10.72	12.55	12.90	13.14	11.81	10.76	8.42	7.67	9.88
03150106	208.28	252.05	238.15	205.01	241.57	246.90	232.02	239.48	240.53	223.23	207.98	212.90	228.86
03150107	566.95	619.36	521.48	338.78	560.88	671.63	703.35	620.11	516.92	192.55	252.68	292.39	487.48
03150108	2.34	2.40	2.38	2.41	2.64	2.73	2.75	2.71	2.57	2.49	2.37	2.30	2.51
03150109	18.44	17.48	18.98	18.55	21.85	23.10	23.72	23.19	21.29	21.98	19.62	19.31	20.65
03150110	37.53	37.49	38.58	41.69	51.38	59.70	62.04	61.44	57.43	49.44	39.48	36.40	47.78
03150201	129.45	116.26	123.80	126.39	136.29	149.91	160.39	156.80	149.59	138.15	121.96	125.14	136.33
03150202	81.84	79.28	78.79	81.87	93.97	94.21	93.26	95.18	92.01	92.44	83.99	82.67	87.52
03150203	36.10	36.88	35.03	37.78	40.03	41.39	41.36	41.59	38.88	39.40	37.84	36.77	38.60
03150204	55.52	54.37	55.69	47.52	57.92	64.00	68.57	67.23	61.46	62.67	58.96	56.47	59.25
Subtotal	*1,142.96*	*1,222.88*	*1,120.62*	*908.85*	*1,217.23*	*1,366.12*	*1,400.35*	*1,320.87*	*1,192.49*	*833.12*	*833.28*	*872.02*	*1,118.86*
Mobile-Tombigbee													
03160101	0.24	0.24	0.26	0.27	0.32	0.39	0.39	0.36	0.29	0.28	0.25	0.24	0.29

Table 12. Monthly total withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	3.58	3.47	3.98	3.53	3.73	3.84	4.01	3.77	3.68	3.52	3.29	3.18	3.63
03160105	4.18	4.08	3.95	4.01	4.46	4.87	4.89	4.78	4.30	4.17	4.02	4.32	4.34
03160106	6.89	6.71	7.85	7.96	9.49	11.53	12.74	11.22	9.19	8.57	7.66	7.33	8.95
03160107	3.51	3.77	3.90	4.20	4.91	5.69	5.74	5.63	5.77	5.42	4.63	4.19	4.78
03160108	5.99	5.97	6.04	6.08	6.27	6.52	6.54	6.44	6.21	6.14	6.15	5.92	6.19
03160109	517.90	753.62	657.85	637.49	837.81	858.38	859.32	856.05	842.23	671.27	383.27	770.96	720.68
03160110	25.85	8.79	5.13	12.01	19.80	19.42	16.73	12.94	13.41	17.44	14.36	11.32	14.81
03160111	52.51	51.21	50.09	40.86	40.07	50.05	53.82	50.77	42.17	36.66	30.75	29.96	44.05
03160112	48.57	48.71	48.06	48.82	56.39	61.48	60.74	61.31	58.68	56.75	48.91	45.60	53.70
03160113	391.47	417.58	187.55	423.58	447.14	448.96	451.02	442.36	451.95	451.27	354.44	449.36	409.55
03160201	72.68	73.52	66.73	73.47	76.77	68.37	80.25	83.89	81.72	77.91	75.03	75.60	75.52
03160202	3.16	3.08	3.15	3.47	3.69	3.99	4.10	3.97	3.62	3.44	3.07	3.11	3.49
03160203	88.17	85.88	53.17	84.84	85.44	87.09	87.54	88.22	86.67	60.55	83.41	68.34	79.83
03160204	352.44	580.74	804.92	795.98	674.48	785.95	786.99	839.34	953.52	747.12	690.71	704.27	726.69
03160205	21.77	24.09	26.08	31.34	40.99	47.49	48.23	47.94	45.05	40.72	30.00	25.33	35.82
Subtotal	*1,598.91*	*2,071.48*	*1,928.71*	*2,177.90*	*2,311.76*	*2,464.00*	*2,483.06*	*2,519.00*	*2,608.47*	*2,191.22*	*1,739.95*	*2,209.04*	*2,192.34*
Pascagoula													
03170002	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	58.88	55.42	57.93	61.05	66.33	69.73	61.12	68.92	66.04	64.03	61.21	58.10	62.43
03170009	2.47	2.61	2.89	3.26	3.98	4.88	5.07	4.89	4.49	4.13	3.03	2.72	3.71
Subtotal	*61.51*	*58.19*	*60.98*	*64.48*	*70.48*	*74.77*	*66.34*	*73.97*	*70.69*	*68.32*	*64.40*	*60.97*	*66.30*
Middle Tennessee-Hiwassee													
06020001	0.52	0.57	0.58	0.60	0.66	0.70	0.71	0.74	0.73	0.65	0.58	0.55	0.63
Subtotal	*0.52*	*0.57*	*0.58*	*0.60*	*0.66*	*0.70*	*0.71*	*0.74*	*0.73*	*0.65*	*0.58*	*0.55*	*0.63*
Middle Tennessee-Elk													
06030001	496.26	494.63	495.29	531.35	561.67	542.37	543.45	543.70	513.80	52.71	48.97	49.01	405.34
06030002	3,072.01	3,078.24	2,616.94	2,815.07	2,994.30	3,173.90	3,228.82	3,211.13	3,150.47	3,071.37	3,182.54	3,229.78	3,068.51
06030003	0.00	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	8.14	8.48	8.90	9.61	12.33	16.07	16.62	14.66	11.81	10.95	9.33	8.87	11.33
06030005	1,114.86	1,099.47	929.06	966.21	1,139.63	1,022.31	1,150.39	1,151.15	1,044.89	1,006.88	786.84	862.59	1,022.97
06030006	10.31	10.94	11.07	10.91	11.93	13.71	13.85	12.90	11.51	10.60	9.72	10.21	11.48
Subtotal	*4,701.57*	*4,691.75*	*4,061.27*	*4,333.15*	*4,719.86*	*4,768.35*	*4,953.13*	*4,933.55*	*4,732.49*	*4,152.51*	*4,037.40*	*4,160.46*	*4,519.63*
Total	**7,779.93**	**8,316.01**	**7,456.94**	**7,760.95**	**8,682.97**	**9,108.34**	**9,343.81**	**9,270.23**	**8,984.56**	**7,603.29**	**6,978.93**	**7,581.24**	**8,238.64**

Table 13. Total withdrawals by sector of use and county in Alabama in 2015, in MGD.

	Withdrawals by sector, in million gallons per day								
County	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
AUTAUGA	3.65	0.38	3.52	0.19	0.00	34.80	2.02	11.86	56.43
BALDWIN	23.70	2.15	58.42	0.29	0.10	0.00	0.22	0.00	84.88
BARBOUR	3.23	0.12	2.98	0.41	0.36	1.50	0.44	0.00	9.04
BIBB	5.18	0.16	0.19	0.07	0.00	0.00	0.01	0.00	5.61
BLOUNT	56.87	0.86	1.08	0.90	0.00	0.00	0.19	0.00	59.90
BULLOCK	2.11	0.07	2.00	0.16	0.05	0.00	0.00	0.00	4.39
BUTLER	2.28	0.27	1.01	0.32	0.00	0.19	0.00	0.00	4.07
CALHOUN	25.25	0.44	3.16	0.36	0.24	1.15	0.00	0.00	30.60
CHAMBERS	4.20	0.48	0.22	0.22	0.00	0.00	0.00	0.00	5.12
CHEROKEE	3.21	0.49	2.83	0.40	0.51	0.00	0.00	0.00	7.43
CHILTON	4.40	0.60	0.48	0.16	0.00	0.39	0.06	0.00	6.09
CHOCTAW	1.21	0.41	0.16	0.06	0.00	46.61	0.00	0.00	48.45
CLARKE	2.58	0.45	0.28	0.06	0.10	22.14	0.86	0.00	26.47
CLAY	1.78	0.32	0.12	0.38	0.00	0.00	0.00	0.00	2.60
CLEBURNE	0.49	0.94	0.14	0.33	0.00	0.00	0.00	0.00	1.90
COFFEE	6.35	0.80	3.89	0.79	0.00	1.74	0.00	0.00	13.56
COLBERT	8.27	0.35	2.46	0.37	0.00	29.70	0.00	963.99	1,005.13
CONECUH	1.32	0.18	0.21	0.12	0.00	0.00	0.06	0.00	1.89
COOSA	0.27	0.33	0.10	0.04	0.00	0.00	0.00	0.00	0.74
COVINGTON	4.09	1.01	3.47	0.55	0.00	0.00	0.00	1.15	10.26
CRENSHAW	1.94	0.15	0.58	0.72	0.00	0.00	0.00	0.00	3.39
CULLMAN	23.29	0.19	0.91	1.61	0.00	3.17	0.00	0.00	29.16
DALE	5.90	0.68	2.09	0.40	0.00	0.00	0.08	0.00	9.14
DALLAS	5.91	0.66	3.22	0.26	11.69	30.90	0.72	0.00	53.36
DEKALB	5.92	1.34	2.65	2.10	0.00	0.57	0.00	0.00	12.58
ELMORE	12.20	0.36	3.09	0.15	0.00	0.00	2.87	0.00	18.66
ESCAMBIA	5.01	0.51	1.75	0.17	0.00	34.01	1.15	0.00	42.59
ETOWAH	16.85	0.26	1.01	0.47	0.01	8.30	0.32	105.52	132.73
FAYETTE	1.70	0.49	0.37	0.18	0.00	0.00	0.31	0.00	3.05
FRANKLIN	5.94	0.37	0.84	0.65	0.00	0.00	0.49	0.00	8.29
GENEVA	1.77	0.68	5.50	0.74	0.13	0.00	0.07	0.00	8.89
GREENE	1.39	0.16	0.45	0.12	9.30	0.02	0.00	377.42	388.87
HALE	3.10	0.33	1.08	0.30	16.15	0.02	0.12	0.00	21.09
HENRY	1.66	0.24	5.89	0.26	0.00	0.26	0.00	0.00	8.32

Table 13. Total withdrawals by sector of use and county in Alabama in 2015, in MGD – Continued.

	Withdrawals by sector, in million gallons per day								
County	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
HOUSTON	18.96	1.11	7.59	0.25	0.00	0.30	0.00	99.08	127.29
JACKSON	11.81	0.86	1.29	0.66	0.00	9.10	0.00	352.22	375.94
JEFFERSON	48.97	0.39	5.90	0.08	0.00	0.87	1.09	0.00	57.30
LAMAR	1.42	0.29	0.24	0.11	0.00	0.10	0.00	0.00	2.16
LAUDERDALE	12.39	1.17	1.81	0.45	0.00	0.00	0.00	0.00	15.82
LAWRENCE	7.73	0.35	2.59	0.84	0.01	0.00	0.00	0.00	11.52
LEE	15.84	0.72	3.18	0.07	0.07	0.00	0.00	0.00	19.88
LIMESTONE	11.53	0.99	9.80	0.48	0.01	0.00	0.00	2,850.13	2,872.94
LOWNDES	0.95	0.05	5.75	0.68	1.30	4.24	0.24	0.00	13.21
MACON	3.32	0.15	5.94	0.10	0.00	0.00	1.57	0.00	11.08
MADISON	67.20	0.72	9.19	0.28	0.00	0.55	0.00	0.00	77.95
MARENGO	2.77	0.53	0.43	0.27	1.61	18.44	0.03	0.00	24.08
MARION	6.06	0.54	0.27	0.45	0.00	0.00	0.00	0.00	7.32
MARSHALL	23.76	0.43	2.08	1.12	0.00	0.08	0.00	0.00	27.48
MOBILE	66.13	2.72	10.94	0.23	0.01	10.10	0.22	693.70	784.05
MONROE	2.30	0.38	0.57	0.15	0.14	49.44	0.15	0.00	53.13
MONTGOMERY	28.04	0.30	6.29	0.91	0.40	1.81	1.18	0.00	38.93
MORGAN	25.61	0.32	1.04	0.73	0.00	88.34	0.00	2.68	118.72
PERRY	2.02	0.33	0.63	0.33	4.10	0.00	0.00	0.00	7.42
PICKENS	3.01	0.37	1.96	0.40	1.38	0.01	0.00	0.00	7.13
PIKE	4.58	0.33	1.47	0.56	0.00	0.00	0.00	0.00	6.94
RANDOLPH	1.22	0.58	0.14	0.59	0.00	0.00	0.00	0.00	2.53
RUSSELL	8.46	0.30	7.47	0.12	0.21	27.44	0.51	0.00	44.51
SHELBY	14.22	0.44	1.72	0.29	0.00	0.00	0.48	462.22	479.36
ST CLAIR	8.93	0.51	5.18	0.10	0.00	6.10	0.51	0.00	21.33
SUMTER	2.06	0.07	0.75	0.45	0.90	4.57	1.55	0.00	10.35
TALLADEGA	16.00	1.75	4.80	0.22	0.00	26.59	0.00	0.00	49.35
TALLAPOOSA	11.88	0.43	0.92	0.09	0.00	0.00	0.00	0.00	13.32
TUSCALOOSA	31.45	0.75	5.68	0.14	0.57	2.20	0.85	0.00	41.63
WALKER	43.84	0.45	0.72	0.19	0.05	0.00	0.54	664.34	710.12
WASHINGTON	2.80	0.52	0.23	0.13	0.02	9.25	3.22	39.94	56.11
WILCOX	2.80	0.23	0.45	0.15	0.00	19.67	0.00	0.00	23.30
WINSTON	0.81	0.43	0.18	0.28	0.00	0.00	0.05	0.00	1.74
TOTAL	**761.87**	**36.69**	**223.35**	**26.21**	**49.42**	**494.67**	**22.18**	**6,624.25**	**8,238.64**

Table 14. Total withdrawals by sector of use and hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Withdrawals by sector, in million gallons per day									
Hydrologic subregion and subbasin	**Public supply**	**Residential**	**Irrigation**	**Livestock**	**Aquaculture**	**Industrial**	**Mining**	**Thermoelectric**	**Total**
Apalachicola									
03130002	7.98	0.52	0.65	0.21	0.02	0.00	0.00	0.00	9.38
03130003	10.33	0.58	10.63	0.40	0.42	28.95	0.78	0.00	52.08
03130004	10.35	0.58	6.30	0.26	0.00	0.56	0.00	99.08	117.13
03130012	1.91	0.50	3.17	0.12	0.00	0.00	0.00	0.00	5.70
Subtotal	*30.57*	*2.18*	*20.74*	*0.99*	*0.44*	*29.51*	*0.79*	*99.08*	*184.29*
Chocawhatchee-Escambia									
03140103	1.27	0.48	1.69	0.29	0.00	0.00	0.00	0.00	3.74
03140104	0.08	0.11	0.30	0.05	0.00	0.00	0.09	0.00	0.63
03140106	5.06	0.69	16.98	0.10	0.03	0.00	0.14	0.00	23.00
03140107	5.62	0.29	8.24	0.04	0.01	0.00	0.03	0.00	14.24
03140201	20.98	1.51	10.27	1.21	0.16	0.60	0.23	0.00	34.95
03140202	5.83	1.08	6.17	1.23	0.13	1.14	0.12	0.00	15.69
03140203	0.47	0.16	1.26	0.17	0.03	0.00	0.02	0.00	2.11
03140301	6.12	0.43	2.26	0.60	0.01	0.00	0.03	1.15	10.60
03140302	1.60	0.22	1.19	0.61	0.04	0.00	0.13	0.00	3.79
03140303	2.46	0.36	1.44	0.39	0.04	0.19	0.05	0.00	4.93
03140304	3.30	0.38	1.17	0.16	0.00	34.01	0.66	0.00	39.68
03140305	2.19	0.16	0.51	0.06	0.01	0.00	0.29	0.00	3.22
Subtotal	*54.97*	*5.87*	*51.50*	*4.92*	*0.47*	*35.94*	*1.78*	*1.15*	*156.59*
Alabama									
03150105	4.08	0.90	3.56	0.84	0.50	0.00	0.00	0.00	9.88
03150106	63.88	2.75	11.38	1.57	0.26	42.71	0.79	105.52	228.86
03150107	17.39	1.64	4.53	0.47	0.00	0.00	1.23	462.22	487.48
03150108	0.88	0.95	0.12	0.56	0.00	0.00	0.00	0.00	2.51
03150109	17.51	1.03	1.27	0.62	0.00	0.00	0.23	0.00	20.65
03150110	32.09	0.79	11.40	0.43	0.13	0.00	2.94	0.00	47.78
03150201	26.97	1.12	14.23	1.51	4.76	72.14	3.74	11.86	136.33
03150202	75.77	0.80	6.23	0.43	3.55	0.16	0.59	0.00	87.52
03150203	4.44	0.87	3.81	0.68	8.59	19.67	0.53	0.00	38.60
03150204	2.06	0.69	6.34	0.19	0.15	49.44	0.39	0.00	59.25
Subtotal	*245.08*	*11.54*	*62.87*	*7.30*	*17.94*	*184.11*	*10.43*	*579.60*	*1,118.86*
Mobile-Tombigbee									
03160101	0.00	0.08	0.07	0.10	0.00	0.00	0.05	0.00	0.29

Table 14. Total withdrawals by sector of use and hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
03160103	2.62	0.44	0.26	0.32	0.00	0.00	0.00	0.00	3.63
03160105	3.16	0.38	0.37	0.17	0.08	0.10	0.08	0.00	4.34
03160106	4.30	0.32	1.72	0.42	1.28	0.58	0.32	0.00	8.95
03160107	0.95	0.46	1.20	0.23	1.69	0.00	0.25	0.00	4.78
03160108	0.26	0.10	0.29	0.13	5.19	0.00	0.21	0.00	6.19
03160109	49.50	0.77	1.06	1.27	0.05	3.17	0.54	664.34	720.68
03160110	12.09	0.51	1.08	1.06	0.00	0.00	0.07	0.00	14.81
03160111	37.97	0.93	2.76	0.95	0.00	0.71	0.72	0.00	44.05
03160112	47.13	0.67	4.37	0.16	0.31	0.20	0.86	0.00	53.70
03160113	5.71	0.68	3.11	0.45	19.77	2.04	0.37	377.42	409.55
03160201	3.28	0.89	0.84	0.39	1.67	67.93	0.51	0.00	75.52
03160202	0.67	0.03	0.46	0.19	0.38	1.12	0.65	0.00	3.49
03160203	4.23	0.70	0.51	0.14	0.08	31.39	2.84	39.94	79.83
03160204	8.22	1.28	14.18	0.13	0.02	9.04	0.12	693.70	726.69
03160205	14.35	1.12	19.03	0.12	0.03	1.06	0.10	0.00	35.82
Subtotal	*194.43*	*9.37*	*51.30*	*6.23*	*30.54*	*117.35*	*7.71*	*1,775.40*	*2,192.34*
Pascagoula									
03170002	0.00	0.03	0.00	0.01	0.00	0.00	0.12	0.00	0.16
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	57.47	0.85	3.16	0.09	0.01	0.00	0.84	0.00	62.43
03170009	1.16	0.53	1.93	0.04	0.00	0.00	0.04	0.00	3.71
Subtotal	*58.63*	*1.41*	*5.09*	*0.14*	*0.01*	*0.00*	*1.00*	*0.00*	*66.30*
Middle Tennessee-Hiwassee									
06020001	0.30	0.08	0.12	0.13	0.00	0.00	0.00	0.00	0.63
Subtotal	*0.30*	*0.08*	*0.12*	*0.13*	*0.00*	*0.00*	*0.00*	*0.00*	*0.63*
Middle Tennessee-Elk									
06030001	36.37	1.65	3.60	2.30	0.00	9.18	0.02	352.22	405.34
06030002	103.13	2.32	19.09	2.26	0.01	88.89	0.00	2,852.82	3068.51
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	7.67	0.41	3.07	0.19	0.00	0.00	0.00	0.00	11.33
06030005	21.92	1.39	4.83	1.08	0.00	29.70	0.06	963.99	1022.97
06030006	8.79	0.47	1.16	0.68	0.00	0.00	0.38	0.00	11.48
Subtotal	*177.88*	*6.22*	*31.73*	*6.51*	*0.02*	*127.76*	*0.47*	*4,169.03*	*4,519.63*
Total	**761.87**	**36.69**	**223.35**	**26.21**	**49.42**	**494.67**	**22.18**	**6,624.25**	**8,238.64**

Table 15. Total groundwater withdrawals by sector of use and county in Alabama in 2015, in MGD.

	Withdrawals by sector, in million gallons per day								
County	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
AUTAUGA	3.65	0.38	3.36	0.08	0.00	1.83	1.40	0.00	10.70
BALDWIN	23.70	2.15	47.28	0.13	0.05	0.00	0.22	0.00	73.52
BARBOUR	3.23	0.12	0.58	0.16	0.18	1.50	0.30	0.00	6.07
BIBB	5.18	0.16	0.03	0.03	0.00	0.00	0.01	0.00	5.42
BLOUNT	2.78	0.86	0.20	0.43	0.00	0.00	0.19	0.00	4.46
BULLOCK	2.11	0.07	0.92	0.06	0.00	0.00	0.00	0.00	3.16
BUTLER	2.28	0.27	0.01	0.13	0.00	0.19	0.00	0.00	2.89
CALHOUN	22.47	0.44	0.00	0.15	0.12	1.15	0.00	0.00	24.33
CHAMBERS	0.00	0.48	0.07	0.09	0.00	0.00	0.00	0.00	0.63
CHEROKEE	2.43	0.49	0.00	0.16	0.51	0.00	0.00	0.00	3.60
CHILTON	2.51	0.60	0.33	0.07	0.00	0.39	0.06	0.00	3.96
CHOCTAW	1.21	0.41	0.00	0.03	0.00	0.00	0.00	0.00	1.65
CLARKE	2.50	0.45	0.02	0.02	0.00	0.00	0.86	0.00	3.85
CLAY	0.00	0.32	0.00	0.17	0.00	0.00	0.00	0.00	0.49
CLEBURNE	0.00	0.94	0.00	0.15	0.00	0.00	0.00	0.00	1.09
COFFEE	6.35	0.80	0.68	0.34	0.00	1.74	0.00	0.00	9.91
COLBERT	0.60	0.35	0.79	0.16	0.00	0.00	0.00	0.00	1.90
CONECUH	1.32	0.18	0.05	0.05	0.00	0.00	0.04	0.00	1.64
COOSA	0.27	0.33	0.00	0.02	0.00	0.00	0.00	0.00	0.62
COVINGTON	4.09	1.01	1.27	0.23	0.00	0.00	0.00	0.00	6.60
CRENSHAW	1.94	0.15	0.00	0.30	0.00	0.00	0.00	0.00	2.39
CULLMAN	0.31	0.19	0.28	0.82	0.00	0.73	0.00	0.00	2.33
DALE	5.90	0.68	0.33	0.17	0.00	0.00	0.05	0.00	7.13
DALLAS	5.91	0.66	0.69	0.10	7.79	0.24	0.50	0.00	15.89
DEKALB	0.33	1.34	0.49	0.99	0.00	0.57	0.00	0.00	3.73
ELMORE	2.68	0.36	0.61	0.07	0.00	0.00	1.95	0.00	5.67
ESCAMBIA	5.01	0.51	1.00	0.07	0.00	1.46	1.15	0.00	9.20
ETOWAH	4.12	0.26	0.00	0.21	0.00	0.00	0.22	0.00	4.81
FAYETTE	0.05	0.49	0.00	0.08	0.00	0.00	0.00	0.00	0.62
FRANKLIN	1.05	0.37	0.00	0.28	0.00	0.00	0.34	0.00	2.05
GENEVA	1.77	0.68	2.52	0.32	0.13	0.00	0.05	0.00	5.47
GREENE	1.39	0.16	0.33	0.05	4.21	0.02	0.00	0.00	6.16
HALE	3.10	0.33	0.92	0.14	8.81	0.02	0.12	0.00	13.43
HENRY	1.66	0.24	1.43	0.10	0.00	0.26	0.00	0.00	3.70

Table 15. Total groundwater withdrawals by sector of use and county in Alabama in 2015, in MGD – Continued.

Withdrawals by sector, in million gallons per day									
County	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
HOUSTON	18.96	1.11	5.17	0.10	0.00	0.30	0.00	0.00	25.64
JACKSON	0.51	0.86	0.27	0.29	0.00	0.00	0.00	0.00	1.93
JEFFERSON	7.88	0.39	0.08	0.03	0.00	0.87	0.62	0.00	9.87
LAMAR	1.42	0.29	0.00	0.05	0.00	0.10	0.00	0.00	1.86
LAUDERDALE	1.85	1.17	0.56	0.19	0.00	0.00	0.00	0.00	3.77
LAWRENCE	0.00	0.35	0.05	0.36	0.00	0.00	0.00	0.00	0.76
LEE	2.84	0.72	0.29	0.03	0.03	0.00	0.00	0.00	3.91
LIMESTONE	3.86	0.99	2.48	0.21	0.01	0.00	0.00	0.00	7.54
LOWNDES	0.95	0.05	0.00	0.27	0.65	4.24	0.16	0.00	6.31
MACON	1.37	0.15	2.40	0.04	0.00	0.00	1.05	0.00	5.01
MADISON	29.01	0.72	5.02	0.12	0.00	0.00	0.00	0.00	34.86
MARENGO	2.77	0.53	0.17	0.11	0.69	0.00	0.02	0.00	4.29
MARION	0.76	0.54	0.11	0.19	0.00	0.00	0.00	0.00	1.60
MARSHALL	3.31	0.43	0.79	0.56	0.00	0.08	0.00	0.00	5.17
MOBILE	13.49	2.72	8.67	0.10	0.00	6.49	0.22	0.00	31.68
MONROE	2.30	0.38	0.41	0.06	0.07	0.12	0.15	0.00	3.50
MONTGOMERY	13.19	0.30	4.26	0.37	0.20	1.78	0.80	0.00	20.90
MORGAN	0.00	0.32	0.16	0.33	0.00	0.01	0.00	0.00	0.81
PERRY	2.02	0.33	0.54	0.14	2.34	0.00	0.00	0.00	5.37
PICKENS	3.01	0.37	0.00	0.20	0.61	0.01	0.00	0.00	4.20
PIKE	4.58	0.33	0.41	0.23	0.00	0.00	0.00	0.00	5.56
RANDOLPH	0.00	0.58	0.03	0.28	0.00	0.00	0.00	0.00	0.88
RUSSELL	1.59	0.30	0.00	0.05	0.21	1.44	0.34	0.00	3.93
SHELBY	11.92	0.44	0.34	0.12	0.00	0.00	0.32	0.00	13.14
ST CLAIR	6.35	0.51	0.00	0.04	0.00	0.00	0.51	0.00	7.41
SUMTER	2.06	0.07	0.50	0.18	0.40	0.00	1.06	0.00	4.26
TALLADEGA	9.39	1.75	0.61	0.10	0.00	0.00	0.00	0.00	11.84
TALLAPOOSA	0.00	0.43	0.02	0.04	0.00	0.00	0.00	0.00	0.49
TUSCALOOSA	0.69	0.75	1.33	0.06	0.24	1.53	0.00	0.00	4.59
WALKER	0.46	0.45	0.05	0.08	0.00	0.00	0.13	0.00	1.16
WASHINGTON	2.80	0.52	0.07	0.06	0.00	5.83	3.22	0.00	12.50
WILCOX	0.84	0.23	0.06	0.06	0.00	0.00	0.00	0.00	1.18
WINSTON	0.00	0.43	0.00	0.13	0.00	0.00	0.05	0.00	0.61
TOTAL	**272.07**	**36.69**	**99.07**	**11.54**	**27.25**	**32.91**	**16.11**	**0.00**	**495.64**

Table 16. Total groundwater withdrawals by sector of use and hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Withdrawals by sector, in million gallons per day									
Hydrologic subregion and subbasin	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
Apalachicola									
03130002	0.00	0.52	0.12	0.09	0.01	0.00	0.00	0.00	0.74
03130003	3.46	0.58	0.73	0.16	0.30	2.94	0.53	0.00	8.70
03130004	10.35	0.58	2.89	0.10	0.00	0.56	0.00	0.00	14.49
03130012	1.91	0.50	2.32	0.05	0.00	0.00	0.00	0.00	4.78
Subtotal	*15.72*	*2.18*	*6.06*	*0.40*	*0.32*	*3.51*	*0.53*	*0.00*	*28.71*
Chocawhatchee-Escambia									
03140103	1.27	0.48	0.60	0.12	0.00	0.00	0.00	0.00	2.47
03140104	0.08	0.11	0.16	0.02	0.00	0.00	0.09	0.00	0.46
03140106	5.06	0.69	14.47	0.04	0.02	0.00	0.14	0.00	20.42
03140107	5.62	0.29	6.35	0.02	0.01	0.00	0.03	0.00	12.32
03140201	20.98	1.51	3.10	0.51	0.11	0.60	0.15	0.00	26.96
03140202	5.83	1.08	1.95	0.52	0.08	1.14	0.08	0.00	10.66
03140203	0.47	0.16	0.60	0.07	0.03	0.00	0.01	0.00	1.35
03140301	6.12	0.43	0.69	0.25	0.00	0.00	0.02	0.00	7.51
03140302	1.60	0.22	0.58	0.25	0.02	0.00	0.09	0.00	2.76
03140303	2.46	0.36	0.14	0.16	0.02	0.19	0.04	0.00	3.37
03140304	3.30	0.38	0.58	0.07	0.00	1.46	0.65	0.00	6.44
03140305	2.19	0.16	0.27	0.02	0.00	0.00	0.29	0.00	2.94
Subtotal	*54.97*	*5.87*	*29.50*	*2.06*	*0.29*	*3.40*	*1.59*	*0.00*	*97.68*
Alabama									
03150105	2.43	0.90	0.09	0.37	0.48	0.00	0.00	0.00	4.28
03150106	36.18	2.75	0.54	0.70	0.15	1.72	0.69	0.00	42.73
03150107	6.97	1.64	0.83	0.21	0.00	0.00	0.84	0.00	10.48
03150108	0.00	0.95	0.01	0.26	0.00	0.00	0.00	0.00	1.23
03150109	0.00	1.03	0.11	0.28	0.00	0.00	0.15	0.00	1.58
03150110	4.87	0.79	3.82	0.18	0.05	0.00	1.98	0.00	11.69
03150201	26.97	1.12	6.75	0.61	2.97	8.47	2.57	0.00	49.48
03150202	24.71	0.80	0.62	0.18	2.14	0.16	0.38	0.00	28.98
03150203	2.48	0.87	0.67	0.27	5.50	0.00	0.37	0.00	10.17
03150204	2.06	0.69	5.43	0.08	0.06	0.12	0.39	0.00	8.83
Subtotal	*106.66*	*11.54*	*18.86*	*3.13*	*11.37*	*10.48*	*7.38*	*0.00*	*169.43*
Mobile-Tombigbee									
03160101	0.00	0.08	0.01	0.04	0.00	0.00	0.03	0.00	0.17

Table 16. Total groundwater withdrawals by sector of use and hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Withdrawals by sector, in million gallons per day									
Hydrologic subregion and subbasin	**Public supply**	**Residential**	**Irrigation**	**Livestock**	**Aquaculture**	**Industrial**	**Mining**	**Thermoelectric**	**Total**
03160103	0.59	0.44	0.07	0.14	0.00	0.00	0.00	0.00	1.24
03160105	1.50	0.38	0.01	0.08	0.04	0.10	0.00	0.00	2.10
03160106	4.30	0.32	0.10	0.20	0.57	0.01	0.22	0.00	5.72
03160107	0.95	0.46	0.25	0.10	0.76	0.00	0.00	0.00	2.53
03160108	0.26	0.10	0.24	0.05	2.35	0.00	0.14	0.00	3.16
03160109	0.41	0.77	0.24	0.62	0.00	0.73	0.16	0.00	2.94
03160110	0.00	0.51	0.13	0.52	0.00	0.00	0.05	0.00	1.20
03160111	3.13	0.93	0.31	0.45	0.00	0.71	0.48	0.00	6.01
03160112	0.70	0.67	0.74	0.07	0.13	0.20	0.17	0.00	2.69
03160113	5.71	0.68	1.50	0.20	10.51	1.37	0.12	0.00	20.09
03160201	3.28	0.89	0.27	0.16	0.73	0.00	0.38	0.00	5.72
03160202	0.67	0.03	0.21	0.08	0.17	0.00	0.44	0.00	1.59
03160203	4.15	0.70	0.24	0.06	0.00	5.83	2.84	0.00	13.82
03160204	8.22	1.28	11.61	0.06	0.01	5.43	0.12	0.00	26.73
03160205	14.35	1.12	14.35	0.05	0.01	1.06	0.10	0.00	31.05
Subtotal	*48.23*	*9.37*	*30.29*	*2.88*	*15.27*	*15.44*	*5.27*	*0.00*	*126.76*
Pascagoula									
03170002	0.00	0.03	0.00	0.00	0.00	0.00	0.12	0.00	0.15
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	4.83	0.85	2.34	0.04	0.00	0.00	0.84	0.00	8.90
03170009	1.16	0.53	1.70	0.02	0.00	0.00	0.04	0.00	3.45
Subtotal	*5.99*	*1.41*	*4.04*	*0.06*	*0.00*	*0.00*	*1.00*	*0.00*	*12.51*
Middle Tennessee-Hiwassee									
06020001	0.30	0.08	0.03	0.06	0.00	0.00	0.00	0.00	0.48
Subtotal	*0.30*	*0.08*	*0.03*	*0.06*	*0.00*	*0.00*	*0.00*	*0.00*	*0.48*
Middle Tennessee-Elk									
06030001	3.84	1.65	0.91	1.09	0.00	0.08	0.02	0.00	7.58
06030002	33.50	2.32	7.27	1.02	0.01	0.01	0.00	0.00	44.12
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.00	0.41	0.82	0.08	0.00	0.00	0.00	0.00	1.31
06030005	1.81	1.39	1.01	0.46	0.00	0.00	0.04	0.00	4.71
06030006	1.05	0.47	0.27	0.29	0.00	0.00	0.27	0.00	2.35
Subtotal	*40.20*	*6.22*	*10.28*	*2.94*	*0.01*	*0.09*	*0.33*	*0.00*	*60.07*
Total	**272.07**	**36.69**	**99.07**	**11.54**	**27.25**	**32.91**	**16.11**	**0.00**	**495.64**

Table 17. Total surface-water withdrawals by sector of use and county in Alabama in 2015, in MGD.

	Withdrawals by sector, in million gallons per day								
County	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
AUTAUGA	0.00	0.00	0.16	0.11	0.00	32.97	0.62	11.86	45.72
BALDWIN	0.00	0.00	11.15	0.16	0.05	0.00	0.00	0.00	11.36
BARBOUR	0.00	0.00	2.41	0.25	0.18	0.00	0.14	0.00	2.98
BIBB	0.00	0.00	0.16	0.04	0.00	0.00	0.00	0.00	0.20
BLOUNT	54.09	0.00	0.88	0.47	0.00	0.00	0.00	0.00	55.44
BULLOCK	0.00	0.00	1.08	0.10	0.05	0.00	0.00	0.00	1.23
BUTLER	0.00	0.00	0.99	0.19	0.00	0.00	0.00	0.00	1.18
CALHOUN	2.78	0.00	3.16	0.21	0.12	0.00	0.00	0.00	6.27
CHAMBERS	4.20	0.00	0.16	0.13	0.00	0.00	0.00	0.00	4.49
CHEROKEE	0.77	0.00	2.83	0.24	0.00	0.00	0.00	0.00	3.84
CHILTON	1.89	0.00	0.16	0.09	0.00	0.00	0.00	0.00	2.14
CHOCTAW	0.00	0.00	0.16	0.03	0.00	46.61	0.00	0.00	46.80
CLARKE	0.08	0.00	0.26	0.04	0.10	22.14	0.00	0.00	22.62
CLAY	1.78	0.00	0.12	0.21	0.00	0.00	0.00	0.00	2.11
CLEBURNE	0.49	0.00	0.14	0.18	0.00	0.00	0.00	0.00	0.81
COFFEE	0.00	0.00	3.20	0.45	0.00	0.00	0.00	0.00	3.65
COLBERT	7.67	0.00	1.67	0.21	0.00	29.70	0.00	963.99	1,003.23
CONECUH	0.00	0.00	0.16	0.07	0.00	0.00	0.02	0.00	0.25
COOSA	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.12
COVINGTON	0.00	0.00	2.20	0.32	0.00	0.00	0.00	1.15	3.67
CRENSHAW	0.00	0.00	0.58	0.42	0.00	0.00	0.00	0.00	1.00
CULLMAN	22.98	0.00	0.63	0.79	0.00	2.43	0.00	0.00	26.83
DALE	0.00	0.00	1.76	0.23	0.00	0.00	0.03	0.00	2.02
DALLAS	0.00	0.00	2.53	0.16	3.90	30.66	0.22	0.00	37.47
DEKALB	5.59	0.00	2.15	1.11	0.00	0.00	0.00	0.00	8.85
ELMORE	9.51	0.00	2.48	0.08	0.00	0.00	0.92	0.00	12.99
ESCAMBIA	0.00	0.00	0.75	0.10	0.00	32.54	0.00	0.00	33.39
ETOWAH	12.73	0.00	1.00	0.26	0.01	8.30	0.10	105.52	127.91
FAYETTE	1.65	0.00	0.37	0.10	0.00	0.00	0.31	0.00	2.42
FRANKLIN	4.89	0.00	0.84	0.37	0.00	0.00	0.15	0.00	6.25
GENEVA	0.00	0.00	2.97	0.42	0.00	0.00	0.02	0.00	3.41
GREENE	0.00	0.00	0.13	0.07	5.09	0.00	0.00	377.42	382.71
HALE	0.00	0.00	0.16	0.16	7.34	0.00	0.00	0.00	7.66
HENRY	0.00	0.00	4.46	0.16	0.00	0.00	0.00	0.00	4.62

Table 17. Total surface-water withdrawals by sector of use and county in Alabama in 2015, in MGD – Continued.

	Withdrawals by sector, in million gallons per day								
County	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
HOUSTON	0.00	0.00	2.42	0.15	0.00	0.00	0.00	99.08	101.65
JACKSON	11.31	0.00	1.02	0.37	0.00	9.10	0.00	352.22	374.01
JEFFERSON	41.09	0.00	5.82	0.05	0.00	0.00	0.47	0.00	47.43
LAMAR	0.00	0.00	0.24	0.06	0.00	0.00	0.00	0.00	0.30
LAUDERDALE	10.54	0.00	1.25	0.26	0.00	0.00	0.00	0.00	12.05
LAWRENCE	7.73	0.00	2.54	0.48	0.01	0.00	0.00	0.00	10.76
LEE	13.00	0.00	2.89	0.04	0.04	0.00	0.00	0.00	15.97
LIMESTONE	7.67	0.00	7.32	0.27	0.00	0.00	0.00	2,850.13	2,865.39
LOWNDES	0.00	0.00	5.75	0.41	0.65	0.00	0.08	0.00	6.89
MACON	1.95	0.00	3.55	0.06	0.00	0.00	0.52	0.00	6.07
MADISON	38.20	0.00	4.17	0.16	0.00	0.55	0.00	0.00	43.08
MARENGO	0.00	0.00	0.26	0.16	0.92	18.44	0.01	0.00	19.79
MARION	5.30	0.00	0.16	0.26	0.00	0.00	0.00	0.00	5.71
MARSHALL	20.45	0.00	1.30	0.56	0.00	0.00	0.00	0.00	22.31
MOBILE	52.64	0.00	2.27	0.13	0.01	3.61	0.00	693.70	752.37
MONROE	0.00	0.00	0.16	0.09	0.07	49.31	0.00	0.00	49.63
MONTGOMERY	14.85	0.00	2.03	0.54	0.20	0.03	0.38	0.00	18.02
MORGAN	25.61	0.00	0.89	0.40	0.00	88.33	0.00	2.68	117.91
PERRY	0.00	0.00	0.10	0.19	1.76	0.00	0.00	0.00	2.05
PICKENS	0.00	0.00	1.96	0.20	0.77	0.00	0.00	0.00	2.93
PIKE	0.00	0.00	1.06	0.33	0.00	0.00	0.00	0.00	1.39
RANDOLPH	1.22	0.00	0.11	0.31	0.00	0.00	0.00	0.00	1.64
RUSSELL	6.87	0.00	7.47	0.07	0.00	26.00	0.17	0.00	40.58
SHELBY	2.30	0.00	1.38	0.17	0.00	0.00	0.16	462.22	466.22
ST CLAIR	2.58	0.00	5.18	0.06	0.00	6.10	0.00	0.00	13.92
SUMTER	0.00	0.00	0.26	0.27	0.50	4.57	0.49	0.00	6.09
TALLADEGA	6.61	0.00	4.19	0.12	0.00	26.59	0.00	0.00	37.51
TALLAPOOSA	11.88	0.00	0.89	0.05	0.00	0.00	0.00	0.00	12.83
TUSCALOOSA	30.75	0.00	4.35	0.08	0.33	0.67	0.85	0.00	37.04
WALKER	43.38	0.00	0.67	0.11	0.05	0.00	0.41	664.34	708.96
WASHINGTON	0.00	0.00	0.16	0.07	0.02	3.42	0.00	39.94	43.61
WILCOX	1.96	0.00	0.39	0.09	0.00	19.67	0.00	0.00	22.11
WINSTON	0.81	0.00	0.18	0.15	0.00	0.00	0.00	0.00	1.14
TOTAL	**489.80**	**0.00**	**124.28**	**14.67**	**22.17**	**461.76**	**6.07**	**6,624.25**	**7,743.00**

Table 18. Total surface-water withdrawals by sector of use and hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Withdrawals by sector, in million gallons per day									
Hydrologic subregion and subbasin	Public supply	Residential	Irrigation	Livestock	Aquaculture	Industrial	Mining	Thermoelectric	Total
Apalachicola									
03130002	7.98	0.00	0.53	0.12	0.01	0.00	0.00	0.00	8.64
03130003	6.87	0.00	9.90	0.24	0.11	26.00	0.26	0.00	43.38
03130004	0.00	0.00	3.40	0.16	0.00	0.00	0.00	99.08	102.64
03130012	0.00	0.00	0.85	0.07	0.00	0.00	0.00	0.00	0.92
Subtotal	*14.85*	*0.00*	*14.67*	*0.59*	*0.12*	*26.00*	*0.26*	*99.08*	*155.58*
Chocawhatchee-Escambia									
03140103	0.00	0.00	1.10	0.17	0.00	0.00	0.00	0.00	1.27
03140104	0.00	0.00	0.14	0.03	0.00	0.00	0.00	0.00	0.17
03140106	0.00	0.00	2.51	0.06	0.02	0.00	0.00	0.00	2.58
03140107	0.00	0.00	1.89	0.02	0.01	0.00	0.00	0.00	1.92
03140201	0.00	0.00	7.16	0.70	0.05	0.00	0.08	0.00	7.99
03140202	0.00	0.00	4.23	0.71	0.05	0.00	0.04	0.00	5.03
03140203	0.00	0.00	0.66	0.10	0.00	0.00	0.00	0.00	0.76
03140301	0.00	0.00	1.57	0.35	0.01	0.00	0.01	1.15	3.09
03140302	0.00	0.00	0.61	0.36	0.02	0.00	0.04	0.00	1.03
03140303	0.00	0.00	1.31	0.23	0.02	0.00	0.01	0.00	1.56
03140304	0.00	0.00	0.59	0.09	0.00	32.54	0.01	0.00	33.24
03140305	0.00	0.00	0.24	0.04	0.00	0.00	0.00	0.00	0.28
Subtotal	*0.00*	*0.00*	*22.00*	*2.86*	*0.18*	*32.54*	*0.19*	*1.15*	*58.91*
Alabama									
03150105	1.65	0.00	3.47	0.47	0.01	0.00	0.00	0.00	5.60
03150106	27.70	0.00	10.84	0.87	0.12	40.98	0.10	105.52	186.13
03150107	10.43	0.00	3.71	0.26	0.00	0.00	0.39	462.22	477.00
03150108	0.88	0.00	0.10	0.30	0.00	0.00	0.00	0.00	1.28
03150109	17.51	0.00	1.16	0.34	0.00	0.00	0.07	0.00	19.08
03150110	27.22	0.00	7.58	0.26	0.07	0.00	0.96	0.00	36.09
03150201	0.00	0.00	7.48	0.89	1.79	63.66	1.16	11.86	86.85
03150202	51.07	0.00	5.61	0.25	1.41	0.00	0.21	0.00	58.54
03150203	1.96	0.00	3.15	0.41	3.09	19.67	0.15	0.00	28.43
03150204	0.00	0.00	0.91	0.11	0.09	49.31	0.00	0.00	50.42
Subtotal	*138.42*	*0.00*	*44.00*	*4.17*	*6.57*	*173.63*	*3.05*	*579.60*	*949.43*
Mobile-Tombigbee									
03160101	0.00	0.00	0.06	0.06	0.00	0.00	0.01	0.00	0.13

Table 18. Total surface-water withdrawals by sector of use and hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Withdrawals by sector, in million gallons per day									
Hydrologic subregion and subbasin	**Public supply**	**Residential**	**Irrigation**	**Livestock**	**Aquaculture**	**Industrial**	**Mining**	**Thermoelectric**	**Total**
03160103	2.03	0.00	0.19	0.18	0.00	0.00	0.00	0.00	2.40
03160105	1.66	0.00	0.36	0.09	0.04	0.00	0.08	0.00	2.24
03160106	0.00	0.00	1.61	0.22	0.71	0.58	0.11	0.00	3.23
03160107	0.00	0.00	0.94	0.13	0.93	0.00	0.25	0.00	2.25
03160108	0.00	0.00	0.04	0.08	2.84	0.00	0.07	0.00	3.03
03160109	49.09	0.00	0.82	0.64	0.04	2.43	0.38	664.34	717.74
03160110	12.09	0.00	0.95	0.54	0.00	0.00	0.03	0.00	13.61
03160111	34.84	0.00	2.46	0.50	0.00	0.00	0.25	0.00	38.04
03160112	46.42	0.00	3.63	0.09	0.18	0.00	0.69	0.00	51.01
03160113	0.00	0.00	1.61	0.24	9.26	0.67	0.25	377.42	389.46
03160201	0.00	0.00	0.57	0.23	0.94	67.93	0.13	0.00	69.80
03160202	0.00	0.00	0.26	0.11	0.21	1.12	0.21	0.00	1.90
03160203	0.08	0.00	0.28	0.08	0.08	25.56	0.00	39.94	66.01
03160204	0.00	0.00	2.57	0.07	0.01	3.61	0.00	693.70	699.97
03160205	0.00	0.00	4.68	0.07	0.02	0.00	0.00	0.00	4.77
Subtotal	*146.20*	*0.00*	*21.02*	*3.34*	*15.28*	*101.90*	*2.44*	*1,775.40*	*2,065.58*
Pascagoula									
03170002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	52.64	0.00	0.82	0.05	0.01	0.00	0.00	0.00	53.53
03170009	0.00	0.00	0.23	0.03	0.00	0.00	0.00	0.00	0.26
Subtotal	*52.64*	*0.00*	*1.05*	*0.08*	*0.01*	*0.00*	*0.00*	*0.00*	*53.79*
Middle Tennessee-Hiwassee									
06020001	0.00	0.00	0.09	0.07	0.00	0.00	0.00	0.00	0.15
Subtotal	*0.00*	*0.00*	*0.09*	*0.07*	*0.00*	*0.00*	*0.00*	*0.00*	*0.15*
Middle Tennessee-Elk									
06030001	32.53	0.00	2.68	1.22	0.00	9.10	0.00	352.22	397.76
06030002	69.63	0.00	11.82	1.24	0.00	88.88	0.00	2,852.82	3024.39
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	7.67	0.00	2.24	0.11	0.00	0.00	0.00	0.00	10.02
06030005	20.11	0.00	3.82	0.62	0.00	29.70	0.02	963.99	1018.26
06030006	7.74	0.00	0.89	0.39	0.00	0.00	0.12	0.00	9.13
Subtotal	*137.68*	*0.00*	*21.45*	*3.57*	*0.01*	*127.68*	*0.14*	*4,169.03*	*4,459.56*
Total	**489.80**	**0.00**	**124.28**	**14.67**	**22.17**	**461.76**	**6.07**	**6,624.25**	**7,743.00**

Public Supply

Public supply refers to water that is withdrawn, treated, and distributed by public suppliers. Public suppliers provide water for a variety of uses such as residential, commercial, industrial, thermoelectric power, and public-water use. Thermoelectric-power delivery amounts have not been estimated separately for this report but are included in the industrial/commercial deliveries.

Public-supply withdrawals, residential deliveries, and population served are listed by county and subbasin in tables 19 through 26 with tables 20 through 22 and tables 24 through 26 showing monthly withdrawals. For 2015, public-supply withdrawals were 762 MGD. Public-supply withdrawals were 9 percent of total withdrawals and 47 percent of total withdrawals for all sectors excluding thermoelectric power (figure 13). The majority of the public-supply water (490 MGD, or 64 percent) was withdrawn from surface-water sources (figure 17). The remaining 272 MGD, or 36 percent, was withdrawn from groundwater. In 2015, about 4.32 million people, or 89 percent of the population, depended on water from public suppliers. The percentage of population served by public supply by county is shown in figure 18. The total delivery to residential customers was 321 MGD, or about 42 percent of the total withdrawals by public suppliers; combined industrial and commercial deliveries were 288 MGD, or 38 percent; and public use and losses accounted for the remaining 153 MGD, or 20 percent (figure 17). See the "Residential Withdrawals" and "Industrial Withdrawals" sections for additional details.

The geographic distribution of the total, groundwater, and surface-water withdrawals for public supply by county is shown in figure 19. Counties whose water withdrawals serve cities with large populations had the largest amounts of withdrawal. Madison (Huntsville), Mobile (City of Mobile), Jefferson (Birmingham), Blount, and Walker (sources of water for metropolitan Birmingham) Counties accounted for 37 percent of the water withdrawn and 34 percent of the population served by public suppliers (figures 19 and 20, table 19). Jefferson County had the highest percentage of population served by a public supply (99 percent) and was 1 of 21 counties whose public suppliers collectively served more than 90 percent of their respective county populations (figure 18). The largest surface-water withdrawals occurred in Blount and Mobile Counties (combined 107 MGD), and the largest groundwater withdrawals were in Madison and Baldwin Counties (combined 53 MGD).

The rank and associated cumulative percentile of total public-supply withdrawals by county are shown in figure 21. Madison, Mobile, Blount, and Jefferson Counties accounted for 31 percent of the public-supply withdrawals (table 19; figures 19 and 21). The remaining 63 counties accounted for the remaining 69 percent of the public-supply withdrawals. For comparison purposes, shading in the choropleth map ranges in figure 19 corresponds to shading in the cumulative percentile ranges in figure 21.

The geographic distribution of the total, groundwater, and surface-water withdrawals for public supply by hydrologic subbasin is shown in figure 22. The rank and associated cumulative percentile of total public-supply withdrawals by county are shown in figure 23. The Wheeler Lake (06030002, in the Middle Tennessee–Elk subregion, City of Huntsville), the Cahaba (03150202, in the Alabama subregion, metropolitan Birmingham), the Middle Coosa (03150106, in the

Alabama subregion, Cities of Talladega and Anniston), the Escatawpa (03170008, in the Pascagoula subregion, source of water for City of Mobile), the Mulberry Fork (03160109, in the Mobile–Tombigbee subregion, Cities of Jasper and Cullman), and the Upper Black Warrior (03160112, in the Mobile–Tombigbee subregion, City of Birmingham) subbasins accounted for 52 percent of the public-supply withdrawals, and the remaining 47 subbasins accounted for the other 48 percent (table 12; figures 18 and 19). Similar to figures 19 and 21, the choropleth map shading in figure 22 corresponds to the percentile shading in figure 23.

Several sources of data were used to estimate public-supply withdrawals, deliveries, and population served. A comprehensive list of public-suppliers was compiled from records from Alabama OWR, DWB-ADEM, ARWA, and USEPA-SDWIS. The primary sources for water withdrawals and public-supply deliveries were Alabama OWR and DWB-ADEM. Population served was estimated from the methods developed for the 2005 water use report. Details are in the "Public-Supply and Residential Water Use" and "Population Served and Self-Supplied Residential Population" sections in the "Data Compilation, Sources of Information, and Methodology for Withdrawals" section in this report.

Figure 17. Source and distribution of public-supply water in Alabama in 2015, in MGD.

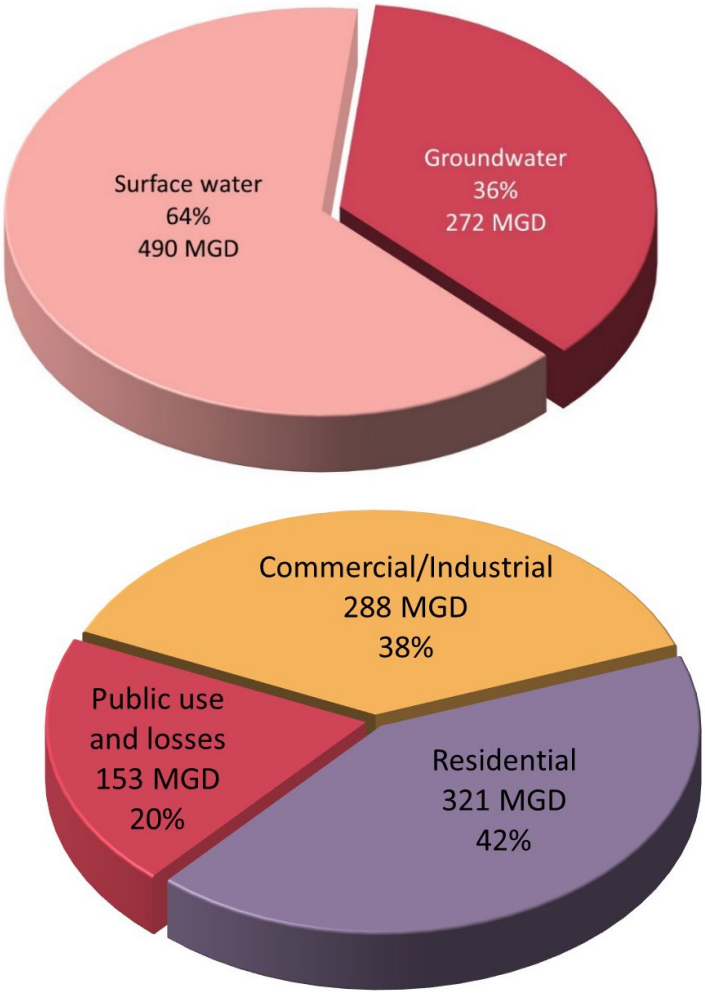


Figure 18. Map of percentage of population served by public suppliers by county in Alabama in 2015.

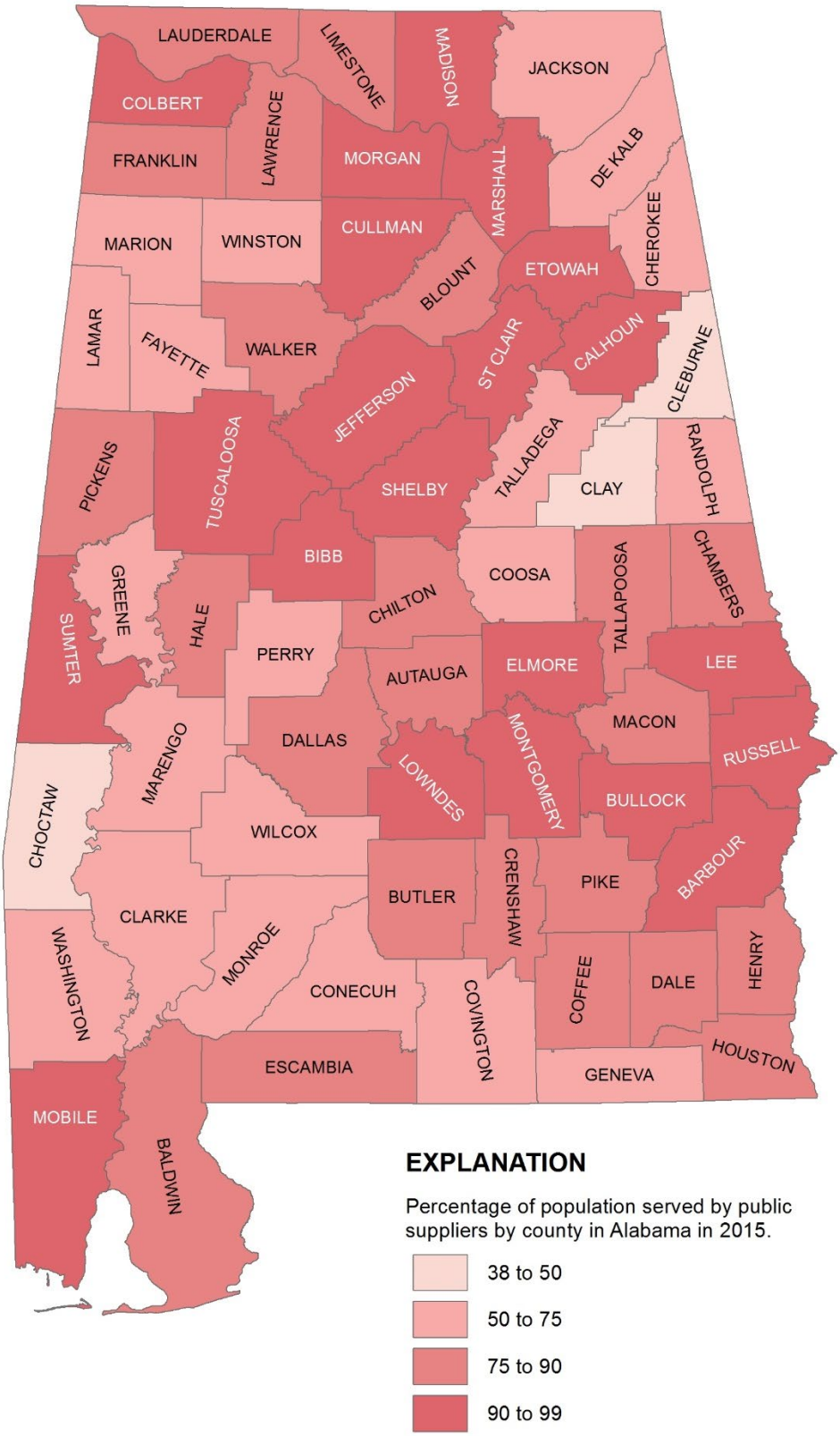


Figure 19. Map of public-supply withdrawals by source and county in Alabama in 2015, in MGD.

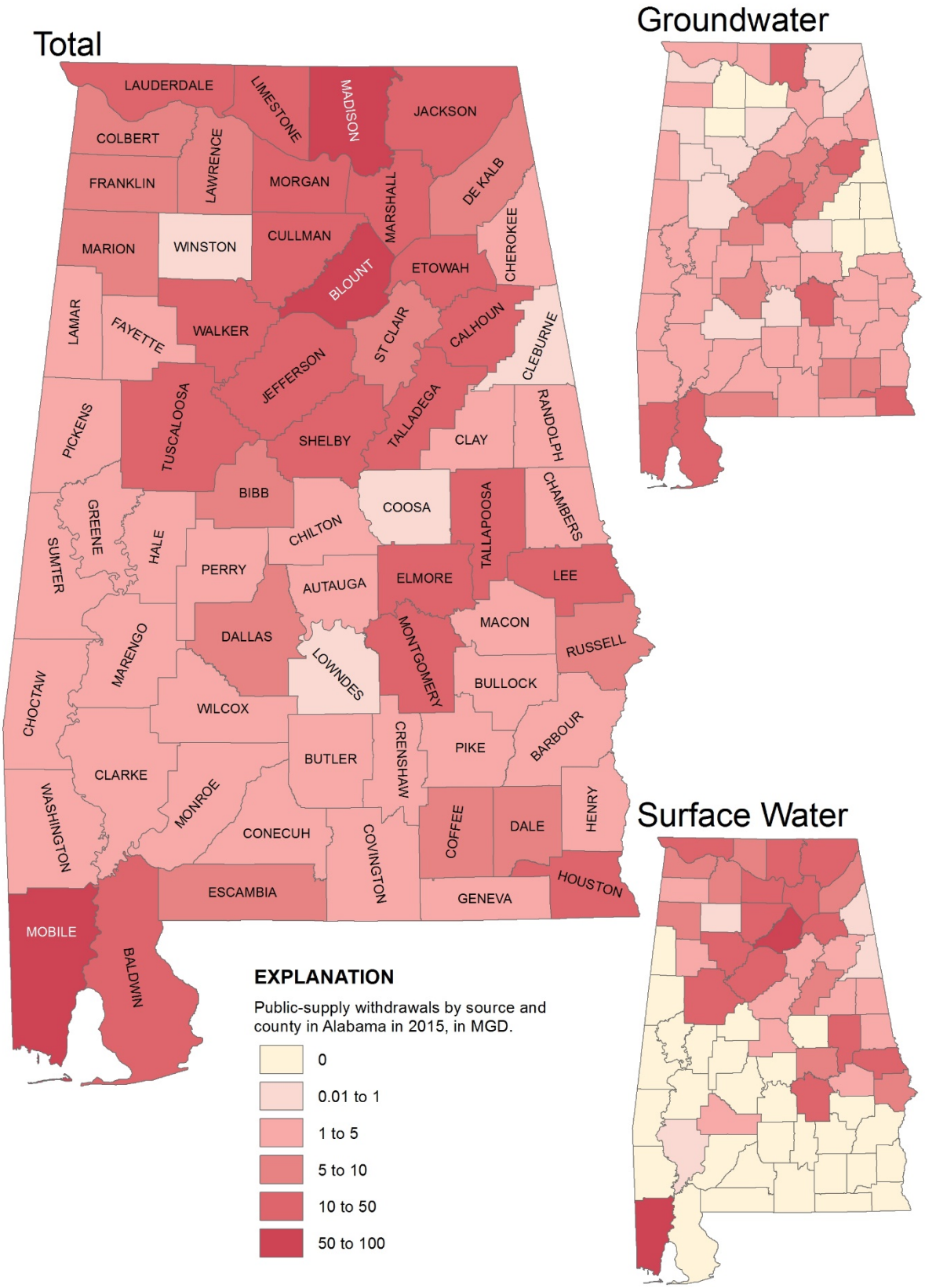


Figure 20. Map of Alabama cities with population of 10,000 and greater, 2018.

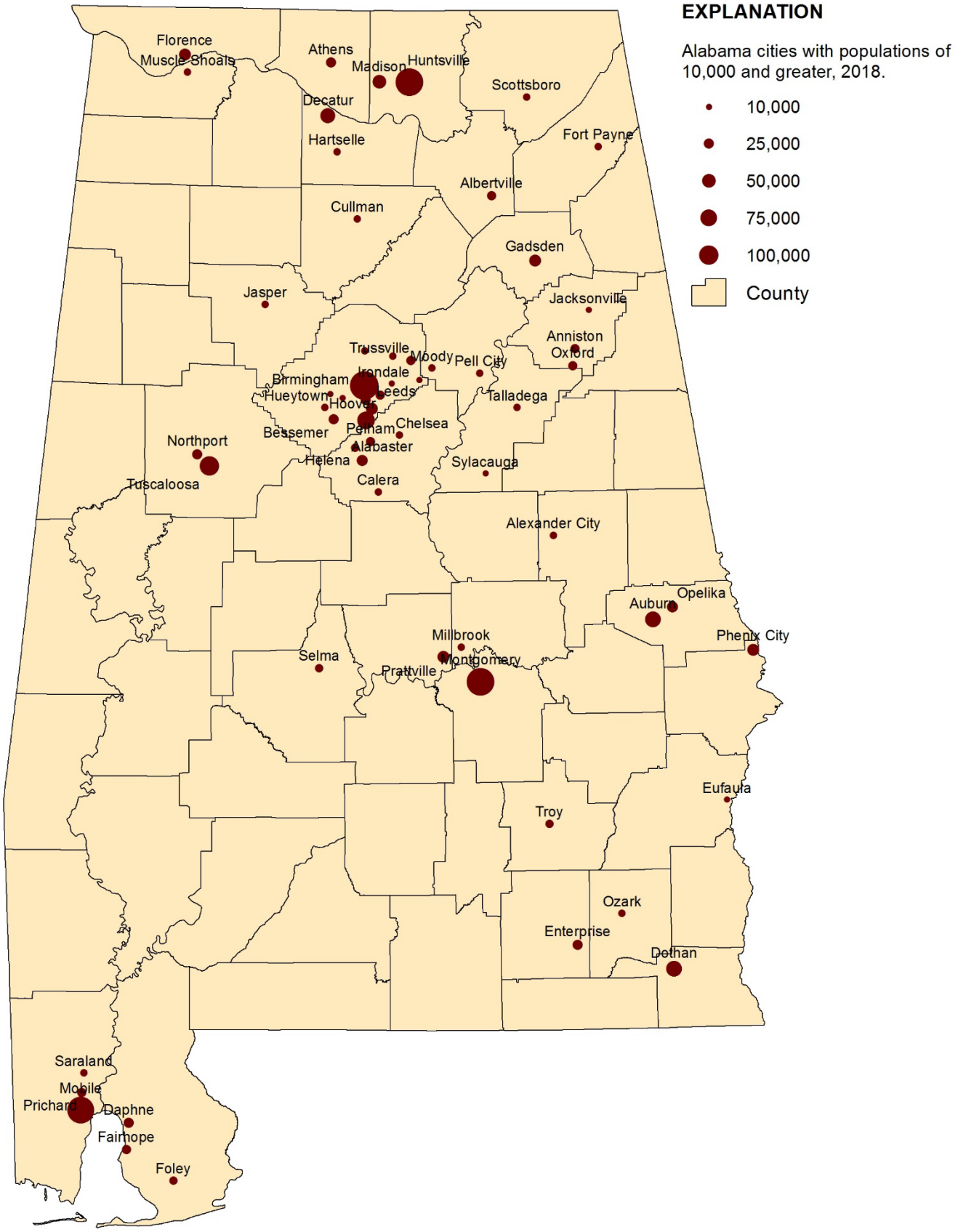


Figure 21. Public-supply water withdrawals by rank and percentile for counties in Alabama in 2015, in MGD.

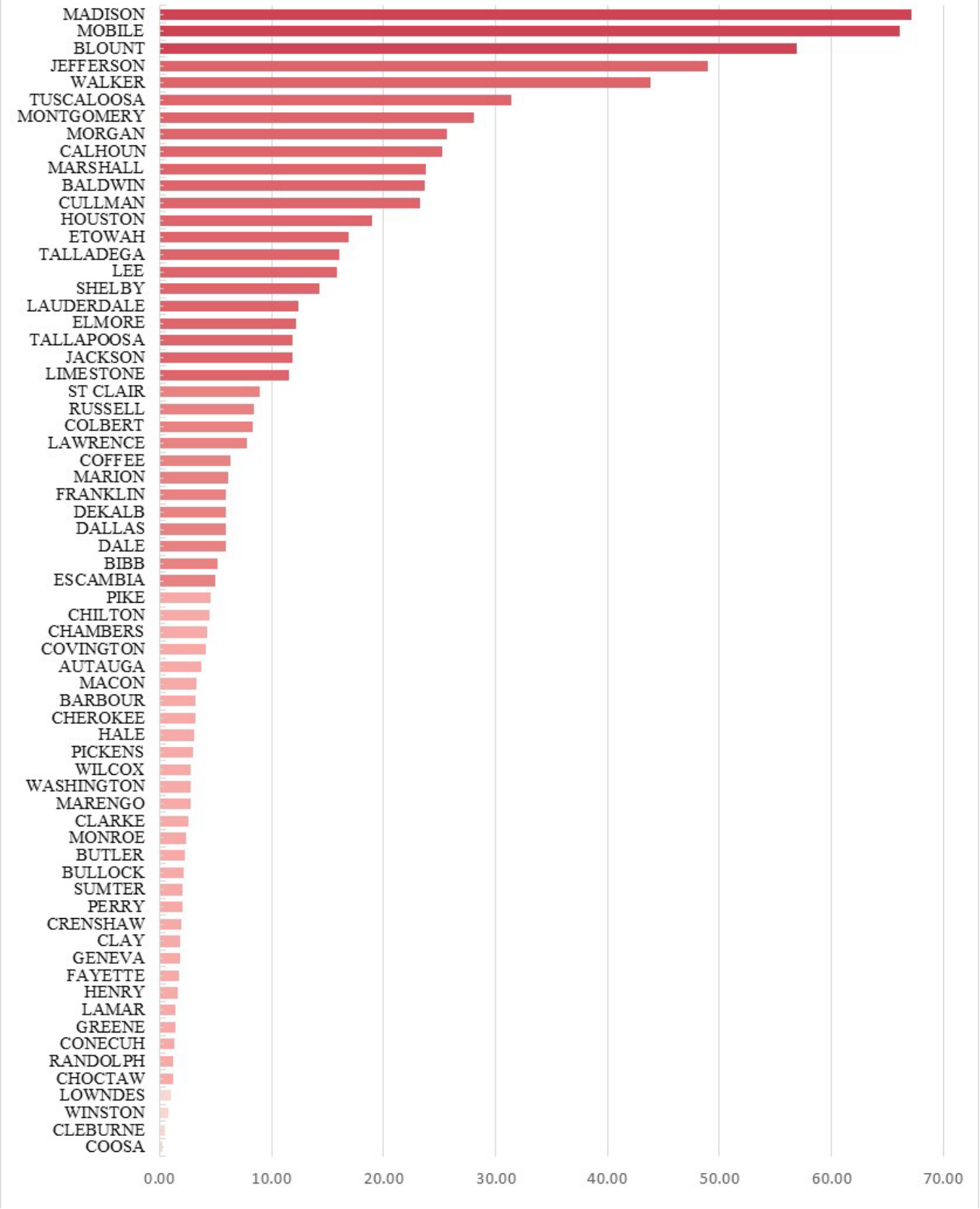


Figure 22. Map of public-supply withdrawals by source and hydrologic subbasin in Alabama in 2015, in MGD.

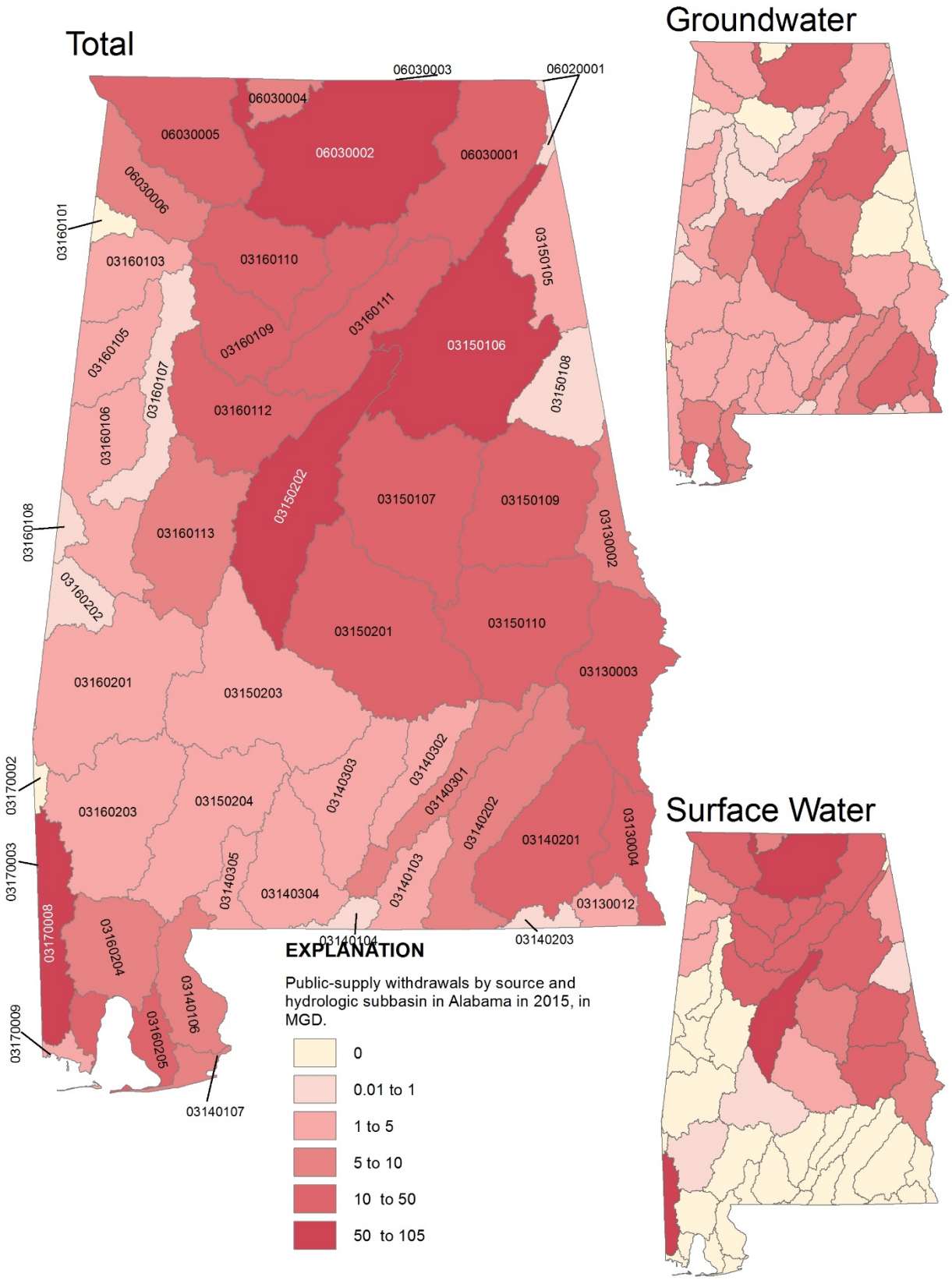


Figure 23. Public-supply water withdrawals by rank and percentile for subbasins in Alabama in 2015, in MGD.

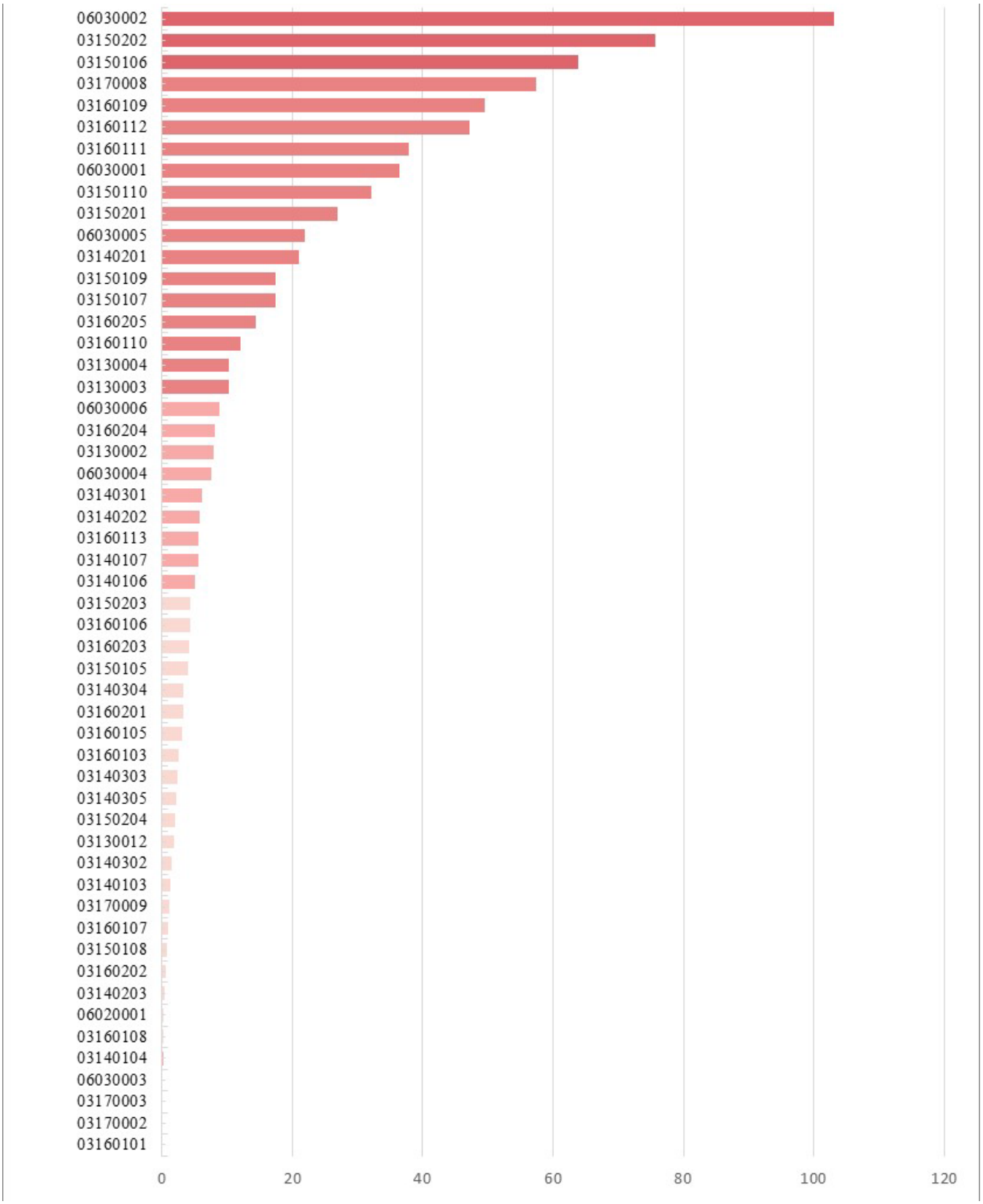


Table 19. Public-supply withdrawals by source and county in Alabama in 2015, in MGD.

		Population served by public supply		Withdrawals by source in million gallons per day			Gross public supply per capita use, in gallons per day	Residential Deliveries, in million gallons per day
County	Population	Total	Percentage	Groundwater	Surface water	Total		
AUTAUGA	55,347	48,998	89%	3.65	0.00	3.65	75	2.71
BALDWIN	203,709	174,907	86%	23.70	0.00	23.70	136	12.78
BARBOUR	26,489	24,587	93%	3.23	0.00	3.23	131	1.42
BIBB	22,583	20,947	93%	5.18	0.00	5.18	247	1.81
BLOUNT	57,673	44,815	78%	2.78	54.09	56.87	1,269	2.79
BULLOCK	10,696	9,958	93%	2.11	0.00	2.11	212	0.89
BUTLER	20,154	16,806	83%	2.28	0.00	2.28	136	1.35
CALHOUN	115,620	109,438	95%	22.47	2.78	25.25	231	7.52
CHAMBERS	34,123	25,783	76%	0.00	4.20	4.20	163	1.74
CHEROKEE	25,859	17,746	69%	2.43	0.77	3.21	181	1.08
CHILTON	43,943	34,630	79%	2.51	1.89	4.40	127	2.23
CHOCTAW	13,170	4,998	38%	1.21	0.00	1.21	242	0.25
CLARKE	24,675	17,759	72%	2.50	0.08	2.58	145	1.19
CLAY	13,555	5,970	44%	0.00	1.78	1.78	298	0.28
CLEBURNE	15,018	6,613	44%	0.00	0.49	0.49	73	0.61
COFFEE	51,211	42,461	83%	6.35	0.00	6.35	149	3.53
COLBERT	54,354	50,414	93%	0.60	7.67	8.27	164	4.27
CONECUH	12,672	6,988	55%	1.32	0.00	1.32	189	0.41
COOSA	10,724	5,839	54%	0.27	0.00	0.27	46	0.39
COVINGTON	37,835	24,183	64%	4.09	0.00	4.09	169	1.81
CRENSHAW	13,963	10,616	76%	1.94	0.00	1.94	182	0.83
CULLMAN	82,005	79,424	97%	0.31	22.98	23.29	293	5.73
DALE	49,565	40,468	82%	5.90	0.00	5.90	146	3.05
DALLAS	41,131	31,711	77%	5.91	0.00	5.91	186	2.23
DEKALB	71,130	51,765	73%	0.33	5.59	5.92	114	3.39
ELMORE	81,468	75,870	93%	2.68	9.51	12.20	161	5.02
ESCAMBIA	37,789	30,839	82%	5.01	0.00	5.01	162	2.22
ETOWAH	103,057	99,052	96%	4.12	12.73	16.85	170	6.60
FAYETTE	16,759	9,743	58%	0.05	1.65	1.70	174	0.68
FRANKLIN	31,696	25,004	79%	1.05	4.89	5.94	238	1.40
GENEVA	26,777	15,541	58%	1.77	0.00	1.77	114	0.94
GREENE	8,479	5,778	68%	1.39	0.00	1.39	241	0.35
HALE	15,068	12,160	81%	3.10	0.00	3.10	255	1.38
HENRY	17,221	13,297	77%	1.66	0.00	1.66	125	0.81

Table 19. Public-supply withdrawals by source and county in Alabama in 2015, in MGD – Continued.

		Population served by public supply		Withdrawals by source in million gallons per day			Gross public supply per capita use, in gallons per day	Residential Deliveries, in million gallons per day
County	Population	Total	Percentage	Groundwater	Surface water	Total		
HOUSTON	104,173	84,623	81%	18.96	0.00	18.96	224	4.98
JACKSON	52,419	38,802	74%	0.51	11.31	11.81	304	2.61
JEFFERSON	660,367	654,319	99%	7.88	41.09	48.97	75	48.85
LAMAR	13,886	8,668	62%	1.42	0.00	1.42	164	0.49
LAUDERDALE	92,596	77,817	84%	1.85	10.54	12.39	159	6.17
LAWRENCE	33,115	27,629	83%	0.00	7.73	7.73	280	1.78
LEE	156,993	147,603	94%	2.84	13.00	15.84	107	9.81
LIMESTONE	91,663	78,965	86%	3.86	7.67	11.53	146	5.42
LOWNDES	10,458	9,713	93%	0.95	0.00	0.95	97	0.76
MACON	19,105	16,294	85%	1.37	1.95	3.32	204	1.16
MADISON	353,089	342,658	97%	29.01	38.20	67.20	196	30.95
MARENGO	20,028	11,563	58%	2.77	0.00	2.77	239	0.72
MARION	30,168	20,279	67%	0.76	5.30	6.06	299	1.10
MARSHALL	94,725	88,680	94%	3.31	20.45	23.76	268	9.05
MOBILE	415,395	377,074	91%	13.49	52.64	66.13	175	35.57
MONROE	21,673	15,775	73%	2.30	0.00	2.30	146	1.03
MONTGOMERY	226,519	221,784	98%	13.19	14.85	28.04	126	14.30
MORGAN	119,565	115,544	97%	0.00	25.61	25.61	222	8.81
PERRY	9,652	5,432	56%	2.02	0.00	2.02	372	0.43
PICKENS	20,864	16,578	79%	3.01	0.00	3.01	181	1.33
PIKE	33,046	29,067	88%	4.58	0.00	4.58	158	2.33
RANDOLPH	22,696	11,912	52%	0.00	1.22	1.22	103	0.64
RUSSELL	59,660	55,434	93%	1.59	6.87	8.46	153	4.90
SHELBY	208,713	199,698	96%	11.92	2.30	14.22	71	12.85
ST CLAIR	87,074	80,226	92%	6.35	2.58	8.93	111	4.63
SUMTER	13,103	11,919	91%	2.06	0.00	2.06	173	0.71
TALLADEGA	80,862	60,455	75%	9.39	6.61	16.00	265	5.53
TALLAPOOSA	40,844	34,761	85%	0.00	11.88	11.88	342	2.32
TUSCALOOSA	203,976	192,500	94%	0.69	30.75	31.45	163	12.29
WALKER	65,294	57,701	88%	0.46	43.38	43.84	760	3.52
WASHINGTON	16,804	9,159	55%	2.80	0.00	2.80	306	0.60
WILCOX	11,059	6,592	60%	0.84	1.96	2.80	425	0.35
WINSTON	23,877	15,253	64%	0.00	0.81	0.81	53	1.33
TOTAL	**4,858,979**	**4,319,584**		**272.07**	**489.80**	**761.87**		**320.96**
AVERAGE			**89%**				**176**	

Table 20. Monthly public-supply groundwater withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
AUTAUGA	3.14	2.79	2.73	2.98	4.03	4.27	4.39	4.66	4.34	3.74	3.34	3.31	3.65
BALDWIN	18.47	18.82	19.68	21.71	27.73	28.82	29.95	27.45	26.36	24.19	20.95	19.91	23.70
BARBOUR	3.19	3.06	2.92	3.17	3.32	3.47	3.55	3.43	3.23	3.20	3.15	3.04	3.23
BIBB	4.90	5.01	4.82	4.97	5.24	5.53	5.51	5.40	5.37	5.35	5.13	4.96	5.18
BLOUNT	3.00	2.84	3.05	2.94	2.62	2.93	3.02	2.52	2.57	2.65	2.60	2.63	2.78
BULLOCK	2.19	2.10	2.03	2.04	2.03	2.11	2.28	2.21	2.08	2.07	2.11	2.08	2.11
BUTLER	2.38	2.10	2.35	2.17	2.61	2.38	2.42	2.40	2.26	2.19	2.11	2.02	2.28
CALHOUN	22.04	22.62	21.48	20.84	23.01	24.19	24.84	24.92	22.75	21.71	21.02	20.18	22.47
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	2.39	2.13	2.14	2.18	2.37	2.70	2.91	2.68	2.52	2.35	2.37	2.43	2.43
CHILTON	2.68	2.54	2.49	2.12	2.58	2.86	2.48	2.37	2.63	2.63	2.35	2.40	2.51
CHOCTAW	1.44	1.22	1.17	1.15	1.29	1.17	1.21	1.24	1.13	1.13	1.19	1.17	1.21
CLARKE	2.60	2.48	2.46	2.73	2.45	2.56	2.62	2.43	2.53	2.48	2.38	2.30	2.50
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	4.95	4.70	4.81	5.84	7.29	8.29	8.11	7.87	7.28	6.27	5.50	5.13	6.35
COLBERT	0.69	0.61	0.58	0.58	0.65	0.68	0.67	0.57	0.55	0.55	0.52	0.56	0.60
CONECUH	1.11	1.08	1.07	2.13	2.25	1.29	1.27	1.23	1.19	1.01	1.08	1.11	1.32
COOSA	0.29	0.26	0.23	0.32	0.26	0.27	0.26	0.29	0.25	0.27	0.28	0.24	0.27
COVINGTON	3.34	3.87	3.76	3.90	4.51	4.70	4.77	4.57	4.25	3.99	3.68	3.75	4.09
CRENSHAW	1.94	1.69	1.67	1.65	1.95	2.04	2.07	2.25	2.11	2.04	1.87	1.93	1.94
CULLMAN	0.39	0.44	0.36	0.25	0.25	0.30	0.33	0.33	0.31	0.28	0.28	0.25	0.31
DALE	5.46	5.43	5.03	5.86	6.95	6.73	7.17	6.83	6.36	4.74	4.23	5.95	5.90
DALLAS	5.69	5.65	5.84	5.75	5.69	6.16	6.39	6.35	6.21	6.08	5.10	6.03	5.91
DEKALB	0.32	0.33	0.33	0.32	0.35	0.35	0.33	0.33	0.34	0.32	0.32	0.31	0.33
ELMORE	2.43	2.11	2.90	2.79	3.49	2.78	2.73	2.83	2.81	2.44	2.38	2.47	2.68
ESCAMBIA	4.95	4.61	4.39	4.80	4.92	5.57	5.01	5.51	5.46	4.98	4.93	4.92	5.01
ETOWAH	3.93	4.04	4.00	3.99	4.29	4.57	4.65	4.45	4.19	4.01	3.70	3.59	4.12
FAYETTE	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.05	0.05	0.05	0.05
FRANKLIN	1.04	1.05	1.02	1.06	1.10	1.12	1.16	1.12	1.04	0.99	0.93	1.00	1.05
GENEVA	1.62	1.77	1.57	1.74	1.88	2.03	1.93	1.96	1.90	1.76	1.59	1.56	1.77
GREENE	1.38	1.29	1.22	1.40	1.38	1.37	1.56	1.48	1.45	1.37	1.38	1.43	1.39
HALE	3.04	3.12	3.10	2.95	3.03	3.15	3.14	3.28	3.09	3.04	3.12	3.11	3.10
HENRY	1.54	1.52	1.51	1.61	2.01	1.89	1.91	1.86	1.65	1.55	1.45	1.42	1.66

Table 20 Monthly public-supply groundwater withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
HOUSTON	16.08	16.74	19.43	19.44	19.28	19.79	20.95	20.05	20.62	18.10	16.89	19.93	18.96
JACKSON	0.56	0.51	0.44	0.45	0.51	0.51	0.50	0.50	0.51	0.52	0.50	0.56	0.51
JEFFERSON	8.53	7.24	7.17	7.46	9.46	8.30	8.52	8.43	7.19	7.39	6.28	8.53	7.88
LAMAR	1.42	1.38	1.39	1.37	1.46	1.51	1.53	1.50	1.41	1.39	1.32	1.32	1.42
LAUDERDALE	1.76	1.85	1.83	1.80	1.85	1.95	1.96	1.94	1.88	1.75	1.79	1.82	1.85
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEE	2.82	2.81	2.75	2.71	2.98	3.01	3.14	3.09	3.00	2.88	2.62	2.27	2.84
LIMESTONE	4.57	3.50	3.67	4.23	4.47	3.92	3.80	3.91	3.62	3.46	3.76	3.32	3.86
LOWNDES	0.97	0.86	0.89	0.90	0.95	0.95	0.98	1.01	0.94	0.97	0.97	0.94	0.95
MACON	2.67	0.45	0.53	0.62	0.39	0.45	1.42	1.64	2.27	2.28	1.20	2.43	1.37
MADISON	26.94	28.26	26.92	26.38	30.29	32.39	35.89	31.53	30.24	27.37	25.53	26.23	29.01
MARENGO	2.74	2.69	2.72	2.70	2.73	2.72	2.80	2.92	2.89	2.92	2.70	2.69	2.77
MARION	0.74	0.76	0.87	0.75	0.72	0.78	0.78	0.78	0.75	0.74	0.74	0.73	0.76
MARSHALL	3.21	3.17	3.02	3.15	3.58	3.50	3.71	3.53	3.36	2.83	3.36	3.26	3.31
MOBILE	13.01	12.20	12.83	13.01	14.44	14.93	14.57	14.44	14.34	13.55	12.22	12.17	13.49
MONROE	2.28	2.66	2.26	2.19	2.21	2.41	2.46	2.33	2.28	2.29	2.09	2.22	2.30
MONTGOMERY	17.67	7.94	13.46	13.91	13.24	13.85	13.46	14.59	14.46	12.75	11.33	11.15	13.19
MORGAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERRY	2.75	1.66	1.62	1.45	1.71	1.61	2.11	2.49	2.46	2.64	2.01	1.72	2.02
PICKENS	2.59	2.40	3.09	2.54	2.72	2.91	3.82	3.43	3.42	3.29	2.98	2.85	3.01
PIKE	4.26	3.99	3.91	4.06	4.85	5.23	5.47	5.71	5.05	4.56	4.07	3.80	4.58
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	2.45	1.54	1.44	1.43	1.53	1.68	1.67	1.55	1.59	1.39	1.37	1.40	1.59
SHELBY	11.03	10.80	10.39	10.95	12.24	13.07	13.16	13.40	13.25	12.81	11.19	10.74	11.92
ST CLAIR	6.28	6.60	6.10	5.74	6.42	7.03	7.00	6.99	6.21	5.90	5.91	6.04	6.35
SUMTER	1.95	1.97	1.91	1.99	1.93	2.03	2.08	2.23	2.22	2.09	2.21	2.10	2.06
TALLADEGA	9.05	8.85	9.07	9.88	9.09	9.04	9.26	9.74	9.67	9.74	9.91	9.32	9.39
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	0.00
TUSCALOOSA	0.63	0.70	0.62	0.61	0.75	0.78	0.81	0.77	0.70	0.68	0.63	0.64	0.69
WALKER	0.23	0.21	0.20	0.21	0.20	0.24	0.21	0.24	1.06	1.02	0.94	0.74	0.46
WASHINGTON	2.67	4.29	2.62	3.22	3.03	2.63	2.73	2.82	2.59	2.53	2.32	2.27	2.80
WILCOX	0.95	0.92	0.86	0.86	0.85	0.82	0.88	0.82	0.83	0.79	0.72	0.75	0.84
WINSTON	0.00	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	**263.35**	**248.27**	**252.77**	**259.97**	**285.45**	**294.34**	**304.37**	**297.23**	**287.02**	**268.06**	**248.63**	**253.14**	**272.07**

Table 21. Monthly public-supply surface-water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
AUTAUGA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	52.49	52.78	51.42	51.67	56.84	54.99	52.49	54.17	53.48	55.74	55.57	57.30	54.09
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALHOUN	3.19	3.05	2.63	2.85	2.97	2.97	3.13	3.51	3.33	2.03	1.80	1.95	2.78
CHAMBERS	3.48	3.65	3.77	3.70	3.89	4.44	4.73	4.87	4.93	4.45	4.21	4.28	4.20
CHEROKEE	0.72	0.71	0.70	0.73	0.81	0.90	0.88	0.83	0.81	0.79	0.71	0.71	0.77
CHILTON	1.83	1.76	1.65	1.68	1.81	1.93	2.00	2.11	2.06	2.00	1.93	1.91	1.89
CHOCTAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLARKE	0.10	0.12	0.01	0.03	0.12	0.06	0.03	0.16	0.11	0.13	0.04	0.05	0.08
CLAY	1.76	1.88	1.98	1.87	1.75	1.90	1.80	1.57	1.64	1.72	1.70	1.79	1.78
CLEBURNE	0.46	0.46	0.46	0.45	0.50	0.52	0.54	0.55	0.52	0.48	0.45	0.43	0.49
COFFEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLBERT	7.81	7.71	7.34	7.01	7.75	7.48	8.10	7.82	7.89	7.85	7.57	7.63	7.67
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
COVINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	35.01	17.21	12.99	19.56	27.55	27.66	24.86	20.98	21.38	25.85	22.88	19.21	22.98
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEKALB	5.00	4.80	4.70	4.60	5.27	6.64	6.70	7.23	6.54	6.09	4.95	4.50	5.59
ELMORE	8.68	8.67	8.72	9.19	10.17	10.43	10.30	10.44	10.11	9.32	8.94	9.11	9.51
ESCAMBIA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ETOWAH	12.42	12.68	12.32	12.07	12.95	13.86	13.66	13.65	12.83	12.31	12.21	11.84	12.73
FAYETTE	1.69	1.69	1.56	1.55	1.73	1.81	1.77	1.72	1.58	1.62	1.57	1.46	1.65
FRANKLIN	4.64	5.31	5.35	4.85	4.77	5.16	5.16	4.94	4.86	4.48	4.39	4.79	4.89
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 21. Monthly public-supply surface-water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
HOUSTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JACKSON	11.24	9.47	11.10	10.85	11.87	12.66	12.53	12.22	11.65	10.59	10.58	10.76	11.31
JEFFERSON	25.77	41.46	41.59	38.55	43.73	48.35	48.89	47.62	44.68	38.91	38.39	35.36	41.09
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	9.91	10.10	9.92	9.83	10.91	11.59	11.67	11.26	11.31	10.61	10.01	9.33	10.54
LAWRENCE	7.72	7.85	7.53	7.43	7.85	8.51	8.30	7.92	7.85	7.57	7.09	7.17	7.73
LEE	11.04	11.30	10.83	11.87	13.81	14.63	15.54	15.95	14.80	13.35	11.93	10.85	13.00
LIMESTONE	6.94	7.11	6.83	6.78	7.43	8.40	8.60	8.31	8.29	8.11	7.67	7.51	7.67
LOWNDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACON	1.99	1.93	1.95	1.83	1.84	2.02	2.19	2.01	1.90	1.88	2.02	1.80	1.95
MADISON	30.55	29.91	28.60	28.43	40.59	49.45	51.19	48.29	46.45	40.88	34.26	29.18	38.20
MARENGO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARION	5.57	5.41	5.51	5.10	5.29	5.52	5.58	5.31	5.27	5.05	4.94	5.00	5.30
MARSHALL	19.68	20.05	19.27	19.10	20.79	22.29	22.38	22.33	21.72	19.56	18.80	19.44	20.45
MOBILE	51.06	47.87	49.68	51.98	55.62	58.12	49.29	56.91	54.49	53.33	52.82	50.32	52.64
MONROE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MONTGOMERY	14.00	13.90	14.00	14.00	16.00	17.40	17.80	16.10	17.60	13.40	12.60	11.40	14.85
MORGAN	24.61	24.64	23.29	23.25	26.62	28.69	29.32	28.16	26.40	25.17	24.09	22.98	25.61
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	1.07	1.14	1.11	1.14	1.29	1.32	1.35	1.30	1.28	1.24	1.29	1.14	1.22
RUSSELL	6.32	6.11	6.13	6.24	7.47	7.60	8.21	7.85	7.49	6.84	6.09	6.03	6.87
SHELBY	1.79	1.47	1.87	1.84	3.38	3.42	2.57	2.87	3.16	2.03	1.59	1.52	2.30
ST CLAIR	2.68	2.63	2.58	2.43	2.59	2.53	2.50	2.67	2.78	2.73	2.43	2.44	2.58
SUMTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TALLADEGA	6.12	5.75	5.30	5.72	6.48	8.01	8.19	7.80	6.91	6.68	6.34	6.01	6.61
TALLAPOOSA	11.56	10.44	11.25	10.07	12.16	12.52	13.05	13.09	11.80	13.32	11.82	11.34	11.88
TUSCALOOSA	28.52	28.09	27.00	28.28	31.37	35.23	34.52	34.58	34.66	32.86	27.71	26.06	30.75
WALKER	54.03	53.23	51.39	40.32	37.96	47.51	51.12	47.90	40.43	35.18	31.43	30.56	43.38
WASHINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WILCOX	2.13	1.98	1.98	2.00	1.94	2.02	2.23	1.99	1.90	1.72	1.67	2.00	1.96
WINSTON	0.91	0.86	0.79	0.75	0.79	0.85	0.88	0.92	0.81	0.83	0.77	0.59	0.81
TOTAL	**474.48**	**465.15**	**455.06**	**449.57**	**506.64**	**549.35**	**544.05**	**537.91**	**515.68**	**486.68**	**455.23**	**435.74**	**489.80**

Table 22. Monthly public-supply total water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
AUTAUGA	3.14	2.79	2.73	2.98	4.03	4.27	4.39	4.66	4.34	3.74	3.34	3.31	3.65
BALDWIN	18.47	18.82	19.68	21.71	27.73	28.82	29.95	27.45	26.36	24.19	20.95	19.91	23.70
BARBOUR	3.19	3.06	2.92	3.17	3.32	3.47	3.55	3.43	3.23	3.20	3.15	3.04	3.23
BIBB	4.90	5.01	4.82	4.97	5.24	5.53	5.51	5.40	5.37	5.35	5.13	4.96	5.18
BLOUNT	55.50	55.62	54.46	54.62	59.45	57.92	55.52	56.70	56.05	58.39	58.17	59.93	56.87
BULLOCK	2.19	2.10	2.03	2.04	2.03	2.11	2.28	2.21	2.08	2.07	2.11	2.08	2.11
BUTLER	2.38	2.10	2.35	2.17	2.61	2.38	2.42	2.40	2.26	2.19	2.11	2.02	2.28
CALHOUN	25.23	25.68	24.11	23.69	25.99	27.15	27.97	28.43	26.08	23.74	22.82	22.13	25.25
CHAMBERS	3.48	3.65	3.77	3.70	3.89	4.44	4.73	4.87	4.93	4.45	4.21	4.28	4.20
CHEROKEE	3.11	2.84	2.84	2.91	3.17	3.60	3.79	3.51	3.32	3.14	3.08	3.14	3.21
CHILTON	4.51	4.29	4.14	3.80	4.39	4.79	4.48	4.48	4.69	4.62	4.28	4.31	4.40
CHOCTAW	1.44	1.22	1.17	1.15	1.29	1.17	1.21	1.24	1.13	1.13	1.19	1.17	1.21
CLARKE	2.70	2.60	2.47	2.77	2.57	2.62	2.65	2.58	2.64	2.62	2.42	2.34	2.58
CLAY	1.76	1.88	1.98	1.87	1.75	1.90	1.80	1.57	1.64	1.72	1.70	1.79	1.78
CLEBURNE	0.46	0.46	0.46	0.45	0.50	0.52	0.54	0.55	0.52	0.48	0.45	0.43	0.49
COFFEE	4.95	4.70	4.81	5.84	7.29	8.29	8.11	7.87	7.28	6.27	5.50	5.13	6.35
COLBERT	8.49	8.32	7.92	7.59	8.40	8.16	8.77	8.39	8.45	8.40	8.09	8.19	8.27
CONECUH	1.11	1.08	1.07	2.13	2.25	1.29	1.27	1.23	1.19	1.01	1.08	1.11	1.32
COOSA	0.29	0.26	0.23	0.32	0.26	0.27	0.26	0.29	0.25	0.27	0.28	0.24	0.27
COVINGTON	3.34	3.87	3.76	3.90	4.51	4.70	4.77	4.57	4.25	3.99	3.68	3.75	4.09
CRENSHAW	1.94	1.69	1.67	1.65	1.95	2.04	2.07	2.25	2.11	2.04	1.87	1.93	1.94
CULLMAN	35.41	17.65	13.35	19.81	27.80	27.96	25.19	21.30	21.69	26.12	23.16	19.47	23.29
DALE	5.46	5.43	5.03	5.86	6.95	6.73	7.17	6.83	6.36	4.74	4.23	5.95	5.90
DALLAS	5.69	5.65	5.84	5.75	5.69	6.16	6.39	6.35	6.21	6.08	5.10	6.03	5.91
DEKALB	5.32	5.13	5.03	4.92	5.62	6.99	7.02	7.56	6.88	6.42	5.27	4.81	5.92
ELMORE	11.11	10.79	11.61	11.98	13.66	13.21	13.04	13.28	12.92	11.75	11.32	11.58	12.20
ESCAMBIA	4.95	4.61	4.39	4.80	4.92	5.57	5.01	5.51	5.46	4.98	4.93	4.92	5.01
ETOWAH	16.35	16.72	16.32	16.06	17.24	18.43	18.31	18.10	17.02	16.32	15.91	15.42	16.85
FAYETTE	1.74	1.75	1.62	1.61	1.78	1.87	1.83	1.77	1.63	1.66	1.62	1.51	1.70
FRANKLIN	5.68	6.35	6.36	5.91	5.87	6.27	6.32	6.06	5.90	5.48	5.32	5.79	5.94
GENEVA	1.62	1.77	1.57	1.74	1.88	2.03	1.93	1.96	1.90	1.76	1.59	1.56	1.77
GREENE	1.38	1.29	1.22	1.40	1.38	1.37	1.56	1.48	1.45	1.37	1.38	1.43	1.39
HALE	3.04	3.12	3.10	2.95	3.03	3.15	3.14	3.28	3.09	3.04	3.12	3.11	3.10
HENRY	1.54	1.52	1.51	1.61	2.01	1.89	1.91	1.86	1.65	1.55	1.45	1.42	1.66

Table 22. Monthly public-supply total water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
HOUSTON	16.08	16.74	19.43	19.44	19.28	19.79	20.95	20.05	20.62	18.10	16.89	19.93	18.96
JACKSON	11.79	9.98	11.55	11.30	12.38	13.16	13.03	12.72	12.17	11.12	11.08	11.32	11.81
JEFFERSON	34.30	48.70	48.76	46.01	53.19	56.65	57.41	56.05	51.86	46.29	44.67	43.89	48.97
LAMAR	1.42	1.38	1.39	1.37	1.46	1.51	1.53	1.50	1.41	1.39	1.32	1.32	1.42
LAUDERDALE	11.67	11.95	11.75	11.63	12.76	13.54	13.63	13.20	13.19	12.36	11.80	11.15	12.39
LAWRENCE	7.72	7.85	7.53	7.43	7.85	8.51	8.30	7.92	7.85	7.57	7.09	7.17	7.73
LEE	13.86	14.10	13.57	14.57	16.79	17.64	18.68	19.05	17.80	16.23	14.55	13.12	15.84
LIMESTONE	11.51	10.61	10.50	11.01	11.91	12.33	12.40	12.23	11.91	11.58	11.42	10.83	11.53
LOWNDES	0.97	0.86	0.89	0.90	0.95	0.95	0.98	1.01	0.94	0.97	0.97	0.94	0.95
MACON	4.66	2.38	2.48	2.45	2.24	2.46	3.60	3.65	4.17	4.16	3.22	4.23	3.32
MADISON	57.49	58.16	55.52	54.81	70.88	81.83	87.08	79.82	76.69	68.25	59.78	55.40	67.20
MARENGO	2.74	2.69	2.72	2.70	2.73	2.72	2.80	2.92	2.89	2.92	2.70	2.69	2.77
MARION	6.31	6.17	6.38	5.85	6.02	6.30	6.37	6.09	6.02	5.79	5.68	5.73	6.06
MARSHALL	22.89	23.22	22.29	22.24	24.37	25.78	26.09	25.87	25.08	22.39	22.17	22.70	23.76
MOBILE	64.07	60.07	62.51	64.99	70.06	73.05	63.86	71.35	68.83	66.88	65.04	62.49	66.13
MONROE	2.28	2.66	2.26	2.19	2.21	2.41	2.46	2.33	2.28	2.29	2.09	2.22	2.30
MONTGOMERY	31.67	21.84	27.46	27.91	29.24	31.25	31.26	30.69	32.06	26.15	23.93	22.55	28.04
MORGAN	24.61	24.64	23.29	23.25	26.62	28.69	29.32	28.16	26.40	25.17	24.09	22.98	25.61
PERRY	2.75	1.66	1.62	1.45	1.71	1.61	2.11	2.49	2.46	2.64	2.01	1.72	2.02
PICKENS	2.59	2.40	3.09	2.54	2.72	2.91	3.82	3.43	3.42	3.29	2.98	2.85	3.01
PIKE	4.26	3.99	3.91	4.06	4.85	5.23	5.47	5.71	5.05	4.56	4.07	3.80	4.58
RANDOLPH	1.07	1.14	1.11	1.14	1.29	1.32	1.35	1.30	1.28	1.24	1.29	1.14	1.22
RUSSELL	8.77	7.64	7.58	7.67	9.00	9.27	9.88	9.41	9.08	8.22	7.45	7.43	8.46
SHELBY	12.82	12.27	12.26	12.79	15.61	16.48	15.73	16.26	16.41	14.84	12.77	12.26	14.22
ST CLAIR	8.96	9.22	8.67	8.17	9.01	9.56	9.50	9.66	8.99	8.63	8.34	8.48	8.93
SUMTER	1.95	1.97	1.91	1.99	1.93	2.03	2.08	2.23	2.22	2.09	2.21	2.10	2.06
TALLADEGA	15.17	14.60	14.37	15.60	15.57	17.05	17.45	17.54	16.57	16.42	16.25	15.33	16.00
TALLAPOOSA	11.56	10.44	11.25	10.07	12.16	12.52	13.05	13.09	11.80	13.32	11.82	11.34	11.88
TUSCALOOSA	29.15	28.79	27.62	28.89	32.12	36.01	35.32	35.34	35.35	33.54	28.34	26.70	31.45
WALKER	54.26	53.45	51.59	40.53	38.16	47.75	51.33	48.13	41.49	36.20	32.37	31.30	43.84
WASHINGTON	2.67	4.29	2.62	3.22	3.03	2.63	2.73	2.82	2.59	2.53	2.32	2.27	2.80
WILCOX	3.08	2.90	2.84	2.86	2.79	2.84	3.11	2.81	2.74	2.50	2.39	2.75	2.80
WINSTON	0.91	0.86	0.79	0.75	0.79	0.85	0.88	0.92	0.81	0.83	0.77	0.59	0.81
TOTAL	**737.83**	**713.42**	**707.83**	**709.54**	**792.09**	**843.69**	**848.41**	**835.13**	**802.71**	**754.74**	**703.86**	**688.89**	**761.87**

Table 23. Public-supply withdrawals by source and hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Population	Withdrawals by source, in million gallons per day		
		Ground water	Surface water	Total
Apalachicola				
03130002	57,592	0.00	7.98	7.98
03130003	116,236	3.46	6.87	10.33
03130004	34,501	10.35	0.00	10.35
03130012	33,345	1.91	0.00	1.91
Subtotal	*241,674*	*15.72*	*14.85*	*30.57*
Chocawhatchee-Escambia				
03140103	20,986	1.27	0.00	1.27
03140104	1,735	0.08	0.00	0.08
03140106	37,994	5.06	0.00	5.06
03140107	30,552	5.62	0.00	5.62
03140201	155,888	20.98	0.00	20.98
03140202	51,124	5.83	0.00	5.83
03140203	7,260	0.47	0.00	0.47
03140301	28,478	6.12	0.00	6.12
03140302	12,834	1.60	0.00	1.60
03140303	25,424	2.46	0.00	2.46
03140304	25,098	3.30	0.00	3.30
03140305	18,377	2.19	0.00	2.19
Subtotal	*415,751*	*54.97*	*0.00*	*54.97*
Alabama				
03150105	43,046	2.43	1.65	4.08
03150106	355,811	36.18	27.70	63.88
03150107	146,896	6.97	10.43	17.39
03150108	21,258	0.00	0.88	0.88
03150109	60,010	0.00	17.51	17.51
03150110	188,636	4.87	27.22	32.09
03150201	322,720	26.97	0.00	26.97
03150202	442,529	24.71	51.07	75.77
03150203	27,162	2.48	1.96	4.44
03150204	25,459	2.06	0.00	2.06
Subtotal	*1,633,526*	*106.66*	*138.42*	*245.08*
Mobile-Tombigbee				
03160101	2,698	0.00	0.00	0.00

Table 23. Public-supply withdrawals by source and hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Population	Withdrawals by source, in million gallons per day		
		Ground water	Surface water	Total
03160103	23,219	0.59	2.03	2.62
03160105	20,222	1.50	1.66	3.16
03160106	23,447	4.30	0.00	4.30
03160107	22,212	0.95	0.00	0.95
03160108	1,217	0.26	0.00	0.26
03160109	124,602	0.41	49.09	49.50
03160110	53,091	0.00	12.09	12.09
03160111	309,650	3.13	34.84	37.97
03160112	268,796	0.70	46.42	47.13
03160113	120,588	5.71	0.00	5.71
03160201	33,975	3.28	0.00	3.28
03160202	6,329	0.67	0.00	0.67
03160203	31,676	4.15	0.08	4.23
03160204	180,518	8.22	0.00	8.22
03160205	260,675	14.35	0.00	14.35
Subtotal	*1,482,915*	*48.23*	*146.20*	*194.43*
Pascagoula				
03170002	1,014	0.00	0.00	0.00
03170003	6	0.00	0.00	0.00
03170008	73,337	4.83	52.64	57.47
03170009	12,711	1.16	0.00	1.16
Subtotal	*87,068*	*5.99*	*52.64*	*58.63*
Middle Tennessee-Hiwassee				
06020001	2,747	0.30	0.00	0.30
Subtotal	*2,747*	*0.30*	*0.00*	*0.30*
Middle Tennessee-Elk				
06030001	148,391	3.84	32.53	36.37
06030002	591,583	33.50	69.63	103.13
06030003	4	0.00	0.00	0.00
06030004	17,171	0.00	7.67	7.67
06030005	157,076	1.81	20.11	21.92
06030006	31,851	1.05	7.74	8.79
Subtotal	*946,075*	*40.20*	*137.68*	*177.88*
Total	**4,809,757**	**272.07**	**489.80**	**761.87**

Table 24. Monthly public-supply groundwater withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	4.26	3.33	3.12	3.29	3.63	3.74	3.79	3.55	3.48	3.16	2.99	3.11	3.46
03130004	8.26	8.61	10.44	9.80	9.78	10.72	11.59	11.63	11.50	10.40	9.29	12.03	10.35
03130012	1.93	2.01	2.16	1.97	2.17	2.28	2.10	2.12	2.24	1.69	1.16	1.09	1.91
Subtotal	*14.45*	*13.95*	*15.72*	*15.05*	*15.58*	*16.74*	*17.48*	*17.30*	*17.22*	*15.25*	*13.43*	*16.23*	*15.72*
Chocawhatchee-Escambia													
03140103	1.05	1.05	1.08	1.14	1.30	1.43	1.56	1.47	1.37	1.27	1.24	1.26	1.27
03140104	0.07	0.07	0.06	0.05	0.07	0.10	0.08	0.08	0.09	0.08	0.08	0.10	0.08
03140106	4.86	4.07	4.66	4.67	5.19	5.18	5.41	5.84	5.62	5.53	4.81	4.79	5.06
03140107	3.75	4.16	4.95	4.70	6.70	7.85	8.57	7.01	5.86	5.39	4.39	4.00	5.62
03140201	18.22	18.26	18.38	21.44	23.94	24.02	24.84	23.21	22.55	18.89	18.16	19.63	20.98
03140202	5.48	5.24	5.21	5.21	6.24	6.76	6.27	6.69	6.18	5.98	5.31	5.35	5.83
03140203	0.41	0.40	0.44	0.48	0.48	0.54	0.51	0.54	0.57	0.43	0.42	0.45	0.47
03140301	5.49	6.00	5.67	5.79	6.26	6.54	7.27	7.17	6.31	6.00	5.57	5.32	6.12
03140302	1.72	1.38	1.37	1.42	1.59	1.77	1.83	1.71	1.71	1.57	1.53	1.56	1.60
03140303	2.55	2.29	2.53	2.36	2.81	2.55	2.60	2.57	2.43	2.36	2.27	2.17	2.46
03140304	3.00	2.85	2.67	4.16	4.24	3.52	3.34	3.51	3.41	3.02	2.89	2.96	3.30
03140305	2.07	2.38	2.03	1.95	2.03	2.44	2.05	2.27	2.40	2.12	2.38	2.20	2.19
Subtotal	*48.67*	*48.15*	*49.06*	*53.36*	*60.85*	*62.71*	*64.33*	*62.06*	*58.49*	*52.65*	*49.04*	*49.77*	*54.97*
Alabama													
03150105	2.39	2.13	2.14	2.18	2.37	2.70	2.91	2.68	2.52	2.35	2.37	2.43	2.43
03150106	35.27	36.06	34.72	33.64	36.66	38.48	39.55	39.84	36.76	35.40	34.48	33.20	36.18
03150107	6.55	6.68	6.67	7.67	6.97	7.04	7.11	7.23	7.10	7.09	6.90	6.60	6.97
03150108	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150110	6.14	3.82	3.92	3.98	4.04	4.14	5.26	5.42	5.95	5.81	4.46	5.35	4.87
03150201	30.55	20.02	26.49	26.96	28.19	28.70	28.27	29.82	29.40	26.67	23.65	24.33	26.97
03150202	25.23	22.57	21.79	22.28	26.16	26.36	26.95	26.90	25.48	25.64	22.72	24.13	24.71
03150203	2.78	2.61	2.54	2.38	2.47	2.32	2.35	2.58	2.63	2.51	2.28	2.28	2.48
03150204	2.06	2.01	2.04	1.96	1.99	2.20	2.24	2.12	2.09	2.09	1.88	2.01	2.06
Subtotal	*110.97*	*95.88*	*100.30*	*101.06*	*108.86*	*111.94*	*114.64*	*116.61*	*111.91*	*107.56*	*98.74*	*100.33*	*106.66*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 24. Monthly public-supply groundwater withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.58	0.57	0.72	0.58	0.62	0.63	0.66	0.60	0.58	0.54	0.53	0.50	0.59
03160105	1.49	1.48	1.46	1.44	1.47	1.56	1.55	1.59	1.49	1.49	1.45	1.48	1.50
03160106	3.69	3.56	4.23	3.80	3.98	4.23	5.22	4.89	4.76	4.59	4.41	4.19	4.30
03160107	0.68	0.74	0.67	0.67	0.73	0.78	0.75	0.78	1.55	1.49	1.39	1.16	0.95
03160108	0.27	0.24	0.25	0.23	0.25	0.26	0.26	0.29	0.28	0.26	0.39	0.19	0.26
03160109	0.70	0.75	0.67	0.53	0.25	0.30	0.33	0.33	0.31	0.28	0.28	0.25	0.41
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	3.23	3.01	3.15	3.07	3.05	3.45	3.57	2.98	3.03	3.05	2.99	2.98	3.13
03160112	0.50	0.66	0.60	0.71	0.77	0.87	0.84	0.91	0.82	0.74	0.44	0.59	0.70
03160113	5.58	5.72	5.52	5.46	5.64	5.71	5.91	6.14	5.88	5.83	5.53	5.58	5.71
03160201	3.55	3.14	3.19	3.14	3.33	3.29	3.31	3.33	3.26	3.20	3.24	3.40	3.28
03160202	0.73	0.67	0.64	0.74	0.61	0.62	0.70	0.71	0.68	0.61	0.60	0.68	0.67
03160203	4.19	5.85	4.01	4.82	4.21	3.93	4.10	4.00	3.90	3.82	3.66	3.51	4.15
03160204	7.35	7.90	7.39	7.85	9.07	8.95	9.01	8.86	9.08	8.24	7.33	7.60	8.22
03160205	11.84	11.54	11.69	13.66	16.96	17.50	17.12	16.01	15.79	14.59	13.01	12.26	14.35
Subtotal	*44.39*	*45.82*	*44.20*	*46.71*	*50.95*	*52.08*	*53.32*	*51.42*	*51.41*	*48.73*	*45.26*	*44.36*	*48.23*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	4.77	4.24	4.63	4.71	5.23	5.07	5.12	5.14	5.23	4.92	4.46	4.38	4.83
03170009	1.03	0.96	1.05	1.11	1.19	1.39	1.47	1.26	1.22	1.15	0.99	1.03	1.16
Subtotal	*5.80*	*5.20*	*5.68*	*5.83*	*6.42*	*6.46*	*6.59*	*6.40*	*6.45*	*6.07*	*5.45*	*5.41*	*5.99*
Middle Tennessee-Hiwassee													
06020001	0.29	0.30	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.28	0.28	0.28	0.30
Subtotal	*0.29*	*0.30*	*0.30*	*0.30*	*0.31*	*0.32*	*0.33*	*0.33*	*0.34*	*0.28*	*0.28*	*0.28*	*0.30*
Middle Tennessee-Elk													
06030001	3.79	3.71	3.49	3.62	4.12	4.03	4.21	4.03	3.87	3.39	3.90	3.85	3.84
06030002	32.12	32.39	31.22	31.21	35.40	36.99	40.38	36.11	34.53	31.45	29.89	30.17	33.50
06030003	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030005	1.83	1.82	1.79	1.77	1.87	1.96	1.94	1.84	1.77	1.68	1.71	1.75	1.81
06030006	1.04	1.05	1.02	1.06	1.10	1.12	1.16	1.12	1.04	0.99	0.93	1.00	1.05
Subtotal	*38.79*	*38.97*	*37.51*	*37.66*	*42.48*	*44.09*	*47.68*	*43.11*	*41.21*	*37.51*	*36.43*	*36.77*	*40.20*
Total	**263.35**	**248.27**	**252.77**	**259.97**	**285.45**	**294.34**	**304.37**	**297.23**	**287.02**	**268.06**	**248.63**	**253.14**	**272.07**

Table 25. Monthly public-supply surface-water withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	7.16	7.05	7.20	7.72	7.84	7.82	8.97	8.57	9.54	8.62	8.17	7.07	7.98
03130003	6.32	6.11	6.13	6.24	7.47	7.60	8.21	7.85	7.49	6.84	6.09	6.03	6.87
03130004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*13.48*	*13.15*	*13.34*	*13.96*	*15.31*	*15.42*	*17.17*	*16.42*	*17.03*	*15.45*	*14.26*	*13.11*	*14.85*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140202	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140302	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Alabama													
03150105	1.56	1.55	1.56	1.62	1.69	1.77	1.78	1.76	1.69	1.68	1.54	1.57	1.65
03150106	27.65	27.36	26.03	26.11	28.04	30.08	30.51	30.92	28.55	26.76	25.34	25.04	27.70
03150107	9.64	9.12	9.24	9.44	11.63	12.19	11.38	11.85	11.80	9.98	9.51	9.25	10.43
03150108	0.82	0.86	0.81	0.81	0.96	0.97	0.97	0.98	0.92	0.87	0.81	0.75	0.88
03150109	16.27	15.33	16.61	15.61	18.18	18.71	19.23	18.97	17.78	18.81	17.29	17.12	17.51
03150110	24.69	24.95	24.35	24.72	28.94	32.05	32.58	31.68	30.87	25.69	23.81	22.22	27.22
03150201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150202	49.81	49.77	48.97	49.30	53.87	51.61	49.54	51.22	50.88	53.29	52.91	51.52	51.07
03150203	2.13	1.98	1.98	2.00	1.94	2.02	2.23	1.99	1.90	1.72	1.67	2.00	1.96
03150204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*132.57*	*130.92*	*129.54*	*129.60*	*145.25*	*149.40*	*148.21*	*149.36*	*144.39*	*138.80*	*132.87*	*129.46*	*138.42*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 25. Monthly public-supply surface-water withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	2.20	2.11	2.42	2.01	1.99	1.94	2.05	1.89	1.96	1.92	1.94	1.90	2.03
03160105	1.73	1.72	1.60	1.61	1.75	1.77	1.76	1.73	1.62	1.61	1.60	1.47	1.66
03160106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160107	0.00	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	0.00	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	32.88	48.67	47.67	45.98	50.42	57.81	58.53	56.42	53.93	46.70	45.02	45.16	49.09
03160110	23.97	6.91	3.03	9.51	16.64	15.53	12.75	9.26	10.44	14.75	12.34	9.42	12.09
03160111	45.42	44.41	42.84	32.25	29.90	38.96	42.29	39.07	31.36	26.49	23.33	22.23	34.84
03160112	45.04	44.25	43.02	42.44	47.82	51.18	50.14	50.61	49.21	48.55	43.51	41.12	46.42
03160113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160203	0.10	0.12	0.01	0.03	0.12	0.06	0.03	0.16	0.11	0.13	0.04	0.05	0.08
03160204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*151.34*	*148.19*	*140.59*	*133.82*	*148.65*	*167.24*	*167.54*	*159.14*	*148.62*	*140.15*	*127.78*	*121.35*	*146.20*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	51.06	47.87	49.68	51.98	55.62	58.12	49.29	56.91	54.49	53.33	52.82	50.32	52.64
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
Subtotal	*51.06*	*47.87*	*49.68*	*51.98*	*55.62*	*58.12*	*49.29*	*56.91*	*54.49*	*53.33*	*52.82*	*50.32*	*52.64*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	30.92	29.52	30.38	29.95	33.04	36.78	36.41	36.38	35.21	31.55	29.83	30.20	32.53
06030002	60.89	60.39	57.55	57.28	73.04	84.45	86.83	82.45	78.59	71.77	63.87	57.72	69.63
06030003	0.00	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	6.94	7.11	6.83	6.78	7.43	8.40	8.60	8.31	8.29	8.11	7.67	7.51	7.67
06030005	19.70	19.82	19.12	18.67	20.69	21.27	21.76	21.00	21.32	20.31	19.14	18.57	20.11
06030006	7.58	8.19	8.04	7.53	7.62	8.27	8.23	7.93	7.76	7.21	6.98	7.52	7.74
Subtotal	*126.04*	*125.02*	*121.92*	*120.21*	*141.82*	*159.17*	*161.83*	*156.07*	*151.16*	*138.95*	*127.50*	*121.52*	*137.68*
Total	**474.48**	**465.15**	**455.06**	**449.57**	**506.64**	**549.35**	**544.05**	**537.91**	**515.68**	**486.68**	**455.23**	**435.74**	**489.80**

Table 26. Monthly public-supply total withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	7.16	7.05	7.20	7.72	7.84	7.82	8.97	8.57	9.54	8.62	8.17	7.07	7.98
03130003	10.58	9.44	9.25	9.52	11.10	11.33	12.00	11.40	10.97	9.99	9.08	9.15	10.33
03130004	8.26	8.61	10.44	9.80	9.78	10.72	11.59	11.63	11.50	10.40	9.29	12.03	10.35
03130012	1.93	2.01	2.16	1.97	2.17	2.28	2.10	2.12	2.24	1.69	1.16	1.09	1.91
Subtotal	*27.93*	*27.10*	*29.06*	*29.01*	*30.88*	*32.16*	*34.66*	*33.72*	*34.24*	*30.71*	*27.69*	*29.34*	*30.57*
Chocawhatchee-Escambia													
03140103	1.05	1.05	1.08	1.14	1.30	1.43	1.56	1.47	1.37	1.27	1.24	1.26	1.27
03140104	0.07	0.07	0.06	0.05	0.07	0.10	0.08	0.08	0.09	0.08	0.08	0.10	0.08
03140106	4.86	4.07	4.66	4.67	5.19	5.18	5.41	5.84	5.62	5.53	4.81	4.79	5.06
03140107	3.75	4.16	4.95	4.70	6.70	7.85	8.57	7.01	5.86	5.39	4.39	4.00	5.62
03140201	18.22	18.26	18.38	21.44	23.94	24.02	24.84	23.21	22.55	18.89	18.16	19.63	20.98
03140202	5.48	5.24	5.21	5.21	6.24	6.76	6.27	6.69	6.18	5.98	5.31	5.35	5.83
03140203	0.41	0.40	0.44	0.48	0.48	0.54	0.51	0.54	0.57	0.43	0.42	0.45	0.47
03140301	5.49	6.00	5.67	5.79	6.26	6.54	7.27	7.17	6.31	6.00	5.57	5.32	6.12
03140302	1.72	1.38	1.37	1.42	1.59	1.77	1.83	1.71	1.71	1.57	1.53	1.56	1.60
03140303	2.55	2.29	2.53	2.36	2.81	2.55	2.60	2.57	2.43	2.36	2.27	2.17	2.46
03140304	3.00	2.85	2.67	4.16	4.24	3.52	3.34	3.51	3.41	3.02	2.89	2.96	3.30
03140305	2.07	2.38	2.03	1.95	2.03	2.44	2.05	2.27	2.40	2.12	2.38	2.20	2.19
Subtotal	*48.67*	*48.15*	*49.06*	*53.36*	*60.85*	*62.71*	*64.33*	*62.06*	*58.49*	*52.65*	*49.04*	*49.77*	*54.97*
Alabama													
03150105	3.95	3.68	3.70	3.80	4.05	4.47	4.69	4.45	4.20	4.03	3.90	4.00	4.08
03150106	62.92	63.41	60.75	59.75	64.70	68.56	70.06	70.77	65.30	62.16	59.82	58.24	63.88
03150107	16.19	15.80	15.91	17.11	18.61	19.23	18.48	19.08	18.90	17.07	16.41	15.85	17.39
03150108	0.82	0.86	0.81	0.81	0.96	0.97	0.97	0.98	0.92	0.87	0.81	0.75	0.88
03150109	16.27	15.33	16.61	15.61	18.18	18.71	19.23	18.97	17.78	18.81	17.29	17.12	17.51
03150110	30.83	28.77	28.26	28.69	32.98	36.19	37.84	37.10	36.81	31.50	28.26	27.56	32.09
03150201	30.55	20.02	26.49	26.96	28.19	28.70	28.27	29.82	29.40	26.67	23.65	24.33	26.97
03150202	75.04	72.34	70.76	71.59	80.03	77.97	76.48	78.12	76.36	78.94	75.63	75.65	75.77
03150203	4.91	4.59	4.52	4.38	4.41	4.34	4.59	4.57	4.53	4.23	3.95	4.28	4.44
03150204	2.06	2.01	2.04	1.96	1.99	2.20	2.24	2.12	2.09	2.09	1.88	2.01	2.06
Subtotal	*243.53*	*226.80*	*229.84*	*230.66*	*254.11*	*261.34*	*262.85*	*265.97*	*256.29*	*246.36*	*231.61*	*229.78*	*245.08*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 26. Monthly public-supply total withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	2.78	2.68	3.14	2.59	2.61	2.57	2.72	2.49	2.53	2.46	2.47	2.40	2.62
03160105	3.22	3.20	3.06	3.05	3.22	3.33	3.31	3.32	3.11	3.10	3.05	2.95	3.16
03160106	3.69	3.56	4.23	3.80	3.98	4.23	5.22	4.89	4.76	4.59	4.41	4.19	4.30
03160107	0.68	0.74	0.67	0.67	0.73	0.78	0.75	0.78	1.55	1.49	1.39	1.16	0.95
03160108	0.27	0.24	0.25	0.23	0.25	0.26	0.26	0.29	0.28	0.26	0.39	0.19	0.26
03160109	33.58	49.42	48.34	46.51	50.68	58.12	58.85	56.75	54.24	46.98	45.31	45.42	49.50
03160110	23.97	6.91	3.03	9.51	16.64	15.53	12.75	9.26	10.44	14.75	12.34	9.42	12.09
03160111	48.65	47.43	45.99	35.32	32.96	42.41	45.86	42.05	34.39	29.54	26.33	25.21	37.97
03160112	45.54	44.91	43.62	43.16	48.58	52.04	50.98	51.52	50.03	49.29	43.94	41.70	47.13
03160113	5.58	5.72	5.52	5.46	5.64	5.71	5.91	6.14	5.88	5.83	5.53	5.58	5.71
03160201	3.55	3.14	3.19	3.14	3.33	3.29	3.31	3.33	3.26	3.20	3.24	3.40	3.28
03160202	0.73	0.67	0.64	0.74	0.61	0.62	0.70	0.71	0.68	0.61	0.60	0.68	0.67
03160203	4.29	5.97	4.03	4.85	4.34	3.99	4.12	4.16	4.00	3.95	3.70	3.56	4.23
03160204	7.35	7.90	7.39	7.85	9.07	8.95	9.01	8.86	9.08	8.24	7.33	7.60	8.22
03160205	11.84	11.54	11.69	13.66	16.96	17.50	17.12	16.01	15.79	14.59	13.01	12.26	14.35
Subtotal	*195.72*	*194.01*	*184.78*	*180.53*	*199.60*	*219.32*	*220.86*	*210.56*	*200.03*	*188.87*	*173.04*	*165.70*	*194.43*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	55.83	52.11	54.31	56.69	60.85	63.19	54.41	62.05	59.72	58.25	57.28	54.70	57.47
03170009	1.03	0.96	1.05	1.11	1.19	1.39	1.47	1.26	1.22	1.15	0.99	1.03	1.16
Subtotal	*56.86*	*53.07*	*55.36*	*57.81*	*62.04*	*64.58*	*55.88*	*63.31*	*60.94*	*59.40*	*58.27*	*55.73*	*58.63*
Middle Tennessee-Hiwassee													
06020001	0.29	0.30	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.28	0.28	0.28	0.30
Subtotal	*0.29*	*0.30*	*0.30*	*0.30*	*0.31*	*0.32*	*0.33*	*0.33*	*0.34*	*0.28*	*0.28*	*0.28*	*0.30*
Middle Tennessee-Elk													
06030001	34.71	33.23	33.86	33.57	37.16	40.81	40.61	40.42	39.09	34.94	33.73	34.05	36.37
06030002	93.02	92.79	88.78	88.50	108.43	121.44	127.21	118.56	113.11	103.22	93.76	87.88	103.13
06030003	0.00	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	6.94	7.11	6.83	6.78	7.43	8.40	8.60	8.31	8.29	8.11	7.67	7.51	7.67
06030005	21.53	21.63	20.91	20.44	22.56	23.22	23.69	22.84	23.08	21.99	20.85	20.32	21.92
06030006	8.63	9.24	9.06	8.59	8.72	9.38	9.39	9.05	8.80	8.20	7.92	8.52	8.79
Subtotal	*164.83*	*163.99*	*159.43*	*157.87*	*184.30*	*203.26*	*209.51*	*199.18*	*192.37*	*176.47*	*163.93*	*158.29*	*177.88*
Total	**737.83**	**713.42**	**707.83**	**709.54**	**792.09**	**843.69**	**848.41**	**835.13**	**802.71**	**754.74**	**703.86**	**688.89**	**761.87**

Residential

Residential water refers to the water that is used for all indoor household purposes, such as drinking, preparing food, bathing, washing clothes and dishes, flushing toilets, and outdoor purposes, such as watering lawns and gardens. Residential water use is defined in this report as public-supplied residential deliveries plus self-supplied residential withdrawals.

Self-supplied residential withdrawals by county and subbasin are shown in tables 27 and 28. Self-supplied residential withdrawals were assumed to be constant year-round; therefore, no monthly tables were produced. Public-supplied residential deliveries and self-supplied residential water withdrawals were 358 MGD in 2015. Public suppliers delivered 321 MGD (90%), of residential water. The remaining 37 MGD of residential water was self-supplied from groundwater. Self-supplied residential withdrawals were less than 1 percent of the total water withdrawals and 2 percent of the withdrawals for all sectors except thermoelectric power (table 5). Eleven percent (11%) of the population relied on private wells for their drinking water.

The geographic distribution of groundwater withdrawals for self-supplied residential use by county and subbasin are shown in figures 24 and 25. The counties with the largest self-supplied residential withdrawals were Mobile (3 MGD), Baldwin (2 MGD), and Talladega (2 MGD) Counties. The counties with the smallest self-supplied residential withdrawals were Lowndes (0.05 MGD), Sumter (0.7 MGD), and Bullock (0.07 MGD) Counties. The subbasins with the largest self-supplied residential withdrawals were the Middle Coosa (03150106; 3 MGD), the Wheeler Lake (06030002; 2 MGD), the Guntersville Lake (06030001; 2 MGD), the Lower Coosa (03150107; 2 MGD), and the Pickwick Lake (06030005; 2 MGD) subbasins. The subbasins with the smallest self-supplied residential withdrawals were the Elk (06030006; 0 MGD), the Lower Chickasawhay (03170003; 0 MGD), the Upper Chickasawhay (03170002; 0.03 MGD) and the Sucarnoochee (03160202, 0.03 MGD) subbasins.

The self-supplied residential population, as a percentage of the total state population by county, is shown in figure 26. The largest self-supplied residential populations were in Mobile and Baldwin Counties. Although Mobile County had the largest number of people (38,323) with private wells, this number represents only 9 percent of the population of that county. Conversely, a much smaller population in Choctaw County relied on private wells (8,172 people), this number represents 62 percent of the county population—a much higher percentage than Mobile County.

Residential per capita use (public-supplied residential deliveries plus self-supplied residential withdrawals divided by the total population) was 74 gal/d. Public-supplied residential per capita use (public-supplied residential deliveries divided by population served) was 74 gal/d and ranged from 46 gal/d for Clay County to 114 gal/d for Hale County. Self-supplied residential per capita use was 68 gal/d.

The sources of information and methodology for estimating public-supply residential deliveries, population served by public suppliers, self-supplied residential withdrawals, and self-supplied population are detailed in the “Public Supply and Residential Water Use” and “Population Served and Self-Supplied Residential Population” sections in the “Data Compilation, Sources of Information, and Methodology for Withdrawals” section of this report.

Figure 24. Map of self-supplied residential groundwater withdrawals by county in Alabama in 2015, in MGD.

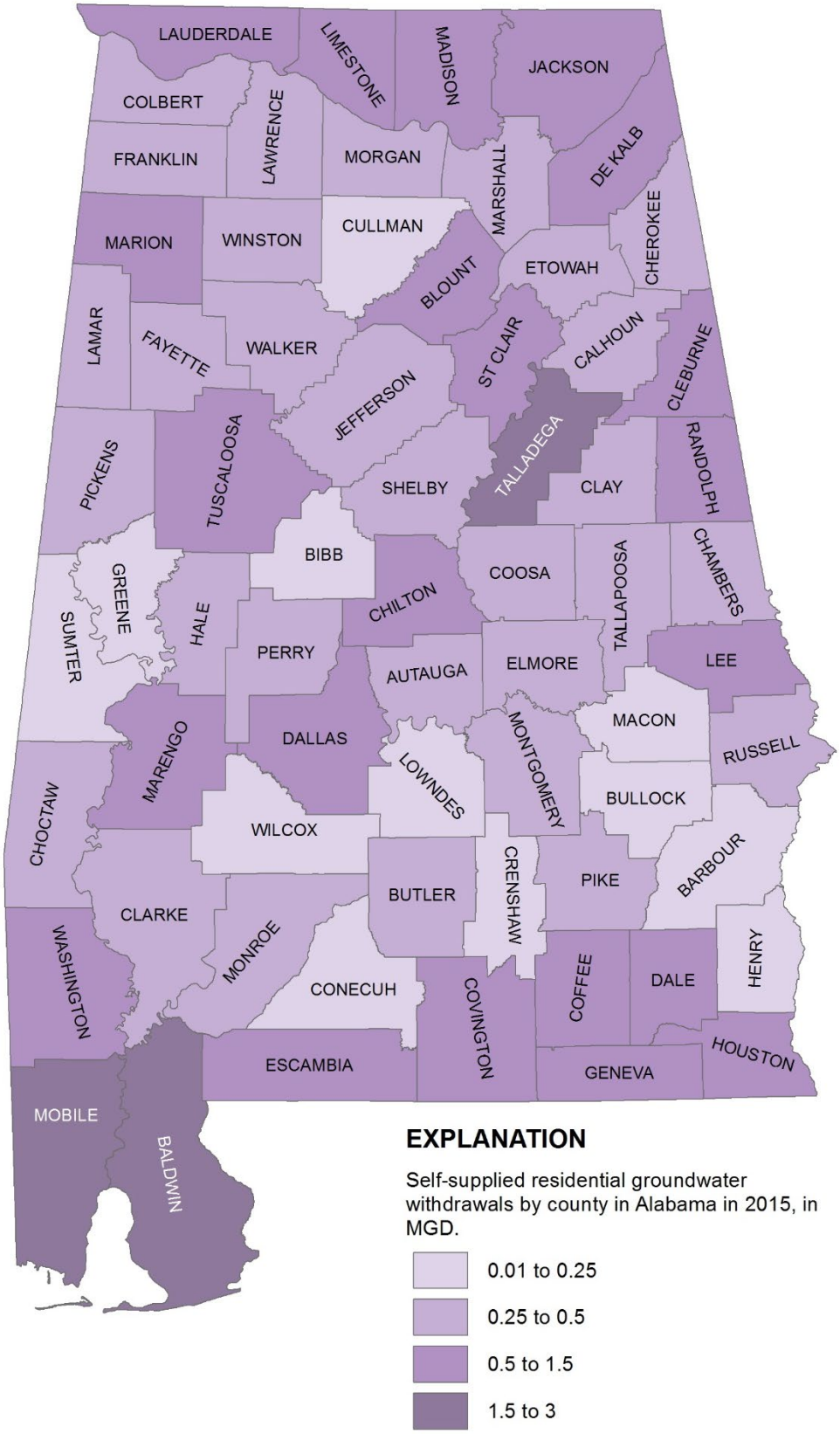


Figure 25. Map of self-supplied residential groundwater withdrawals by subbasin in Alabama in 2015, in MGD.

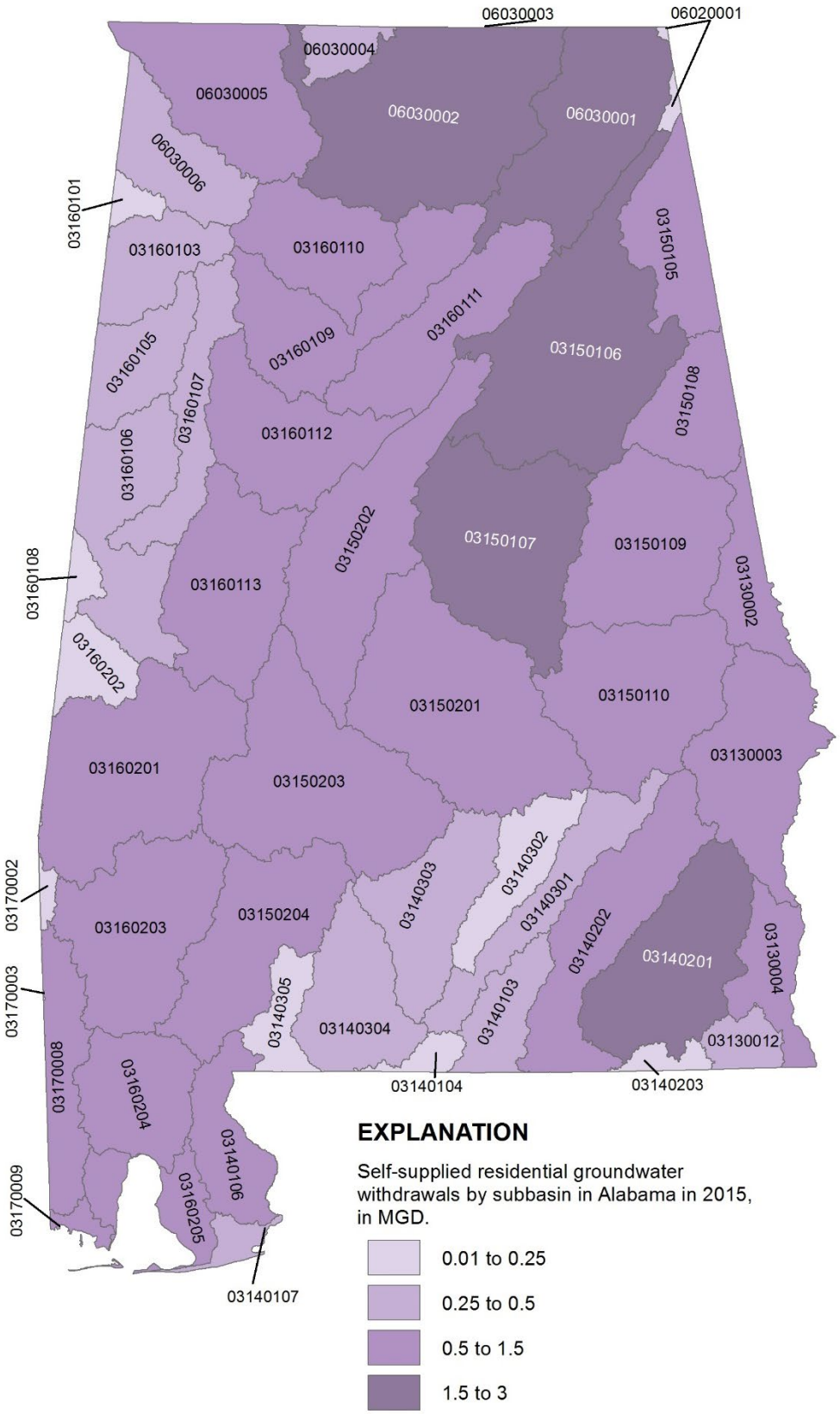


Table 27. Self-supplied residential withdrawals by county in Alabama in 2015, in MGD.

		Population		
County Name	Total	Served by public supply	Self supplied	Self supplied in Percent
AUTAUGA	55,347	48,998	6,349	11%
BALDWIN	203,709	174,907	28,802	14%
BARBOUR	26,489	24,587	1,902	7%
BIBB	22,583	20,947	1,636	7%
BLOUNT	57,673	44,815	12,858	22%
BULLOCK	10,696	9,958	738	7%
BUTLER	20,154	16,806	3,348	17%
CALHOUN	115,620	109,438	6,182	5%
CHAMBERS	34,123	25,783	8,340	24%
CHEROKEE	25,859	17,746	8,113	31%
CHILTON	43,943	34,630	9,313	21%
CHOCTAW	13,170	4,998	8,172	62%
CLARKE	24,675	17,759	6,916	28%
CLAY	13,555	5,970	7,585	56%
CLEBURNE	15,018	6,613	8,405	56%
COFFEE	51,211	42,461	8,750	17%
COLBERT	54,354	50,414	3,940	7%
CONECUH	12,672	6,988	5,684	45%
COOSA	10,724	5,839	4,885	46%
COVINGTON	37,835	24,183	13,652	36%
CRENSHAW	13,963	10,616	3,347	24%
CULLMAN	82,005	79,424	2,581	3%
DALE	49,565	40,468	9,097	18%
DALLAS	41,131	31,711	9,420	23%
DEKALB	71,130	51,765	19,365	27%
ELMORE	81,468	75,870	5,598	7%
ESCAMBIA	37,789	30,839	6,950	18%
ETOWAH	103,057	99,052	4,005	4%
FAYETTE	16,759	9,743	7,016	42%
FRANKLIN	31,696	25,004	6,692	21%
GENEVA	26,777	15,541	11,236	42%
GREENE	8,479	5,778	2,701	32%
HALE	15,068	12,160	2,908	19%
HENRY	17,221	13,297	3,924	23%

Table 27. Self-supplied residential withdrawals by county in Alabama in 2015, in MGD – Continued.

		Population		
County Name	Total	Served by public supply	Self supplied	Self supplied in Percent
HOUSTON	104,173	84,623	19,550	19%
JACKSON	52,419	38,802	13,617	26%
JEFFERSON	660,367	654,319	6,048	1%
LAMAR	13,886	8,668	5,218	38%
LAUDERDALE	92,596	77,817	14,779	16%
LAWRENCE	33,115	27,629	5,486	17%
LEE	156,993	147,603	9,390	6%
LIMESTONE	91,663	78,965	12,698	14%
LOWNDES	10,458	9,713	745	7%
MACON	19,105	16,294	2,811	15%
MADISON	353,089	342,658	10,431	3%
MARENGO	20,028	11,563	8,465	42%
MARION	30,168	20,279	9,889	33%
MARSHALL	94,725	88,680	6,045	6%
MOBILE	415,395	377,074	38,321	9%
MONROE	21,673	15,775	5,898	27%
MONTGOMERY	226,519	221,784	4,735	2%
MORGAN	119,565	115,544	4,021	3%
PERRY	9,652	5,432	4,220	44%
PICKENS	20,864	16,578	4,286	21%
PIKE	33,046	29,067	3,979	12%
RANDOLPH	22,696	11,912	10,784	48%
RUSSELL	59,660	55,434	4,226	7%
SHELBY	208,713	199,698	9,015	4%
ST CLAIR	87,074	80,226	6,848	8%
SUMTER	13,103	11,919	1,184	9%
TALLADEGA	80,862	60,455	20,407	25%
TALLAPOOSA	40,844	34,761	6,083	15%
TUSCALOOSA	203,976	192,500	11,476	6%
WALKER	65,294	57,701	7,593	12%
WASHINGTON	16,804	9,159	7,645	45%
WILCOX	11,059	6,592	4,467	40%
WINSTON	23,877	15,253	8,624	36%
TOTAL	**4,858,979**	**4,319,584**	**539,395**	
AVERAGE		**89%**	**11%**	

Table 27. Self-supplied residential withdrawals by county in Alabama in 2015, in MGD – Continued.

	Residential water use, in million gallons per day			Residential per capita use, in gallons per day		
County Name	Groundwater withdrawals	Residential Deliveries	Combined	Self-supplied	Public-supplied	Combined
AUTAUGA	0.38	2.71	3.09	60	55	56
BALDWIN	2.15	12.78	14.93	74	73	73
BARBOUR	0.12	1.42	1.54	62	58	58
BIBB	0.16	1.81	1.97	98	86	87
BLOUNT	0.86	2.79	3.65	67	62	63
BULLOCK	0.07	0.89	0.96	95	89	89
BUTLER	0.27	1.35	1.62	80	80	80
CALHOUN	0.44	7.52	7.96	71	69	69
CHAMBERS	0.48	1.74	2.21	57	67	65
CHEROKEE	0.49	1.08	1.57	61	61	61
CHILTON	0.60	2.23	2.82	64	64	64
CHOCTAW	0.41	0.25	0.67	51	51	51
CLARKE	0.45	1.19	1.64	65	67	66
CLAY	0.32	0.28	0.59	42	46	44
CLEBURNE	0.94	0.61	1.56	112	93	104
COFFEE	0.80	3.53	4.34	92	83	85
COLBERT	0.35	4.27	4.62	89	85	85
CONECUH	0.18	0.41	0.59	32	58	46
COOSA	0.33	0.39	0.72	67	67	67
COVINGTON	1.01	1.81	2.82	74	75	74
CRENSHAW	0.15	0.83	0.98	44	78	70
CULLMAN	0.19	5.73	5.92	72	72	72
DALE	0.68	3.05	3.73	75	75	75
DALLAS	0.66	2.23	2.89	70	70	70
DEKALB	1.34	3.39	4.73	69	65	67
ELMORE	0.36	5.02	5.38	64	66	66
ESCAMBIA	0.51	2.22	2.73	73	72	72
ETOWAH	0.26	6.60	6.85	64	67	66
FAYETTE	0.49	0.68	1.17	70	70	70
FRANKLIN	0.37	1.40	1.77	56	56	56
GENEVA	0.68	0.94	1.62	60	60	60
GREENE	0.16	0.35	0.52	61	61	61
HALE	0.33	1.38	1.71	113	114	114
HENRY	0.24	0.81	1.05	61	61	61

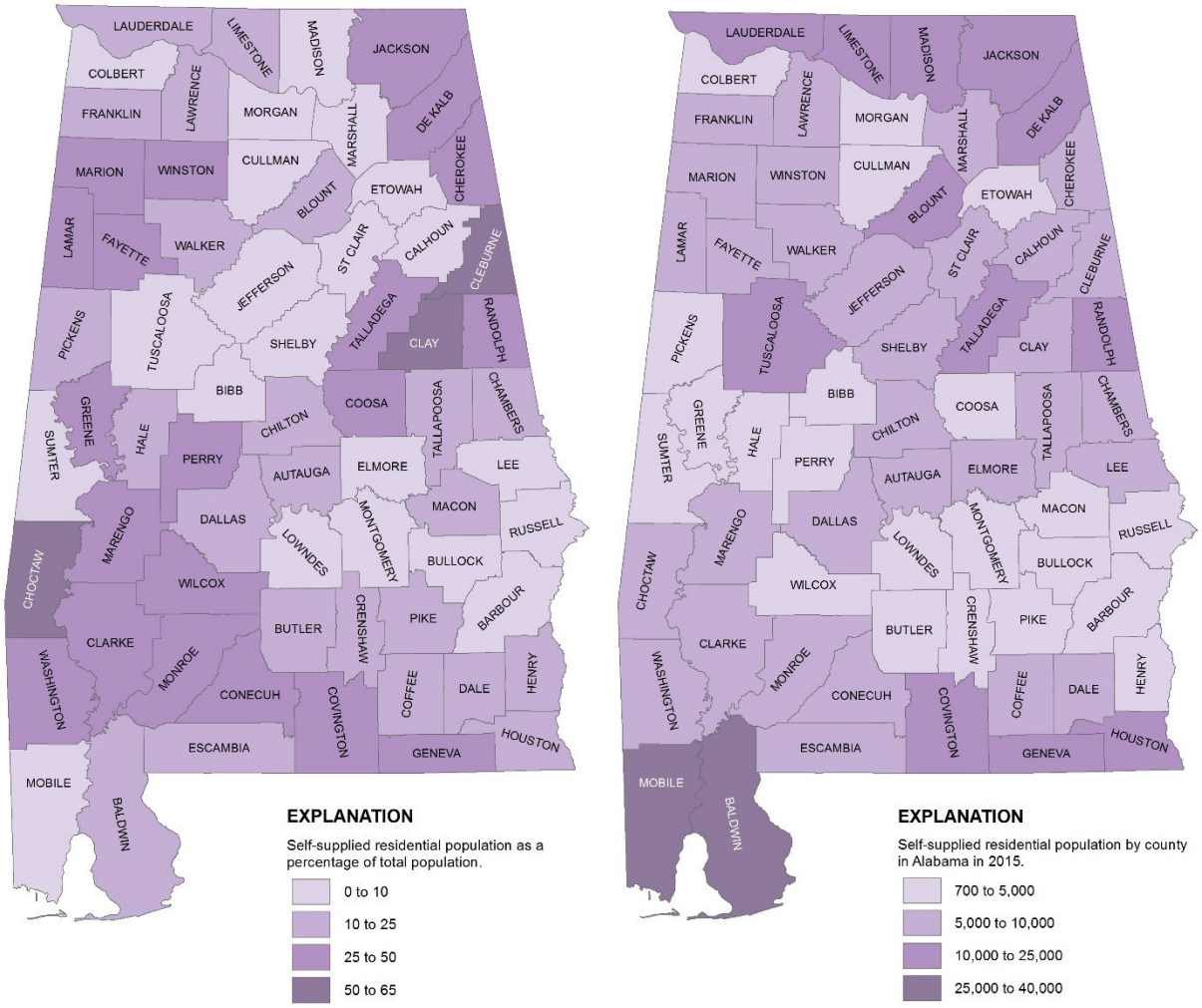
Table 27. Self-supplied residential withdrawals by county in Alabama in 2015, in MGD – Continued.

	Residential water use, in million gallons per day			Residential per capita use, in gallons per day		
County Name	Groundwater withdrawals	Residential Deliveries	Combined	Self-supplied	Public-supplied	Combined
HOUSTON	1.11	4.98	6.09	57	59	58
JACKSON	0.86	2.61	3.46	63	67	66
JEFFERSON	0.39	48.85	49.23	64	75	75
LAMAR	0.29	0.49	0.78	56	56	56
LAUDERDALE	1.17	6.17	7.34	79	79	79
LAWRENCE	0.35	1.78	2.13	64	64	64
LEE	0.72	9.81	10.53	77	66	67
LIMESTONE	0.99	5.42	6.40	78	69	70
LOWNDES	0.05	0.76	0.81	67	78	77
MACON	0.15	1.16	1.31	54	71	69
MADISON	0.72	30.95	31.67	69	90	90
MARENGO	0.53	0.72	1.25	62	62	62
MARION	0.54	1.10	1.64	54	54	54
MARSHALL	0.43	9.05	9.49	72	102	100
MOBILE	2.72	35.57	38.29	71	94	92
MONROE	0.38	1.03	1.41	65	65	65
MONTGOMERY	0.30	14.30	14.60	63	64	64
MORGAN	0.32	8.81	9.13	79	76	76
PERRY	0.33	0.43	0.76	78	78	78
PICKENS	0.37	1.33	1.70	87	80	81
PIKE	0.33	2.33	2.66	82	80	80
RANDOLPH	0.58	0.64	1.22	54	53	54
RUSSELL	0.30	4.90	5.20	71	88	87
SHELBY	0.44	12.85	13.29	48	64	64
ST CLAIR	0.51	4.63	5.14	74	58	59
SUMTER	0.07	0.71	0.78	57	59	59
TALLADEGA	1.75	5.53	7.27	86	91	90
TALLAPOOSA	0.43	2.32	2.74	70	67	67
TUSCALOOSA	0.75	12.29	13.04	65	64	64
WALKER	0.45	3.52	3.97	59	61	61
WASHINGTON	0.52	0.60	1.12	69	65	67
WILCOX	0.23	0.35	0.57	50	52	52
WINSTON	0.43	1.33	1.76	50	87	74
TOTAL	**36.69**	**320.96**	**357.64**			
				68	**74**	**74**

Table 28. Self-supplied residential withdrawals by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day
	Groundwater
Apalachicola	
03130002	0.52
03130003	0.58
03130004	0.58
03130012	0.50
Subtotal	*2.18*
Chocawhatchee-Escambia	
03140103	0.48
03140104	0.11
03140106	0.69
03140107	0.29
03140201	1.51
03140202	1.08
03140203	0.16
03140301	0.43
03140302	0.22
03140303	0.36
03140304	0.38
03140305	0.16
Subtotal	*5.87*
Alabama	
03150105	0.90
03150106	2.75
03150107	1.64
03150108	0.95
03150109	1.03
03150110	0.79
03150201	1.12
03150202	0.80
03150203	0.87
03150204	0.69
Subtotal	*11.54*
Mobile-Tombigbee	
03160101	0.08
03160103	0.44
03160105	0.38
03160106	0.32
03160107	0.46
03160108	0.10
03160109	0.77
03160110	0.51
03160111	0.93
03160112	0.67
03160113	0.68
03160201	0.89
03160202	0.03
03160203	0.70
03160204	1.28
03160205	1.12
Subtotal	*9.37*
Pascagoula	
03170002	0.03
03170003	0.00
03170008	0.85
03170009	0.53
Subtotal	*1.41*
Middle Tennessee-Hiwassee	
06020001	0.08
Subtotal	*0.08*
Middle Tennessee-Elk	
06030001	1.65
06030002	2.32
06030003	0.00
06030004	0.41
06030005	1.39
06030006	0.47
Subtotal	*6.22*
Total	**36.69**

Figure 26. Map of self-supplied residential population as a percentage of total population and self-supplied residential population by county in Alabama in 2015.



Irrigation

Irrigation water refers to water that is applied by an irrigation system to assist in the growing of crops and pastures or to maintain vegetative growth in recreational lands such as parks and golf courses. Irrigation includes water that is applied for pre-irrigation, frost protection, chemical application, weed control, field preparation, crop cooling, harvesting, dust suppression, the leaching of salts from the root zone, and water lost in conveyance. Conveyance loss was not reported for 2015. Although annual water-use data are expressed in terms of million gallons per day, irrigation water is applied, generally, only during part of each year and at variable rates; therefore, the actual rate of application during the growing season would be more than the daily rate expressed as million gallons per day.

Irrigation withdrawals and irrigated acres by irrigation system, county and subbasin are shown in tables 29 through 37 with tables 30 through 32 and 34 through 36 showing monthly withdrawals. For 2015, total irrigation withdrawals were 223 MGD. Irrigation withdrawals were 3 percent of total withdrawals and 14 percent of total withdrawals for all sectors excluding thermoelectric power (table 13). Of the total irrigation withdrawals, 56 percent, or 124 MGD, was from surface water. The remaining 44 percent, or 99 MGD, was from groundwater (figure 27). Approximately 188,970 acres were irrigated in 2015. Average application rates were calculated by dividing total irrigation withdrawals – determined separately for crops (row crops, nursery stock, and sod) and golf courses – for each county by the number of acres. The statewide average application rate was 1.32 acre-feet per acre per year. The highest application rate was for nursery stock, 5.29 acre-feet per acre per year.

The geographic distribution of total, groundwater, and surface-water withdrawals for irrigation by county and hydrologic subregion and subbasin are shown in figures 28 and 29. Thirty nine percent of the counties (26 counties) withdrew less than 1 MGD for irrigation. Baldwin County withdrew 26 percent (58 MGD) of total irrigation water with 81 percent of that water (47 MGD) withdrawn from groundwater sources (table 29). The top 14 counties (totaling 150 MGD) each withdrew more than 5 MGD, and as a group withdrew 67 percent of the irrigation total for the State. The Guntersville Lake subbasin (06030002, in the Middle Tennessee Elk subregion) withdrew the most water for irrigation in 2015 (19 MGD) – 9 percent of the total. The top 9 subbasins, each withdrew 10 MGD or more, accounted for roughly 57 percent of the estimated withdrawals (table 33)

Approximately 27 percent (61,340 acres) of the total irrigated acreage (188,970 acres) and about 26 percent of the total crop irrigated acreage (57,120 acres of the 166,640 acres) were in Baldwin County (primarily nursery and sod), Limestone (primarily corn and cotton), Houston (primarily nursery and sod) and Madison Counties (primarily corn and cotton). (U.S. Department of Agriculture, National Agricultural Statistics Service, 2014, table 37).

Nursery stock and sod are important to the agricultural economy of the state. Nursery stock and sod accounted for approximately 15 percent (25,409 acres) of the 166,640 irrigated crop acreage statewide. Approximately 43 percent of the total nursery stock and sod acreage was in Baldwin County. In comparisons to most crops in the state, all of the commercial nursery, sod, and

golf course acreages were irrigated. These businesses were located in nearly every county in Alabama.

Golf courses applied an estimated 43 MGD to 22,300 acres in 2015 (table 37). For this report, it was assumed that all golf course irrigation was from surface water and the water applied was from sprinkler systems. Golf courses were classified as Tier 1, 2, or 3 (table 4) depending on several factors including turf and landscape watering practices, which, are in turn, guided by the season of the year, antecedent soil moisture, weather conditions, and operational costs. Tier 1 golf courses water more extensively than Tier 2 and Tier 3 courses. The effect of precipitation on watering practices in 2015 is shown in figure 30. A composite of average monthly watering by tier is compared to statewide monthly average rainfall amounts expressed as departure from normal in inches for 2015 (National Oceanic and Atmospheric Administration, 2016). Statewide average rainfall for 2015 was about 59 inches— about 3 inches above the normal rainfall of 56 inches per year.

While a significant amount of irrigation withdrawal data is reported to the OWR AWURP, there are some limitations in the annually reported data such as irrigated acreage, crop type, irrigation system type, application rates, etc. Therefore, irrigation withdrawal information was supplemented from ancillary data, such as crop type, application coefficients, and irrigated acreage. The sources of these ancillary data were an OWR irrigation survey, Alabama Department of Agriculture and Industries (AGI) listing of 2010 certified nursery growers and nursery dealers, and the U.S. Department of Agriculture, National Agricultural Statistics Service Census of Agriculture (2012).

Figure 27. Source and distribution of water for irrigation use in Alabama in 2015, in MGD.

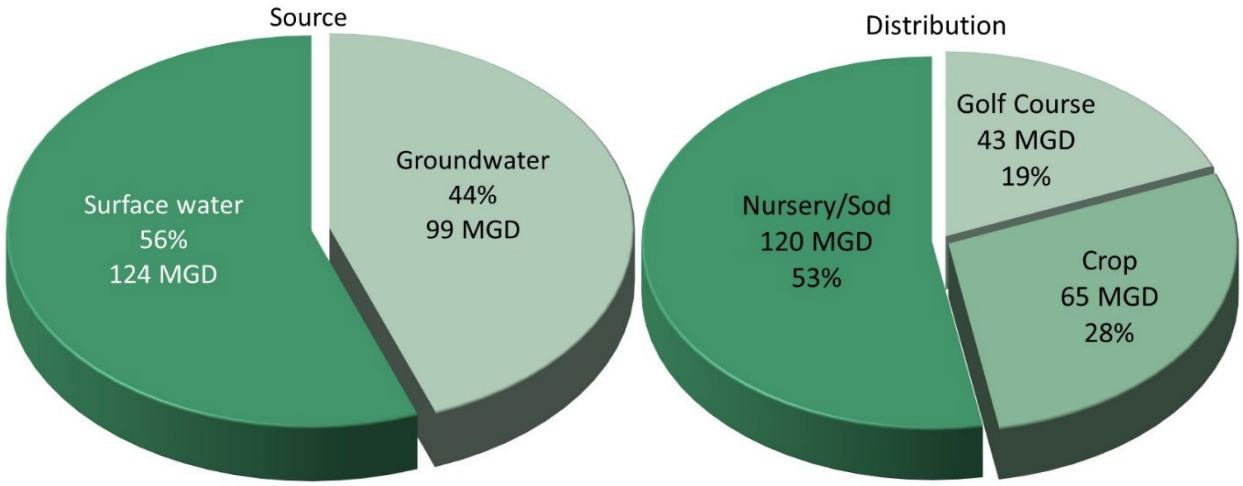


Figure 28. Map of irrigation withdrawals by source and county in Alabama in 2015, in MGD.

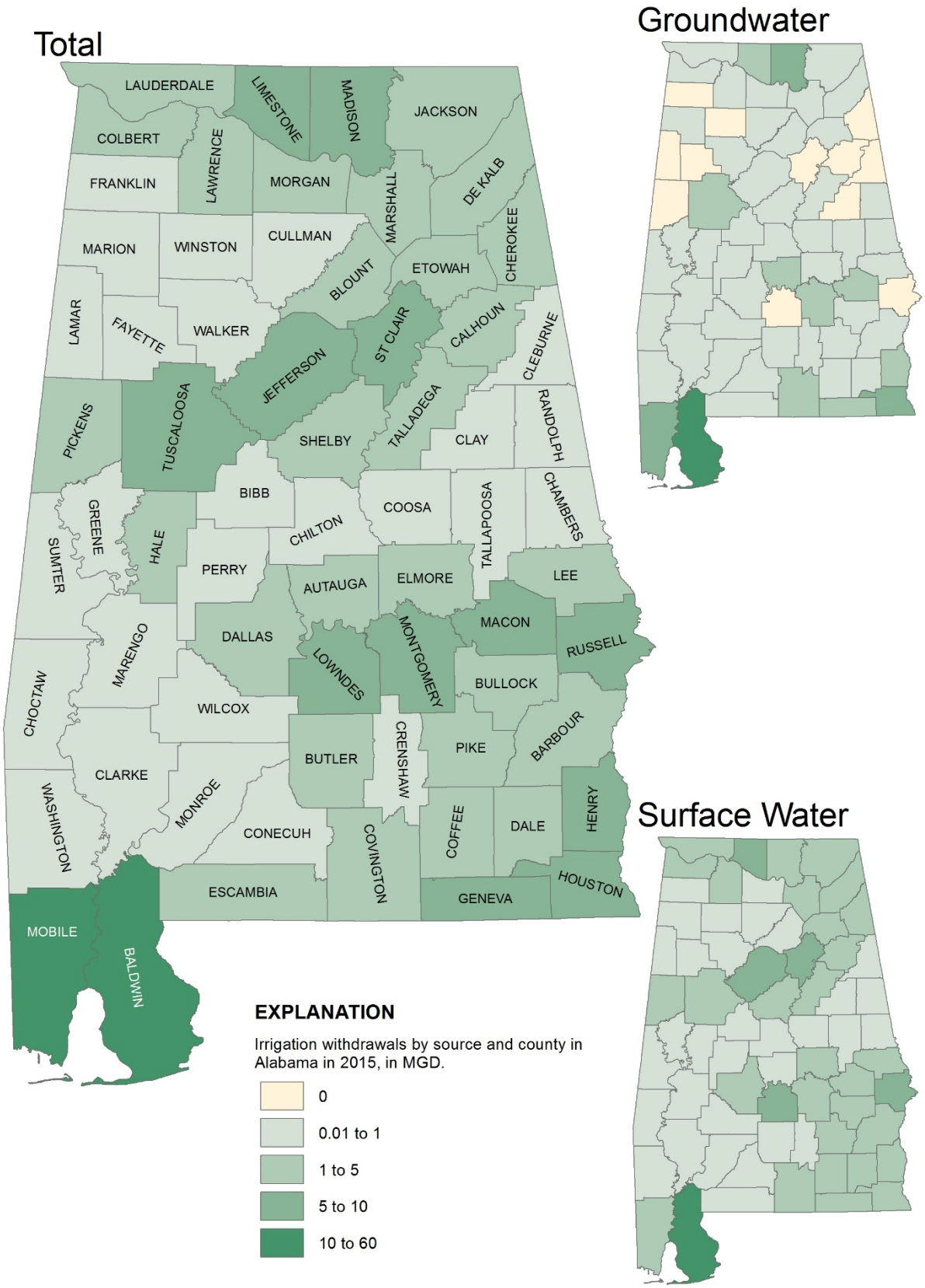


Figure 29. Map of irrigation withdrawals by source and subbasin in Alabama in 2015, in MGD.

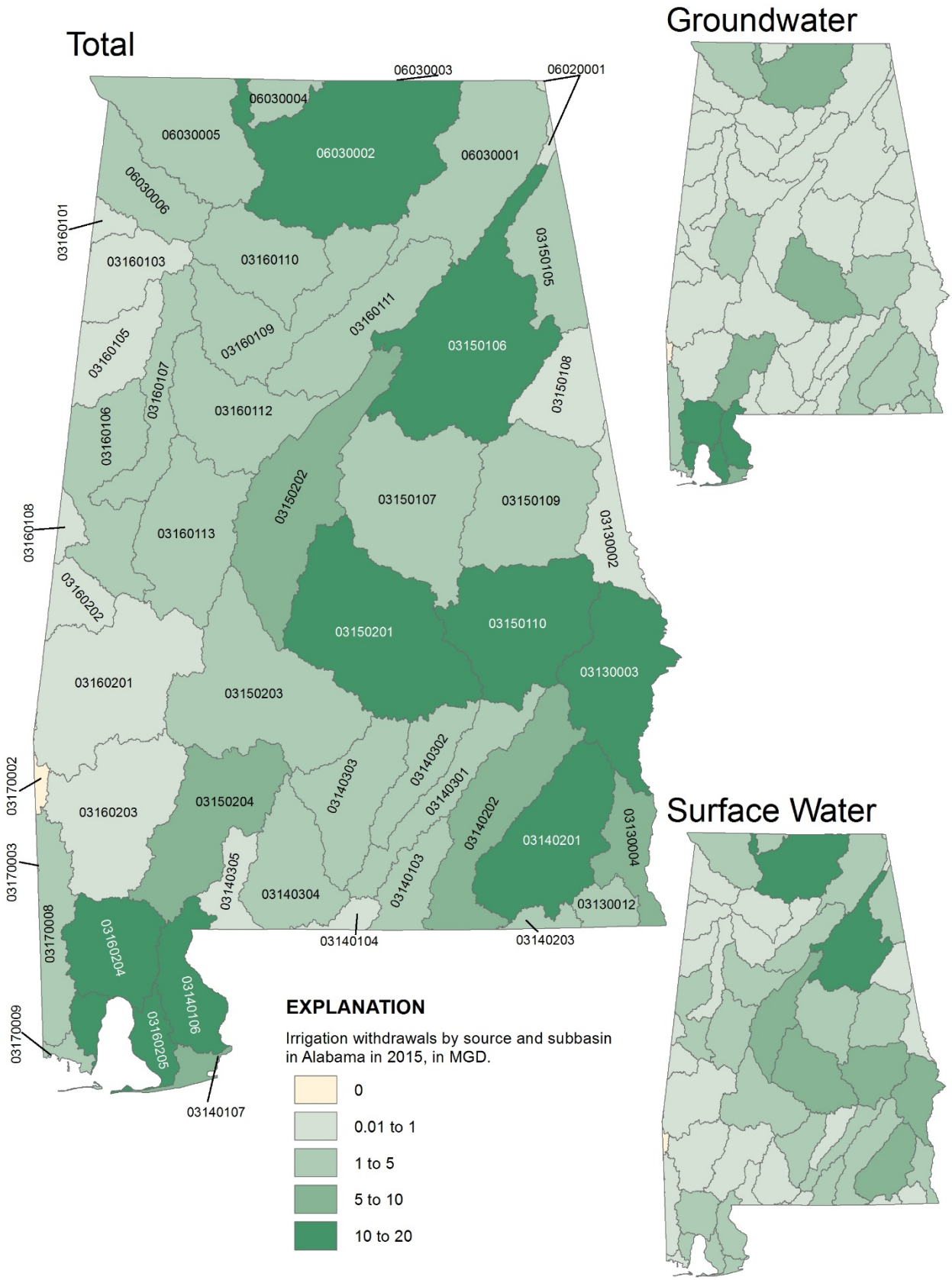


Figure 30. Comparison of seasonal water use by golf course type in Alabama in 2015.

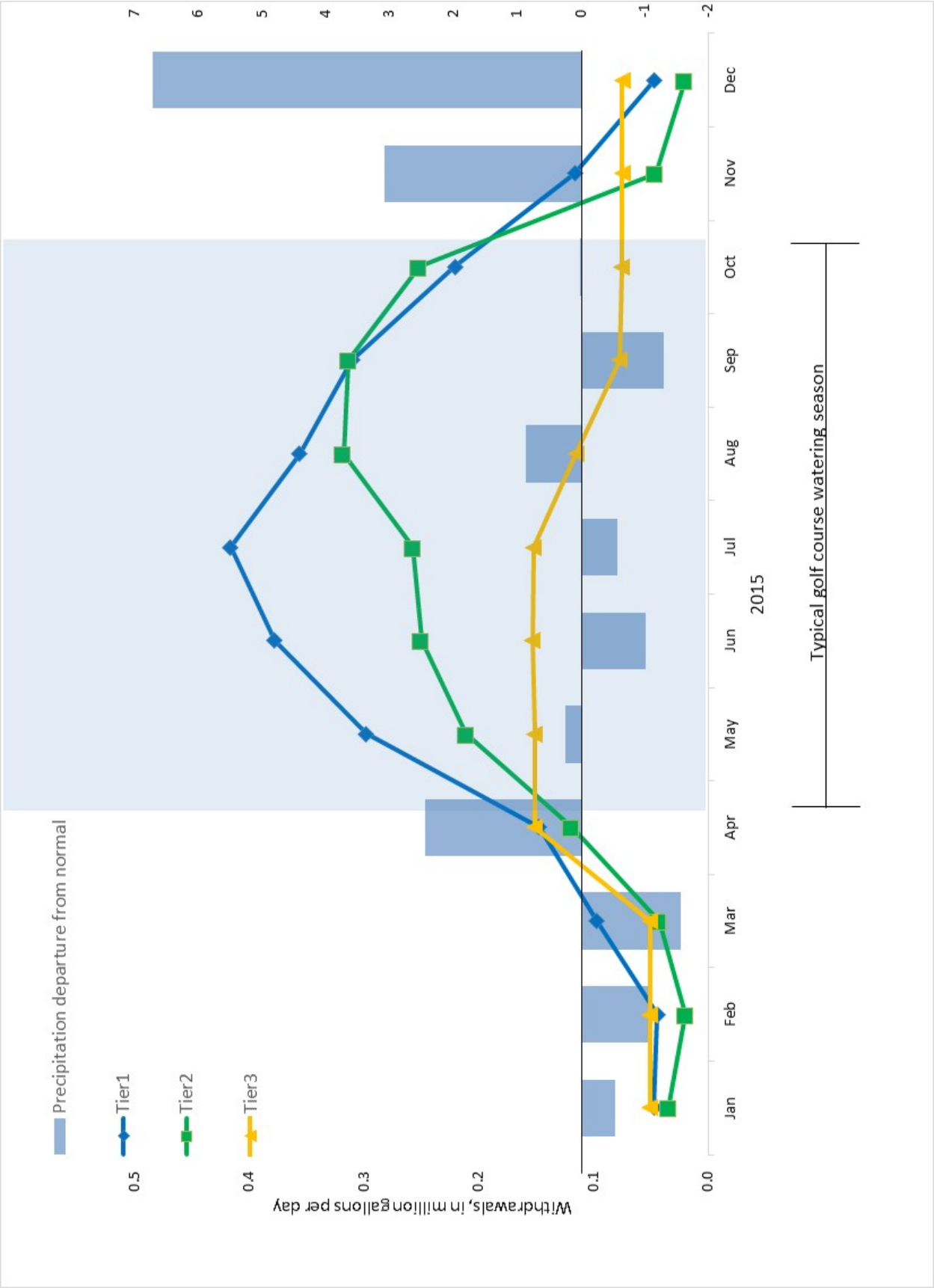


Table 29. Irrigation withdrawals by county in Alabama in 2015, in MGD.

	IRRIGATED LAND in thousand acres		WITHDRAWALS by source in million gallons per day			Application rate (in acre-feet per acre)
County Name	Total		Groundwater	Surface water	Total	
AUTAUGA	2.26		3.36	0.16	3.52	1.75
BALDWIN	20.66		47.28	11.15	58.42	3.17
BARBOUR	4.53		0.58	2.41	2.98	0.74
BIBB	0.16		0.03	0.16	0.19	1.37
BLOUNT	0.94		0.20	0.88	1.08	1.29
BULLOCK	1.67		0.92	1.08	2.00	1.34
BUTLER	0.30		0.01	0.99	1.01	3.82
CALHOUN	1.93		0.00	3.16	3.16	1.83
CHAMBERS	0.17		0.07	0.16	0.22	1.47
CHEROKEE	1.87		0.00	2.83	2.83	1.69
CHILTON	0.57		0.33	0.16	0.48	0.95
CHOCTAW	0.06		0.00	0.16	0.16	2.84
CLARKE	0.16		0.02	0.26	0.28	1.90
CLAY	0.08		0.00	0.12	0.12	1.80
CLEBURNE	0.31		0.00	0.14	0.14	0.50
COFFEE	5.06		0.68	3.20	3.89	0.86
COLBERT	4.17		0.79	1.67	2.46	0.66
CONECUH	0.16		0.05	0.16	0.21	1.50
COOSA	0.06		0.00	0.10	0.10	2.06
COVINGTON	2.22		1.27	2.20	3.47	1.76
CRENSHAW	0.96		0.00	0.58	0.58	0.68
CULLMAN	0.73		0.28	0.63	0.91	1.39
DALE	2.84		0.33	1.76	2.09	0.82
DALLAS	3.16		0.69	2.53	3.22	1.14
DEKALB	0.67		0.49	2.15	2.65	4.40
ELMORE	3.83		0.61	2.48	3.09	0.90
ESCAMBIA	1.96		1.00	0.75	1.75	1.00
ETOWAH	0.65		0.00	1.00	1.01	1.75
FAYETTE	0.45		0.00	0.37	0.37	0.92
FRANKLIN	1.23		0.00	0.84	0.84	0.77
GENEVA	8.86		2.52	2.97	5.50	0.70
GREENE	0.44		0.33	0.13	0.45	1.17
HALE	1.96		0.92	0.16	1.08	0.61
HENRY	8.58		1.43	4.46	5.89	0.77

Table 29. Irrigation withdrawals by county in Alabama in 2015, in MGD – Continued.

	IRRIGATED LAND in thousand acres		WITHDRAWALS by source in million gallons per day			Application rate (in acre-feet per acre)
County Name	Total		Groundwater	Surface water	Total	
HOUSTON	13.19		5.17	2.42	7.59	0.64
JACKSON	0.96		0.27	1.02	1.29	1.50
JEFFERSON	3.15		0.08	5.82	5.90	2.10
LAMAR	0.80		0.00	0.24	0.24	0.34
LAUDERDALE	1.04		0.56	1.25	1.81	1.95
LAWRENCE	4.88		0.05	2.54	2.59	0.59
LEE	2.09		0.29	2.89	3.18	1.71
LIMESTONE	15.87		2.48	7.32	9.80	0.69
LOWNDES	5.10		0.00	5.75	5.75	1.26
MACON	3.66		2.40	3.55	5.94	1.82
MADISON	11.61		5.02	4.17	9.19	0.89
MARENGO	0.56		0.17	0.26	0.43	0.86
MARION	0.39		0.11	0.16	0.27	0.78
MARSHALL	1.13		0.79	1.30	2.08	2.06
MOBILE	5.52		8.67	2.27	10.94	2.22
MONROE	1.05		0.41	0.16	0.57	0.60
MONTGOMERY	3.47		4.26	2.03	6.29	2.03
MORGAN	0.86		0.16	0.89	1.04	1.36
PERRY	1.23		0.54	0.10	0.63	0.58
PICKENS	4.24		0.00	1.96	1.96	0.52
PIKE	3.36		0.41	1.06	1.47	0.49
RANDOLPH	0.13		0.03	0.11	0.14	1.16
RUSSELL	4.78		0.00	7.47	7.47	1.75
SHELBY	1.27		0.34	1.38	1.72	1.51
ST CLAIR	1.93		0.00	5.18	5.18	3.01
SUMTER	1.59		0.50	0.26	0.75	0.53
TALLADEGA	6.09		0.61	4.19	4.80	0.88
TALLAPOOSA	1.44		0.02	0.89	0.92	0.71
TUSCALOOSA	2.92		1.33	4.35	5.68	2.18
WALKER	0.44		0.05	0.67	0.72	1.82
WASHINGTON	0.15		0.07	0.16	0.23	1.73
WILCOX	0.28		0.06	0.39	0.45	1.77
WINSTON	0.14		0.00	0.18	0.18	1.40
TOTAL	188.97		99.07	124.28	223.35	
AVERAGE						1.32

Table 30. Monthly irrigation groundwater withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	1.46	1.87	2.20	2.67	3.76	5.10	5.30	5.15	4.36	3.93	2.53	1.94	3.36
BALDWIN	22.30	28.87	32.33	38.23	50.56	64.70	67.06	69.45	64.31	59.09	39.05	30.13	47.28
BARBOUR	0.07	0.06	0.24	0.38	0.88	1.57	1.66	1.18	0.44	0.29	0.08	0.05	0.58
BIBB	0.01	0.01	0.02	0.02	0.05	0.08	0.09	0.06	0.03	0.02	0.01	0.01	0.03
BLOUNT	0.05	0.05	0.10	0.14	0.28	0.47	0.50	0.38	0.19	0.15	0.07	0.05	0.20
BULLOCK	0.30	0.36	0.52	0.69	1.16	1.79	1.88	1.58	1.02	0.85	0.49	0.37	0.92
BUTLER	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01
CALHOUN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHAMBERS	0.02	0.02	0.04	0.05	0.09	0.14	0.15	0.12	0.07	0.06	0.03	0.02	0.07
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.09	0.11	0.18	0.24	0.43	0.69	0.72	0.58	0.34	0.27	0.15	0.11	0.33
CHOCTAW	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
CLARKE	0.00	0.00	0.01	0.01	0.03	0.06	0.06	0.05	0.02	0.01	0.00	0.00	0.02
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	0.17	0.20	0.35	0.49	0.93	1.52	1.60	1.25	0.67	0.53	0.26	0.19	0.68
COLBERT	0.10	0.08	0.33	0.52	1.20	2.14	2.26	1.61	0.60	0.39	0.11	0.06	0.79
CONECUH	0.01	0.01	0.02	0.04	0.08	0.14	0.15	0.11	0.04	0.03	0.01	0.01	0.05
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	0.00
COVINGTON	0.54	0.69	0.82	1.00	1.44	1.98	2.06	1.97	1.63	1.46	0.93	0.71	1.27
CRENSHAW	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
CULLMAN	0.10	0.12	0.16	0.21	0.35	0.52	0.55	0.47	0.32	0.27	0.16	0.12	0.28
DALE	0.06	0.06	0.15	0.22	0.48	0.83	0.87	0.64	0.28	0.20	0.08	0.05	0.33
DALLAS	0.34	0.44	0.48	0.56	0.72	0.90	0.93	0.99	0.96	0.89	0.59	0.46	0.69
DEKALB	0.24	0.31	0.34	0.40	0.52	0.66	0.68	0.72	0.68	0.62	0.41	0.32	0.49
ELMORE	0.12	0.13	0.29	0.42	0.86	1.47	1.55	1.16	0.54	0.40	0.17	0.12	0.61
ESCAMBIA	0.33	0.41	0.57	0.75	1.25	1.91	2.00	1.70	1.12	0.95	0.55	0.41	1.00
ETOWAH	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
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.77	0.92	1.39	1.86	3.25	5.11	5.36	4.41	2.69	2.23	1.23	0.92	2.52
GREENE	0.12	0.15	0.20	0.25	0.39	0.58	0.60	0.53	0.38	0.33	0.20	0.15	0.33
HALE	0.13	0.11	0.39	0.61	1.38	2.46	2.60	1.86	0.72	0.48	0.14	0.09	0.92
HENRY	0.34	0.39	0.72	1.02	1.97	3.26	3.43	2.65	1.37	1.07	0.52	0.38	1.43

Table 30. Monthly irrigation groundwater withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	0.91	0.92	2.33	3.52	7.53	13.07	13.78	10.12	4.36	3.12	1.20	0.82	5.17
JACKSON	0.13	0.17	0.19	0.22	0.29	0.36	0.37	0.40	0.38	0.35	0.24	0.18	0.27
JEFFERSON	0.04	0.05	0.06	0.07	0.09	0.11	0.11	0.12	0.11	0.11	0.07	0.05	0.08
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	0.24	0.31	0.37	0.44	0.63	0.85	0.89	0.86	0.72	0.65	0.42	0.32	0.56
LAWRENCE	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.06	0.04	0.03	0.05
LEE	0.12	0.15	0.18	0.23	0.33	0.47	0.49	0.46	0.36	0.32	0.20	0.15	0.29
LIMESTONE	0.92	1.15	1.50	1.90	2.98	4.38	4.58	4.06	2.94	2.55	1.54	1.17	2.48
LOWNDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACON	1.07	1.38	1.60	1.92	2.64	3.51	3.64	3.62	3.16	2.87	1.87	1.44	2.40
MADISON	1.25	1.42	2.55	3.58	6.84	11.27	11.86	9.23	4.87	3.82	1.89	1.39	5.02
MARENGO	0.02	0.02	0.07	0.11	0.26	0.47	0.49	0.35	0.13	0.09	0.02	0.01	0.17
MARION	0.02	0.01	0.05	0.08	0.17	0.30	0.32	0.23	0.09	0.06	0.02	0.01	0.11
MARSHALL	0.38	0.50	0.55	0.64	0.82	1.03	1.06	1.13	1.09	1.01	0.67	0.52	0.79
MOBILE	3.94	5.07	5.81	6.94	9.47	12.45	12.93	12.98	11.53	10.50	6.86	5.28	8.67
MONROE	0.05	0.05	0.17	0.27	0.62	1.11	1.17	0.83	0.31	0.21	0.06	0.04	0.41
MONTGOMERY	2.08	2.70	2.97	3.48	4.47	5.56	5.76	6.15	5.92	5.48	3.66	2.83	4.26
MORGAN	0.08	0.10	0.11	0.13	0.16	0.20	0.21	0.23	0.22	0.20	0.13	0.10	0.16
PERRY	0.07	0.06	0.22	0.35	0.82	1.46	1.54	1.09	0.41	0.27	0.07	0.04	0.54
PICKENS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIKE	0.05	0.04	0.17	0.27	0.63	1.13	1.19	0.84	0.31	0.20	0.05	0.03	0.41
RANDOLPH	0.01	0.01	0.01	0.02	0.03	0.05	0.05	0.05	0.03	0.02	0.01	0.01	0.03
RUSSELL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHELBY	0.13	0.17	0.21	0.27	0.40	0.58	0.61	0.55	0.42	0.37	0.23	0.17	0.34
ST CLAIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMTER	0.06	0.05	0.21	0.33	0.76	1.36	1.43	1.02	0.38	0.25	0.07	0.04	0.50
TALLADEGA	0.08	0.06	0.25	0.40	0.93	1.66	1.75	1.24	0.46	0.30	0.08	0.05	0.61
TALLAPOOSA	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
TUSCALOOSA	0.54	0.68	0.84	1.03	1.53	2.16	2.26	2.09	1.65	1.46	0.92	0.70	1.33
WALKER	0.02	0.02	0.03	0.03	0.05	0.08	0.08	0.07	0.06	0.05	0.03	0.02	0.05
WASHINGTON	0.03	0.03	0.04	0.05	0.08	0.11	0.12	0.11	0.08	0.07	0.05	0.04	0.07
WILCOX	0.01	0.01	0.03	0.04	0.09	0.17	0.18	0.13	0.05	0.03	0.01	0.00	0.06
WINSTON	0.00	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	**39.96**	**50.58**	**62.42**	**77.20**	**114.82**	**162.11**	**169.09**	**156.70**	**122.94**	**109.00**	**68.22**	**52.19**	**99.07**

Table 31. Monthly irrigation surface-water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
BALDWIN	1.37	3.99	5.52	8.87	14.25	17.98	18.61	19.82	17.34	14.14	7.17	4.22	11.15
BARBOUR	0.27	0.55	1.05	1.73	3.30	5.03	5.24	4.68	3.06	2.39	0.91	0.54	2.41
BIBB	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
BLOUNT	0.21	0.15	0.28	0.72	1.22	1.55	1.60	1.68	1.44	1.15	0.28	0.17	0.88
BULLOCK	0.10	0.31	0.50	0.79	1.43	2.11	2.18	2.06	1.44	1.15	0.51	0.31	1.08
BUTLER	0.23	0.20	0.43	0.71	1.41	1.77	1.93	1.75	1.56	1.14	0.51	0.21	0.99
CALHOUN	0.50	0.89	1.45	2.42	4.22	5.48	5.76	5.71	4.83	3.80	1.73	0.94	3.16
CHAMBERS	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
CHEROKEE	0.16	1.12	1.48	2.17	3.48	4.72	4.82	5.16	4.18	3.49	1.86	1.14	2.83
CHILTON	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
CHOCTAW	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
CLARKE	0.09	0.07	0.09	0.27	0.36	0.40	0.41	0.43	0.39	0.33	0.12	0.10	0.26
CLAY	0.05	0.06	0.06	0.17	0.18	0.20	0.20	0.16	0.11	0.10	0.09	0.08	0.12
CLEBURNE	0.01	0.04	0.07	0.10	0.19	0.30	0.32	0.27	0.16	0.12	0.06	0.04	0.14
COFFEE	0.36	0.71	1.41	2.29	4.44	6.95	7.25	6.26	3.82	2.95	1.14	0.68	3.20
COLBERT	0.33	0.29	0.71	1.23	2.46	3.68	3.92	3.11	1.92	1.38	0.58	0.30	1.67
CONECUH	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
COOSA	0.05	0.05	0.05	0.15	0.15	0.15	0.15	0.12	0.08	0.08	0.08	0.08	0.10
COVINGTON	0.25	0.85	1.10	1.84	2.79	3.61	3.68	3.92	3.25	2.72	1.40	0.91	2.20
CRENSHAW	0.11	0.10	0.25	0.47	0.88	1.46	1.53	1.09	0.44	0.31	0.14	0.11	0.58
CULLMAN	0.15	0.21	0.29	0.63	0.88	1.10	1.12	1.07	0.82	0.69	0.34	0.26	0.63
DALE	0.28	0.20	0.64	1.22	2.56	4.06	4.26	3.56	2.11	1.56	0.33	0.17	1.76
DALLAS	0.29	0.71	1.17	1.92	3.41	5.07	5.26	4.77	3.19	2.54	1.14	0.72	2.53
DEKALB	0.25	0.86	1.07	1.83	2.67	3.23	3.27	3.81	3.45	2.92	1.46	0.94	2.15
ELMORE	0.37	0.65	1.14	1.88	3.40	4.78	5.03	4.56	3.35	2.60	1.20	0.68	2.48
ESCAMBIA	0.14	0.20	0.30	0.63	1.01	1.31	1.35	1.38	1.12	0.91	0.34	0.22	0.75
ETOWAH	0.31	0.26	0.39	0.97	1.42	1.66	1.72	1.71	1.50	1.22	0.48	0.33	1.00
FAYETTE	0.06	0.04	0.13	0.26	0.53	0.82	0.86	0.75	0.47	0.36	0.07	0.04	0.37
FRANKLIN	0.14	0.19	0.36	0.68	1.19	1.77	1.85	1.57	0.97	0.76	0.31	0.21	0.84
GENEVA	0.29	0.82	1.43	2.21	4.08	6.38	6.64	5.63	3.32	2.60	1.29	0.83	2.97
GREENE	0.05	0.05	0.06	0.17	0.20	0.24	0.24	0.18	0.10	0.09	0.08	0.08	0.13
HALE	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
HENRY	0.45	0.99	2.03	3.14	6.27	10.22	10.69	8.71	4.73	3.58	1.53	0.93	4.46

Table 31. Monthly irrigation surface-water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	0.44	0.35	0.98	1.68	3.52	5.30	5.64	4.65	3.03	2.19	0.75	0.34	2.42
JACKSON	0.26	0.20	0.35	0.90	1.43	1.81	1.87	1.88	1.55	1.25	0.36	0.25	1.02
JEFFERSON	1.46	1.16	2.19	4.73	8.14	9.86	10.42	10.55	9.60	7.46	2.57	1.34	5.82
LAMAR	0.05	0.03	0.08	0.17	0.34	0.48	0.50	0.49	0.38	0.29	0.06	0.03	0.24
LAUDERDALE	0.27	0.36	0.53	1.09	1.69	2.04	2.11	2.21	1.96	1.59	0.67	0.42	1.25
LAWRENCE	0.37	0.33	1.04	1.78	3.82	6.55	6.90	5.07	2.16	1.50	0.46	0.30	2.54
LEE	0.42	0.78	1.26	2.16	3.80	4.91	5.12	5.39	4.69	3.74	1.49	0.80	2.89
LIMESTONE	0.93	1.13	3.09	5.07	10.75	18.20	19.13	14.59	6.84	4.90	1.66	1.02	7.32
LOWNDES	0.35	2.08	2.98	4.31	7.35	10.66	10.98	10.65	7.67	6.29	3.38	2.09	5.75
MACON	0.17	1.45	1.91	2.72	4.37	6.00	6.14	6.45	5.10	4.26	2.38	1.47	3.55
MADISON	0.73	0.71	1.56	3.01	5.79	8.09	8.48	8.14	6.30	4.87	1.41	0.69	4.17
MARENGO	0.09	0.07	0.09	0.27	0.36	0.40	0.41	0.43	0.39	0.33	0.12	0.10	0.26
MARION	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
MARSHALL	0.28	0.16	0.36	0.97	1.74	2.09	2.15	2.61	2.53	2.03	0.37	0.17	1.30
MOBILE	0.52	0.44	0.85	1.81	3.17	4.03	4.24	4.21	3.61	2.82	0.92	0.49	2.27
MONROE	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
MONTGOMERY	0.42	0.30	0.70	1.53	2.86	3.96	4.14	3.95	3.05	2.36	0.60	0.31	2.03
MORGAN	0.19	0.11	0.26	0.66	1.21	1.52	1.57	1.79	1.64	1.31	0.24	0.11	0.89
PERRY	0.05	0.05	0.05	0.15	0.15	0.15	0.15	0.12	0.08	0.08	0.08	0.08	0.10
PICKENS	0.30	0.25	0.80	1.40	2.95	5.02	5.29	3.90	1.69	1.18	0.35	0.23	1.96
PIKE	0.16	0.13	0.40	0.73	1.54	2.47	2.59	2.14	1.22	0.90	0.22	0.12	1.06
RANDOLPH	0.05	0.05	0.06	0.16	0.17	0.19	0.19	0.14	0.09	0.08	0.08	0.08	0.11
RUSSELL	0.37	3.07	4.00	5.74	9.16	12.42	12.67	13.56	10.98	9.19	5.06	3.12	7.47
SHELBY	0.07	0.61	0.74	1.09	1.62	2.00	2.01	2.46	2.28	1.93	1.03	0.63	1.38
ST CLAIR	0.46	1.90	2.53	4.06	6.45	8.34	8.50	9.51	8.20	6.83	3.22	1.97	5.18
SUMTER	0.09	0.07	0.09	0.27	0.36	0.40	0.41	0.43	0.39	0.33	0.12	0.10	0.26
TALLADEGA	0.46	1.05	1.89	3.04	5.69	8.53	8.89	8.04	5.40	4.24	1.77	1.04	4.19
TALLAPOOSA	0.16	0.10	0.30	0.63	1.27	1.89	1.98	1.81	1.26	0.96	0.19	0.09	0.89
TUSCALOOSA	0.37	1.71	2.24	3.43	5.39	6.88	7.05	7.80	6.80	5.65	2.95	1.78	4.35
WALKER	0.20	0.16	0.23	0.66	0.94	1.06	1.08	1.18	1.09	0.91	0.29	0.21	0.67
WASHINGTON	0.03	0.02	0.04	0.12	0.21	0.25	0.26	0.32	0.31	0.25	0.05	0.02	0.16
WILCOX	0.06	0.19	0.22	0.38	0.49	0.57	0.57	0.62	0.54	0.47	0.31	0.22	0.39
WINSTON	0.04	0.02	0.05	0.13	0.24	0.30	0.31	0.35	0.33	0.26	0.05	0.02	0.18
TOTAL	**16.98**	**33.81**	**55.73**	**95.41**	**167.24**	**234.67**	**243.96**	**232.26**	**173.10**	**137.80**	**58.76**	**35.02**	**124.28**

Table 32. Monthly irrigation total water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	1.50	1.89	2.24	2.79	3.97	5.35	5.56	5.47	4.67	4.18	2.57	1.96	3.52
BALDWIN	23.67	32.86	37.86	47.10	64.81	82.67	85.67	89.27	81.65	73.23	46.22	34.36	58.42
BARBOUR	0.35	0.61	1.28	2.11	4.18	6.60	6.89	5.86	3.49	2.67	0.98	0.58	2.98
BIBB	0.04	0.03	0.06	0.14	0.26	0.33	0.34	0.38	0.35	0.28	0.06	0.03	0.19
BLOUNT	0.25	0.20	0.38	0.86	1.50	2.02	2.10	2.06	1.63	1.30	0.35	0.22	1.08
BULLOCK	0.40	0.67	1.02	1.48	2.59	3.90	4.06	3.63	2.46	2.01	1.00	0.67	2.00
BUTLER	0.23	0.20	0.44	0.72	1.43	1.80	1.96	1.77	1.57	1.15	0.52	0.21	1.01
CALHOUN	0.50	0.89	1.45	2.42	4.22	5.48	5.76	5.71	4.83	3.80	1.73	0.94	3.16
CHAMBERS	0.05	0.04	0.08	0.17	0.30	0.39	0.41	0.44	0.38	0.31	0.08	0.04	0.22
CHEROKEE	0.16	1.12	1.48	2.17	3.48	4.72	4.82	5.16	4.18	3.49	1.86	1.14	2.83
CHILTON	0.13	0.13	0.22	0.36	0.64	0.94	0.98	0.90	0.65	0.53	0.19	0.13	0.48
CHOCTAW	0.03	0.02	0.04	0.12	0.21	0.26	0.26	0.32	0.31	0.25	0.05	0.02	0.16
CLARKE	0.09	0.07	0.10	0.28	0.40	0.46	0.47	0.48	0.41	0.34	0.12	0.10	0.28
CLAY	0.05	0.06	0.06	0.17	0.18	0.20	0.20	0.16	0.11	0.10	0.09	0.08	0.12
CLEBURNE	0.01	0.04	0.07	0.10	0.19	0.30	0.32	0.27	0.16	0.12	0.06	0.04	0.14
COFFEE	0.53	0.91	1.75	2.77	5.37	8.47	8.85	7.50	4.49	3.48	1.41	0.87	3.89
COLBERT	0.43	0.37	1.04	1.75	3.66	5.83	6.19	4.72	2.52	1.78	0.68	0.36	2.46
CONECUH	0.04	0.03	0.07	0.15	0.29	0.39	0.41	0.43	0.36	0.28	0.06	0.03	0.21
COOSA	0.05	0.05	0.05	0.16	0.16	0.16	0.16	0.12	0.08	0.08	0.08	0.08	0.10
COVINGTON	0.79	1.53	1.92	2.84	4.23	5.59	5.74	5.89	4.87	4.18	2.33	1.62	3.47
CRENSHAW	0.11	0.10	0.25	0.47	0.89	1.46	1.54	1.10	0.45	0.32	0.14	0.12	0.58
CULLMAN	0.25	0.33	0.45	0.84	1.22	1.62	1.67	1.54	1.14	0.96	0.50	0.38	0.91
DALE	0.34	0.26	0.79	1.44	3.03	4.89	5.14	4.21	2.39	1.76	0.41	0.22	2.09
DALLAS	0.62	1.14	1.65	2.48	4.14	5.97	6.19	5.77	4.14	3.43	1.74	1.18	3.22
DEKALB	0.49	1.17	1.41	2.23	3.19	3.89	3.95	4.53	4.13	3.54	1.87	1.26	2.65
ELMORE	0.50	0.78	1.42	2.30	4.26	6.25	6.58	5.72	3.89	3.00	1.37	0.80	3.09
ESCAMBIA	0.48	0.61	0.88	1.38	2.26	3.22	3.35	3.07	2.24	1.86	0.89	0.64	1.75
ETOWAH	0.31	0.26	0.39	0.98	1.43	1.66	1.73	1.72	1.51	1.22	0.49	0.34	1.01
FAYETTE	0.06	0.04	0.13	0.26	0.53	0.82	0.86	0.75	0.47	0.36	0.07	0.04	0.37
FRANKLIN	0.14	0.19	0.36	0.68	1.19	1.77	1.85	1.57	0.97	0.76	0.31	0.21	0.84
GENEVA	1.06	1.75	2.82	4.07	7.33	11.49	12.01	10.04	6.01	4.83	2.53	1.75	5.50
GREENE	0.17	0.20	0.26	0.42	0.59	0.81	0.84	0.71	0.48	0.42	0.28	0.23	0.45
HALE	0.16	0.13	0.43	0.73	1.59	2.71	2.85	2.17	1.03	0.73	0.19	0.11	1.08
HENRY	0.79	1.38	2.75	4.15	8.23	13.48	14.12	11.37	6.10	4.65	2.05	1.31	5.89

Table 32. Monthly irrigation total water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	1.35	1.27	3.31	5.20	11.05	18.36	19.42	14.77	7.39	5.31	1.95	1.16	7.59
JACKSON	0.40	0.37	0.54	1.12	1.72	2.17	2.24	2.28	1.93	1.60	0.59	0.43	1.29
JEFFERSON	1.50	1.21	2.25	4.80	8.23	9.97	10.54	10.67	9.71	7.57	2.64	1.39	5.90
LAMAR	0.05	0.03	0.08	0.17	0.34	0.48	0.50	0.49	0.38	0.29	0.06	0.03	0.24
LAUDERDALE	0.51	0.67	0.90	1.54	2.31	2.89	3.00	3.07	2.68	2.24	1.09	0.74	1.81
LAWRENCE	0.39	0.36	1.08	1.82	3.87	6.62	6.97	5.15	2.23	1.57	0.50	0.33	2.59
LEE	0.53	0.93	1.44	2.39	4.14	5.38	5.61	5.85	5.05	4.06	1.70	0.95	3.18
LIMESTONE	1.85	2.28	4.59	6.97	13.73	22.58	23.71	18.65	9.77	7.45	3.21	2.19	9.80
LOWNDES	0.35	2.08	2.98	4.31	7.35	10.66	10.98	10.65	7.67	6.29	3.38	2.09	5.75
MACON	1.24	2.83	3.50	4.63	7.01	9.51	9.78	10.06	8.27	7.14	4.24	2.91	5.94
MADISON	1.97	2.13	4.11	6.59	12.63	19.36	20.34	17.37	11.18	8.69	3.30	2.08	9.19
MARENGO	0.11	0.09	0.16	0.38	0.62	0.87	0.90	0.78	0.52	0.41	0.14	0.11	0.43
MARION	0.05	0.03	0.09	0.19	0.38	0.55	0.58	0.55	0.40	0.31	0.06	0.03	0.27
MARSHALL	0.66	0.66	0.91	1.61	2.56	3.11	3.21	3.74	3.62	3.04	1.05	0.69	2.08
MOBILE	4.46	5.51	6.66	8.76	12.64	16.49	17.17	17.19	15.14	13.32	7.78	5.77	10.94
MONROE	0.09	0.07	0.21	0.39	0.83	1.36	1.43	1.15	0.63	0.46	0.10	0.06	0.57
MONTGOMERY	2.50	3.00	3.67	5.01	7.33	9.52	9.89	10.10	8.97	7.84	4.26	3.14	6.29
MORGAN	0.26	0.21	0.37	0.79	1.37	1.72	1.78	2.02	1.86	1.51	0.38	0.21	1.04
PERRY	0.12	0.11	0.27	0.51	0.97	1.61	1.69	1.21	0.48	0.34	0.15	0.12	0.63
PICKENS	0.30	0.25	0.80	1.40	2.95	5.02	5.29	3.90	1.69	1.18	0.35	0.23	1.96
PIKE	0.21	0.18	0.57	1.00	2.16	3.59	3.78	2.98	1.53	1.11	0.27	0.15	1.47
RANDOLPH	0.06	0.06	0.07	0.18	0.20	0.24	0.24	0.18	0.12	0.11	0.09	0.09	0.14
RUSSELL	0.37	3.07	4.00	5.74	9.16	12.42	12.67	13.56	10.98	9.19	5.06	3.12	7.47
SHELBY	0.20	0.78	0.95	1.35	2.03	2.58	2.62	3.02	2.69	2.30	1.25	0.80	1.72
ST CLAIR	0.46	1.90	2.53	4.06	6.45	8.34	8.50	9.51	8.20	6.83	3.22	1.97	5.18
SUMTER	0.15	0.12	0.30	0.60	1.12	1.76	1.84	1.45	0.77	0.57	0.19	0.13	0.75
TALLADEGA	0.54	1.12	2.14	3.44	6.61	10.19	10.64	9.28	5.86	4.54	1.85	1.08	4.80
TALLAPOOSA	0.17	0.12	0.32	0.65	1.30	1.92	2.01	1.84	1.29	0.99	0.21	0.11	0.92
TUSCALOOSA	0.91	2.39	3.08	4.47	6.93	9.04	9.31	9.89	8.45	7.11	3.87	2.48	5.68
WALKER	0.22	0.18	0.26	0.69	0.99	1.13	1.16	1.26	1.15	0.95	0.32	0.23	0.72
WASHINGTON	0.06	0.05	0.09	0.17	0.29	0.36	0.37	0.43	0.40	0.33	0.09	0.06	0.23
WILCOX	0.07	0.20	0.24	0.42	0.58	0.74	0.75	0.75	0.59	0.51	0.32	0.22	0.45
WINSTON	0.04	0.02	0.05	0.13	0.24	0.30	0.31	0.35	0.33	0.26	0.05	0.02	0.18
TOTAL	**56.94**	**84.39**	**118.15**	**172.61**	**282.06**	**396.78**	**413.05**	**388.97**	**296.04**	**246.80**	**126.97**	**87.22**	**223.35**

Table 33. Irrigation freshwater withdrawals by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day		
	Groundwater	Surface water	Total
Apalachicola			
03130002	0.12	0.53	0.65
03130003	0.73	9.90	10.63
03130004	2.89	3.40	6.30
03130012	2.32	0.85	3.17
Subtotal	*6.06*	*14.67*	*20.74*
Chocawhatchee-Escambia			
03140103	0.60	1.10	1.69
03140104	0.16	0.14	0.30
03140106	14.47	2.51	16.98
03140107	6.35	1.89	8.24
03140201	3.10	7.16	10.27
03140202	1.95	4.23	6.17
03140203	0.60	0.66	1.26
03140301	0.69	1.57	2.26
03140302	0.58	0.61	1.19
03140303	0.14	1.31	1.44
03140304	0.58	0.59	1.17
03140305	0.27	0.24	0.51
Subtotal	*29.50*	*22.00*	*51.50*
Alabama			
03150105	0.09	3.47	3.56
03150106	0.54	10.84	11.38
03150107	0.83	3.71	4.53
03150108	0.01	0.10	0.12
03150109	0.11	1.16	1.27
03150110	3.82	7.58	11.40
03150201	6.75	7.48	14.23
03150202	0.62	5.61	6.23
03150203	0.67	3.15	3.81
03150204	5.43	0.91	6.34
Subtotal	*18.86*	*44.00*	*62.87*
Mobile-Tombigbee			
03160101	0.01	0.06	0.07
03160103	0.07	0.19	0.26
03160105	0.01	0.36	0.37
03160106	0.10	1.61	1.72
03160107	0.25	0.94	1.20
03160108	0.24	0.04	0.29
03160109	0.24	0.82	1.06
03160110	0.13	0.95	1.08
03160111	0.31	2.46	2.76
03160112	0.74	3.63	4.37
03160113	1.50	1.61	3.11
03160201	0.27	0.57	0.84
03160202	0.21	0.26	0.46
03160203	0.24	0.28	0.51
03160204	11.61	2.57	14.18
03160205	14.35	4.68	19.03
Subtotal	*30.29*	*21.02*	*51.30*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	2.34	0.82	3.16
03170009	1.70	0.23	1.93
Subtotal	*4.04*	*1.05*	*5.09*
Middle Tennessee-Hiwassee			
06020001	0.03	0.09	0.12
Subtotal	*0.03*	*0.09*	*0.12*
Middle Tennessee-Elk			
06030001	0.91	2.68	3.60
06030002	7.27	11.82	19.09
06030003	0.00	0.00	0.00
06030004	0.82	2.24	3.07
06030005	1.01	3.82	4.83
06030006	0.27	0.89	1.16
Subtotal	*10.28*	*21.45*	*31.73*
Total	**99.07**	**124.28**	**223.35**

Table 34. Monthly irrigation groundwater withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.04	0.05	0.07	0.09	0.14	0.21	0.22	0.19	0.14	0.12	0.07	0.06	0.12
03130003	0.19	0.21	0.38	0.52	0.99	1.62	1.71	1.34	0.72	0.57	0.28	0.21	0.73
03130004	0.57	0.60	1.35	1.99	4.14	7.09	7.47	5.57	2.54	1.87	0.78	0.55	2.89
03130012	0.41	0.42	1.05	1.58	3.38	5.85	6.17	4.54	1.97	1.41	0.55	0.38	2.32
Subtotal	*1.21*	*1.28*	*2.85*	*4.19*	*8.65*	*14.78*	*15.57*	*11.63*	*5.36*	*3.96*	*1.69*	*1.19*	*6.06*
Chocawhatchee-Escambia													
03140103	0.25	0.32	0.38	0.47	0.68	0.94	0.97	0.93	0.76	0.68	0.43	0.33	0.60
03140104	0.06	0.08	0.10	0.13	0.20	0.28	0.30	0.27	0.20	0.17	0.11	0.08	0.16
03140106	6.82	8.82	9.89	11.70	15.49	19.84	20.57	21.28	19.67	18.07	11.94	9.21	14.47
03140107	3.00	3.88	4.34	5.14	6.80	8.70	9.01	9.33	8.64	7.94	5.25	4.05	6.35
03140201	0.73	0.82	1.55	2.19	4.28	7.13	7.50	5.77	2.94	2.27	1.09	0.79	3.10
03140202	0.53	0.62	1.03	1.41	2.59	4.17	4.39	3.49	1.97	1.59	0.83	0.62	1.95
03140203	0.18	0.21	0.33	0.44	0.79	1.24	1.30	1.06	0.64	0.52	0.29	0.21	0.60
03140301	0.23	0.28	0.40	0.52	0.87	1.33	1.40	1.18	0.77	0.65	0.37	0.28	0.69
03140302	0.27	0.34	0.39	0.46	0.63	0.82	0.85	0.86	0.77	0.71	0.46	0.36	0.58
03140303	0.05	0.06	0.08	0.10	0.17	0.25	0.26	0.23	0.16	0.14	0.08	0.06	0.14
03140304	0.19	0.23	0.33	0.43	0.73	1.13	1.18	0.99	0.63	0.53	0.30	0.23	0.58
03140305	0.08	0.10	0.15	0.20	0.35	0.54	0.57	0.47	0.29	0.24	0.14	0.10	0.27
Subtotal	*12.38*	*15.77*	*18.97*	*23.19*	*33.55*	*46.37*	*48.30*	*45.86*	*37.45*	*33.52*	*21.29*	*16.32*	*29.50*
Alabama													
03150105	0.04	0.06	0.06	0.07	0.09	0.12	0.12	0.13	0.12	0.11	0.08	0.06	0.09
03150106	0.12	0.13	0.27	0.38	0.76	1.27	1.34	1.02	0.50	0.38	0.18	0.13	0.54
03150107	0.21	0.25	0.43	0.59	1.12	1.83	1.92	1.51	0.82	0.65	0.33	0.24	0.83
03150108	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.02	0.01	0.01	0.01	0.01	0.01
03150109	0.03	0.04	0.06	0.08	0.15	0.23	0.24	0.20	0.12	0.09	0.05	0.04	0.11
03150110	1.62	2.07	2.47	3.01	4.32	5.92	6.17	5.90	4.88	4.38	2.80	2.15	3.82
03150201	3.06	3.94	4.52	5.41	7.38	9.72	10.10	10.12	8.97	8.17	5.33	4.10	6.75
03150202	0.16	0.18	0.32	0.44	0.83	1.35	1.42	1.12	0.61	0.48	0.25	0.18	0.62
03150203	0.23	0.29	0.39	0.50	0.82	1.24	1.30	1.12	0.76	0.65	0.38	0.29	0.67
03150204	2.43	3.13	3.61	4.34	5.97	7.92	8.23	8.18	7.16	6.51	4.23	3.26	5.43
Subtotal	*7.92*	*10.09*	*12.13*	*14.84*	*21.45*	*29.64*	*30.87*	*29.32*	*23.96*	*21.44*	*13.62*	*10.45*	*18.86*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.01	0.01	0.03	0.03	0.02	0.01	0.01	0.00	0.00	0.01

Table 34. Monthly irrigation groundwater withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.01	0.01	0.03	0.05	0.11	0.19	0.20	0.14	0.06	0.04	0.01	0.01	0.07
03160105	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.01
03160106	0.01	0.01	0.04	0.07	0.16	0.28	0.29	0.21	0.08	0.05	0.01	0.01	0.10
03160107	0.10	0.12	0.16	0.19	0.30	0.44	0.46	0.41	0.30	0.27	0.16	0.12	0.25
03160108	0.07	0.09	0.13	0.18	0.32	0.50	0.52	0.43	0.26	0.21	0.12	0.09	0.24
03160109	0.08	0.10	0.14	0.18	0.30	0.46	0.49	0.41	0.28	0.23	0.14	0.10	0.24
03160110	0.05	0.06	0.08	0.10	0.16	0.24	0.25	0.22	0.15	0.13	0.08	0.06	0.13
03160111	0.11	0.14	0.18	0.23	0.37	0.55	0.58	0.51	0.36	0.31	0.18	0.14	0.31
03160112	0.30	0.38	0.47	0.58	0.86	1.21	1.26	1.17	0.93	0.82	0.52	0.40	0.74
03160113	0.33	0.37	0.73	1.05	2.09	3.52	3.70	2.82	1.39	1.06	0.49	0.35	1.50
03160201	0.03	0.03	0.11	0.18	0.41	0.74	0.78	0.55	0.21	0.13	0.04	0.02	0.27
03160202	0.03	0.02	0.09	0.14	0.32	0.57	0.60	0.43	0.16	0.10	0.03	0.02	0.21
03160203	0.10	0.13	0.16	0.19	0.27	0.36	0.38	0.37	0.31	0.28	0.18	0.14	0.24
03160204	5.43	7.02	7.90	9.37	12.48	16.08	16.67	17.13	15.70	14.40	9.49	7.32	11.61
03160205	6.74	8.72	9.79	11.59	15.38	19.75	20.48	21.13	19.46	17.86	11.79	9.09	14.35
Subtotal	*13.40*	*17.19*	*20.01*	*24.11*	*33.55*	*44.93*	*46.71*	*45.96*	*39.65*	*35.91*	*23.23*	*17.87*	*30.29*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	1.06	1.37	1.57	1.87	2.55	3.36	3.49	3.50	3.11	2.83	1.85	1.42	2.34
03170009	0.77	1.00	1.14	1.37	1.86	2.45	2.54	2.55	2.27	2.07	1.35	1.04	1.70
Subtotal	*1.84*	*2.36*	*2.71*	*3.24*	*4.42*	*5.81*	*6.03*	*6.06*	*5.38*	*4.90*	*3.20*	*2.46*	*4.04*
Middle Tennessee-Hiwassee													
06020001	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.03
Subtotal	*0.01*	*0.02*	*0.02*	*0.02*	*0.03*	*0.04*	*0.04*	*0.04*	*0.04*	*0.04*	*0.03*	*0.02*	*0.03*
Middle Tennessee-Elk													
06030001	0.44	0.57	0.63	0.74	0.97	1.21	1.25	1.33	1.26	1.17	0.78	0.60	0.91
06030002	2.14	2.55	3.95	5.32	9.47	15.01	15.76	12.81	7.63	6.26	3.41	2.54	7.27
06030003	0.00	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	0.31	0.39	0.50	0.63	0.99	1.44	1.51	1.34	0.98	0.85	0.52	0.39	0.82
06030005	0.27	0.32	0.53	0.73	1.34	2.16	2.27	1.81	1.02	0.82	0.43	0.32	1.01
06030006	0.03	0.03	0.11	0.18	0.40	0.72	0.76	0.54	0.20	0.13	0.04	0.02	0.27
Subtotal	*3.20*	*3.86*	*5.73*	*7.60*	*13.16*	*20.55*	*21.56*	*17.83*	*11.10*	*9.23*	*5.17*	*3.88*	*10.28*
Total	**39.96**	**50.58**	**62.42**	**77.20**	**114.82**	**162.11**	**169.09**	**156.70**	**122.94**	**109.00**	**68.22**	**52.19**	**99.07**

Table 35. Monthly irrigation surface-water withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.05	0.17	0.24	0.40	0.67	0.89	0.91	0.99	0.84	0.69	0.29	0.17	0.53
03130003	0.65	3.64	5.04	7.51	12.45	17.27	17.71	18.28	14.28	11.80	6.03	3.69	9.90
03130004	0.38	0.68	1.49	2.39	4.81	7.82	8.19	6.70	3.68	2.77	1.06	0.64	3.40
03130012	0.13	0.10	0.31	0.59	1.22	1.92	2.02	1.71	1.04	0.78	0.17	0.09	0.85
Subtotal	*1.22*	*4.59*	*7.08*	*10.89*	*19.16*	*27.90*	*28.83*	*27.68*	*19.84*	*16.04*	*7.55*	*4.59*	*14.67*
Chocawhatchee-Escambia													
03140103	0.13	0.41	0.54	0.91	1.40	1.84	1.88	1.96	1.59	1.32	0.67	0.44	1.10
03140104	0.01	0.06	0.07	0.11	0.17	0.24	0.25	0.25	0.20	0.17	0.09	0.06	0.14
03140106	0.20	1.03	1.30	2.02	3.07	3.91	3.97	4.49	3.90	3.29	1.72	1.08	2.51
03140107	0.31	0.66	0.94	1.57	2.49	3.11	3.25	3.25	2.79	2.25	1.22	0.73	1.89
03140201	0.97	1.47	3.11	5.14	10.11	15.64	16.43	13.81	8.47	6.40	2.52	1.43	7.16
03140202	0.42	1.01	1.93	3.02	5.84	9.24	9.64	8.20	4.85	3.75	1.60	0.97	4.23
03140203	0.06	0.18	0.31	0.47	0.90	1.43	1.49	1.26	0.74	0.57	0.28	0.17	0.66
03140301	0.24	0.37	0.66	1.22	2.16	3.09	3.20	2.99	2.13	1.70	0.63	0.39	1.57
03140302	0.11	0.14	0.28	0.50	0.90	1.42	1.49	1.13	0.55	0.41	0.21	0.16	0.61
03140303	0.24	0.31	0.60	0.95	1.81	2.35	2.53	2.33	1.98	1.48	0.70	0.32	1.31
03140304	0.13	0.15	0.23	0.52	0.81	1.01	1.04	1.09	0.93	0.76	0.26	0.17	0.59
03140305	0.04	0.05	0.08	0.18	0.32	0.41	0.42	0.47	0.41	0.33	0.09	0.05	0.24
Subtotal	*2.85*	*5.83*	*10.06*	*16.61*	*29.98*	*43.70*	*45.59*	*41.25*	*28.54*	*22.42*	*9.98*	*5.96*	*22.00*
Alabama													
03150105	0.29	1.32	1.75	2.74	4.33	5.72	5.84	6.32	5.25	4.38	2.20	1.37	3.47
03150106	1.20	3.58	5.24	8.38	14.04	18.93	19.59	19.83	15.92	12.91	6.23	3.71	10.84
03150107	0.51	1.06	1.65	2.91	4.93	6.74	6.98	6.90	5.35	4.32	1.82	1.11	3.71
03150108	0.01	0.03	0.05	0.07	0.14	0.22	0.23	0.20	0.11	0.09	0.04	0.03	0.10
03150109	0.26	0.24	0.44	0.99	1.65	2.29	2.37	2.15	1.52	1.21	0.40	0.28	1.16
03150110	0.79	2.36	3.55	5.69	9.79	13.29	13.74	14.14	11.44	9.26	4.13	2.40	7.58
03150201	0.92	2.22	3.53	5.75	9.99	14.10	14.66	13.83	10.16	8.11	3.82	2.30	7.48
03150202	1.12	1.24	2.19	4.32	7.58	9.37	9.83	10.43	9.52	7.50	2.59	1.32	5.61
03150203	0.25	1.10	1.61	2.42	4.10	5.98	6.17	5.80	4.02	3.28	1.77	1.12	3.15
03150204	0.06	0.36	0.46	0.71	1.11	1.43	1.45	1.67	1.47	1.23	0.60	0.37	0.91
Subtotal	*5.41*	*13.50*	*20.47*	*33.97*	*57.66*	*78.08*	*80.87*	*81.27*	*64.76*	*52.29*	*23.61*	*14.00*	*44.00*
Mobile-Tombigbee													
03160101	0.01	0.01	0.03	0.04	0.08	0.13	0.14	0.11	0.06	0.04	0.02	0.01	0.06

Table 35. Monthly irrigation surface-water withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.04	0.02	0.05	0.14	0.25	0.32	0.34	0.37	0.33	0.27	0.05	0.02	0.19
03160105	0.06	0.04	0.13	0.26	0.53	0.81	0.85	0.74	0.47	0.35	0.07	0.04	0.36
03160106	0.26	0.22	0.65	1.17	2.42	4.09	4.30	3.20	1.43	1.01	0.31	0.21	1.61
03160107	0.09	0.27	0.44	0.70	1.25	1.83	1.90	1.80	1.28	1.02	0.44	0.26	0.94
03160108	0.01	0.00	0.02	0.03	0.07	0.12	0.12	0.09	0.03	0.02	0.01	0.00	0.04
03160109	0.24	0.25	0.34	0.84	1.15	1.39	1.42	1.37	1.10	0.92	0.41	0.32	0.82
03160110	0.18	0.18	0.37	0.75	1.35	2.00	2.08	1.81	1.17	0.91	0.29	0.19	0.95
03160111	0.64	0.46	0.79	2.14	3.39	4.07	4.18	4.62	4.20	3.41	0.87	0.56	2.46
03160112	0.52	1.21	1.77	2.88	4.74	6.03	6.29	6.42	5.52	4.43	2.24	1.30	3.63
03160113	0.26	0.64	0.79	1.47	2.07	2.52	2.55	2.77	2.38	2.02	1.05	0.72	1.61
03160201	0.15	0.11	0.18	0.51	0.78	0.90	0.92	1.07	1.02	0.83	0.21	0.14	0.57
03160202	0.09	0.07	0.09	0.27	0.36	0.40	0.41	0.43	0.39	0.33	0.12	0.10	0.26
03160203	0.09	0.08	0.10	0.28	0.39	0.44	0.44	0.47	0.42	0.35	0.13	0.10	0.28
03160204	0.36	0.83	1.22	2.01	3.35	4.27	4.45	4.62	3.99	3.21	1.53	0.88	2.57
03160205	0.76	1.40	2.17	3.65	6.21	7.81	8.20	8.36	7.35	5.82	2.72	1.49	4.68
Subtotal	*3.74*	*5.79*	*9.15*	*17.13*	*28.40*	*37.13*	*38.60*	*38.25*	*31.14*	*24.95*	*10.50*	*6.34*	*21.02*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.20	0.15	0.27	0.69	1.13	1.38	1.42	1.57	1.42	1.15	0.29	0.17	0.82
03170009	0.04	0.03	0.07	0.17	0.31	0.42	0.43	0.46	0.38	0.30	0.07	0.03	0.23
Subtotal	*0.24*	*0.18*	*0.34*	*0.86*	*1.44*	*1.80*	*1.85*	*2.03*	*1.80*	*1.45*	*0.35*	*0.21*	*1.05*
Middle Tennessee-Hiwassee													
06020001	0.00	0.04	0.05	0.07	0.10	0.13	0.13	0.15	0.14	0.12	0.07	0.04	0.09
Subtotal	*0.00*	*0.04*	*0.05*	*0.07*	*0.10*	*0.13*	*0.13*	*0.15*	*0.14*	*0.12*	*0.07*	*0.04*	*0.09*
Middle Tennessee-Elk													
06030001	0.51	0.73	1.06	2.26	3.54	4.33	4.43	4.96	4.45	3.66	1.30	0.81	2.68
06030002	1.85	1.83	4.55	8.40	16.84	25.82	27.07	23.42	14.96	11.32	3.20	1.73	11.82
06030003	0.00	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	0.29	0.38	0.98	1.60	3.31	5.62	5.91	4.41	1.95	1.39	0.55	0.37	2.24
06030005	0.75	0.78	1.62	3.00	5.52	8.08	8.52	7.08	4.55	3.43	1.41	0.85	3.82
06030006	0.11	0.15	0.37	0.62	1.28	2.07	2.17	1.77	0.98	0.73	0.23	0.13	0.89
Subtotal	*3.51*	*3.87*	*8.58*	*15.89*	*30.49*	*45.92*	*48.09*	*41.64*	*26.89*	*20.54*	*6.69*	*3.89*	*21.45*
Total	**16.98**	**33.81**	**55.73**	**95.41**	**167.24**	**234.67**	**243.96**	**232.26**	**173.10**	**137.80**	**58.76**	**35.02**	**124.28**

Table 36. Monthly irrigation total water withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.10	0.22	0.31	0.49	0.81	1.10	1.13	1.19	0.98	0.81	0.36	0.23	0.65
03130003	0.84	3.86	5.42	8.04	13.44	18.90	19.42	19.62	15.00	12.37	6.31	3.90	10.63
03130004	0.94	1.28	2.84	4.38	8.95	14.91	15.66	12.26	6.22	4.64	1.85	1.19	6.30
03130012	0.55	0.52	1.36	2.17	4.60	7.77	8.19	6.25	3.01	2.19	0.72	0.47	3.17
Subtotal	*2.43*	*5.88*	*9.93*	*15.08*	*27.80*	*42.68*	*44.40*	*39.31*	*25.20*	*20.00*	*9.24*	*5.78*	*20.74*
Chocawhatchee-Escambia													
03140103	0.38	0.73	0.93	1.38	2.08	2.78	2.86	2.89	2.35	2.00	1.11	0.77	1.69
03140104	0.07	0.13	0.18	0.23	0.37	0.53	0.54	0.52	0.40	0.34	0.20	0.14	0.30
03140106	7.02	9.85	11.19	13.72	18.56	23.75	24.54	25.77	23.57	21.36	13.65	10.29	16.98
03140107	3.31	4.54	5.29	6.71	9.29	11.80	12.26	12.58	11.44	10.19	6.47	4.78	8.24
03140201	1.70	2.29	4.66	7.33	14.40	22.76	23.93	19.59	11.41	8.68	3.61	2.22	10.27
03140202	0.95	1.64	2.96	4.42	8.42	13.42	14.03	11.69	6.82	5.33	2.44	1.59	6.17
03140203	0.24	0.39	0.64	0.91	1.68	2.67	2.79	2.32	1.37	1.10	0.56	0.38	1.26
03140301	0.47	0.65	1.05	1.74	3.02	4.42	4.60	4.17	2.90	2.35	1.00	0.67	2.26
03140302	0.37	0.48	0.67	0.97	1.52	2.24	2.34	1.99	1.32	1.12	0.67	0.51	1.19
03140303	0.29	0.37	0.68	1.05	1.98	2.60	2.79	2.56	2.13	1.62	0.78	0.38	1.44
03140304	0.32	0.37	0.55	0.95	1.54	2.14	2.22	2.08	1.56	1.29	0.56	0.40	1.17
03140305	0.12	0.15	0.23	0.38	0.66	0.95	0.99	0.94	0.70	0.57	0.22	0.15	0.51
Subtotal	*15.24*	*21.60*	*29.02*	*39.80*	*63.53*	*90.07*	*93.89*	*87.11*	*65.99*	*55.94*	*31.27*	*22.28*	*51.50*
Alabama													
03150105	0.33	1.37	1.81	2.81	4.43	5.84	5.97	6.45	5.37	4.49	2.28	1.43	3.56
03150106	1.32	3.72	5.51	8.76	14.80	20.20	20.93	20.85	16.42	13.30	6.41	3.84	11.38
03150107	0.73	1.30	2.08	3.50	6.05	8.57	8.90	8.41	6.17	4.97	2.15	1.35	4.53
03150108	0.01	0.03	0.06	0.08	0.16	0.25	0.26	0.22	0.13	0.10	0.05	0.03	0.12
03150109	0.29	0.28	0.50	1.07	1.79	2.52	2.61	2.35	1.64	1.30	0.45	0.32	1.27
03150110	2.41	4.43	6.02	8.70	14.10	19.22	19.91	20.05	16.32	13.65	6.92	4.54	11.40
03150201	3.98	6.16	8.05	11.15	17.37	23.82	24.76	23.95	19.13	16.28	9.15	6.40	14.23
03150202	1.28	1.42	2.51	4.76	8.41	10.72	11.25	11.55	10.13	7.98	2.84	1.50	6.23
03150203	0.48	1.38	2.00	2.92	4.92	7.22	7.47	6.92	4.78	3.93	2.15	1.41	3.81
03150204	2.50	3.49	4.07	5.04	7.08	9.35	9.68	9.85	8.63	7.74	4.83	3.62	6.34
Subtotal	*13.33*	*23.59*	*32.61*	*48.80*	*79.12*	*107.71*	*111.74*	*110.59*	*88.72*	*73.73*	*37.24*	*24.45*	*62.87*
Mobile-Tombigbee													
03160101	0.01	0.01	0.03	0.05	0.09	0.16	0.17	0.13	0.06	0.05	0.02	0.01	0.07

Table 36. Monthly irrigation total water withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.05	0.03	0.08	0.18	0.36	0.52	0.54	0.52	0.39	0.30	0.06	0.03	0.26
03160105	0.06	0.04	0.13	0.26	0.54	0.83	0.87	0.76	0.48	0.36	0.08	0.04	0.37
03160106	0.27	0.23	0.70	1.23	2.58	4.36	4.59	3.41	1.50	1.06	0.32	0.21	1.72
03160107	0.19	0.39	0.59	0.89	1.55	2.27	2.35	2.21	1.58	1.29	0.60	0.39	1.20
03160108	0.08	0.09	0.15	0.21	0.38	0.62	0.65	0.52	0.29	0.24	0.12	0.09	0.29
03160109	0.32	0.35	0.48	1.02	1.46	1.86	1.91	1.79	1.38	1.15	0.55	0.43	1.06
03160110	0.23	0.23	0.45	0.85	1.51	2.24	2.33	2.03	1.32	1.04	0.37	0.25	1.08
03160111	0.75	0.60	0.97	2.37	3.77	4.62	4.76	5.13	4.55	3.71	1.06	0.70	2.76
03160112	0.82	1.60	2.24	3.46	5.60	7.23	7.55	7.59	6.45	5.26	2.76	1.69	4.37
03160113	0.59	1.01	1.52	2.52	4.16	6.03	6.25	5.59	3.77	3.08	1.54	1.07	3.11
03160201	0.19	0.14	0.29	0.69	1.20	1.64	1.70	1.62	1.22	0.97	0.25	0.16	0.84
03160202	0.11	0.09	0.18	0.41	0.68	0.97	1.01	0.86	0.55	0.43	0.15	0.11	0.46
03160203	0.19	0.21	0.26	0.47	0.65	0.80	0.82	0.83	0.73	0.63	0.31	0.24	0.51
03160204	5.78	7.85	9.12	11.38	15.83	20.35	21.12	21.75	19.69	17.61	11.02	8.20	14.18
03160205	7.50	10.12	11.96	15.24	21.59	27.56	28.68	29.48	26.81	23.69	14.51	10.59	19.03
Subtotal	*17.13*	*22.99*	*29.16*	*41.24*	*61.96*	*82.06*	*85.31*	*84.21*	*70.79*	*60.86*	*33.73*	*24.21*	*51.30*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	1.26	1.51	1.83	2.56	3.68	4.74	4.91	5.07	4.53	3.98	2.13	1.59	3.16
03170009	0.82	1.03	1.22	1.53	2.17	2.86	2.97	3.01	2.65	2.37	1.42	1.07	1.93
Subtotal	*2.08*	*2.55*	*3.05*	*4.10*	*5.86*	*7.61*	*7.89*	*8.08*	*7.18*	*6.35*	*3.55*	*2.67*	*5.09*
Middle Tennessee-Hiwassee													
06020001	0.02	0.06	0.07	0.09	0.14	0.17	0.17	0.20	0.18	0.16	0.09	0.06	0.12
Subtotal	*0.02*	*0.06*	*0.07*	*0.09*	*0.14*	*0.17*	*0.17*	*0.20*	*0.18*	*0.16*	*0.09*	*0.06*	*0.12*
Middle Tennessee-Elk													
06030001	0.95	1.30	1.70	3.01	4.51	5.54	5.68	6.29	5.72	4.83	2.07	1.41	3.60
06030002	3.99	4.38	8.51	13.72	26.31	40.83	42.83	36.23	22.59	17.58	6.61	4.27	19.09
06030003	0.00	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	0.60	0.77	1.48	2.24	4.30	7.07	7.42	5.75	2.93	2.24	1.07	0.76	3.07
06030005	1.03	1.10	2.15	3.73	6.86	10.24	10.79	8.89	5.57	4.25	1.84	1.17	4.83
06030006	0.15	0.18	0.48	0.79	1.68	2.79	2.93	2.31	1.18	0.86	0.27	0.16	1.16
Subtotal	*6.71*	*7.73*	*14.31*	*23.49*	*43.65*	*66.47*	*69.65*	*59.47*	*37.98*	*29.77*	*11.86*	*7.77*	*31.73*
Total	**56.94**	**84.39**	**118.15**	**172.61**	**282.06**	**396.78**	**413.05**	**388.97**	**296.04**	**246.80**	**126.97**	**87.22**	**223.35**

Table 37. Crop and golf course irrigated land and withdrawals by county in Alabama in 2015, in MGD.

	CROP						GOLF COURSE	
	Irrigated land in thousand acres		Withdrawals by source, in million gallons per day				Irrigated Land, in thousand acres Applied by sprinker irrigation system	Withdrawals, (in million gallons per day) Surface water
County Name	Total		Groundwater	Surface water	Total			
AUTAUGA	2.16		3.36	0.00	3.36		0.10	0.16
BALDWIN	18.52		47.28	6.79	54.07		2.14	4.33
BARBOUR	4.23		0.58	1.93	2.51		0.30	0.47
BIBB	0.06		0.03	0.00	0.03		0.10	0.16
BLOUNT	0.53		0.20	0.15	0.35		0.41	0.73
BULLOCK	1.61		0.92	0.92	1.84		0.06	0.16
BUTLER	0.02		0.01	0.00	0.02		0.28	0.98
CALHOUN	1.14		0.00	1.39	1.39		0.79	1.76
CHAMBERS	0.12		0.07	0.00	0.07		0.06	0.16
CHEROKEE	1.77		0.00	2.67	2.67		0.10	0.16
CHILTON	0.51		0.33	0.00	0.33		0.06	0.16
CHOCTAW	0.01		0.00	0.00	0.00		0.06	0.16
CLARKE	0.05		0.02	0.00	0.02		0.11	0.26
CLAY	0.02		0.00	0.02	0.02		0.06	0.10
CLEBURNE	0.31		0.00	0.14	0.14		0.00	0.00
COFFEE	4.81		0.68	2.73	3.41		0.26	0.47
COLBERT	3.69		0.79	0.79	1.58		0.49	0.87
CONECUH	0.10		0.05	0.00	0.05		0.06	0.16
COOSA	0.00		0.00	0.00	0.00		0.06	0.10
COVINGTON	1.95		1.27	1.69	2.96		0.27	0.51
CRENSHAW	0.90		0.00	0.48	0.48		0.06	0.10
CULLMAN	0.52		0.28	0.28	0.56		0.21	0.35
DALE	2.58		0.33	1.13	1.45		0.27	0.63
DALLAS	2.91		0.69	2.11	2.80		0.26	0.41
DEKALB	0.67		0.49	1.48	1.98		0.00	0.67
ELMORE	3.25		0.61	1.44	2.05		0.59	1.03
ESCAMBIA	1.75		1.00	0.33	1.33		0.21	0.41
ETOWAH	0.07		0.00	0.03	0.03		0.58	0.97
FAYETTE	0.39		0.00	0.21	0.21		0.06	0.16
FRANKLIN	1.07		0.00	0.58	0.58		0.16	0.26
GENEVA	8.80		2.52	2.88	5.40		0.06	0.10
GREENE	0.38		0.33	0.03	0.36		0.06	0.10
HALE	1.86		0.92	0.00	0.92		0.10	0.16
HENRY	8.52		1.43	4.30	5.74		0.06	0.16

Table 37. Crop and golf course irrigated land and withdrawals by county in Alabama in 2015, in MGD – Continued.

	CROP					GOLF COURSE	
	Irrigated land in thousand acres	Withdrawals by source, in million gallons per day				Irrigated Land, in thousand acres Applied by sprinker irrigation system	Withdrawals, (in million gallons per day) Surface water
County Name	Total	Groundwater	Surface water	Total			
HOUSTON	12.67	5.17	1.12	6.29		0.52	1.30
JACKSON	0.50	0.27	0.19	0.46		0.47	0.82
JEFFERSON	0.22	0.08	0.11	0.19		2.93	5.69
LAMAR	0.70	0.00	0.08	0.08		0.10	0.16
LAUDERDALE	0.52	0.56	0.37	0.93		0.52	0.87
LAWRENCE	4.72	0.05	2.28	2.33		0.16	0.26
LEE	1.26	0.29	1.32	1.61		0.83	1.56
LIMESTONE	15.52	2.48	6.75	9.23		0.36	0.57
LOWNDES	5.10	0.00	5.75	5.75		0.00	0.00
MACON	3.66	2.40	3.55	5.94		0.00	0.00
MADISON	10.41	5.02	1.66	6.68		1.21	2.50
MARENGO	0.40	0.17	0.00	0.17		0.16	0.26
MARION	0.29	0.11	0.00	0.11		0.10	0.16
MARSHALL	0.33	0.79	0.03	0.82		0.80	1.26
MOBILE	4.43	8.67	0.35	9.02		1.09	1.91
MONROE	0.95	0.41	0.00	0.41		0.10	0.16
MONTGOMERY	2.61	4.26	0.62	4.88		0.87	1.40
MORGAN	0.36	0.16	0.10	0.26		0.50	0.78
PERRY	1.17	0.54	0.00	0.54		0.06	0.10
PICKENS	4.13	0.00	1.70	1.70		0.11	0.26
PIKE	3.20	0.41	0.74	1.16		0.16	0.31
RANDOLPH	0.08	0.03	0.01	0.04		0.06	0.10
RUSSELL	4.68	0.00	7.31	7.31		0.10	0.16
SHELBY	0.65	0.34	1.22	1.56		0.62	0.16
ST CLAIR	1.83	0.00	3.98	3.98		0.10	1.20
SUMTER	1.48	0.50	0.00	0.50		0.11	0.26
TALLADEGA	5.63	0.61	3.35	3.96		0.47	0.83
TALLAPOOSA	1.14	0.02	0.42	0.44		0.30	0.47
TUSCALOOSA	2.35	1.33	3.37	4.69		0.58	0.98
WALKER	0.03	0.05	0.00	0.05		0.41	0.67
WASHINGTON	0.05	0.07	0.00	0.07		0.10	0.16
WILCOX	0.23	0.06	0.29	0.35		0.06	0.10
WINSTON	0.04	0.00	0.02	0.02		0.10	0.16
TOTAL	**166.64**	**99.07**	**81.20**	**180.27**		**22.335**	**42.88**

Livestock

Livestock water is water associated with livestock watering, feedlots, dairy operations, and other on-farm needs. The associated activities include cooling of the facilities for animals and products, dairy sanitation and cleaning of facilities, animal waste-disposal systems, and incidental water loss. The primary livestock types in Alabama include poultry, beef cattle and calves, dairy cows and heifers, hogs and pigs, and horses and ponies. The livestock sector excludes on-farm residential use (residential sector) and irrigation water use.

During 2015, livestock withdrawals were 26 MGD (tables 38 and 39). Surface water was the source for 56 percent (15 MGD) of the livestock withdrawals, and groundwater was the source for the remaining 44 percent (12 MGD; figure 31). Livestock withdrawals were less than 1 percent of total withdrawals and were 2 percent of total withdrawals excluding thermoelectric power (table 13).

The geographic distribution of total, groundwater and surface-water withdrawals by county and hydrologic subregion and subbasin is shown in figures 32 and 33. The counties with large water withdrawals for livestock mostly corresponded to areas of Alabama with major production of broilers, cattle and calves, and hogs and pigs (U.S. Department of Agriculture, National Agricultural Statistics Service, 2009). Dekalb, Cullman, and Marshall Counties accounted for approximately 18 percent of the total livestock water withdrawals (table 38).

Nine hydrologic subbasins withdrew 1 MGD or more and collectively accounted for 51 percent (13 MGD) of the total livestock withdrawals. The largest withdrawals by subregion occurred in the Alabama (28 percent, or 7.3 MGD), the Middle Tennessee-Elk (25 percent, or 6.5 MGD), and the Mobile-Tombigbee subregions (24 percent, or 6.2 MGD; table 39).

Estimates of livestock withdrawals by county were determined by the USGS-NWUIP as part of the national effort to estimate water use for the United States for 2015. Water withdrawals were calculated from the 2012 livestock census by USDA-NASS and statewide drinking water requirement coefficients as described in the "Livestock, Aquaculture, and Mining section in the "Data Compilation, Sources of Information, and Methodology for Withdrawals" section of this report. The livestock data was only derived as an annual daily average; therefore, no monthly tables were produced.

Figure 31. Source of water for livestock use in Alabama in 2015, in MGD.

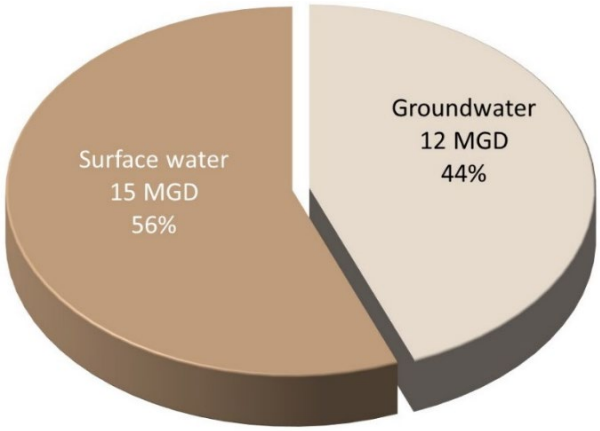


Figure 32. Map of livestock withdrawals by source and county in Alabama in 2015, in MGD.

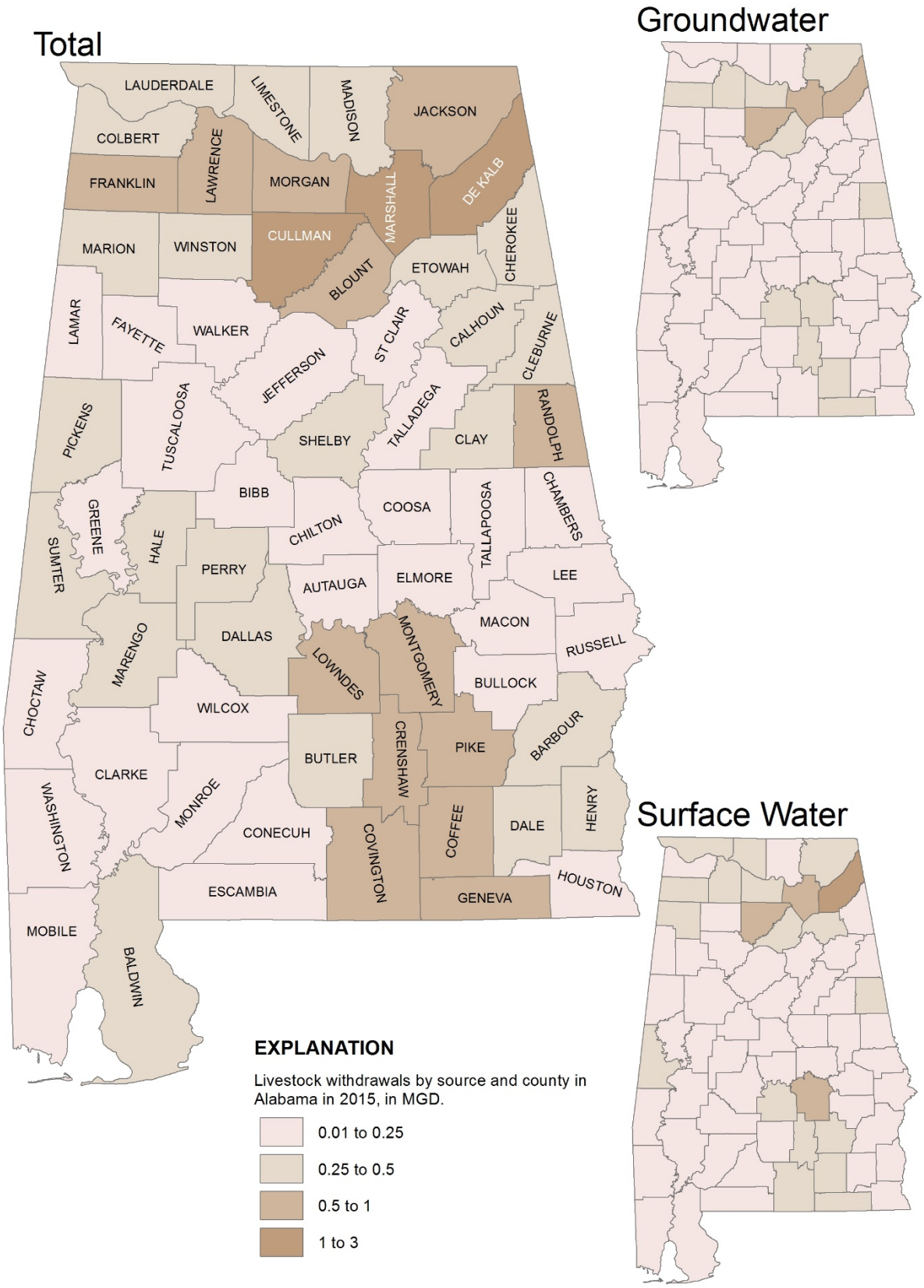


Figure 33. Map of livestock withdrawals by source and subbasin in Alabama in 2015, in MGD.

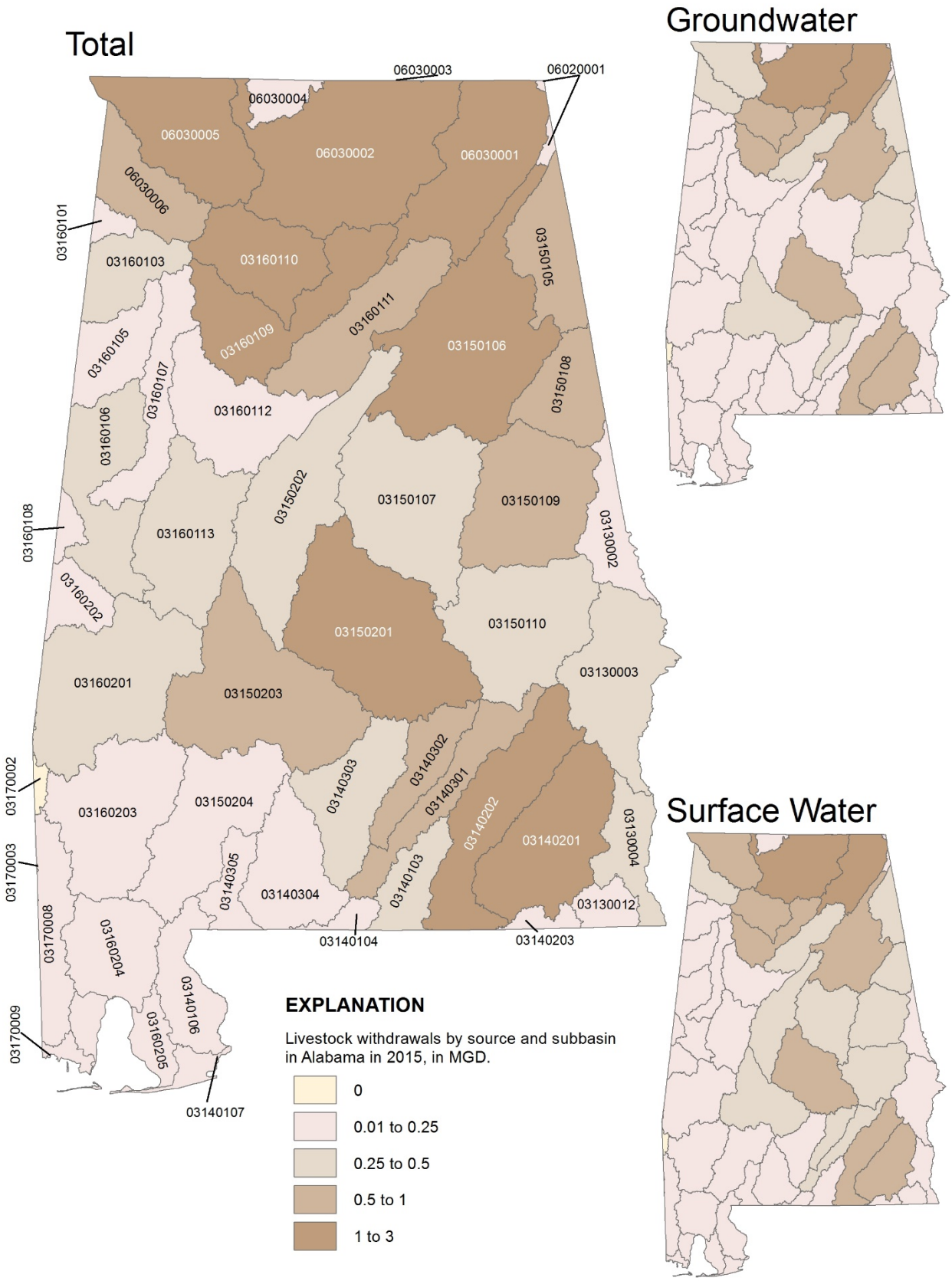


Table 38. Livestock freshwater withdrawals by county in Alabama in 2015, in MGD.

	Withdrawals by source in million gallons per day				Withdrawals by source in million gallons per day		
County Name	Groundwater	Surface water	Total	County Name	Groundwater	Surface water	Total
AUTAUGA	0.08	0.11	0.19	HOUSTON	0.1	0.15	0.25
BALDWIN	0.13	0.16	0.29	JACKSON	0.29	0.37	0.66
BARBOUR	0.16	0.25	0.41	JEFFERSON	0.03	0.05	0.08
BIBB	0.03	0.04	0.07	LAMAR	0.05	0.06	0.11
BLOUNT	0.43	0.47	0.9	LAUDERDALE	0.19	0.26	0.45
BULLOCK	0.06	0.1	0.16	LAWRENCE	0.36	0.48	0.84
BUTLER	0.13	0.19	0.32	LEE	0.03	0.04	0.07
CALHOUN	0.15	0.21	0.36	LIMESTONE	0.21	0.27	0.48
CHAMBERS	0.09	0.13	0.22	LOWNDES	0.27	0.41	0.68
CHEROKEE	0.16	0.24	0.4	MACON	0.04	0.06	0.1
CHILTON	0.07	0.09	0.16	MADISON	0.12	0.16	0.28
CHOCTAW	0.03	0.03	0.06	MARENGO	0.11	0.16	0.27
CLARKE	0.02	0.04	0.06	MARION	0.19	0.26	0.45
CLAY	0.17	0.21	0.38	MARSHALL	0.56	0.56	1.12
CLEBURNE	0.15	0.18	0.33	MOBILE	0.1	0.13	0.23
COFFEE	0.34	0.45	0.79	MONROE	0.06	0.09	0.15
COLBERT	0.16	0.21	0.37	MONTGOMERY	0.37	0.54	0.91
CONECUH	0.05	0.07	0.12	MORGAN	0.33	0.4	0.73
COOSA	0.02	0.02	0.04	PERRY	0.14	0.19	0.33
COVINGTON	0.23	0.32	0.55	PICKENS	0.2	0.2	0.4
CRENSHAW	0.3	0.42	0.72	PIKE	0.23	0.33	0.56
CULLMAN	0.82	0.79	1.61	RANDOLPH	0.28	0.31	0.59
DALE	0.17	0.23	0.4	RUSSELL	0.05	0.07	0.12
DALLAS	0.1	0.16	0.26	SHELBY	0.12	0.17	0.29
DEKALB	0.99	1.11	2.1	ST CLAIR	0.04	0.06	0.1
ELMORE	0.07	0.08	0.15	SUMTER	0.18	0.27	0.45
ESCAMBIA	0.07	0.1	0.17	TALLADEGA	0.1	0.12	0.22
ETOWAH	0.21	0.26	0.47	TALLAPOOSA	0.04	0.05	0.09
FAYETTE	0.08	0.1	0.18	TUSCALOOSA	0.06	0.08	0.14
FRANKLIN	0.28	0.37	0.65	WALKER	0.08	0.11	0.19
GENEVA	0.32	0.42	0.74	WASHINGTON	0.06	0.07	0.13
GREENE	0.05	0.07	0.12	WILCOX	0.06	0.09	0.15
HALE	0.14	0.16	0.3	WINSTON	0.13	0.15	0.28
HENRY	0.1	0.16	0.26	TOTAL	11.54	14.67	26.21

Table 39. Livestock withdrawals by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day		
	Groundwater	Surface water	Total
Apalachicola			
03130002	0.09	0.12	0.21
03130003	0.16	0.24	0.40
03130004	0.10	0.16	0.26
03130012	0.05	0.07	0.12
Subtotal	*0.40*	*0.59*	*0.99*
Chocawhatchee-Escambia			
03140103	0.12	0.17	0.29
03140104	0.02	0.03	0.05
03140106	0.04	0.06	0.10
03140107	0.02	0.02	0.04
03140201	0.51	0.70	1.21
03140202	0.52	0.71	1.23
03140203	0.07	0.10	0.17
03140301	0.25	0.35	0.60
03140302	0.25	0.36	0.61
03140303	0.16	0.23	0.39
03140304	0.07	0.09	0.16
03140305	0.02	0.04	0.06
Subtotal	*2.06*	*2.86*	*4.92*
Alabama			
03150105	0.37	0.47	0.84
03150106	0.70	0.87	1.57
03150107	0.21	0.26	0.47
03150108	0.26	0.30	0.56
03150109	0.28	0.34	0.62
03150110	0.18	0.26	0.43
03150201	0.61	0.89	1.51
03150202	0.18	0.25	0.43
03150203	0.27	0.41	0.68
03150204	0.08	0.11	0.19
Subtotal	*3.13*	*4.17*	*7.30*
Mobile-Tombigbee			
03160101	0.04	0.06	0.10
03160103	0.14	0.18	0.32
03160105	0.08	0.09	0.17
03160106	0.20	0.22	0.42
03160107	0.10	0.13	0.23
03160108	0.05	0.08	0.13
03160109	0.62	0.64	1.27
03160110	0.52	0.54	1.06
03160111	0.45	0.50	0.95
03160112	0.07	0.09	0.16
03160113	0.20	0.24	0.45
03160201	0.16	0.23	0.39
03160202	0.08	0.11	0.19
03160203	0.06	0.08	0.14
03160204	0.06	0.07	0.13
03160205	0.05	0.07	0.12
Subtotal	*2.88*	*3.34*	*6.23*
Pascagoula			
03170002	0.00	0.00	0.01
03170003	0.00	0.00	0.00
03170008	0.04	0.05	0.09
03170009	0.02	0.03	0.04
Subtotal	*0.06*	*0.08*	*0.14*
Middle Tennessee-Hiwassee			
06020001	0.06	0.07	0.13
Subtotal	*0.06*	*0.07*	*0.13*
Middle Tennessee-Elk			
06030001	1.09	1.22	2.30
06030002	1.02	1.24	2.26
06030003	0.00	0.00	0.00
06030004	0.08	0.11	0.19
06030005	0.46	0.62	1.08
06030006	0.29	0.39	0.68
Subtotal	*2.94*	*3.57*	*6.51*
Total	**11.54**	**14.67**	**26.21**

Aquaculture

Aquaculture water refers to water that is associated with the farming of organisms, such as finfish and shellfish, which live in water and offstream water withdrawals associated with fish hatcheries for food, restoration, conservation, or sport. Aquaculture occurs under controlled feeding, sanitation, and harvesting procedures primarily in ponds, flow-through raceways, and, to a lesser extent, cages, net pens, and closed-recirculation tanks. All withdrawals are assumed to be freshwater.

Water withdrawals for aquaculture are listed by county and hydrologic subregion and subbasin in tables 40 and 41. For 2015, water withdrawals for aquaculture were approximately 49 MGD. Groundwater was the source of 55 percent of the total, or 27 MGD, and surface water was the source for the remaining 45 percent, or 22 MGD (figure 34). Aquaculture withdrawals were 1 percent of the total withdrawals and 3 percent of total withdrawals for all sectors excluding thermoelectric power (table 13).

The geographic distribution of total, groundwater, and surface-water withdrawals by county is shown in figure 35. Green, Hale, and Perry Counties, which are located in the west-central part of the State in an area of moderate climate, abundant water, and heavy clay soils that are ideal for constructing earthen ponds (Alabama Education Aquaculture Recreational Fishing, ALEARN, 2008, Kidd and Lambeth, 1995; Boyd and others, 2005), accounted for 60 percent (30 MGD) of the aquaculture withdrawals.

The geographic distribution of total, groundwater and surface-water withdrawals by subbasin is shown in figure 36. Eight of the hydrologic subbasins withdrew 1 MGD or more and collectively accounted for 94 percent (47 MGD) of the total aquaculture withdrawals. The largest withdrawals by subregion occurred in the Mobile-Tombigbee subregion (62 percent, or 31 MGD, table 41).

Estimates of aquaculture water withdrawals by source of supply were determined by the USGS-NWIUP as part of the national effort to estimate water use for the United States for 2015. Water withdrawals were estimated from the methods described in the "Livestock, Aquaculture and Mining" section in the "Data Compilation, Sources of Information, and Methodology for Withdrawals" section of this report. The aquaculture data was only derived as an annual daily average; therefore, no monthly tables were produced.

Figure 34. Source of water for aquaculture use in Alabama in 2015, in MGD.

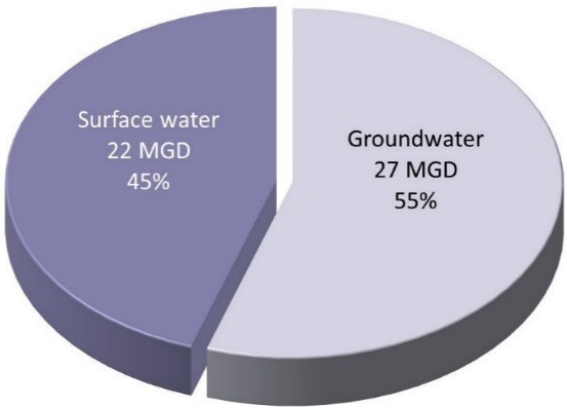


Figure 35. Map of aquaculture withdrawals by source and county in Alabama in 2015, in MGD.

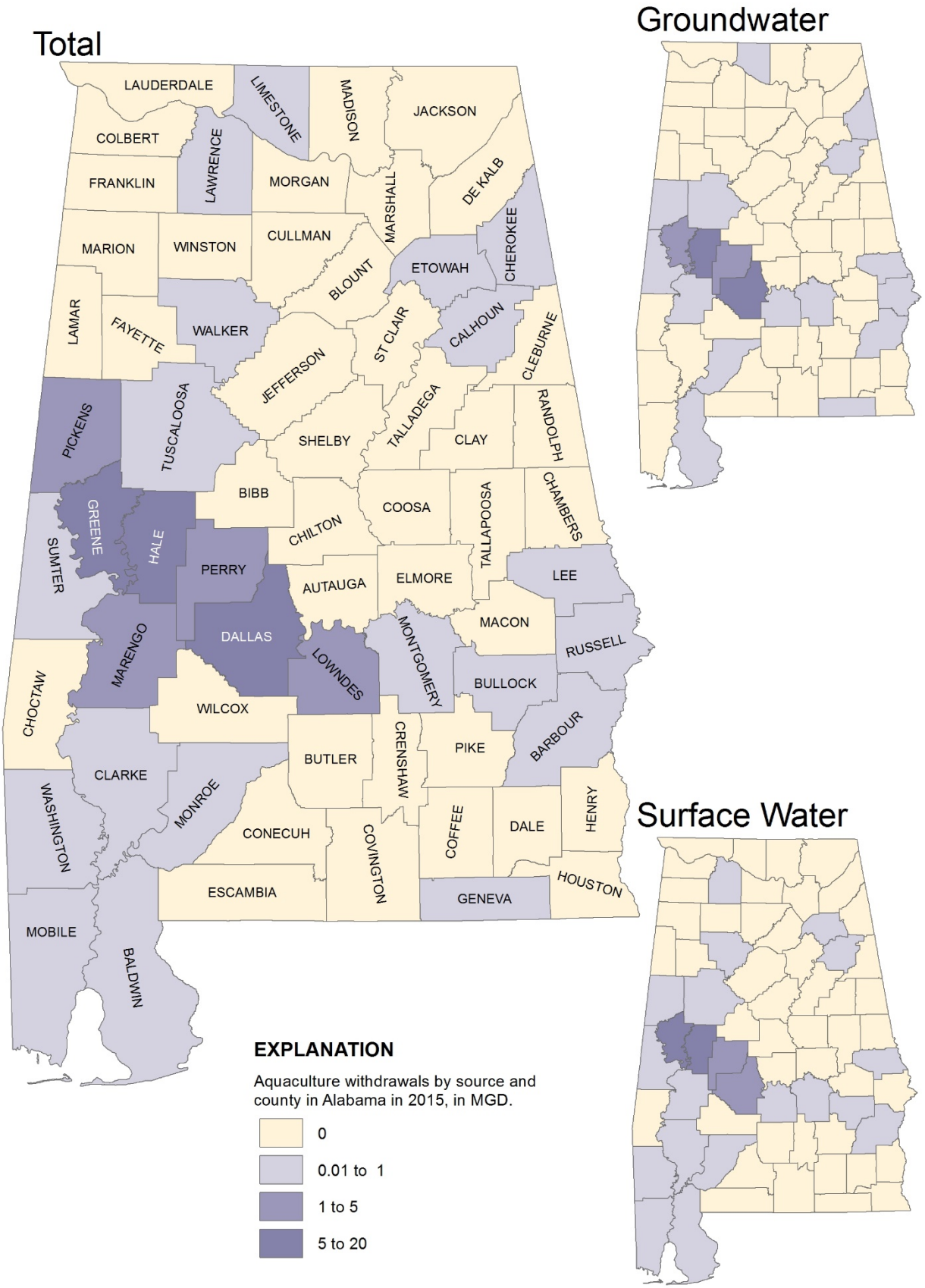


Figure 36. Map of aquaculture withdrawals by source and subbasin in Alabama in 2015, in MGD.

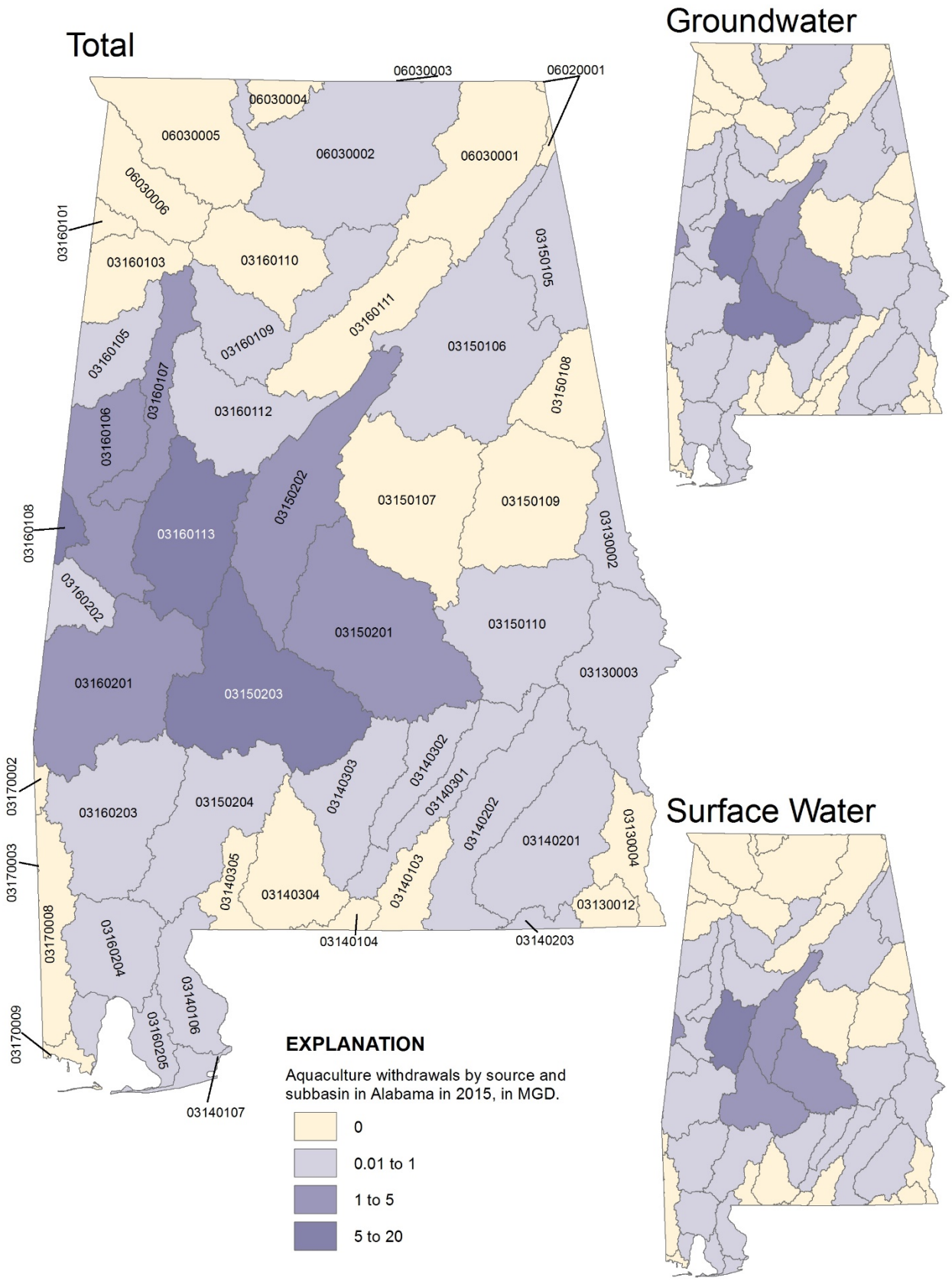


Table 40. Aquaculture withdrawals by source and county in Alabama in 2015, in MGD.

	Withdrawals by source in million gallons per day				Withdrawals by source in million gallons per day		
County Name	Groundwater	Surface water	Total	County Name	Groundwater	Surface water	Total
AUTAUGA	0.00	0.00	0.00	HOUSTON	0.00	0.00	0.00
BALDWIN	0.05	0.05	0.10	JACKSON	0.00	0.00	0.00
BARBOUR	0.18	0.18	0.36	JEFFERSON	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	LAMAR	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	LAUDERDALE	0.00	0.00	0.00
BULLOCK	0.00	0.05	0.05	LAWRENCE	0.00	0.01	0.01
BUTLER	0.00	0.00	0.00	LEE	0.03	0.04	0.07
CALHOUN	0.12	0.12	0.24	LIMESTONE	0.01	0.00	0.01
CHAMBERS	0.00	0.00	0.00	LOWNDES	0.65	0.65	1.30
CHEROKEE	0.51	0.00	0.51	MACON	0.00	0.00	0.00
CHILTON	0.00	0.00	0.00	MADISON	0.00	0.00	0.00
CHOCTAW	0.00	0.00	0.00	MARENGO	0.69	0.92	1.61
CLARKE	0.00	0.10	0.10	MARION	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	MARSHALL	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	MOBILE	0.00	0.01	0.01
COFFEE	0.00	0.00	0.00	MONROE	0.07	0.07	0.14
COLBERT	0.00	0.00	0.00	MONTGOMERY	0.20	0.20	0.40
CONECUH	0.00	0.00	0.00	MORGAN	0.00	0.00	0.00
COOSA	0.00	0.00	0.00	PERRY	2.34	1.76	4.10
COVINGTON	0.00	0.00	0.00	PICKENS	0.61	0.77	1.38
CRENSHAW	0.00	0.00	0.00	PIKE	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	RANDOLPH	0.00	0.00	0.00
DALE	0.00	0.00	0.00	RUSSELL	0.21	0.00	0.21
DALLAS	7.79	3.90	11.69	SHELBY	0.00	0.00	0.00
DEKALB	0.00	0.00	0.00	ST CLAIR	0.00	0.00	0.00
ELMORE	0.00	0.00	0.00	SUMTER	0.40	0.50	0.90
ESCAMBIA	0.00	0.00	0.00	TALLADEGA	0.00	0.00	0.00
ETOWAH	0.00	0.01	0.01	TALLAPOOSA	0.00	0.00	0.00
FAYETTE	0.00	0.00	0.00	TUSCALOOSA	0.24	0.33	0.57
FRANKLIN	0.00	0.00	0.00	WALKER	0.00	0.05	0.05
GENEVA	0.13	0.00	0.13	WASHINGTON	0.00	0.02	0.02
GREENE	4.21	5.09	9.30	WILCOX	0.00	0.00	0.00
HALE	8.81	7.34	16.15	WINSTON	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	**TOTAL**	**27.25**	**22.17**	**49.42**

Table 41. Aquaculture withdrawals by source and hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day		
	Groundwater	Surface water	Total
Apalachicola			
03130002	0.01	0.01	0.02
03130003	0.30	0.11	0.42
03130004	0.00	0.00	0.00
03130012	0.00	0.00	0.00
Subtotal	*0.32*	*0.12*	*0.44*
Chocawhatchee-Escambia			
03140103	0.00	0.00	0.00
03140104	0.00	0.00	0.00
03140106	0.02	0.02	0.03
03140107	0.01	0.01	0.01
03140201	0.11	0.05	0.16
03140202	0.08	0.05	0.13
03140203	0.03	0.00	0.03
03140301	0.00	0.01	0.01
03140302	0.02	0.02	0.04
03140303	0.02	0.02	0.04
03140304	0.00	0.00	0.00
03140305	0.00	0.00	0.01
Subtotal	*0.29*	*0.18*	*0.47*
Alabama			
03150105	0.48	0.01	0.50
03150106	0.15	0.12	0.26
03150107	0.00	0.00	0.00
03150108	0.00	0.00	0.00
03150109	0.00	0.00	0.00
03150110	0.05	0.07	0.13
03150201	2.97	1.79	4.76
03150202	2.14	1.41	3.55
03150203	5.50	3.09	8.59
03150204	0.06	0.09	0.15
Subtotal	*11.37*	*6.57*	*17.94*
Mobile-Tombigbee			
03160101	0.00	0.00	0.00
03160103	0.00	0.00	0.00
03160105	0.04	0.04	0.08
03160106	0.57	0.71	1.28
03160107	0.76	0.93	1.69
03160108	2.35	2.84	5.19
03160109	0.00	0.04	0.05
03160110	0.00	0.00	0.00
03160111	0.00	0.00	0.00
03160112	0.13	0.18	0.31
03160113	10.51	9.26	19.77
03160201	0.73	0.94	1.67
03160202	0.17	0.21	0.38
03160203	0.00	0.08	0.08
03160204	0.01	0.01	0.02
03160205	0.01	0.02	0.03
Subtotal	*15.27*	*15.28*	*30.54*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.00	0.01	0.01
03170009	0.00	0.00	0.00
Subtotal	*0.00*	*0.01*	*0.01*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	0.00	0.00	0.00
06030002	0.01	0.00	0.01
06030003	0.00	0.00	0.00
06030004	0.00	0.00	0.00
06030005	0.00	0.00	0.00
06030006	0.00	0.00	0.00
Subtotal	*0.01*	*0.01*	*0.02*
Total	**27.25**	**22.17**	**49.42**

Industrial

Industrial water is water used for fabrication, processing, washing, and cooling and includes such industries as chemical and allied products, food, paper and allied products, petroleum refining, and steel. Total industrial water use is the sum of public-supplied industrial and commercial deliveries and self-supplied industrial and commercial withdrawals. For this study, total industrial use and public-supplied industrial/commercial deliveries were estimated at the state level only.

Self-supplied industrial withdrawals are listed by county and by hydrologic subregion and subbasin in tables 42 through 49 with tables 43 through 45 and 47 through 49 showing monthly withdrawals. For 2015, self-supplied industrial withdrawals were 495 MGD, which is 6 percent of total withdrawals and 31 percent of total withdrawals excluding thermoelectric power (table 13). Surface water was the source for 93 percent (462 MGD) of the withdrawals, and groundwater was the source for the remaining 7 percent (33 MGD, figure 37). Statewide, combined public-supplied industrial and commercial deliveries were 288 MGD. Total industrial water use was 783 MGD.

The geographic distribution of total, groundwater, and surface-water withdrawals for self-supplied industrial use by county and by hydrologic subbasin is shown, respectively in figures 38 and 39. Withdrawals for self-supplied industrial use occurred in 37 counties. 89 percent of the total self-supplied industrial withdrawals and 92 percent of the surface-water self-supplied industrial withdrawals occurred in the 13 counties that withdrew 10 MGD or more (figure 37). The largest withdrawals occurred in Morgan, Monroe, and Choctaw Counties with withdrawals that were more than 40 MGD each. Withdrawals in these counties accounted for approximately 37 percent (184 MGD) of the total self-supplied industrial withdrawals.

The Alabama subregion accounted for 37 percent (184 MGD) of the total self-supplied industrial withdrawals with 94 percent (174 MGD) being from surface water (table 46). Within the Alabama subregion the largest total withdrawals occurred in the Upper Alabama (03150201; 72 MGD), the Lower Alabama (03150204; 49 MGD), and the Middle Coosa (03150106; 43 MGD) subbasins. The largest groundwater withdrawals were in the Mobile-Tombigbee subregion (15 MGD) and accounted for 47 percent of the statewide self-supplied industrial groundwater withdrawals.

Figure 37. Source of water for self-supplied industrial use in Alabama in 2015, in MGD.

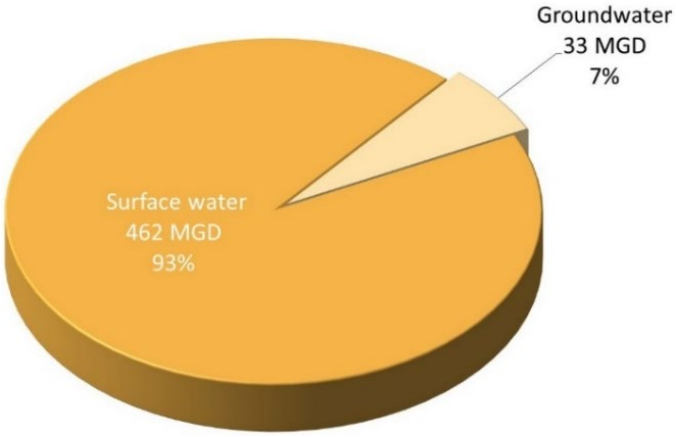


Figure 38. Map of self-supplied industrial withdrawals by source and county in Alabama in 2015, in MGD.

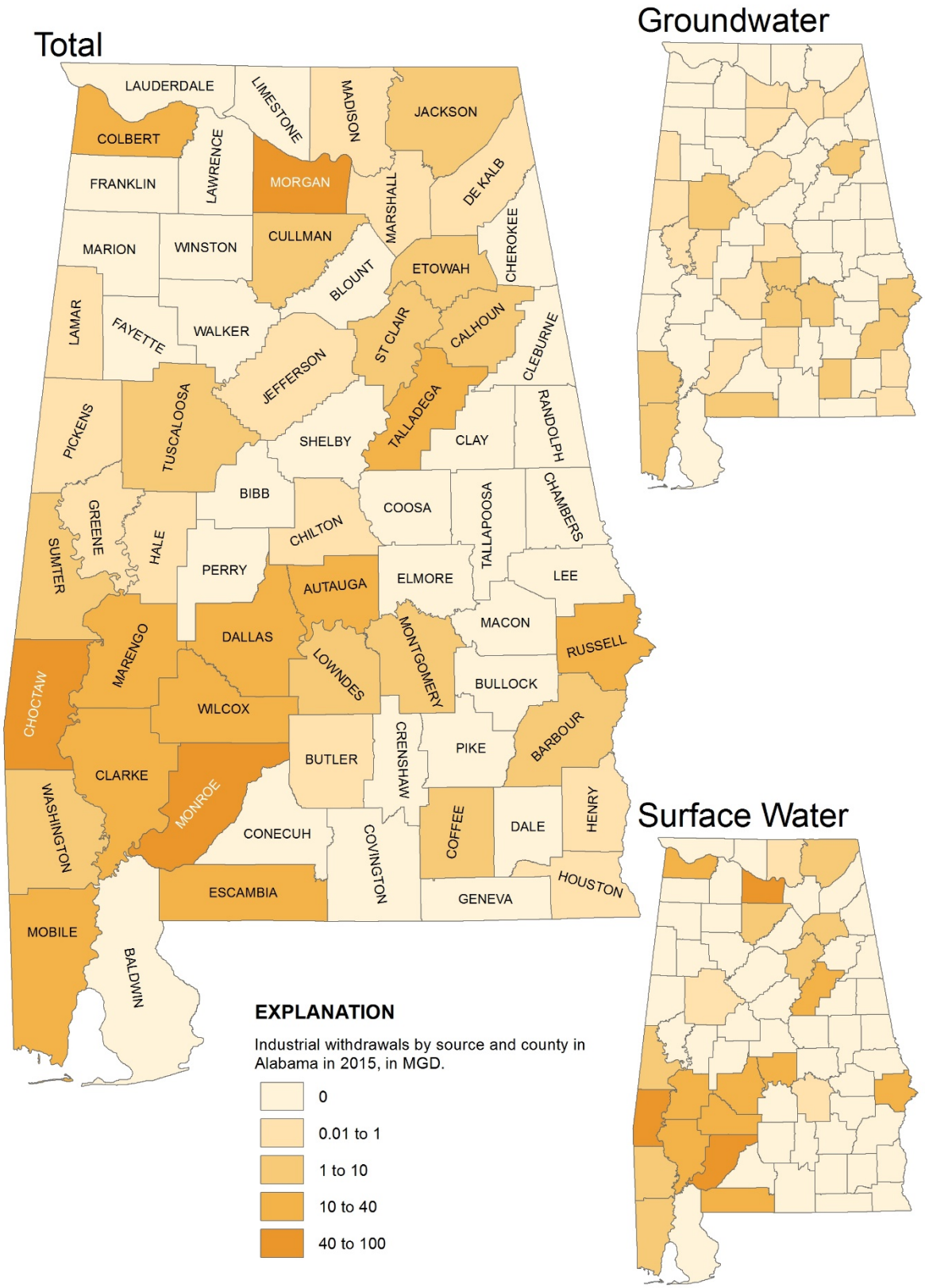
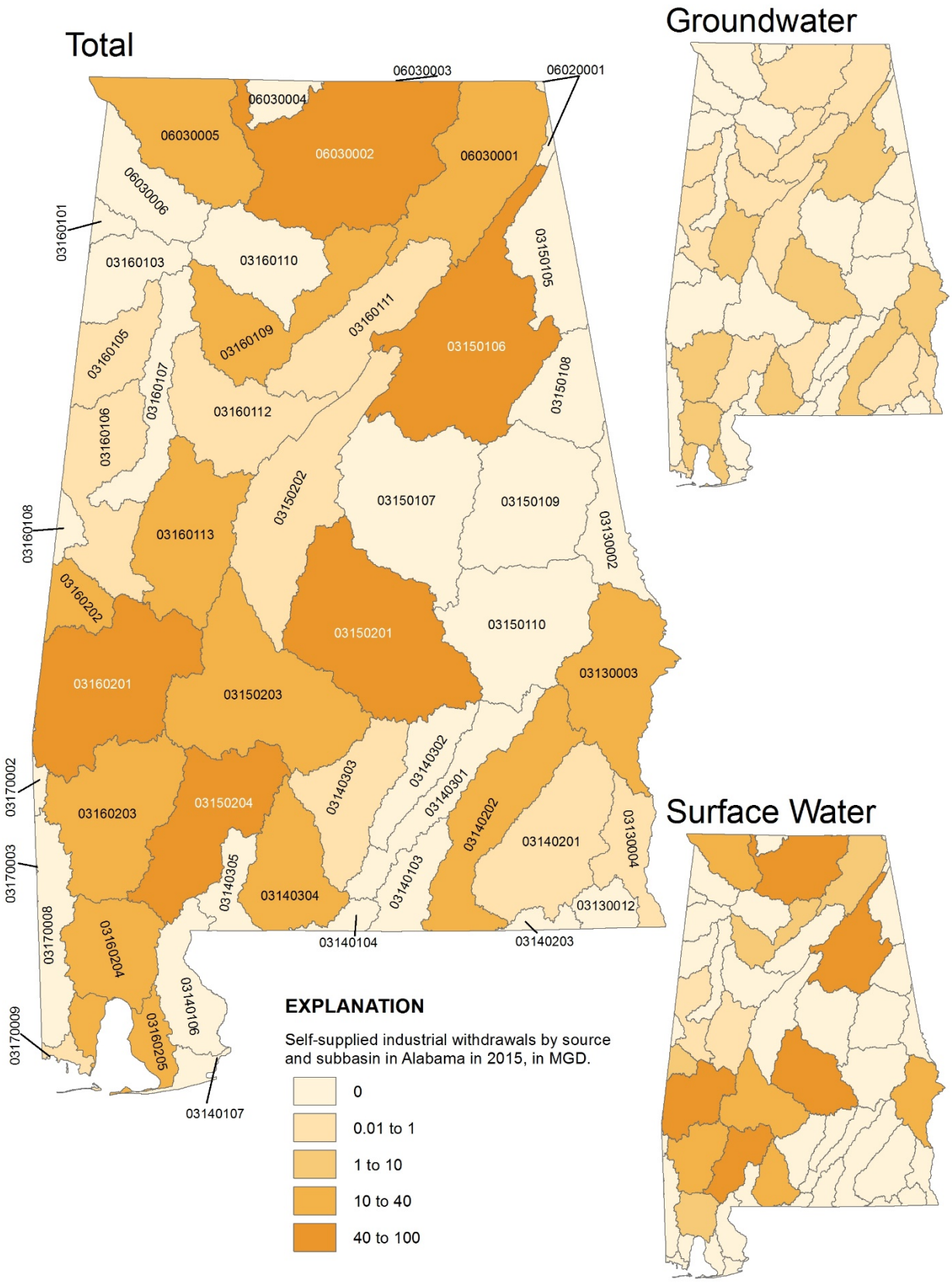


Figure 39. Map of self-supplied industrial withdrawals by subbasin in Alabama in 2015, in MGD.



Pulp, paper and paperboard mills (NAICS 3221, 295 MGD), basic chemical manufacturing (NAICS 3251, 97 MGD), and converted paper product manufacturing (NAICS 3222, 33 MGD) accounted for 86 percent of total self-supplied industrial withdrawals (figure 39). Pulp, paper and paperboard mills accounted for the largest self-supplied industrial surface water withdrawals (291 MGD). Basic chemical manufacturing accounted for the largest groundwater withdrawals (7 MGD). The largest withdrawals for pulp, paper and paperboard mills occurred in Monroe County. Detailed water use by NAICS for counties and hydrologic subbasins can be found in Appendices B and C, respectively.

OWR AWURP was the source for site-specific industrial water withdrawal and ancillary data. The Alabama Department for Commerce provided nearly all of the NAICS codes for specific industries. Public-supply deliveries to commercial and industrial users were determined at the state level from the Alabama Public Water System Survey for 2015 (Appendix F). Details are in the "Thermoelectric Power and Industrial" section in the "Data Compilation, Sources, of Information, and Methodology for Withdrawals" section in this report.

Figure 40. Distribution of total industrial withdrawals by North American Industrial Classification System grouping in Alabama in 2015, in MGD.

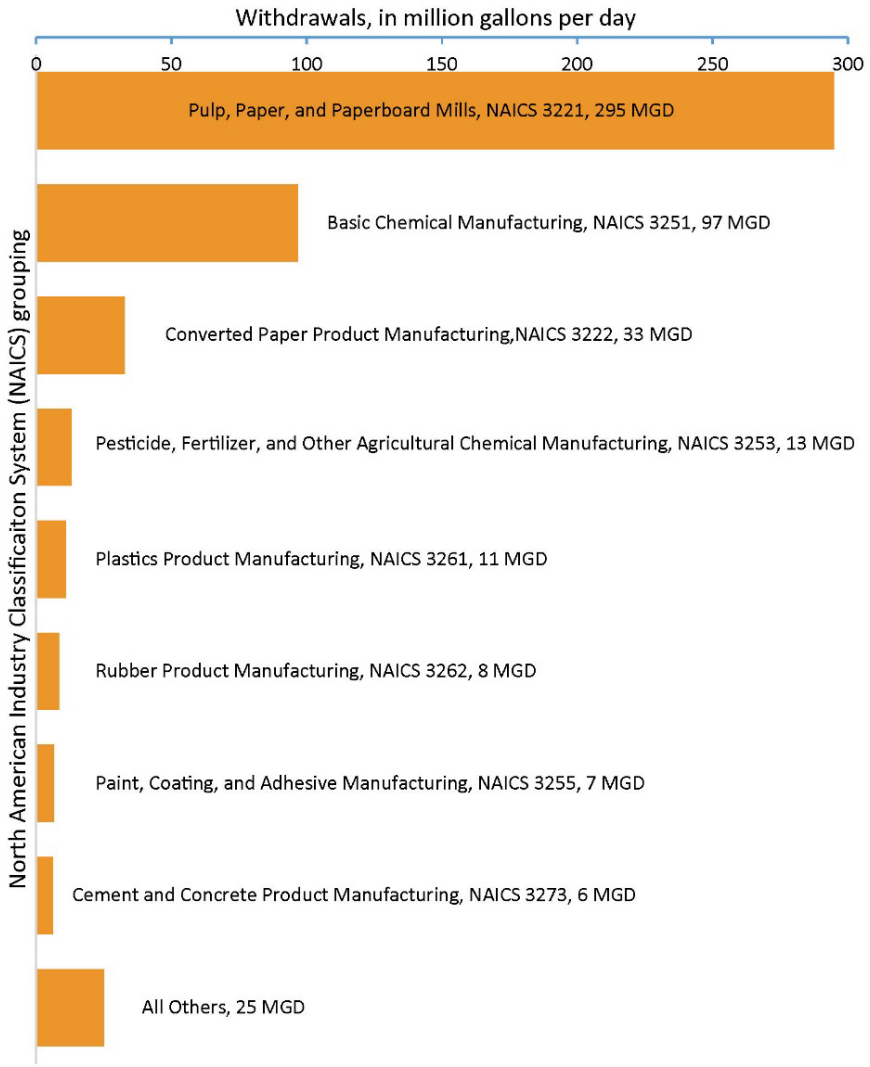


Table 42. Self-supplied industrial withdrawals by county in Alabama in 2015, in MGD.

	WITHDRAWALS by source in million gallons per day				WITHDRAWALS by source in million gallons per day		
County Name	Groundwater	Surface water	Total	County Name	Groundwater	Surface water	Total
AUTAUGA	1.83	32.97	34.80	HOUSTON	0.30	0.00	0.30
BALDWIN	0.00	0.00	0.00	JACKSON	0.00	9.10	9.10
BARBOUR	1.50	0.00	1.50	JEFFERSON	0.87	0.00	0.87
BIBB	0.00	0.00	0.00	LAMAR	0.10	0.00	0.10
BLOUNT	0.00	0.00	0.00	LAUDERDALE	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	LAWRENCE	0.00	0.00	0.00
BUTLER	0.19	0.00	0.19	LEE	0.00	0.00	0.00
CALHOUN	1.15	0.00	1.15	LIMESTONE	0.00	0.00	0.00
CHAMBERS	0.00	0.00	0.00	LOWNDES	4.24	0.00	4.24
CHEROKEE	0.00	0.00	0.00	MACON	0.00	0.00	0.00
CHILTON	0.39	0.00	0.39	MADISON	0.00	0.55	0.55
CHOCTAW	0.00	46.61	46.61	MARENGO	0.00	18.44	18.44
CLARKE	0.00	22.14	22.14	MARION	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	MARSHALL	0.08	0.00	0.08
CLEBURNE	0.00	0.00	0.00	MOBILE	6.49	3.61	10.10
COFFEE	1.74	0.00	1.74	MONROE	0.12	49.31	49.44
COLBERT	0.00	29.70	29.70	MONTGOMERY	1.78	0.03	1.81
CONECUH	0.00	0.00	0.00	MORGAN	0.01	88.33	88.34
COOSA	0.00	0.00	0.00	PERRY	0.00	0.00	0.00
COVINGTON	0.00	0.00	0.00	PICKENS	0.01	0.00	0.01
CRENSHAW	0.00	0.00	0.00	PIKE	0.00	0.00	0.00
CULLMAN	0.73	2.43	3.17	RANDOLPH	0.00	0.00	0.00
DALE	0.00	0.00	0.00	RUSSELL	1.44	26.00	27.44
DALLAS	0.24	30.66	30.90	SHELBY	0.00	0.00	0.00
DEKALB	0.57	0.00	0.57	ST CLAIR	0.00	6.10	6.10
ELMORE	0.00	0.00	0.00	SUMTER	0.00	4.57	4.57
ESCAMBIA	1.46	32.54	34.01	TALLADEGA	0.00	26.59	26.59
ETOWAH	0.00	8.30	8.30	TALLAPOOSA	0.00	0.00	0.00
FAYETTE	0.00	0.00	0.00	TUSCALOOSA	1.53	0.67	2.20
FRANKLIN	0.00	0.00	0.00	WALKER	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	WASHINGTON	5.83	3.42	9.25
GREENE	0.02	0.00	0.02	WILCOX	0.00	19.67	19.67
HALE	0.02	0.00	0.02	WINSTON	0.00	0.00	0.00
HENRY	0.26	0.00	0.26	TOTAL	32.91	461.76	494.67

Table 43. Monthly self-supplied industrial groundwater withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	2.03	1.98	1.93	1.91	1.89	1.93	1.89	1.64	1.54	1.62	1.63	1.93	1.83
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	1.53	1.43	1.56	1.51	1.52	1.55	1.53	1.43	1.49	1.59	1.47	1.43	1.50
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.19	0.20	0.17	0.15	0.18	0.19	0.22	0.22	0.24	0.20	0.20	0.18	0.19
CALHOUN	1.03	1.07	1.16	1.03	1.14	1.23	1.19	1.29	1.18	1.13	1.20	1.15	1.15
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.27	0.28	0.29	0.29	0.23	0.30	0.55	0.53	0.58	0.56	0.56	0.28	0.39
CHOCTAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLARKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	1.60	1.67	1.89	1.73	1.66	1.72	1.67	1.67	1.83	1.84	1.76	1.80	1.74
COLBERT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
COVINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.42	0.31	0.42	1.39	1.44	1.02	0.48	0.00	0.13	1.23	1.18	0.78	0.73
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	0.25	0.17	0.26	0.27	0.26	0.24	0.23	0.22	0.25	0.27	0.26	0.16	0.24
DEKALB	0.65	0.54	0.55	0.55	0.57	0.61	0.54	0.48	0.55	0.61	0.63	0.59	0.57
ELMORE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESCAMBIA	1.48	1.54	1.56	1.56	1.59	1.56	1.53	1.37	1.35	1.36	1.34	1.34	1.46
ETOWAH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	0.01	0.02	0.02	0.03	0.04	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02
HALE	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.02
HENRY	0.04	0.26	0.29	0.30	0.27	0.30	0.29	0.27	0.28	0.29	0.28	0.29	0.26

Table 43. Monthly self-supplied industrial groundwater withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
JACKSON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JEFFERSON	0.66	0.74	0.68	0.72	0.90	0.57	0.76	1.14	0.78	0.96	0.92	1.61	0.87
LAMAR	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.62	0.10
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LOWNDES	4.10	3.92	4.03	4.21	4.29	4.45	4.42	4.40	4.39	4.17	4.34	4.10	4.24
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARENGO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.08	0.09	0.08	0.09	0.09	0.08	0.09	0.02	0.07	0.09	0.09	0.09	0.08
MOBILE	6.39	6.32	6.70	6.49	6.22	6.68	6.37	6.67	6.41	6.33	6.64	6.67	6.49
MONROE	0.14	0.15	0.14	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
MONTGOMERY	1.86	1.50	1.54	1.73	1.88	1.76	1.95	2.25	2.09	1.90	1.28	1.59	1.78
MORGAN	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
SHELBY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST CLAIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TALLADEGA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
TUSCALOOSA	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53
WALKER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WASHINGTON	6.83	4.79	5.74	5.61	5.37	5.14	4.87	5.60	6.86	6.56	6.04	6.46	5.83
WILCOX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WINSTON	0.00	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	**33.04**	**30.40**	**32.37**	**32.95**	**32.94**	**32.81**	**32.04**	**32.66**	**33.48**	**34.12**	**33.43**	**34.49**	**32.91**

Table 44. Monthly self-supplied industrial surface water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	33.73	31.59	32.66	30.97	28.31	32.71	35.75	35.04	34.42	34.53	32.33	33.42	32.97
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALHOUN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHOCTAW	43.90	45.40	44.00	43.50	46.80	38.40	50.90	53.60	51.90	48.20	45.60	46.80	46.61
CLARKE	24.26	22.39	22.59	22.69	22.69	23.09	22.17	22.67	22.04	17.80	20.76	22.59	22.14
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLBERT	29.71	28.88	30.60	31.20	25.68	28.31	27.38	30.89	30.21	31.34	31.38	30.79	29.70
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
COVINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	2.77	2.40	1.89	2.06	2.17	2.41	2.61	2.69	2.87	2.69	2.52	2.08	2.43
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	31.40	29.90	29.60	30.10	29.30	30.40	34.90	31.50	31.10	30.40	27.80	31.40	30.66
DEKALB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELMORE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESCAMBIA	29.00	29.90	30.70	24.40	34.00	34.60	34.70	34.80	35.20	33.70	34.20	35.00	32.54
ETOWAH	6.66	6.52	5.92	6.92	9.25	12.05	8.33	9.57	9.46	8.45	7.20	9.12	8.30
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 44. Monthly self-supplied industrial surface water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JACKSON	9.59	9.65	9.30	8.83	8.73	8.16	9.29	9.21	8.95	8.88	9.10	9.48	9.10
JEFFERSON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LOWNDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.60	0.70	0.63	0.61	0.48	0.43	0.68	0.61	0.53	0.51	0.50	0.40	0.55
MARENGO	18.70	18.50	12.90	19.80	19.10	18.70	18.00	19.00	19.00	19.20	19.60	18.90	18.44
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOBILE	3.22	3.05	2.99	3.09	3.52	3.73	4.11	4.60	4.50	3.93	2.99	3.55	3.61
MONROE	49.41	47.31	48.02	39.00	47.31	50.91	55.11	53.72	49.21	51.31	50.70	49.31	49.31
MONTGOMERY	0.00	0.00	0.00	0.00	0.01	0.04	0.06	0.11	0.08	0.01	0.00	0.00	0.03
MORGAN	72.17	76.03	83.07	87.19	54.31	76.15	114.96	115.50	110.88	98.35	84.49	85.84	88.33
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	24.64	18.93	24.65	24.65	25.68	27.87	28.05	27.94	28.27	28.37	26.20	26.18	26.00
SHELBY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST CLAIR	6.68	11.78	6.08	6.18	5.68	5.18	4.78	4.98	4.78	4.98	5.48	7.08	6.10
SUMTER	4.54	4.54	4.54	4.54	4.61	4.61	4.61	4.61	4.61	4.61	4.54	4.54	4.57
TALLADEGA	25.43	22.42	23.96	20.18	29.98	28.06	28.72	30.03	29.06	24.80	26.83	29.10	26.59
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	0.00
TUSCALOOSA	0.84	0.82	0.70	0.75	0.91	0.90	1.18	1.17	0.22	0.21	0.17	0.20	0.67
WALKER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WASHINGTON	3.55	2.67	3.10	3.16	3.23	3.32	3.80	3.81	3.79	3.65	3.44	3.44	3.42
WILCOX	20.04	20.24	17.85	19.81	20.03	19.16	18.64	19.43	18.90	20.57	21.06	20.41	19.67
WINSTON	0.00	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	**440.82**	**433.61**	**435.75**	**429.63**	**421.79**	**449.20**	**508.71**	**515.47**	**499.97**	**476.49**	**456.90**	**469.62**	**461.76**

Table 45. Monthly total self-supplied industrial water withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	35.76	33.57	34.59	32.88	30.20	34.64	37.64	36.68	35.96	36.15	33.96	35.35	34.80
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	1.53	1.43	1.56	1.51	1.52	1.55	1.53	1.43	1.49	1.59	1.47	1.43	1.50
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.19	0.20	0.17	0.15	0.18	0.19	0.22	0.22	0.24	0.20	0.20	0.18	0.19
CALHOUN	1.03	1.07	1.16	1.03	1.14	1.23	1.19	1.29	1.18	1.13	1.20	1.15	1.15
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.27	0.28	0.29	0.29	0.23	0.30	0.55	0.53	0.58	0.56	0.56	0.28	0.39
CHOCTAW	43.90	45.40	44.00	43.50	46.80	38.40	50.90	53.60	51.90	48.20	45.60	46.80	46.61
CLARKE	24.26	22.39	22.59	22.69	22.69	23.09	22.17	22.67	22.04	17.80	20.76	22.59	22.14
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	1.60	1.67	1.89	1.73	1.66	1.72	1.67	1.67	1.83	1.84	1.76	1.80	1.74
COLBERT	29.71	28.88	30.60	31.20	25.68	28.31	27.38	30.89	30.21	31.34	31.38	30.79	29.70
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
COVINGTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	3.19	2.72	2.31	3.45	3.60	3.43	3.09	2.69	3.01	3.92	3.70	2.87	3.17
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	31.65	30.07	29.86	30.37	29.56	30.64	35.13	31.72	31.35	30.67	28.06	31.56	30.90
DEKALB	0.65	0.54	0.55	0.55	0.57	0.61	0.54	0.48	0.55	0.61	0.63	0.59	0.57
ELMORE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESCAMBIA	30.48	31.44	32.26	25.96	35.59	36.16	36.23	36.17	36.55	35.06	35.54	36.34	34.01
ETOWAH	6.66	6.52	5.92	6.92	9.25	12.05	8.33	9.57	9.46	8.45	7.20	9.12	8.30
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	0.01	0.02	0.02	0.03	0.04	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02
HALE	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.02
HENRY	0.04	0.26	0.29	0.30	0.27	0.30	0.29	0.27	0.28	0.29	0.28	0.29	0.26

Table 45. Monthly total self-supplied industrial water withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
JACKSON	9.59	9.65	9.30	8.83	8.73	8.16	9.29	9.21	8.95	8.88	9.10	9.48	9.10
JEFFERSON	0.66	0.74	0.68	0.72	0.90	0.57	0.76	1.14	0.78	0.96	0.92	1.61	0.87
LAMAR	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.62	0.10
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LOWNDES	4.10	3.92	4.03	4.21	4.29	4.45	4.42	4.40	4.39	4.17	4.34	4.10	4.24
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.60	0.70	0.63	0.61	0.48	0.43	0.68	0.61	0.53	0.51	0.50	0.40	0.55
MARENGO	18.70	18.50	12.90	19.80	19.10	18.70	18.00	19.00	19.00	19.20	19.60	18.90	18.44
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.08	0.09	0.08	0.09	0.09	0.08	0.09	0.02	0.07	0.09	0.09	0.09	0.08
MOBILE	9.61	9.37	9.69	9.58	9.74	10.41	10.48	11.27	10.91	10.26	9.63	10.22	10.10
MONROE	49.55	47.46	48.16	39.10	47.43	51.03	55.23	53.84	49.33	51.43	50.82	49.43	49.44
MONTGOMERY	1.86	1.50	1.54	1.73	1.90	1.80	2.01	2.35	2.17	1.92	1.28	1.59	1.81
MORGAN	72.18	76.04	83.08	87.20	54.32	76.16	114.97	115.51	110.89	98.35	84.49	85.84	88.34
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	26.08	20.37	26.09	26.09	27.12	29.31	29.49	29.38	29.71	29.81	27.64	27.62	27.44
SHELBY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST CLAIR	6.68	11.78	6.08	6.18	5.68	5.18	4.78	4.98	4.78	4.98	5.48	7.08	6.10
SUMTER	4.54	4.54	4.54	4.54	4.61	4.61	4.61	4.61	4.61	4.61	4.54	4.54	4.57
TALLADEGA	25.43	22.42	23.96	20.18	29.98	28.06	28.72	30.03	29.06	24.80	26.83	29.10	26.59
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	0.00
TUSCALOOSA	2.37	2.34	2.23	2.28	2.44	2.42	2.70	2.70	1.74	1.74	1.70	1.73	2.20
WALKER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WASHINGTON	10.38	7.46	8.84	8.77	8.60	8.46	8.67	9.41	10.64	10.22	9.48	9.90	9.25
WILCOX	20.04	20.24	17.85	19.81	20.03	19.16	18.64	19.43	18.90	20.57	21.06	20.41	19.67
WINSTON	0.00	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	**473.85**	**464.01**	**468.12**	**462.58**	**454.74**	**482.01**	**540.75**	**548.13**	**533.46**	**510.62**	**490.34**	**504.11**	**494.67**

Table 46. Self-supplied industrial withdrawals by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day		
	Groundwater	Surface water	Total
Apalachicola			
03130002	0.00	0.00	0.00
03130003	2.94	26.00	28.95
03130004	0.56	0.00	0.56
03130012	0.00	0.00	0.00
Subtotal	*3.51*	*26.00*	*29.51*
Chocawhatchee-Escambia			
03140103	0.00	0.00	0.00
03140104	0.00	0.00	0.00
03140106	0.00	0.00	0.00
03140107	0.00	0.00	0.00
03140201	0.60	0.00	0.60
03140202	1.14	0.00	1.14
03140203	0.00	0.00	0.00
03140301	0.00	0.00	0.00
03140302	0.00	0.00	0.00
03140303	0.19	0.00	0.19
03140304	1.46	32.54	34.01
03140305	0.00	0.00	0.00
Subtotal	*3.40*	*32.54*	*35.94*
Alabama			
03150105	0.00	0.00	0.00
03150106	1.72	40.98	42.71
03150107	0.00	0.00	0.00
03150108	0.00	0.00	0.00
03150109	0.00	0.00	0.00
03150110	0.00	0.00	0.00
03150201	8.47	63.66	72.14
03150202	0.16	0.00	0.16
03150203	0.00	19.67	19.67
03150204	0.12	49.31	49.44
Subtotal	*10.48*	*173.63*	*184.11*
Mobile-Tombigbee			
03160101	0.00	0.00	0.00
03160103	0.00	0.00	0.00
03160105	0.10	0.00	0.10
03160106	0.01	0.58	0.58
03160107	0.00	0.00	0.00
03160108	0.00	0.00	0.00
03160109	0.73	2.43	3.17
03160110	0.00	0.00	0.00
03160111	0.71	0.00	0.71
03160112	0.20	0.00	0.20
03160113	1.37	0.67	2.04
03160201	0.00	67.93	67.93
03160202	0.00	1.12	1.12
03160203	5.83	25.56	31.39
03160204	5.43	3.61	9.04
03160205	1.06	0.00	1.06
Subtotal	*15.44*	*101.90*	*117.35*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.00	0.00	0.00
03170009	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	0.08	9.10	9.18
06030002	0.01	88.88	88.89
06030003	0.00	0.00	0.00
06030004	0.00	0.00	0.00
06030005	0.00	29.70	29.70
06030006	0.00	0.00	0.00
Subtotal	*0.09*	*127.68*	*127.76*
Total	**32.91**	**461.76**	**494.67**

Table 47. Monthly self-supplied industrial groundwater withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	2.98	2.87	3.00	2.95	2.96	3.00	2.97	2.87	2.93	3.03	2.91	2.87	2.94
03130004	0.34	0.56	0.59	0.60	0.57	0.61	0.59	0.57	0.58	0.59	0.58	0.59	0.56
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*3.32*	*3.44*	*3.59*	*3.55*	*3.53*	*3.60*	*3.56*	*3.44*	*3.51*	*3.62*	*3.49*	*3.46*	*3.51*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	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
03140202	1.00	1.07	1.29	1.13	1.06	1.12	1.07	1.07	1.23	1.24	1.16	1.20	1.14
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140302	0.00	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	0.19	0.20	0.17	0.15	0.18	0.19	0.22	0.22	0.24	0.20	0.20	0.18	0.19
03140304	1.48	1.54	1.56	1.56	1.59	1.56	1.53	1.37	1.35	1.36	1.34	1.34	1.46
03140305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*3.28*	*3.40*	*3.62*	*3.44*	*3.44*	*3.47*	*3.41*	*3.26*	*3.42*	*3.39*	*3.30*	*3.32*	*3.40*
Alabama													
03150105	0.00	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	1.68	1.62	1.71	1.58	1.72	1.84	1.73	1.77	1.72	1.74	1.83	1.74	1.72
03150107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150108	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150201	8.51	7.85	8.06	8.41	8.55	8.68	9.05	9.03	8.85	8.52	8.07	8.06	8.47
03150202	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
03150203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150204	0.14	0.15	0.14	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Subtotal	*10.48*	*9.77*	*10.07*	*10.25*	*10.54*	*10.80*	*11.05*	*11.08*	*10.85*	*10.54*	*10.17*	*10.08*	*10.48*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 47. Monthly self-supplied industrial groundwater withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.62	0.10
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
03160107	0.00	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	0.00	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	0.42	0.31	0.42	1.39	1.44	1.02	0.48	0.00	0.13	1.23	1.18	0.78	0.73
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	0.50	0.58	0.52	0.56	0.74	0.41	0.60	0.98	0.62	0.80	0.76	1.45	0.71
03160112	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
03160113	1.33	1.34	1.34	1.35	1.36	1.41	1.40	1.41	1.40	1.34	1.34	1.34	1.37
03160201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160203	6.83	4.79	5.74	5.61	5.37	5.14	4.87	5.60	6.86	6.56	6.04	6.46	5.83
03160204	5.33	5.26	5.65	5.43	5.17	5.63	5.32	5.60	5.34	5.26	5.55	5.56	5.43
03160205	1.05	1.06	1.05	1.06	1.05	1.05	1.05	1.06	1.07	1.07	1.09	1.10	1.06
Subtotal	*15.87*	*13.69*	*14.99*	*15.61*	*15.34*	*14.86*	*13.92*	*14.86*	*15.63*	*16.48*	*16.37*	*17.54*	*15.44*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	0.08	0.09	0.08	0.09	0.09	0.08	0.09	0.02	0.07	0.09	0.09	0.09	0.08
06030002	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
06030003	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030005	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.09*	*0.10*	*0.10*	*0.10*	*0.09*	*0.09*	*0.10*	*0.02*	*0.07*	*0.09*	*0.10*	*0.09*	*0.09*
Total	**33.04**	**30.40**	**32.37**	**32.95**	**32.94**	**32.81**	**32.04**	**32.66**	**33.48**	**34.12**	**33.43**	**34.49**	**32.91**

Table 48. Monthly self-supplied industrial surface water withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	24.64	18.93	24.65	24.65	25.68	27.87	28.05	27.94	28.27	28.37	26.20	26.18	26.00
03130004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*24.64*	*18.93*	*24.65*	*24.65*	*25.68*	*27.87*	*28.05*	*27.94*	*28.27*	*28.37*	*26.20*	*26.18*	*26.00*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140202	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140302	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140304	29.00	29.90	30.70	24.40	34.00	34.60	34.70	34.80	35.20	33.70	34.20	35.00	32.54
03140305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*29.00*	*29.90*	*30.70*	*24.40*	*34.00*	*34.60*	*34.70*	*34.80*	*35.20*	*33.70*	*34.20*	*35.00*	*32.54*
Alabama													
03150105	0.00	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	38.77	40.72	35.96	33.28	44.91	45.29	41.83	44.58	43.30	38.23	39.51	45.30	40.98
03150107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150108	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150201	65.13	61.49	62.26	61.07	57.62	63.15	70.71	66.65	65.60	64.94	60.13	64.82	63.66
03150202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150203	20.04	20.24	17.85	19.81	20.03	19.16	18.64	19.43	18.90	20.57	21.06	20.41	19.67
03150204	49.41	47.31	48.02	39.00	47.31	50.91	55.11	53.72	49.21	51.31	50.70	49.31	49.31
Subtotal	*173.34*	*169.76*	*164.08*	*153.17*	*169.88*	*178.51*	*186.28*	*184.37*	*177.01*	*175.06*	*171.40*	*179.83*	*173.63*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 48. Monthly self-supplied industrial surface water withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160106	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
03160107	0.00	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	0.00	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	2.77	2.40	1.89	2.06	2.17	2.41	2.61	2.69	2.87	2.69	2.52	2.08	2.43
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160113	0.84	0.82	0.70	0.75	0.91	0.90	1.18	1.17	0.22	0.21	0.17	0.20	0.67
03160201	65.48	66.78	59.78	66.18	68.78	59.98	71.78	75.48	73.78	70.28	68.08	68.58	67.93
03160202	1.08	1.08	1.08	1.08	1.15	1.15	1.15	1.15	1.15	1.15	1.08	1.08	1.12
03160203	27.81	25.06	25.69	25.85	25.92	26.41	25.97	26.48	25.83	21.45	24.20	26.03	25.56
03160204	3.22	3.05	2.99	3.09	3.52	3.73	4.11	4.60	4.50	3.93	2.99	3.55	3.61
03160205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*101.77*	*99.76*	*92.71*	*99.59*	*103.03*	*95.16*	*107.38*	*112.15*	*108.93*	*100.29*	*99.62*	*102.10*	*101.90*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	9.59	9.65	9.30	8.83	8.73	8.16	9.29	9.21	8.95	8.88	9.10	9.48	9.10
06030002	72.77	76.73	83.70	87.80	54.79	76.58	115.63	116.11	111.41	98.86	84.99	86.24	88.88
06030003	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030005	29.71	28.88	30.60	31.20	25.68	28.31	27.38	30.89	30.21	31.34	31.38	30.79	29.70
06030006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*112.06*	*115.26*	*123.60*	*127.82*	*89.20*	*113.05*	*152.30*	*156.21*	*150.56*	*139.07*	*125.48*	*126.51*	*127.68*
Total	**440.82**	**433.61**	**435.75**	**429.63**	**421.79**	**449.20**	**508.71**	**515.47**	**499.97**	**476.49**	**456.90**	**469.62**	**461.76**

Table 49. Monthly self-supplied industrial total water withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	27.61	21.80	27.65	27.60	28.64	30.87	31.02	30.81	31.20	31.40	29.11	29.05	28.95
03130004	0.34	0.56	0.59	0.60	0.57	0.61	0.59	0.57	0.58	0.59	0.58	0.59	0.56
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*27.96*	*22.37*	*28.24*	*28.20*	*29.21*	*31.47*	*31.61*	*31.38*	*31.78*	*31.99*	*29.69*	*29.64*	*29.51*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	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
03140202	1.00	1.07	1.29	1.13	1.06	1.12	1.07	1.07	1.23	1.24	1.16	1.20	1.14
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140302	0.00	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	0.19	0.20	0.17	0.15	0.18	0.19	0.22	0.22	0.24	0.20	0.20	0.18	0.19
03140304	30.48	31.44	32.26	25.96	35.59	36.16	36.23	36.17	36.55	35.06	35.54	36.34	34.01
03140305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*32.28*	*33.30*	*34.32*	*27.84*	*37.44*	*38.07*	*38.11*	*38.06*	*38.62*	*37.09*	*37.50*	*38.32*	*35.94*
Alabama													
03150105	0.00	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	40.44	42.34	37.67	34.86	46.63	47.14	43.55	46.36	45.02	39.97	41.33	47.04	42.71
03150107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150108	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150201	73.64	69.34	70.32	69.48	66.17	71.83	79.76	75.68	74.45	73.47	68.20	72.88	72.14
03150202	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
03150203	20.04	20.24	17.85	19.81	20.03	19.16	18.64	19.43	18.90	20.57	21.06	20.41	19.67
03150204	49.55	47.46	48.16	39.10	47.43	51.03	55.23	53.84	49.33	51.43	50.82	49.43	49.44
Subtotal	*183.82*	*179.53*	*174.15*	*163.41*	*180.42*	*189.31*	*197.33*	*195.46*	*187.86*	*185.60*	*181.57*	*189.91*	*184.11*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 49. Monthly self-supplied industrial total water withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.62	0.10
03160106	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
03160107	0.00	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	0.00	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	3.19	2.72	2.31	3.45	3.60	3.43	3.09	2.69	3.01	3.92	3.70	2.87	3.17
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	0.50	0.58	0.52	0.56	0.74	0.41	0.60	0.98	0.62	0.80	0.76	1.45	0.71
03160112	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
03160113	2.17	2.16	2.05	2.10	2.28	2.30	2.58	2.58	1.62	1.56	1.52	1.55	2.04
03160201	65.48	66.78	59.78	66.18	68.78	59.98	71.78	75.48	73.78	70.28	68.08	68.58	67.93
03160202	1.08	1.08	1.08	1.08	1.15	1.15	1.15	1.15	1.15	1.15	1.08	1.08	1.12
03160203	34.64	29.85	31.43	31.46	31.29	31.55	30.84	32.08	32.68	28.02	30.24	32.49	31.39
03160204	8.55	8.31	8.64	8.52	8.69	9.36	9.43	10.20	9.84	9.19	8.54	9.11	9.04
03160205	1.05	1.06	1.05	1.06	1.05	1.05	1.05	1.06	1.07	1.07	1.09	1.10	1.06
Subtotal	*117.65*	*113.45*	*107.71*	*115.20*	*118.37*	*110.02*	*121.30*	*127.01*	*124.55*	*116.77*	*115.99*	*119.64*	*117.35*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	9.67	9.74	9.38	8.92	8.82	8.24	9.38	9.22	9.01	8.97	9.20	9.57	9.18
06030002	72.78	76.73	83.72	87.80	54.80	76.59	115.64	116.12	111.41	98.86	85.00	86.24	88.89
06030003	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030005	29.71	28.88	30.60	31.20	25.68	28.31	27.38	30.89	30.21	31.34	31.38	30.79	29.70
06030006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*112.15*	*115.35*	*123.70*	*127.92*	*89.30*	*113.14*	*152.40*	*156.24*	*150.63*	*139.17*	*125.58*	*126.60*	*127.76*
Total	**473.85**	**464.01**	**468.12**	**462.58**	**454.74**	**482.01**	**540.75**	**548.13**	**533.46**	**510.62**	**490.34**	**504.11**	**494.67**

Mining

Mining water refers to water that is used for the extraction of naturally occurring minerals including solids, such as coal, sand, gravel, and other ores; liquids, such as crude petroleum; and gases, such as natural gas. Mining also includes uses associated with quarrying, milling, and other preparations customarily done at a mine site or as part of a mining activity. Mining water use does not include water associated with the dewatering of an aquifer that is not put to beneficial use and does not include water used in processing, such as smelting, refining petroleum, or slurry pipeline operations. These processing uses are included in the industrial sector.

Mining water withdrawals are listed by county and hydrologic subregion and subbasin in tables 50 and 51. For 2015, total mining withdrawals were 22 MGD, which is less than 1 percent of the total withdrawals and 1 percent of total withdrawals for all sectors except thermoelectric power (table 13). Groundwater was the source for approximately 73 percent (16 MGD) of mining withdrawals, and surface water was the source for the remaining 27 percent (6 MGD, figure 41). All mining withdrawals were assumed to be from freshwater, although some low-salinity groundwater has been tapped in parts of the state (Marlon Cook, Alabama Geological Survey, oral communication, January 2008).

The geographic distribution of total, groundwater and surface-water withdrawals for mining use by county and hydrologic subregion and subbasin are shown in figures 42 and 43. Washington, Elmore, Autauga, Macon, Sumter, Montgomery, Escambia, and Jefferson Counties all withdrew more than 1 MGD and accounted for 66 percent of the total mining water withdrawals. Thirty-five counties had no mining water withdrawals.

The Alabama hydrologic subregion accounted for 47 percent (10 MGD) of the total mining withdrawals with 71 percent of those withdrawals coming from groundwater (7 MGD). Within the Alabama hydrologic subregion, the largest subbasin withdrawals were the Upper Alabama (03150201; 4 MGD), the Lower Tallapoosa (03150110; 3 MGD) and the Lower Coosa (03150107; 1 MGD) subbasins. The largest groundwater withdrawals were in the Alabama hydrologic subregion (7 MGD) and accounted for 33 percent of the statewide mining groundwater withdrawals.

Estimates of mining water withdrawals by source of supply were determined by the USGS-NWIUP as part of the national effort to estimate water use for the United States for 2015. Water withdrawals were estimated from the methods described in the "Livestock, Aquaculture and Mining" section in the "Data Compilation, Sources of Information, and Methodology for Withdrawals" section of this report. The mining data was only derived as an annual daily average; therefore, no monthly tables were produced.

Figure 41. Source of water for mining use in Alabama in 2015, in MGD.

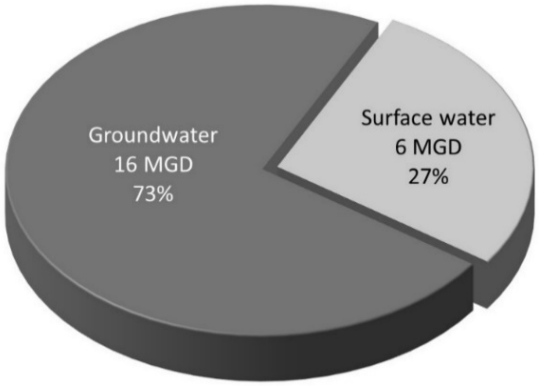


Figure 42. Map of mining withdrawals by source and county in Alabama in 2015, in MGD.

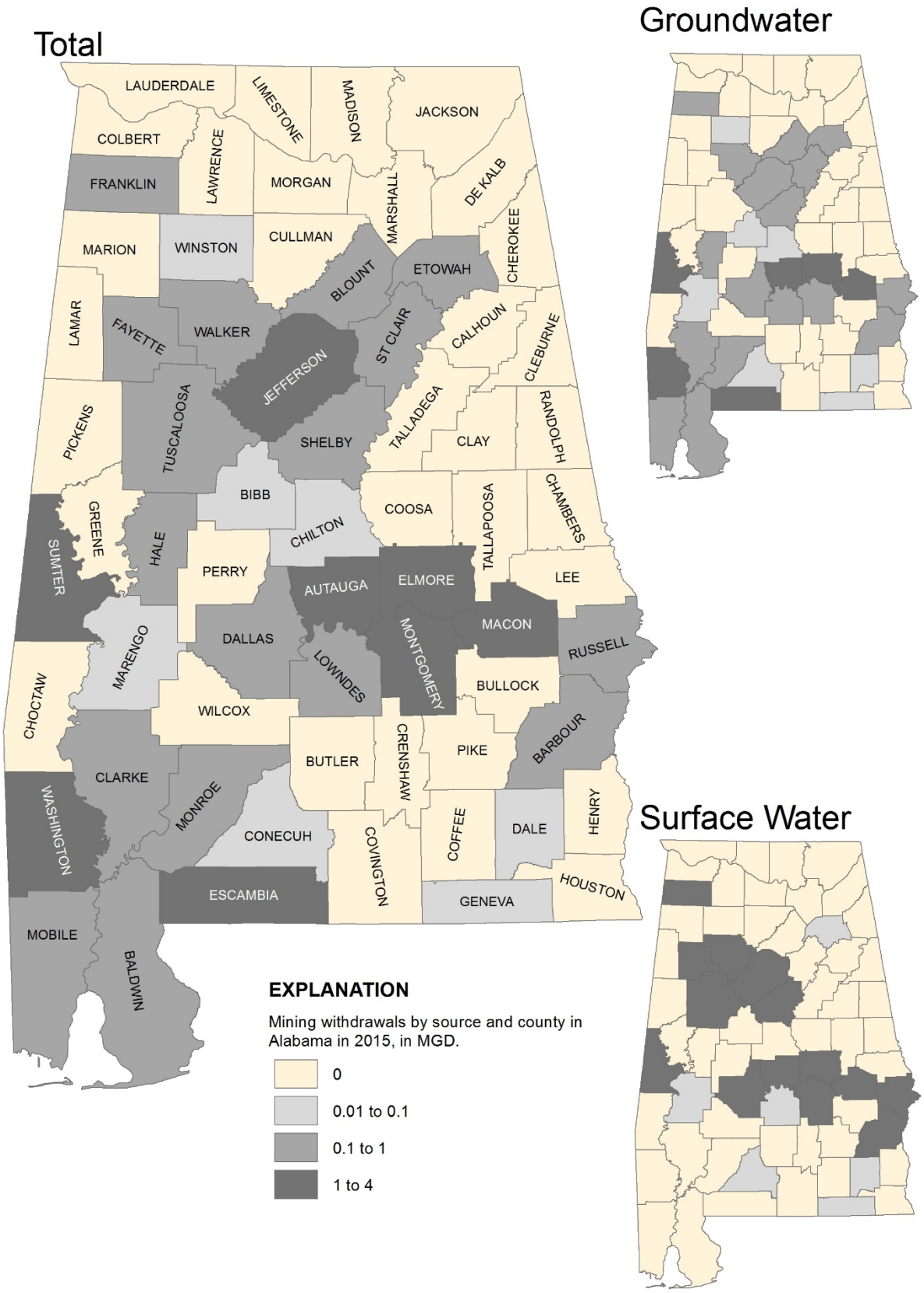


Figure 43. Map of mining withdrawals by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

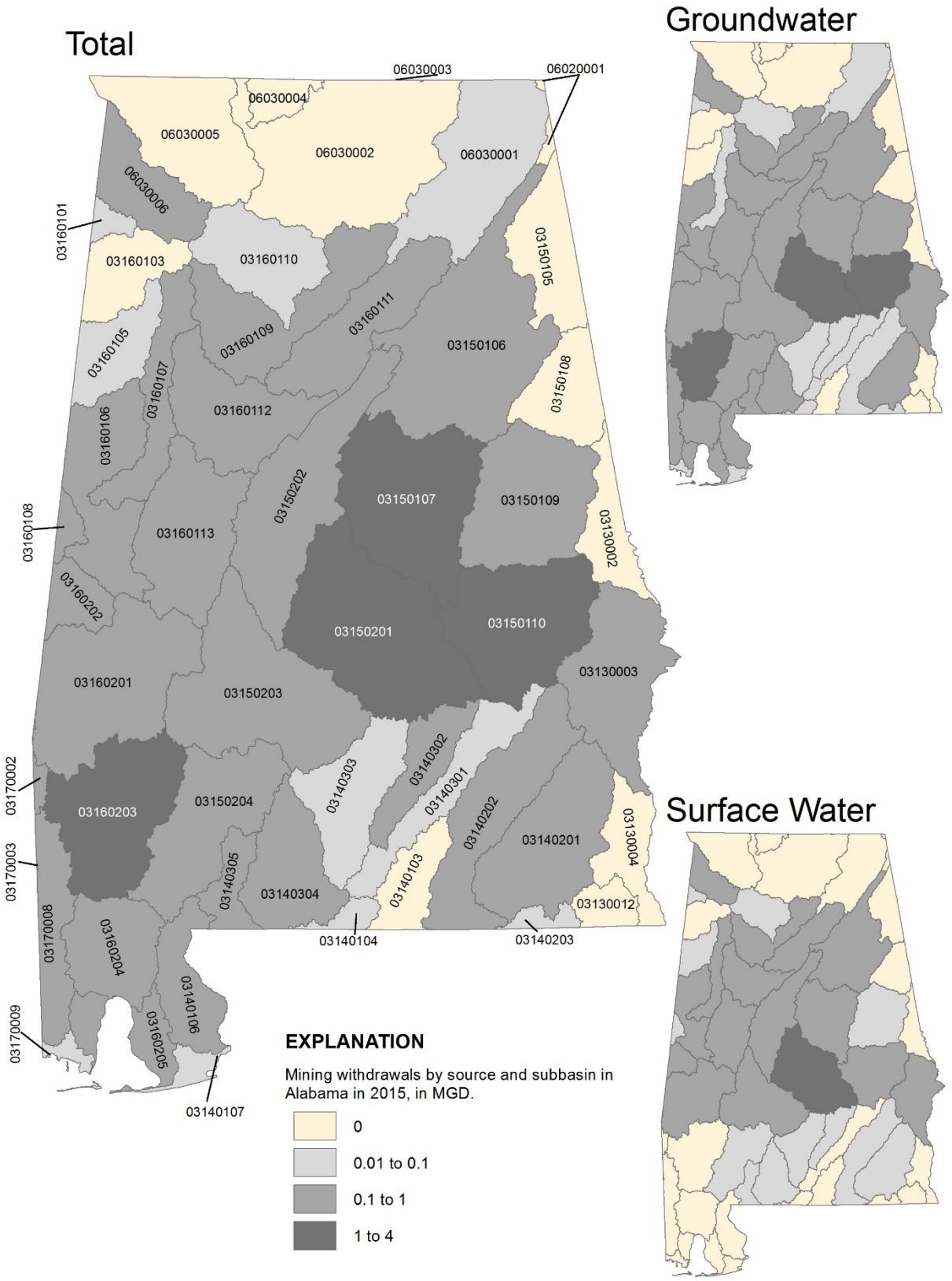


Table 50. Mining withdrawals by source and county in Alabama in 2015, in MGD.

	Withdrawals by source in million gallons per day				Withdrawals by source in million gallons per day		
County Name	Groundwater	Surface water	Total	County Name	Groundwater	Surface water	Total
AUTAUGA	1.40	0.62	2.02	HOUSTON	0.00	0.00	0.00
BALDWIN	0.22	0.00	0.22	JACKSON	0.00	0.00	0.00
BARBOUR	0.30	0.14	0.44	JEFFERSON	0.62	0.47	1.09
BIBB	0.01	0.00	0.01	LAMAR	0.00	0.00	0.00
BLOUNT	0.19	0.00	0.19	LAUDERDALE	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	LAWRENCE	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	LEE	0.00	0.00	0.00
CALHOUN	0.00	0.00	0.00	LIMESTONE	0.00	0.00	0.00
CHAMBERS	0.00	0.00	0.00	LOWNDES	0.16	0.08	0.24
CHEROKEE	0.00	0.00	0.00	MACON	1.05	0.52	1.57
CHILTON	0.06	0.00	0.06	MADISON	0.00	0.00	0.00
CHOCTAW	0.00	0.00	0.00	MARENGO	0.02	0.01	0.03
CLARKE	0.86	0.00	0.86	MARION	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	MARSHALL	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	MOBILE	0.22	0.00	0.22
COFFEE	0.00	0.00	0.00	MONROE	0.15	0.00	0.15
COLBERT	0.00	0.00	0.00	MONTGOMERY	0.80	0.38	1.18
CONECUH	0.04	0.02	0.06	MORGAN	0.00	0.00	0.00
COOSA	0.00	0.00	0.00	PERRY	0.00	0.00	0.00
COVINGTON	0.00	0.00	0.00	PICKENS	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	PIKE	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	RANDOLPH	0.00	0.00	0.00
DALE	0.05	0.03	0.08	RUSSELL	0.34	0.17	0.51
DALLAS	0.50	0.22	0.72	SHELBY	0.32	0.16	0.48
DEKALB	0.00	0.00	0.00	ST CLAIR	0.51	0.00	0.51
ELMORE	1.95	0.92	2.87	SUMTER	1.06	0.49	1.55
ESCAMBIA	1.15	0.00	1.15	TALLADEGA	0.00	0.00	0.00
ETOWAH	0.22	0.10	0.32	TALLAPOOSA	0.00	0.00	0.00
FAYETTE	0.00	0.31	0.31	TUSCALOOSA	0.00	0.85	0.85
FRANKLIN	0.34	0.15	0.49	WALKER	0.13	0.41	0.54
GENEVA	0.05	0.02	0.07	WASHINGTON	3.22	0.00	3.22
GREENE	0.00	0.00	0.00	WILCOX	0.00	0.00	0.00
HALE	0.12	0.00	0.12	WINSTON	0.05	0.00	0.05
HENRY	0.00	0.00	0.00	**TOTAL**	**16.11**	**6.07**	**22.18**

Table 51. Mining withdrawals by source and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day		
	Groundwater	Surface water	Total
Apalachicola			
03130002	0.00	0.00	0.00
03130003	0.53	0.26	0.78
03130004	0.00	0.00	0.00
03130012	0.00	0.00	0.00
Subtotal	*0.53*	*0.26*	*0.79*
Chocawhatchee-Escambia			
03140103	0.00	0.00	0.00
03140104	0.09	0.00	0.09
03140106	0.14	0.00	0.14
03140107	0.03	0.00	0.03
03140201	0.15	0.08	0.23
03140202	0.08	0.04	0.12
03140203	0.01	0.00	0.02
03140301	0.02	0.01	0.03
03140302	0.09	0.04	0.13
03140303	0.04	0.01	0.05
03140304	0.65	0.01	0.66
03140305	0.29	0.00	0.29
Subtotal	*1.59*	*0.19*	*1.78*
Alabama			
03150105	0.00	0.00	0.00
03150106	0.69	0.10	0.79
03150107	0.84	0.39	1.23
03150108	0.00	0.00	0.00
03150109	0.15	0.07	0.23
03150110	1.98	0.96	2.94
03150201	2.57	1.16	3.74
03150202	0.38	0.21	0.59
03150203	0.37	0.15	0.53
03150204	0.39	0.00	0.39
Subtotal	*7.38*	*3.05*	*10.43*
Mobile-Tombigbee			
03160101	0.03	0.01	0.05
03160103	0.00	0.00	0.00
03160105	0.00	0.08	0.08
03160106	0.22	0.11	0.32
03160107	0.00	0.25	0.25
03160108	0.14	0.07	0.21
03160109	0.16	0.38	0.54
03160110	0.05	0.03	0.07
03160111	0.48	0.25	0.72
03160112	0.17	0.69	0.86
03160113	0.12	0.25	0.37
03160201	0.38	0.13	0.51
03160202	0.44	0.21	0.65
03160203	2.84	0.00	2.84
03160204	0.12	0.00	0.12
03160205	0.10	0.00	0.10
Subtotal	*5.27*	*2.44*	*7.71*
Pascagoula			
03170002	0.12	0.00	0.12
03170003	0.00	0.00	0.00
03170008	0.84	0.00	0.84
03170009	0.04	0.00	0.04
Subtotal	*1.00*	*0.00*	*1.00*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	0.02	0.00	0.02
06030002	0.00	0.00	0.00
06030003	0.00	0.00	0.00
06030004	0.00	0.00	0.00
06030005	0.04	0.02	0.06
06030006	0.27	0.12	0.38
Subtotal	*0.33*	*0.14*	*0.47*
Total	**16.11**	**6.07**	**22.18**

Thermoelectric Power

Thermoelectric-power water is water used in the process of generating electricity with steam-driven turbine generators and for other onsite needs. For 2015, thermoelectric-power water withdrawals were compiled by cooling-system type because cooling system type is the primary determinant of consumptive use relative to withdrawals. Once-through cooling (also known as open-loop cooling) refers to cooling systems in which water is withdrawn from a source, circulated through heat exchangers, and then returned to a surface-water body. Recirculating cooling (also known as closed-cycle cooling) refers to cooling systems in which water is withdrawn from a source, circulated through heat exchanger where it is cooled and then recycled. Subsequent water withdrawals for a recirculating-cooling system are used to replace water lost to evaporation, blowdown, drift, and leakage. Thermoelectric-power withdrawals were reported by the USGS by condenser cooling water use from 1950 to 1980, by fuel-type from 1985 through 1995, and by cooling type for 2005 through 2015.

Total thermoelectric-power withdrawals are listed by county and hydrologic subregion and subbasin in tables 52 through 55 with tables 53 and 55 showing monthly withdrawals. Total thermoelectric-power water withdrawals by cooling type are listed by county and hydrologic subregion and subbasin in tables 56 and 57. The total quantity of water withdrawn for thermoelectric power in 2015 was 6,624 MGD. Surface water was the source for all thermoelectric-power withdrawals. Thermoelectric-power withdrawals accounted for 80 percent of total water withdrawals and 86 percent of total surface-water withdrawals. Thermoelectric-power plants that used self-supplied water produced 127,677 gigawatt-hours of energy in 2015.

The geographic distribution of withdrawals for thermoelectric power by county and hydrologic subbasin are shown in figures 44 and 45. Although some power generation occurs in every subregion with the exception of the Pascagoula and the Alabama portion of the Middle Tennessee-Hiwassee, water was used in power generation is only in 13 counties (figure 44). The largest withdrawals were in Limestone, Colbert (Middle Tennessee-Elk subregion), and Mobile (Mobile-Tombigbee subregion) Counties.

Sources of data for thermoelectric power were OWR AWURP, DOE-EIA, and individual facilities. The AWURP eWater application includes monthly average daily water withdrawals, source of water, and location information. Details are in the “Thermoelectric Power and Industrial” section in the “Data Compilation, Sources of Information, and Methodology for Withdrawals” section in this report.

Figure 44. Map of thermoelectric-power withdrawals by county in Alabama in 2015, in MGD.

Figure 45. Map of thermoelectric-power withdrawals by subbasin in Alabama in 2015, in MGD.

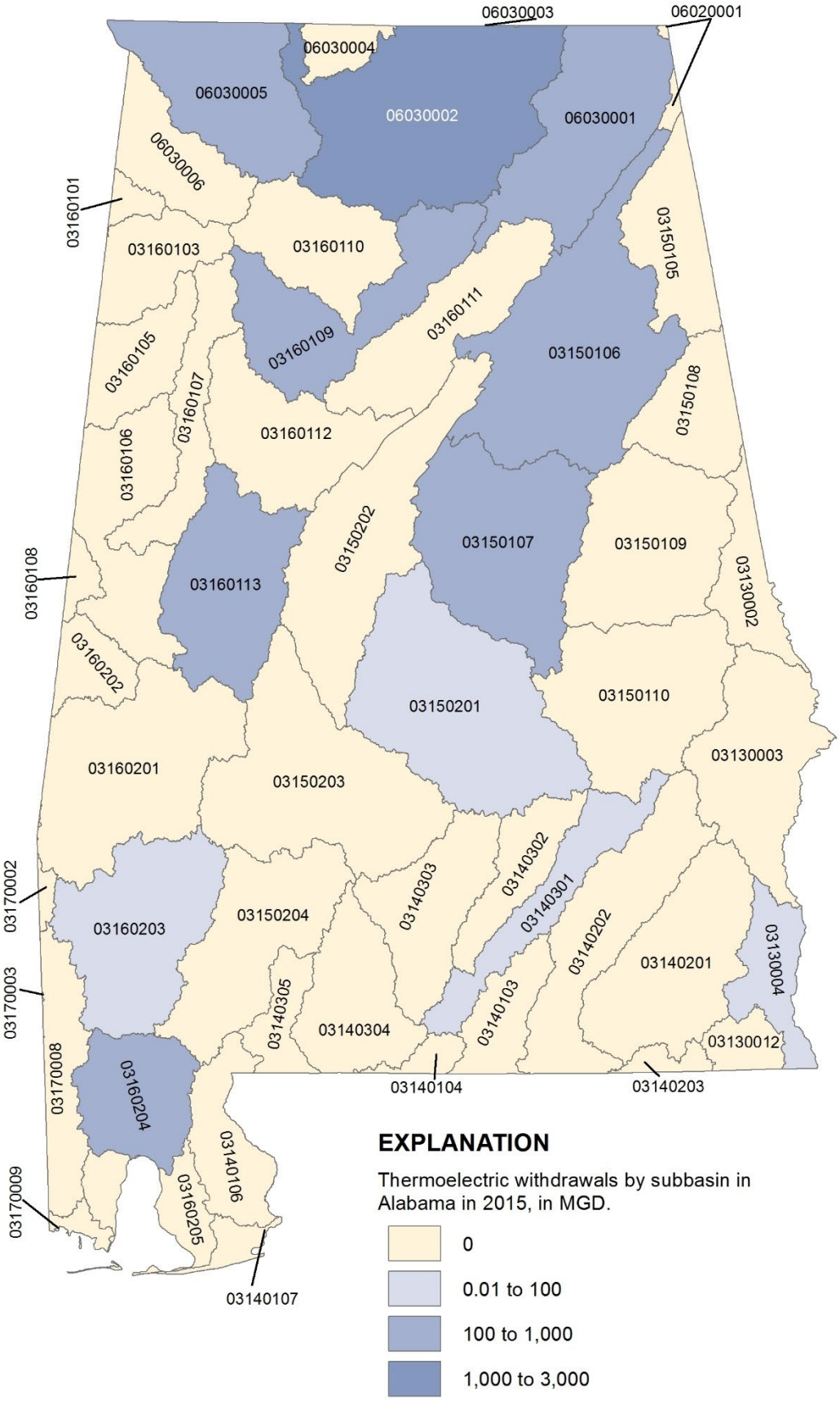


Table 52. Thermoelectric-power withdrawals by county in Alabama in 2015, in MGD.

	Withdrawals by source in million gallons per day				Withdrawals by source in million gallons per day		
County Name	Groundwater	Surface water	Total	County Name	Groundwater	Surface water	Total
AUTAUGA	0.00	11.86	11.86	HOUSTON	0.00	99.08	99.08
BALDWIN	0.00	0.00	0.00	JACKSON	0.00	352.22	352.22
BARBOUR	0.00	0.00	0.00	JEFFERSON	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	LAMAR	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	LAUDERDALE	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	LAWRENCE	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	LEE	0.00	0.00	0.00
CALHOUN	0.00	0.00	0.00	LIMESTONE	0.00	2,850.13	2,850.13
CHAMBERS	0.00	0.00	0.00	LOWNDES	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	MACON	0.00	0.00	0.00
CHILTON	0.00	0.00	0.00	MADISON	0.00	0.00	0.00
CHOCTAW	0.00	0.00	0.00	MARENGO	0.00	0.00	0.00
CLARKE	0.00	0.00	0.00	MARION	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	MARSHALL	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	MOBILE	0.00	693.70	693.70
COFFEE	0.00	0.00	0.00	MONROE	0.00	0.00	0.00
COLBERT	0.00	963.99	963.99	MONTGOMERY	0.00	0.00	0.00
CONECUH	0.00	0.00	0.00	MORGAN	0.00	2.68	2.68
COOSA	0.00	0.00	0.00	PERRY	0.00	0.00	0.00
COVINGTON	0.00	1.15	1.15	PICKENS	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	PIKE	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	RANDOLPH	0.00	0.00	0.00
DALE	0.00	0.00	0.00	RUSSELL	0.00	0.00	0.00
DALLAS	0.00	0.00	0.00	SHELBY	0.00	462.22	462.22
DEKALB	0.00	0.00	0.00	ST CLAIR	0.00	0.00	0.00
ELMORE	0.00	0.00	0.00	SUMTER	0.00	0.00	0.00
ESCAMBIA	0.00	0.00	0.00	TALLADEGA	0.00	0.00	0.00
ETOWAH	0.00	105.52	105.52	TALLAPOOSA	0.00	0.00	0.00
FAYETTE	0.00	0.00	0.00	TUSCALOOSA	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	WALKER	0.00	664.34	664.34
GENEVA	0.00	0.00	0.00	WASHINGTON	0.00	39.94	39.94
GREENE	0.00	377.42	377.42	WILCOX	0.00	0.00	0.00
HALE	0.00	0.00	0.00	WINSTON	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	TOTAL	0.00	6,624.25	6,624.25

Table 53. Monthly thermoelectric-power withdrawals by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	10.15	9.62	7.82	7.67	13.42	14.43	16.49	16.22	15.49	10.61	9.84	10.41	11.86
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALHOUN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHOCTAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLARKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLBERT	1,060.06	1,045.32	872.87	908.30	1,082.00	958.00	1,086.00	1,086.00	983.50	946.77	730.23	807.77	963.99
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
COVINGTON	0.99	0.68	1.02	0.59	1.01	1.34	1.42	1.43	1.10	1.29	1.70	1.15	1.15
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEKALB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELMORE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESCAMBIA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ETOWAH	98.21	137.20	128.84	96.27	110.07	105.62	92.10	96.13	108.40	102.43	95.03	98.41	105.52
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	361.85	387.42	157.19	392.22	413.79	413.64	415.01	406.79	419.41	419.54	324.58	419.89	377.42
HALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 53. Monthly thermoelectric-power withdrawals by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	101.55	94.65	86.71	64.65	94.83	118.48	114.38	111.62	106.84	110.38	99.76	84.50	99.08
JACKSON	446.95	446.38	446.38	481.88	507.22	483.80	483.80	483.80	456.01	0.00	0.00	0.00	352.22
JEFFERSON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	2,895.70	2,895.70	2,428.90	2,618.70	2,796.40	2,926.98	2,934.41	2,933.25	2,895.70	2,846.00	2,990.30	3,045.00	2,850.13
LOWNDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARENGO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOBILE	329.20	555.13	778.21	766.67	639.34	745.74	745.87	796.97	913.35	710.52	662.26	677.81	693.70
MONROE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MONTGOMERY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MORGAN	1.95	4.06	2.46	1.77	3.78	3.49	4.15	2.39	3.07	1.12	2.29	1.81	2.68
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHELBY	546.69	598.92	500.15	314.83	532.89	640.49	672.63	589.29	488.51	167.18	230.78	271.85	462.22
ST CLAIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUMTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TALLADEGA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
TUSCALOOSA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WALKER	478.20	698.52	604.10	583.88	779.45	792.36	792.85	792.21	780.99	616.60	331.10	719.63	664.34
WASHINGTON	45.30	46.10	13.70	44.30	45.40	47.00	48.00	47.40	45.50	24.20	45.40	28.30	39.94
WILCOX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WINSTON	0.00	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	**6,376.81**	**6,919.70**	**6,028.35**	**6,281.73**	**7,019.59**	**7,251.37**	**7,407.10**	**7,363.50**	**7,217.86**	**5,956.64**	**5,523.27**	**6,166.53**	**6,624.25**

Table 54. Thermoelectric-power withdrawals by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Withdrawals by source, in million gallons per day		
	Groundwater	Surface water	Total
Apalachicola			
03130002	0.00	0.00	0.00
03130003	0.00	0.00	0.00
03130004	0.00	99.08	99.08
03130012	0.00	0.00	0.00
Subtotal	*0.00*	*99.08*	*99.08*
Chocawhatchee-Escambia			
03140103	0.00	0.00	0.00
03140104	0.00	0.00	0.00
03140106	0.00	0.00	0.00
03140107	0.00	0.00	0.00
03140201	0.00	0.00	0.00
03140202	0.00	0.00	0.00
03140203	0.00	0.00	0.00
03140301	0.00	1.15	1.15
03140302	0.00	0.00	0.00
03140303	0.00	0.00	0.00
03140304	0.00	0.00	0.00
03140305	0.00	0.00	0.00
Subtotal	*0.00*	*1.15*	*1.15*
Alabama			
03150105	0.00	0.00	0.00
03150106	0.00	105.52	105.52
03150107	0.00	462.22	462.22
03150108	0.00	0.00	0.00
03150109	0.00	0.00	0.00
03150110	0.00	0.00	0.00
03150201	0.00	11.86	11.86
03150202	0.00	0.00	0.00
03150203	0.00	0.00	0.00
03150204	0.00	0.00	0.00
Subtotal	*0.00*	*579.60*	*579.60*
Mobile-Tombigbee			
03160101	0.00	0.00	0.00
03160103	0.00	0.00	0.00
03160105	0.00	0.00	0.00
03160106	0.00	0.00	0.00
03160107	0.00	0.00	0.00
03160108	0.00	0.00	0.00
03160109	0.00	664.34	664.34
03160110	0.00	0.00	0.00
03160111	0.00	0.00	0.00
03160112	0.00	0.00	0.00
03160113	0.00	377.42	377.42
03160201	0.00	0.00	0.00
03160202	0.00	0.00	0.00
03160203	0.00	39.94	39.94
03160204	0.00	693.70	693.70
03160205	0.00	0.00	0.00
Subtotal	*0.00*	*1,775.40*	*1,775.40*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.00	0.00	0.00
03170009	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	0.00	352.22	352.22
06030002	0.00	2,852.82	2,852.82
06030003	0.00	0.00	0.00
06030004	0.00	0.00	0.00
06030005	0.00	963.99	963.99
06030006	0.00	0.00	0.00
Subtotal	*0.00*	*4,169.03*	*4,169.03*
Total	**0.00**	**6,624.25**	**6,624.25**

Table 55. Monthly thermoelectric-power withdrawals by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03130004	101.55	94.65	86.71	64.65	94.83	118.48	114.38	111.62	106.84	110.38	99.76	84.50	99.08
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*101.55*	*94.65*	*86.71*	*64.65*	*94.83*	*118.48*	*114.38*	*111.62*	*106.84*	*110.38*	*99.76*	*84.50*	*99.08*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140202	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.99	0.68	1.02	0.59	1.01	1.34	1.42	1.43	1.10	1.29	1.70	1.15	1.15
03140302	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.99*	*0.68*	*1.02*	*0.59*	*1.01*	*1.34*	*1.42*	*1.43*	*1.10*	*1.29*	*1.70*	*1.15*	*1.15*
Alabama													
03150105	0.00	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	98.21	137.20	128.84	96.27	110.07	105.62	92.10	96.13	108.40	102.43	95.03	98.41	105.52
03150107	546.69	598.92	500.15	314.83	532.89	640.49	672.63	589.29	488.51	167.18	230.78	271.85	462.22
03150108	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150201	10.15	9.62	7.82	7.67	13.42	14.43	16.49	16.22	15.49	10.61	9.84	10.41	11.86
03150202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*655.06*	*745.74*	*636.81*	*418.76*	*656.38*	*760.54*	*781.22*	*701.65*	*612.40*	*280.22*	*335.65*	*380.67*	*579.60*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 55. Monthly thermoelectric-power withdrawals by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160107	0.00	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	0.00	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	478.20	698.52	604.10	583.88	779.45	792.36	792.85	792.21	780.99	616.60	331.10	719.63	664.34
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160113	361.85	387.42	157.19	392.22	413.79	413.64	415.01	406.79	419.41	419.54	324.58	419.89	377.42
03160201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160203	45.30	46.10	13.70	44.30	45.40	47.00	48.00	47.40	45.50	24.20	45.40	28.30	39.94
03160204	329.20	555.13	778.21	766.67	639.34	745.74	745.87	796.97	913.35	710.52	662.26	677.81	693.70
03160205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*1,214.55*	*1,687.17*	*1,553.20*	*1,787.07*	*1,877.98*	*1,998.74*	*2,001.73*	*2,043.37*	*2,159.25*	*1,770.86*	*1,363.34*	*1,845.63*	*1,775.40*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	446.95	446.38	446.38	481.88	507.22	483.80	483.80	483.80	456.01	0.00	0.00	0.00	352.22
06030002	2,897.65	2,899.76	2,431.36	2,620.47	2,800.18	2,930.47	2,938.56	2,935.64	2,898.77	2,847.12	2,992.59	3,046.81	2,852.82
06030003	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030005	1,060.06	1,045.32	872.87	908.30	1,082.00	958.00	1,086.00	1,086.00	983.50	946.77	730.23	807.77	963.99
06030006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*4,404.66*	*4,391.46*	*3,750.61*	*4,010.65*	*4,389.39*	*4,372.27*	*4,508.36*	*4,505.44*	*4,338.28*	*3,793.89*	*3,722.82*	*3,854.58*	*4,169.03*
Total	**6,376.81**	**6,919.70**	**6,028.35**	**6,281.73**	**7,019.59**	**7,251.37**	**7,407.10**	**7,363.50**	**7,217.86**	**5,956.64**	**5,523.27**	**6,166.53**	**6,624.25**

Table 56. Thermoelectric-power withdrawals by cooling type by county in Alabama in 2015, in MGD.

	ONCE THROUGH COOLING WITHDRAWALS by source, in million gallons per day			RECIRCULATING COOLING WITHDRAWALS by source, in million gallons per day		
County Name	Groundwater	Surface water	Total	Groundwater	Surface water	Total
AUTAUGA	0.00	0.00	0.00	0.00	11.86	11.86
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	0.00	0.00	0.00	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	0.00	0.00	0.00
CALHOUN	0.00	0.00	0.00	0.00	0.00	0.00
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.00	0.00	0.00	0.00	0.00	0.00
CHOCTAW	0.00	0.00	0.00	0.00	0.00	0.00
CLARKE	0.00	0.00	0.00	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	0.00	0.00	0.00	0.00	0.00	0.00
COLBERT	0.00	963.99	963.99	0.00	0.00	0.00
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00
COOSA	0.00	0.00	0.00	0.00	0.00	0.00
COVINGTON	0.00	0.00	0.00	0.00	1.15	1.15
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	0.00	0.00	0.00
DALE	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	0.00	0.00	0.00	0.00	0.00	0.00
DEKALB	0.00	0.00	0.00	0.00	0.00	0.00
ELMORE	0.00	0.00	0.00	0.00	0.00	0.00
ESCAMBIA	0.00	0.00	0.00	0.00	0.00	0.00
ETOWAH	0.00	105.52	105.52	0.00	0.00	0.00
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	0.00	377.42	377.42	0.00	0.00	0.00
HALE	0.00	0.00	0.00	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	0.00	0.00	0.00

Table 56. Thermoelectric-power withdrawals by cooling type by county in Alabama in 2015, in MGD – Continued.

County Name	ONCE THROUGH COOLING WITHDRAWALS by source, in million gallons per day			RECIRCULATING COOLING WITHDRAWALS by source, in million gallons per day		
	Groundwater	Surface water	Total	Groundwater	Surface water	Total
HOUSTON	0.00	0.00	0.00	0.00	99.08	99.08
JACKSON	0.00	352.22	352.22	0.00	0.00	0.00
JEFFERSON	0.00	0.00	0.00	0.00	0.00	0.00
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00
LEE	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	0.00	2,850.13	2,850.13	0.00	0.00	0.00
LOWNDES	0.00	0.00	0.00	0.00	0.00	0.00
MACON	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.00	0.00	0.00	0.00	0.00	0.00
MARENGO	0.00	0.00	0.00	0.00	0.00	0.00
MARION	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.00	0.00	0.00	0.00	0.00	0.00
MOBILE	0.00	693.70	693.70	0.00	0.00	0.00
MONROE	0.00	0.00	0.00	0.00	0.00	0.00
MONTGOMERY	0.00	0.00	0.00	0.00	0.00	0.00
MORGAN	0.00	0.00	0.00	0.00	2.68	2.68
PERRY	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.00	0.00	0.00	0.00	0.00	0.00
PIKE	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	0.00	0.00	0.00	0.00	0.00	0.00
SHELBY	0.00	446.50	446.50	0.00	15.72	15.72
ST CLAIR	0.00	0.00	0.00	0.00	0.00	0.00
SUMTER	0.00	0.00	0.00	0.00	0.00	0.00
TALLADEGA	0.00	0.00	0.00	0.00	0.00	0.00
TALLAPOOSA	0.00	0.00	0.00	0.00	0.00	0.00
TUSCALOOSA	0.00	0.00	0.00	0.00	0.00	0.00
WALKER	0.00	638.21	638.21	0.00	26.13	26.13
WASHINGTON	0.00	37.21	37.21	0.00	2.73	2.73
WILCOX	0.00	0.00	0.00	0.00	0.00	0.00
WINSTON	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**6,464.90**	**6,464.90**	**0.00**	**159.35**	**159.35**

Table 57. Thermoelectric-power withdrawals by cooling type by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

	ONCE THROUGH COOLING WITHDRAWALS by source, in million gallons per day			RECIRCULATING COOLING WITHDRAWALS by source, in million gallons per day		
Hydrologic subregion and subbasin	Groundwater	Surface water	Total	Groundwater	Surface water	Total
Apalachicola						
03130002	0.00	0.00	0.00	0.00	0.00	0.00
03130003	0.00	0.00	0.00	0.00	0.00	0.00
03130004	0.00	0.00	0.00	0.00	99.08	99.08
03130012	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*99.08*	*99.08*
Chocawhatchee-Escambia						
03140103	0.00	0.00	0.00	0.00	0.00	0.00
03140104	0.00	0.00	0.00	0.00	0.00	0.00
03140106	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	0.00	0.00	0.00	0.00	0.00
03140201	0.00	0.00	0.00	0.00	0.00	0.00
03140202	0.00	0.00	0.00	0.00	0.00	0.00
03140203	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.00	0.00	0.00	0.00	1.15	1.15
03140302	0.00	0.00	0.00	0.00	0.00	0.00
03140303	0.00	0.00	0.00	0.00	0.00	0.00
03140304	0.00	0.00	0.00	0.00	0.00	0.00
03140305	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*1.15*	*1.15*
Alabama						
03150105	0.00	0.00	0.00	0.00	0.00	0.00
03150106	0.00	105.52	105.52	0.00	0.00	0.00
03150107	0.00	446.50	446.50	0.00	15.72	15.72
03150108	0.00	0.00	0.00	0.00	0.00	0.00
03150109	0.00	0.00	0.00	0.00	0.00	0.00
03150110	0.00	0.00	0.00	0.00	0.00	0.00
03150201	0.00	0.00	0.00	0.00	11.86	11.86
03150202	0.00	0.00	0.00	0.00	0.00	0.00
03150203	0.00	0.00	0.00	0.00	0.00	0.00
03150204	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*552.02*	*552.02*	*0.00*	*27.58*	*27.58*
Mobile-Tombigbee						
03160101	0.00	0.00	0.00	0.00	0.00	0.00

Table 57. Thermoelectric-power withdrawals by cooling type by hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	ONCE THROUGH COOLING WITHDRAWALS by source, in million gallons per day			RECIRCULATING COOLING WITHDRAWALS by source, in million gallons per day		
	Groundwater	Surface water	Total	Groundwater	Surface water	Total
03160103	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.00	0.00	0.00	0.00	0.00	0.00
03160106	0.00	0.00	0.00	0.00	0.00	0.00
03160107	0.00	0.00	0.00	0.00	0.00	0.00
03160108	0.00	0.00	0.00	0.00	0.00	0.00
03160109	0.00	638.21	638.21	0.00	26.13	26.13
03160110	0.00	0.00	0.00	0.00	0.00	0.00
03160111	0.00	0.00	0.00	0.00	0.00	0.00
03160112	0.00	0.00	0.00	0.00	0.00	0.00
03160113	0.00	377.42	377.42	0.00	0.00	0.00
03160201	0.00	0.00	0.00	0.00	0.00	0.00
03160202	0.00	0.00	0.00	0.00	0.00	0.00
03160203	0.00	37.21	37.21	0.00	2.73	2.73
03160204	0.00	693.70	693.70	0.00	0.00	0.00
03160205	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*1,746.54*	*1,746.54*	*0.00*	*28.86*	*28.86*
Pascagoula						
03170002	0.00	0.00	0.00	0.00	0.00	0.00
03170003	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00
03170009	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee						
06020001	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk						
06030001	0.00	352.22	352.22	0.00	0.00	0.00
06030002	0.00	2,850.13	2,850.13	0.00	2.68	2.68
06030003	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.00	0.00	0.00	0.00	0.00	0.00
06030005	0.00	963.99	963.99	0.00	0.00	0.00
06030006	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*4,166.34*	*4,166.34*	*0.00*	*2.68*	*2.68*
Total	**0.00**	**6,464.90**	**6,464.90**	**0.00**	**159.35**	**159.35**

Comparison of 2010 and 2015 Water-Withdrawal Data

While some water use data was collected in earlier years (see figure 1), only after the establishment of OWR in 1993 did the Alabama water use program begin to gather detailed information on the county and subbasin level. Significant data was first collected and reported in 2000 but mining and livestock water use information was not obtained. Therefore, starting with the 2005 report and continuing with this report, OWR has analyzed detailed water use in each county and subbasin using similar methods to assess and describe water use around the state. Most of the data comes from the AWURP program which is collected annually by OWR. Additional data is developed from surveys and other outside sources.

2010 Errata

Since publication of the 2010 report, errors noted by OWR and other have been tracked and are included in the 2010 to 2015 comparison in this section. There were corrections made to some basin assignments in the public supply sector, and one small withdrawal deleted, but no additional withdrawals added. The public-supply withdrawal that was deleted was 0.1 MGD in Baldwin County and the Mobile Bay subbasin (03160205), so it had very little effect on the public supply total for 2010. It was deleted after discovering it was a non-community water system. There were no changes in the aquaculture, industrial, irrigation, livestock, mining, self-supplied residential, and thermoelectric sectors. There were also additional sections added to 2015 that were not included in 2010. Those sections were: self-supplied residential by subbasin, mining by subbasin and aquaculture by subbasin.

Total Water Withdrawals

The geographic distribution of the comparison of total withdrawals from 2010 to 2015 is shown in tables 58 and 59. Overall total water withdrawals decreased 18 percent from 2010 to 2015 from 9,998 MGD in 2010 to 8,239 MGD in 2015. Public-supply (-9%), self-supplied residential (-3%), livestock (-1%), aquaculture (-16%), industrial (-9%) and thermoelectric-power withdrawals (-20%) all decreased from 2010 to 2015, while irrigation (11%) and mining withdrawals (7%) increased. The counties with the largest increases in total withdrawals from 2010 to 2015 were Limestone (130 MGD), Greene (22 MGD), and Baldwin (12 MGD) Counties. The counties with the largest decreases in total withdrawals from 2010 to 2015 were Jackson (-691 MGD), Colbert (-339 MGD), Mobile (-313 MGD), Walker (-250 MGD), and Shelby (-206 MGD) Counties (figure 46). The subbasins with the largest increases in total water withdrawals from 2010 to 2015 were the Wheeler Lake (06030002; 69 MGD), the Lower Black Warrior (03160113; 46 MGD), and the Upper Alabama (03150201; 20 MGD) subbasins. The subbasins with the largest decreases in total withdrawals from 2010 to 2015 were the Guntersville Lake (06030002; -694 MGD), the Pickwick Lake (06020005; -339 MGD), the Mobile-Tensaw (03160204; -293 MGD), the Mulberry Fork (03160109; -258 MGD) and Lower Coosa (03150107; -200 MGD) subbasins (figure 47).

Total surface-water withdrawals decreased 19 percent from 9,511 MGD in 2010 to 7,743 MGD in 2015. The counties with the largest increases in total surface-water withdrawals from 2010 to 2015 were Limestone (127 MGD), Greene (2 MGD), and Houston (9 MGD) Counties. The subbasins with the largest increases in total surface-water withdrawals from 2010 to 2015 were the Wheeler Lake (06030002; 64 MGD), the Lower Black Warrior (03160113; 32 MGD), and the Upper Alabama (03150201; 10 MGD) subbasins. Some of these increases were due to the addition of the mining, aquaculture, and self-supplied residential sectors to the subbasin analysis for 2015. The counties with the largest decreases in total surface-water withdrawals from 2010 to 2015 were Jackson (-691 MGD), Colbert (-339 MGD), Mobile (-313 MGD), Walker (-250 MGD), and Shelby (-206 MGD) Counties, primarily due to decreased thermoelectric-power withdrawals. The subbasins with the largest decreases in total surface-water withdrawals from 2010 to 2015 were the Guntersville Lake (06030002; -693 MGD), the Pickwick Lake (06030005; -339 MGD), the Mobile-Tensaw (03160204; -293 MGD), the Mulberry Fork (03160109; -257 MGD) and the Lower Coosa (03150107; -203 MGD) subbasins, primarily due to decreased thermoelectric-power withdrawals.

Total groundwater withdrawals increased 2 percent from 487 MGD in 2010 to 496 MGD in 2015. The counties with the largest increases in total groundwater withdrawals from 2010 to 2015 were Baldwin (11 MGD), Lowndes (5 MGD), and Montgomery (4 MGD) Counties. The subbasins with the largest increase in total groundwater withdrawals from 2010 to 2015 were the Lower Black Warrior (03160113; 14 MGD), the Upper Alabama (03150201; 10 MGD), and the Middle Alabama (03150203; 6 MGD) subbasins. Some of these increases were due to the addition of the mining, aquaculture, and self-supplied residential sectors to the subbasin analysis for 2015. The counties with the largest decreases in total groundwater withdrawals from 2010 to 2015 were St. Clair (-6 MGD), Mobile (-3 MGD), and Coffee (-2 MGD) Counties. The subbasins with the largest decrease in total groundwater withdrawals were the Chipola (03130012; -1.4 MGD) and the Upper Conecuh (03140301; -1.1 MGD) subbasins.

Figure 46. Map of change in total withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

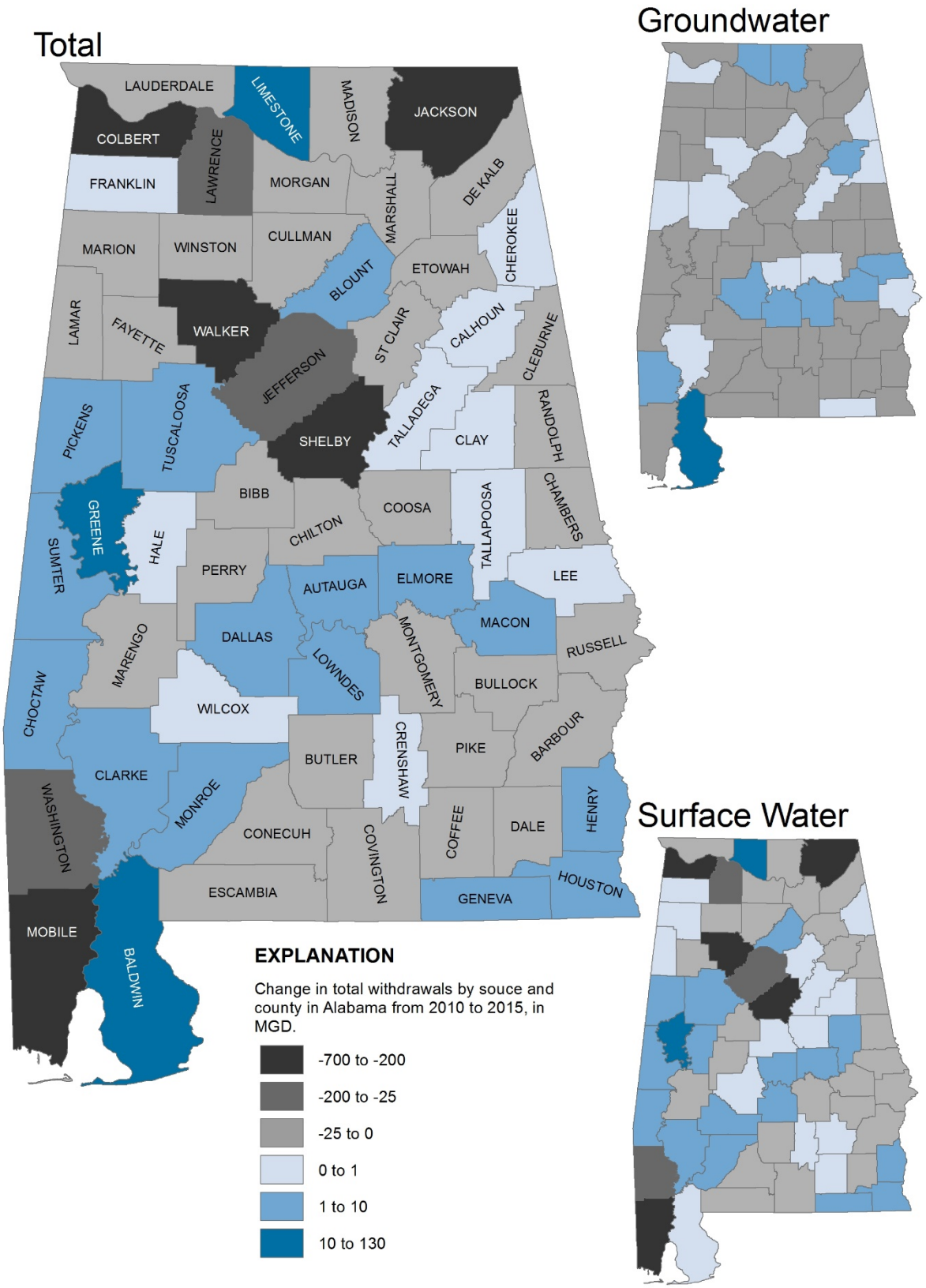


Figure 47. Map of change in total withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

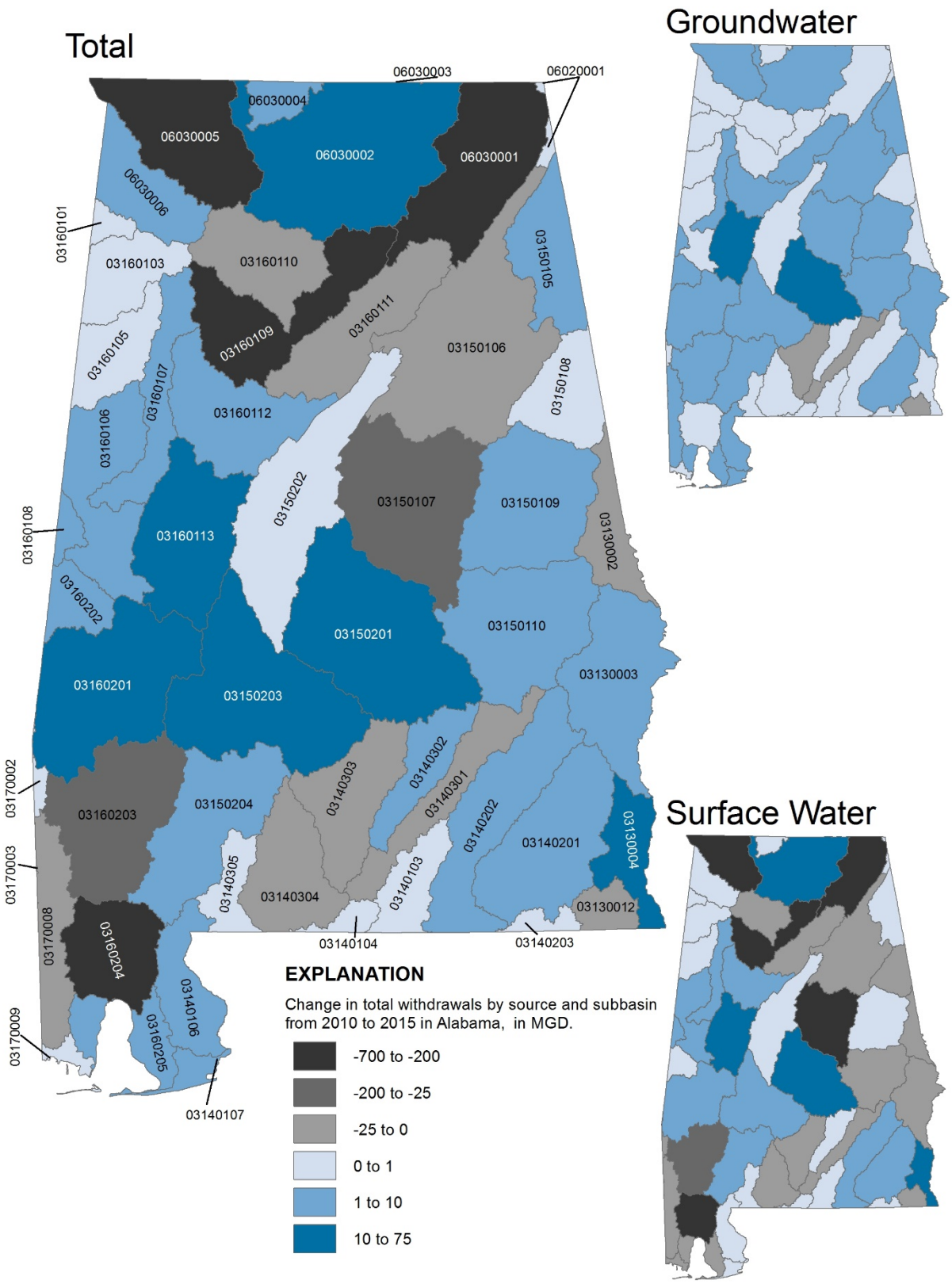


Table 58. Change in total withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	10.21	38.09	48.30	10.70	45.72	56.43	0.49	7.63	8.12
BALDWIN	62.37	10.79	73.16	73.52	11.36	84.88	11.15	0.57	11.72
BARBOUR	6.81	4.72	11.53	6.07	2.98	9.04	-0.74	-1.74	-2.49
BIBB	5.54	1.62	7.16	5.42	0.20	5.61	-0.12	-1.43	-1.55
BLOUNT	4.17	53.29	57.46	4.46	55.44	59.90	0.29	2.14	2.44
BULLOCK	4.20	1.96	6.16	3.16	1.23	4.39	-1.04	-0.74	-1.77
BUTLER	3.77	1.78	5.55	2.89	1.18	4.07	-0.88	-0.60	-1.48
CALHOUN	22.51	7.71	30.22	24.33	6.27	30.60	1.82	-1.44	0.38
CHAMBERS	1.00	4.55	5.55	0.63	4.49	5.12	-0.37	-0.06	-0.43
CHEROKEE	3.18	3.52	6.70	3.60	3.84	7.43	0.42	0.31	0.73
CHILTON	4.75	2.09	6.84	3.96	2.14	6.09	-0.79	0.04	-0.75
CHOCTAW	2.14	40.97	43.11	1.65	46.80	48.45	-0.49	5.83	5.34
CLARKE	2.96	21.33	24.29	3.85	22.62	26.47	0.89	1.28	2.18
CLAY	0.61	1.92	2.53	0.49	2.11	2.60	-0.12	0.19	0.07
CLEBURNE	0.91	1.11	2.02	1.09	0.81	1.90	0.18	-0.30	-0.12
COFFEE	11.80	2.84	14.64	9.91	3.65	13.56	-1.89	0.81	-1.08
COLBERT	1.80	1,342.71	1,344.51	1.90	1,003.23	1,005.13	0.10	-339.48	-339.38
CONECUH	2.20	0.30	2.50	1.64	0.25	1.89	-0.56	-0.06	-0.61
COOSA	0.85	0.09	0.94	0.62	0.12	0.74	-0.23	0.03	-0.20
COVINGTON	7.19	3.67	10.86	6.60	3.67	10.26	-0.59	0.00	-0.59
CRENSHAW	2.53	0.68	3.21	2.39	1.00	3.39	-0.14	0.32	0.18
CULLMAN	2.77	34.18	36.95	2.33	26.83	29.16	-0.44	-7.35	-7.79
DALE	8.07	2.32	10.39	7.13	2.02	9.14	-0.94	-0.30	-1.24
DALLAS	12.55	37.08	49.63	15.89	37.47	53.36	3.34	0.40	3.74
DEKALB	4.40	9.11	13.51	3.73	8.85	12.58	-0.67	-0.26	-0.94
ELMORE	5.04	11.50	16.54	5.67	12.99	18.66	0.63	1.49	2.12
ESCAMBIA	9.33	34.41	43.74	9.20	33.39	42.59	-0.13	-1.02	-1.15
ETOWAH	5.54	142.33	147.87	4.81	127.91	132.73	-0.73	-14.42	-15.15
FAYETTE	0.66	3.52	4.18	0.62	2.42	3.05	-0.04	-1.10	-1.14
FRANKLIN	2.22	5.77	7.99	2.05	6.25	8.29	-0.17	0.47	0.30
GENEVA	4.68	2.14	6.82	5.47	3.41	8.89	0.79	1.28	2.07
GREENE	7.50	359.01	366.51	6.16	382.71	388.87	-1.34	23.70	22.36
HALE	13.99	6.35	20.34	13.43	7.66	21.09	-0.56	1.30	0.75
HENRY	3.72	3.34	7.06	3.70	4.62	8.32	-0.02	1.28	1.25

Table 58. Change in total withdrawals by source and county in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	26.45	93.07	119.52	25.64	101.65	127.29	-0.81	8.59	7.78
JACKSON	2.04	1,065.38	1,067.42	1.93	374.01	375.94	-0.11	-691.37	-691.48
JEFFERSON	10.42	74.94	85.36	9.87	47.43	57.30	-0.55	-27.51	-28.06
LAMAR	2.04	0.22	2.26	1.86	0.30	2.16	-0.18	0.08	-0.10
LAUDERDALE	3.82	12.76	16.58	3.77	12.05	15.82	-0.05	-0.71	-0.76
LAWRENCE	0.93	70.64	71.57	0.76	10.76	11.52	-0.17	-59.88	-60.05
LEE	2.27	17.28	19.55	3.91	15.97	19.88	1.64	-1.31	0.33
LIMESTONE	5.01	2,738.34	2,743.35	7.54	2,865.39	2,872.94	2.53	127.06	129.59
LOWNDES	1.73	4.70	6.43	6.31	6.89	13.21	4.58	2.19	6.78
MACON	3.55	6.46	10.01	5.01	6.07	11.08	1.46	-0.39	1.07
MADISON	33.56	44.53	78.09	34.86	43.08	77.95	1.30	-1.45	-0.15
MARENGO	4.95	20.26	25.21	4.29	19.79	24.08	-0.66	-0.47	-1.13
MARION	1.83	5.70	7.53	1.60	5.71	7.32	-0.23	0.01	-0.22
MARSHALL	6.29	24.76	31.05	5.17	22.31	27.48	-1.12	-2.45	-3.57
MOBILE	34.46	1,062.98	1,097.44	31.68	752.37	784.05	-2.78	-310.62	-313.40
MONROE	4.14	46.69	50.83	3.50	49.63	53.13	-0.64	2.94	2.30
MONTGOMERY	17.37	22.18	39.55	20.90	18.02	38.93	3.53	-4.15	-0.62
MORGAN	1.00	119.34	120.34	0.81	117.91	118.72	-0.19	-1.43	-1.62
PERRY	6.72	4.13	10.85	5.37	2.05	7.42	-1.35	-2.08	-3.43
PICKENS	3.94	1.60	5.54	4.20	2.93	7.13	0.26	1.33	1.58
PIKE	6.01	1.38	7.39	5.56	1.39	6.94	-0.45	0.01	-0.44
RANDOLPH	1.06	1.85	2.91	0.88	1.64	2.53	-0.18	-0.21	-0.38
RUSSELL	3.06	41.69	44.75	3.93	40.58	44.51	0.87	-1.11	-0.24
SHELBY	15.10	670.26	685.36	13.14	466.22	479.36	-1.96	-204.04	-206.00
STCLAIR	13.07	13.63	26.70	7.41	13.92	21.33	-5.66	0.30	-5.36
SUMTER	4.57	4.27	8.84	4.26	6.09	10.35	-0.31	1.81	1.51
TALLADEGA	11.66	37.44	49.10	11.84	37.51	49.35	0.18	0.07	0.25
TALLAPOOSA	0.64	11.69	12.33	0.49	12.83	13.32	-0.15	1.14	0.99
TUSCALOOSA	4.26	34.68	38.94	4.59	37.04	41.63	0.33	2.36	2.70
WALKER	1.07	958.78	959.85	1.16	708.96	710.12	0.09	-249.83	-249.73
WASHINGTON	9.11	80.53	89.64	12.50	43.61	56.11	3.39	-36.92	-33.53
WILCOX	1.75	20.69	22.44	1.18	22.11	23.30	-0.57	1.42	0.86
WINSTON	0.94	1.31	2.25	0.61	1.14	1.74	-0.33	-0.18	-0.51
Total	**486.79**	**9,510.99**	**9,997.78**	**495.64**	**7,743.00**	**8,238.63**	**8.85**	**-1,767.99**	**-1,759.14**

Table 59. Change in total withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
Apalachicola									
03130002	0.24	12.87	13.11	0.65	8.52	9.17	0.41	-4.35	-3.95
03130003	7.16	43.77	50.93	8.54	43.14	51.68	1.38	-0.63	0.75
03130004	14.27	92.29	106.56	14.39	102.49	116.87	0.12	10.19	10.31
03130012	6.14	1.39	7.53	4.73	0.85	5.58	-1.41	-0.54	-1.95
Subtotal	*27.81*	*150.33*	*178.14*	*28.31*	*154.99*	*183.30*	*0.50*	*4.66*	*5.16*
Chocawhatchee-Escambia									
03140103	2.05	0.92	2.97	2.35	1.10	3.44	0.30	0.17	0.47
03140104	0.24	0.14	0.38	0.44	0.14	0.58	0.20	0.00	0.20
03140106	16.12	2.23	18.35	20.38	2.52	22.90	4.26	0.30	4.55
03140107	9.31	1.50	10.81	12.30	1.89	14.20	2.99	0.39	3.39
03140201	25.66	6.86	32.52	26.45	7.29	33.74	0.79	0.43	1.22
03140202	9.93	3.98	13.91	10.15	4.31	14.46	0.22	0.34	0.55
03140203	1.02	0.47	1.49	1.28	0.66	1.94	0.26	0.19	0.45
03140301	8.36	3.53	11.89	7.26	2.74	10.00	-1.10	-0.79	-1.89
03140302	1.88	0.67	2.55	2.51	0.67	3.18	0.63	0.00	0.63
03140303	3.59	1.81	5.40	3.21	1.34	4.55	-0.38	-0.47	-0.85
03140304	5.92	34.24	40.16	6.37	33.15	39.52	0.45	-1.09	-0.64
03140305	2.59	0.25	2.84	2.92	0.24	3.16	0.33	-0.01	0.32
Subtotal	*86.67*	*56.60*	*143.27*	*95.62*	*56.05*	*151.67*	*8.95*	*-0.55*	*8.40*
Alabama									
03150105	2.93	5.56	8.49	3.91	5.13	9.04	0.98	-0.43	0.55
03150106	41.53	202.19	243.72	42.03	185.26	227.29	0.50	-16.93	-16.43
03150107	7.66	679.52	687.18	10.28	476.74	487.01	2.62	-202.78	-200.17
03150108	0.74	1.68	2.42	0.97	0.98	1.95	0.23	-0.70	-0.47
03150109	0.52	18.28	18.80	1.30	18.74	20.03	0.78	0.46	1.23
03150110	6.13	37.79	43.92	11.51	35.83	47.34	5.38	-1.96	3.42
03150201	38.57	76.09	114.66	48.86	85.96	134.82	10.29	9.87	20.16
03150202	28.48	58.56	87.04	28.80	58.29	87.09	0.32	-0.26	0.05
03150203	3.60	21.31	24.91	9.89	28.02	37.92	6.29	6.71	13.01
03150204	5.76	47.07	52.83	8.75	50.31	59.07	2.99	3.24	6.24
Subtotal	*135.92*	*1,148.05*	*1,283.97*	*166.30*	*945.27*	*1,111.57*	*30.38*	*-202.78*	*-172.40*
Mobile-Tombigbee									
03160101	0.06	0.10	0.16	0.12	0.07	0.19	0.06	-0.03	0.03

Table 59. Change in total withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
03160103	0.82	2.27	3.09	1.10	2.21	3.31	0.28	-0.06	0.22
03160105	1.80	2.23	4.03	2.02	2.15	4.17	0.22	-0.08	0.13
03160106	5.05	1.03	6.08	5.52	3.01	8.53	0.47	1.98	2.45
03160107	1.01	0.83	1.84	2.43	2.12	4.55	1.42	1.29	2.71
03160108	0.05	0.04	0.09	3.11	2.95	6.06	3.06	2.91	5.97
03160109	2.53	974.48	977.01	2.32	717.09	719.41	-0.21	-257.39	-257.60
03160110	0.93	20.91	21.84	0.69	13.07	13.75	-0.24	-7.84	-8.09
03160111	3.81	65.71	69.52	5.56	37.55	43.10	1.75	-28.16	-26.42
03160112	1.53	35.88	37.41	2.62	50.92	53.54	1.09	15.05	16.14
03160113	5.42	357.23	362.65	19.89	389.21	409.10	14.47	31.98	46.45
03160201	4.27	60.99	65.26	5.56	69.57	75.13	1.29	8.58	9.86
03160202	0.19	1.34	1.53	1.52	1.79	3.30	1.33	0.45	1.77
03160203	11.56	103.50	115.06	13.76	65.93	79.70	2.20	-37.56	-35.36
03160204	26.29	992.87	1,019.16	26.67	699.89	726.56	0.38	-292.97	-292.60
03160205	26.78	5.24	32.02	31.00	4.70	35.70	4.22	-0.54	3.68
Subtotal	*92.10*	*2,624.66*	*2,716.76*	*123.87*	*2,062.24*	*2,186.12*	*31.77*	*-562.42*	*-530.65*
Pascagoula									
03170002	0.01	0.01	0.02	0.15	0.00	0.15	0.14	-0.01	0.13
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	7.70	70.93	78.63	8.86	53.47	62.34	1.16	-17.45	-16.29
03170009	2.58	0.39	2.97	3.43	0.23	3.66	0.85	-0.16	0.70
Subtotal	*10.29*	*71.33*	*81.62*	*12.45*	*53.71*	*66.15*	*2.16*	*-17.62*	*-15.46*
Middle Tennessee-Hiwassee									
06020001	0.32	0.15	0.47	0.42	0.09	0.51	0.10	-0.06	0.04
Subtotal	*0.32*	*0.15*	*0.47*	*0.42*	*0.09*	*0.51*	*0.10*	*-0.06*	*0.04*
Middle Tennessee-Elk									
06030001	7.16	1,090.00	1,097.16	6.49	396.54	403.03	-0.67	-693.45	-694.13
06030002	38.02	2,959.08	2,997.10	43.10	3,023.15	3,066.25	5.08	64.07	69.15
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.58	9.68	10.26	1.23	9.91	11.15	0.65	0.23	0.88
06030005	3.31	1,357.75	1,361.06	4.25	1,017.64	1,021.89	0.94	-340.10	-339.17
06030006	1.61	8.60	10.21	2.05	8.74	10.79	0.44	0.14	0.59
Subtotal	*50.68*	*5,425.11*	*5,475.79*	*57.13*	*4,455.99*	*4,513.12*	*6.44*	*-969.12*	*-962.67*
Total	**403.79**	**9,476.22**	**9,880.02**	**484.10**	**7,728.33**	**8,212.43**	**80.30**	**-1,747.89**	**-1,667.59**

Public Supply Water Withdrawals

The geographic distribution of the comparison of public-supply withdrawals from 2010 to 2015 is shown in tables 60 and 61. Public-supply withdrawals decreased 9 percent from 2010 to 2015 from 833 MGD in 2010 to 762 MGD in 2015. The counties with the largest increases in total public-supply withdrawals from 2010 to 2015 were Walker (8 MGD), Blount (2 MGD) and Houston (2 MGD) Counties. The counties with the largest decreases in total public-supply withdrawals from 2010 to 2015 were Jefferson (-27 MGD), Mobile (-20 MGD), Morgan (-8 MGD), and Cullman (-8 MGD) Counties (figure 48). The subbasins with the largest increases in total public-supply withdrawals from 2010 to 2015 were the Upper Black Warrior (03160112; 3 MGD), the Lower Black Warrior (03160113; 2 MGD), and the Lower Coosa (03150107; 1 MGD) subbasins. The subbasins with the largest decreases in total public-supply withdrawals from 2010 to 2015 were the Escatawpa (03170008; -18 MGD), the Locust Fork (03160111; -16 MGD), the Wheeler Lake (06030002; -7 MGD), and the Sipsey Fork (03160110; -7 MGD) subbasins (figure 49).

Public-supply surface-water withdrawals decreased 11 percent from 552 MGD in 2010 to 490 MGD in 2015. The counties with the largest increases in public-supply surface-water withdrawals from 2010 to 2015 were Walker (8 MGD), Tuscaloosa (2 MGD) and St. Clair (2 MGD) Counties. The counties with the largest decreases in public-supply surface-water withdrawals from 2010 to 2015 were Jefferson (-26 MGD), Mobile (-18 MGD), Morgan (-8 MGD), and Cullman (-8 MGD) Counties. The subbasins with the largest increases in public-supply surface-water withdrawals from 2010 to 2015 were the Locust Fork (03160111; 2 MGD) and the Lower Coosa (03150107; 1 MGD) subbasins. The subbasins with the largest decreases in public-supply surface-water withdrawals from 2010 to 2015 were the Escatawpa (03170008; -18 MGD) the Locust Fork (03160111; -16 MGD), the Guntersville Lake (06030002; -9 MGD) and the Sipsey Fork (03160110; -7 MGD) subbasins.

Public-supply groundwater withdrawals decreased 3 percent from 280 MGD in 2010 to 272 MGD in 2015. The counties with the largest increases in public-supply groundwater withdrawals from 2010 to 2015 were Houston (2 MGD), Lee (2 MGD), and Calhoun (2 MGD) Counties. The counties with the largest decrease in public-supply groundwater withdrawals from 2010 to 2015 were St. Clair (-3 MGD), Mobile (-2 MGD), and Autauga (-1 MGD) Counties. The subbasins with the largest increases in public-supply groundwater withdrawals from 2010 to 2015 were the Upper Tallapoosa (03150108; 2 MGD), the Wheeler Lake (06030002; 2 MGD) and the Lower Black Warrior (03160113; 2 MGD) subbasins. The subbasins with the largest decrease in public-supply groundwater withdrawals from 2010 to 2015 were the Upper Alabama (03150201; -4 MGD) and the Cahaba (03150202; -3 MGD) subbasins.

Figure 48. Map of change in public-supply withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

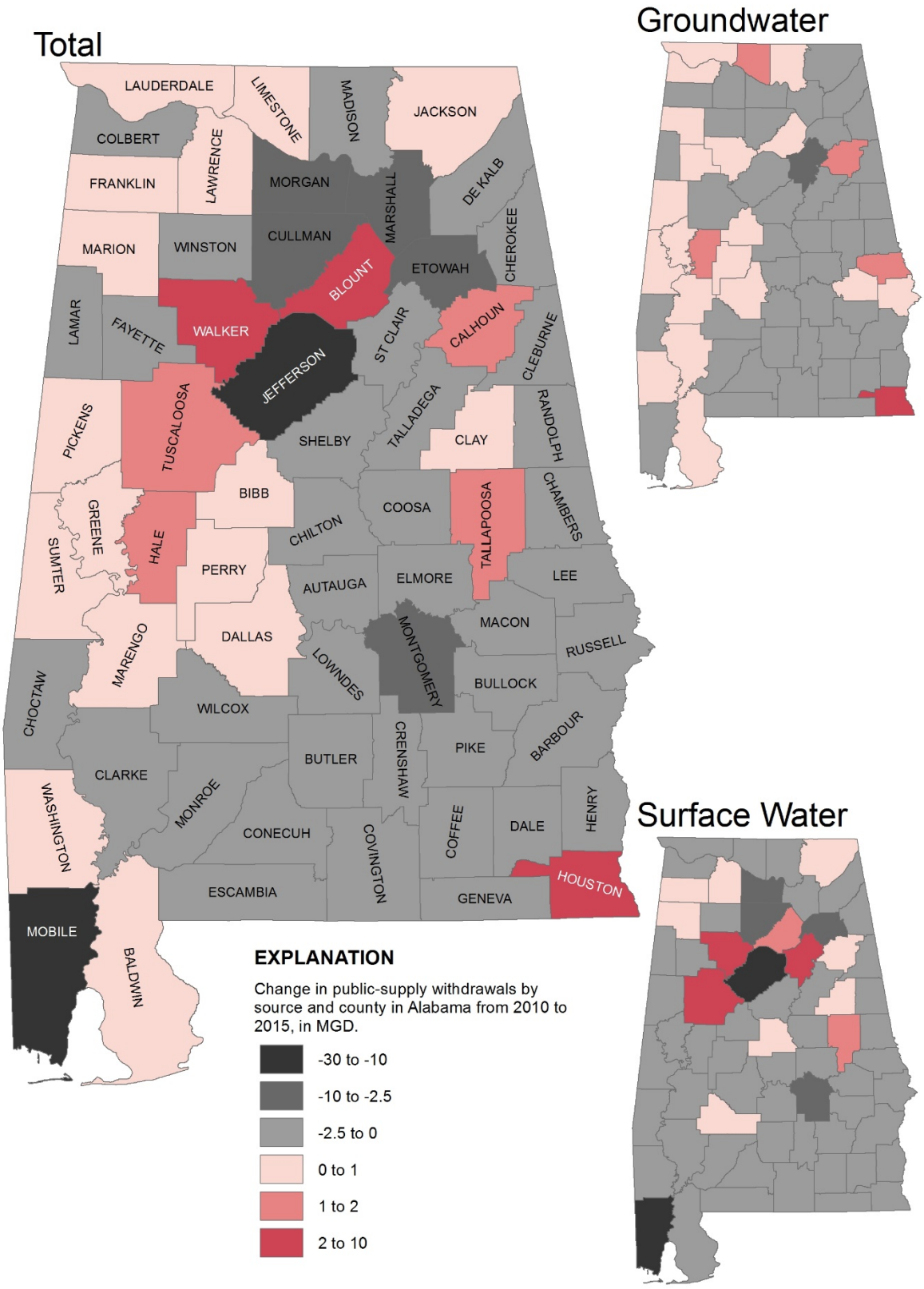


Figure 49. Map of change in public-supply withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

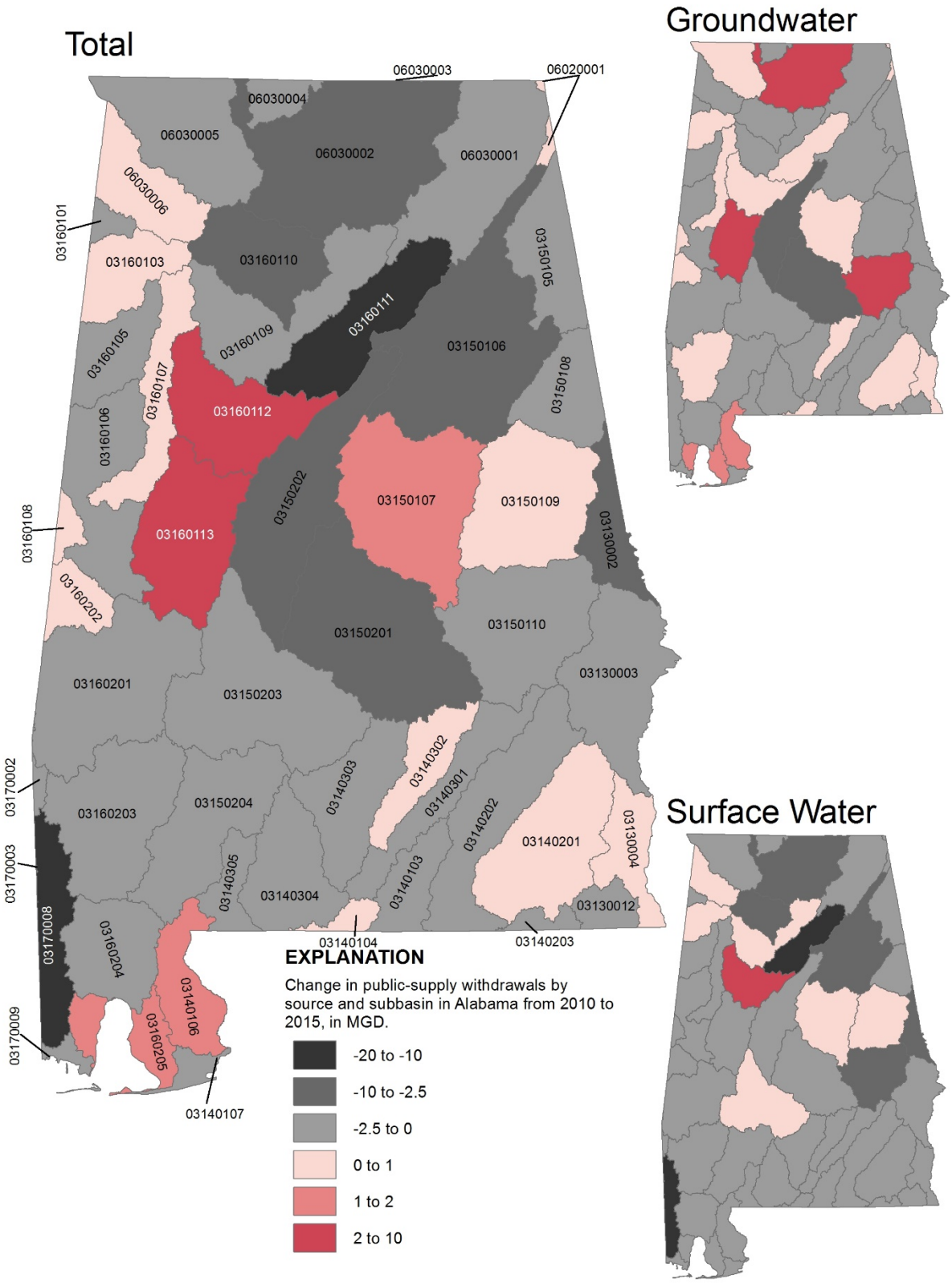


Table 60. Change in public-supply withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	5.08	0.00	5.08	3.65	0.00	3.65	-1.43	0.00	-1.43
BALDWIN	22.97	0.00	22.97	23.70	0.00	23.70	0.73	0.00	0.73
BARBOUR	4.15	0.00	4.15	3.23	0.00	3.23	-0.92	0.00	-0.92
BIBB	4.90	0.00	4.90	5.18	0.00	5.18	0.28	0.00	0.28
BLOUNT	2.44	52.16	54.60	2.78	54.09	56.87	0.34	1.93	2.27
BULLOCK	2.31	0.00	2.31	2.11	0.00	2.11	-0.20	0.00	-0.20
BUTLER	2.70	0.00	2.70	2.28	0.00	2.28	-0.42	0.00	-0.42
CALHOUN	20.84	2.46	23.30	22.47	2.78	25.25	1.63	0.32	1.95
CHAMBERS	0.00	4.31	4.31	0.00	4.20	4.20	0.00	-0.11	-0.11
CHEROKEE	2.54	0.96	3.50	2.43	0.77	3.21	-0.11	-0.19	-0.29
CHILTON	3.05	1.83	4.88	2.51	1.89	4.40	-0.54	0.06	-0.48
CHOCTAW	1.36	0.00	1.36	1.21	0.00	1.21	-0.15	0.00	-0.15
CLARKE	2.14	0.90	3.04	2.50	0.08	2.58	0.36	-0.82	-0.46
CLAY	0.00	1.66	1.66	0.00	1.78	1.78	0.00	0.12	0.12
CLEBURNE	0.00	0.56	0.56	0.00	0.49	0.49	0.00	-0.07	-0.07
COFFEE	7.61	0.00	7.61	6.35	0.00	6.35	-1.26	0.00	-1.26
COLBERT	0.57	8.22	8.79	0.60	7.67	8.27	0.03	-0.55	-0.52
CONECUH	1.69	0.00	1.69	1.32	0.00	1.32	-0.37	0.00	-0.37
COOSA	0.30	0.00	0.30	0.27	0.00	0.27	-0.03	0.00	-0.03
COVINGTON	4.96	0.00	4.96	4.09	0.00	4.09	-0.87	0.00	-0.87
CRENSHAW	2.06	0.00	2.06	1.94	0.00	1.94	-0.12	0.00	-0.12
CULLMAN	0.48	30.57	31.05	0.31	22.98	23.29	-0.17	-7.60	-7.76
DALE	6.85	0.00	6.85	5.90	0.00	5.90	-0.95	0.00	-0.95
DALLAS	5.88	0.00	5.88	5.91	0.00	5.91	0.03	0.00	0.03
DEKALB	0.81	6.30	7.11	0.33	5.59	5.92	-0.48	-0.71	-1.19
ELMORE	3.72	9.65	13.37	2.68	9.51	12.20	-1.04	-0.14	-1.17
ESCAMBIA	5.65	0.00	5.65	5.01	0.00	5.01	-0.64	0.00	-0.64
ETOWAH	4.67	15.68	20.35	4.12	12.73	16.85	-0.55	-2.95	-3.50
FAYETTE	0.05	1.99	2.04	0.05	1.65	1.70	0.00	-0.34	-0.34
FRANKLIN	1.08	4.68	5.76	1.05	4.89	5.94	-0.03	0.21	0.18
GENEVA	1.98	0.00	1.98	1.77	0.00	1.77	-0.21	0.00	-0.21
GREENE	1.10	0.00	1.10	1.39	0.00	1.39	0.29	0.00	0.29
HALE	1.71	0.00	1.71	3.10	0.00	3.10	1.39	0.00	1.39
HENRY	1.80	0.00	1.80	1.66	0.00	1.66	-0.14	0.00	-0.14

Table 60. Change in public-supply withdrawals by source and county in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	16.77	0.00	16.77	18.96	0.00	18.96	2.19	0.00	2.19
JACKSON	0.67	10.70	11.37	0.51	11.31	11.81	-0.16	0.61	0.44
JEFFERSON	8.44	67.42	75.86	7.88	41.09	48.97	-0.56	-26.33	-26.89
LAMAR	1.60	0.00	1.60	1.42	0.00	1.42	-0.18	0.00	-0.18
LAUDERDALE	1.15	10.91	12.06	1.85	10.54	12.39	0.70	-0.37	0.33
LAWRENCE	0.00	7.68	7.68	0.00	7.73	7.73	0.00	0.05	0.05
LEE	1.10	14.87	15.97	2.84	13.00	15.84	1.74	-1.87	-0.13
LIMESTONE	2.71	8.12	10.83	3.86	7.67	11.53	1.15	-0.45	0.70
LOWNDES	1.13	0.00	1.13	0.95	0.00	0.95	-0.18	0.00	-0.18
MACON	0.97	3.12	4.09	1.37	1.95	3.32	0.40	-1.17	-0.77
MADISON	28.64	39.77	68.41	29.01	38.20	67.20	0.37	-1.57	-1.21
MARENGO	2.50	0.00	2.50	2.77	0.00	2.77	0.27	0.00	0.27
MARION	0.70	5.26	5.96	0.76	5.30	6.06	0.06	0.04	0.10
MARSHALL	4.35	22.28	26.63	3.31	20.45	23.76	-1.04	-1.83	-2.87
MOBILE	15.72	70.25	85.97	13.49	52.64	66.13	-2.23	-17.61	-19.84
MONROE	2.65	0.00	2.65	2.30	0.00	2.30	-0.35	0.00	-0.35
MONTGOMERY	13.87	19.47	33.34	13.19	14.85	28.04	-0.68	-4.62	-5.30
MORGAN	0.00	33.38	33.38	0.00	25.61	25.61	0.00	-7.77	-7.77
PERRY	1.70	0.00	1.70	2.02	0.00	2.02	0.32	0.00	0.32
PICKENS	2.70	0.00	2.70	3.01	0.00	3.01	0.31	0.00	0.31
PIKE	5.01	0.00	5.01	4.58	0.00	4.58	-0.43	0.00	-0.43
RANDOLPH	0.00	1.51	1.51	0.00	1.22	1.22	0.00	-0.29	-0.29
RUSSELL	1.48	7.32	8.80	1.59	6.87	8.46	0.11	-0.45	-0.34
SHELBY	13.26	2.63	15.89	11.92	2.30	14.22	-1.34	-0.33	-1.67
STCLAIR	9.62	0.31	9.93	6.35	2.58	8.93	-3.27	2.27	-1.00
SUMTER	1.90	0.00	1.90	2.06	0.00	2.06	0.16	0.00	0.16
TALLADEGA	9.52	8.02	17.54	9.39	6.61	16.00	-0.13	-1.41	-1.54
TALLAPOOSA	0.00	10.38	10.38	0.00	11.88	11.88	0.00	1.50	1.50
TUSCALOOSA	1.47	28.45	29.92	0.69	30.75	31.45	-0.78	2.30	1.53
WALKER	0.16	35.59	35.75	0.46	43.38	43.84	0.30	7.79	8.09
WASHINGTON	2.07	0.00	2.07	2.80	0.00	2.80	0.73	0.00	0.73
WILCOX	1.12	1.82	2.94	0.84	1.96	2.80	-0.28	0.14	-0.14
WINSTON	0.00	0.97	0.97	0.00	0.81	0.81	0.00	-0.16	-0.16
Total	**280.43**	**552.16**	**832.59**	**272.07**	**489.80**	**761.87**	**-8.36**	**-62.36**	**-70.72**

Table 61. Change in public-supply withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
Apalachicola									
03130002	0.00	12.39	12.39	0.00	7.98	7.98	0.00	-4.41	-4.41
03130003	3.76	7.32	11.08	3.46	6.87	10.33	-0.30	-0.45	-0.75
03130004	9.88	0.00	9.88	10.35	0.00	10.35	0.47	0.00	0.47
03130012	2.61	0.00	2.61	1.91	0.00	1.91	-0.70	0.00	-0.70
Subtotal	*16.25*	*19.71*	*35.96*	*15.72*	*14.85*	*30.57*	*-0.53*	*-4.86*	*-5.39*
Chocawhatchee-Escambia									
03140103	1.43	0.00	1.43	1.27	0.00	1.27	-0.16	0.00	-0.16
03140104	0.07	0.00	0.07	0.08	0.00	0.08	0.01	0.00	0.01
03140106	3.94	0.00	3.94	5.06	0.00	5.06	1.12	0.00	1.12
03140107	6.16	0.00	6.16	5.62	0.00	5.62	-0.54	0.00	-0.54
03140201	20.93	0.00	20.93	20.98	0.00	20.98	0.05	0.00	0.05
03140202	6.66	0.00	6.66	5.83	0.00	5.83	-0.83	0.00	-0.83
03140203	0.58	0.00	0.58	0.47	0.00	0.47	-0.11	0.00	-0.11
03140301	7.35	0.00	7.35	6.12	0.00	6.12	-1.23	0.00	-1.23
03140302	1.37	0.00	1.37	1.60	0.00	1.60	0.23	0.00	0.23
03140303	2.95	0.00	2.95	2.46	0.00	2.46	-0.49	0.00	-0.49
03140304	3.78	0.00	3.78	3.30	0.00	3.30	-0.48	0.00	-0.48
03140305	2.26	0.00	2.26	2.19	0.00	2.19	-0.07	0.00	-0.07
Subtotal	*57.48*	*0.00*	*57.48*	*54.97*	*0.00*	*54.97*	*-2.51*	*0.00*	*-2.51*
Alabama									
03150105	2.54	1.96	4.50	2.43	1.65	4.08	-0.11	-0.31	-0.42
03150106	38.56	30.89	69.45	36.18	27.70	63.88	-2.38	-3.19	-5.57
03150107	6.31	9.66	15.97	6.97	10.43	17.39	0.66	0.77	1.42
03150108	0.00	1.02	1.02	0.00	0.88	0.88	0.00	-0.14	-0.14
03150109	0.00	17.10	17.10	0.00	17.51	17.51	0.00	0.41	0.41
03150110	2.78	30.70	33.48	4.87	27.22	32.09	2.09	-3.48	-1.39
03150201	31.34	0.00	31.34	26.97	0.00	26.97	-4.37	0.00	-4.37
03150202	27.51	52.39	79.90	24.71	51.07	75.77	-2.80	-1.32	-4.13
03150203	2.89	0.00	2.89	2.48	1.96	4.44	-0.41	1.96	1.55
03150204	2.41	0.00	2.41	2.06	0.00	2.06	-0.35	0.00	-0.35
Subtotal	*114.34*	*143.72*	*258.06*	*106.66*	*138.42*	*245.08*	*-7.68*	*-5.30*	*-12.98*
Mobile-Tombigbee									
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 61. Change in public-supply withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
03160103	0.59	1.96	2.55	0.59	2.03	2.62	0.00	0.07	0.07
03160105	1.59	1.90	3.49	1.50	1.66	3.16	-0.09	-0.24	-0.33
03160106	4.56	0.00	4.56	4.30	0.00	4.30	-0.26	0.00	-0.26
03160107	0.67	0.00	0.67	0.95	0.00	0.95	0.28	0.00	0.28
03160108	0.00	0.00	0.00	0.26	0.00	0.26	0.26	0.00	0.26
03160109	0.77	48.91	49.68	0.41	49.09	49.50	-0.36	0.18	-0.18
03160110	0.00	19.33	19.33	0.00	12.09	12.09	0.00	-7.24	-7.24
03160111	2.67	62.88	65.55	3.13	34.84	37.97	0.46	-28.04	-27.58
03160112	0.61	32.18	32.79	0.70	46.42	47.13	0.09	14.24	14.34
03160113	4.17	0.00	4.17	5.71	0.00	5.71	1.54	0.00	1.54
03160201	3.74	0.00	3.74	3.28	0.00	3.28	-0.46	0.00	-0.46
03160202	0.06	0.00	0.06	0.67	0.00	0.67	0.61	0.00	0.61
03160203	4.11	2.72	6.83	4.15	0.08	4.23	0.04	-2.64	-2.60
03160204	9.78	0.00	9.78	8.22	0.00	8.22	-1.56	0.00	-1.56
03160205	13.31	0.00	13.31	14.35	0.00	14.35	1.04	0.00	1.04
Subtotal	*46.63*	*169.88*	*216.51*	*48.23*	*146.20*	*194.43*	*1.60*	*-23.68*	*-22.08*
Pascagoula									
03170002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	5.11	70.25	75.36	4.83	52.64	57.47	-0.28	-17.61	-17.89
03170009	1.18	0.00	1.18	1.16	0.00	1.16	-0.02	0.00	-0.02
Subtotal	*6.29*	*70.25*	*76.54*	*5.99*	*52.64*	*58.63*	*-0.30*	*-17.61*	*-17.91*
Middle Tennessee-Hiwassee									
06020001	0.23	0.00	0.23	0.30	0.00	0.30	0.07	0.00	0.07
Subtotal	0.23	*0.00*	*0.23*	*0.30*	*0.00*	*0.30*	*0.07*	*0.00*	*0.07*
Middle Tennessee-Elk									
06030001	5.06	32.98	38.04	3.84	32.53	36.37	-1.22	-0.45	-1.67
06030002	31.93	78.62	110.55	33.50	69.63	103.13	1.57	-8.99	-7.42
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.00	8.12	8.12	0.00	7.67	7.67	0.00	-0.45	-0.45
06030005	1.14	21.34	22.48	1.81	20.11	21.92	0.67	-1.23	-0.56
06030006	1.08	7.54	8.62	1.05	7.74	8.79	-0.03	0.20	0.17
Subtotal	*39.21*	*148.60*	*187.81*	*40.20*	*137.68*	*177.88*	*0.99*	*-10.92*	*-9.93*
Total	**280.43**	**552.16**	**832.59**	**272.07**	**489.80**	**761.87**	**-8.36**	**-62.36**	**-70.72**

Self-supplied Residential Water Withdrawals

The geographic distribution of the comparison of self-supplied residential withdrawals from 2010 to 2015 is shown in table 62. Self-supplied residential water withdrawals decreased 3 percent from 2010 to 2015 from 38 MGD in 2010 to 37 MGD in 2015. All self-supplied residential water withdrawals were assumed to be from groundwater. The counties with the largest increases in self-supplied residential withdrawals from 2010 to 2015 were Talladega (0.5 MGD), Baldwin, (0.4 MGD) and Limestone (0.3 MGD) Counties. The counties with the largest decreases in self-supplied water withdrawals from 2010 to 2015 were Houston (-0.3 MGD), Chambers (-0.2 MGD), and Greene (-0.2 MGD) Counties (figure 50). There was not a subbasin analysis done for the self-supplied residential sector for 2010, therefore there is no comparison of subbasins from 2010 to 2015.

Figure 50. Map of change in self-supplied residential withdrawals by county in Alabama from 2010 to 2015, in MGD.

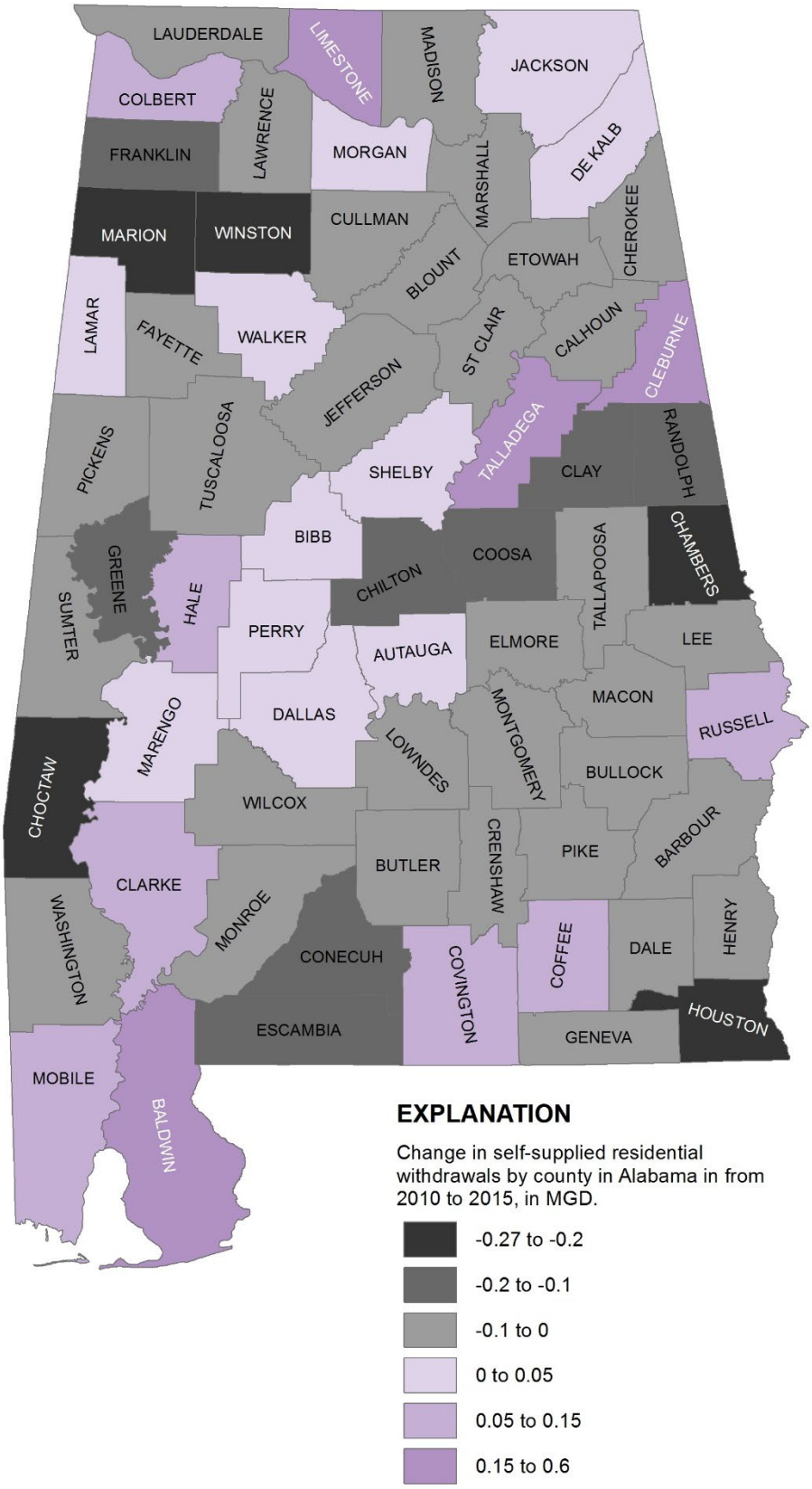


Table 62. Change in self-supplied residential withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2015 GW	Total Diff 2010 to 2015
AUTAUGA	0.37	0.38	0.01
BALDWIN	1.71	2.15	0.44
BARBOUR	0.15	0.12	-0.03
BIBB	0.15	0.16	0.01
BLOUNT	0.89	0.86	-0.03
BULLOCK	0.08	0.07	-0.01
BUTLER	0.28	0.27	-0.01
CALHOUN	0.51	0.44	-0.07
CHAMBERS	0.71	0.48	-0.24
CHEROKEE	0.52	0.49	-0.03
CHILTON	0.74	0.60	-0.14
CHOCTAW	0.62	0.41	-0.21
CLARKE	0.38	0.45	0.07
CLAY	0.48	0.32	-0.16
CLEBURNE	0.77	0.94	0.17
COFFEE	0.72	0.80	0.08
COLBERT	0.27	0.35	0.08
CONECUH	0.32	0.18	-0.14
COOSA	0.43	0.33	-0.10
COVINGTON	0.88	1.01	0.13
CRENSHAW	0.19	0.15	-0.04
CULLMAN	0.24	0.19	-0.05
DALE	0.69	0.68	-0.01
DALLAS	0.64	0.66	0.02
DEKALB	1.32	1.34	0.02
ELMORE	0.42	0.36	-0.06
ESCAMBIA	0.63	0.51	-0.12
ETOWAH	0.31	0.26	-0.05
FAYETTE	0.52	0.49	-0.03
FRANKLIN	0.51	0.37	-0.14
GENEVA	0.76	0.68	-0.08
GREENE	0.35	0.16	-0.19
HALE	0.2	0.33	0.13
HENRY	0.26	0.24	-0.02
HOUSTON	1.37	1.11	-0.26
JACKSON	0.82	0.86	0.04
JEFFERSON	0.46	0.39	-0.08
LAMAR	0.27	0.29	0.02
LAUDERDALE	1.19	1.17	-0.02
LAWRENCE	0.38	0.35	-0.03
LEE	0.77	0.72	-0.05
LIMESTONE	0.68	0.99	0.31
LOWNDES	0.06	0.05	-0.01
MACON	0.2	0.15	-0.05
MADISON	0.78	0.72	-0.06
MARENGO	0.52	0.53	0.01
MARION	0.76	0.54	-0.22
MARSHALL	0.48	0.43	-0.05
MOBILE	2.62	2.72	0.10
MONROE	0.47	0.38	-0.09
MONTGOMERY	0.34	0.30	-0.04
MORGAN	0.28	0.32	0.04
PERRY	0.3	0.33	0.03
PICKENS	0.42	0.37	-0.05
PIKE	0.33	0.33	0.00
RANDOLPH	0.72	0.58	-0.14
RUSSELL	0.23	0.30	0.07
SHELBY	0.41	0.44	0.03
STCLAIR	0.59	0.51	-0.08
SUMTER	0.09	0.07	-0.02
TALLADEGA	1.24	1.75	0.51
TALLAPOOSA	0.44	0.43	-0.02
TUSCALOOSA	0.82	0.75	-0.07
WALKER	0.44	0.45	0.01
WASHINGTON	0.56	0.52	-0.04
WILCOX	0.25	0.23	-0.03
WINSTON	0.66	0.43	-0.23
TOTAL	**37.97**	**36.69**	**-1.28**

Irrigation Water Withdrawals

The geographic distribution of the comparison of public-supply withdrawals from 2010 to 2015 is shown in tables 63 and 64. Irrigation withdrawals increased 11 percent from 2010 to 2015 from 202 MGD in 2010 to 223 MGD in 2015. The counties with the largest increases in total irrigation withdrawals from 2010 to 2015 are Baldwin (11 MGD), Limestone (4 MGD), Montgomery (3 MGD), and Geneva (2 MGD) Counties. The counties with the largest decreases in total irrigation withdrawals from 2010 to 2015 are Houston (-4 MGD), St. Clair (-3 MGD), Calhoun (-2 MGD) and Bullock (-2 MGD) Counties (figure 51). The subbasins with the largest increases in total irrigation withdrawals from 2010 to 2015 are the Wheeler Lake (06030002; 4 MGD), the Upper Alabama (03150201; 4 MGD) the Perdido Bay (03140107; 4 MGD) the Perdido (03140106; 3 MGD) and the Lower Alabama (03150204; 3 MGD) subbasins. The subbasins with the largest decreases in total irrigation withdrawals are the Middle Coosa (03150106; -7 MGD) and the Chipola (03130012; -2 MGD) subbasins (figure 52).

Surface-water irrigation withdrawals increased 6 percent from 117 MGD in 2010 to 124 MGD in 2015. The counties with the largest increases in surface-water irrigation withdrawals from 2010 to 2015 are Limestone (3 MGD) and Lowndes (2 MGD) counties. The counties with the largest decreases in surface-water irrigation withdrawals from 2010 to 2015 are St Clair (-3 MGD) and Calhoun (-2 MGD) Counties. The subbasins with the largest increases in surface-water irrigation withdrawals are the Wheeler Lake (06030002; 2 MGD) and the Middle Chattahoochee-W.F. George Reservoir (03130003; 1 MGD) subbasins. The subbasins with the largest decreases in surface-water irrigation withdrawals are the Middle Coosa (03150106; -7 MGD) and the Mobile Bay (03160205; -0.5 MGD) subbasins.

Groundwater irrigation withdrawals increased 17 percent from 84 MGD in 2010 to 99 MGD in 2015. The counties with the largest increases in groundwater irritation withdrawals from 2010 to 2015 are Baldwin (10 MGD) and Montgomery (3 MGD) Counties. The counties with the largest decreases in groundwater irrigation withdrawals from 2010 to 2015 are Houston (-3 MGD), Bullock (-1 MGD), and Lauderdale (-1 MGD) Counties. The subbasins with the largest increases in groundwater irrigation from 2010 to 2015 are the Perdido Bay (03140107; 3 MGD), the Upper Alabama (03150201; 3 MGD) the Perdido (03140106; 2 MGD), the Lower Alabama (03150204; 2 MGD) the Wheeler Lake (06030002; 2 MGD) and the Mobile Bay (03160205; 2 MGD) subbasins. The subbasins with the largest decreases in groundwater irrigation withdrawals are the Chipola (03130012; -1 MGD) the Lower Chattahoochee (03130004; -1 MGD), and the Pickwick Lake (06030005; -1 MGD) subbasins.

Total irrigated acreage from 2010 to 2015 increased about 12 percent from 169,240 acres in 2010 to 188,970 acres in 2015. Some of this increase may be attributed to limitations in the availability of the undisclosed NASS data and differences in methodology. The counties with the largest increases in total irrigation acreage from 2010 to 2015 are Limestone (7,710 acres), Geneva (5,420 acres), and Pickens (3,440 acres) Counties. The counties with the largest decreases in irrigated acreage are Baldwin (-3,350 acres), St. Clair (-2,660 acres) and Mobile (-1,500 acres) counties.

Figure 51. Map of change in irrigation withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

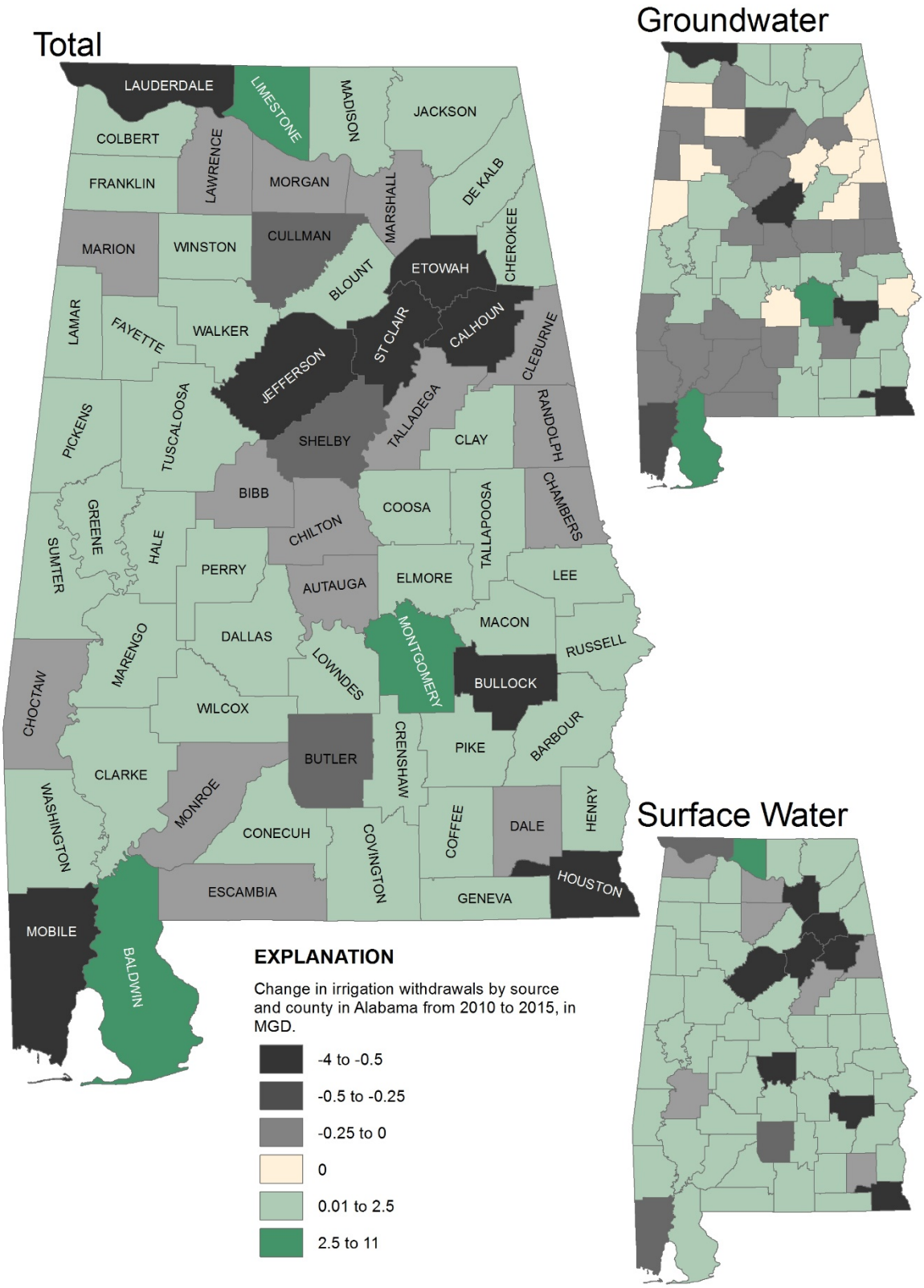


Figure 52. Map of change in irrigation withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

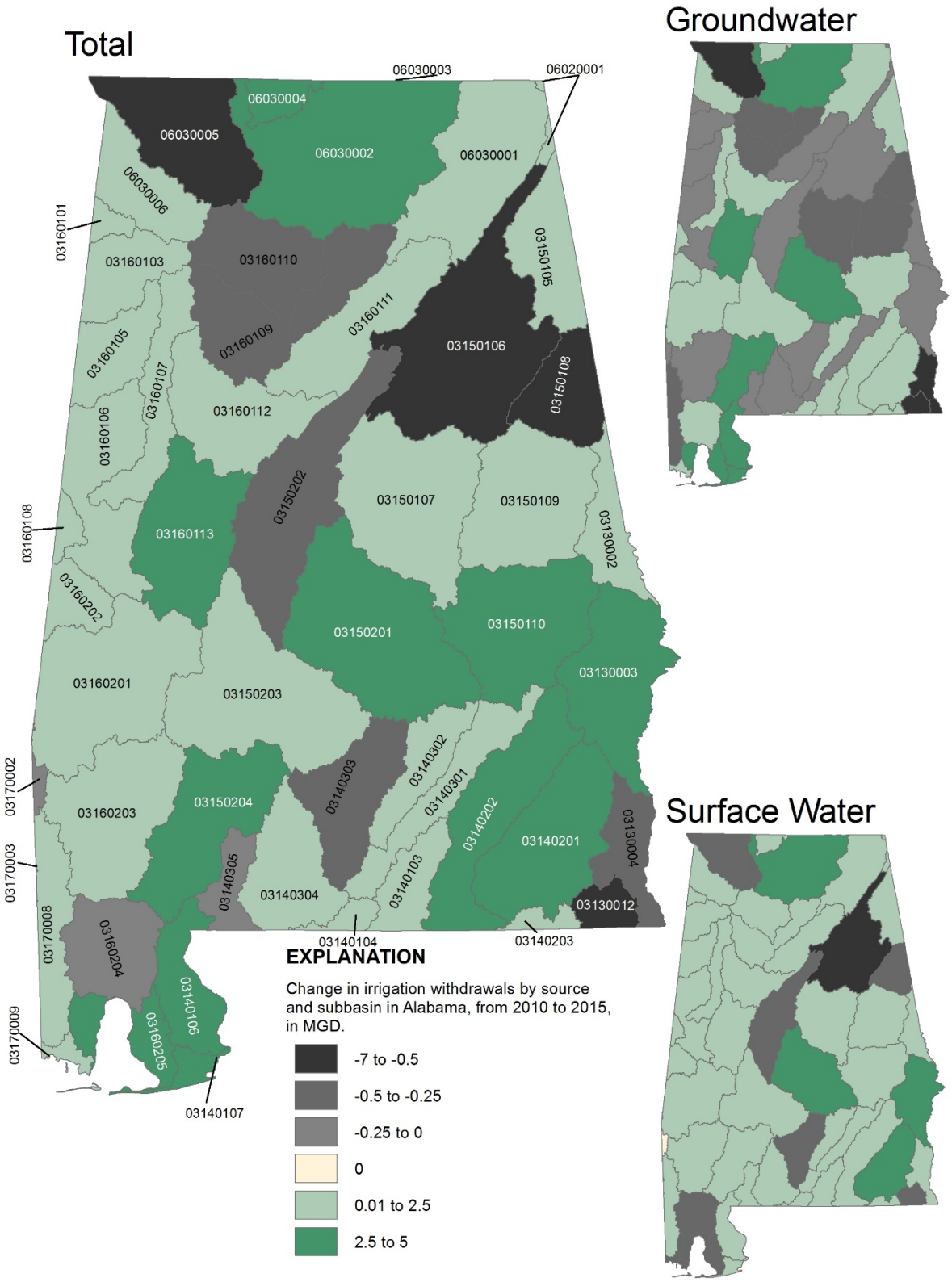


Table 63. Change in irrigation withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	2.61	1.00	3.61	3.36	0.16	3.52	0.75	-0.84	-0.09
BALDWIN	37.32	10.44	47.76	47.28	11.15	58.42	9.96	0.71	10.67
BARBOUR	0.57	2.09	2.66	0.58	2.41	2.98	0.01	0.32	0.32
BIBB	0.10	0.13	0.23	0.03	0.16	0.19	-0.07	0.02	-0.04
BLOUNT	0.25	0.62	0.87	0.20	0.88	1.08	-0.05	0.25	0.21
BULLOCK	1.72	1.85	3.57	0.92	1.08	2.00	-0.80	-0.78	-1.57
BUTLER	0.06	1.31	1.37	0.01	0.99	1.01	-0.05	-0.32	-0.36
CALHOUN	0.00	5.01	5.01	0.00	3.16	3.16	0.00	-1.85	-1.85
CHAMBERS	0.22	0.13	0.35	0.07	0.16	0.22	-0.15	0.02	-0.13
CHEROKEE	0.00	2.39	2.39	0.00	2.83	2.83	0.00	0.43	0.43
CHILTON	0.53	0.15	0.68	0.33	0.16	0.48	-0.20	0.01	-0.20
CHOCTAW	0.12	0.13	0.25	0.00	0.16	0.16	-0.12	0.02	-0.09
CLARKE	0.03	0.13	0.16	0.02	0.26	0.28	-0.01	0.12	0.11
CLAY	0.00	0.08	0.08	0.00	0.12	0.12	0.00	0.04	0.04
CLEBURNE	0.00	0.39	0.39	0.00	0.14	0.14	0.00	-0.25	-0.25
COFFEE	0.43	2.12	2.55	0.68	3.20	3.89	0.25	1.08	1.33
COLBERT	0.61	1.76	2.37	0.79	1.67	2.46	0.18	-0.09	0.08
CONECUH	0.06	0.13	0.19	0.05	0.16	0.21	-0.01	0.02	0.02
COOSA	0.02	0.02	0.04	0.00	0.10	0.10	-0.02	0.08	0.07
COVINGTON	0.95	1.54	2.49	1.27	2.20	3.47	0.32	0.66	0.99
CRENSHAW	0.00	0.29	0.29	0.00	0.58	0.58	0.00	0.29	0.29
CULLMAN	0.57	0.74	1.31	0.28	0.63	0.91	-0.29	-0.11	-0.40
DALE	0.30	2.00	2.30	0.33	1.76	2.09	0.03	-0.24	-0.21
DALLAS	0.50	2.45	2.95	0.69	2.53	3.22	0.19	0.08	0.27
DEKALB	0.46	1.69	2.15	0.49	2.15	2.65	0.03	0.46	0.49
ELMORE	0.50	1.56	2.06	0.61	2.48	3.09	0.11	0.92	1.03
ESCAMBIA	1.16	0.66	1.82	1.00	0.75	1.75	-0.16	0.09	-0.07
ETOWAH	0.13	2.13	2.26	0.00	1.00	1.01	-0.13	-1.13	-1.26
FAYETTE	0.00	0.32	0.32	0.00	0.37	0.37	0.00	0.05	0.05
FRANKLIN	0.00	0.52	0.52	0.00	0.84	0.84	0.00	0.32	0.32
GENEVA	1.42	1.63	3.05	2.52	2.97	5.50	1.10	1.35	2.45
GREENE	0.23	0.04	0.27	0.33	0.13	0.45	0.10	0.09	0.18
HALE	0.05	0.13	0.18	0.92	0.16	1.08	0.87	0.02	0.89
HENRY	1.01	3.17	4.18	1.43	4.46	5.89	0.42	1.29	1.71

Table 63. Change in irrigation withdrawals by source and county in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	8.00	3.57	11.57	5.17	2.42	7.59	-2.83	-1.15	-3.98
JACKSON	0.17	0.93	1.10	0.27	1.02	1.29	0.10	0.08	0.19
JEFFERSON	0.13	6.38	6.51	0.08	5.82	5.90	-0.05	-0.56	-0.60
LAMAR	0.01	0.17	0.18	0.00	0.24	0.24	-0.01	0.07	0.06
LAUDERDALE	1.27	1.58	2.85	0.56	1.25	1.81	-0.71	-0.33	-1.04
LAWRENCE	0.19	2.45	2.64	0.05	2.54	2.59	-0.14	0.09	-0.05
LEE	0.18	2.25	2.43	0.29	2.89	3.18	0.11	0.64	0.75
LIMESTONE	1.28	4.45	5.73	2.48	7.32	9.80	1.20	2.87	4.07
LOWNDES	0.00	4.18	4.18	0.00	5.75	5.75	0.00	1.57	1.57
MACON	1.94	3.07	5.01	2.40	3.55	5.94	0.46	0.48	0.93
MADISON	3.71	3.72	7.43	5.02	4.17	9.19	1.31	0.45	1.76
MARENGO	0.01	0.29	0.30	0.17	0.26	0.43	0.16	-0.03	0.13
MARION	0.16	0.13	0.29	0.11	0.16	0.27	-0.05	0.02	-0.02
MARSHALL	0.37	1.83	2.20	0.79	1.30	2.08	0.42	-0.53	-0.12
MOBILE	8.93	2.58	11.51	8.67	2.27	10.94	-0.26	-0.31	-0.57
MONROE	0.49	0.13	0.62	0.41	0.16	0.57	-0.08	0.02	-0.06
MONTGOMERY	1.74	1.72	3.46	4.26	2.03	6.29	2.52	0.31	2.83
MORGAN	0.14	1.00	1.14	0.16	0.89	1.04	0.02	-0.12	-0.10
PERRY	0.06	0.02	0.08	0.54	0.10	0.63	0.48	0.08	0.56
PICKENS	0.00	0.78	0.78	0.00	1.96	1.96	0.00	1.18	1.18
PIKE	0.43	1.04	1.47	0.41	1.06	1.47	-0.02	0.02	0.00
RANDOLPH	0.08	0.08	0.16	0.03	0.11	0.14	-0.05	0.03	-0.02
RUSSELL	0.00	6.49	6.49	0.00	7.47	7.47	0.00	0.98	0.98
SHELBY	0.98	1.12	2.10	0.34	1.38	1.72	-0.64	0.26	-0.38
STCLAIR	0.00	8.62	8.62	0.00	5.18	5.18	0.00	-3.43	-3.43
SUMTER	0.19	0.15	0.34	0.50	0.26	0.75	0.31	0.10	0.41
TALLADEGA	0.38	4.42	4.80	0.61	4.19	4.80	0.23	-0.23	0.00
TALLAPOOSA	0.14	0.47	0.61	0.02	0.89	0.92	-0.12	0.43	0.31
TUSCALOOSA	1.10	3.99	5.09	1.33	4.35	5.68	0.23	0.37	0.59
WALKER	0.22	0.49	0.71	0.05	0.67	0.72	-0.17	0.18	0.00
WASHINGTON	0.09	0.02	0.11	0.07	0.16	0.23	-0.02	0.14	0.12
WILCOX	0.08	0.22	0.30	0.06	0.39	0.45	-0.02	0.17	0.15
WINSTON	0.00	0.15	0.15	0.00	0.18	0.18	0.00	0.02	0.02
Total	**84.40**	**117.27**	**201.67**	**99.07**	**124.28**	**223.35**	**14.67**	**7.02**	**21.68**

Table 64. Change in irrigation withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
Apalachicola									
03130002	0.17	0.37	0.54	0.12	0.53	0.65	-0.05	0.15	0.10
03130003	0.77	8.60	9.37	0.73	9.90	10.63	-0.04	1.30	1.26
03130004	3.83	2.80	6.63	2.89	3.40	6.30	-0.94	0.60	-0.34
03130012	3.47	1.30	4.77	2.32	0.85	3.17	-1.15	-0.45	-1.60
Subtotal	*8.24*	*13.08*	*21.32*	*6.06*	*14.67*	*20.74*	*-2.18*	*1.59*	*-0.58*
Chocawhatchee-Escambia									
03140103	0.44	0.74	1.18	0.60	1.10	1.69	0.16	0.35	0.51
03140104	0.15	0.11	0.26	0.16	0.14	0.30	0.01	0.03	0.04
03140106	12.12	2.16	14.28	14.47	2.51	16.98	2.35	0.35	2.70
03140107	3.14	1.48	4.62	6.35	1.89	8.24	3.21	0.41	3.62
03140201	2.84	6.13	8.97	3.10	7.16	10.27	0.26	1.03	1.30
03140202	1.60	3.25	4.85	1.95	4.23	6.17	0.35	0.98	1.33
03140203	0.36	0.37	0.73	0.60	0.66	1.26	0.24	0.29	0.53
03140301	0.76	1.44	2.20	0.69	1.57	2.26	-0.07	0.13	0.06
03140302	0.28	0.34	0.62	0.58	0.61	1.19	0.30	0.27	0.57
03140303	0.16	1.53	1.69	0.14	1.31	1.44	-0.02	-0.22	-0.25
03140304	0.67	0.48	1.15	0.58	0.59	1.17	-0.09	0.12	0.02
03140305	0.31	0.22	0.53	0.27	0.24	0.51	-0.04	0.01	-0.03
Subtotal	*22.83*	*18.25*	*41.08*	*29.50*	*22.00*	*51.50*	*6.67*	*3.75*	*10.42*
Alabama									
03150105	0.08	3.20	3.28	0.09	3.47	3.56	0.01	0.27	0.28
03150106	0.59	17.48	18.07	0.54	10.84	11.38	-0.05	-6.64	-6.69
03150107	1.13	3.31	4.44	0.83	3.71	4.53	-0.30	0.39	0.09
03150108	0.46	0.31	0.77	0.01	0.10	0.12	-0.45	-0.21	-0.65
03150109	0.30	0.89	1.19	0.11	1.16	1.27	-0.19	0.26	0.07
03150110	3.19	6.85	10.04	3.82	7.58	11.40	0.63	0.73	1.36
03150201	4.22	6.22	10.44	6.75	7.48	14.23	2.53	1.26	3.79
03150202	0.65	5.95	6.60	0.62	5.61	6.23	-0.03	-0.34	-0.37
03150203	0.44	2.59	3.03	0.67	3.15	3.81	0.23	0.56	0.79
03150204	3.20	0.63	3.83	5.43	0.91	6.34	2.23	0.28	2.51
Subtotal	*14.26*	*47.44*	*61.70*	*18.86*	*44.00*	*62.87*	*4.60*	*-3.43*	*1.17*
Mobile-Tombigbee									
03160101	0.01	0.04	0.05	0.01	0.06	0.07	0.00	0.02	0.02

Table 64. Change in irrigation withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
03160103	0.10	0.14	0.24	0.07	0.19	0.26	-0.03	0.04	0.01
03160105	0.02	0.24	0.26	0.01	0.36	0.37	-0.01	0.12	0.11
03160106	0.16	0.67	0.83	0.10	1.61	1.72	-0.06	0.94	0.88
03160107	0.22	0.68	0.90	0.25	0.94	1.20	0.03	0.26	0.29
03160108	0.03	0.01	0.04	0.24	0.04	0.29	0.21	0.03	0.25
03160109	0.55	0.77	1.32	0.24	0.82	1.06	-0.31	0.04	-0.26
03160110	0.29	0.92	1.21	0.13	0.95	1.08	-0.16	0.03	-0.13
03160111	0.32	2.31	2.63	0.31	2.46	2.76	-0.01	0.15	0.13
03160112	0.64	3.60	4.24	0.74	3.63	4.37	0.10	0.03	0.13
03160113	0.46	1.22	1.68	1.50	1.61	3.11	1.04	0.39	1.43
03160201	0.17	0.55	0.72	0.27	0.57	0.84	0.10	0.02	0.12
03160202	0.08	0.15	0.23	0.21	0.26	0.46	0.13	0.10	0.23
03160203	0.28	0.04	0.32	0.24	0.28	0.51	-0.04	0.24	0.20
03160204	11.47	2.78	14.25	11.61	2.57	14.18	0.14	-0.21	-0.07
03160205	12.38	5.15	17.53	14.35	4.68	19.03	1.97	-0.47	1.50
Subtotal	*27.18*	*19.29*	*46.47*	*30.29*	*21.02*	*51.30*	*3.11*	*1.73*	*4.84*
Pascagoula									
03170002	0.01	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	-0.01
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	2.53	0.61	3.14	2.34	0.82	3.16	-0.19	0.21	0.02
03170009	1.38	0.36	1.74	1.70	0.23	1.93	0.32	-0.13	0.19
Subtotal	*3.92*	*0.97*	*4.89*	*4.04*	*1.05*	*5.09*	*0.12*	*0.08*	*0.21*
Middle Tennessee-Hiwassee									
06020001	0.03	0.08	0.11	0.03	0.09	0.12	0.00	0.01	0.01
Subtotal	*0.03*	*0.08*	*0.11*	*0.03*	*0.09*	*0.12*	*0.00*	*0.01*	*0.01*
Middle Tennessee-Elk									
06030001	0.60	2.45	3.05	0.91	2.68	3.60	0.31	0.24	0.55
06030002	5.12	9.62	14.74	7.27	11.82	19.09	2.15	2.20	4.35
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.51	1.47	1.98	0.82	2.24	3.07	0.31	0.77	1.08
06030005	1.53	4.00	5.53	1.01	3.82	4.83	-0.52	-0.18	-0.71
06030006	0.21	0.64	0.85	0.27	0.89	1.16	0.06	0.24	0.30
Subtotal	*7.97*	*18.19*	*26.16*	*10.28*	*21.45*	*31.73*	*2.31*	*3.26*	*5.57*
Total	**84.43**	**117.29**	**201.72**	**99.07**	**124.28**	**223.35**	**14.64**	**7.00**	**21.63**

Table 65. Change in irrigated acreage from 2010 to 2015, in Alabama, in thousand acres.

County	irrgated Acreage 2010	irrigated Acreage 2015	Acreage Diff 2010 to 2015	County	irrgated Acreage 2010	irrigated Acreage 2015	Acreage Diff 2010 to 2015
AUTAUGA	2.16	2.26	0.10	HOUSTON	14.13	13.19	-0.94
BALDWIN	24.02	20.66	-3.35	JACKSON	1.27	0.96	-0.31
BARBOUR	3.25	4.53	1.28	JEFFERSON	3.91	3.15	-0.76
BIBB	0.27	0.16	-0.11	LAMAR	0.20	0.80	0.60
BLOUNT	0.88	0.94	0.06	LAUDERDALE	2.08	1.04	-1.04
BULLOCK	1.88	1.67	-0.21	LAWRENCE	4.34	4.88	0.54
BUTLER	0.57	0.30	-0.27	LEE	1.67	2.09	0.42
CALHOUN	3.32	1.93	-1.39	LIMESTONE	8.16	15.87	7.71
CHAMBERS	0.47	0.17	-0.30	LOWNDES	3.95	5.10	1.15
CHEROKEE	1.78	1.87	0.09	MACON	3.66	3.66	0.00
CHILTON	0.86	0.57	-0.29	MADISON	8.47	11.61	3.14
CHOCTAW	0.44	0.06	-0.38	MARENGO	0.27	0.56	0.29
CLARKE	0.16	0.16	0.00	MARION	0.42	0.39	-0.03
CLAY	0.11	0.08	-0.03	MARSHALL	2.35	1.13	-1.22
CLEBURNE	0.51	0.31	-0.20	MOBILE	7.02	5.52	-1.50
COFFEE	4.50	5.06	0.56	MONROE	0.91	1.05	0.14
COLBERT	3.01	4.17	1.17	MONTGOMERY	2.23	3.47	1.25
CONECUH	0.23	0.16	-0.07	MORGAN	1.01	0.86	-0.15
COOSA	0.08	0.06	-0.02	PERRY	0.20	1.23	1.03
COVINGTON	2.02	2.22	0.20	PICKENS	0.80	4.24	3.44
CRENSHAW	0.67	0.96	0.29	PIKE	2.68	3.36	0.68
CULLMAN	1.21	0.73	-0.48	RANDOLPH	0.28	0.13	-0.14
DALE	3.31	2.84	-0.47	RUSSELL	4.23	4.78	0.55
DALLAS	3.58	3.16	-0.41	SHELBY	2.35	1.27	-1.08
DEKALB	1.70	0.67	-1.03	STCLAIR	4.59	1.93	-2.66
ELMORE	2.56	3.83	1.28	SUMTER	0.63	1.59	0.96
ESCAMBIA	2.31	1.96	-0.35	TALLADEGA	4.58	6.09	1.51
ETOWAH	1.54	0.65	-0.89	TALLAPOOSA	0.62	1.44	0.82
FAYETTE	0.49	0.45	-0.04	TUSCALOOSA	2.95	2.92	-0.02
FRANKLIN	0.44	1.23	0.79	WALKER	1.04	0.44	-0.59
GENEVA	3.44	8.86	5.42	WASHINGTON	0.17	0.15	-0.02
GREENE	0.32	0.44	0.12	WILCOX	0.29	0.28	0.00
HALE	0.19	1.96	1.77	WINSTON	0.14	0.14	0.00
HENRY	5.48	8.58	3.10	**Total**	**169.24**	**188.97**	**19.73**

Livestock Water Withdrawals

The geographic distribution of the comparison of livestock withdrawals from 2010 to 2015 is shown in tables 66 and 67. Livestock withdrawals decreased 1 percent from 26.48 MGD in 2010 to 26.21 MGD in 2015. The counties with the largest increases in total livestock withdrawals from 2010 to 2015 were Montgomery (0.32 MGD), Shelby (0.19 MGD) and Randolph (0.16 MGD) Counties. The counties with the largest decreases in livestock withdrawals from 2010 to 2015 were St. Clair (-0.26 MGD) and Pickens (-0.23 MGD) Counties (figure 53). The subbasins with the largest increases in livestock withdrawals from 2010 to 2015 were the Upper Alabama (03150201; 0.32 MGD), the Lower Alabama (03150204; 0.15 MGD) and the Upper Coosa (03150105; 0.13 MGD) subbasins. The subbasins with the largest decreases in livestock withdrawals from 2010 to 2015 were the Mulberry Fork (03160109; -0.32 MGD), the Middle Tombigbee-Lubbub (03160106; -0.26 MGD), and the Sipsey Fork (03160110; -0.24 MGD) subbasins (figure 54).

Livestock surface-water withdrawals decreased 1 percent from 14.80 MGD in 2010 to 14.67 MGD in 2015. The counties with the largest increases in livestock surface-water withdrawals from 2010 to 2015 were Montgomery (0.19 MGD) and Shelby (0.11 MGD) Counties. The counties with the largest decreases in livestock surface-water withdrawals from 2010 to 2015 were Cullman (-0.22 MGD), St. Clair (-0.15 MGD), and Pickens (-0.12 MGD) Counties. The subbasins with the largest increases in livestock surface-water withdrawals from 2010 to 2015 are the Upper Alabama (03150201; 0.18 MGD), the Lower Alabama (03150204; 0.09 MGD) and the Upper Coosa (03150105; 0.07 MGD). The subbasins with the largest decreases in livestock surface-water withdrawals from 2010 to 2015 are the Mulberry Fork (03160109; -0.17 MGD), the Middle Tombigbee-Lubbub (03160106; -0.14 MGD), and the Sipsey Fork (03160110; -0.12 MGD) subbasins.

Livestock groundwater withdrawals decreased 1 percent from 11.68 MGD in 2010 to 11.54 MGD in 2015. The counties with the largest increases in livestock groundwater withdrawals from 2010 to 2015 are Montgomery (0.13 MGD), Randolph (0.08 MGD), and Shelby (0.08 MGD). The counties with the largest decreases in livestock groundwater withdrawals from 2010 to 2015 are Cullman (-0.22 MGD), St. Clair (-0.11 MGD), and Pickens (-0.11 MGD) Counties. The subbasins with the largest increases in livestock groundwater withdrawals from 2010 to 2015 were the Upper Alabama (03150201; 0.13 MGD), the Upper Coosa (03150105; 0.06 MGD), and the Middle Tallapoosa (03150109; 0.063 MGD) subbasins. The subbasins with the largest decreases in livestock groundwater withdrawals from 2010 to 2015 are the Mulberry Fork (03160109; -0.16 MGD), the Middle Tombigbee-Lubbub (03160106; -0.12 MGD), and the Sipsey Fork (03160110; -0.12 MGD) subbasins.

Figure 53. Map of change in livestock withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

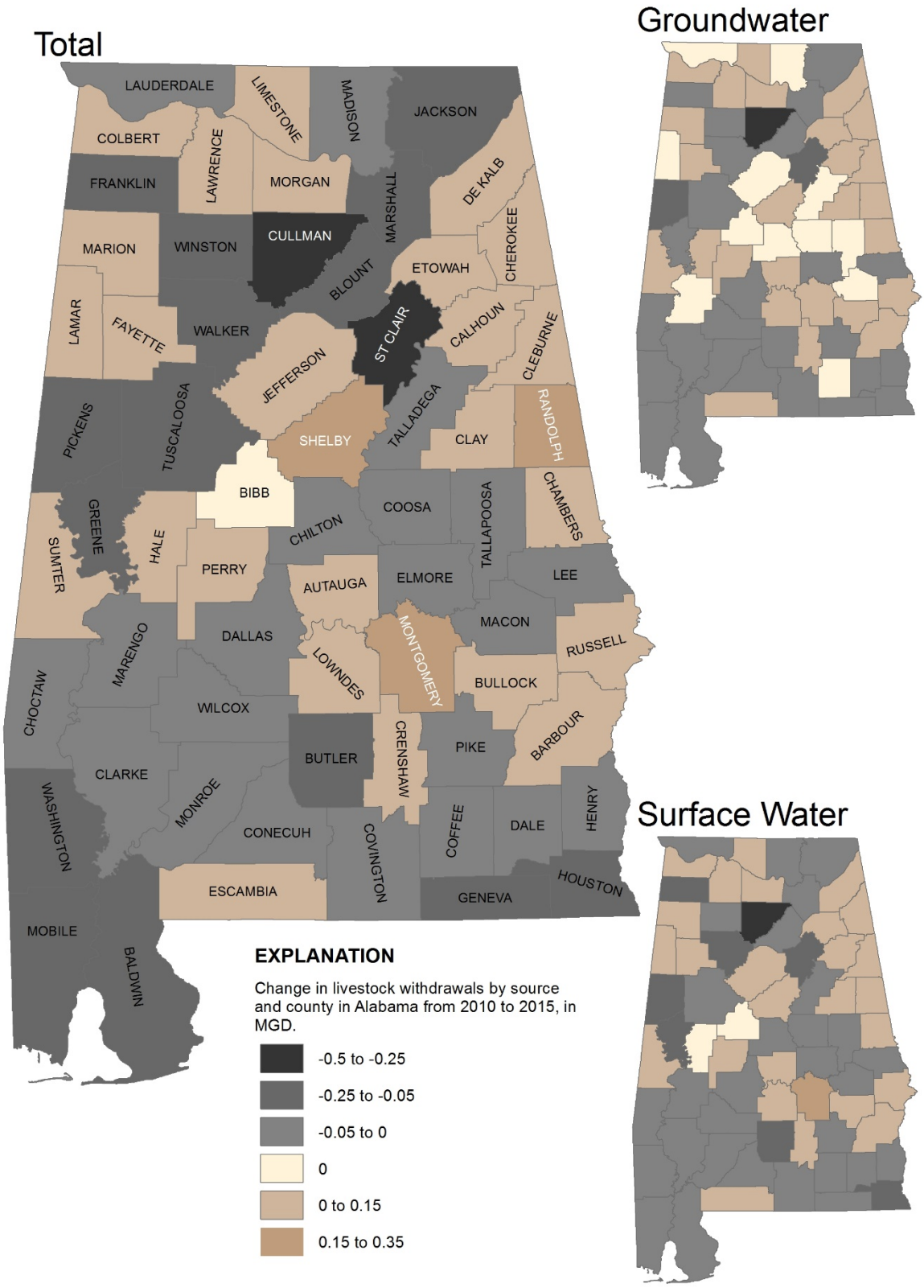


Figure 54. Map of the change in livestock withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

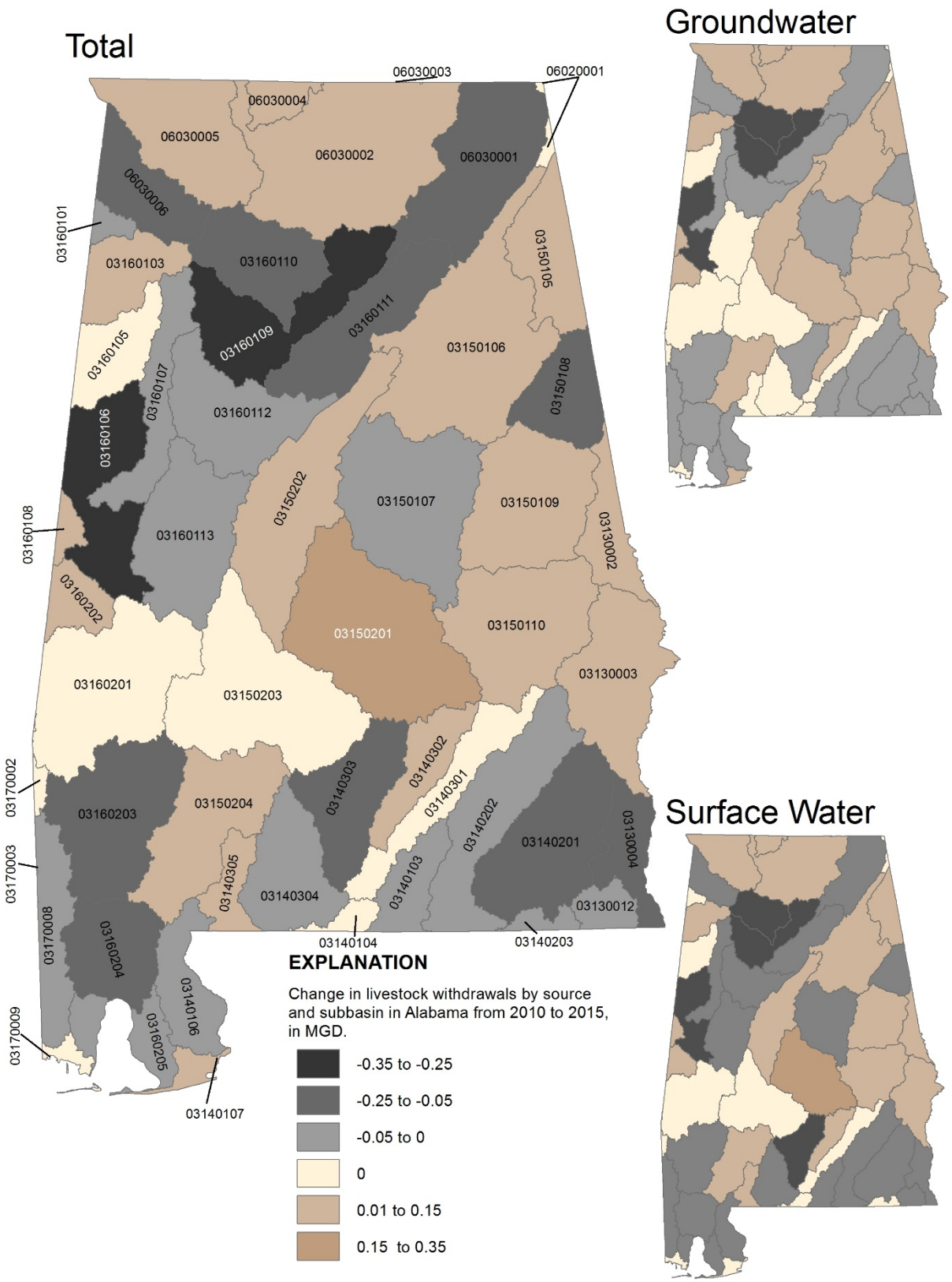


Table 66. Change in livestock withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	0.06	0.09	0.15	0.08	0.11	0.19	0.02	0.02	0.04
BALDWIN	0.16	0.19	0.35	0.13	0.16	0.29	-0.03	-0.03	-0.06
BARBOUR	0.15	0.23	0.38	0.16	0.25	0.41	0.01	0.02	0.03
BIBB	0.03	0.04	0.07	0.03	0.04	0.07	0.00	0.00	0.00
BLOUNT	0.47	0.51	0.98	0.43	0.47	0.90	-0.04	-0.04	-0.08
BULLOCK	0.05	0.09	0.14	0.06	0.10	0.16	0.01	0.01	0.02
BUTLER	0.16	0.24	0.40	0.13	0.19	0.32	-0.03	-0.05	-0.08
CALHOUN	0.13	0.19	0.32	0.15	0.21	0.36	0.02	0.02	0.04
CHAMBERS	0.07	0.11	0.18	0.09	0.13	0.22	0.02	0.02	0.04
CHEROKEE	0.11	0.17	0.28	0.16	0.24	0.40	0.05	0.07	0.12
CHILTON	0.07	0.11	0.18	0.07	0.09	0.16	0.00	-0.02	-0.02
CHOCTAW	0.04	0.05	0.09	0.03	0.03	0.06	-0.01	-0.02	-0.03
CLARKE	0.03	0.05	0.08	0.02	0.04	0.06	-0.01	-0.01	-0.02
CLAY	0.13	0.17	0.30	0.17	0.21	0.38	0.04	0.04	0.08
CLEBURNE	0.14	0.16	0.30	0.15	0.18	0.33	0.01	0.02	0.03
COFFEE	0.34	0.46	0.80	0.34	0.45	0.79	0.00	-0.01	-0.01
COLBERT	0.13	0.16	0.29	0.16	0.21	0.37	0.03	0.05	0.08
CONECUH	0.06	0.10	0.16	0.05	0.07	0.12	-0.01	-0.03	-0.04
COOSA	0.02	0.03	0.05	0.02	0.02	0.04	0.00	-0.01	-0.01
COVINGTON	0.25	0.34	0.59	0.23	0.32	0.55	-0.02	-0.02	-0.04
CRENSHAW	0.28	0.39	0.67	0.30	0.42	0.72	0.02	0.03	0.05
CULLMAN	1.04	1.01	2.05	0.82	0.79	1.61	-0.22	-0.22	-0.44
DALE	0.18	0.24	0.42	0.17	0.23	0.40	-0.01	-0.01	-0.02
DALLAS	0.12	0.18	0.30	0.10	0.16	0.26	-0.02	-0.02	-0.04
DEKALB	0.97	1.09	2.06	0.99	1.11	2.10	0.02	0.02	0.04
ELMORE	0.08	0.09	0.17	0.07	0.08	0.15	-0.01	-0.01	-0.02
ESCAMBIA	0.06	0.08	0.14	0.07	0.10	0.17	0.01	0.02	0.03
ETOWAH	0.19	0.23	0.42	0.21	0.26	0.47	0.02	0.03	0.05
FAYETTE	0.07	0.09	0.16	0.08	0.10	0.18	0.01	0.01	0.02
FRANKLIN	0.32	0.43	0.75	0.28	0.37	0.65	-0.04	-0.06	-0.10
GENEVA	0.35	0.45	0.80	0.32	0.42	0.74	-0.03	-0.03	-0.06
GREENE	0.08	0.13	0.21	0.05	0.07	0.12	-0.03	-0.06	-0.09
HALE	0.13	0.16	0.29	0.14	0.16	0.30	0.01	0.00	0.01
HENRY	0.11	0.17	0.28	0.10	0.16	0.26	-0.01	-0.01	-0.02

Table 66. Change in livestock withdrawals by source and county in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	0.14	0.20	0.34	0.10	0.15	0.25	-0.04	-0.05	-0.09
JACKSON	0.32	0.39	0.71	0.29	0.37	0.66	-0.03	-0.02	-0.05
JEFFERSON	0.03	0.04	0.07	0.03	0.05	0.08	0.00	0.01	0.01
LAMAR	0.05	0.05	0.10	0.05	0.06	0.11	0.00	0.01	0.01
LAUDERDALE	0.19	0.27	0.46	0.19	0.26	0.45	0.00	-0.01	-0.01
LAWRENCE	0.30	0.40	0.70	0.36	0.48	0.84	0.06	0.08	0.14
LEE	0.04	0.06	0.10	0.03	0.04	0.07	-0.01	-0.02	-0.03
LIMESTONE	0.16	0.21	0.37	0.21	0.27	0.48	0.05	0.06	0.11
LOWNDES	0.23	0.34	0.57	0.27	0.41	0.68	0.04	0.07	0.11
MACON	0.04	0.07	0.11	0.04	0.06	0.10	0.00	-0.01	-0.01
MADISON	0.12	0.17	0.29	0.12	0.16	0.28	0.00	-0.01	-0.01
MARENGO	0.11	0.18	0.29	0.11	0.16	0.27	0.00	-0.02	-0.02
MARION	0.18	0.25	0.43	0.19	0.26	0.45	0.01	0.01	0.02
MARSHALL	0.59	0.59	1.18	0.56	0.56	1.12	-0.03	-0.03	-0.06
MOBILE	0.13	0.16	0.29	0.10	0.13	0.23	-0.03	-0.03	-0.06
MONROE	0.07	0.11	0.18	0.06	0.09	0.15	-0.01	-0.02	-0.03
MONTGOMERY	0.24	0.35	0.59	0.37	0.54	0.91	0.13	0.19	0.32
MORGAN	0.30	0.37	0.67	0.33	0.40	0.73	0.03	0.03	0.06
PERRY	0.08	0.10	0.18	0.14	0.19	0.33	0.06	0.09	0.15
PICKENS	0.31	0.32	0.63	0.20	0.20	0.40	-0.11	-0.12	-0.23
PIKE	0.24	0.34	0.58	0.23	0.33	0.56	-0.01	-0.01	-0.02
RANDOLPH	0.20	0.23	0.43	0.28	0.31	0.59	0.08	0.08	0.16
RUSSELL	0.04	0.06	0.10	0.05	0.07	0.12	0.01	0.01	0.02
SHELBY	0.04	0.06	0.10	0.12	0.17	0.29	0.08	0.11	0.19
STCLAIR	0.15	0.21	0.36	0.04	0.06	0.10	-0.11	-0.15	-0.26
SUMTER	0.12	0.18	0.30	0.18	0.27	0.45	0.06	0.09	0.15
TALLADEGA	0.10	0.13	0.23	0.10	0.12	0.22	0.00	-0.01	-0.01
TALLAPOOSA	0.04	0.06	0.10	0.04	0.05	0.09	0.00	-0.01	-0.01
TUSCALOOSA	0.09	0.11	0.20	0.06	0.08	0.14	-0.03	-0.03	-0.06
WALKER	0.12	0.16	0.28	0.08	0.11	0.19	-0.04	-0.05	-0.09
WASHINGTON	0.09	0.10	0.19	0.06	0.07	0.13	-0.03	-0.03	-0.06
WILCOX	0.07	0.11	0.18	0.06	0.09	0.15	-0.01	-0.02	-0.03
WINSTON	0.17	0.19	0.36	0.13	0.15	0.28	-0.04	-0.04	-0.08
Total	**11.68**	**14.80**	**26.48**	**11.54**	**14.67**	**26.21**	**-0.14**	**-0.13**	**-0.27**

Table 67. Change in livestock withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
Apalachicola									
03130002	0.07	0.11	0.18	0.09	0.12	0.21	0.02	0.01	0.03
03130003	0.14	0.22	0.36	0.16	0.24	0.40	0.02	0.02	0.04
03130004	0.12	0.19	0.31	0.10	0.16	0.26	-0.02	-0.03	-0.05
03130012	0.06	0.09	0.15	0.05	0.07	0.12	-0.01	-0.02	-0.03
Subtotal	*0.39*	*0.61*	*1.00*	*0.40*	*0.59*	*0.99*	*0.01*	*-0.02*	*-0.01*
Chocawhatchee-Escambia									
03140103	0.13	0.18	0.31	0.12	0.17	0.29	-0.01	-0.01	-0.02
03140104	0.02	0.03	0.05	0.02	0.03	0.05	0.00	0.00	0.00
03140106	0.06	0.07	0.13	0.04	0.06	0.10	-0.02	-0.01	-0.03
03140107	0.01	0.02	0.03	0.02	0.02	0.04	0.01	0.00	0.01
03140201	0.54	0.73	1.27	0.51	0.70	1.21	-0.03	-0.03	-0.06
03140202	0.53	0.73	1.26	0.52	0.71	1.23	-0.01	-0.02	-0.03
03140203	0.08	0.10	0.18	0.07	0.10	0.17	-0.01	0.00	-0.01
03140301	0.25	0.35	0.60	0.25	0.35	0.60	0.00	0.00	0.00
03140302	0.23	0.33	0.56	0.25	0.36	0.61	0.02	0.03	0.05
03140303	0.18	0.28	0.46	0.16	0.23	0.39	-0.02	-0.05	-0.07
03140304	0.07	0.10	0.17	0.07	0.09	0.16	0.00	-0.01	-0.01
03140305	0.02	0.03	0.05	0.02	0.04	0.06	0.00	0.01	0.01
Subtotal	*2.12*	*2.95*	*5.07*	*2.06*	*2.86*	*4.92*	*-0.06*	*-0.09*	*-0.15*
Alabama									
03150105	0.31	0.40	0.71	0.37	0.47	0.84	0.06	0.07	0.13
03150106	0.65	0.83	1.48	0.70	0.87	1.57	0.05	0.04	0.09
03150107	0.22	0.30	0.52	0.21	0.26	0.47	-0.01	-0.04	-0.05
03150108	0.28	0.35	0.63	0.26	0.30	0.56	-0.02	-0.05	-0.07
03150109	0.22	0.29	0.51	0.28	0.34	0.62	0.06	0.05	0.11
03150110	0.16	0.24	0.40	0.18	0.26	0.43	0.02	0.02	0.03
03150201	0.48	0.71	1.19	0.61	0.89	1.51	0.13	0.18	0.32
03150202	0.16	0.22	0.38	0.18	0.25	0.43	0.02	0.03	0.05
03150203	0.27	0.41	0.68	0.27	0.41	0.68	0.00	0.00	0.00
03150204	0.02	0.02	0.04	0.08	0.11	0.19	0.06	0.09	0.15
Subtotal	*2.77*	*3.77*	*6.54*	*3.13*	*4.17*	*7.30*	*0.36*	*0.40*	*0.76*
Mobile-Tombigbee									
03160101	0.05	0.06	0.11	0.04	0.06	0.10	-0.01	0.00	-0.01

Table 67. Change in livestock withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
03160103	0.13	0.17	0.30	0.14	0.18	0.32	0.01	0.01	0.02
03160105	0.08	0.09	0.17	0.08	0.09	0.17	0.00	0.00	0.00
03160106	0.32	0.36	0.68	0.20	0.22	0.42	-0.12	-0.14	-0.26
03160107	0.12	0.15	0.27	0.10	0.13	0.23	-0.02	-0.02	-0.04
03160108	0.02	0.03	0.05	0.05	0.08	0.13	0.03	0.05	0.08
03160109	0.78	0.81	1.59	0.62	0.64	1.27	-0.16	-0.17	-0.32
03160110	0.64	0.66	1.30	0.52	0.54	1.06	-0.12	-0.12	-0.24
03160111	0.48	0.52	1.00	0.45	0.50	0.95	-0.03	-0.02	-0.05
03160112	0.08	0.10	0.18	0.07	0.09	0.16	-0.01	-0.01	-0.02
03160113	0.20	0.26	0.46	0.20	0.24	0.45	0.00	-0.02	-0.01
03160201	0.16	0.24	0.40	0.16	0.23	0.39	0.00	-0.01	-0.01
03160202	0.05	0.08	0.13	0.08	0.11	0.19	0.03	0.03	0.06
03160203	0.09	0.11	0.20	0.06	0.08	0.14	-0.03	-0.03	-0.06
03160204	0.08	0.10	0.18	0.06	0.07	0.13	-0.02	-0.03	-0.05
03160205	0.07	0.09	0.16	0.05	0.07	0.12	-0.02	-0.02	-0.04
Subtotal	*3.35*	*3.83*	*7.18*	*2.88*	*3.34*	*6.23*	*-0.47*	*-0.49*	*-0.95*
Pascagoula									
03170002	0.00	0.01	0.01	0.00	0.00	0.01	0.00	-0.01	0.00
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.06	0.07	0.13	0.04	0.05	0.09	-0.02	-0.02	-0.04
03170009	0.02	0.03	0.05	0.02	0.03	0.04	0.00	0.00	-0.01
Subtotal	*0.08*	*0.11*	*0.19*	*0.06*	*0.08*	*0.14*	*-0.02*	*-0.03*	*-0.05*
Middle Tennessee-Hiwassee									
06020001	0.06	0.07	0.13	0.06	0.07	0.13	0.00	0.00	0.00
Subtotal	*0.06*	*0.07*	*0.13*	*0.06*	*0.07*	*0.13*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk									
06030001	1.12	1.24	2.36	1.09	1.22	2.30	-0.03	-0.02	-0.06
06030002	0.97	1.18	2.15	1.02	1.24	2.26	0.05	0.06	0.11
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.07	0.09	0.16	0.08	0.11	0.19	0.01	0.02	0.03
06030005	0.42	0.57	0.99	0.46	0.62	1.08	0.04	0.05	0.09
06030006	0.32	0.42	0.74	0.29	0.39	0.68	-0.03	-0.03	-0.06
Subtotal	*2.90*	*3.50*	*6.40*	*2.94*	*3.57*	*6.51*	*0.04*	*0.07*	*0.11*
Total	**11.67**	**14.84**	**26.51**	**11.54**	**14.67**	**26.21**	**-0.13**	**-0.17**	**-0.30**

Aquaculture Withdrawals

The geographic distribution of the comparison of aquaculture withdrawals from 2010 to 2015 is shown in table 68. Aquaculture water withdrawals decreased 17 percent; from 59 MGD in 2010 to 49 MGD in 2015. The counties with the largest increases in aquaculture withdrawals from 2010 to 2015 are Dallas (5 MGD) and Lowndes (1 MGD) Counties. The counties with the largest decreases in aquaculture water withdrawals from 2010 to 2015 are Perry (-4 MGD), Sumter (-2 MGD), Barbour (-2 MGD), and Hale (-2 MGD) Counties (figure 55). There was not a subbasin analysis done for the self-supplied residential sector for 2010, therefore there is no comparison of subbasins from 2010 to 2015.

Surface-water aquaculture withdrawals declined 17 percent from 27 MGD in 2010 to 22 MGD in 2015. The counties with the largest increases in surface-water aquaculture withdrawals are Dallas (2 MGD), Hale (1 MGD), Greene (1 MGD), and Lowndes (1 MGD) Counties. The counties with the largest decreases in surface-water aquaculture withdrawals from 2010 to 2015 are Perry (-2 MGD), Barbour (-2 MGD), Bibb (-1 MGD), and Sumter (-1 MGD) Counties.

Groundwater aquaculture withdrawals declined 16 percent from 32 MGD in 2010 to 27 MGD in 2015. The counties with the largest increases in groundwater aquaculture withdrawals from 2010 to 2015 are Dallas (3 MGD), Lowndes (1 MGD), and Cherokee (1 MGD) Counties. The counties with the largest decreases in groundwater withdrawals from 2010 to 2015 are Hale (-3 MGD), Perry (-2 MGD), and Greene (-2 MGD) Counties.

Figure 55. Map of the change in aquaculture withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

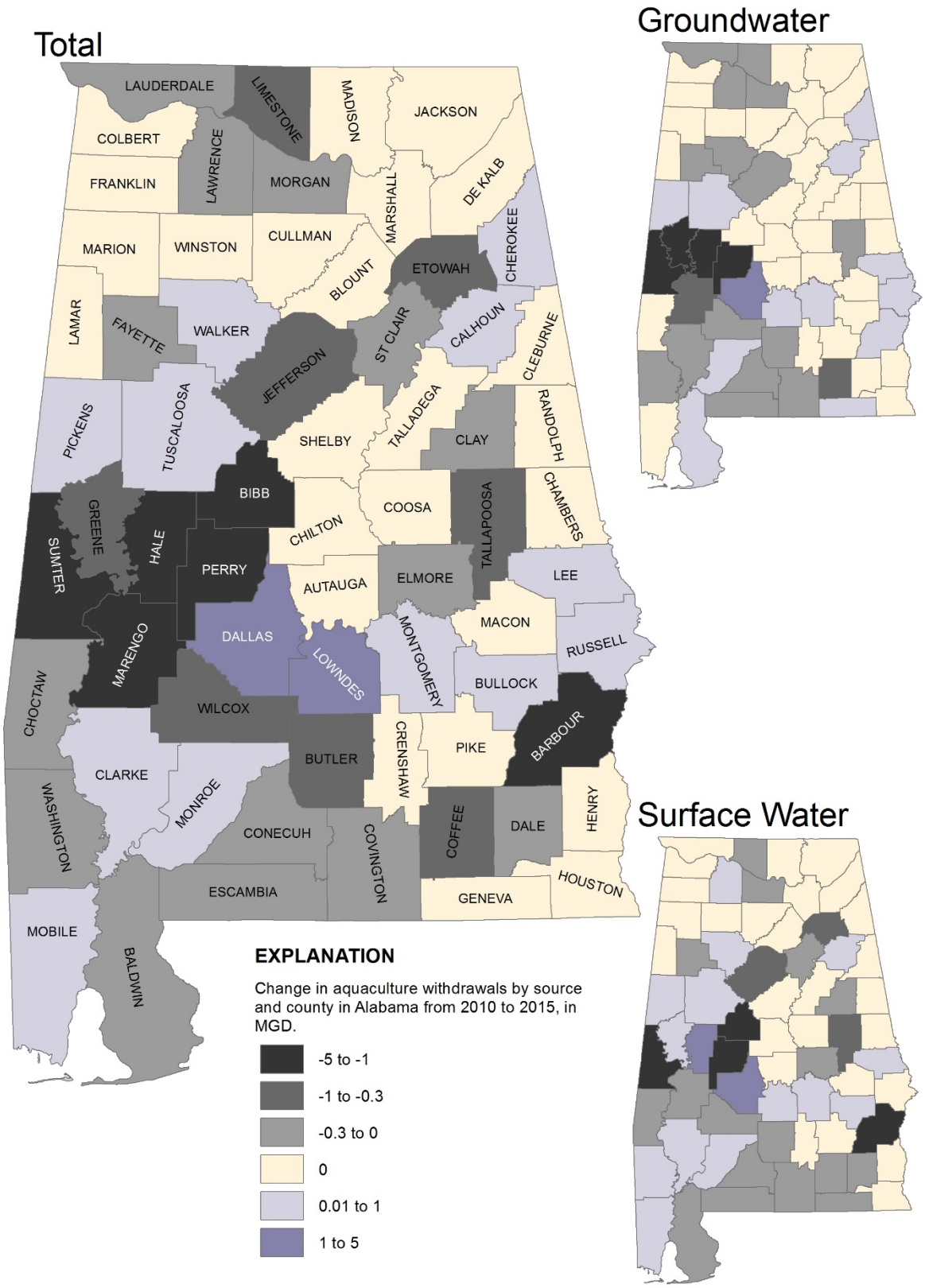


Table 68. Change in aquaculture withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BALDWIN	0.00	0.16	0.16	0.05	0.05	0.10	0.05	-0.11	-0.06
BARBOUR	0.09	2.34	2.43	0.18	0.18	0.36	0.09	-2.16	-2.07
BIBB	0.00	1.45	1.45	0.00	0.00	0.00	0.00	-1.45	-1.45
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.05	0.05
BUTLER	0.27	0.23	0.50	0.00	0.00	0.00	-0.27	-0.23	-0.50
CALHOUN	0.00	0.02	0.02	0.12	0.12	0.24	0.12	0.10	0.22
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.51	0.00	0.51	0.51	0.00	0.51
CHILTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHOCTAW	0.00	0.03	0.03	0.00	0.00	0.00	0.00	-0.03	-0.03
CLARKE	0.03	0.03	0.06	0.00	0.10	0.10	-0.03	0.07	0.04
CLAY	0.00	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	0.48	0.26	0.74	0.00	0.00	0.00	-0.48	-0.26	-0.74
COLBERT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CONECUH	0.07	0.07	0.14	0.00	0.00	0.00	-0.07	-0.07	-0.14
COOSA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVINGTON	0.05	0.05	0.10	0.00	0.00	0.00	-0.05	-0.05	-0.10
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALE	0.00	0.05	0.05	0.00	0.00	0.00	0.00	-0.05	-0.05
DALLAS	5.00	2.14	7.14	7.79	3.90	11.69	2.79	1.76	4.55
DEKALB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELMORE	0.00	0.05	0.05	0.00	0.00	0.00	0.00	-0.05	-0.05
ESCAMBIA	0.02	0.01	0.03	0.00	0.00	0.00	-0.02	-0.01	-0.03
ETOWAH	0.00	0.31	0.31	0.00	0.01	0.01	0.00	-0.30	-0.30
FAYETTE	0.02	0.02	0.04	0.00	0.00	0.00	-0.02	-0.02	-0.04
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.10	0.03	0.13	0.13	0.00	0.13	0.03	-0.03	0.00
GREENE	5.71	4.13	9.84	4.21	5.09	9.30	-1.50	0.96	-0.54
HALE	11.77	6.06	17.83	8.81	7.34	16.15	-2.96	1.28	-1.68
HENRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 68. Comparison of aquaculture withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JACKSON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JEFFERSON	0.01	0.45	0.46	0.00	0.00	0.00	-0.01	-0.45	-0.46
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	0.02	0.00	0.02	0.00	0.00	0.00	-0.02	0.00	-0.02
LAWRENCE	0.05	0.00	0.05	0.00	0.01	0.01	-0.05	0.01	-0.04
LEE	0.02	0.03	0.05	0.03	0.04	0.07	0.01	0.01	0.02
LIMESTONE	0.18	0.15	0.33	0.01	0.00	0.01	-0.17	-0.15	-0.32
LOWNDES	0.00	0.03	0.03	0.65	0.65	1.30	0.65	0.62	1.27
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARENGO	1.45	1.19	2.64	0.69	0.92	1.61	-0.76	-0.27	-1.03
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MOBILE	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01
MONROE	0.03	0.03	0.06	0.07	0.07	0.14	0.04	0.04	0.08
MONTGOMERY	0.16	0.17	0.33	0.20	0.20	0.40	0.04	0.03	0.07
MORGAN	0.02	0.02	0.04	0.00	0.00	0.00	-0.02	-0.02	-0.04
PERRY	4.58	4.01	8.59	2.34	1.76	4.10	-2.24	-2.25	-4.49
PICKENS	0.50	0.50	1.00	0.61	0.77	1.38	0.11	0.27	0.38
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	0.00	0.00	0.00	0.21	0.00	0.21	0.21	0.00	0.21
SHELBY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STCLAIR	0.00	0.04	0.04	0.00	0.00	0.00	0.00	-0.04	-0.04
SUMTER	1.49	1.55	3.04	0.40	0.50	0.90	-1.09	-1.05	-2.14
TALLADEGA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TALLAPOOSA	0.02	0.78	0.80	0.00	0.00	0.00	-0.02	-0.78	-0.80
TUSCALOOSA	0.04	0.00	0.04	0.24	0.33	0.57	0.20	0.33	0.53
WALKER	0.01	0.02	0.03	0.00	0.05	0.05	-0.01	0.03	0.02
WASHINGTON	0.03	0.00	0.03	0.00	0.02	0.02	-0.03	0.02	-0.01
WILCOX	0.23	0.23	0.46	0.00	0.00	0.00	-0.23	-0.23	-0.46
WINSTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**32.45**	**26.65**	**59.10**	**27.25**	**22.17**	**49.42**	**-5.20**	**-4.48**	**-9.68**

Industrial Water Withdrawals

The geographic distribution of the comparison of industrial withdrawals from 2010 to 2015 is shown in tables 69 and 70. Industrial withdrawals decreased 12 percent from 562 MGD in 2010 to 495 MGD in 2015, primarily due to the closure of the International Paper Courtland facility in Lawrence County in 2014. The counties with the largest increases in total industrial withdrawals from 2010 to 2015 were Morgan (10 MGD), Choctaw (6 MGD), and Lowndes (4 MGD) Counties. The counties with the largest decreases in industrial withdrawals from 2010 to 2015 were Lawrence (-60 MGD) and Colbert (-40 MGD) Counties (figure 56). The subbasins with the largest increases in industrial withdrawals from 2010 to 2015 were the Middle Tombigbee-Chickasaw (03160201; 8 MGD), the Upper Alabama (03150201; 6 MGD) and the Mobile-Tensaw (03160204; 3 MGD) subbasins. The subbasins with the largest decreases in industrial withdrawals from 2010 to 2015 were the Wheeler Lake (06030002; -50 MGD) and the Pickwick Lake (06030005; -40 MGD) subbasins (figure 57).

Industrial surface-water withdrawals decreased 13 percent from 535 MGD in 2010 to 462 MGD in 2015. The counties with the largest increases in industrial surface-water withdrawals from 2010 to 2015 were Morgan (10 MGD), Choctaw (6 MGD), Mobile (3 MGD), Monroe (3 MGD) and Sumter (3 MGD) Counties. The counties with the largest decreases in industrial surface-water withdrawals from 2010 to 2015 were Lawrence (-60 MGD) and Colbert (-40 MGD) Counties. The subbasins with the largest increases in industrial surface-water withdrawals from 2010 to 2015 are the Middle Tombigbee-Chickasaw (03160201; 8 MGD), the Mobile-Tensaw (03160204; 3 MGD) the Lower Alabama (03150204; 3 MGD) and the Middle Coosa (03150106; 3 MGD) subbasins. The subbasins with the largest decreases in industrial surface-water withdrawals from 2010 to 2015 are the Wheeler Lake (06030002; -50 MGD) and the Pickwick Lake (06030005; -40 MGD) subbasins.

Industrial groundwater withdrawals increased 20 percent from 27 MGD in 2010 to 33 MGD in 2015. The counties with the largest increases in industrial groundwater withdrawals from 2010 to 2015 are Lowndes (4 MGD) and Montgomery (2 MGD) Counties. The counties with the largest decreases in industrial groundwater withdrawals from 2010 to 2015 are Coffee (-0.5 MGD) and Mobile (-0.4 MGD) Counties. The subbasins with the largest increases in industrial groundwater withdrawals from 2010 to 2015 were the Upper Alabama (03150201; 6 MGD) and the lower Black Warrior (03160113; 1 MGD) subbasins. The subbasins with the largest decreases in industrial groundwater withdrawals from 2010 to 2015 are the Lower Tombigbee (03160203; -1 MGD) and the Upper Choctawhatchee (03140201; -1 MGD) subbasins.

Figure 56. Map of the change in industrial withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

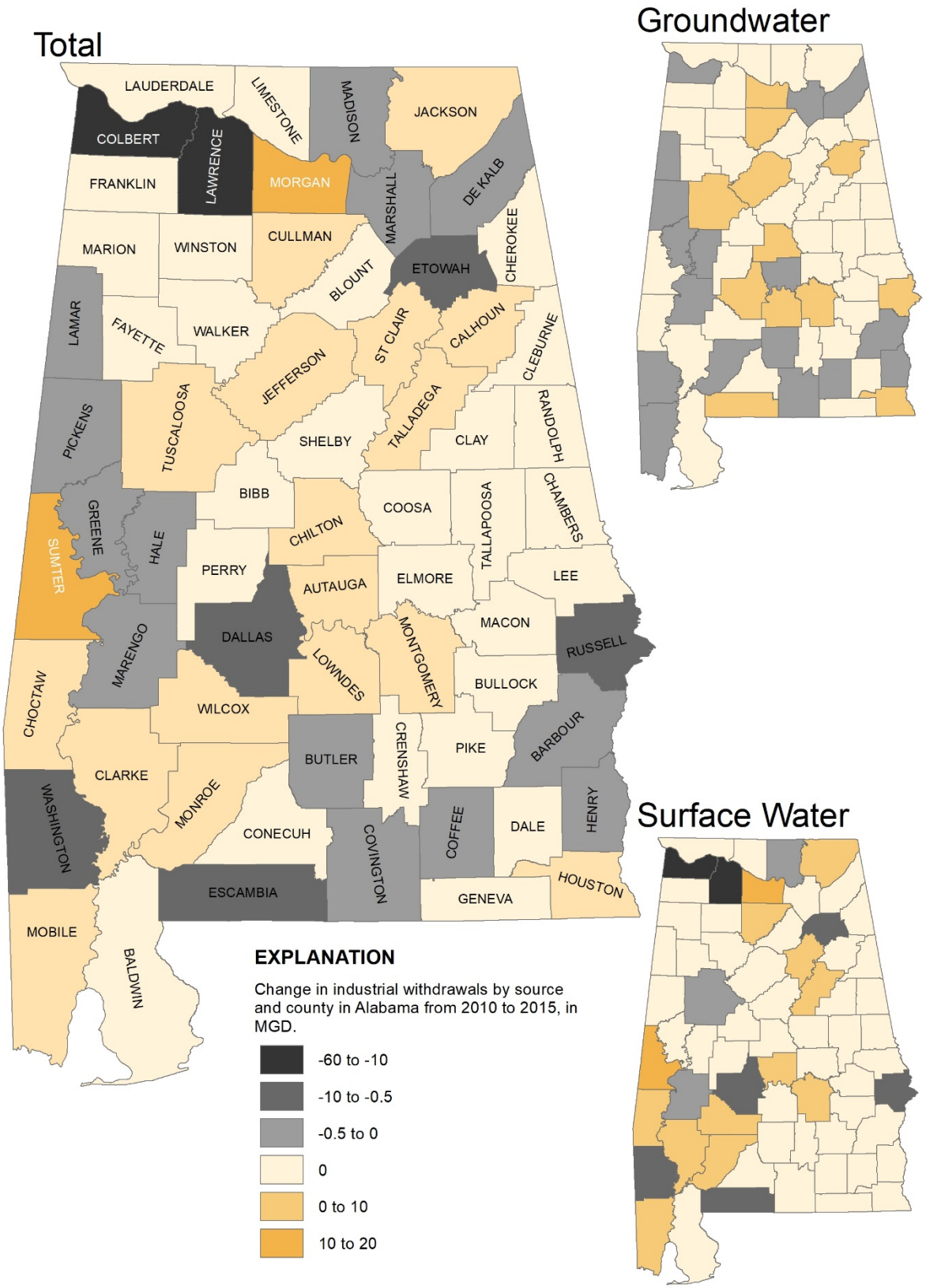


Figure 57. Map of the change in industrial withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

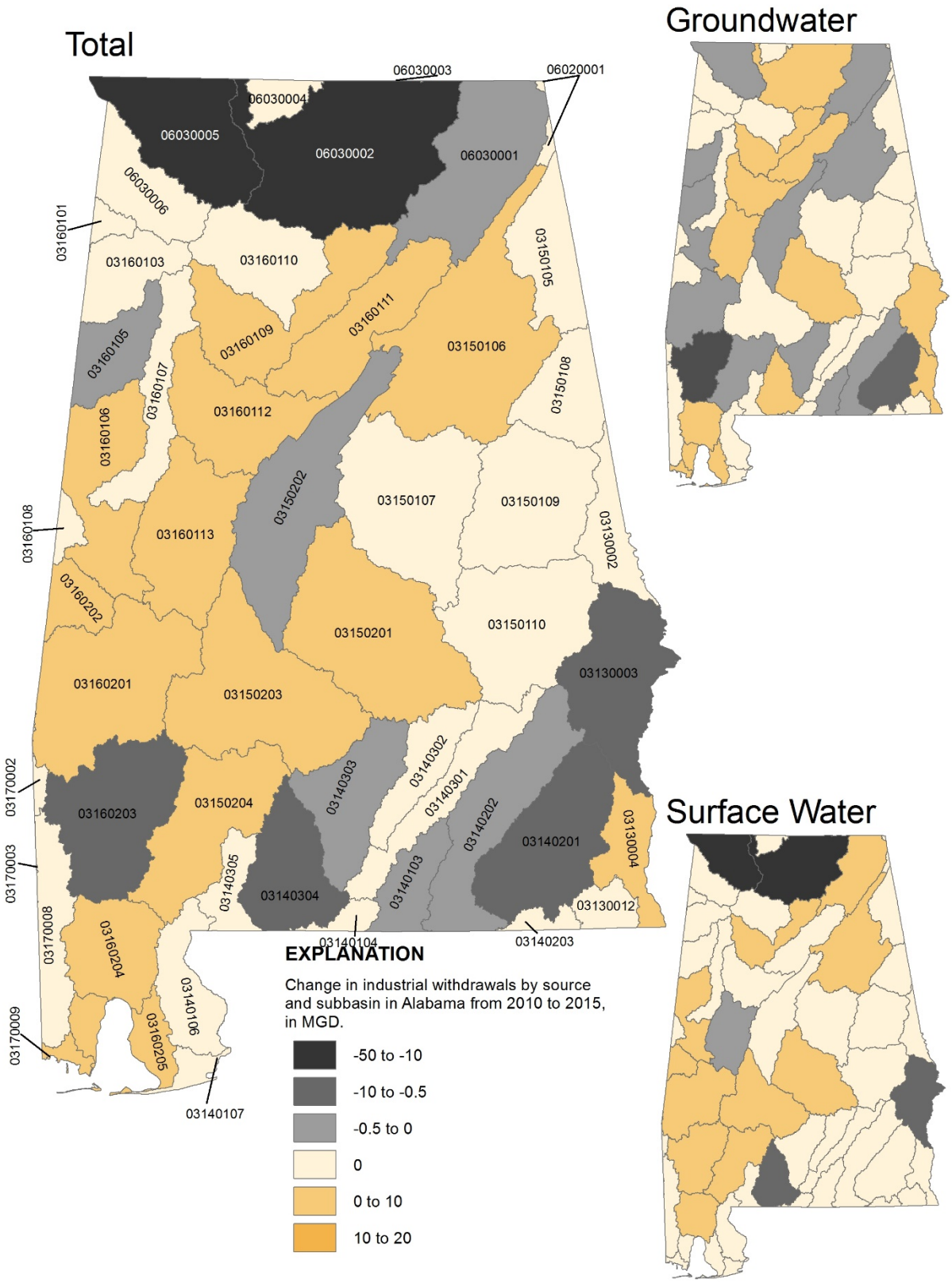


Table 69. Change in industrial withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	2.00	31.13	33.13	1.83	32.97	34.80	-0.17	1.84	1.67
BALDWIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BARBOUR	1.57	0.00	1.57	1.50	0.00	1.50	-0.07	0.00	-0.07
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	0.30	0.00	0.30	0.19	0.00	0.19	-0.11	0.00	-0.11
CALHOUN	0.96	0.00	0.96	1.15	0.00	1.15	0.19	0.00	0.19
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.35	0.00	0.35	0.39	0.00	0.39	0.04	0.00	0.04
CHOCTAW	0.00	40.76	40.76	0.00	46.61	46.61	0.00	5.85	5.85
CLARKE	0.00	20.22	20.22	0.00	22.14	22.14	0.00	1.92	1.92
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	2.22	0.00	2.22	1.74	0.00	1.74	-0.48	0.00	-0.48
COLBERT	0.22	69.54	69.76	0.00	29.70	29.70	-0.22	-39.84	-40.06
CONECUH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COOSA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVINGTON	0.05	0.00	0.05	0.00	0.00	0.00	-0.05	0.00	-0.05
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.43	1.84	2.27	0.73	2.43	3.17	0.30	0.59	0.90
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	0.14	32.19	32.33	0.24	30.66	30.90	0.10	-1.53	-1.43
DEKALB	0.77	0.00	0.77	0.57	0.00	0.57	-0.20	0.00	-0.20
ELMORE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESCAMBIA	1.40	33.66	35.06	1.46	32.54	34.01	0.06	-1.12	-1.05
ETOWAH	0.00	9.21	9.21	0.00	8.30	8.30	0.00	-0.91	-0.91
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	0.03	0.00	0.03	0.02	0.00	0.02	-0.01	0.00	-0.01
HALE	0.02	0.00	0.02	0.02	0.00	0.02	0.00	0.00	0.00
HENRY	0.54	0.00	0.54	0.26	0.00	0.26	-0.28	0.00	-0.28

Table 69. Change in industrial withdrawals by source and county in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	0.17	0.00	0.17	0.30	0.00	0.30	0.13	0.00	0.13
JACKSON	0.00	8.91	8.91	0.00	9.10	9.10	0.00	0.19	0.19
JEFFERSON	0.50	0.00	0.50	0.87	0.00	0.87	0.37	0.00	0.37
LAMAR	0.11	0.00	0.11	0.10	0.00	0.10	-0.01	0.00	-0.01
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	60.11	60.11	0.00	0.00	0.00	0.00	-60.11	-60.11
LEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LOWNDES	0.00	0.00	0.00	4.24	0.00	4.24	4.24	0.00	4.24
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	0.00	0.73	0.73	0.00	0.55	0.55	0.00	-0.18	-0.18
MARENGO	0.20	18.52	18.72	0.00	18.44	18.44	-0.20	-0.08	-0.28
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.38	0.00	0.38	0.08	0.00	0.08	-0.30	0.00	-0.30
MOBILE	6.90	0.70	7.60	6.49	3.61	10.10	-0.41	2.91	2.50
MONROE	0.13	46.42	46.55	0.12	49.31	49.44	-0.01	2.89	2.89
MONTGOMERY	0.04	0.01	0.05	1.78	0.03	1.81	1.74	0.02	1.76
MORGAN	0.00	78.02	78.02	0.01	88.33	88.34	0.01	10.31	10.32
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	0.92	27.63	28.55	1.44	26.00	27.44	0.52	-1.63	-1.11
SHELBY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STCLAIR	0.00	4.45	4.45	0.00	6.10	6.10	0.00	1.65	1.65
SUMTER	0.00	2.03	2.03	0.00	4.57	4.57	0.00	2.54	2.54
TALLADEGA	0.00	24.67	24.67	0.00	26.59	26.59	0.00	1.92	1.92
TALLAPOOSA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TUSCALOOSA	0.74	1.04	1.78	1.53	0.67	2.20	0.79	-0.37	0.42
WALKER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WASHINGTON	6.16	4.87	11.03	5.83	3.42	9.25	-0.33	-1.45	-1.78
WILCOX	0.00	18.31	18.31	0.00	19.67	19.67	0.00	1.36	1.36
WINSTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**27.26**	**534.97**	**562.23**	**32.91**	**461.75**	**494.67**	**5.65**	**-73.22**	**-67.56**

Table 70. Change in industrial withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
Apalachicola									
03130002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03130003	2.49	27.63	30.12	2.94	26.00	28.95	0.45	-1.63	-1.17
03130004	0.44	0.00	0.44	0.56	0.00	0.56	0.12	0.00	0.12
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*2.93*	*27.63*	*30.56*	*3.51*	*26.00*	*29.51*	*0.58*	*-1.63*	*-1.05*
Chocawhatchee-Escambia									
03140103	0.05	0.00	0.05	0.00	0.00	0.00	-0.05	0.00	-0.05
03140104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140201	1.35	0.00	1.35	0.60	0.00	0.60	-0.75	0.00	-0.75
03140202	1.14	0.00	1.14	1.14	0.00	1.14	0.00	0.00	0.00
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140303	0.30	0.00	0.30	0.19	0.00	0.19	-0.11	0.00	-0.11
03140304	1.40	33.66	35.06	1.46	32.54	34.01	0.06	-1.12	-1.05
03140305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*4.24*	*33.66*	*37.90*	*3.40*	*32.54*	*35.94*	*-0.84*	*-1.12*	*-1.96*
Alabama									
03150105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150106	1.73	38.33	40.06	1.72	40.98	42.71	-0.01	2.65	2.65
03150107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150201	2.53	63.33	65.86	8.47	63.66	72.14	5.94	0.33	6.28
03150202	0.16	0.00	0.16	0.16	0.00	0.16	0.00	0.00	0.00
03150203	0.00	18.31	18.31	0.00	19.67	19.67	0.00	1.36	1.36
03150204	0.13	46.42	46.55	0.12	49.31	49.44	-0.01	2.90	2.89
Subtotal	*4.55*	*166.39*	*170.94*	*10.48*	*173.63*	*184.11*	*5.93*	*7.24*	*13.17*
Mobile-Tombigbee									
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 70. Change in industrial withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.11	0.00	0.11	0.10	0.00	0.10	-0.01	0.00	-0.01
03160106	0.01	0.00	0.01	0.01	0.58	0.59	0.00	0.58	0.58
03160107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160109	0.43	1.84	2.27	0.73	2.43	3.17	0.30	0.59	0.90
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	0.34	0.00	0.34	0.71	0.00	0.71	0.37	0.00	0.37
03160112	0.20	0.00	0.20	0.20	0.00	0.20	0.00	0.00	0.00
03160113	0.59	1.04	1.63	1.37	0.67	2.04	0.78	-0.37	0.41
03160201	0.20	60.20	60.40	0.00	67.93	67.93	-0.20	7.73	7.53
03160202	0.00	1.11	1.11	0.00	1.12	1.12	0.00	0.01	0.01
03160203	7.08	25.09	32.17	5.83	25.56	31.39	-1.25	0.47	-0.78
03160204	4.96	0.70	5.66	5.43	3.61	9.04	0.47	2.91	3.38
03160205	1.02	0.00	1.02	1.06	0.00	1.06	0.04	0.00	0.04
Subtotal	*14.94*	*89.98*	*104.92*	*15.44*	*101.91*	*117.35*	*0.50*	*11.93*	*12.43*
Pascagoula									
03170002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee									
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk									
06030001	0.38	8.91	9.29	0.08	9.10	9.18	-0.31	0.19	-0.12
06030002	0.00	138.86	138.86	0.01	88.88	88.89	0.01	-49.98	-49.97
06030003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06030005	0.22	69.54	69.76	0.00	29.70	29.70	-0.22	-39.84	-40.06
06030006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.60*	*217.31*	*217.91*	*0.09*	*127.68*	*127.76*	*-0.52*	*-89.63*	*-90.15*
Total	**27.26**	**534.97**	**562.23**	**32.91**	**461.76**	**494.67**	**5.65**	**-73.21**	**-67.56**

Mining Withdrawals

The geographic distribution of the comparison of mining withdrawals from 2010 to 2015 is shown in table 71. Total mining withdrawals increased 5 percent from 21 MGD in 2010 to 22 MGD in 2015. The counties with the largest increases in mining withdrawals from 2010 to 2015 are Washington (3 MGD), Elmore (2 MGD) and Autauga (2 MGD) Counties. The counties with the largest decreases in mining water withdrawals from 2010 to 2015 are St. Clair (-2 MGD) and Limestone Counties (-1 MGD; figure 58). There was not a subbasin analysis done for the self-supplied residential sector for 2010, therefore there is no comparison of subbasins from 2010 to 2015.

Surface-water mining withdrawals declined 25 percent from 8 MGD in 2010 to 6 MGD in 2015. The counties with the largest increases in surface-water aquaculture withdrawals are Elmore (0.77 MGD), and Autauga (0.58 MGD) Counties. The counties with the largest decreases in surface-water aquaculture withdrawals from 2010 to 2015 are Limestone (-1 MGD) Fayette (-0.79 MGD) and Colbert (-0.73 MGD) Counties.

Groundwater aquaculture withdrawals increased 23 percent from 13 MGD in 2010 to 16 MGD in 2015. The counties with the largest increases in groundwater aquaculture withdrawals from 2010 to 2015 are Washington (3 MGD) Elmore (1.63 MGD) and Autauga (1.31 MGD) Counties. The counties with the largest decreases in groundwater mining withdrawals are St. Clair (-2 MGD), Talladega (-0.42 MGD), and Bibb (-0.35 MGD) Counties.

Figure 58. Map of the change in mining by source and county in Alabama from 2010 to 2015, in MGD.

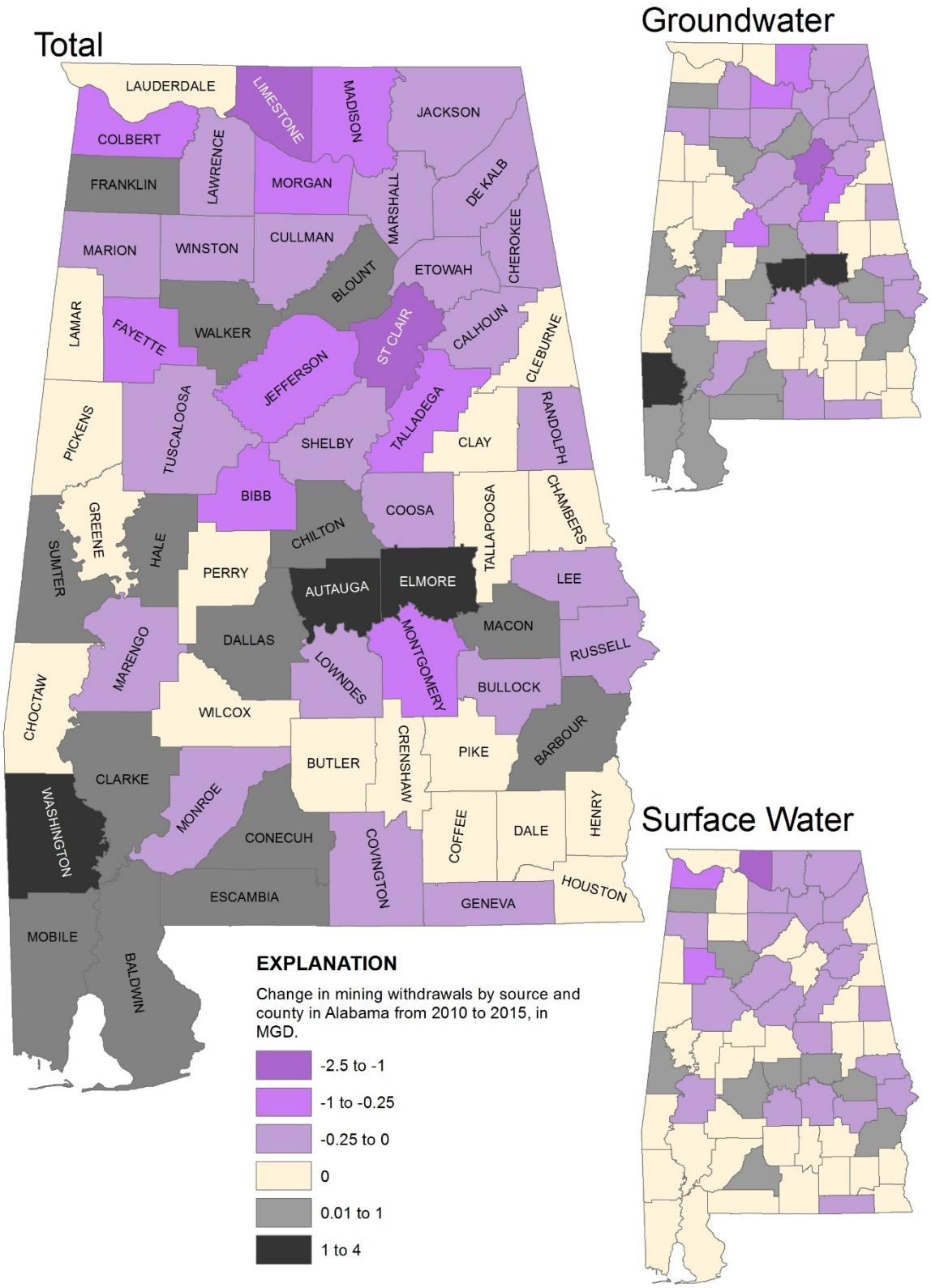


Table 71. Change in mining withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
AUTAUGA	0.09	0.04	0.13	1.40	0.62	2.02	1.31	0.58	1.89
BALDWIN	0.21	0.00	0.21	0.22	0.00	0.22	0.01	0.00	0.01
BARBOUR	0.13	0.06	0.19	0.30	0.14	0.44	0.17	0.08	0.25
BIBB	0.36	0.00	0.36	0.01	0.00	0.01	-0.35	0.00	-0.35
BLOUNT	0.12	0.00	0.12	0.19	0.00	0.19	0.07	0.00	0.07
BULLOCK	0.04	0.02	0.06	0.00	0.00	0.00	-0.04	-0.02	-0.06
BUTLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALHOUN	0.07	0.03	0.10	0.00	0.00	0.00	-0.07	-0.03	-0.10
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.01	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	-0.01
CHILTON	0.01	0.00	0.01	0.06	0.00	0.06	0.05	0.00	0.05
CHOCTAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLARKE	0.35	0.00	0.35	0.86	0.00	0.86	0.51	0.00	0.51
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLBERT	0.00	0.73	0.73	0.00	0.00	0.00	0.00	-0.73	-0.73
CONECUH	0.00	0.00	0.00	0.04	0.02	0.06	0.04	0.02	0.06
COOSA	0.08	0.04	0.12	0.00	0.00	0.00	-0.08	-0.04	-0.12
COVINGTON	0.05	0.00	0.05	0.00	0.00	0.00	-0.05	0.00	-0.05
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.01	0.02	0.03	0.00	0.00	0.00	-0.01	-0.02	-0.03
DALE	0.05	0.03	0.08	0.05	0.03	0.08	0.00	0.00	0.00
DALLAS	0.27	0.12	0.39	0.50	0.22	0.72	0.23	0.10	0.33
DEKALB	0.07	0.03	0.10	0.00	0.00	0.00	-0.07	-0.03	-0.10
ELMORE	0.32	0.15	0.47	1.95	0.92	2.87	1.63	0.77	2.40
ESCAMBIA	0.41	0.00	0.41	1.15	0.00	1.15	0.74	0.00	0.74
ETOWAH	0.24	0.11	0.35	0.22	0.10	0.32	-0.02	-0.01	-0.03
FAYETTE	0.00	1.10	1.10	0.00	0.31	0.31	0.00	-0.79	-0.79
FRANKLIN	0.31	0.14	0.45	0.34	0.15	0.49	0.03	0.01	0.04
GENEVA	0.07	0.03	0.10	0.05	0.02	0.07	-0.02	-0.01	-0.03
GREENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HALE	0.11	0.00	0.11	0.12	0.00	0.12	0.01	0.00	0.01
HENRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 71. Change in mining withdrawals by source and county in Alabama from 2010 to 2015, in MGD – Continued.

County Name	2010 GW	2010 SW	2010 Total	2015 GW	2015 SW	2015 Total	GW Diff 2010 to 2015	SW Diff 2010 to 2015	Total Diff 2010 to 2015
HOUSTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JACKSON	0.06	0.03	0.09	0.00	0.00	0.00	-0.06	-0.03	-0.09
JEFFERSON	0.85	0.65	1.50	0.62	0.47	1.09	-0.23	-0.18	-0.41
LAMAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.01	0.00	0.01	0.00	0.00	0.00	-0.01	0.00	-0.01
LEE	0.16	0.07	0.23	0.00	0.00	0.00	-0.16	-0.07	-0.23
LIMESTONE	0.00	1.04	1.04	0.00	0.00	0.00	0.00	-1.04	-1.04
LOWNDES	0.31	0.15	0.46	0.16	0.08	0.24	-0.15	-0.07	-0.22
MACON	0.40	0.20	0.60	1.05	0.52	1.57	0.65	0.32	0.97
MADISON	0.31	0.14	0.45	0.00	0.00	0.00	-0.31	-0.14	-0.45
MARENGO	0.16	0.08	0.24	0.02	0.01	0.03	-0.14	-0.07	-0.21
MARION	0.03	0.06	0.09	0.00	0.00	0.00	-0.03	-0.06	-0.09
MARSHALL	0.12	0.06	0.18	0.00	0.00	0.00	-0.12	-0.06	-0.18
MOBILE	0.16	0.00	0.16	0.22	0.00	0.22	0.06	0.00	0.06
MONROE	0.30	0.00	0.30	0.15	0.00	0.15	-0.15	0.00	-0.15
MONTGOMERY	0.98	0.46	1.44	0.80	0.38	1.18	-0.18	-0.08	-0.26
MORGAN	0.26	0.12	0.38	0.00	0.00	0.00	-0.26	-0.12	-0.38
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.06	0.03	0.09	0.00	0.00	0.00	-0.06	-0.03	-0.09
RUSSELL	0.39	0.19	0.58	0.34	0.17	0.51	-0.05	-0.02	-0.07
SHELBY	0.41	0.20	0.61	0.32	0.16	0.48	-0.09	-0.04	-0.13
STCLAIR	2.71	0.00	2.71	0.51	0.00	0.51	-2.20	0.00	-2.20
SUMTER	0.78	0.36	1.14	1.06	0.49	1.55	0.28	0.13	0.41
TALLADEGA	0.42	0.20	0.62	0.00	0.00	0.00	-0.42	-0.20	-0.62
TALLAPOOSA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TUSCALOOSA	0.00	1.09	1.09	0.00	0.85	0.85	0.00	-0.24	-0.24
WALKER	0.12	0.37	0.49	0.13	0.41	0.54	0.01	0.04	0.05
WASHINGTON	0.11	0.00	0.11	3.22	0.00	3.22	3.11	0.00	3.11
WILCOX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WINSTON	0.11	0.00	0.11	0.05	0.00	0.05	-0.06	0.00	-0.06
Total	**12.60**	**8.15**	**20.75**	**16.11**	**6.07**	**22.18**	**3.51**	**-2.08**	**1.43**

Thermoelectric-Power Water Withdrawals

The geographic distribution of the comparison of thermoelectric-power withdrawals from 2010 to 2015 is shown in tables 72 and 73. Thermoelectric-power withdrawals decreased 20 percent from 8,257 MGD in 2010 to 6,624 MGD in 2015. This was driven primarily by the closure of two major TVA coal-fired generating plants, the Widows Creek facility in Jackson County and the Colbert Fossil Plant in Colbert County. These two facility closures account for the majority of the almost 2 billion gallons per day reduction in water withdrawals.

The counties with the largest increases in thermoelectric-power withdrawals are Limestone (126 MGD) and Greene (23 MGD) Counties. The counties with the largest decreases in thermoelectric-power withdrawals are Jackson (-692 MGD), Colbert (-298 MGD), Mobile (-296 MGD), and Walker (-258 MGD) Counties (figure 59). The subbasins with the largest increases in thermoelectric-power withdrawals are the Wheeler (06030002; 122 MGD) and the Lower Black Warrior (03160113; 23 MGD) subbasins. The subbasins with the largest decreases in thermoelectric-power withdrawals are the Guntersville Lake (06030001; -692 MGD), the Pickwick (06030005; -298 MGD), the Mobile-Tensaw (03160204; -296 MGD), the Mulberry Fork (03160109; -258 MGD), and the Lower Coosa (03150107; -204 MGD) subbasins (figure 60). All thermoelectric withdrawals were from surface water.

Figure 59. Map of the change in thermoelectric-power withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

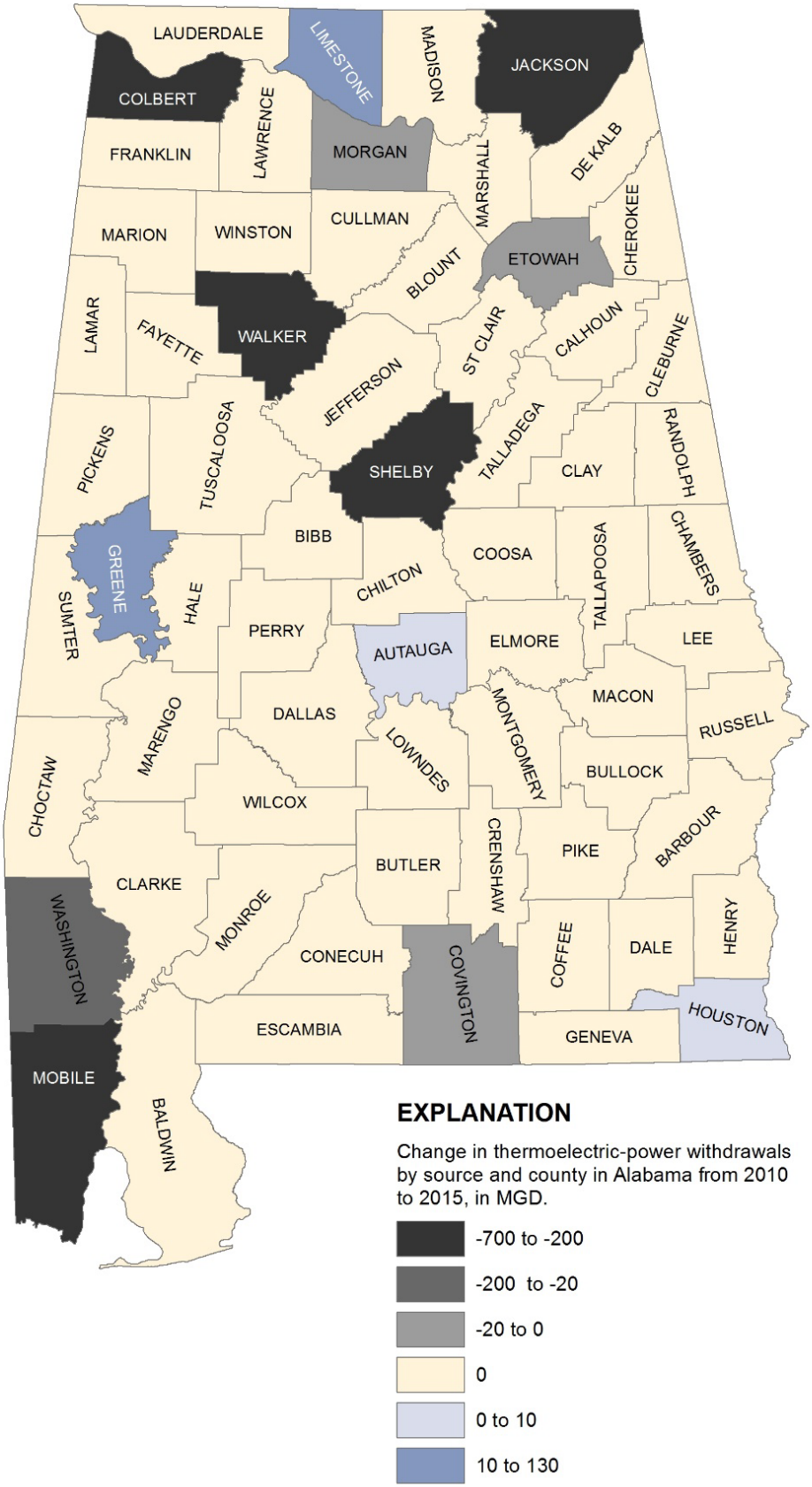


Figure 60. Map of the change in thermoelectric-power withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

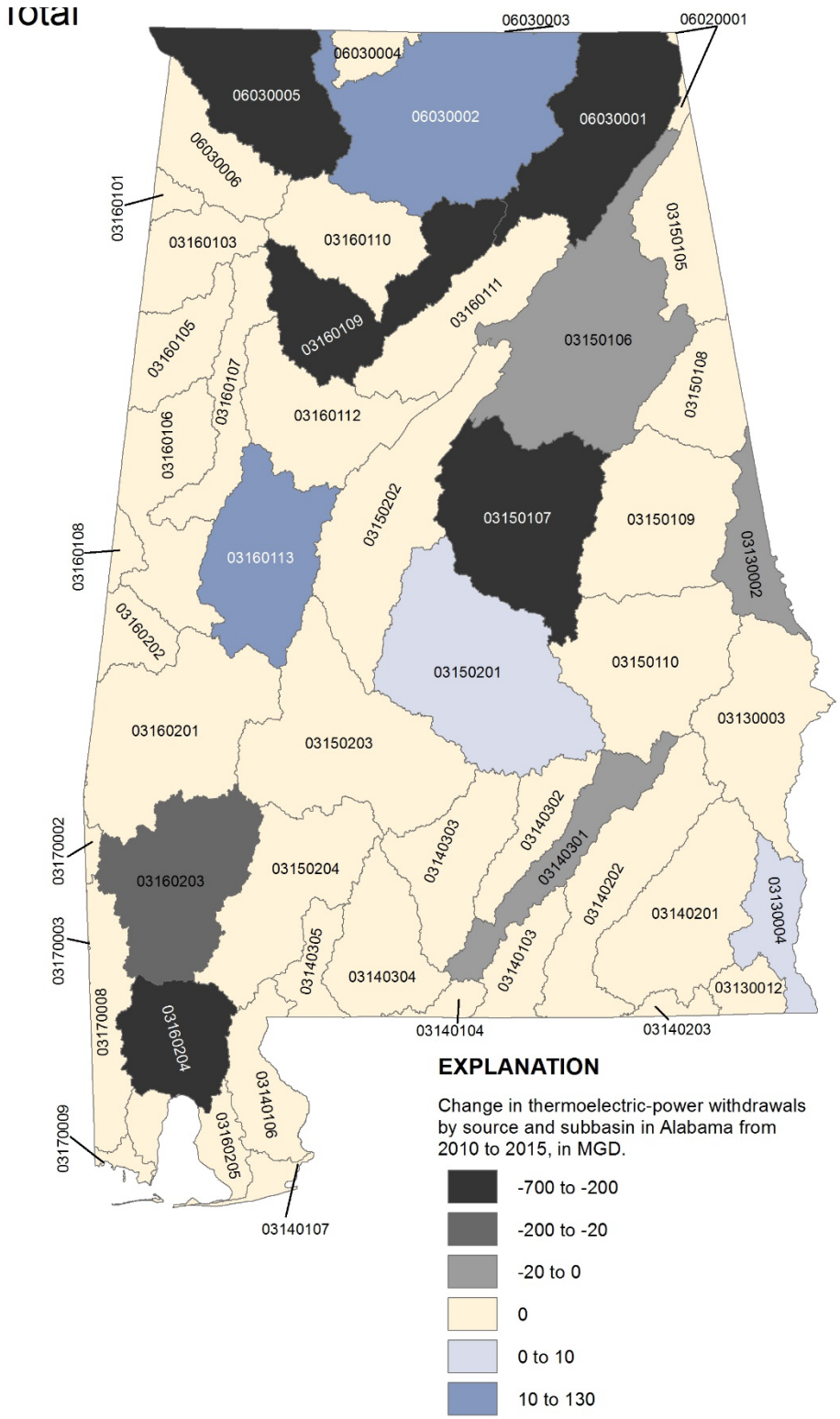


Table 72. Change in thermoelectric-power withdrawals by source and county in Alabama from 2010 to 2015, in MGD.

County Name	2010 SW	2015 SW	SW Diff	County Name	2010 SW	2015 SW	SW Diff
AUTAUGA	5.83	11.86	6.03	HOUSTON	89.30	99.08	9.78
BALDWIN	0.00	0.00	0.00	JACKSON	1,044.42	352.22	-692.20
BARBOUR	0.00	0.00	0.00	JEFFERSON	0.00	0.00	0.00
BIBB	0.00	0.00	0.00	LAMAR	0.00	0.00	0.00
BLOUNT	0.00	0.00	0.00	LAUDERDALE	0.00	0.00	0.00
BULLOCK	0.00	0.00	0.00	LAWRENCE	0.00	0.00	0.00
BUTLER	0.00	0.00	0.00	LEE	0.00	0.00	0.00
CALHOUN	0.00	0.00	0.00	LIMESTONE	2,724.37	2,850.13	125.76
CHAMBERS	0.00	0.00	0.00	LOWNDES	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	MACON	0.00	0.00	0.00
CHILTON	0.00	0.00	0.00	MADISON	0.00	0.00	0.00
CHOCTAW	0.00	0.00	0.00	MARENGO	0.00	0.00	0.00
CLARKE	0.00	0.00	0.00	MARION	0.00	0.00	0.00
CLAY	0.00	0.00	0.00	MARSHALL	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	MOBILE	989.29	693.70	-295.59
COFFEE	0.00	0.00	0.00	MONROE	0.00	0.00	0.00
COLBERT	1,262.30	963.99	-298.31	MONTGOMERY	0.00	0.00	0.00
CONECUH	0.00	0.00	0.00	MORGAN	6.43	2.68	-3.75
COOSA	0.00	0.00	0.00	PERRY	0.00	0.00	0.00
COVINGTON	1.74	1.15	-0.59	PICKENS	0.00	0.00	0.00
CRENSHAW	0.00	0.00	0.00	PIKE	0.00	0.00	0.00
CULLMAN	0.00	0.00	0.00	RANDOLPH	0.00	0.00	0.00
DALE	0.00	0.00	0.00	RUSSELL	0.00	0.00	0.00
DALLAS	0.00	0.00	0.00	SHELBY	666.25	462.22	-204.03
DEKALB	0.00	0.00	0.00	STCLAIR	0.00	0.00	0.00
ELMORE	0.00	0.00	0.00	SUMTER	0.00	0.00	0.00
ESCAMBIA	0.00	0.00	0.00	TALLADEGA	0.00	0.00	0.00
ETOWAH	114.66	105.52	-9.14	TALLAPOOSA	0.00	0.00	0.00
FAYETTE	0.00	0.00	0.00	TUSCALOOSA	0.00	0.00	0.00
FRANKLIN	0.00	0.00	0.00	WALKER	922.15	664.34	-257.81
GENEVA	0.00	0.00	0.00	WASHINGTON	75.54	39.94	-35.60
GREENE	354.71	377.42	22.71	WILCOX	0.00	0.00	0.00
HALE	0.00	0.00	0.00	WINSTON	0.00	0.00	0.00
HENRY	0.00	0.00	0.00	**TOTAL**	**8,256.99**	**6,624.25**	**-1,632.74**

Table 73. Change in thermoelectric-power withdrawals by source and subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	2010 SW	2015 SW	SW Diff 2010 to 2015
Apalachicola			
03130002	0.17	0.00	-0.17
03130003	0.00	0.00	0.00
03130004	89.30	99.08	9.78
03130012	0.00	0.00	0.00
Subtotal	*89.47*	*99.08*	*9.61*
Chocawhatchee-Escambia			
03140103	0.00	0.00	0.00
03140104	0.00	0.00	0.00
03140106	0.00	0.00	0.00
03140107	0.00	0.00	0.00
03140201	0.00	0.00	0.00
03140202	0.00	0.00	0.00
03140203	0.00	0.00	0.00
03140301	1.74	1.15	-0.59
03140302	0.00	0.00	0.00
03140303	0.00	0.00	0.00
03140304	0.00	0.00	0.00
03140305	0.00	0.24	0.24
Subtotal	*1.74*	*1.39*	*-0.35*
Alabama			
03150105	0.00	0.00	0.00
03150106	114.66	105.52	-9.14
03150107	666.25	462.22	-204.03
03150108	0.00	0.00	0.00
03150109	0.00	0.00	0.00
03150110	0.00	0.00	0.00
03150201	5.83	11.86	6.03
03150202	0.00	0.00	0.00
03150203	0.00	0.00	0.00
03150204	0.00	0.00	0.00
Subtotal	*786.74*	*579.60*	*-207.14*
Mobile-Tombigbee			
03160101	0.04	0.07	0.03
03160103	0.00	0.00	0.00
03160105	0.00	0.00	0.00
03160106	0.00	0.00	0.00
03160107	0.00	0.00	0.00
03160108	0.00	0.00	0.00
03160109	922.15	664.34	-257.81
03160110	0.00	0.00	0.00
03160111	0.00	0.00	0.00
03160112	0.00	0.00	0.00
03160113	354.71	377.42	22.71
03160201	0.00	0.00	0.00
03160202	0.00	0.00	0.00
03160203	75.54	39.94	-35.60
03160204	989.29	693.70	-295.59
03160205	0.00	0.00	0.00
Subtotal	*2,341.73*	*1,775.47*	*-566.26*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.00	0.00	0.00
03170009	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	1,044.42	352.22	-692.20
06030002	2,730.80	2,852.82	122.02
06030003	0.00	0.00	0.00
06030004	0.00	0.00	0.00
06030005	1,262.30	963.99	-298.31
06030006	0.00	0.00	0.00
Subtotal	*5,037.52*	*4,169.03*	*-868.49*
Total	**8,257.20**	**6,624.57**	**-1,632.63**

Summary of Withdrawals

Water withdrawals by source of supply and eight sectors of use— public supply, self-supplied residential, irrigation, livestock, aquaculture, self-supplied industrial, mining, and thermoelectric power— were estimated for the State of Alabama for 2015. Site-specific data were used as a basis for estimates for public supply, public-supplied deliveries, self-supplied industrial, mining, thermoelectric power, and golf course, nursery, and sod irrigation. Aggregated county-level data were used as a basis for estimates for self-supplied residential, crop irrigation, livestock, and aquaculture.

Total water withdrawals were approximately 8,239 MGD during 2015. Surface water was the source for approximately 94 percent of the total withdrawals (7,743 MGD) and the remaining 6 percent (496 MGD) was from groundwater. More surface water than groundwater was used in all sectors except aquaculture, mining, and self-supplied residential. Estimated water withdrawals by sector and in descending order are thermoelectric power, 6,624 MGD; public supply, 762 MGD; self-supplied industrial, 495 MGD; irrigation, 223 MGD; aquaculture, 49 MGD; self-supplied residential, 37 MGD; livestock, 26 MGD; and mining, 22 MGD.

A per capita comparison of the total water withdrawals shows that for water used to generate electricity, support industrial and agricultural activities, and provide drinking water (8,239 MGD), per capita use was 1,696 gal/day for the estimated 4.86 million residents of Alabama. For the public-supplied water delivered to residential, industrial and commercial sectors, and public uses and losses (762 MGD), per capita use was 176 gal/day for the 4.32 million residents served by public supply. for the public-supplied residential deliveries (321 MGD), per capita use was 74 gal/day; and for self-supplied residential (37 MGD), per capita use was 68 gal/day for the 0.54 million residents with private wells.

Thermoelectric-power plants located in all but two of the seven hydrologic subregions in Alabama—the Pascagoula and the Tennessee-Hiwassee—withdrew 80 percent (6,624 MGD) of the total water withdrawn to generate 128,000 net gigawatt-hours of energy. Surface water provided all of the water. Approximately 98 percent of the thermoelectric-power withdrawals were used for once-through cooling.

Public-supply withdrawals were 9 percent of total freshwater withdrawals and 47 percent of total withdrawals for all sectors excluding thermoelectric power. Surface-water sources provided 64 percent of the water, and groundwater provided the remaining 36 percent. Public supply accounted for 55 percent of the total groundwater withdrawals in the State. Public-supply deliveries to residential customers were 42 percent of total public-supply withdrawals, or about 321 MGD; combined industrial and commercial deliveries were 38 percent, or about 288 MGD; and public use and losses accounted for the remaining 20 percent, or about 153 MGD. Madison, Mobile, Jefferson, Blount, and Walker Counties accounted for about 37 percent of public-supply withdrawals and 34 percent of the population served.

Total industrial water use was 783 MGD in 2015. Self-supplied industrial withdrawals were 6 percent of total withdrawals (562 MGD) and 31 percent of total withdrawals excluding thermoelectric power. Surface water was the source for 93 percent of the self-supplied industrial water withdrawals. Statewide, combined public-supplied industrial and commercial deliveries were 288 MGD. Pulp, paper and paperboard mills accounted for the largest self-supplied industrial

water withdrawals (295 MGD). The largest withdrawals occurred in Morgan, Monroe, and Choctaw Counties with withdrawals that were more than 40 MGD for each county. Withdrawals in these counties were 37 percent of the total self-supplied industrial withdrawals.

Irrigation withdrawals were about 3 percent of total withdrawals and about 14 percent of total withdrawals for all sectors excluding thermoelectric power. More than half of the water, 56 percent, was from surface water. Baldwin County withdrew 26 percent (58 MGD) of the irrigation water, primarily for nursery stock and sod. Most of that water (47 MGD) was from groundwater. About 188,970 acres of crops (food and feed crops, nursery stock and sod) and golf courses were irrigated in 2015. Nursery stock and sod accounted for 15 percent of the irrigated crop acreage (25,409 of the 166,638 acres) statewide. Golf courses applied about 43 MGD to 22,300 acres in 2015. The statewide average application rate was 1.32 acre-feet per acre per year. The highest application rate, 5.29 acre-feet per acre per year, was for nursery stock.

Aquaculture withdrawals were less than 1 percent (49 MGD) of the total freshwater withdrawals and were about 3 percent of the total freshwater withdrawals excluding thermoelectric power. Groundwater provided more than half (55 percent) of the water used. All aquaculture withdrawals were considered fresh in 2015, although some ponds were filled with low-to-high salinity groundwater.

Self-supplied residential withdrawals also were less than 1 percent (37 MGD) of total water withdrawals, but about 2 percent of total water withdrawals for all sectors excluding thermoelectric power. All of the water withdrawn for self-supplied residential purposes was from groundwater. The largest self-supplied residential withdrawals were in Baldwin and Mobile Counties. These two counties represented about 13 percent of the total self-supplied residential withdrawals in Alabama and 12 percent of the self-supplied residential population.

Livestock withdrawals were less than 1 percent (26 MGD) of the total freshwater withdrawals and were approximately 2 percent of the total freshwater withdrawals excluding thermoelectric power. Surface water was the source for more than half (56 percent) of the water used.

Similarly, mining withdrawals were less than 1 percent of total water withdrawals (22 MGD) and about 1 percent of total water withdrawals for all sectors excluding thermoelectric power. Groundwater was the source of about 73 percent of mining withdrawals. All mining withdrawals were considered freshwater in 2010, although some low-salinity groundwater has been tapped in parts of the State.

Water withdrawals were compiled by hydrologic subbasin for all sectors. The Middle Tennessee–Elk subregion accounted for approximately 55 percent (4,520 MGD) of the estimated total withdrawals by subregion. About 92 percent of that water use was for thermoelectric power, all from surface water. Excluding thermoelectric power, the Middle Tennessee–Elk subregion accounted for 22 percent of the water withdrawals statewide. About 51 percent of the nonpower withdrawals in the Middle Tennessee–Elk subbasin were for public-supply withdrawals.

Total water withdrawals decreased 18 percent from 2010 to 2015 (from 9,998 MGD to 8,239 MGD, respectively). Surface-water withdrawals were about 19 percent less in 2015 than in 2010 (9,511 MGD to 7,743 MGD, respectively). Groundwater withdrawals increased about 2

percent from 2010 to 2015 (from 487 MGD to 496 MGD, respectively). By sector, withdrawals for:

- Public supply decreased 9 percent from 833 MGD in 2010 to 762 MGD in 2015;
- Self-supplied residential decreased about 1 percent from 38 MGD in 2015 to 37 MGD in 2015;
- Irrigation increased about 11 percent from 202 MGD in 2010 to 223 MGD in 2015. Over the same period, total irrigated acreage increased about 10 percent from 169,240 acres in 2010 to 188,970 acres in 2015;
- Aquaculture decreased 16 percent from 59 MGD in 2010 to 49 MGD in 2015;
- Livestock decreased 1 percent from 26.5 MGD in 2010 to 26.2 MGD in 2015;
- Self- supplied industrial decreased 12 percent from 562 MGD in 2010 to 495 MGD in 2015;
- Mining increased 7 percent from 21 MGD in 2010 to 22 MGD in 2015; and
- Thermoelectric power decreased 20 percent from 8,257 MGD in 2010 to 6,624 MGD in 2015.

Data Compilation, Sources of Information, and Methodology for Returns

Another part of the OWR's water assessment effort was to develop water return estimates for each county and subbasin. For the purposes of this report, it was assumed that all agriculture water withdrawals were completely consumptive and that no returns occurred. Several factors were considered in the assumption that this water use sector was 100 percent consumptive. These included: the cost and inefficiency of over irrigation, the variation of the return based on crop type and soil conditions, the inability to quantify the amount of returning water, and the fact there is a significant lag time from the application of water until the seepage of any water drains down to a groundwater source where it can be reused.

2015 Water Returns

For 2015, a total of 484 NPDES permitted discharge sites were compiled for the public supply sector, 211 NPDES permitted discharge sites were compiled for the industrial and mining sector, and 21 NPDES permitted discharge sites were compiled for the thermoelectric power sector. The NPDES data was compiled from EPA's DMR Pollutant Loading Tool website, OWR's eWater data management application, and ADEM's online eFile system. Monthly and annual water return estimates were summarized for each county and subbasin for the three subsectors for 2015.

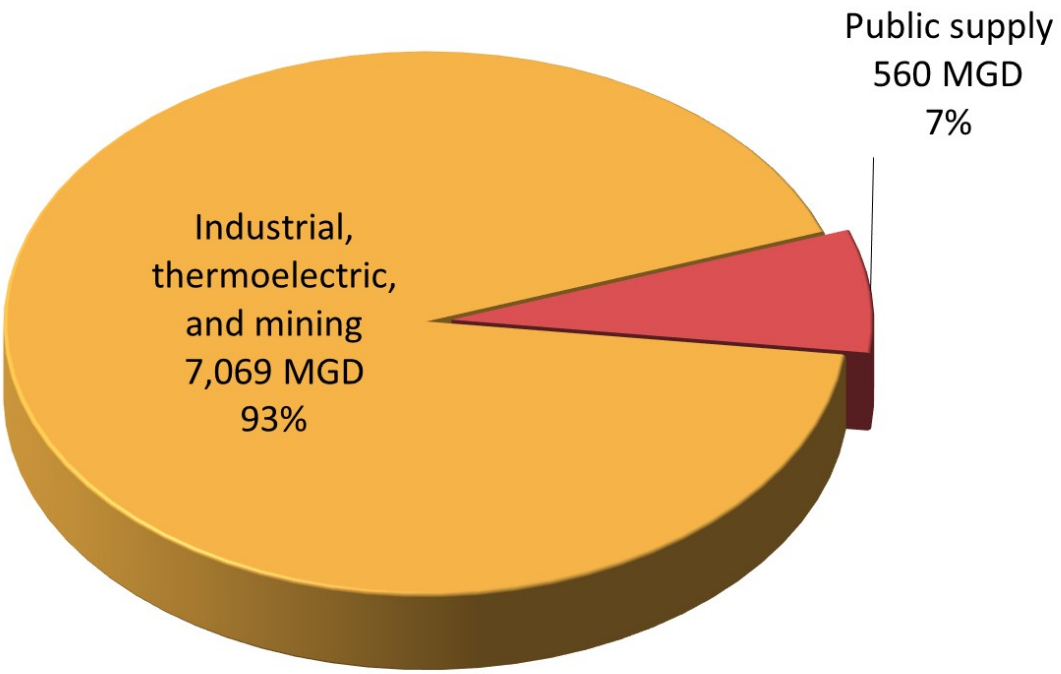
Some monthly return data values were not available and had to be estimated. The annual average was used as a replacement for any missing months for a given permit. Due to lack of the overall availability of mining water returns, only limited mining process return data was included in the industrial, thermoelectric, and mining return dataset.

Water Returns

2015 Total Returns

Total Alabama statewide returns for 2015 were determined from returns for two major sectors; the industrial, thermoelectric-power, and mining sector and the public supply sector. Total returns were estimated to be 7,629 MGD for 2015. Estimates of returns by sector indicate that the industrial, thermoelectric, and mining sector accounted for approximately 96 percent (7,069 MGD) of the total returns for 2015, with the public supply sector accounting for the remaining 7 percent (560 MGD; figure 61). Monthly total returns by county and hydrologic subbasin are listed in tables 74 and 75.

Figure 61. Total returns by sector in Alabama in 2015, in MGD.



The geographic distribution of total returns by county and hydrologic subbasin are shown monthly in tables 74 and 75. The counties with the largest total returns are Limestone (2,847 MGD), Colbert (1,001 MGD), Mobile (757 MGD), and Walker (630 MGD) Counties (figure 62). The subbasins with the largest total returns are the Wheeler Lake (06030002; 3,012 MGD), the Pickwick Lake (06030005; 1,015 MGD), the Mobile-Tensaw (03160204; 752 MGD), and the Mulberry Fork (03160109; 638 MGD) subbasins (figure 63).

Figure 62. Map of total returns by county in Alabama in 2015, in MGD.

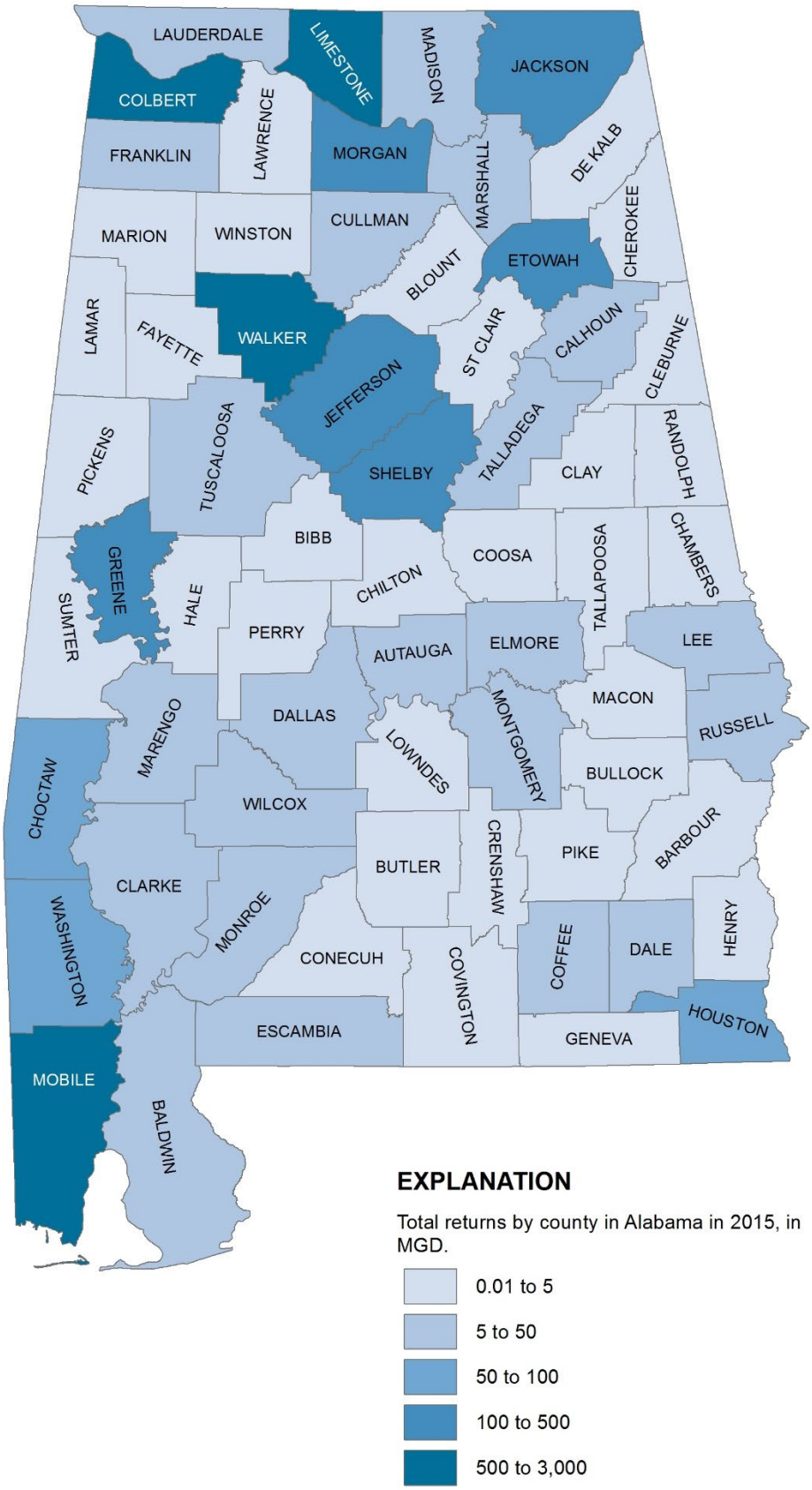


Figure 63. Map of total returns by subbasin in Alabama in 2015, in MGD.

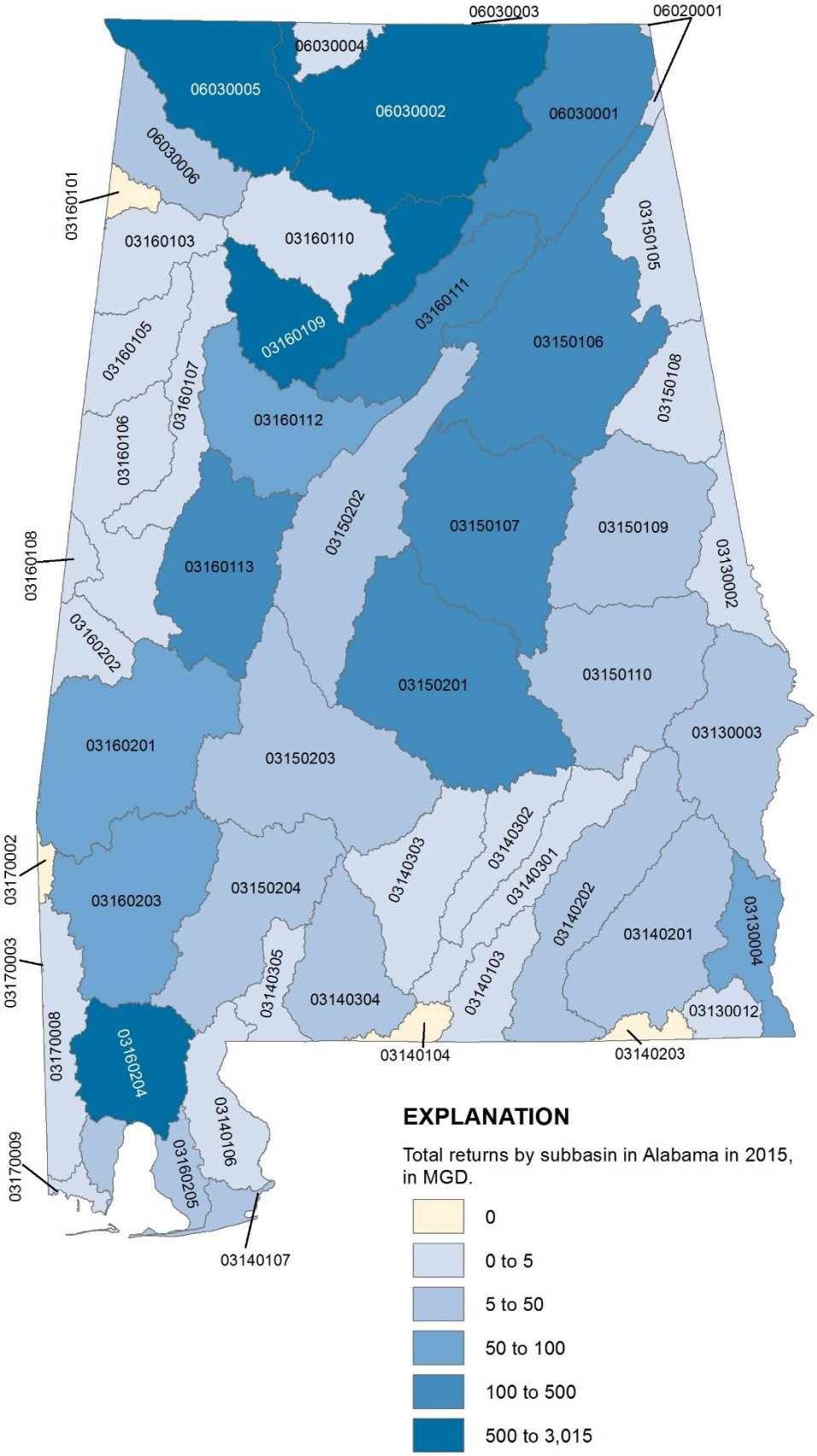


Table 74. Total returns by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	45.06	35.45	36.06	38.92	29.82	33.04	35.68	31.87	25.69	29.96	39.97	40.38	35.16
BALDWIN	12.59	11.34	13.88	16.18	13.16	13.92	14.01	12.45	12.27	12.23	13.13	13.39	13.21
BARBOUR	3.41	3.42	3.48	3.89	3.34	3.41	3.11	3.28	3.46	3.00	4.03	4.80	3.55
BIBB	1.35	0.90	1.26	1.33	0.87	0.84	0.84	0.69	0.60	0.55	0.94	0.99	0.93
BLOUNT	3.87	3.27	4.03	4.46	2.43	2.20	2.12	2.01	1.90	2.00	2.71	3.76	2.90
BULLOCK	1.08	1.10	1.19	1.49	1.24	1.28	1.29	1.25	1.15	1.28	1.37	1.64	1.28
BUTLER	1.89	1.62	1.83	2.05	1.65	1.46	1.39	1.34	1.34	1.35	1.56	2.24	1.64
CALHOUN	22.08	20.35	21.55	29.84	14.42	11.75	10.75	10.13	9.32	9.49	18.65	23.00	16.78
CHAMBERS	3.38	3.89	3.55	4.08	2.97	3.03	3.21	3.39	3.37	2.85	5.12	6.78	3.80
CHEROKEE	0.73	0.60	0.82	1.41	0.69	0.58	0.53	0.56	0.48	0.57	0.75	1.06	0.73
CHILTON	2.94	2.51	2.81	2.92	2.20	2.14	1.85	1.76	1.60	1.65	2.04	2.85	2.27
CHOCTAW	51.85	49.93	51.66	48.44	51.47	41.98	53.19	59.43	49.42	47.61	50.77	55.64	50.95
CLARKE	24.31	20.81	24.14	22.07	22.34	21.93	20.78	20.35	20.70	17.35	18.89	21.77	21.29
CLAY	1.02	1.03	0.98	1.14	0.98	0.95	0.93	0.88	0.88	0.92	1.02	1.22	1.00
CLEBURNE	0.39	0.36	0.37	0.51	0.31	0.26	0.25	0.29	0.25	0.26	0.42	0.50	0.35
COFFEE	4.39	5.09	4.78	6.23	6.06	5.90	5.23	5.06	5.23	4.78	5.83	5.97	5.38
COLBERT	1,101.41	1,082.83	912.32	949.89	1,117.48	992.68	1,117.89	1,120.32	1,017.04	981.28	765.76	847.96	1,000.57
CONECUH	0.87	0.71	0.62	1.27	0.59	0.58	0.36	0.38	0.54	0.41	0.75	0.98	0.67
COOSA	0.18	0.19	0.21	0.21	0.20	0.02	0.07	0.07	0.01	0.10	0.07	0.17	0.13
COVINGTON	3.26	3.13	3.24	3.96	2.66	2.23	2.14	2.25	2.00	2.60	5.23	4.30	3.08
CRENSHAW	0.53	0.76	0.50	0.65	0.40	0.32	0.31	0.30	0.31	0.29	0.46	0.52	0.45
CULLMAN	11.67	9.43	14.53	13.76	6.55	5.62	5.70	6.33	4.49	4.50	8.48	13.01	8.67
DALE	9.83	8.99	8.60	11.76	8.97	8.75	8.03	6.94	7.36	7.16	16.17	14.31	9.74
DALLAS	39.43	37.70	37.10	38.20	29.76	26.66	33.21	27.37	29.57	28.71	27.26	30.08	32.09
DEKALB	4.61	4.36	5.36	5.85	3.79	3.34	3.58	4.56	3.72	3.70	4.56	6.73	4.51
ELMORE	6.65	6.09	6.43	6.53	7.08	6.11	5.94	6.06	5.61	5.52	6.01	7.79	6.32
ESCAMBIA	46.94	35.52	41.63	39.49	37.13	37.11	37.57	36.47	37.43	36.18	30.96	44.46	38.41
ETOWAH	120.56	159.18	150.67	124.92	128.68	130.24	111.99	116.31	126.11	119.60	117.68	129.54	127.96
FAYETTE	1.90	1.96	3.00	3.12	1.73	1.10	1.10	1.01	0.91	1.00	1.91	2.55	1.77
FRANKLIN	7.18	5.97	8.07	7.51	5.66	5.33	4.16	3.40	3.18	3.34	4.46	8.15	5.53
GENEVA	1.45	1.18	1.06	1.43	1.81	1.81	1.71	1.08	1.79	1.47	2.52	2.12	1.62
GREENE	344.44	373.26	156.12	388.70	407.30	407.64	405.93	390.87	405.95	411.50	318.62	414.65	368.75
HALE	1.67	0.53	1.71	0.78	0.27	0.82	0.17	0.11	0.14	1.60	3.16	1.75	1.06
HENRY	1.04	1.10	1.07	1.26	0.97	0.95	0.93	0.94	0.96	0.89	1.33	1.36	1.07

Table 74. Total returns by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	80.59	73.07	82.45	74.67	85.96	82.17	84.30	83.91	82.85	88.04	98.07	84.94	83.42
JACKSON	461.40	459.80	462.27	496.53	517.53	494.72	495.70	495.26	465.86	10.93	12.56	18.41	365.92
JEFFERSON	248.16	219.73	262.49	290.99	158.98	156.66	173.29	165.33	145.30	133.23	164.01	245.73	196.99
LAMAR	4.65	2.32	3.15	3.42	4.51	1.91	0.77	0.88	0.53	0.61	0.92	1.23	2.07
LAUDERDALE	9.80	10.17	21.85	21.57	8.60	16.61	8.24	8.16	6.85	7.19	14.64	22.97	13.06
LAWRENCE	2.78	2.20	3.41	2.77	1.81	1.01	1.00	1.21	0.92	0.91	3.28	3.16	2.04
LEE	9.68	10.29	11.00	11.63	8.99	8.69	8.48	8.60	8.72	8.50	10.45	13.87	9.91
LIMESTONE	2,903.57	2,902.39	2,439.31	2,626.42	2,801.06	2,899.18	2,899.04	2,899.03	2,897.78	2,848.01	2,994.35	3,055.28	2,847.12
LOWNDES	3.26	2.75	2.65	2.94	3.69	3.63	2.98	2.80	2.72	2.68	2.97	3.10	3.01
MACON	1.89	2.51	3.15	2.19	4.21	2.12	1.85	1.24	1.17	1.10	2.71	3.12	2.27
MADISON	52.15	48.21	77.22	64.24	44.79	39.39	41.76	42.04	34.81	31.48	43.13	71.53	49.23
MARENGO	22.86	22.18	17.82	25.19	19.92	19.02	26.79	19.55	19.97	20.83	22.58	28.90	22.13
MARION	2.41	2.03	2.84	2.74	1.86	1.64	1.89	1.73	1.30	1.28	1.79	2.61	2.01
MARSHALL	17.53	15.01	18.69	18.71	12.08	10.99	11.30	12.58	11.07	10.70	12.90	20.98	14.38
MOBILE	384.74	616.79	876.03	857.70	709.69	805.65	782.31	838.42	967.05	771.47	728.12	750.69	757.39
MONROE	47.63	44.42	48.48	33.86	44.58	48.93	47.81	50.80	42.59	48.00	50.27	50.94	46.53
MONTGOMERY	37.14	39.19	38.22	37.27	34.19	37.83	32.18	31.85	30.39	30.30	34.99	47.85	35.95
MORGAN	105.05	104.45	121.96	125.20	82.40	102.63	136.59	130.67	125.73	111.15	110.54	123.83	115.02
PERRY	0.99	0.90	0.93	0.84	0.76	0.73	0.50	0.57	0.49	0.62	0.75	1.02	0.76
PICKENS	1.25	1.18	1.60	1.81	0.98	0.67	0.83	0.59	0.82	0.63	1.66	1.91	1.16
PIKE	3.78	3.85	3.79	4.19	3.53	3.45	3.52	3.64	3.36	3.38	4.10	4.13	3.73
RANDOLPH	0.86	0.99	0.84	0.37	0.79	0.63	0.57	0.54	0.51	0.47	0.64	0.69	0.66
RUSSELL	20.76	26.19	17.23	33.51	19.01	18.61	26.27	18.84	21.29	23.00	25.41	32.93	23.59
SHELBY	562.29	611.90	514.56	335.71	542.14	647.68	680.81	597.94	494.95	174.68	245.45	291.99	475.01
ST CLAIR	4.35	4.12	4.98	5.91	3.01	2.49	2.60	3.04	2.94	2.79	4.43	5.01	3.81
SUMTER	3.60	4.70	4.80	4.81	1.40	1.34	0.84	0.54	0.71	1.03	4.24	5.34	2.78
TALLADEGA	53.05	46.87	44.62	43.38	40.93	35.94	45.08	41.26	55.74	45.55	51.98	53.52	46.49
TALLAPOOSA	3.56	3.71	4.04	4.19	3.23	2.86	2.47	2.36	2.53	1.93	2.54	4.48	3.16
TUSCALOOSA	30.84	29.16	27.94	32.01	23.14	22.92	22.80	23.91	23.03	20.83	23.04	26.09	25.48
WALKER	456.08	649.06	583.36	556.04	753.17	753.91	754.87	757.85	741.85	559.63	287.99	701.87	629.64
WASHINGTON	54.66	55.14	22.60	54.40	55.36	56.35	55.79	55.71	55.36	34.77	57.98	42.21	50.03
WILCOX	19.16	24.14	19.64	23.34	19.68	17.40	18.00	17.73	21.00	18.95	23.15	19.96	20.18
WINSTON	0.14	0.70	0.11	0.19	0.08	0.07	0.08	0.18	0.08	0.25	0.71	0.09	0.22
TOTAL	**7,494.62**	**7,934.69**	**7,268.65**	**7,582.95**	**7,926.98**	**8,073.79**	**8,267.21**	**8,198.25**	**8,055.04**	**6,760.62**	**6,524.88**	**7,456.80**	**7,628.71**

Table 75. Total returns by hydrologic subregion and subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	4.16	4.68	4.70	5.35	3.92	4.12	4.02	4.05	4.10	3.66	6.17	8.01	4.74
03130003	22.51	27.95	18.83	35.61	20.71	20.32	27.75	20.30	22.92	24.53	27.61	35.70	25.39
03130004	78.82	71.85	81.30	72.69	84.45	80.83	82.82	83.00	81.74	86.80	94.98	82.66	81.83
03130012	2.36	1.87	1.73	2.75	2.02	1.78	1.95	1.38	1.59	1.62	3.93	3.17	2.18
Subtotal	*107.84*	*106.35*	*106.56*	*116.39*	*111.10*	*107.05*	*116.53*	*108.73*	*110.35*	*116.61*	*132.69*	*129.55*	*114.15*
Chocawhatchee-Escambia													
03140103	1.51	1.41	1.51	1.74	0.90	0.71	0.82	1.03	0.83	1.24	2.69	1.76	1.35
03140104	0.00	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	3.17	2.40	3.86	5.47	3.13	2.25	2.04	1.82	1.80	2.01	3.68	4.30	2.99
03140107	4.90	4.03	4.71	5.46	5.17	6.57	7.28	5.57	4.90	4.60	4.21	3.93	5.11
03140201	15.30	14.92	14.34	18.94	16.14	15.71	14.10	12.78	13.37	12.49	22.95	21.00	16.00
03140202	6.52	6.56	6.53	7.22	6.52	6.57	6.65	6.39	6.85	6.52	8.58	8.54	6.95
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	1.74	1.92	1.61	2.25	1.66	1.38	1.21	1.13	1.01	1.12	1.98	2.10	1.59
03140302	0.30	0.29	0.34	0.33	0.30	0.30	0.26	0.24	0.27	0.29	0.41	0.45	0.31
03140303	1.99	1.68	1.95	2.14	1.71	1.53	1.43	1.34	1.34	1.42	1.62	2.29	1.70
03140304	45.23	34.23	39.60	37.35	35.44	35.91	36.24	35.44	36.57	34.94	28.85	42.36	36.85
03140305	1.10	0.90	0.95	1.09	0.72	0.81	0.92	0.76	0.74	0.85	1.25	1.27	0.95
Subtotal	*81.73*	*68.33*	*75.40*	*81.99*	*71.69*	*71.75*	*70.93*	*66.48*	*67.69*	*65.47*	*76.21*	*87.99*	*73.81*
Alabama													
03150105	2.11	1.69	2.71	3.77	1.64	1.23	1.02	1.28	0.87	1.15	2.35	2.32	1.84
03150106	183.45	213.43	208.37	191.00	175.40	169.45	160.61	161.52	186.70	168.38	179.96	199.31	183.13
03150107	569.28	621.18	519.46	336.01	548.24	654.40	686.02	602.99	499.41	180.16	251.42	296.15	480.39
03150108	0.51	0.48	0.49	0.66	0.59	0.30	0.32	0.35	0.30	0.30	0.56	0.63	0.46
03150109	6.04	6.31	6.37	6.25	5.43	5.10	4.60	4.42	4.56	4.00	4.88	7.21	5.43
03150110	12.99	13.92	15.03	14.82	14.46	12.36	11.57	11.01	10.66	10.40	14.08	18.54	13.32
03150201	127.60	117.74	116.86	120.23	100.98	103.50	106.71	96.85	91.17	94.54	107.85	124.59	109.05
03150202	31.98	29.19	33.91	43.60	24.26	21.33	22.46	22.54	21.18	18.78	26.90	34.21	27.53
03150203	19.16	24.14	19.64	23.36	19.69	17.40	18.00	17.73	21.00	18.95	23.15	20.07	20.19
03150204	47.63	44.42	48.48	33.86	44.58	48.93	47.81	50.80	42.59	48.00	50.27	50.94	46.53
Subtotal	*1,000.74*	*1,072.51*	*971.32*	*773.56*	*935.27*	*1,034.00*	*1,059.11*	*969.49*	*878.45*	*544.66*	*661.42*	*753.97*	*887.88*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 75. Total returns by hydrologic subregion and subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	1.77	1.90	2.87	2.49	1.61	1.47	1.70	1.45	1.14	1.09	1.61	2.32	1.78
03160105	5.16	2.30	2.96	3.51	4.58	1.97	0.75	0.95	0.52	0.66	0.96	1.41	2.14
03160106	1.25	1.20	1.62	1.82	0.98	0.68	0.84	0.61	0.82	0.64	1.67	1.92	1.17
03160107	1.55	1.64	2.58	2.74	1.67	1.14	1.14	1.05	0.94	1.04	1.75	2.25	1.62
03160108	1.81	2.73	2.38	2.80	0.00	0.00	0.00	0.00	0.00	0.00	2.33	3.34	1.28
03160109	467.71	658.40	597.89	569.93	759.70	759.44	760.39	764.01	746.21	563.98	296.22	714.85	638.23
03160110	0.54	1.00	0.42	0.51	0.23	0.20	0.26	0.36	0.22	0.40	0.96	0.47	0.46
03160111	123.13	110.61	145.13	160.97	100.59	84.15	93.30	92.87	90.10	86.82	104.74	162.51	112.91
03160112	142.68	125.18	130.76	140.56	69.09	83.88	90.30	83.80	66.76	58.49	69.25	95.82	96.38
03160113	354.22	380.38	164.48	398.06	413.40	414.09	411.74	396.91	410.27	417.38	327.29	422.72	375.91
03160201	74.71	72.11	69.48	73.63	71.38	61.00	79.98	78.98	69.39	68.44	73.35	84.54	73.08
03160202	1.78	1.96	2.40	2.01	1.40	1.32	0.83	0.52	0.70	1.02	1.90	1.99	1.49
03160203	82.19	78.52	46.87	78.84	79.63	79.77	78.19	78.02	78.50	60.41	81.24	67.64	74.15
03160204	378.01	613.19	874.33	854.20	705.95	802.10	778.72	834.04	962.05	758.48	718.68	744.07	751.99
03160205	7.88	5.44	6.62	6.39	6.38	6.12	4.85	5.57	6.31	8.57	8.91	7.03	6.67
Subtotal	*1,644.39*	*2,056.56*	*2,050.77*	*2,298.45*	*2,216.59*	*2,297.32*	*2,302.98*	*2,339.12*	*2,433.94*	*2,027.44*	*1,690.86*	*2,312.88*	*2,139.27*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.27	0.20	0.28	0.26	0.25	0.18	0.18	0.30	0.31	0.33	0.43	0.52	0.29
03170009	1.37	1.40	1.67	2.05	1.59	1.82	2.41	2.29	2.17	2.22	2.57	2.37	1.99
Subtotal	*1.63*	*1.60*	*1.95*	*2.31*	*1.84*	*2.00*	*2.59*	*2.58*	*2.48*	*2.55*	*3.01*	*2.89*	*2.29*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	476.19	472.98	478.31	512.48	528.41	504.73	506.18	506.81	475.62	20.40	24.40	36.50	378.59
06030002	3,062.20	3,055.99	2,639.81	2,816.69	2,929.15	3,041.64	3,077.79	3,072.40	3,058.84	2,991.06	3,149.96	3,251.71	3,012.27
06030003	0.00	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	0.09	0.09	0.21	0.10	0.08	0.08	0.07	0.07	0.05	0.06	0.09	0.15	0.09
06030005	1,112.53	1,094.22	936.14	973.36	1,127.05	1,009.82	1,126.70	1,128.99	1,024.29	988.93	781.69	872.95	1,014.72
06030006	7.27	6.06	8.18	7.61	5.80	5.40	4.33	3.57	3.31	3.44	4.54	8.21	5.64
Subtotal	*4,658.28*	*4,629.34*	*4,062.64*	*4,310.25*	*4,590.48*	*4,561.67*	*4,715.06*	*4,711.84*	*4,562.12*	*4,003.89*	*3,960.69*	*4,169.53*	*4,411.32*
Total	**7,494.62**	**7,934.69**	**7,268.65**	**7,582.95**	**7,926.98**	**8,073.79**	**8,267.21**	**8,198.25**	**8,055.04**	**6,760.62**	**6,524.88**	**7,456.80**	**7,628.71**

Public-Supply Returns

Public-supply returns for 2015 were estimated to be 560 MGD. Estimates of returns by sector indicate that public supply accounted for 7 percent of the total returns for 2015. Public - supply returns are shown monthly by county and hydrologic subbasin in tables 76 and 77. The geographic distribution of public-supply returns by county and hydrologic subbasin is shown in figures 64 and 65. The counties with the largest public supply returns are Jefferson (151 MGD), Madison (47 MGD), and Mobile (44 MGD) Counties (figure 64). The subbasins with the largest total returns are the Locust Fork (03160111; 96 MGD), the Wheeler Lake (06030002; 82 MGD), the Upper Black Warrior (03160112; 65 MGD), the Mobile-Tensaw (03160204; 44 MGD) and the Middle Coosa (03150106; 43 MGD) subbasins (figure 65).

Figure 64. Map of public-supply returns by county in Alabama in 2015, in MGD.

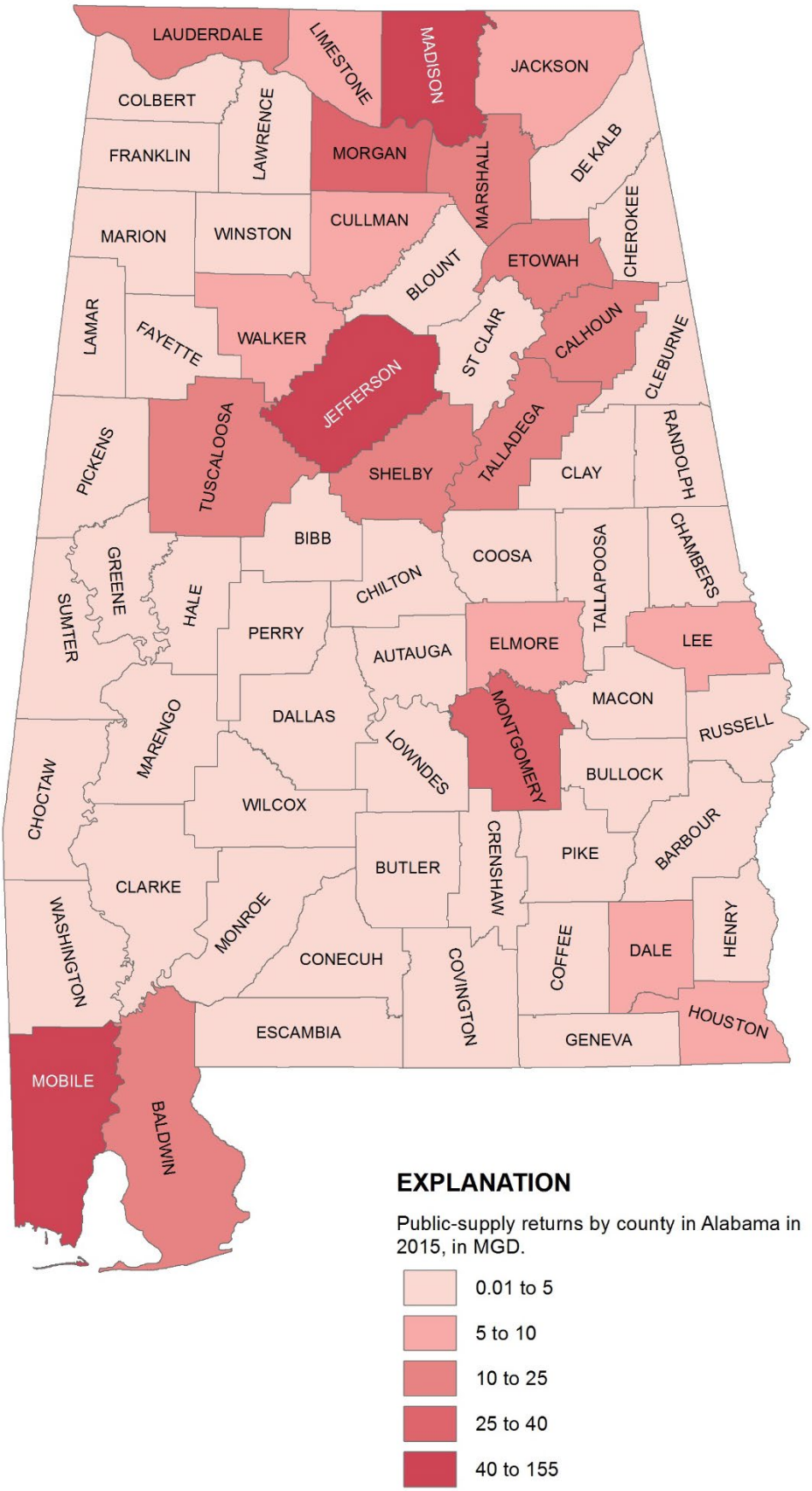


Figure 65. Map of public-supply returns by subbasin in Alabama in 2015, in MGD.

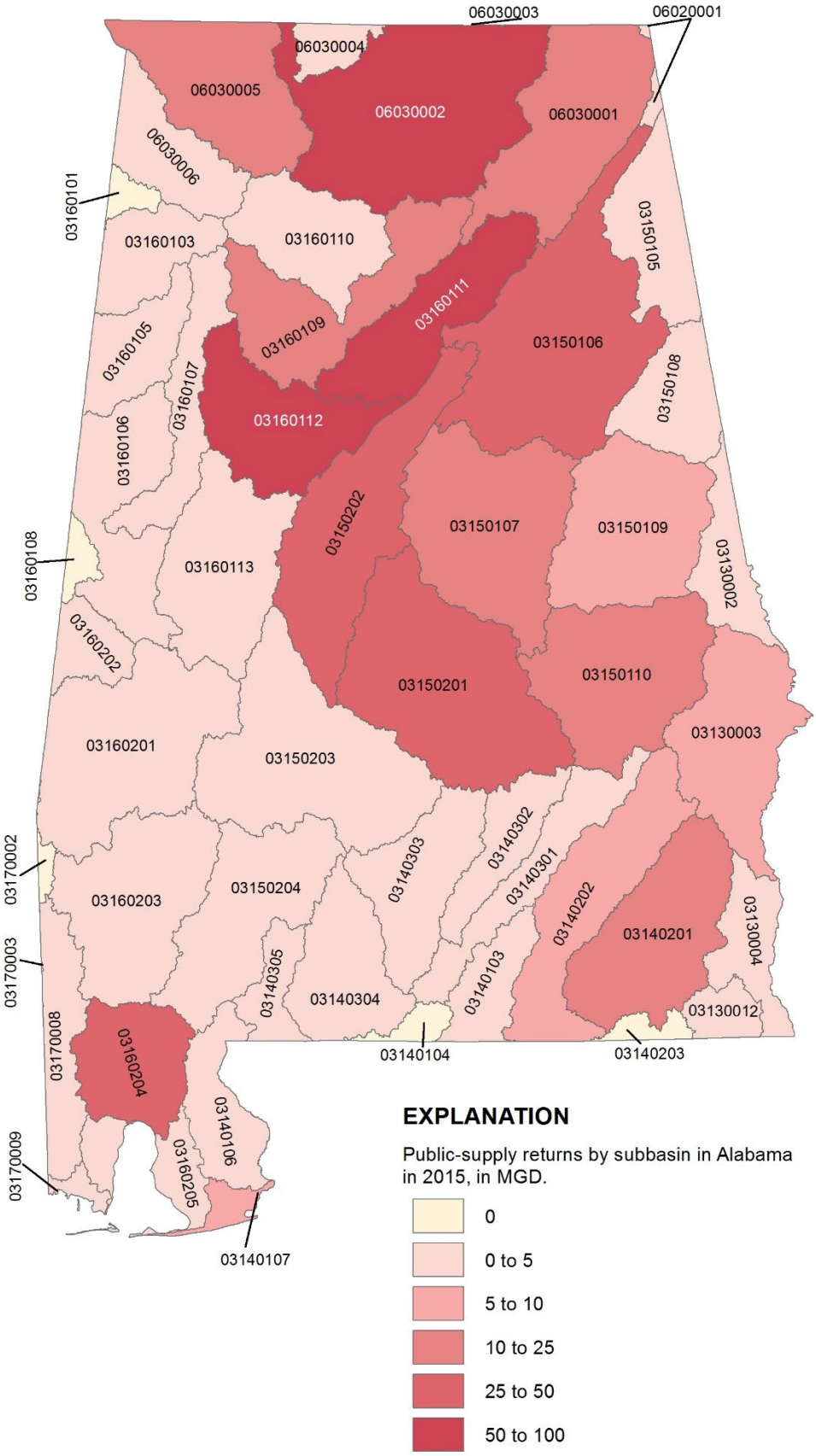


Table 76. Public-supply returns by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	1.62	1.61	1.65	1.67	1.53	1.83	1.62	1.29	1.16	1.08	1.54	1.83	1.53
BALDWIN	12.37	11.27	13.80	16.10	12.93	13.58	13.65	12.13	11.93	11.89	12.94	13.16	12.98
BARBOUR	2.12	2.11	2.00	2.57	2.16	2.22	2.04	2.04	2.12	1.98	2.74	3.43	2.29
BIBB	1.35	0.90	1.26	1.33	0.87	0.84	0.84	0.69	0.60	0.55	0.94	0.99	0.93
BLOUNT	2.54	1.86	2.56	2.94	1.23	0.87	0.83	1.09	0.90	0.81	1.18	2.17	1.58
BULLOCK	1.08	1.10	1.19	1.49	1.24	1.28	1.29	1.25	1.15	1.28	1.37	1.64	1.28
BUTLER	1.87	1.59	1.81	2.02	1.63	1.43	1.37	1.31	1.32	1.33	1.53	2.21	1.62
CALHOUN	20.55	18.93	20.03	28.11	13.09	10.33	9.30	8.71	7.92	8.27	17.12	21.44	15.32
CHAMBERS	3.38	3.89	3.55	4.08	2.97	3.03	3.21	3.39	3.37	2.85	5.12	6.78	3.80
CHEROKEE	0.73	0.60	0.82	1.41	0.69	0.58	0.53	0.56	0.48	0.57	0.75	1.06	0.73
CHILTON	2.77	2.32	2.74	2.76	2.05	1.97	1.74	1.56	1.51	1.59	1.93	2.70	2.14
CHOCTAW	0.25	0.23	0.36	0.34	0.07	0.18	0.19	0.03	0.02	0.11	0.27	0.34	0.20
CLARKE	1.51	1.41	2.04	0.67	0.74	1.63	1.58	1.15	0.50	0.65	1.79	1.97	1.30
CLAY	1.02	1.03	0.98	1.14	0.98	0.95	0.93	0.88	0.88	0.92	1.02	1.22	1.00
CLEBURNE	0.39	0.36	0.37	0.51	0.31	0.26	0.25	0.29	0.25	0.26	0.42	0.50	0.35
COFFEE	2.77	2.83	3.11	4.38	3.62	3.49	2.86	2.60	2.66	2.45	3.88	4.16	3.23
COLBERT	5.31	4.46	5.39	5.44	4.65	4.24	4.30	4.61	3.68	3.71	3.67	6.76	4.68
CONECUH	0.87	0.71	0.62	1.27	0.59	0.54	0.36	0.38	0.54	0.41	0.73	0.98	0.67
COOSA	0.18	0.19	0.21	0.21	0.20	0.02	0.07	0.07	0.01	0.10	0.07	0.17	0.13
COVINGTON	3.12	3.02	3.15	3.88	2.56	2.08	1.97	2.09	1.86	2.47	5.12	4.19	2.96
CRENSHAW	0.53	0.76	0.50	0.65	0.40	0.32	0.31	0.30	0.31	0.29	0.46	0.52	0.45
CULLMAN	10.79	8.63	12.72	12.71	5.85	4.93	5.00	5.58	3.82	3.77	7.72	12.20	7.81
DALE	9.83	8.99	8.60	11.76	8.97	8.75	8.03	6.94	7.36	7.16	16.17	14.31	9.74
DALLAS	4.40	3.66	4.25	5.25	4.42	4.18	3.16	2.85	2.49	2.37	3.02	4.35	3.70
DEKALB	3.52	3.41	4.42	4.78	2.71	2.37	2.42	3.17	2.48	2.73	3.53	5.62	3.43
ELMORE	6.62	6.07	6.36	6.50	7.04	6.08	5.94	6.06	5.61	5.52	6.01	7.79	6.30
ESCAMBIA	4.20	3.80	3.90	4.65	3.51	3.09	3.34	2.53	2.30	2.76	4.18	4.42	3.56
ETOWAH	15.95	15.67	21.89	21.94	10.95	13.42	9.79	10.65	8.55	9.04	15.26	22.47	14.63
FAYETTE	1.90	1.96	3.00	3.12	1.73	1.10	1.10	1.01	0.91	1.00	1.91	2.55	1.77
FRANKLIN	5.83	4.88	6.23	5.60	4.42	3.52	2.93	2.36	1.98	2.13	3.37	6.96	4.18
GENEVA	1.45	1.18	1.06	1.43	1.81	1.81	1.71	1.08	1.79	1.47	2.52	2.12	1.62
GREENE	0.24	0.19	0.20	0.15	0.11	0.23	0.11	0.03	0.08	0.13	0.90	1.66	0.34
HALE	1.66	0.30	1.71	0.77	0.27	0.78	0.13	0.08	0.06	1.59	3.15	1.72	1.02
HENRY	0.66	0.73	0.65	0.84	0.60	0.52	0.54	0.55	0.57	0.47	0.92	0.97	0.67

Table 76. Public-supply returns by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	5.94	4.89	4.85	7.24	5.58	5.28	5.24	4.12	4.52	4.54	10.58	8.69	5.96
JACKSON	8.60	7.62	9.84	8.86	5.62	5.45	5.33	5.29	4.05	4.18	5.64	10.70	6.76
JEFFERSON	194.75	160.11	197.82	243.46	123.79	105.83	120.60	114.85	103.81	99.34	134.76	210.74	150.82
LAMAR	4.19	1.84	2.28	3.08	4.30	1.88	0.61	0.70	0.50	0.42	0.65	0.84	1.77
LAUDERDALE	9.80	10.17	21.85	21.57	8.60	16.61	8.24	8.16	6.85	7.19	14.64	22.97	13.06
LAWRENCE	2.78	2.20	3.41	2.77	1.81	1.01	1.00	1.21	0.92	0.91	3.28	3.16	2.04
LEE	9.68	10.29	11.00	11.63	8.99	8.69	8.48	8.60	8.72	8.50	10.45	13.87	9.91
LIMESTONE	9.26	8.09	11.81	9.12	6.05	4.87	4.73	4.72	3.47	3.40	5.44	11.68	6.89
LOWNDES	0.13	0.06	0.16	0.11	1.06	0.48	0.04	0.02	0.03	0.08	0.07	0.07	0.19
MACON	1.89	2.51	3.15	2.19	4.21	2.12	1.85	1.24	1.17	1.10	2.71	3.12	2.27
MADISON	50.56	46.96	62.56	63.03	43.81	38.27	40.36	41.10	33.46	30.37	41.92	68.72	46.76
MARENGO	3.36	3.58	3.52	4.39	1.42	1.32	7.39	1.15	1.17	1.13	2.58	9.70	3.39
MARION	2.41	2.03	2.84	2.74	1.86	1.64	1.89	1.73	1.30	1.28	1.79	2.61	2.01
MARSHALL	17.29	14.77	18.45	18.47	11.83	10.75	11.06	12.34	10.82	10.46	12.66	20.74	14.14
MOBILE	43.39	38.12	49.91	59.86	55.19	47.72	30.70	35.49	33.48	39.53	38.15	52.91	43.70
MONROE	0.67	0.63	0.76	0.90	0.85	1.01	0.77	0.78	0.75	0.70	0.66	1.11	0.80
MONTGOMERY	28.07	31.58	28.46	32.36	27.23	27.92	27.88	27.15	26.19	25.52	30.94	42.97	29.69
MORGAN	33.55	26.80	38.08	37.43	26.70	25.90	22.02	20.80	17.97	16.78	25.36	36.54	27.33
PERRY	0.99	0.90	0.93	0.84	0.76	0.73	0.50	0.57	0.49	0.62	0.75	1.02	0.76
PICKENS	0.95	1.07	1.29	1.61	0.86	0.64	0.74	0.55	0.72	0.54	1.42	1.54	0.99
PIKE	3.78	3.85	3.79	4.19	3.53	3.45	3.52	3.64	3.36	3.38	4.10	4.13	3.73
RANDOLPH	0.86	0.99	0.84	0.37	0.79	0.63	0.57	0.54	0.51	0.47	0.64	0.69	0.66
RUSSELL	3.64	3.82	3.85	5.11	3.38	3.21	3.00	3.67	2.79	2.37	4.55	6.16	3.79
SHELBY	18.82	16.56	18.01	21.96	13.49	11.60	12.13	12.09	10.47	10.36	14.63	19.23	14.95
ST CLAIR	4.24	4.00	4.85	5.78	2.88	2.38	2.47	2.93	2.82	2.69	4.29	4.86	3.68
SUMTER	1.70	1.85	2.39	1.89	1.28	1.22	0.73	0.43	0.60	0.93	1.78	1.86	1.39
TALLADEGA	18.20	13.35	16.18	18.49	11.39	10.53	9.04	8.35	7.58	7.31	13.92	16.25	12.55
TALLAPOOSA	3.42	3.60	3.87	4.05	3.01	2.65	2.25	2.14	2.39	1.84	2.38	4.36	3.00
TUSCALOOSA	27.00	25.30	24.76	28.00	20.57	19.42	19.31	20.53	20.86	18.68	18.89	22.87	22.18
WALKER	7.71	7.05	9.43	8.31	5.34	3.14	4.10	4.01	3.59	3.01	5.67	6.84	5.68
WASHINGTON	0.22	0.21	0.21	0.18	0.15	0.17	0.20	0.10	0.17	0.18	0.25	0.25	0.19
WILCOX	0.36	0.14	0.54	0.64	0.38	0.30	0.30	0.33	0.30	0.25	0.55	0.76	0.40
WINSTON	0.14	0.70	0.11	0.19	0.08	0.07	0.08	0.18	0.08	0.25	0.71	0.09	0.22
TOTAL	**651.74**	**576.27**	**704.89**	**793.31**	**513.65**	**469.34**	**450.51**	**438.83**	**397.09**	**391.99**	**550.01**	**777.38**	**559.58**

Table 77. Public-supply returns by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	4.16	4.68	4.70	5.35	3.92	4.12	4.02	4.05	4.10	3.66	6.17	8.01	4.74
03130003	5.39	5.58	5.45	7.21	5.08	4.92	4.48	5.13	4.42	3.90	6.73	8.92	5.60
03130004	4.25	3.75	3.78	5.34	4.15	4.02	3.84	3.29	3.50	3.39	7.57	6.49	4.45
03130012	2.36	1.87	1.73	2.75	2.02	1.78	1.95	1.38	1.59	1.62	3.93	3.17	2.18
Subtotal	*16.15*	*15.88*	*15.65*	*20.64*	*15.17*	*14.84*	*14.28*	*13.85*	*13.61*	*12.57*	*24.40*	*26.59*	*16.97*
Chocawhatchee-Escambia													
03140103	1.51	1.41	1.51	1.74	0.90	0.71	0.82	1.03	0.83	1.24	2.69	1.76	1.35
03140104	0.00	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	3.17	2.40	3.86	5.47	3.13	2.25	2.04	1.82	1.80	2.01	3.68	4.30	2.99
03140107	4.90	4.03	4.71	5.46	5.17	6.57	7.28	5.57	4.90	4.60	4.21	3.93	5.11
03140201	12.83	11.85	11.75	16.33	12.94	12.46	10.99	9.47	9.85	9.57	20.53	18.61	13.10
03140202	5.62	5.61	5.49	6.18	5.66	5.71	5.84	5.54	6.00	5.58	7.30	7.30	5.99
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	1.60	1.81	1.52	2.18	1.56	1.23	1.05	0.97	0.87	0.99	1.86	1.98	1.47
03140302	0.30	0.29	0.34	0.33	0.30	0.30	0.26	0.24	0.27	0.29	0.41	0.45	0.31
03140303	1.96	1.65	1.92	2.11	1.68	1.50	1.41	1.31	1.32	1.40	1.59	2.27	1.68
03140304	2.52	2.52	1.90	2.54	1.83	1.87	2.04	1.52	1.46	1.53	2.10	2.35	2.02
03140305	1.06	0.89	0.93	1.05	0.70	0.79	0.89	0.73	0.72	0.83	1.20	1.25	0.92
Subtotal	*35.46*	*32.46*	*33.94*	*43.40*	*33.89*	*33.40*	*32.60*	*28.18*	*28.02*	*28.04*	*45.57*	*44.18*	*34.93*
Alabama													
03150105	2.11	1.69	2.71	3.77	1.64	1.23	1.02	1.28	0.87	1.15	2.35	2.32	1.84
03150106	52.32	47.58	57.87	69.23	35.42	34.21	28.84	29.06	25.55	25.78	46.07	60.47	42.70
03150107	14.79	12.22	13.63	13.30	9.81	8.85	8.13	8.16	7.61	7.35	11.34	15.11	10.86
03150108	0.51	0.48	0.49	0.66	0.59	0.30	0.32	0.35	0.30	0.30	0.56	0.63	0.46
03150109	5.90	6.20	6.20	6.11	5.21	4.89	4.38	4.20	4.42	3.92	4.72	7.09	5.27
03150110	12.99	13.92	15.03	14.82	14.46	12.36	11.57	11.01	10.66	10.40	14.08	18.54	13.32
03150201	36.72	39.35	37.20	42.13	37.59	36.54	35.24	34.07	32.58	31.86	38.12	52.24	37.80
03150202	31.84	29.10	33.82	43.52	24.21	21.30	22.42	22.50	21.16	18.74	26.83	34.17	27.47
03150203	0.36	0.14	0.54	0.64	0.38	0.30	0.30	0.33	0.30	0.25	0.55	0.87	0.41
03150204	0.67	0.63	0.76	0.90	0.85	1.01	0.77	0.78	0.75	0.70	0.66	1.11	0.80
Subtotal	*158.21*	*151.31*	*168.25*	*195.08*	*130.14*	*121.01*	*113.00*	*111.74*	*104.21*	*100.44*	*145.28*	*192.53*	*140.93*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 77. Public-supply returns by subbasin in Alabama in 2015, in MGD. – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	1.77	1.90	2.87	2.49	1.61	1.47	1.70	1.45	1.14	1.09	1.61	2.32	1.78
03160105	4.70	1.83	2.08	3.17	4.38	1.94	0.59	0.77	0.48	0.47	0.69	1.01	1.84
03160106	0.95	1.08	1.30	1.62	0.86	0.65	0.75	0.57	0.72	0.55	1.42	1.55	1.00
03160107	1.55	1.64	2.58	2.74	1.67	1.14	1.14	1.05	0.94	1.04	1.75	2.25	1.62
03160108	0.00	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	18.46	15.59	22.15	21.14	11.17	7.97	8.92	9.42	7.28	6.63	13.14	19.01	13.41
03160110	0.54	1.00	0.42	0.51	0.23	0.20	0.26	0.36	0.22	0.40	0.96	0.47	0.46
03160111	110.21	92.15	118.28	145.91	83.14	71.78	79.88	79.59	71.91	70.00	90.74	143.71	96.44
03160112	100.80	81.56	90.84	106.44	50.03	43.23	49.30	45.58	42.02	39.81	50.76	77.17	64.79
03160113	6.34	4.32	6.07	5.68	3.78	4.01	2.84	2.77	2.62	4.31	7.15	7.37	4.77
03160201	3.61	3.81	3.88	4.73	1.48	1.50	7.58	1.18	1.19	1.24	2.85	10.04	3.59
03160202	1.69	1.84	2.37	1.88	1.28	1.21	0.71	0.41	0.60	0.92	1.77	1.85	1.38
03160203	3.33	2.66	2.25	1.95	1.29	1.80	1.78	1.26	1.06	7.33	4.92	4.06	2.81
03160204	43.04	38.62	51.53	60.56	56.46	48.95	31.38	36.05	34.35	34.22	36.33	51.82	43.61
03160205	3.09	3.03	3.65	3.64	2.88	2.69	2.57	3.00	2.88	3.01	3.33	3.69	3.12
Subtotal	*300.08*	*251.02*	*310.27*	*362.45*	*220.25*	*188.53*	*189.41*	*183.45*	*167.41*	*171.02*	*217.43*	*326.33*	*240.64*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.27	0.20	0.28	0.26	0.25	0.18	0.18	0.30	0.31	0.33	0.43	0.52	0.29
03170009	1.18	1.17	1.37	1.79	1.38	1.62	1.69	1.55	1.43	1.56	1.84	1.77	1.53
Subtotal	*1.45*	*1.37*	*1.65*	*2.05*	*1.63*	*1.81*	*1.86*	*1.85*	*1.75*	*1.89*	*2.27*	*2.29*	*1.82*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	23.15	20.55	25.64	24.56	16.25	15.22	15.57	16.60	13.56	13.41	17.24	28.54	19.19
06030002	94.82	82.79	113.76	110.42	77.47	69.49	67.51	67.29	55.43	50.99	74.67	118.00	81.89
06030003	0.00	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	0.08	0.08	0.20	0.09	0.07	0.07	0.06	0.06	0.05	0.05	0.08	0.15	0.09
06030005	16.42	15.84	29.20	28.91	14.22	21.38	13.11	13.29	10.93	11.36	19.61	31.74	18.84
06030006	5.92	4.97	6.34	5.70	4.56	3.59	3.10	2.53	2.11	2.22	3.46	7.03	4.29
Subtotal	*140.39*	*124.23*	*175.14*	*169.69*	*112.57*	*109.75*	*99.36*	*99.76*	*82.09*	*78.03*	*115.06*	*185.46*	*124.29*
Total	**651.74**	**576.27**	**704.89**	**793.31**	**513.65**	**469.34**	**450.51**	**438.83**	**397.09**	**391.99**	**550.01**	**777.38**	**559.58**

Industrial, Thermoelectric, and Mining Returns

Industrial, thermoelectric, and mining returns for 2015 were estimated to be 7,069 MGD. Estimates of returns by sector indicate that the industrial, thermoelectric, and mining sector accounted for 93 percent of the total returns for 2015. Industrial, thermoelectric and mining returns are shown monthly by county and hydrologic subbasin in tables 78 and 79. The geographic distribution of industrial, thermoelectric, and mining returns by county and hydrologic subbasin is shown in figures 66 and 67. The counties with the largest industrial, thermoelectric, and mining returns are Limestone (2,840 MGD), Colbert (996 MGD), Mobile (714 MGD), Walker (624 MGD) and Shelby (460 MGD) Counties (figure 66). The subbasins with the largest total returns are the Wheeler Lake (06030002; 2,930 MGD), the Pickwick (06030005; 996 MGD), the Mobile-Tensaw (03160204; 708 MGD), the Mulberry Fork (03160109; 625 MGD), and the Lower Coosa (03150107; 470 MGD) subbasins (figure 67).

Figure 66. Map of industrial, thermoelectric-power and mining returns by county in Alabama in 2015, in MGD.

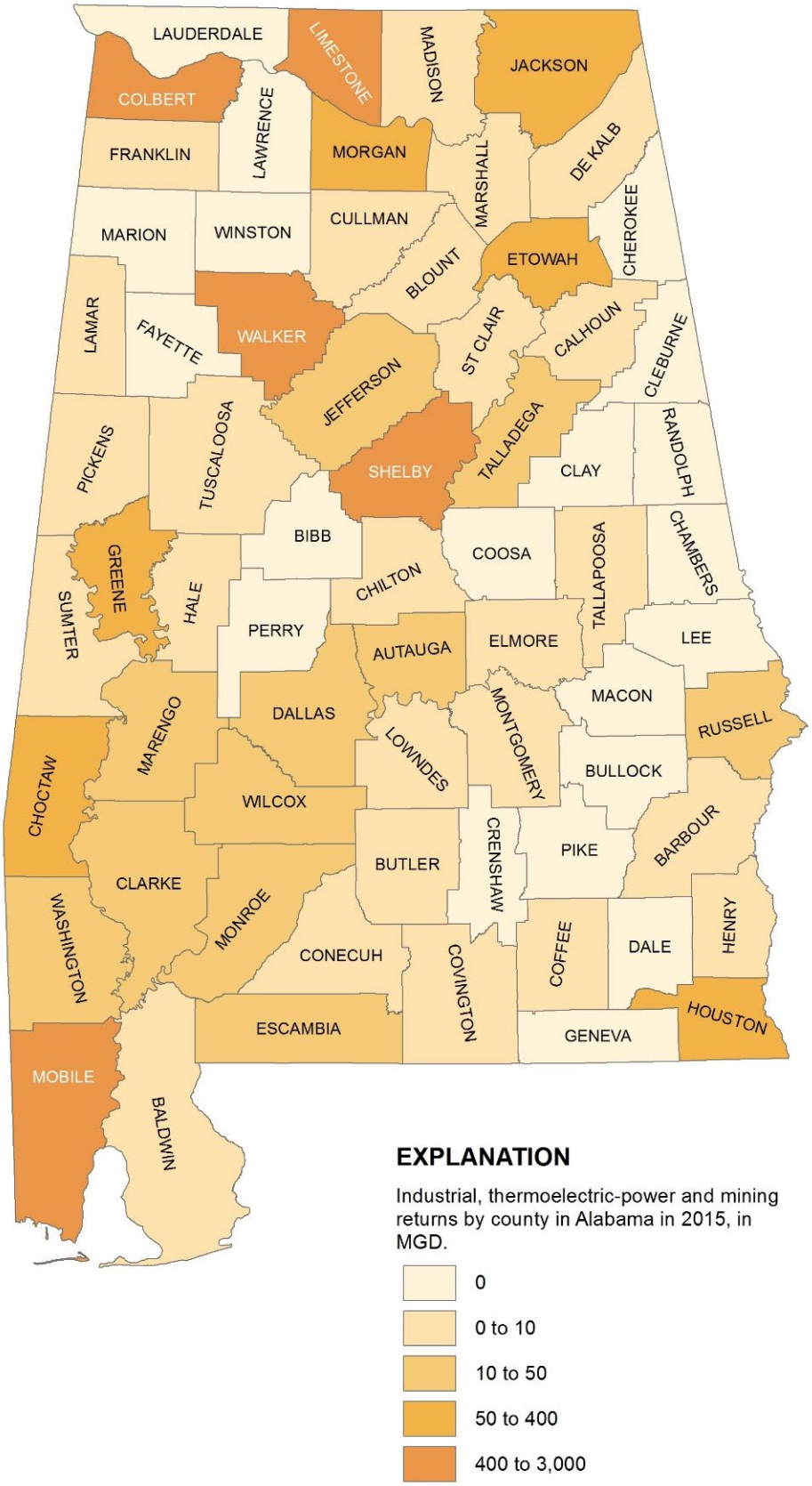


Figure 67. Map of industrial, thermoelectric-power and mining returns by subbasin in Alabama in 2015, in MGD.

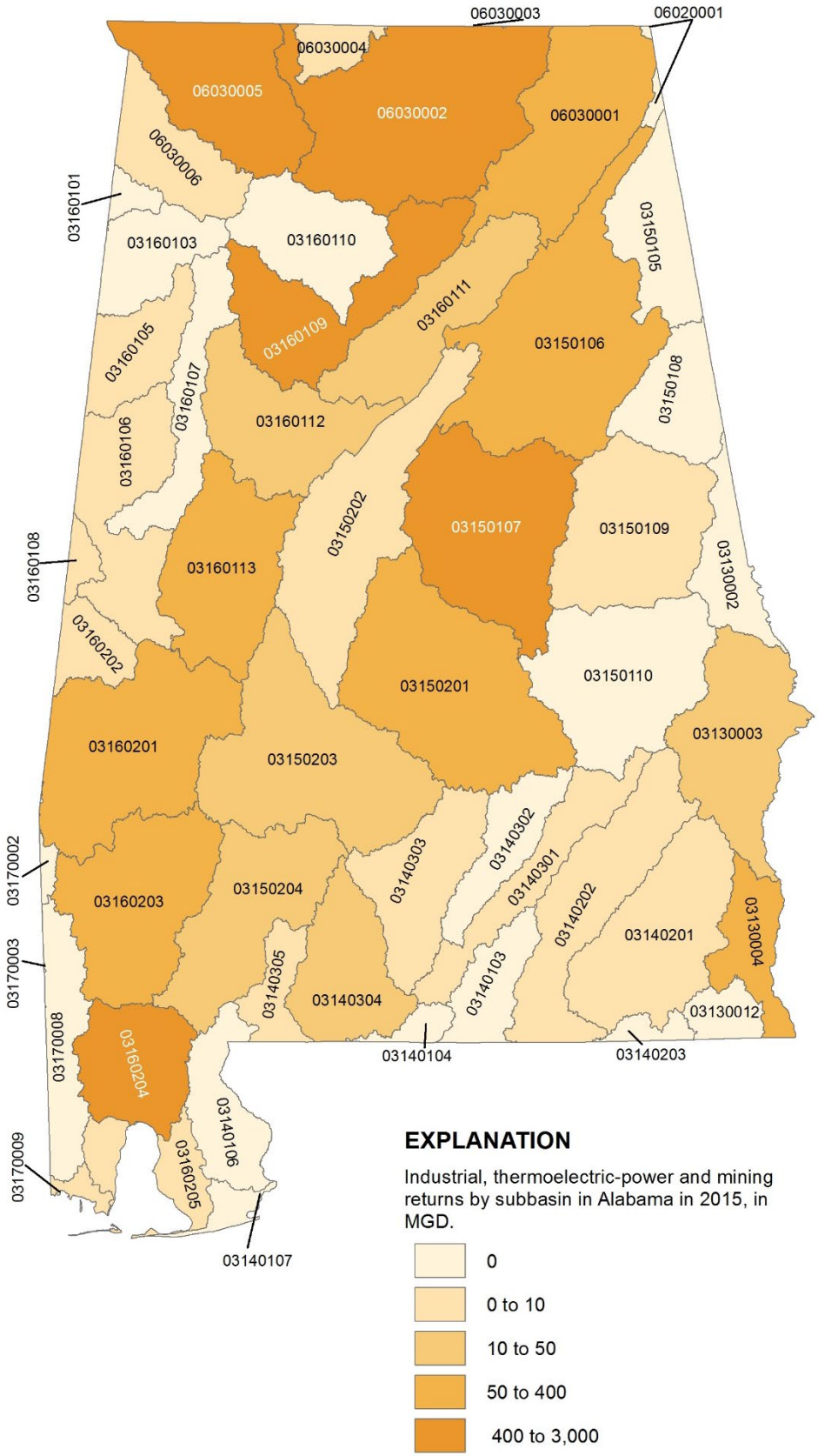


Table 78. Industrial, thermoelectric-power and mining returns by county in Alabama in 2015, in MGD.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
AUTAUGA	43.44	33.84	34.41	37.25	28.29	31.21	34.06	30.58	24.53	28.88	38.43	38.55	33.62
BALDWIN	0.22	0.07	0.08	0.08	0.23	0.34	0.36	0.32	0.34	0.34	0.20	0.23	0.23
BARBOUR	1.29	1.31	1.48	1.31	1.18	1.19	1.07	1.24	1.34	1.02	1.29	1.37	1.26
BIBB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLOUNT	1.33	1.41	1.47	1.52	1.19	1.33	1.30	0.92	1.00	1.19	1.53	1.59	1.32
BULLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BUTLER	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
CALHOUN	1.54	1.42	1.52	1.73	1.33	1.43	1.45	1.42	1.40	1.22	1.52	1.55	1.46
CHAMBERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHEROKEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHILTON	0.17	0.19	0.08	0.15	0.16	0.18	0.12	0.19	0.09	0.07	0.11	0.15	0.14
CHOCTAW	51.60	49.70	51.30	48.10	51.40	41.80	53.00	59.40	49.40	47.50	50.50	55.30	50.75
CLARKE	22.80	19.40	22.10	21.40	21.60	20.30	19.20	19.20	20.20	16.70	17.10	19.80	19.98
CLAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLEBURNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COFFEE	1.63	2.26	1.66	1.85	2.44	2.41	2.38	2.46	2.57	2.34	1.94	1.81	2.14
COLBERT	1,096.10	1,078.38	906.93	944.45	1,112.83	988.44	1,113.59	1,115.70	1,013.36	977.57	762.08	841.21	995.89
CONECUH	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02	0.00	0.00
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	0.00
COVINGTON	0.14	0.11	0.08	0.07	0.10	0.15	0.16	0.17	0.14	0.13	0.12	0.12	0.12
CRENSHAW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CULLMAN	0.88	0.80	1.81	1.06	0.70	0.69	0.70	0.75	0.67	0.74	0.76	0.81	0.86
DALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DALLAS	35.03	34.04	32.85	32.95	25.34	22.48	30.05	24.53	27.09	26.35	24.24	25.72	28.39
DEKALB	1.09	0.95	0.95	1.06	1.08	0.97	1.16	1.39	1.24	0.98	1.03	1.11	1.08
ELMORE	0.03	0.02	0.07	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02
ESCAMBIA	42.74	31.71	37.73	34.85	33.62	34.03	34.23	33.93	35.14	33.42	26.78	40.03	34.85
ETOWAH	104.61	143.51	128.78	102.98	117.72	116.82	102.20	105.66	117.56	110.56	102.42	107.07	113.32
FAYETTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRANKLIN	1.35	1.10	1.84	1.91	1.24	1.80	1.22	1.05	1.20	1.21	1.08	1.19	1.35
GENEVA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GREENE	344.19	373.07	155.92	388.55	407.19	407.41	405.82	390.84	405.86	411.37	317.73	412.99	368.41
HALE	0.01	0.23	0.00	0.00	0.01	0.04	0.03	0.03	0.08	0.00	0.00	0.03	0.04
HENRY	0.37	0.37	0.41	0.42	0.37	0.43	0.39	0.39	0.39	0.42	0.41	0.39	0.40

Table 78. Industrial, thermoelectric-power and mining returns by county in Alabama in 2015, in MGD – Continued.

County Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
HOUSTON	74.65	68.18	77.60	67.43	80.38	76.89	79.06	79.78	78.32	83.49	87.49	76.25	77.46
JACKSON	452.80	452.18	452.43	487.67	511.91	489.27	490.37	489.97	461.82	6.75	6.92	7.72	359.15
JEFFERSON	53.41	59.62	64.66	47.52	35.18	50.83	52.69	50.48	41.50	33.89	29.25	34.99	46.17
LAMAR	0.46	0.48	0.87	0.33	0.21	0.03	0.16	0.18	0.03	0.19	0.27	0.40	0.30
LAUDERDALE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAWRENCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIMESTONE	2,894.31	2,894.31	2,427.51	2,617.31	2,795.01	2,894.31	2,894.31	2,894.31	2,894.31	2,844.61	2,988.91	3,043.61	2,840.23
LOWNDES	3.13	2.69	2.49	2.83	2.63	3.15	2.94	2.78	2.69	2.59	2.89	3.04	2.82
MACON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MADISON	1.59	1.25	14.66	1.21	0.98	1.12	1.40	0.94	1.35	1.10	1.21	2.81	2.47
MARENGO	19.50	18.60	14.30	20.80	18.50	17.70	19.40	18.40	18.80	19.70	20.00	19.20	18.74
MARION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MARSHALL	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
MOBILE	341.35	578.67	826.13	797.84	654.50	757.92	751.60	802.93	933.58	731.94	689.97	697.79	713.68
MONROE	46.96	43.79	47.72	32.96	43.73	47.91	47.04	50.02	41.84	47.31	49.61	49.83	45.73
MONTGOMERY	9.07	7.61	9.76	4.91	6.96	9.91	4.31	4.70	4.21	4.79	4.05	4.88	6.26
MORGAN	71.50	77.65	83.88	87.76	55.70	76.73	114.57	109.87	107.76	94.37	85.18	87.29	87.69
PERRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PICKENS	0.30	0.12	0.32	0.20	0.12	0.03	0.09	0.04	0.10	0.09	0.25	0.37	0.17
PIKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RANDOLPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSSELL	17.12	22.37	13.38	28.40	15.63	15.40	23.27	15.17	18.50	20.63	20.86	26.77	19.79
SHELBY	543.46	595.34	496.55	313.74	528.65	636.08	668.68	585.84	484.48	164.32	230.82	272.76	460.06
ST CLAIR	0.11	0.12	0.13	0.13	0.13	0.11	0.13	0.11	0.12	0.10	0.15	0.15	0.12
SUMTER	1.90	2.85	2.41	2.92	0.11	0.11	0.11	0.11	0.11	0.10	2.46	3.48	1.39
TALLADEGA	34.84	33.52	28.44	24.90	29.54	25.41	36.04	32.91	48.16	38.24	38.07	37.27	33.94
TALLAPOOSA	0.14	0.11	0.17	0.14	0.22	0.21	0.22	0.22	0.14	0.08	0.16	0.13	0.16
TUSCALOOSA	3.84	3.86	3.18	4.00	2.57	3.50	3.49	3.38	2.17	2.16	4.14	3.22	3.29
WALKER	448.37	642.01	573.93	547.73	747.83	750.77	750.77	753.84	738.26	556.62	282.32	695.03	623.96
WASHINGTON	54.44	54.93	22.38	54.22	55.22	56.18	55.59	55.61	55.19	34.59	57.72	41.96	49.84
WILCOX	18.80	24.00	19.10	22.70	19.30	17.10	17.70	17.40	20.70	18.70	22.60	19.20	19.78
WINSTON	0.00	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	6,842.87	7,358.41	6,563.75	6,789.64	7,413.32	7,604.45	7,816.70	7,759.42	7,657.95	6,368.63	5,974.88	6,679.42	7,069.12

Table 79. Industrial, thermoelectric-power and mining returns by subbasin in Alabama in 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	17.12	22.37	13.38	28.40	15.63	15.40	23.27	15.17	18.50	20.63	20.88	26.79	19.79
03130004	74.57	68.10	77.52	67.35	80.30	76.81	78.98	79.70	78.24	83.41	87.41	76.17	77.38
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*91.69*	*90.47*	*90.90*	*95.75*	*95.93*	*92.21*	*102.25*	*94.87*	*96.74*	*104.04*	*108.29*	*102.96*	*97.18*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	2.47	3.07	2.59	2.61	3.20	3.25	3.11	3.32	3.52	2.92	2.42	2.39	2.90
03140202	0.90	0.95	1.04	1.04	0.86	0.86	0.81	0.85	0.85	0.94	1.28	1.24	0.97
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.14	0.11	0.08	0.07	0.10	0.15	0.16	0.17	0.14	0.13	0.12	0.12	0.12
03140302	0.00	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	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
03140304	42.70	31.70	37.70	34.81	33.61	34.04	34.20	33.91	35.11	33.40	26.75	40.01	34.83
03140305	0.04	0.01	0.02	0.04	0.01	0.02	0.03	0.02	0.02	0.02	0.05	0.03	0.03
Subtotal	*46.27*	*35.86*	*41.47*	*38.60*	*37.80*	*38.35*	*38.33*	*38.29*	*39.67*	*37.44*	*30.64*	*43.81*	*38.88*
Alabama													
03150105	0.00	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	131.12	165.85	150.50	121.78	139.98	135.24	131.76	132.46	161.15	142.60	133.89	138.84	140.43
03150107	554.49	608.97	505.82	322.71	538.43	645.55	677.89	594.83	491.80	172.81	240.08	281.04	469.53
03150108	0.00	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	0.14	0.11	0.17	0.14	0.22	0.21	0.22	0.22	0.14	0.08	0.16	0.13	0.16
03150110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03150201	90.88	78.40	79.66	78.10	63.40	66.95	71.47	62.78	58.60	62.68	69.73	72.34	71.25
03150202	0.14	0.09	0.09	0.08	0.06	0.03	0.03	0.05	0.02	0.04	0.07	0.05	0.06
03150203	18.80	24.00	19.11	22.71	19.31	17.10	17.70	17.40	20.70	18.70	22.60	19.20	19.78
03150204	46.96	43.79	47.72	32.96	43.73	47.91	47.04	50.02	41.84	47.31	49.61	49.83	45.73
Subtotal	*842.53*	*921.20*	*803.08*	*578.48*	*805.13*	*912.99*	*946.12*	*857.76*	*774.25*	*444.22*	*516.15*	*561.43*	*746.94*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 79. Industrial, thermoelectric-power and mining returns by subbasin in Alabama in 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	0.46	0.48	0.87	0.33	0.21	0.03	0.16	0.18	0.03	0.19	0.27	0.40	0.30
03160106	0.30	0.12	0.32	0.20	0.12	0.03	0.09	0.04	0.10	0.09	0.25	0.37	0.17
03160107	0.00	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	1.81	2.73	2.38	2.80	0.00	0.00	0.00	0.00	0.00	0.00	2.33	3.34	1.28
03160109	449.25	642.81	575.74	548.79	748.53	751.46	751.47	754.59	738.93	557.36	283.08	695.84	624.82
03160110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160111	12.92	18.46	26.85	15.06	17.45	12.37	13.42	13.28	18.20	16.82	14.00	18.80	16.47
03160112	41.88	43.63	39.92	34.13	19.06	40.65	41.00	38.22	24.74	18.68	18.48	18.65	31.59
03160113	347.88	376.06	158.42	392.38	409.62	410.08	408.89	394.14	407.65	413.07	320.13	415.35	371.14
03160201	71.10	68.30	65.60	68.90	69.90	59.50	72.40	77.80	68.20	67.20	70.50	74.50	69.49
03160202	0.09	0.12	0.03	0.13	0.11	0.11	0.11	0.11	0.11	0.10	0.13	0.14	0.11
03160203	78.86	75.86	44.62	76.89	78.35	77.97	76.41	76.77	77.44	53.08	76.32	63.58	71.35
03160204	334.97	574.56	822.80	793.64	649.49	753.15	747.34	797.99	927.70	724.26	682.35	692.26	708.38
03160205	4.79	2.41	2.97	2.75	3.51	3.42	2.28	2.57	3.43	5.56	5.58	3.34	3.55
Subtotal	*1,344.31*	*1,805.54*	*1,740.50*	*1,936.00*	*1,996.34*	*2,108.79*	*2,113.58*	*2,155.68*	*2,266.53*	*1,856.42*	*1,473.43*	*1,986.55*	*1,898.64*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170009	0.19	0.24	0.30	0.26	0.21	0.20	0.72	0.74	0.74	0.66	0.74	0.60	0.47
Subtotal	*0.19*	*0.24*	*0.30*	*0.26*	*0.21*	*0.20*	*0.72*	*0.74*	*0.74*	*0.66*	*0.74*	*0.60*	*0.47*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	453.04	452.43	452.68	487.92	512.16	489.51	490.61	490.21	462.06	6.99	7.16	7.96	359.39
06030002	2,967.38	2,973.20	2,526.05	2,706.27	2,851.69	2,972.15	3,010.27	3,005.11	3,003.40	2,940.08	3,075.29	3,133.70	2,930.38
06030003	0.00	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	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
06030005	1,096.10	1,078.38	906.93	944.45	1,112.83	988.44	1,113.59	1,115.70	1,013.36	977.57	762.08	841.21	995.89
06030006	1.35	1.10	1.84	1.91	1.24	1.80	1.22	1.05	1.20	1.21	1.08	1.19	1.35
Subtotal	*4,517.88*	*4,505.11*	*3,887.50*	*4,140.56*	*4,477.92*	*4,451.92*	*4,615.70*	*4,612.08*	*4,480.03*	*3,925.86*	*3,845.63*	*3,984.07*	*4,287.02*
Total	**6,842.87**	**7,358.41**	**6,563.75**	**6,789.64**	**7,413.32**	**7,604.45**	**7,816.70**	**7,759.42**	**7,657.95**	**6,368.63**	**5,974.88**	**6,679.42**	**7,069.12**

Comparison of 2010 and 2015 Return Data

Total Returns 2010 to 2015

The geographic distribution of the comparison of total returns from 2010 to 2015 is shown in table 80. Overall total returns decreased 19 percent from 2010 to 2015 from 9,461 MGD in 2010 to 7,629 MGD in 2015. The subbasins with the largest increases in total returns from 2010 to 2015 are the Wheeler Lake (06030002; 70 MGD), the Middle Tombigbee-Chickasaw (03160201; 23 MGD) and the Lower Black Warrior (03160113; 14 MGD) subbasins. The subbasins with the largest decreases in total returns from 2010 to 2015 are the Guntersville Lake (06030001; -725 MGD), the Pickwick (06030005; -335 MGD), the Mobile-Tensaw (03160204; -297 MGD), the Mulberry Fork (03160109; -241 MGD), and the Lower Coosa (03150107; -204 MGD) subbasins (figure 68).

Public Supply Returns 2010 to 2015

The geographic distribution of the comparison of public-supply returns from 2010 to 2015 is shown in table 81. Overall, public-supply returns increased 7 percent from 2010 to 2015 from 524 MGD in 2010 to 560 MGD in 2015. The subbasins with the largest increases in public-supply returns from 2010 to 2015 are the Wheeler Lake (06030002; 13 MGD) and the Guntersville Lake (06030001; 6 MGD) subbasins. The subbasins with the largest decreases in public-supply returns from 2010 to 2015 are the Upper Alabama (03150201; -2 MGD), the Escambia (03140305; -2 MGD), the Mobile-Tensaw (03160204; -2 MGD) and the Perdido Bay (03140107; -1 MGD) subbasins (figure 69).

Industrial, Thermoelectric, and Mining Returns 2010 to 2015

The geographic distribution of the comparison of industrial, thermoelectric, and mining returns from 2010 to 2015 is shown in table 82. Overall industrial, thermoelectric and mining returns decreased 21 percent from 2010 to 2015 from 8,937 MGD in 2010 to 7,069 MGD in 2015. The subbasins with the largest increases in total returns from 2010 to 2015 are the Wheeler Lake (06030002; 56 MGD), the Upper Tombigbee (03160201; 22 MGD) and the Lower Black Warrior (03160113; 14 MGD) subbasins. The subbasins with the largest decreases in total returns from 2010 to 2015 are the Guntersville Lake (06030001; -731 MGD), the Pickwick (06030005; -337 MGD), the Mobile-Tensaw (03160204; -295 MGD), the Mulberry Fork (03160109; -244 MGD), and the Lower Coosa (03150107; -205 MGD) subbasins (figure 70).

Figure 68. Map of change in total returns by subbasin from 2010 to 2015 in Alabama, in MGD.

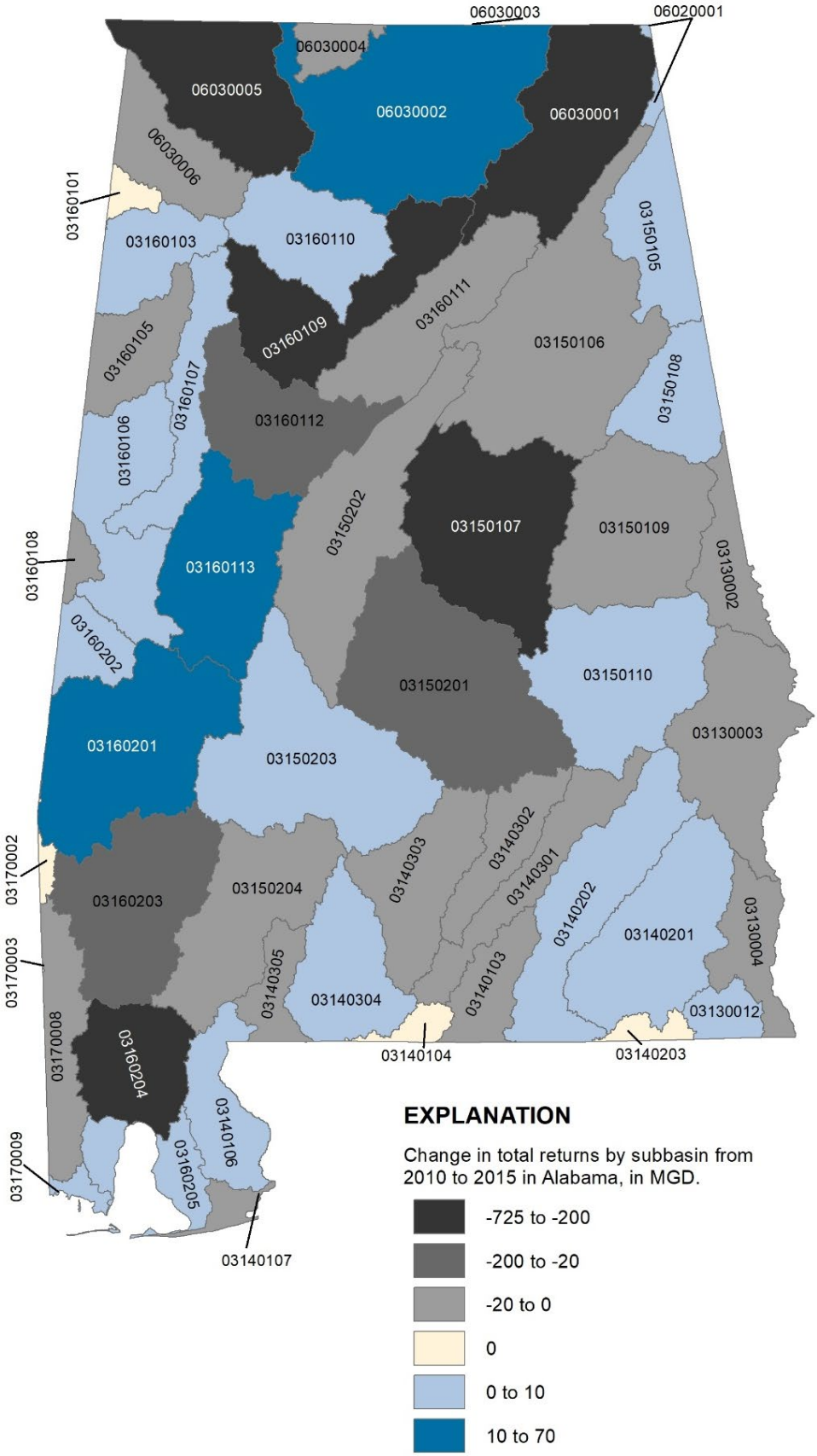


Table 80. Change in total returns by subbasin from 2010 to 2015 in Alabama, in MGD.

Hydrologic subregion and subbasin	2010 Total Returns	2015 Total Returns	Total Diff 2010 to 2015
Apalachicola			
03130002	6.17	4.74	-1.43
03130003	26.75	25.39	-1.36
03130004	85.72	81.83	-3.89
03130012	1.62	2.18	-0.56
Subtotal	*120.26*	*114.15*	*-7.23*
Chocawhatchee-Escambia			
03140103	1.53	1.35	-0.18
03140104	0.00	0.00	0.00
03140106	2.70	2.99	0.29
03140107	6.44	5.11	-1.33
03140201	15.96	16.00	0.05
03140202	6.80	6.95	0.16
03140203	0.00	0.00	0.00
03140301	2.12	1.59	-0.53
03140302	0.41	0.31	-0.10
03140303	1.96	1.70	-0.26
03140304	34.84	36.85	2.01
03140305	3.02	0.95	-2.08
Subtotal	*75.78*	*73.81*	*-1.98*
Alabama			
03150105	1.83	1.84	0.02
03150106	198.72	183.13	-15.59
03150107	684.43	480.39	-204.03
03150108	0.43	0.46	0.03
03150109	6.25	5.43	-0.81
03150110	12.93	13.32	0.39
03150201	133.13	109.05	-24.08
03150202	29.13	27.53	-1.60
03150203	19.38	20.19	0.81
03150204	50.92	46.53	-4.40
Subtotal	*1,137.14*	*887.88*	*-249.27*
Mobile-Tombigbee			
03160101	0.00	0.00	0.00
03160103	1.49	1.78	0.29
03160105	2.65	2.14	-0.51
03160106	1.14	1.17	0.03
03160107	1.43	1.62	0.19
03160108	3.10	1.28	-1.82
03160109	879.57	638.23	-241.35
03160110	0.38	0.46	0.08
03160111	113.35	112.91	-0.44
03160112	133.91	96.38	-37.53
03160113	361.98	375.91	13.93
03160201	49.81	73.08	23.27
03160202	1.31	1.49	0.18
03160203	118.24	74.15	-44.09
03160204	1,048.92	751.99	-296.94
03160205	5.76	6.67	0.91
Subtotal	*2,723.06*	*2,139.27*	*-583.79*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.37	0.29	-0.08
03170009	1.36	1.99	0.63
Subtotal	*1.73*	*2.29*	*0.56*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	1,103.12	378.59	-724.54
06030002	2,942.67	3,012.27	69.60
06030003	0.00	0.00	0.00
06030004	0.33	0.09	-0.24
06030005	1,349.78	1,014.72	-335.06
06030006	7.03	5.64	-1.39
Subtotal	*5,402.94*	*4,411.32*	*-991.62*
Total	**9,460.92**	**7,628.71**	**-1,833.32**

Figure 69. Map of change in public-supply returns by subbasin from 2010 to 2015 in Alabama, in MGD.

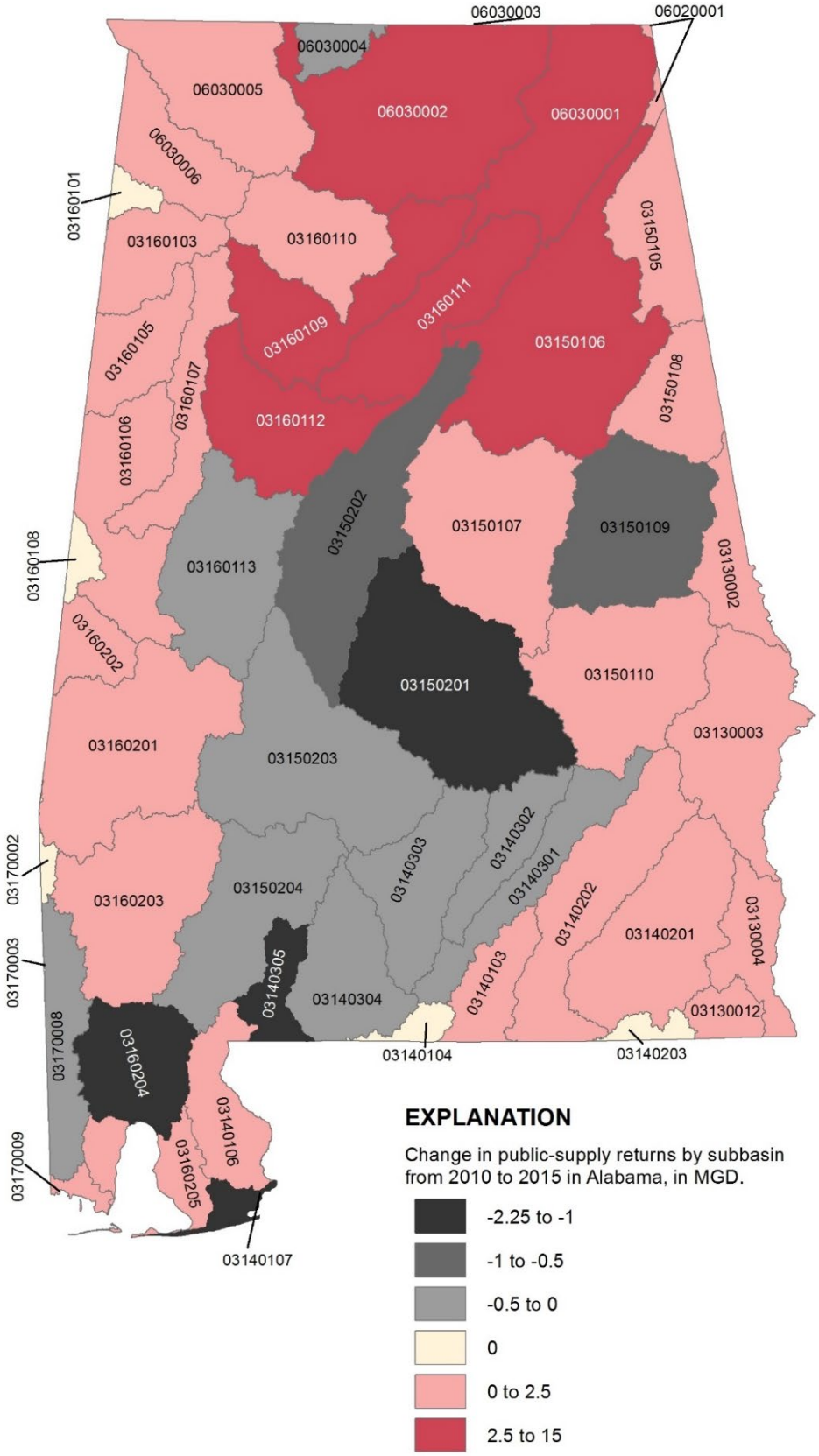


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Table 81. Change in public-supply returns by subbasin from 2010 to 2015 in Alabama, in MGD.

Hydrologic subregion and subbasin	2010 Total Returns	2015 Total Returns	Total Diff 2010 to 2015
Apalachicola			
03130002	4.02	4.74	0.73
03130003	5.53	5.60	0.07
03130004	4.18	4.45	0.27
03130012	1.62	2.18	0.56
Subtotal	*15.34*	*16.97*	*1.63*
Chocawhatchee-Escambia			
03140103	1.35	1.35	0.00
03140104	0.00	0.00	0.00
03140106	2.32	2.99	0.67
03140107	6.44	5.11	-1.33
03140201	12.26	13.10	0.84
03140202	5.84	5.99	0.15
03140203	0.00	0.00	0.00
03140301	1.95	1.47	-0.48
03140302	0.41	0.31	-0.10
03140303	1.92	1.68	-0.24
03140304	2.33	2.02	-0.31
03140305	2.92	0.92	-2.00
Subtotal	*37.73*	*34.93*	*-2.80*
Alabama			
03150105	1.83	1.84	0.02
03150106	39.08	42.70	3.62
03150107	10.33	10.86	0.53
03150108	0.43	0.46	0.03
03150109	6.00	5.27	-0.73
03150110	12.93	13.32	0.39
03150201	39.98	37.80	-2.18
03150202	28.28	27.47	-0.81
03150203	0.46	0.41	-0.04
03150204	1.08	0.80	-0.28
Subtotal	*140.40*	*140.93*	*0.54*
Mobile-Tombigbee			
03160101	0.00	0.00	0.00
03160103	1.49	1.78	0.29
03160105	0.81	1.84	1.03
03160106	0.80	1.00	0.20
03160107	1.42	1.62	0.21
03160108	0.00	0.00	0.00
03160109	10.80	13.41	2.61
03160110	0.38	0.46	0.08
03160111	92.76	96.44	3.68
03160112	61.32	64.79	3.48
03160113	4.94	4.77	-0.17
03160201	2.32	3.59	1.27
03160202	1.12	1.38	0.26
03160203	1.60	2.81	1.20
03160204	45.19	43.61	-1.58
03160205	2.55	3.12	0.57
Subtotal	*227.51*	*240.64*	*13.13*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.37	0.29	-0.08
03170009	0.97	1.53	0.56
Subtotal	*1.34*	*1.82*	*0.48*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	12.82	19.19	6.38
06030002	68.48	81.89	13.41
06030003	0.00	0.00	0.00
06030004	0.33	0.09	-0.25
06030005	16.68	18.84	2.16
06030006	3.57	4.29	0.72
Subtotal	*101.87*	*124.29*	*22.42*
Total	**524.19**	**559.58**	**35.40**

Figure 70. Map of change in industrial, thermoelectric, and mining returns by subbasin from 2010 to 2015 in Alabama, in MGD.

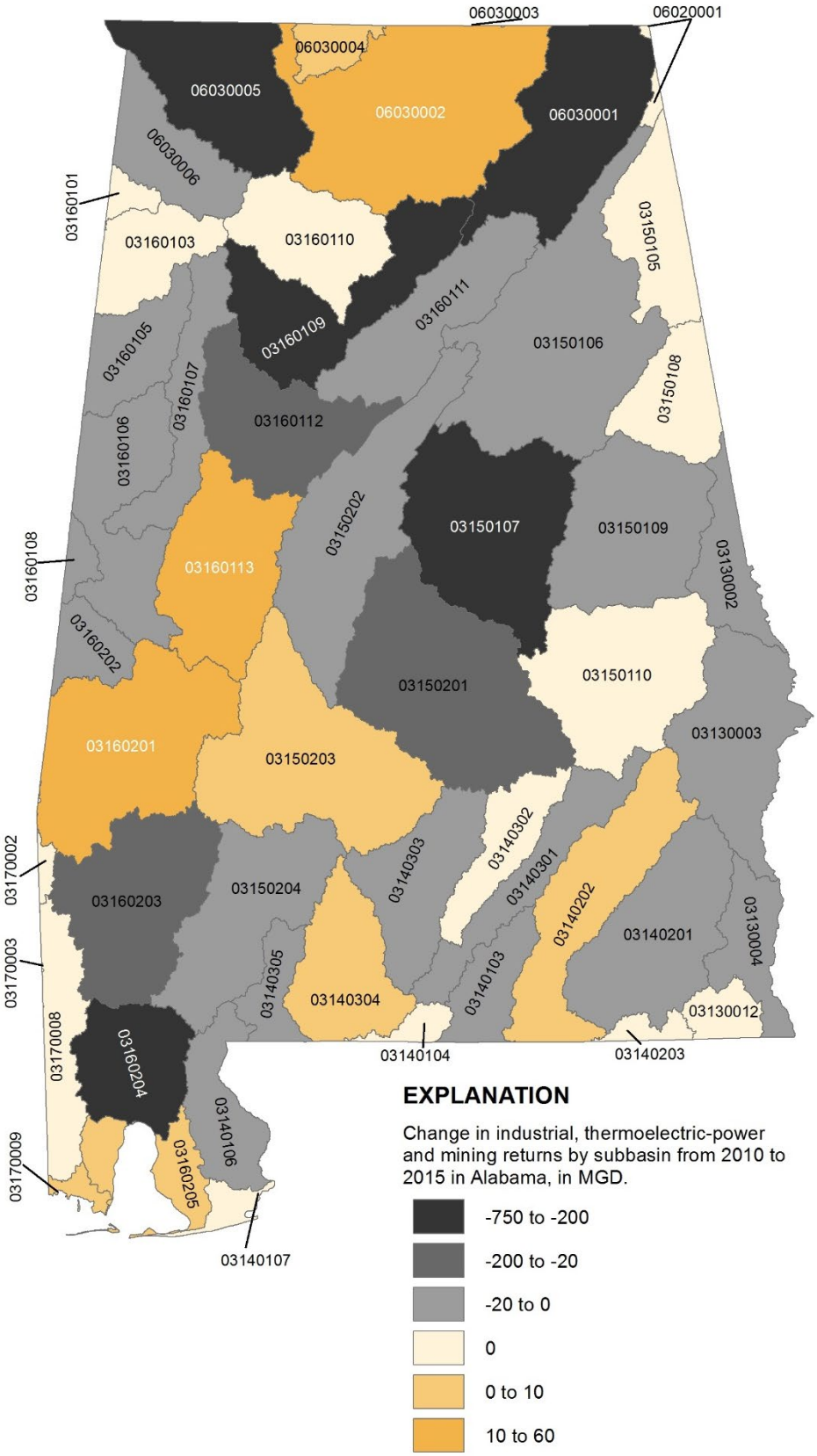


Table 82. Change in industrial, thermoelectric, and mining returns by subbasin from 2010 to 2015 in Alabama, in MGD.

Hydrologic subregion and subbasin	2010 Total Returns	2015 Total Returns	Total Diff 2010 to 2015
Apalachicola			
03130002	2.15	0.00	-2.15
03130003	21.23	19.79	-1.43
03130004	81.54	77.38	-4.16
03130012	0.00	0.00	0.00
Subtotal	*104.92*	*97.18*	*-7.74*
Chocawhatchee-Escambia			
03140103	0.18	0.00	-0.18
03140104	0.00	0.00	0.00
03140106	0.38	0.00	-0.38
03140107	0.00	0.00	0.00
03140201	3.70	2.90	-0.79
03140202	0.96	0.97	0.01
03140203	0.00	0.00	0.00
03140301	0.18	0.12	-0.05
03140302	0.00	0.00	0.00
03140303	0.04	0.03	-0.02
03140304	32.51	34.83	2.32
03140305	0.10	0.03	-0.08
Subtotal	*38.06*	*38.88*	*0.82*
Alabama			
03150105	0.00	0.00	0.00
03150106	159.63	140.43	-19.20
03150107	674.10	469.53	-204.56
03150108	0.00	0.00	0.00
03150109	0.25	0.16	-0.09
03150110	0.00	0.00	0.00
03150201	93.15	71.25	-21.90
03150202	0.85	0.06	-0.79
03150203	18.93	19.78	0.85
03150204	49.84	45.73	-4.11
Subtotal	*996.75*	*746.94*	*-249.80*
Mobile-Tombigbee			
03160101	0.00	0.00	0.00
03160103	0.00	0.00	0.00
03160105	1.84	0.30	-1.54
03160106	0.34	0.17	-0.18
03160107	0.02	0.00	-0.02
03160108	3.10	1.28	-1.82
03160109	868.77	624.82	-243.95
03160110	0.00	0.00	0.00
03160111	20.59	16.47	-4.12
03160112	72.59	31.59	-41.01
03160113	357.03	371.14	14.11
03160201	47.50	69.49	22.00
03160202	0.19	0.11	-0.08
03160203	116.64	71.35	-45.29
03160204	1,003.73	708.38	-295.35
03160205	3.21	3.55	0.34
Subtotal	*2,495.55*	*1,898.64*	*-596.92*
Pascagoula			
03170002	0.00	0.00	0.00
03170003	0.00	0.00	0.00
03170008	0.00	0.00	0.00
03170009	0.39	0.47	0.07
Subtotal	*0.39*	*0.47*	*0.07*
Middle Tennessee-Hiwassee			
06020001	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk			
06030001	1,090.31	359.39	-730.91
06030002	2,874.19	2,930.38	56.19
06030003	0.00	0.00	0.00
06030004	0.00	0.01	0.01
06030005	1,333.10	995.89	-337.22
06030006	3.46	1.35	-2.11
Subtotal	*5,301.07*	*4,287.02*	*-1,014.05*
Total	**8,936.73**	**7,069.12**	**-1,867.61**

Summary of Returns

Water returns for 2 major sectors— the industrial, thermoelectric, and mining sector and the public supply sector— were estimated for 2015. NPDES data for permitted discharge sites was compiled from the EPA's DMR Loading tool as well as OWRs AWURP database, eWater, and ADEM's online eFile system.

Total returns were approximately 7,629 MGD during 2015. The industrial, thermoelectric, and mining sector accounted for 93 percent (7,069 MGD) and public supply accounted for the remaining 7 percent (560 MGD). The counties with the largest total returns are Limestone (2,847 MGD), Colbert (1,001 MGD), Mobile (757 MGD), and Walker (630 MGD) Counties. The subbasin with the largest returns for 2015 are the Wheeler Lake (06030002; 3,012 MGD), the Pickwick Lake (06030005; 1,015 MGD), the Mobile-Tensaw (03160204; 752 MGD) and the Mulberry Fork (03160109; 638 MGD).

The counties with the largest public supply returns are Jefferson (151 MGD), Madison (47 MGD), and Mobile (44 MGD) Counties. The subbasins with the largest total returns are the Locust Fork (03160111; 96 MGD), the Wheeler Lake (06030002; 82 MGD), the Upper Black Warrior (03160112; 65 MGD), the Mobile-Tensaw (03160204; 44 MGD) and the Middle Coosa (03150106; 43 MGD) subbasins.

The counties with the largest industrial, thermoelectric, and mining returns are Limestone (2,840 MGD), Colbert (996 MGD), Mobile (714 MGD), Walker (624 MGD) and Shelby (460 MGD) Counties. The subbasins with the largest industrial, thermoelectric, and mining returns are the Wheeler Lake (06030002; 2,930 MGD), the Pickwick (06030005; 996 MGD), the Mobile-Tensaw (03160204; 708 MGD), the Mulberry Fork (03160109; 625 MGD), and the Lower Coosa (03150107; 470 MGD) subbasins.

Total water returns decreased 19 percent from 2010 to 2015 from 9,641 MGD in 2010 to 7,629 MGD in 2015. Public-supply returns increased 7 percent from 2010 to 2015 from 524 MGD in 2010 to 560 MGD in 2015. Industrial, thermoelectric, and mining returns decreased 21 percent from 2010 to 2015 from 8,937 MGD to 7,069 MGD in 2015 due in part to the closure of some industrial and thermoelectric-power facilities.

Net Water Demands (Consumption)

A critical aspect of this report was to develop consumptive use estimates for each subbasin. This report has summarized water withdrawals for each subbasin for 8 sectors of water use (public supply, self-supplied residential, irrigation, aquaculture, livestock, industrial, mining and thermoelectric power) as well as returns for two sectors; the public supply sector and the industrial, thermoelectric, and mining sector. Consumptive use was then calculated as the difference between surface-water withdrawals and water returns.

The monthly public-supply and residential water withdrawal estimates were developed based on an analysis of reported data as previously detailed in this report. Water sold to or purchased from other public suppliers was not included in this study.

Self-supplied residential withdrawals are not reported as part of the AWURP and are not collected by any other state or federal agency. Since this data is unavailable, self-supplied residential withdrawals estimated at the county level were aggregated to the subbasin level.

The agriculture sector consists of the aquaculture, irrigation and livestock sectors. The average estimates of water withdrawals for the livestock and aquaculture subsectors was applied to each month to develop monthly withdrawal estimates. As for the irrigation subsector, the baseline data that was used to develop the 2015 annual withdrawal estimates was analyzed and a percent of average for each month was developed, resulting in a “bell curve” for this subsector. Those percentages were then multiplied to the annual average, to estimated monthly withdrawals. It was assumed for this report that all agriculture water withdrawals were completely consumptive and that no returns occurred.

The industrial, miming, and thermoelectric withdrawal estimates by subbasin were primarily based on site-specific monthly reported data through the AWURP. Subbasin estimates for mining withdrawals were aggregated from the county estimates with the annual average withdrawal applied for each month.

For a detailed summary of water withdrawals, returns, and net consumption monthly by county and subbasin, respectively, according to source of water and water-use sector, see Appendices D and E.

Total Net Demand

The geographic distribution of the total net demand for 2015 is shown monthly in table 83. The total net demand for 2015 is 114 MGD. The subbasins with the largest net demands for 2015 are the Mulberry Fork (03160109; 80 MGD), the Escatawpa (03170008; 53 MGD), and the Cahaba (03150202; 31 MGD) subbasins. The subbasins with the smallest net demands for 2015 are the Locust Fork (03160111; -75 MGD), the Mobile-Tensaw (03160204; -52 MGD), the Upper Black Warrior (03160112; -45 MGD), and the Upper Alabama (03150201; -22 MGD) subbasins (figure 71).

Public Supply Net Demand

The geographic distribution of the public-supply net demand for 2015 is shown monthly in table 84. The public-supply net demand for 2015 is -70 MGD. Although there is limited information on the specific reasons for the decrease in water demands for this sector other than natural variability in residential, industrial, and commercial water use within a public water system, the fact that 2015 had approximately 3 inches above average annual precipitation while 2010 had approximately 10 inches below average annual precipitation is a contributing factor.

The subbasins with the largest public-supply net demands for 2015 are the Escatawpa (03170008; 52 MGD), the Mulberry Fork (03160109; 36 MGD) and the Cahaba (03150202; 24 MGD) subbasins. The subbasins with the smallest public-supply net demands for 2015 are the Locust Fork (03160111; -62 MGD) and the Mobile-Tensaw (03160204; -44 MGD) subbasins (figure 72).

Agriculture Net Demand

The geographic distribution of the agriculture net demand for 2015 is shown monthly in table 85. The agriculture net demand for 2015 is 161 MGD. The subbasins with the largest net demands for 2015 are the Wheeler Lake (06030002; 13 MGD), the Middle Coosa (03150106; 12 MGD), the Lower Black Warrior (03160113; 11 MGD) the Middle Chattahoochee-Lake Harding (03130003; 10 MGD) and the Upper Alabama (0315020; 10 MGD) subbasins (figure 73).

Industrial, Thermoelectric, and Mining Net Demand

The geographic distribution of the industrial, thermoelectric, and mining net demand for 2015 is shown monthly in table 86. The industrial, thermoelectric and mining net demand for 2015 is 23 MGD. The subbasins with the largest net demands for 2015 are the Mulberry Fork (03160109; 42 MGD) the Lower Chattahoochee (03130004; 22 MGD), and the Wheeler Lake (06030002; 11 MGD) subbasins. The subbasins with the smallest industrial, thermoelectric, and mining net demands for 2015 are the Upper Black Warrior (03160112; -31 MGD), the Locust Fork (03160111; -16 MGD), and the Mobile Tensaw (03160204; -11 MGD) subbasins. (figure 74).

Figure 71. Map of total net demand in Alabama for 2015, in MGD.

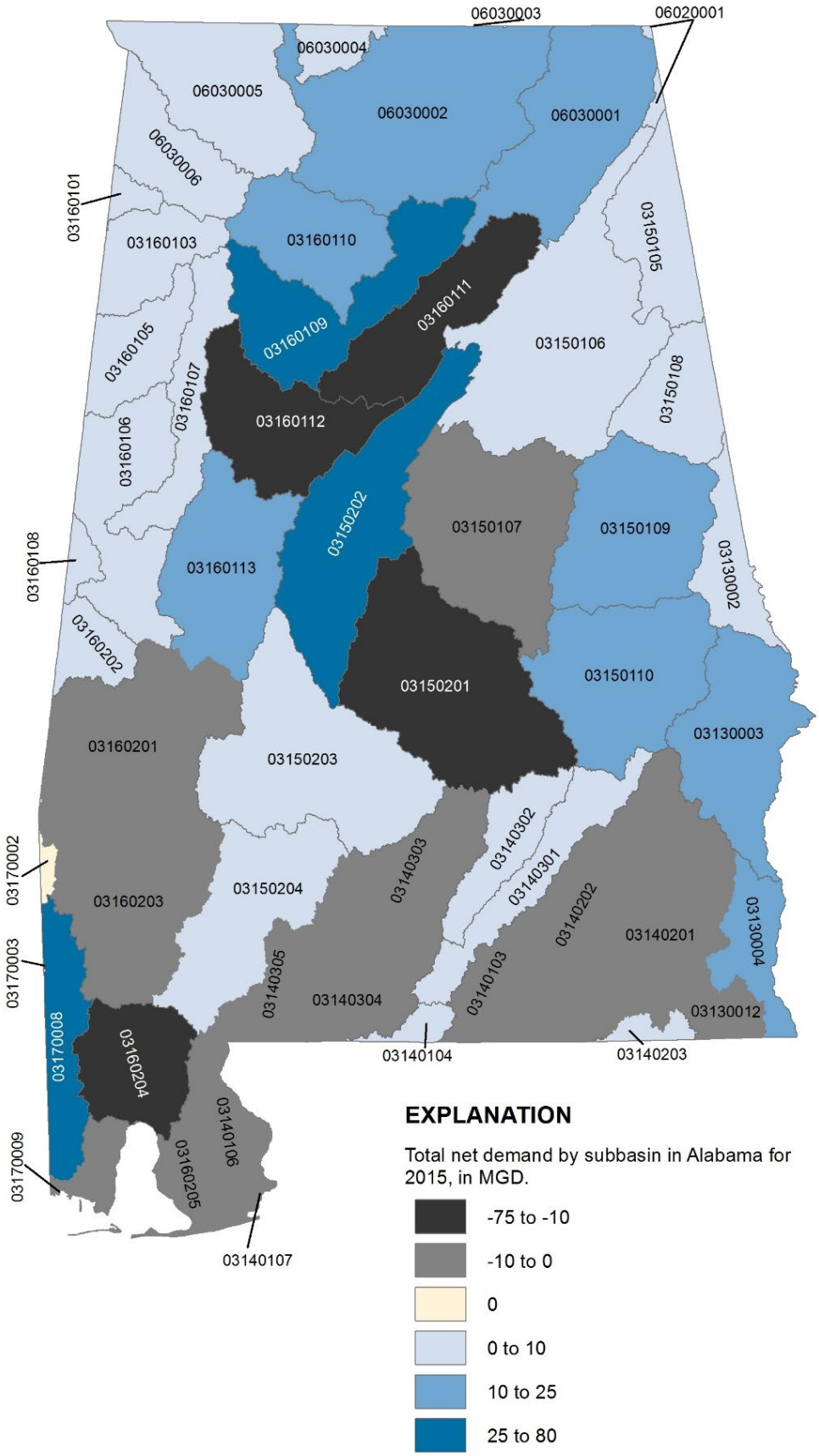


Table 83. Total net demand by subbasin in Alabama for 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	3.18	2.67	2.88	2.91	4.72	4.72	5.98	5.64	6.41	5.78	2.42	-0.64	3.89
03130003	9.72	1.34	17.60	3.40	25.50	33.03	26.83	34.37	27.73	23.08	11.31	0.81	17.98
03130004	23.27	23.64	7.06	-5.49	15.35	45.63	39.91	35.48	28.94	26.51	6.00	2.64	20.82
03130012	-2.15	-1.69	-1.35	-2.08	-0.73	0.21	0.14	0.40	-0.48	-0.77	-3.69	-3.01	-1.26
Subtotal	*34.01*	*25.95*	*26.19*	*-1.27*	*44.83*	*83.60*	*72.87*	*75.90*	*62.59*	*54.60*	*16.04*	*-0.21*	*41.43*
Chocawhatchee-Escambia													
03140103	-1.21	-0.83	-0.79	-0.66	0.67	1.30	1.24	1.11	0.92	0.25	-1.84	-1.15	-0.08
03140104	0.04	0.09	0.10	0.14	0.20	0.27	0.28	0.28	0.23	0.19	0.12	0.09	0.17
03140106	-2.90	-1.30	-2.49	-3.37	0.01	1.73	2.01	2.75	2.17	1.35	-1.89	-3.15	-0.42
03140107	-4.56	-3.33	-3.74	-3.86	-2.65	-3.44	-4.00	-2.29	-2.08	-2.33	-2.96	-3.17	-3.19
03140201	-13.50	-12.63	-10.40	-12.97	-5.19	0.76	3.16	1.86	-4.07	-5.26	-19.60	-18.74	-8.01
03140202	-5.30	-4.75	-3.80	-3.41	0.11	3.47	3.79	2.61	-1.20	-1.98	-6.17	-6.77	-1.93
03140203	0.16	0.28	0.42	0.57	1.00	1.53	1.59	1.36	0.84	0.67	0.38	0.27	0.76
03140301	-0.14	-0.50	0.44	-0.07	1.88	3.42	3.79	3.66	2.60	2.23	0.72	-0.18	1.50
03140302	0.23	0.28	0.35	0.59	1.02	1.55	1.65	1.32	0.70	0.54	0.21	0.13	0.72
03140303	-1.49	-1.11	-1.09	-0.93	0.36	1.08	1.36	1.25	0.89	0.32	-0.66	-1.71	-0.14
03140304	-15.99	-4.07	-8.57	-12.32	-0.52	-0.20	-0.40	0.56	-0.34	-0.37	5.72	-7.08	-3.60
03140305	-1.01	-0.81	-0.83	-0.87	-0.36	-0.36	-0.45	-0.25	-0.29	-0.47	-1.12	-1.18	-0.67
Subtotal	*-45.67*	*-28.70*	*-30.40*	*-37.17*	*-3.47*	*11.11*	*14.00*	*14.22*	*0.36*	*-4.84*	*-27.11*	*-42.65*	*-14.89*
Alabama													
03150105	0.23	1.66	1.08	1.07	4.86	6.75	7.09	7.29	6.55	5.40	1.87	1.10	3.76
03150106	-16.52	-3.48	-11.21	-25.88	22.76	31.56	24.51	31.04	10.56	13.05	-12.76	-25.76	3.00
03150107	-11.79	-11.43	-7.76	-8.18	1.87	5.68	5.61	5.69	6.91	1.96	-8.66	-13.29	-3.39
03150108	0.61	0.71	0.67	0.52	0.82	1.19	1.19	1.12	1.03	0.96	0.59	0.45	0.82
03150109	10.90	9.67	11.09	10.75	14.81	16.30	17.41	17.11	15.15	16.42	13.22	10.59	13.64
03150110	13.77	14.68	14.16	16.88	25.56	34.28	36.04	36.10	32.93	25.84	15.14	7.36	22.77
03150201	-47.55	-40.57	-39.40	-41.90	-16.10	-7.97	-1.01	3.69	3.92	-7.03	-30.21	-43.21	-22.20
03150202	20.82	23.69	19.12	11.89	39.06	41.51	38.77	40.97	41.09	43.88	30.47	20.49	31.01
03150203	6.90	2.83	5.44	4.52	10.02	13.41	12.69	13.14	7.47	10.26	5.00	7.11	8.24
03150204	2.05	3.44	0.19	6.05	4.04	3.61	8.95	4.78	8.28	4.73	1.23	-1.07	3.90
Subtotal	*-20.58*	*1.20*	*-6.63*	*-24.28*	*107.69*	*146.32*	*151.26*	*160.94*	*133.89*	*115.49*	*15.90*	*-36.22*	*61.56*
Mobile-Tombigbee													
03160101	0.08	0.08	0.10	0.11	0.15	0.20	0.21	0.18	0.13	0.11	0.09	0.08	0.13

Table 83. Total net demand by subbasin in Alabama for 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.65	0.41	-0.22	-0.17	0.82	0.98	0.87	1.00	1.33	1.27	0.56	-0.21	0.61
03160105	-3.15	-0.33	-1.01	-1.43	-2.09	0.83	2.08	1.74	1.79	1.52	0.92	0.32	0.10
03160106	0.62	0.63	0.65	0.96	3.06	5.02	5.07	4.20	2.22	1.98	0.25	-0.10	2.06
03160107	-0.15	-0.07	-0.83	-0.74	0.89	2.00	2.07	2.06	1.64	1.29	0.00	-0.68	0.63
03160108	1.18	0.27	0.62	0.22	3.05	3.10	3.11	3.07	3.02	3.01	0.66	-0.35	1.75
03160109	47.44	92.51	57.18	63.90	74.56	95.61	96.08	89.75	93.74	103.99	83.90	53.42	79.51
03160110	24.19	6.66	3.56	10.33	18.34	17.91	15.14	11.29	11.97	15.83	12.25	9.72	13.15
03160111	-76.32	-64.99	-100.75	-125.84	-66.55	-40.38	-46.08	-48.43	-53.80	-56.17	-79.78	-138.98	-74.87
03160112	-96.15	-78.75	-85.01	-94.28	-15.57	-25.71	-32.90	-25.81	-11.07	-4.55	-22.53	-52.45	-45.37
03160113	18.48	18.25	3.96	6.13	13.13	12.72	16.76	23.57	21.49	14.15	8.27	7.85	13.55
03160201	-7.78	-3.92	-8.22	-5.64	-0.52	1.18	-5.98	-1.13	6.71	3.97	-3.76	-14.53	-3.28
03160202	-0.09	-0.28	-0.70	-0.13	0.65	0.76	1.26	1.59	1.37	0.99	-0.17	-0.29	0.41
03160203	-8.75	-7.01	-7.20	-8.22	-7.65	-5.71	-3.60	-3.36	-6.49	-14.12	-11.32	-13.01	-8.14
03160204	-45.15	-54.09	-91.82	-82.34	-59.66	-48.27	-24.21	-27.77	-40.12	-40.74	-51.81	-61.75	-52.02
03160205	-7.03	-3.96	-4.36	-2.65	-0.09	1.78	3.44	2.88	1.12	-2.66	-6.10	-5.46	-1.91
Subtotal	*-151.94*	*-94.58*	*-234.06*	*-239.78*	*-37.47*	*22.02*	*33.33*	*34.84*	*35.06*	*29.86*	*-68.56*	*-216.40*	*-73.70*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	51.05	47.88	49.72	52.47	56.55	59.38	50.59	58.24	55.66	54.21	52.73	50.03	53.23
03170009	-1.30	-1.34	-1.57	-1.86	-1.25	-1.37	-1.95	-1.80	-1.76	-1.89	-2.48	-2.31	-1.74
Subtotal	*49.76*	*46.54*	*48.16*	*50.62*	*55.31*	*58.01*	*48.64*	*56.44*	*53.90*	*52.32*	*50.26*	*47.72*	*51.50*
Middle Tennessee-Hiwassee													
06020001	0.07	0.11	0.11	0.13	0.17	0.20	0.20	0.22	0.20	0.18	0.13	0.11	0.15
Subtotal	*0.07*	*0.11*	*0.11*	*0.13*	*0.17*	*0.20*	*0.20*	*0.22*	*0.20*	*0.18*	*0.13*	*0.11*	*0.15*
Middle Tennessee-Elk													
06030001	13.00	14.52	10.02	11.66	25.34	29.56	28.96	28.76	30.22	24.91	17.05	5.22	19.17
06030002	-27.81	-16.04	-61.39	-41.51	16.93	76.91	91.55	86.46	46.13	39.25	-4.07	-57.98	12.12
06030003	0.00	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	7.25	7.51	7.71	8.39	10.78	14.05	14.55	12.76	10.29	9.55	8.24	7.83	9.93
06030005	-1.66	1.21	-11.28	-11.55	7.48	6.48	17.60	16.62	15.92	13.57	1.12	-14.33	3.54
06030006	0.94	2.78	0.74	1.04	3.61	5.45	6.58	6.63	5.93	5.01	3.18	-0.06	3.49
Subtotal	*-8.28*	*9.98*	*-54.21*	*-31.96*	*64.14*	*132.45*	*159.24*	*151.23*	*108.49*	*92.28*	*25.52*	*-59.32*	*48.24*
Total	**-142.63**	**-39.51**	**-250.84**	**-283.70**	**231.20**	**453.70**	**479.53**	**493.80**	**394.49**	**339.90**	**12.18**	**-306.97**	**114.29**

Figure 72. Map of public-supply net demand in Alabama for 2015, in MGD.

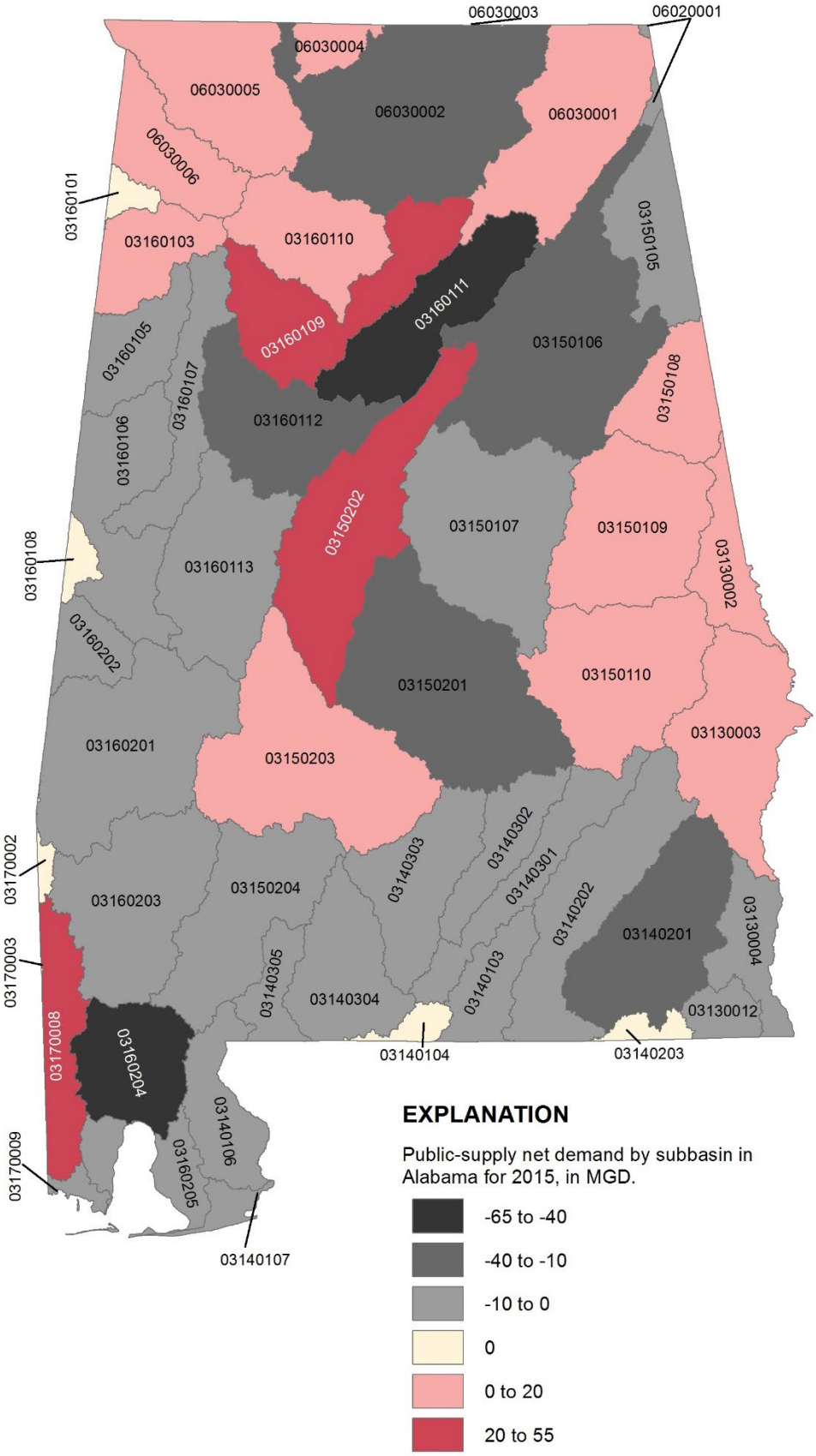


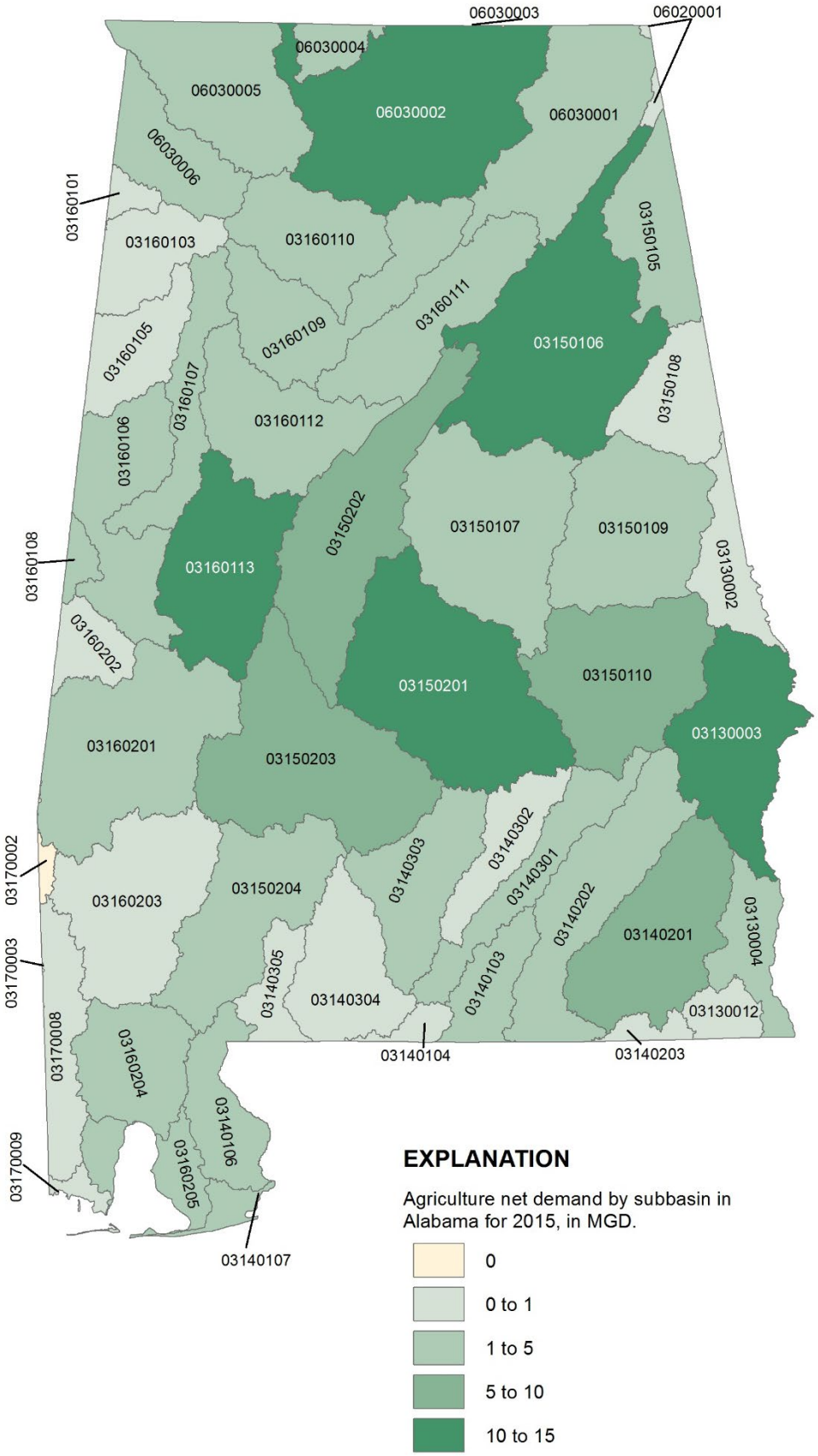
Table 84. Public-supply net demand by subbasin in Alabama for 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	3.00	2.37	2.51	2.38	3.92	3.71	4.94	4.52	5.44	4.96	2.00	-0.94	3.24
03130003	0.94	0.53	0.68	-0.97	2.39	2.68	3.73	2.72	3.07	2.93	-0.65	-2.88	1.27
03130004	-4.25	-3.75	-3.78	-5.34	-4.15	-4.02	-3.84	-3.29	-3.50	-3.39	-7.57	-6.49	-4.45
03130012	-2.36	-1.87	-1.73	-2.75	-2.02	-1.78	-1.95	-1.38	-1.59	-1.62	-3.93	-3.17	-2.18
Subtotal	*-2.67*	*-2.73*	*-2.32*	*-6.68*	*0.13*	*0.58*	*2.89*	*2.57*	*3.42*	*2.88*	*-10.14*	*-13.48*	*-2.12*
Chocawhatchee-Escambia													
03140103	-1.51	-1.41	-1.51	-1.74	-0.90	-0.71	-0.82	-1.03	-0.83	-1.24	-2.69	-1.76	-1.35
03140104	0.00	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	-3.17	-2.40	-3.86	-5.47	-3.13	-2.25	-2.04	-1.82	-1.80	-2.01	-3.68	-4.30	-2.99
03140107	-4.90	-4.03	-4.71	-5.46	-5.17	-6.57	-7.28	-5.57	-4.90	-4.60	-4.21	-3.93	-5.11
03140201	-12.83	-11.85	-11.75	-16.33	-12.94	-12.46	-10.99	-9.47	-9.85	-9.57	-20.53	-18.61	-13.10
03140202	-5.62	-5.61	-5.49	-6.18	-5.66	-5.71	-5.84	-5.54	-6.00	-5.58	-7.30	-7.30	-5.99
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	-1.60	-1.81	-1.52	-2.18	-1.56	-1.23	-1.05	-0.97	-0.87	-0.99	-1.86	-1.98	-1.47
03140302	-0.30	-0.29	-0.34	-0.33	-0.30	-0.30	-0.26	-0.24	-0.27	-0.29	-0.41	-0.45	-0.31
03140303	-1.96	-1.65	-1.92	-2.11	-1.68	-1.50	-1.41	-1.31	-1.32	-1.40	-1.59	-2.27	-1.68
03140304	-2.52	-2.52	-1.90	-2.54	-1.83	-1.87	-2.04	-1.52	-1.46	-1.53	-2.10	-2.35	-2.02
03140305	-1.06	-0.89	-0.93	-1.05	-0.70	-0.79	-0.89	-0.73	-0.72	-0.83	-1.20	-1.25	-0.92
Subtotal	*-35.46*	*-32.46*	*-33.94*	*-43.40*	*-33.89*	*-33.40*	*-32.60*	*-28.18*	*-28.02*	*-28.04*	*-45.57*	*-44.18*	*-34.93*
Alabama													
03150105	-0.55	-0.14	-1.15	-2.15	0.05	0.54	0.76	0.49	0.82	0.54	-0.81	-0.75	-0.20
03150106	-24.67	-20.22	-31.84	-43.12	-7.38	-4.14	1.66	1.86	3.00	0.98	-20.73	-35.43	-15.00
03150107	-5.15	-3.09	-4.40	-3.86	1.83	3.34	3.24	3.68	4.19	2.63	-1.83	-5.86	-0.43
03150108	0.30	0.38	0.32	0.15	0.38	0.66	0.65	0.62	0.62	0.57	0.25	0.13	0.42
03150109	10.37	9.13	10.40	9.49	12.97	13.81	14.85	14.77	13.35	14.89	12.57	10.03	12.24
03150110	11.70	11.02	9.32	9.90	14.48	19.70	21.01	20.67	20.20	15.29	9.72	3.68	13.90
03150201	-36.72	-39.35	-37.20	-42.13	-37.59	-36.54	-35.24	-34.07	-32.58	-31.86	-38.12	-52.24	-37.80
03150202	17.97	20.67	15.16	5.79	29.66	30.31	27.11	28.72	29.72	34.55	26.08	17.35	23.60
03150203	1.77	1.84	1.44	1.35	1.55	1.71	1.94	1.66	1.60	1.47	1.12	1.13	1.55
03150204	-0.67	-0.63	-0.76	-0.90	-0.85	-1.01	-0.77	-0.78	-0.75	-0.70	-0.66	-1.11	-0.80
Subtotal	*-25.64*	*-20.39*	*-38.71*	*-65.49*	*15.11*	*28.39*	*35.22*	*37.62*	*40.18*	*38.36*	*-12.41*	*-63.08*	*-2.52*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 84. Public-supply net demand by subbasin in Alabama for 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.43	0.21	-0.46	-0.49	0.38	0.48	0.35	0.44	0.81	0.82	0.33	-0.42	0.24
03160105	-2.97	-0.11	-0.49	-1.57	-2.62	-0.17	1.17	0.96	1.14	1.14	0.91	0.46	-0.18
03160106	-0.95	-1.08	-1.30	-1.62	-0.86	-0.65	-0.75	-0.57	-0.72	-0.55	-1.42	-1.55	-1.00
03160107	-1.55	-1.64	-2.58	-2.74	-1.67	-1.14	-1.14	-1.05	-0.94	-1.04	-1.75	-2.25	-1.62
03160108	0.00	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	14.42	33.08	25.52	24.84	39.25	49.84	49.61	47.00	46.65	40.07	31.88	26.15	35.68
03160110	23.43	5.91	2.61	9.00	16.41	15.33	12.48	8.90	10.22	14.34	11.38	8.95	11.62
03160111	-64.79	-47.74	-75.44	-113.66	-53.24	-32.82	-37.59	-40.51	-40.54	-43.50	-67.40	-121.48	-61.60
03160112	-55.76	-37.30	-47.82	-64.00	-2.21	7.95	0.84	5.03	7.19	8.74	-7.26	-36.05	-18.37
03160113	-6.34	-4.32	-6.07	-5.68	-3.78	-4.01	-2.84	-2.77	-2.62	-4.31	-7.15	-7.37	-4.77
03160201	-3.61	-3.81	-3.88	-4.73	-1.48	-1.50	-7.58	-1.18	-1.19	-1.24	-2.85	-10.04	-3.59
03160202	-1.69	-1.84	-2.37	-1.88	-1.28	-1.21	-0.71	-0.41	-0.60	-0.92	-1.77	-1.85	-1.38
03160203	-3.23	-2.54	-2.24	-1.91	-1.17	-1.74	-1.75	-1.10	-0.95	-7.20	-4.88	-4.01	-2.73
03160204	-43.04	-38.62	-51.53	-60.56	-56.46	-48.95	-31.38	-36.05	-34.35	-34.22	-36.33	-51.82	-43.61
03160205	-3.09	-3.03	-3.65	-3.64	-2.88	-2.69	-2.57	-3.00	-2.88	-3.01	-3.33	-3.69	-3.12
Subtotal	*-148.75*	*-102.83*	*-169.69*	*-228.62*	*-71.61*	*-21.28*	*-21.87*	*-24.31*	*-18.79*	*-30.87*	*-89.65*	*-204.98*	*-94.43*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	50.79	47.67	49.40	51.72	55.37	57.94	49.11	56.61	54.18	53.00	52.39	49.80	52.35
03170009	-1.18	-1.17	-1.37	-1.79	-1.38	-1.62	-1.69	-1.55	-1.43	-1.56	-1.84	-1.77	-1.53
Subtotal	*49.61*	*46.50*	*48.03*	*49.93*	*53.99*	*56.32*	*47.43*	*55.06*	*52.74*	*51.44*	*50.55*	*48.03*	*50.82*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	7.77	8.96	4.74	5.39	16.79	21.56	20.83	19.78	21.65	18.13	12.60	1.66	13.34
06030002	-33.93	-22.40	-56.21	-53.13	-4.43	14.96	19.32	15.16	23.15	20.79	-10.80	-60.29	-12.26
06030003	0.00	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	6.86	7.03	6.63	6.69	7.37	8.33	8.54	8.26	8.24	8.06	7.59	7.37	7.58
06030005	3.28	3.97	-10.08	-10.24	6.47	-0.11	8.65	7.71	10.38	8.95	-0.47	-13.18	1.28
06030006	1.66	3.22	1.71	1.83	3.06	4.68	5.13	5.40	5.64	4.99	3.53	0.49	3.44
Subtotal	*-14.35*	*0.79*	*-53.22*	*-49.48*	*29.25*	*49.41*	*62.47*	*56.31*	*69.07*	*60.92*	*12.44*	*-63.95*	*13.39*
Total	**-177.26**	**-111.12**	**-249.83**	**-343.74**	**-7.01**	**80.01**	**93.54**	**99.07**	**118.60**	**94.69**	**-94.78**	**-341.64**	**-69.79**

Figure 73. Map of agriculture net demand in Alabama for 2015, in MGD.


06030003
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03130003
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03130004
03170003
03140305
03140304
03140103
03130012
03170008
03140104
03140203
03160204
03140106
03170009
03160205
03140107
EXPLANATION
Agriculture net demand by subbasin in Alabama for 2015, in MGD.
0
0 to 1
1 to 5
5 to 10
10 to 15

Table 85. Agriculture net demand by subbasin in Alabama for 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.18	0.30	0.37	0.53	0.80	1.02	1.04	1.12	0.97	0.82	0.42	0.30	0.66
03130003	1.00	3.99	5.39	7.86	12.80	17.62	18.06	18.63	14.63	12.15	6.38	4.04	10.25
03130004	0.54	0.84	1.65	2.54	4.97	7.98	8.35	6.85	3.84	2.93	1.22	0.80	3.56
03130012	0.21	0.17	0.38	0.66	1.30	2.00	2.09	1.78	1.11	0.85	0.24	0.16	0.92
Subtotal	*1.93*	*5.30*	*7.79*	*11.60*	*19.87*	*28.61*	*29.54*	*28.39*	*20.55*	*16.75*	*8.26*	*5.30*	*15.38*
Chocawhatchee-Escambia													
03140103	0.30	0.58	0.71	1.08	1.57	2.02	2.06	2.13	1.76	1.49	0.84	0.61	1.27
03140104	0.04	0.09	0.10	0.14	0.20	0.27	0.28	0.28	0.23	0.19	0.12	0.09	0.17
03140106	0.27	1.10	1.37	2.09	3.14	3.98	4.04	4.56	3.97	3.36	1.79	1.15	2.58
03140107	0.34	0.69	0.97	1.60	2.52	3.13	3.27	3.27	2.82	2.28	1.25	0.76	1.92
03140201	1.72	2.22	3.86	5.89	10.86	16.39	17.18	14.56	9.22	7.15	3.27	2.18	7.91
03140202	1.18	1.77	2.69	3.78	6.60	10.01	10.40	8.96	5.61	4.51	2.37	1.73	4.99
03140203	0.15	0.27	0.41	0.57	0.99	1.52	1.58	1.36	0.83	0.67	0.37	0.27	0.75
03140301	0.61	0.74	1.02	1.59	2.52	3.45	3.57	3.36	2.50	2.06	0.99	0.76	1.94
03140302	0.49	0.52	0.66	0.88	1.28	1.81	1.87	1.51	0.93	0.79	0.59	0.54	0.99
03140303	0.49	0.56	0.84	1.19	2.06	2.60	2.78	2.58	2.22	1.73	0.95	0.57	1.55
03140304	0.23	0.24	0.32	0.62	0.91	1.11	1.13	1.19	1.02	0.85	0.36	0.27	0.69
03140305	0.08	0.09	0.12	0.22	0.36	0.45	0.46	0.51	0.45	0.37	0.13	0.09	0.28
Subtotal	*5.89*	*8.86*	*13.09*	*19.64*	*33.02*	*46.74*	*48.63*	*44.29*	*31.57*	*25.46*	*13.02*	*9.00*	*25.04*
Alabama													
03150105	0.77	1.80	2.24	3.22	4.82	6.21	6.33	6.81	5.73	4.86	2.69	1.85	3.96
03150106	2.19	4.57	6.23	9.36	15.03	19.92	20.58	20.82	16.91	13.90	7.22	4.70	11.83
03150107	0.78	1.32	1.92	3.17	5.19	7.01	7.24	7.16	5.62	4.58	2.08	1.37	3.97
03150108	0.31	0.33	0.35	0.37	0.44	0.52	0.53	0.50	0.41	0.39	0.34	0.33	0.40
03150109	0.60	0.58	0.78	1.33	1.99	2.62	2.71	2.49	1.86	1.55	0.74	0.62	1.49
03150110	1.12	2.69	3.88	6.02	10.12	13.62	14.07	14.47	11.77	9.59	4.46	2.73	7.91
03150201	3.60	4.90	6.21	8.43	12.67	16.78	17.34	16.51	12.85	10.79	6.51	4.98	10.16
03150202	2.78	2.89	3.85	5.98	9.24	11.02	11.49	12.08	11.18	9.16	4.25	2.98	7.27
03150203	3.74	4.59	5.11	5.92	7.59	9.48	9.67	9.30	7.52	6.78	5.27	4.62	6.64
03150204	0.26	0.55	0.66	0.90	1.31	1.62	1.65	1.86	1.66	1.42	0.80	0.56	1.11
Subtotal	*16.14*	*24.24*	*31.21*	*44.70*	*68.40*	*88.82*	*91.61*	*92.00*	*75.50*	*63.03*	*34.35*	*24.74*	*54.74*
Mobile-Tombigbee													
03160101	0.06	0.07	0.08	0.10	0.14	0.19	0.20	0.17	0.11	0.10	0.08	0.07	0.11

Table 85. Agriculture net demand by subbasin in Alabama for 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.22	0.21	0.24	0.32	0.44	0.51	0.52	0.56	0.52	0.45	0.23	0.21	0.37
03160105	0.20	0.18	0.27	0.39	0.66	0.95	0.99	0.88	0.61	0.49	0.21	0.18	0.50
03160106	1.19	1.15	1.59	2.10	3.36	5.02	5.23	4.13	2.36	1.94	1.24	1.14	2.54
03160107	1.15	1.32	1.49	1.75	2.31	2.89	2.96	2.86	2.34	2.08	1.50	1.32	2.00
03160108	2.92	2.92	2.94	2.95	2.99	3.04	3.04	3.01	2.95	2.94	2.92	2.92	2.96
03160109	0.93	0.94	1.03	1.53	1.84	2.08	2.11	2.06	1.79	1.61	1.10	1.01	1.51
03160110	0.73	0.73	0.92	1.30	1.90	2.55	2.63	2.36	1.72	1.46	0.84	0.74	1.50
03160111	1.14	0.96	1.29	2.64	3.89	4.57	4.68	5.12	4.70	3.91	1.37	1.06	2.96
03160112	0.79	1.49	2.04	3.15	5.01	6.30	6.56	6.69	5.79	4.70	2.52	1.57	3.90
03160113	9.76	10.14	10.30	10.97	11.57	12.02	12.06	12.27	11.89	11.52	10.56	10.23	11.11
03160201	1.33	1.28	1.35	1.68	1.96	2.07	2.09	2.24	2.19	2.00	1.38	1.31	1.74
03160202	0.41	0.39	0.42	0.59	0.68	0.73	0.73	0.76	0.71	0.65	0.44	0.42	0.58
03160203	0.24	0.23	0.26	0.44	0.54	0.59	0.60	0.62	0.57	0.51	0.29	0.26	0.43
03160204	0.44	0.92	1.31	2.10	3.43	4.36	4.54	4.70	4.08	3.30	1.62	0.96	2.66
03160205	0.85	1.48	2.26	3.74	6.29	7.89	8.29	8.44	7.44	5.91	2.81	1.58	4.77
Subtotal	*22.36*	*24.41*	*27.77*	*35.75*	*47.02*	*55.76*	*57.22*	*56.87*	*49.76*	*43.57*	*29.12*	*24.96*	*39.64*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.26	0.21	0.32	0.75	1.19	1.44	1.48	1.63	1.48	1.21	0.34	0.23	0.88
03170009	0.07	0.06	0.10	0.19	0.34	0.45	0.46	0.48	0.41	0.33	0.09	0.06	0.26
Subtotal	*0.33*	*0.27*	*0.43*	*0.95*	*1.53*	*1.89*	*1.94*	*2.12*	*1.89*	*1.54*	*0.44*	*0.30*	*1.14*
Middle Tennessee-Hiwassee													
06020001	0.07	0.11	0.12	0.14	0.17	0.20	0.20	0.22	0.20	0.18	0.14	0.11	0.15
Subtotal	*0.07*	*0.11*	*0.12*	*0.14*	*0.17*	*0.20*	*0.20*	*0.22*	*0.20*	*0.18*	*0.14*	*0.11*	*0.15*
Middle Tennessee-Elk													
06030001	1.72	1.95	2.28	3.48	4.76	5.55	5.64	6.18	5.67	4.88	2.51	2.03	3.90
06030002	3.09	3.07	5.80	9.64	18.08	27.06	28.31	24.66	16.20	12.57	4.45	2.97	13.06
06030003	0.00	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	0.40	0.49	1.09	1.71	3.42	5.73	6.02	4.51	2.05	1.50	0.66	0.47	2.35
06030005	1.37	1.40	2.25	3.63	6.14	8.70	9.14	7.70	5.17	4.05	2.04	1.47	4.44
06030006	0.50	0.53	0.75	1.01	1.66	2.46	2.56	2.16	1.37	1.12	0.62	0.52	1.28
Subtotal	*7.09*	*7.45*	*12.16*	*19.47*	*34.07*	*49.50*	*51.67*	*45.21*	*30.46*	*24.11*	*10.27*	*7.46*	*25.02*
Total	**53.82**	**70.65**	**92.57**	**132.25**	**204.08**	**271.51**	**280.80**	**269.10**	**209.94**	**174.64**	**95.60**	**71.86**	**161.12**

Figure 74. Map of industrial, thermoelectric, and mining net demand by subbasin in Alabama for 2015, in MGD.

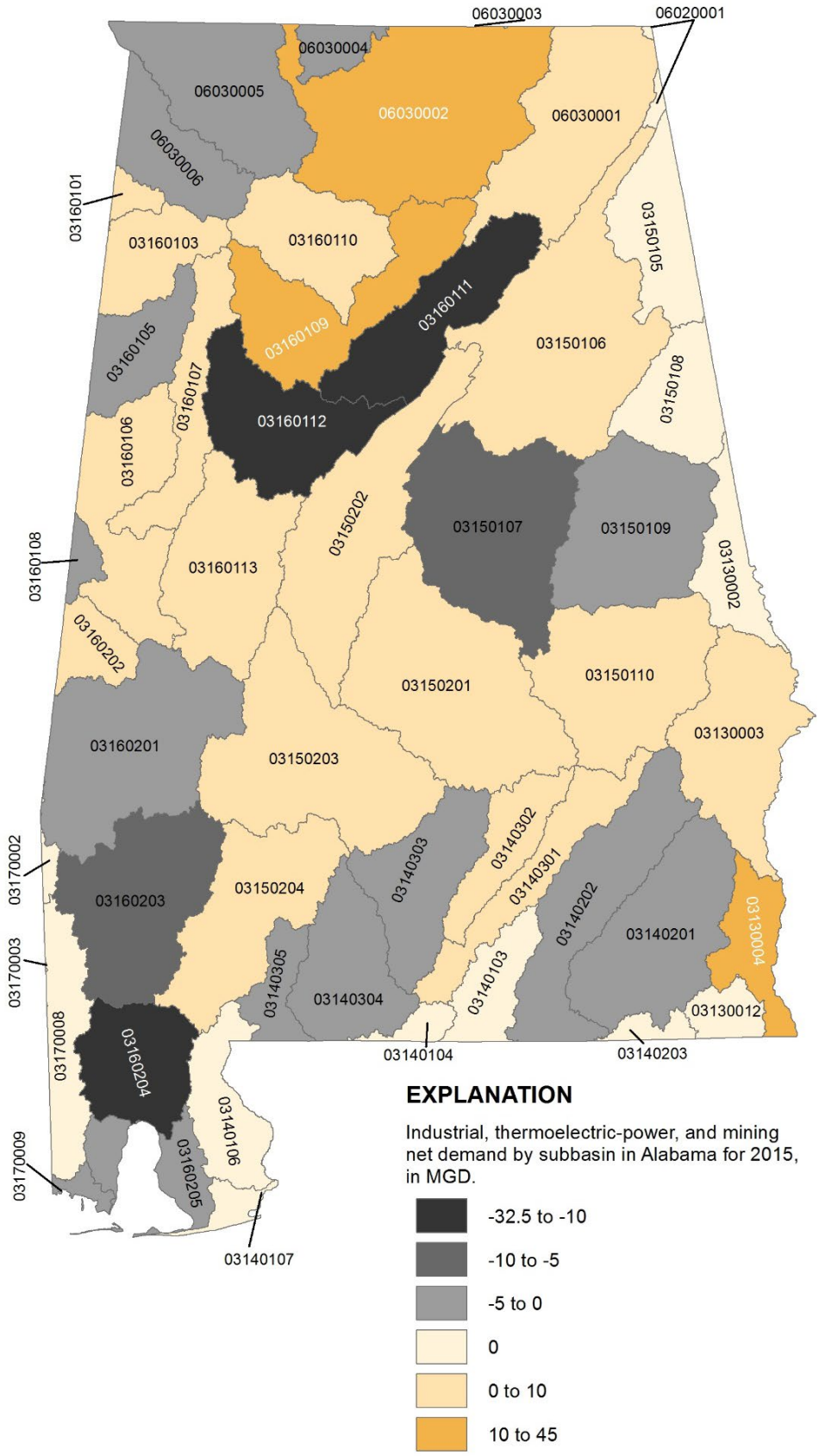


Table 86. Industrial, thermoelectric, and mining net demand by subbasin in Alabama for 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.00	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	7.78	-3.18	11.53	-3.49	10.31	12.73	5.04	13.03	10.03	8.00	5.58	-0.35	6.46
03130004	26.98	26.55	9.19	-2.70	14.53	41.67	35.40	31.92	28.60	26.97	12.35	8.33	21.70
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*34.75*	*23.37*	*20.72*	*-6.19*	*24.84*	*54.40*	*40.44*	*44.94*	*38.62*	*34.97*	*17.92*	*7.98*	*28.17*
Chocawhatchee-Escambia													
03140103	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140107	0.00	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	-2.39	-2.99	-2.51	-2.54	-3.12	-3.17	-3.03	-3.24	-3.45	-2.84	-2.35	-2.31	-2.83
03140202	-0.86	-0.91	-1.00	-1.00	-0.82	-0.82	-0.77	-0.81	-0.81	-0.90	-1.24	-1.20	-0.93
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	0.85	0.57	0.94	0.53	0.92	1.19	1.26	1.26	0.97	1.16	1.59	1.04	1.03
03140302	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
03140303	-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
03140304	-13.69	-1.79	-6.99	-10.40	0.40	0.57	0.51	0.90	0.10	0.31	7.46	-5.00	-2.28
03140305	-0.03	0.00	-0.02	-0.04	-0.01	-0.02	-0.03	-0.02	-0.02	-0.02	-0.05	-0.03	-0.02
Subtotal	*-16.10*	*-5.10*	*-9.56*	*-13.42*	*-2.60*	*-2.22*	*-2.03*	*-1.88*	*-3.18*	*-2.26*	*5.44*	*-7.47*	*-5.00*
Alabama													
03150105	0.00	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	5.96	12.17	14.39	7.87	15.10	15.78	2.27	8.36	-9.35	-1.84	0.75	4.97	6.17
03150107	-7.41	-9.66	-5.29	-7.49	-5.15	-4.67	-4.87	-5.15	-2.90	-5.24	-8.91	-8.80	-6.93
03150108	0.00	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	-0.06	-0.03	-0.10	-0.07	-0.15	-0.13	-0.15	-0.15	-0.06	-0.01	-0.09	-0.05	-0.09
03150110	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
03150201	-14.43	-6.12	-8.41	-8.20	8.81	11.79	16.89	21.25	23.65	14.04	1.40	4.05	5.44
03150202	0.07	0.12	0.12	0.13	0.15	0.18	0.17	0.16	0.19	0.17	0.14	0.16	0.15
03150203	1.39	-3.61	-1.11	-2.75	0.87	2.21	1.09	2.18	-1.65	2.02	-1.39	1.36	0.05
03150204	2.45	3.52	0.30	6.05	3.58	3.00	8.07	3.70	7.37	4.01	1.09	-0.52	3.59
Subtotal	*-11.08*	*-2.66*	*0.86*	*-3.50*	*24.18*	*29.11*	*24.43*	*31.31*	*18.21*	*14.11*	*-6.05*	*2.12*	*9.33*
Mobile-Tombigbee													
03160101	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

Table 86. Industrial, thermoelectric, and mining net demand by subbasin in Alabama for 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03160105	-0.38	-0.40	-0.79	-0.26	-0.13	0.05	-0.08	-0.10	0.04	-0.11	-0.20	-0.32	-0.22
03160106	0.38	0.57	0.37	0.48	0.56	0.65	0.59	0.64	0.58	0.59	0.43	0.32	0.51
03160107	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
03160108	-1.74	-2.66	-2.31	-2.73	0.07	0.07	0.07	0.07	0.07	0.07	-2.27	-3.27	-1.22
03160109	32.09	58.49	30.64	37.53	33.46	43.69	44.37	40.68	45.31	62.31	50.92	26.26	42.32
03160110	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
03160111	-12.67	-18.21	-26.60	-14.82	-17.20	-12.13	-13.17	-13.03	-17.95	-16.57	-13.75	-18.55	-16.22
03160112	-41.19	-42.93	-39.23	-33.43	-18.37	-39.96	-40.30	-37.52	-24.05	-17.99	-17.79	-17.96	-30.89
03160113	15.06	12.43	-0.27	0.84	5.34	4.70	7.55	14.07	12.23	6.93	4.87	4.99	7.21
03160201	-5.49	-1.39	-5.69	-2.59	-0.99	0.61	-0.49	-2.19	5.71	3.21	-2.29	-5.79	-1.43
03160202	1.20	1.16	1.26	1.16	1.24	1.24	1.24	1.25	1.25	1.26	1.16	1.15	1.21
03160203	-5.76	-4.71	-5.23	-6.74	-7.02	-4.56	-2.44	-2.89	-6.11	-7.43	-6.72	-9.26	-5.84
03160204	-2.55	-16.38	-41.60	-23.88	-6.63	-3.68	2.64	3.58	-9.85	-9.81	-17.10	-10.90	-11.07
03160205	-4.79	-2.41	-2.97	-2.75	-3.51	-3.42	-2.28	-2.57	-3.43	-5.56	-5.58	-3.34	-3.55
Subtotal	*-25.55*	*-16.16*	*-92.15*	*-46.90*	*-12.89*	*-12.45*	*-2.03*	*2.28*	*4.09*	*17.17*	*-8.03*	*-36.38*	*-18.90*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170009	-0.19	-0.24	-0.30	-0.26	-0.21	-0.20	-0.72	-0.74	-0.74	-0.66	-0.74	-0.60	-0.47
Subtotal	*-0.19*	*-0.24*	*-0.30*	*-0.26*	*-0.21*	*-0.20*	*-0.72*	*-0.74*	*-0.74*	*-0.66*	*-0.74*	*-0.60*	*-0.47*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	3.50	3.61	3.01	2.80	3.80	2.45	2.48	2.80	2.90	1.89	1.95	1.53	1.93
06030002	3.03	3.28	-10.98	1.99	3.28	34.89	43.92	46.64	6.77	5.90	2.29	-0.66	11.32
06030003	0.00	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	-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
06030005	-6.32	-4.16	-3.45	-4.93	-5.13	-2.11	-0.19	1.21	0.37	0.56	-0.45	-2.62	-2.18
06030006	-1.23	-0.98	-1.72	-1.79	-1.12	-1.69	-1.11	-0.93	-1.08	-1.10	-0.97	-1.07	-1.23
Subtotal	*-1.02*	*1.75*	*-13.15*	*-1.95*	*0.82*	*33.54*	*45.10*	*49.71*	*8.96*	*7.25*	*2.81*	*-2.83*	*9.83*
Total	**-19.18**	**0.96**	**-93.59**	**-72.22**	**34.13**	**102.18**	**105.19**	**125.63**	**65.96**	**70.57**	**11.36**	**-37.20**	**22.96**

Comparison of Net Water Demands (Consumption)

Total Net Demand Comparison

The geographic distribution of the comparison of total net demands from 2010 to 2015 is shown in table 87. Overall total net demand increased 32 MGD (39%) from 2010 to 2015 from 82 MGD in 2010 to 114 MGD in 2015. The subbasins with the largest increases in total net demand from 2010 to 2015 are the Upper Black Warrior (03160112; 52 MGD), the Upper Alabama (03150201; 34 MGD) and the Guntersville Lake (06030001; 33 MGD) subbasins. The subbasins with the largest decreases in total net demand from 2010 to 2015 are the Locust Fork (03160111; -28 MGD), the Escatawpa (03170008; -17 MGD), the Middle Tombigbee-Chickasaw (03160201; -17 MGD), and the Mulberry Fork (03160109; -16 MGD) subbasins (figure 75).

Public-Supply Net Demand Comparison

The geographic distribution of the comparison of public-supply net demands from 2010 to 2015 is shown in table 88. Public-supply net demand decreased 97 MGD (-350%) from 2010 to 2015 from 28 MGD in 2010 to -70 MGD in 2015. The subbasins with the largest increases in total net demand from 2010 to 2015 are the Upper Black Warrior (03160112; 11 MGD), the Upper Alabama (03150201; 2 MGD), the Middle Alabama (03150203; 2 MGD), the Escambia (03140305; 2 MGD), and the Mobile Tensaw (03160204; 2 MGD) subbasins. The subbasins with the largest decreases in public-supply demand from 2010 to 2015 are the Locust Fork (03160111; -32 MGD), the Wheeler Lake (06030002; -22 MGD), and the Escatawpa (03170008; -18 MGD) subbasins (figure 76).

Agriculture Net Demand Comparison

The geographic distribution of the comparison of agriculture net demands from 2010 to 2015 is shown in table 89. Agriculture net demand decreased 30 MGD (16%) from 2010 to 2015 from 191 MGD in 2010 to 161 MGD in 2015. The subbasins with the largest increases in agriculture net demand from 2010 to 2015 are the Upper Alabama (03150201; 3 MGD), the Noxubee (03160108; 2 MGD), and the Wheeler Lake (06030002; 2 MGD) subbasins. The subbasins with the largest decreases in agriculture net demand from 2010 to 2015 are the Lower Black Warrior (03160113; -14 MGD), the Middle Alabama (03150203; -10 MGD), the Middle Tombigbee-Lubbub (03160106; -8 MGD) and the Middle Coosa (03150106; -7 MGD) subbasins (figure 77).

Industrial, Thermoelectric, and Mining Net Demand Comparison

The geographic distribution of the comparison of industrial, thermoelectric, and mining net demands from 2010 to 2015 is shown in table 90. Industrial, thermoelectric, and mining demand increased 160 MGD (117%) from 2010 to 2015 from -137 MGD in 2010 to 23 MGD in 2015. The subbasins with the largest increases in industrial, thermoelectric and mining net demand are the Upper Black Warrior (03160112; 41 MGD), the Guntersville (06030001; 40 MGD), and the Upper Alabama (03150201; 29 MGD). The subbasins with the largest decreases in industrial, thermoelectric and mining net demand are the Middle Tombigbee-Chickasaw (03160201; -14 MGD) and the Mulberry Fork (03160109; -13 MGD) subbasins (figure 78).

Figure 75. Map of change in total net demand by subbasin in Alabama from 2010 to 2015, in MGD.

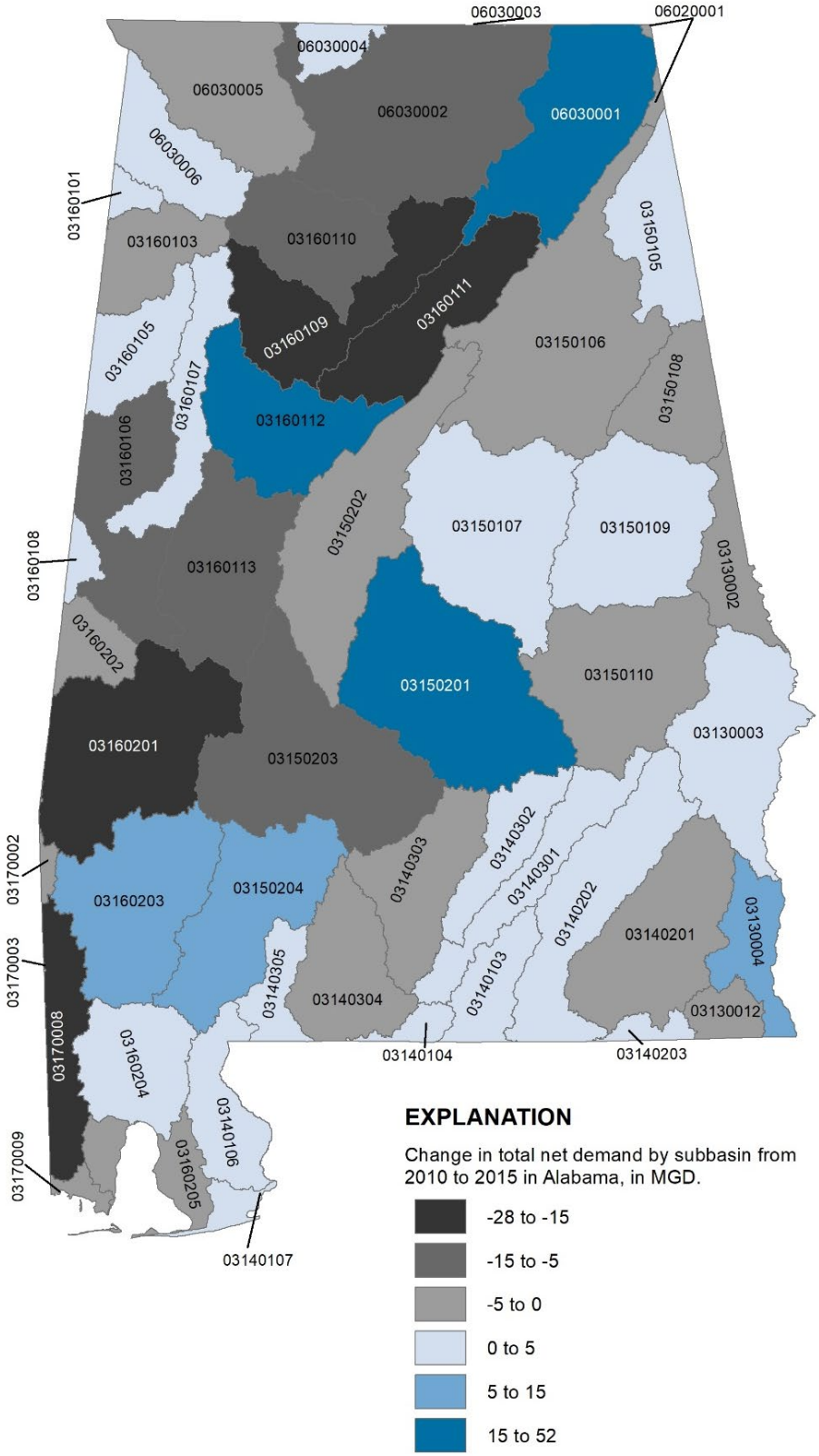


Table 87. Change in total net demand by subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	1.39	0.42	-0.32	3.79	1.12	3.31	3.16	3.53	4.55	1.42	4.17	7.40	-2.82
03130003	3.52	11.23	-2.40	9.42	-12.98	-10.08	2.16	-9.96	-4.38	-2.14	-1.98	10.06	0.72
03130004	-35.51	-39.35	-18.85	-1.19	-20.17	-21.78	-10.84	-5.25	-3.84	-14.21	-4.01	3.70	14.24
03130012	-0.79	-1.44	-0.09	1.81	1.15	1.65	2.24	1.03	1.08	0.78	2.86	2.03	-1.02
Subtotal	*-31.39*	*-29.13*	*-21.66*	*13.83*	*-30.89*	*-26.89*	*-3.27*	*-10.65*	*-2.60*	*-14.13*	*1.03*	*23.19*	*11.12*
Escambia													
03140103	-1.30	-2.35	-0.90	0.20	-0.59	-1.00	-0.53	-0.49	-0.40	0.22	1.50	0.58	0.42
03140104	0.01	-0.03	-0.03	0.01	-0.02	-0.03	0.00	-0.07	-0.03	-0.04	-0.04	-0.03	0.03
03140106	-0.93	-2.43	0.21	3.70	0.31	-0.09	0.02	-1.94	-0.69	-0.56	0.11	1.67	0.06
03140107	-0.62	-2.06	-1.40	0.21	-1.08	-2.15	-1.55	-3.19	-2.29	-2.25	-2.43	-2.10	1.75
03140201	-4.62	-8.23	-0.98	8.32	2.27	2.00	1.90	-0.61	3.69	1.92	11.77	10.90	-2.32
03140202	-2.06	-1.76	-2.21	-0.22	-1.35	-1.69	-0.61	-2.42	0.03	-1.03	1.70	1.46	0.87
03140203	0.00	-0.09	-0.18	-0.15	-0.40	-0.63	-0.58	-0.59	-0.26	-0.24	-0.14	-0.10	0.28
03140301	-1.49	-1.11	-1.69	1.04	0.21	0.62	0.74	0.05	-0.11	-0.09	0.16	0.79	0.08
03140302	-0.49	-0.59	-0.59	-0.39	-0.51	-0.66	-0.59	-0.53	-0.20	-0.28	-0.03	-0.03	0.41
03140303	-0.91	-1.36	-0.42	1.26	0.41	0.29	0.94	0.92	1.21	1.01	1.08	1.44	-0.48
03140304	19.14	6.21	18.64	8.60	-5.38	-1.24	0.29	-6.25	2.85	2.74	-9.82	1.67	-3.09
03140305	-3.76	-4.49	-3.21	-1.64	-2.51	-1.39	-1.29	-1.53	-1.30	-1.40	-1.21	-1.49	2.10
Subtotal	*2.97*	*-18.29*	*7.26*	*20.93*	*-8.65*	*-5.96*	*-1.27*	*-16.65*	*2.48*	*0.00*	*2.65*	*14.77*	*0.11*
Alabama													
03150105	0.21	-1.64	-0.44	2.55	-0.21	0.16	1.16	-0.53	-0.80	-1.34	0.38	0.32	0.03
03150106	-9.23	-29.38	-25.61	30.47	-13.62	-5.39	-0.99	-6.63	17.68	14.67	18.12	20.17	-1.09
03150107	-8.70	-14.16	-15.52	21.60	-6.71	-4.29	-2.18	-6.82	-4.93	-2.18	3.53	8.64	1.23
03150108	0.21	0.02	0.04	0.53	0.56	0.66	0.73	0.64	0.45	0.32	0.53	0.62	-0.44
03150109	-1.77	-2.32	-3.75	1.01	-3.02	-0.24	0.49	-0.54	3.43	-2.35	-2.67	2.54	0.79
03150110	1.30	0.04	2.74	8.43	1.12	-3.86	-0.61	-0.57	2.78	2.95	6.28	10.48	-2.55
03150201	-25.51	-33.16	-32.64	-48.27	-35.09	-33.06	-53.55	-46.85	-46.36	-33.77	-16.76	-1.79	33.97
03150202	1.08	-13.75	-3.57	23.30	-4.50	-5.03	7.28	1.04	5.11	-4.86	-0.83	4.07	-0.74
03150203	2.96	4.81	6.77	12.15	6.80	6.10	8.10	7.23	6.36	7.36	10.57	4.82	-7.00
03150204	-5.52	-8.72	-13.54	-4.11	-4.90	-3.16	-7.63	-7.86	-11.38	-10.46	-7.31	-6.96	7.67
Subtotal	*-44.96*	*-98.26*	*-85.52*	*47.66*	*-59.58*	*-48.11*	*-47.22*	*-60.90*	*-27.66*	*-29.67*	*11.84*	*42.90*	*31.87*
Mobile-Tombigbee													
03160101	0.01	0.00	0.00	0.00	-0.03	-0.07	-0.06	-0.05	0.00	0.01	0.00	0.00	0.02

Table 87. Change in total net demand by subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	-0.27	-0.44	0.39	0.54	-0.62	0.02	0.77	0.47	-0.10	0.01	0.62	1.25	-0.22
03160105	4.29	1.17	0.68	2.38	2.75	-0.36	-1.72	-8.12	-5.08	0.57	-0.11	0.71	0.24
03160106	8.02	7.88	7.57	8.46	7.23	5.81	6.16	6.60	8.19	8.41	9.36	9.67	-7.77
03160107	-0.62	-0.77	0.62	0.90	-1.26	-1.33	-0.85	-1.00	-0.66	-0.58	0.03	0.59	0.42
03160108	-4.44	-12.69	-10.72	-4.60	-3.06	-3.65	-2.01	-1.98	-1.92	-1.92	0.43	1.43	3.76
03160109	56.79	-0.79	13.55	35.19	9.34	18.42	24.87	43.28	10.93	-6.25	-11.88	7.13	-15.88
03160110	-17.03	0.66	8.54	-2.52	-10.03	-3.91	6.77	18.37	24.85	20.46	13.10	29.46	-7.35
03160111	-18.88	-41.81	-7.60	86.42	13.18	3.05	29.66	34.35	33.20	46.50	56.47	95.78	-27.56
03160112	-54.56	-65.03	-48.43	-18.99	-90.24	-50.56	-37.37	-44.85	-45.59	-64.80	-62.25	-36.42	51.62
03160113	-0.82	-2.82	11.52	13.99	5.60	7.73	2.48	-2.71	0.04	6.31	9.90	10.49	-5.60
03160201	15.76	8.72	21.51	21.68	14.17	17.26	17.68	12.08	8.29	12.30	17.74	32.29	-16.60
03160202	0.11	0.18	0.43	0.95	0.63	0.78	-0.07	-0.50	0.16	0.22	0.42	0.84	-0.35
03160203	0.93	-3.73	1.42	2.68	0.92	1.27	-7.64	-9.91	-13.02	-15.13	-24.93	-12.09	6.48
03160204	-40.44	-22.99	26.89	33.68	0.97	-2.96	-14.48	-16.30	-0.46	-3.75	-5.94	17.26	3.85
03160205	0.22	-2.55	0.30	3.53	0.77	1.06	2.04	0.82	2.57	3.74	3.69	0.45	-1.37
Subtotal	*-50.95*	*-135.00*	*26.67*	*184.28*	*-49.66*	*-7.42*	*26.24*	*30.56*	*21.41*	*6.09*	*6.66*	*158.85*	*-16.30*
Pascagoula													
03170002	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
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	21.70	18.55	16.58	18.05	13.39	16.24	22.62	15.54	18.29	15.99	14.36	16.61	-17.30
03170009	-0.16	-0.84	0.33	0.93	0.52	0.76	1.45	1.02	1.11	1.21	1.60	1.26	-0.77
Subtotal	*21.55*	*17.72*	*16.92*	*18.98*	*13.92*	*17.01*	*24.08*	*16.56*	*19.41*	*17.20*	*15.96*	*17.88*	*-18.07*
Middle Tennessee-Hiwassee													
06020001	0.02	-0.01	0.00	0.03	0.01	0.03	0.05	-0.01	0.00	-0.01	-0.02	-0.01	0.00
Subtotal	*0.02*	*-0.01*	*0.00*	*0.03*	*0.01*	*0.03*	*0.05*	*-0.01*	*0.00*	*-0.01*	*-0.02*	*-0.01*	*0.00*
Middle Tennessee-Elk													
06030001	-24.58	-58.25	-23.68	-39.59	-72.85	-36.56	-26.10	-27.08	-30.55	-28.20	-15.56	-3.56	32.25
06030002	1.98	-16.35	26.72	59.50	2.76	-37.83	-21.55	-22.06	4.88	6.02	16.09	58.62	-5.56
06030003	0.00	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	1.10	0.53	0.54	0.67	-0.54	-1.94	-1.08	-0.20	0.01	-0.71	-0.41	-0.80	0.25
06030005	-18.29	-17.39	13.37	8.43	0.99	9.27	4.66	2.40	7.97	7.73	12.20	24.88	-4.96
06030006	-1.01	-3.37	-0.65	-0.18	-2.91	-2.99	-3.41	-2.56	-0.31	-1.13	-1.96	1.59	1.58
Subtotal	*-40.81*	*-94.83*	*16.30*	*28.82*	*-72.55*	*-70.04*	*-47.49*	*-49.51*	*-18.00*	*-16.29*	*10.37*	*80.73*	*23.56*
Total	**-143.57**	**-357.80**	**-40.04**	**314.53**	**-207.40**	**-141.40**	**-48.89**	**-90.59**	**-4.96**	**-36.82**	**48.48**	**338.31**	**32.27**

Figure 76. Map of change in public-supply demand by subbasin in Alabama from 2010 to 2015, in MGD.

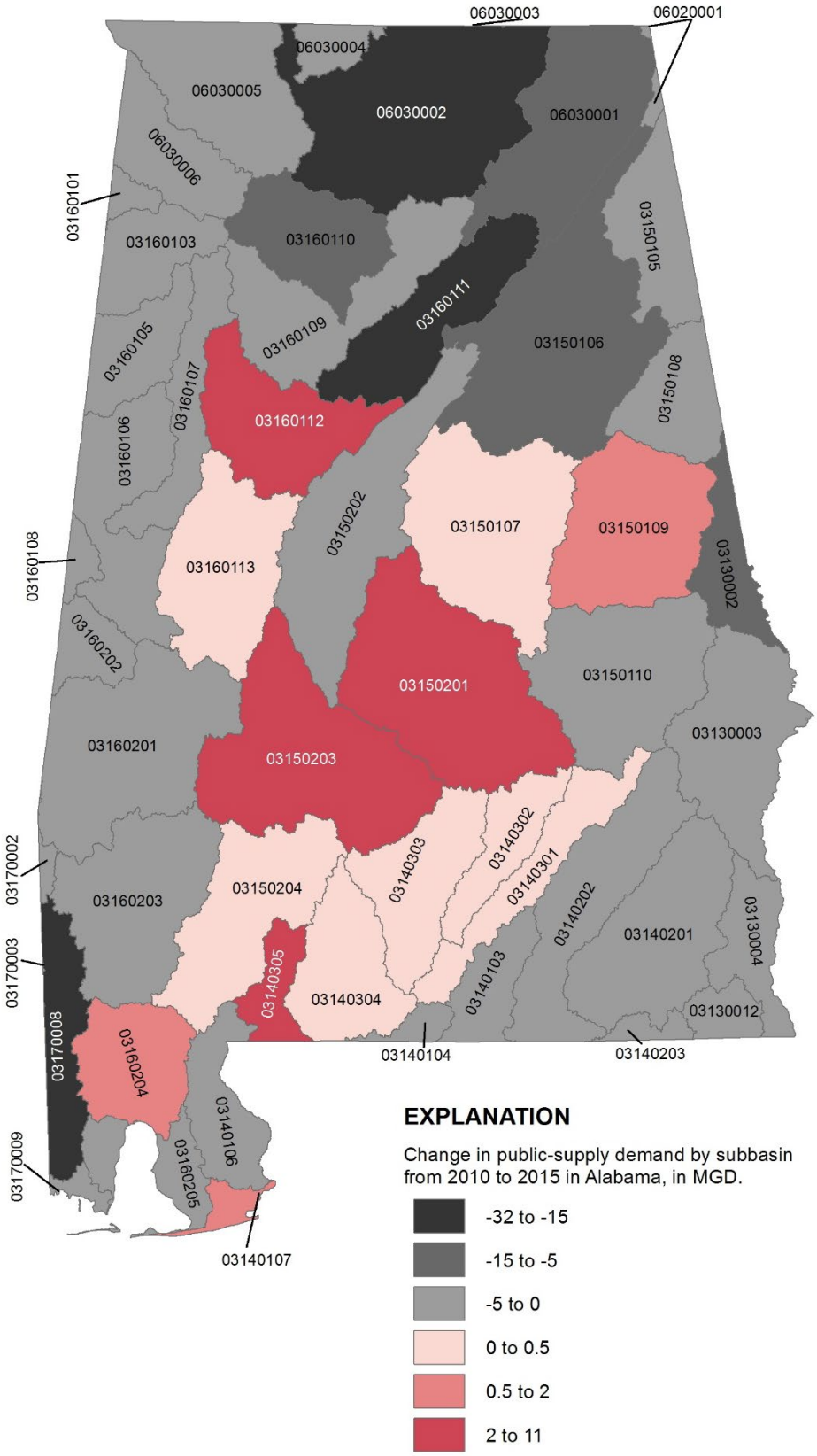


Table 88. Change in public-supply net demand by subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	-3.31	-2.49	-1.93	-5.62	-3.88	-5.35	-5.65	-6.59	-7.07	-4.02	-6.44	-9.19	-5.12
03130003	2.73	3.06	2.49	-1.60	3.47	-0.18	-1.25	-1.84	-1.65	-1.09	-4.16	-6.29	-0.52
03130004	2.54	3.67	1.55	-0.95	-0.30	-0.61	-0.49	0.04	-0.27	-0.32	-4.53	-3.57	-0.27
03130012	0.77	1.55	0.11	-1.47	-0.57	-0.49	-0.76	-0.10	-0.42	-0.55	-2.74	-2.00	-0.56
Subtotal	*2.74*	*5.79*	*2.21*	*-9.65*	*-1.28*	*-6.62*	*-8.14*	*-8.51*	*-9.40*	*-5.99*	*-17.87*	*-21.06*	*-6.47*
Chocawhatchee-Escambia													
03140103	1.29	2.13	0.62	-0.42	0.07	0.40	0.03	-0.35	-0.17	-0.76	-1.92	-0.92	0.00
03140104	0.00	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	0.79	1.57	-0.92	-3.85	-1.01	-0.59	-0.17	0.47	-0.21	-0.46	-1.19	-2.50	-0.67
03140107	0.46	1.61	1.17	-0.14	0.45	1.39	1.18	2.56	1.96	1.74	2.04	1.55	1.33
03140201	7.07	11.02	2.99	-5.53	-1.78	-1.95	-0.85	1.27	-0.97	-0.71	-10.81	-9.80	-0.84
03140202	1.86	1.21	1.35	-0.18	-0.20	-0.33	-0.68	0.20	-0.76	-0.33	-2.07	-1.86	-0.15
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	1.98	1.76	1.46	-0.36	0.26	0.23	0.30	0.54	0.40	0.13	-0.65	-0.33	0.48
03140302	0.38	0.47	0.37	0.09	0.04	0.01	-0.01	0.03	0.00	0.06	-0.14	-0.13	0.10
03140303	1.29	1.74	1.08	0.01	0.21	0.29	0.06	0.05	-0.11	-0.23	-0.39	-1.12	0.24
03140304	0.87	1.59	1.07	-1.05	1.24	-0.40	-0.31	1.91	-0.36	-0.15	0.16	-0.85	0.31
03140305	3.68	4.37	3.10	1.57	2.39	1.34	1.31	1.40	1.15	1.21	1.14	1.36	2.00
Subtotal	*19.68*	*27.46*	*12.29*	*-9.86*	*1.67*	*0.40*	*0.86*	*8.07*	*0.93*	*0.49*	*-13.82*	*-14.60*	*2.80*
Alabama													
03150105	-0.01	0.96	-0.06	-2.13	-0.07	-0.21	-0.49	-0.57	0.37	0.53	-1.20	-1.05	-0.33
03150106	0.26	15.89	6.12	-29.01	8.18	0.01	-3.44	-5.77	-8.85	-7.19	-22.68	-35.11	-6.79
03150107	-0.17	6.14	4.46	-2.33	2.89	2.55	-0.70	0.11	-0.37	-0.89	-2.62	-6.28	0.24
03150108	-0.13	0.08	0.06	-0.33	-0.21	-0.05	-0.03	-0.16	-0.17	-0.15	-0.45	-0.55	-0.17
03150109	2.01	2.69	4.23	-0.76	3.25	0.24	-0.19	0.78	-2.78	2.71	3.39	-2.02	1.15
03150110	-1.67	-1.65	-4.08	-7.85	-2.65	2.28	0.55	-2.39	-4.11	-5.09	-7.87	-12.19	-3.88
03150201	15.49	11.58	9.34	-4.56	2.32	1.05	1.64	2.72	2.08	2.09	-1.35	-16.23	2.18
03150202	-0.94	13.39	3.02	-20.70	3.30	6.24	-5.41	-1.94	-3.46	5.14	1.03	-5.58	-0.48
03150203	2.40	2.48	2.01	1.66	1.95	2.16	2.34	2.19	2.10	1.77	1.52	1.46	2.00
03150204	0.54	0.77	0.53	0.08	0.42	0.09	0.34	0.18	0.42	0.37	0.22	-0.55	0.28
Subtotal	*17.77*	*52.32*	*25.64*	*-65.93*	*19.38*	*14.37*	*-5.39*	*-4.85*	*-14.77*	*-0.70*	*-30.04*	*-78.09*	*-5.80*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 88. Change in public-supply net demand by subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.27	0.46	-0.39	-0.53	0.58	-0.05	-0.77	-0.54	0.06	-0.07	-0.59	-1.23	-0.23
03160105	-3.77	-0.75	-0.99	-2.49	-3.36	-1.51	-0.28	-0.56	-0.50	-0.37	-0.20	-0.40	-1.26
03160106	0.47	0.48	0.42	-0.60	-0.24	-0.22	-0.45	-0.17	-0.12	-0.27	-0.81	-0.94	-0.20
03160107	0.30	0.30	-1.13	-1.30	0.48	0.30	0.00	-0.01	0.10	0.00	-0.50	-1.05	-0.21
03160108	0.00	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	-32.62	-3.05	-2.42	-15.49	-1.50	0.98	-2.00	3.81	10.73	5.76	-2.73	9.04	-2.47
03160110	17.09	-0.53	-8.48	2.67	10.07	4.05	-6.43	-18.29	-24.58	-20.38	-12.97	-29.39	-7.22
03160111	3.57	32.33	5.29	-90.64	-10.93	-7.98	-28.97	-39.39	-39.23	-44.82	-56.77	-102.47	-31.71
03160112	-3.01	29.73	18.64	-21.19	36.72	27.02	11.20	14.55	10.69	14.50	7.66	-16.96	10.81
03160113	-1.09	3.04	0.43	-0.29	1.84	0.36	1.81	1.02	1.09	-0.59	-2.44	-3.13	0.17
03160201	0.38	0.55	-0.72	-2.95	0.65	0.01	-5.96	0.57	-0.13	-0.16	0.53	-8.05	-1.27
03160202	0.19	0.10	-0.26	-0.77	-0.58	-0.64	0.18	0.72	0.02	-0.40	-0.82	-0.84	-0.26
03160203	-5.00	-3.44	-1.95	-2.64	-2.15	-2.05	-3.06	-2.39	-2.65	-8.87	-6.17	-5.81	-3.85
03160204	20.03	24.77	0.76	-22.30	-9.38	-5.20	5.62	11.31	3.47	-1.11	4.32	-13.29	1.58
03160205	-0.10	0.11	-0.80	-1.33	-0.45	-0.12	-0.22	-0.34	-0.51	-0.73	-0.98	-1.39	-0.57
Subtotal	*-3.29*	*84.11*	*8.38*	*-159.84*	*21.76*	*14.97*	*-29.33*	*-29.71*	*-41.58*	*-57.53*	*-72.47*	*-175.92*	*-36.70*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	-21.83	-18.60	-16.70	-18.23	-13.72	-16.41	-22.65	-15.94	-18.67	-16.47	-14.45	-16.71	-17.51
03170009	0.00	-0.03	-0.28	-0.91	-0.42	-0.64	-0.70	-0.37	-0.45	-0.75	-1.07	-1.06	-0.56
Subtotal	*-21.83*	*-18.63*	*-16.98*	*-19.13*	*-14.14*	*-17.05*	*-23.35*	*-16.31*	*-19.12*	*-17.22*	*-15.53*	*-17.77*	*-18.07*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	-8.51	-3.45	-8.06	-11.75	0.09	0.06	-6.51	-7.20	-5.09	-5.90	-7.83	-17.83	-6.81
06030002	-14.20	12.52	-30.87	-53.20	-12.88	-5.65	-23.42	-27.56	-18.11	-12.70	-21.63	-60.86	-22.32
06030003	0.00	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	-0.95	-0.34	-0.79	-0.90	-0.41	0.24	-0.44	-0.94	0.06	0.66	0.49	0.91	-0.20
06030005	12.49	14.74	-13.60	-2.36	1.26	-9.14	-3.13	-5.06	-2.65	-2.67	-8.73	-21.77	-3.38
06030006	-1.29	1.65	-0.44	-1.25	0.51	1.11	0.09	-0.38	-0.87	-0.42	-1.22	-3.69	-0.52
Subtotal	*-12.45*	*25.11*	*-53.77*	*-69.46*	*-11.43*	*-13.39*	*-33.40*	*-41.14*	*-26.66*	*-21.03*	*-38.91*	*-103.25*	*-33.23*
Total	**2.61**	**176.16**	**-22.23**	**-333.89**	**15.97**	**-7.32**	**-98.74**	**-92.45**	**-110.59**	**-101.98**	**-188.63**	**-410.70**	**-97.48**

Figure 77. Map of change in agriculture demand by subbasin in Alabama from 2010 to 2015, in MGD.

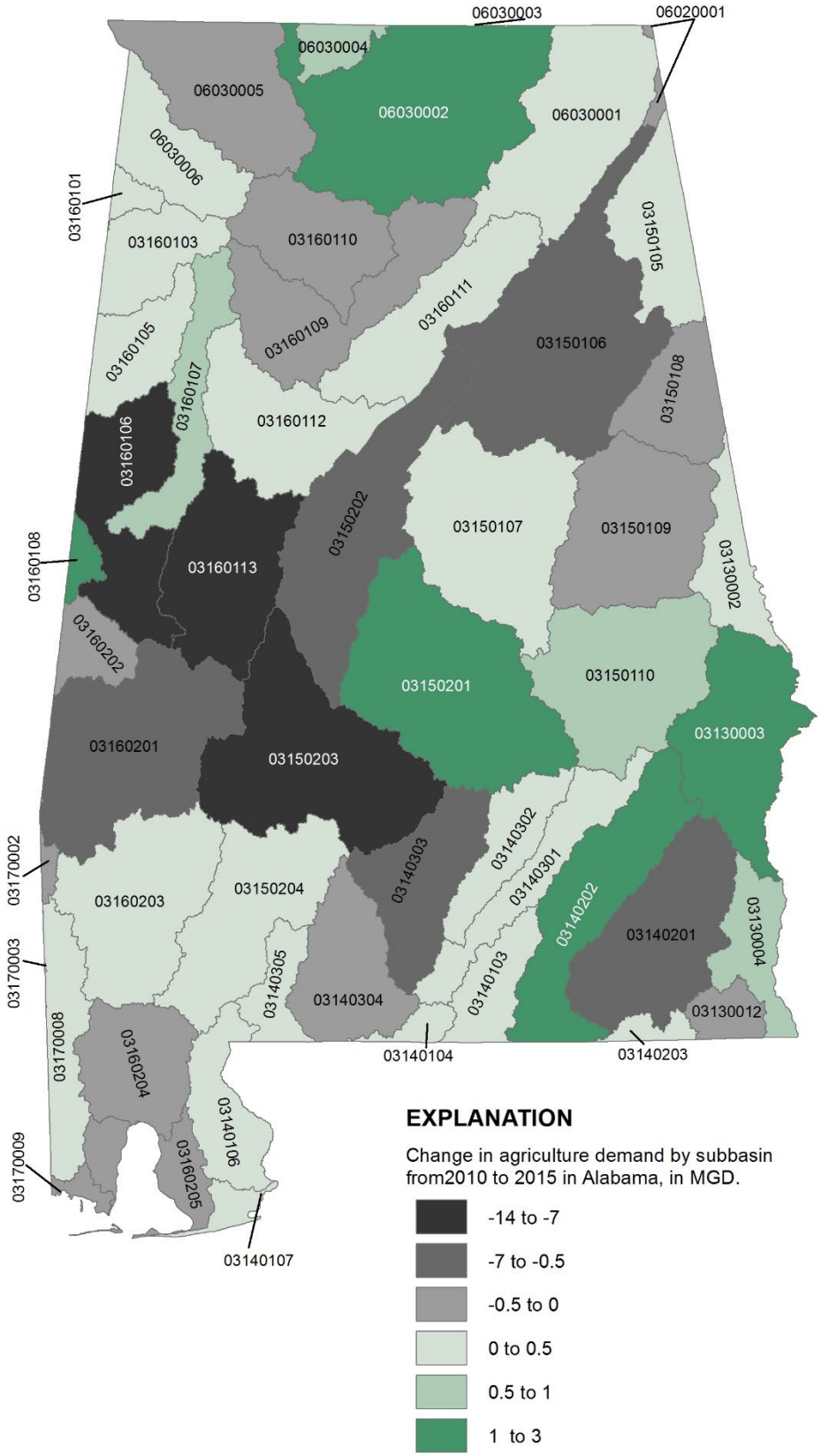


Table 89. Change in agriculture net demand by subbasin in Alabama from 2010 to 2015, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	0.03	0.12	0.14	0.09	0.19	0.16	0.08	0.33	0.28	0.31	0.17	0.13	0.17
03130003	-0.73	1.83	1.56	-1.04	1.43	1.74	-0.07	4.14	1.48	2.27	2.26	1.86	1.43
03130004	0.06	0.14	0.61	0.24	0.94	1.16	0.66	1.22	0.35	0.68	0.33	0.25	0.57
03130012	0.02	-0.11	-0.02	-0.34	-0.58	-1.17	-1.49	-0.92	-0.67	-0.23	-0.12	-0.03	-0.47
Subtotal	*-0.62*	*1.97*	*2.28*	*-1.05*	*1.98*	*1.90*	*-0.81*	*4.77*	*1.44*	*3.03*	*2.65*	*2.21*	*1.71*
Chocawhatchee-Escambia													
03140103	-0.11	0.14	0.13	0.05	0.33	0.41	0.26	0.62	0.31	0.34	0.22	0.16	0.24
03140104	-0.01	0.03	0.03	-0.01	0.02	0.03	0.00	0.07	0.03	0.04	0.04	0.03	0.03
03140106	-0.21	0.53	0.36	-0.25	0.31	0.22	-0.27	1.02	0.49	0.70	0.66	0.55	0.35
03140107	0.16	0.45	0.23	-0.07	0.63	0.76	0.37	0.63	0.33	0.51	0.39	0.55	0.42
03140201	-2.90	-2.83	-2.25	-3.31	-1.46	-0.93	-2.18	-1.38	-3.18	-2.21	-2.80	-2.53	-2.29
03140202	0.08	0.43	0.94	0.48	1.46	1.89	1.31	2.05	0.83	1.17	0.73	0.56	1.02
03140203	0.00	0.10	0.18	0.15	0.40	0.63	0.59	0.59	0.26	0.25	0.15	0.10	0.29
03140301	0.06	0.12	0.18	-0.06	0.27	0.27	-0.03	0.42	-0.03	0.21	0.11	0.17	0.15
03140302	0.12	0.13	0.23	0.30	0.48	0.65	0.61	0.52	0.22	0.23	0.18	0.16	0.32
03140303	-0.40	-0.41	-0.68	-1.29	-0.65	-0.60	-1.02	-1.00	-1.12	-0.81	-0.72	-0.34	-0.75
03140304	-0.06	-0.07	-0.05	-0.03	0.03	-0.08	-0.19	0.05	0.00	0.10	-0.05	-0.03	-0.03
03140305	0.03	0.02	0.03	-0.01	0.03	-0.02	-0.07	0.06	0.05	0.09	0.02	0.03	0.02
Subtotal	*-3.24*	*-1.37*	*-0.69*	*-4.06*	*1.86*	*3.22*	*-0.63*	*3.64*	*-1.81*	*0.62*	*-1.06*	*-0.59*	*-0.24*
Alabama													
03150105	-0.19	0.69	0.51	-0.41	0.29	0.06	-0.66	1.11	0.44	0.82	0.83	0.73	0.36
03150106	-2.02	-0.44	-2.72	-10.29	-8.55	-11.29	-15.38	-9.12	-11.75	-7.88	-2.65	-0.39	-6.83
03150107	-0.03	0.36	0.31	-0.45	0.60	0.81	0.11	1.13	-0.10	0.40	0.28	0.44	0.34
03150108	-0.07	-0.08	-0.09	-0.19	-0.34	-0.60	-0.68	-0.47	-0.26	-0.15	-0.07	-0.06	-0.25
03150109	-0.59	-0.65	-0.55	-0.51	-0.28	-0.24	-0.42	-0.29	-0.71	-0.50	-0.64	-0.58	-0.49
03150110	-0.21	1.03	0.76	-1.16	0.95	1.00	-0.52	2.39	0.75	1.56	1.02	1.14	0.76
03150201	1.71	2.68	2.68	1.29	3.52	4.13	2.80	4.38	2.28	3.08	2.73	2.90	2.88
03150202	-0.16	-0.27	-0.87	-2.49	-0.67	-1.16	-2.69	-0.98	-1.61	-0.35	-1.03	-0.03	-1.00
03150203	-10.26	-9.57	-9.50	-10.08	-9.43	-9.35	-9.88	-8.82	-9.57	-9.32	-9.33	-9.50	-9.54
03150204	0.07	0.33	0.31	0.17	0.41	0.44	0.30	0.74	0.56	0.58	0.42	0.34	0.39
Subtotal	*-11.74*	*-5.92*	*-9.16*	*-24.12*	*-13.50*	*-16.18*	*-27.02*	*-9.93*	*-19.98*	*-11.75*	*-8.44*	*-5.02*	*-13.38*
Mobile-Tombigbee													
03160101	0.00	0.00	0.01	0.00	0.03	0.07	0.07	0.05	0.00	0.00	0.00	0.00	0.02

Table 89. Change in agriculture net demand by subbasin in Alabama from 2010 to 2015, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	0.04	0.02	0.03	0.02	0.07	0.07	0.03	0.11	0.07	0.10	0.01	0.02	0.05
03160105	0.09	0.05	0.11	0.10	0.24	0.35	0.31	0.31	0.13	0.15	0.05	0.06	0.17
03160106	-9.11	-9.19	-8.86	-8.72	-7.73	-6.51	-6.48	-7.26	-8.84	-8.96	-9.22	-9.18	-8.33
03160107	0.67	0.82	0.85	0.71	1.07	1.31	1.20	1.36	0.91	0.93	0.83	0.81	0.96
03160108	1.89	1.89	1.90	1.91	1.94	1.99	1.99	1.96	1.91	1.90	1.89	1.89	1.92
03160109	-0.04	-0.06	-0.04	-0.02	0.00	-0.25	-0.44	-0.23	-0.35	-0.08	-0.01	0.03	-0.12
03160110	-0.06	-0.12	-0.05	-0.14	-0.03	-0.13	-0.33	-0.07	-0.26	-0.07	-0.13	-0.06	-0.12
03160111	0.42	0.15	0.22	0.19	0.35	-0.33	-0.91	0.21	0.01	0.71	0.11	0.34	0.13
03160112	0.22	0.77	0.28	-0.89	0.37	0.41	-0.49	0.38	-0.35	0.26	0.46	0.89	0.21
03160113	-14.29	-13.96	-14.04	-14.14	-13.82	-13.84	-14.11	-13.56	-14.05	-13.86	-13.87	-13.88	-13.95
03160201	-0.93	-0.99	-0.99	-1.01	-0.97	-1.11	-1.25	-1.01	-1.11	-0.91	-1.02	-0.95	-1.02
03160202	-0.27	-0.28	-0.27	-0.20	-0.17	-0.20	-0.24	-0.19	-0.24	-0.20	-0.26	-0.25	-0.23
03160203	0.00	-0.01	0.02	0.17	0.26	0.28	0.27	0.31	0.27	0.23	0.04	0.02	0.16
03160204	-0.22	0.13	-0.20	-1.11	-0.41	-0.68	-1.38	-0.42	-0.70	-0.20	-0.07	0.22	-0.41
03160205	0.19	0.61	-0.10	-1.85	-0.33	-0.67	-2.02	-0.80	-1.34	-0.25	0.02	0.82	-0.46
Subtotal	*-21.38*	*-20.18*	*-21.12*	*-24.99*	*-19.13*	*-19.24*	*-23.78*	*-18.84*	*-23.94*	*-20.25*	*-21.18*	*-19.24*	*-21.01*
Pascagoula													
03170002	-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
03170003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.13	0.05	0.11	0.18	0.33	0.18	0.03	0.40	0.37	0.48	0.09	0.10	0.21
03170009	0.01	-0.01	-0.02	-0.13	-0.17	-0.29	-0.38	-0.23	-0.25	-0.10	-0.05	0.00	-0.13
Subtotal	*0.13*	*0.03*	*0.09*	*0.04*	*0.15*	*-0.12*	*-0.35*	*0.16*	*0.12*	*0.37*	*0.04*	*0.09*	*0.07*
Middle Tennessee-Hiwassee													
06020001	-0.02	0.02	0.01	-0.02	-0.01	-0.03	-0.05	0.02	0.01	0.02	0.03	0.02	0.00
Subtotal	*-0.02*	*0.02*	*0.01*	*-0.02*	*-0.01*	*-0.03*	*-0.05*	*0.02*	*0.01*	*0.02*	*0.03*	*0.02*	*0.00*
Middle Tennessee-Elk													
06030001	0.20	0.29	0.30	0.11	0.30	-0.49	-1.11	0.45	0.54	1.05	0.43	0.45	0.22
06030002	0.72	0.09	1.48	0.38	3.61	4.83	3.01	4.42	0.76	2.29	0.05	0.51	1.91
06030003	0.00	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	0.18	0.15	0.59	0.57	1.29	2.03	1.85	1.48	0.26	0.39	0.25	0.23	0.79
06030005	0.35	0.13	0.14	-0.65	0.24	0.08	-0.83	-0.51	-1.28	-0.39	-0.15	0.38	-0.19
06030006	0.00	-0.01	0.11	0.02	0.39	0.72	0.64	0.58	0.03	0.07	-0.03	0.00	0.22
Subtotal	*1.45*	*0.65*	*2.61*	*0.44*	*5.83*	*7.18*	*3.56*	*6.42*	*0.31*	*3.41*	*0.56*	*1.58*	*2.95*
Total	**-35.41**	**-24.80**	**-25.98**	**-53.76**	**-22.82**	**-23.26**	**-49.09**	**-13.76**	**-43.86**	**-24.54**	**-27.40**	**-20.94**	**-29.91**

Figure 78. Map of change in industrial, thermoelectric, and mining demand by subbasin from 2010 to 2015 in Alabama, in MGD.

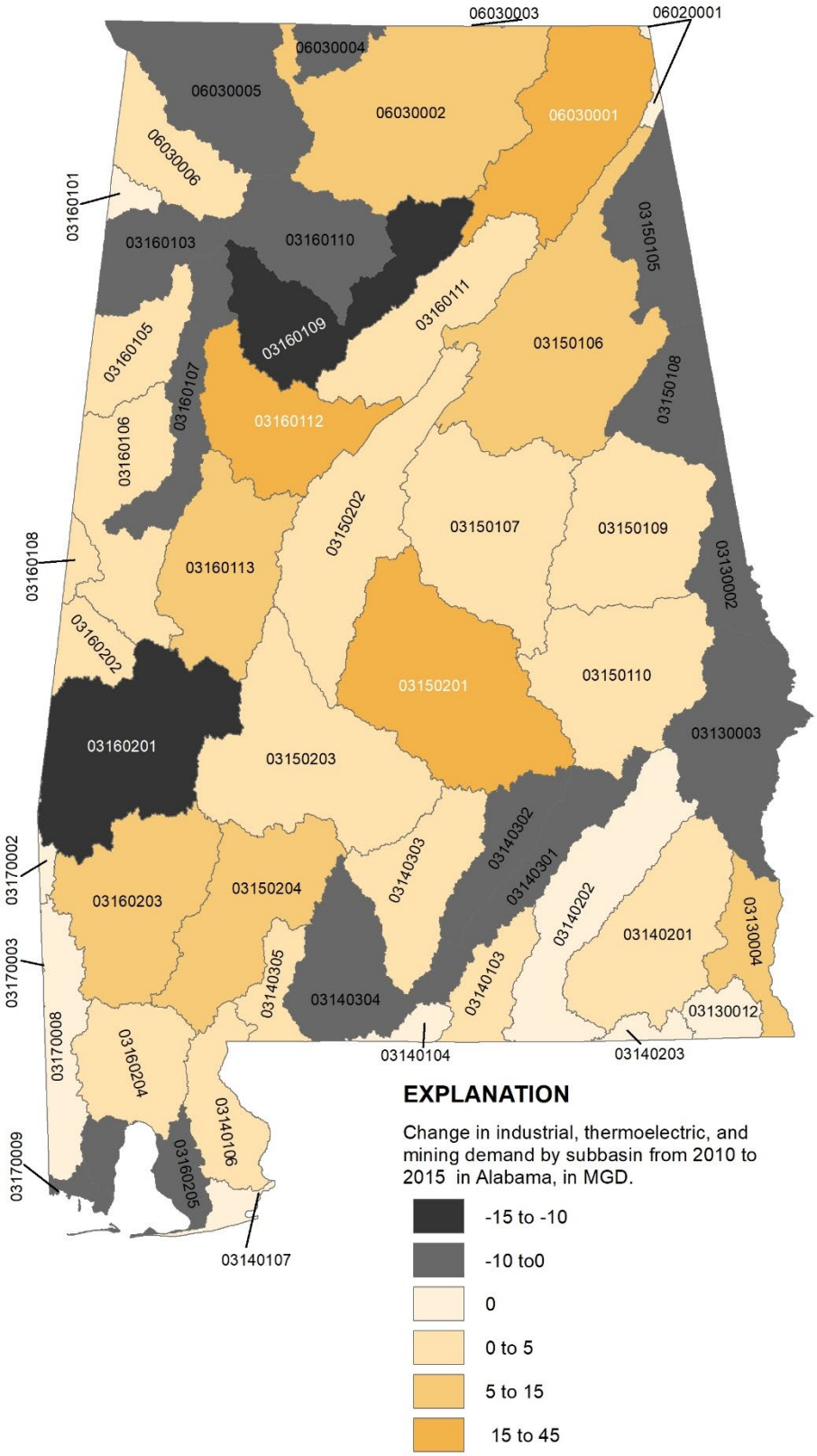


Table 90. Change in industrial, thermoelectric, and mining demand by subbasin from 2010 to 2015 in Alabama, in MGD.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Apalachicola													
03130002	1.89	1.95	2.11	1.75	2.56	1.87	2.41	2.74	2.24	2.29	2.10	1.66	2.13
03130003	-5.53	-16.12	-1.64	-6.78	8.08	8.52	-0.85	7.67	4.56	0.95	3.89	-5.62	-0.19
03130004	32.91	35.54	16.70	1.91	19.54	21.22	10.66	3.99	3.76	13.85	8.21	-0.38	13.94
03130012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*29.27*	*21.37*	*17.17*	*-3.12*	*30.19*	*31.61*	*12.22*	*14.39*	*10.55*	*17.09*	*14.19*	*-4.35*	*15.88*
Escambia													
03140103	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
03140104	0.00	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	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
03140107	0.00	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	0.45	0.05	0.24	0.53	0.97	0.88	1.13	0.73	0.46	1.00	1.84	1.43	0.81
03140202	0.11	0.12	-0.08	-0.07	0.10	0.12	-0.02	0.16	-0.10	0.20	-0.36	-0.16	0.00
03140203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03140301	-0.55	-0.76	0.04	-0.62	-0.74	-1.11	-1.01	-1.01	-0.26	-0.24	0.38	-0.62	-0.55
03140302	-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
03140303	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
03140304	-19.95	-7.74	-19.65	-7.51	4.11	1.73	0.21	4.29	-2.49	-2.69	9.70	-0.79	-3.37
03140305	0.06	0.10	0.08	0.07	0.09	0.07	0.06	0.08	0.10	0.10	0.05	0.10	0.08
Subtotal	*-19.41*	*-7.81*	*-18.85*	*-7.01*	*5.11*	*2.34*	*1.04*	*4.94*	*-1.60*	*-1.11*	*12.23*	*0.42*	*-2.45*
Alabama													
03150105	-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
03150106	10.99	13.93	22.21	8.83	13.99	16.67	19.81	21.52	2.92	0.41	7.22	15.33	12.53
03150107	8.90	7.65	10.75	-18.82	3.23	0.93	2.77	5.58	5.40	2.66	-1.19	-2.80	0.66
03150108	-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
03150109	0.35	0.29	0.07	0.25	0.05	0.23	0.12	0.06	0.07	0.14	-0.08	0.06	0.13
03150110	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
03150201	8.31	18.90	20.62	51.54	29.25	27.88	49.12	39.75	42.00	28.59	15.38	15.12	28.91
03150202	0.01	0.64	1.41	-0.11	1.87	-0.05	0.82	1.89	-0.04	0.06	0.83	1.55	0.74
03150203	4.90	2.28	0.72	-3.73	0.67	1.09	-0.56	-0.60	1.11	0.19	-2.76	3.22	0.54
03150204	4.92	7.61	12.70	3.87	4.07	2.63	6.99	6.94	10.39	9.51	6.68	7.17	6.99
Subtotal	*38.93*	*51.86*	*69.05*	*42.38*	*53.69*	*49.93*	*79.63*	*75.68*	*62.41*	*42.11*	*26.63*	*40.20*	*51.06*
Mobile-Tombigbee													
03160101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 90. Change in industrial, thermoelectric, and mining demand by subbasin from 2010 to 2015 in Alabama, in MGD – Continued.

Hydrologic subregion and subbasin	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
03160103	-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
03160105	-0.61	-0.47	0.20	0.00	0.36	1.51	1.69	8.37	5.45	-0.35	0.26	-0.37	1.34
03160106	0.62	0.83	0.86	0.87	0.75	0.92	0.77	0.83	0.77	0.82	0.67	0.45	0.76
03160107	-0.35	-0.35	-0.35	-0.31	-0.29	-0.29	-0.35	-0.35	-0.34	-0.35	-0.35	-0.35	-0.34
03160108	2.55	10.80	8.82	2.69	1.12	1.67	0.02	0.02	0.02	0.02	-2.32	-3.32	1.84
03160109	-24.13	3.90	-11.08	-19.69	-7.84	-19.15	-22.43	-46.87	-21.31	0.57	14.62	-16.20	-13.29
03160110	-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
03160111	14.88	9.34	2.08	4.04	-2.61	5.26	0.23	4.83	6.03	-2.39	0.19	6.36	4.02
03160112	57.35	34.52	29.51	41.07	53.15	23.13	26.66	29.91	35.26	50.04	54.13	52.50	40.60
03160113	16.20	13.73	2.08	0.45	6.37	5.74	9.82	15.25	12.91	8.15	6.42	6.52	8.17
03160201	-15.20	-8.28	-19.81	-17.71	-13.85	-16.16	-10.47	-11.64	-7.05	-11.23	-17.25	-23.29	-14.31
03160202	-0.03	0.00	0.11	0.02	0.11	0.05	0.13	-0.03	0.06	0.38	0.66	0.26	0.14
03160203	4.07	7.17	0.52	-0.21	0.97	0.50	10.43	11.99	15.40	23.77	31.06	17.88	10.18
03160204	20.63	-1.91	-27.44	-10.27	8.82	8.84	10.24	5.40	-2.31	5.06	1.69	-4.18	2.68
03160205	-0.31	1.84	0.61	-0.35	0.01	-0.28	0.20	0.32	-0.72	-2.76	-2.73	0.12	-0.34
Subtotal	*75.62*	*71.07*	*-13.93*	*0.55*	*47.03*	*11.69*	*26.88*	*17.98*	*44.12*	*71.69*	*86.99*	*36.32*	*41.41*
Pascagoula													
03170002	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03170009	0.15	0.88	-0.03	0.11	0.07	0.16	-0.37	-0.42	-0.41	-0.35	-0.47	-0.20	-0.07
Subtotal	*0.15*	*0.88*	*-0.03*	*0.11*	*0.07*	*0.16*	*-0.37*	*-0.42*	*-0.41*	*-0.35*	*-0.47*	*-0.20*	*-0.07*
Middle Tennessee-Hiwassee													
06020001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Middle Tennessee-Elk													
06030001	32.89	61.41	31.44	51.23	72.46	37.00	33.72	33.84	35.10	33.05	22.96	20.94	38.84
06030002	11.50	3.74	2.67	-6.68	6.52	38.65	41.97	45.19	12.47	4.39	5.48	1.73	14.85
06030003	0.00	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	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
06030005	5.45	2.52	0.09	-5.41	-2.49	-0.21	-0.70	3.17	-4.04	-4.67	-3.32	-3.49	-1.39
06030006	2.31	1.73	0.98	1.41	2.01	1.15	2.68	2.37	1.15	1.48	3.20	2.11	1.88
Subtotal	*51.81*	*69.07*	*34.85*	*40.21*	*78.16*	*76.26*	*77.33*	*84.23*	*44.34*	*33.91*	*27.99*	*20.95*	*53.84*
Total	**176.37**	**206.44**	**88.25**	**73.12**	**214.25**	**171.99**	**196.72**	**196.81**	**159.41**	**163.34**	**167.56**	**93.34**	**159.67**

Surface Water Availability Assessment: 2010 versus 2015

An important aspect of an assessment of surface-water availability includes information regarding the characteristics of streamflows in subbasins. These streamflow characteristics are important in evaluating Alabama's existing and future uses and availability of surface water in the state. This information is also necessary for the design and operation of reservoirs and for management of water supplies for drinking water, commercial, industrial, irrigation, and thermoelectric power uses as well as instream uses such as navigation, recreation, aquatic habitat, and water quality.

Statistical analysis and summaries of streamflow characteristics were developed for the 53 subbasins in the state and include mean monthly and mean annual streamflow as well as the magnitude and frequency of monthly and annual low flows. This information was then used to develop surface-water availability characteristics for each of the subbasins as described in a report published by OWR in December 2017 entitled "*2017 Alabama Surface Water Assessment Report*" (hereafter referred to as the 2017 Report) (Atkins and others, 2017). The comparisons of flows and the 2010 and 2015 water demand estimates resulted in the development of relative net demand (RND) ratios of monthly flow characteristics and net water consumption estimates for subbasins in Alabama.

Comparison of Precipitation 2010 to 2015

A key factor in an analysis involving differences in hydrology and water availability between 2010 and 2015 should begin with a review of the rainfall that occurred in each year. 2010 and 2015 were very different in terms of average statewide precipitation. While the long-term average precipitation in Alabama is approximately 55.66 inches[2], the 2010 average statewide precipitation was estimated at 45.59 inches or approximately 10 inches below normal. In comparison, the 2015 average statewide precipitation was estimated at 59.22 inches or more than three inches above normal. This information is based on county and subbasin estimates of precipitation for 2010, 2015, normal, and a comparison of 2010 to 2015 provided by the University of Alabama Huntsville (UAH) (UAH, written communication, 2018).

The geographic distribution of the 2010 and 2015 precipitation values are listed by county and hydrologic subbasin in tables 91 and 92. The counties with the highest difference in precipitation from 2010 to 2015 are Lee (27.56 inches), Houston (27.45 inches), and Coffee (27.26 inches) Counties. The counties with the lowest difference in precipitation from 2010 to 2015 are Pickens (-5.23 inches), Fayette (0.42 inches) and Hale (1.91 inches) Counties (figure 79). The subbasins with the highest difference in precipitation from 2010 to 2015 are the Chipola (03130012; 29.21 inches), the Mississippi Coastal (03170009; 28.77 inches), and the Upper Choctawhatchee (03140203; 26.20 inches). The subbasins with the lowest difference in precipitation from 2010 to 2015 are the Middle Tombigbee-Lubbub (03160106; -1.59 inches), the Sipsey (03160107; 0.41 inches), and the Noxubee (03160108; 0.88 inches) subbasins (figure 80).

[2] Due to estimating methodologies and rounding techniques, there are slight differences in statewide precipitation totals between county and subbasin delineations.

Figure 79. Map of change in precipitation by county in Alabama from 2010 to 2015, in inches.

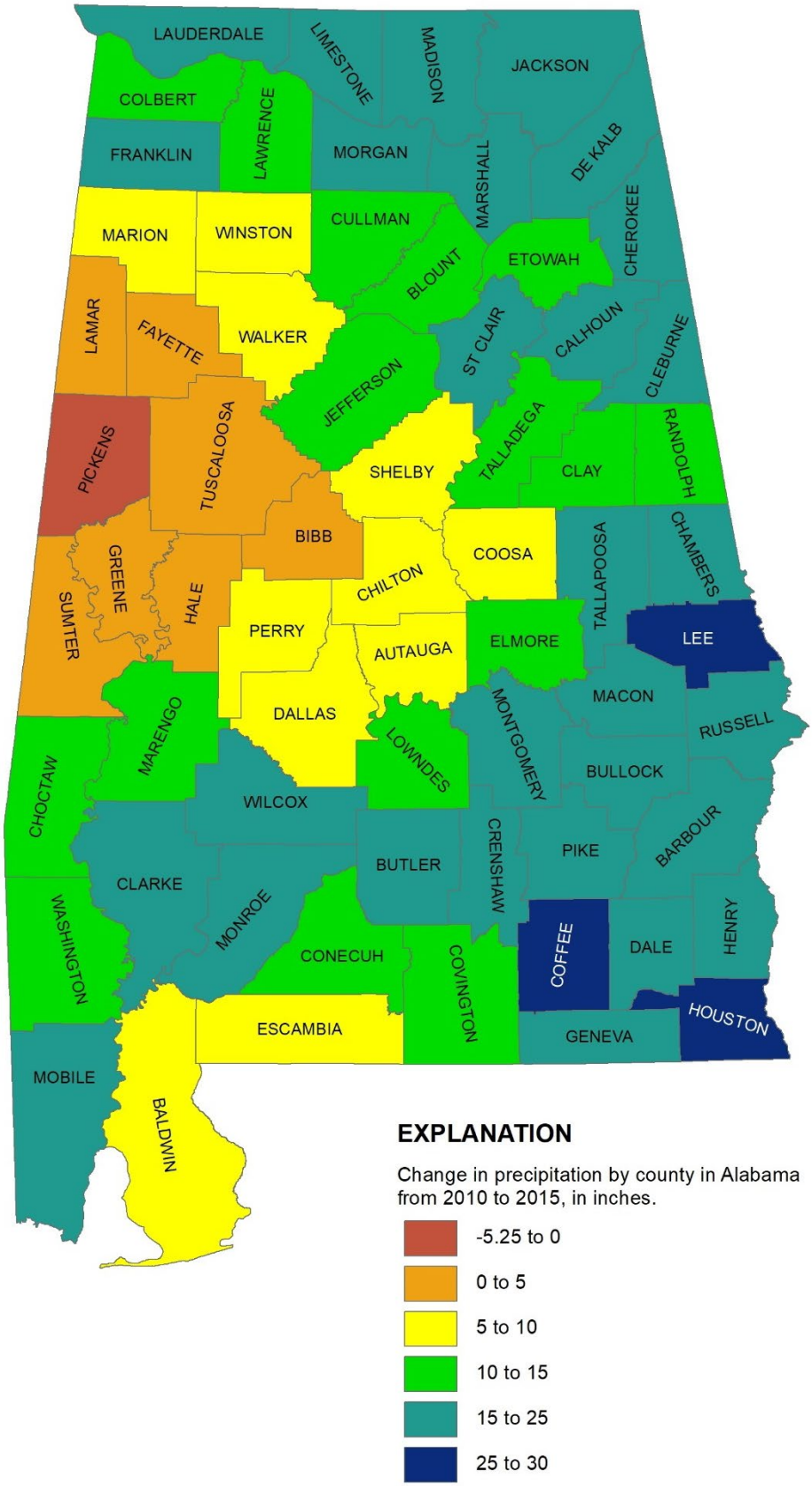


Figure 80. Map of change in precipitation by subbasin in Alabama from 2010 to 2015, in inches.

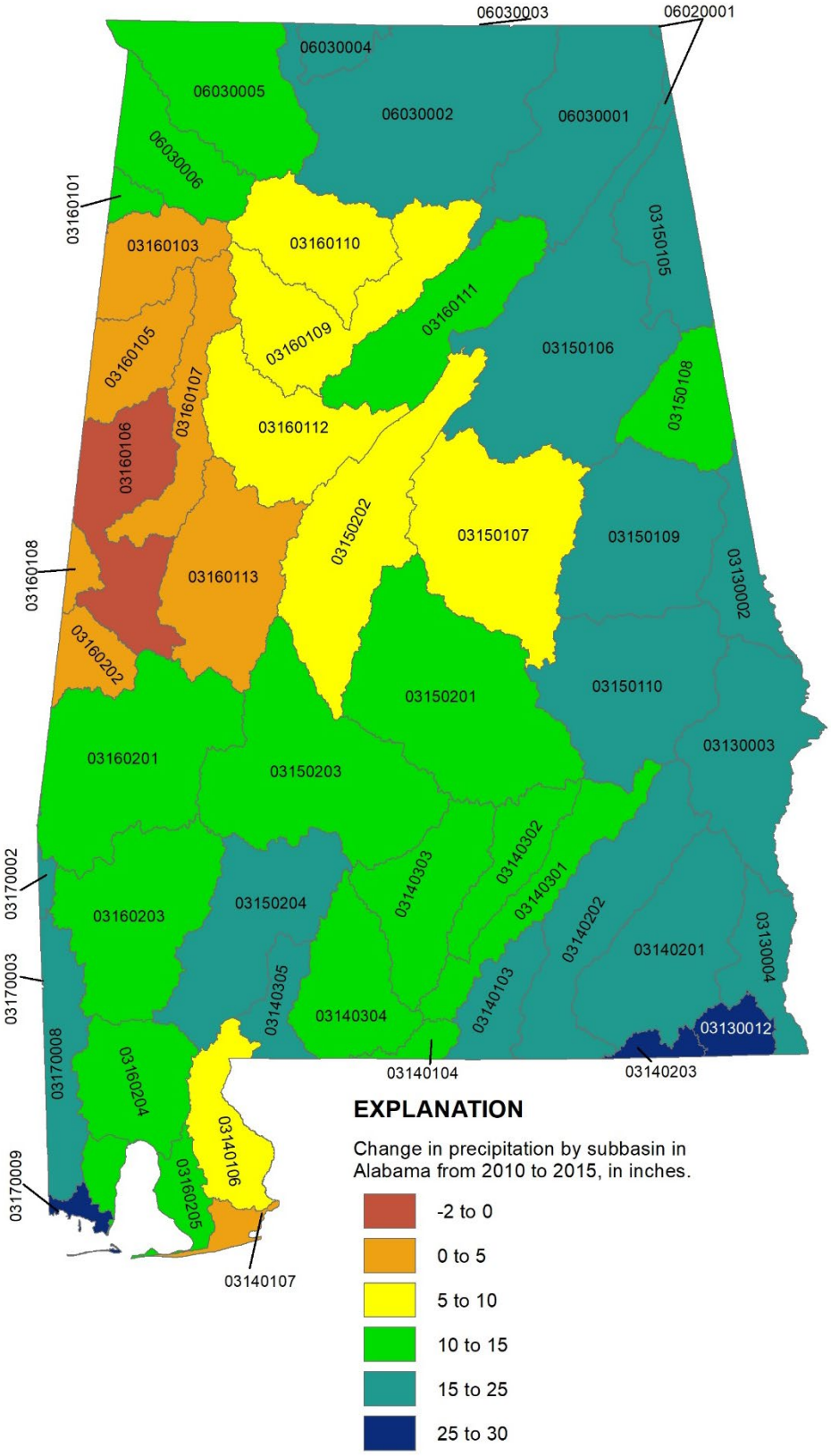


Table 91. Normal, 2010, 2015, and 2010 to 2015 difference in precipitation in Alabama by county, in inches.

County	Normal Precipitation (1980-2010)	2010 Observed Precipitation	2015 Observed Precipitation	Difference from 2010 to 2015
AUTAUGA	54.01	46.81	52.34	5.54
BALDWIN	65.35	53.78	61.45	7.67
BARBOUR	52.12	40.02	62.96	22.94
BIBB	55.25	51.12	55.23	4.11
BLOUNT	55.69	48.08	61.61	13.54
BULLOCK	52.77	42.25	59.64	17.39
BUTLER	56.29	47.05	62.08	15.03
CALHOUN	52.97	46.29	62.79	16.49
CHAMBERS	52.19	33.39	54.17	20.78
CHEROKEE	54.34	42.77	57.81	15.05
CHILTON	54.55	46.62	54.50	7.88
CHOCTAW	54.93	47.53	58.56	11.03
CLARKE	56.93	44.58	60.04	15.46
CLAY	55.89	42.42	57.28	14.86
CLEBURNE	54.07	43.92	60.24	16.33
COFFEE	56.35	41.21	68.47	27.26
COLBERT	57.27	43.87	57.99	14.13
CONECUH	60.76	47.50	60.88	13.38
COOSA	54.11	43.54	52.83	9.29
COVINGTON	59.71	46.04	60.40	14.36
CRENSHAW	55.89	45.64	60.65	15.01
CULLMAN	57.70	53.05	64.10	11.06
DALE	55.00	40.66	61.32	20.65
DALLAS	52.70	46.35	54.04	7.68
DEKALB	55.28	40.12	58.84	18.72
ELMORE	52.69	43.13	55.98	12.85
ESCAMBIA	64.19	51.06	59.61	8.55
ETOWAH	54.74	43.19	57.54	14.35
FAYETTE	57.14	56.86	57.28	0.42
FRANKLIN	58.43	44.36	59.88	15.52
GENEVA	57.73	37.28	61.80	24.53
GREENE	54.20	49.69	52.92	3.24
HALE	53.94	49.76	51.66	1.91
HENRY	53.68	39.79	59.53	19.74

Table 91. Normal, 2010, 2015, and 2010 to 2015 difference in precipitation in Alabama by county, in inches – Continued.

County	Normal Precipitation (1980-2010)	2010 Observed Precipitation	2015 Observed Precipitation	Difference from 2010 to 2015
HOUSTON	54.99	37.28	64.73	27.45
JACKSON	57.53	41.85	59.59	17.75
JEFFERSON	56.30	46.70	59.79	13.10
LAMAR	56.87	54.94	57.58	2.64
LAUDERDALE	57.75	43.10	59.47	16.37
LAWRENCE	56.96	49.38	62.05	12.66
LEE	51.28	37.65	65.21	27.56
LIMESTONE	56.49	44.21	61.94	17.73
LOWNDES	52.91	44.43	56.77	12.34
MACON	51.98	38.35	61.03	22.68
MADISON	55.82	44.57	61.00	16.43
MARENGO	53.76	48.71	58.87	10.16
MARION	58.92	57.97	64.30	6.33
MARSHALL	54.53	40.35	58.90	18.54
MOBILE	64.96	51.90	69.79	17.89
MONROE	57.72	45.24	62.83	17.59
MONTGOMERY	52.37	41.90	59.38	17.48
MORGAN	56.19	44.42	61.46	17.04
PERRY	52.96	47.24	53.60	6.35
PICKENS	54.57	54.69	49.45	-5.23
PIKE	54.16	45.24	60.77	15.53
RANDOLPH	53.52	41.41	54.15	12.74
RUSSELL	48.78	40.55	60.43	19.87
SHELBY	55.18	47.99	57.89	9.90
ST. CLAIR	55.12	42.82	61.57	18.75
SUMTER	54.25	51.69	55.01	3.32
TALLADEGA	53.84	49.00	60.94	11.93
TALLAPOOSA	53.62	34.26	51.11	16.85
TUSCALOOSA	55.09	49.98	54.11	4.12
WALKER	58.02	52.75	61.21	8.47
WASHINGTON	60.16	45.58	60.17	14.59
WILCOX	54.56	43.87	63.49	19.62
WINSTON	59.11	54.70	62.65	7.95
AVERAGE	**55.66**	**45.59**	**59.22**	**13.63**

Table 92. Normal, 2010, 2015, and 2010 to 2015 difference in precipitation in Alabama by subbasin, in inches.

Hydrologic Subbasin	Normal Precipitation (1980-2010)	2010 Observed Precipitation	2015 Observed Precipitation	Difference from 2010 to 2015
03130002	51.33	37.04	58.58	21.54
03130003	50.05	40.43	61.35	20.91
03130004	53.98	38.81	60.84	22.03
03130012	55.31	37.28	66.50	29.21
03140103	59.69	45.12	61.99	16.86
03140104	62.18	47.86	59.10	11.23
03140106	66.10	54.16	61.48	7.32
03140107	65.60	59.03	62.30	3.28
03140201	55.06	39.68	62.94	23.26
03140202	55.79	41.63	64.49	22.86
03140203	57.46	36.24	62.44	26.20
03140301	56.16	46.46	59.49	13.03
03140302	55.58	46.56	58.36	11.80
03140303	57.59	47.31	60.05	12.74
03140304	63.09	50.07	60.32	10.25
03140305	62.35	46.23	61.54	15.32
03150105	54.67	42.85	58.44	15.59
03150106	54.27	45.48	61.43	15.95
03150107	54.14	45.99	55.04	9.05
03150108	54.18	43.76	58.35	14.60
03150109	53.91	35.32	51.52	16.21
03150110	52.42	38.97	60.53	21.57
03150201	53.17	44.99	55.18	10.19
03150202	54.87	48.27	56.09	7.82
03150203	53.88	45.24	60.08	14.84
03150204	58.35	45.10	62.38	17.28

Table 92. Normal, 2010, 2015, and 2010 to 2015 difference in precipitation in Alabama by subbasin, in inches – Continued.

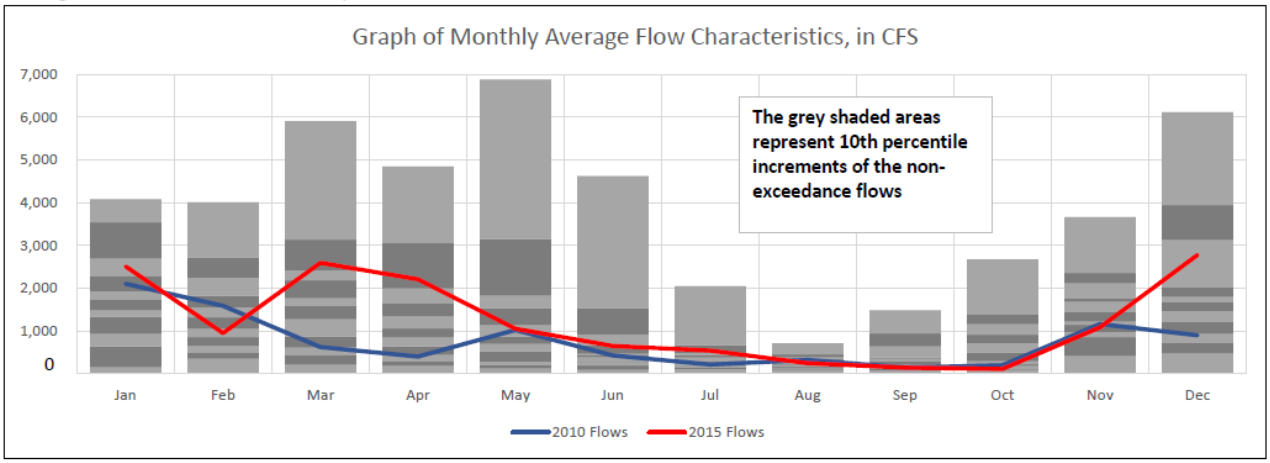
Hydrologic Subbasin	Normal Precipitation (1980-2010)	2010 Observed Precipitation	2015 Observed Precipitation	Difference from 2010 to 2015
03160101	58.38	50.08	63.18	13.09
03160103	58.65	58.02	62.90	4.88
03160105	56.77	56.54	58.26	1.71
03160106	54.35	53.06	51.47	-1.59
03160107	56.05	54.08	54.48	0.41
03160108	54.30	53.46	54.35	0.88
03160109	57.79	52.66	61.74	9.09
03160110	58.48	53.76	63.16	9.41
03160111	55.51	46.61	61.06	14.45
03160112	56.18	50.49	55.72	5.22
03160113	53.99	49.27	51.91	2.65
03160201	54.37	48.29	58.39	10.09
03160202	54.44	51.83	55.38	3.55
03160203	58.52	45.76	58.78	13.02
03160204	64.86	53.18	65.44	12.25
03160205	66.50	54.66	66.63	11.96
03170002	57.82	40.25	62.77	22.52
03170008	63.70	47.35	70.44	23.09
03170009	66.39	49.94	78.71	28.77
06020001	55.77	40.69	58.23	17.54
06030001	55.68	40.00	59.51	19.51
06030002	56.47	44.71	61.37	16.65
06030004	57.34	42.28	61.24	18.96
06030005	57.36	45.01	59.71	14.70
06030006	58.55	44.41	59.20	14.79
Average	**57.24**	**46.59**	**60.29**	**13.70**

Comparison of 2010 and 2015 Subbasin Flows to Historical Record

Another component of the analysis conducted for this report was to assess how the specific hydrology of 2010 and 2015 for each subbasin compared with the statistical streamflow data presented in the 2017 Report. In the following figure (figure 81), the 2010 and 2015 monthly average flows for the Bear Creek (06030006) subbasin are shown in comparison to the historical statistical summary of the streamflows for that subbasin as an example of the information presented for all 53 subbasins. Streamflow statistics were based on observed and estimated monthly streamflows using a 40-year period from January 1975 through December 2014. This period was selected from the streamflow data available because it provided a representative number of low and high streamflow years during the 40-year data assessment period. The statistics were calculated for all 53 subbasins and the complete results are contained in Appendix I.

Figure 81. Monthly average flows for 2010 and 2015 compared to the streamflow statistical summary – Bear Creek Subbasin (06030006).

Gage#: 06030006 Name: Bear Creek
Period of Record: Jan-1975 - Dec-2014
Drainage Area: 795 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE 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
2010 Flows	2,106	1,591	629	403	1,025	431	218	326	149	204	1,166	904
2015 Flows	2,510	952	2,591	2,211	1,055	652	543	247	145	115	1,088	2,779

Relative Net Demand Comparisons for 2010 and 2015 by Subbasin

As discussed in the 2017 Report, a method for evaluating surface water availability in a subbasin is to express the consumptive use (or net demand) in relation to the streamflow in the subbasin. This can be accomplished by calculating the relative net demand, or RND, which is the ratio of the net demand to an estimate of the average streamflow at the mouth of the subbasin (Weiskel and others, 2007). The RND for a subbasin is expressed as follows:

$$RND = \frac{D_{out} - D_{in}}{Q_{out}} \tag{1}$$

where
D_{out} is the total withdrawals in the subbasin, in cubic feet per second;
D_{in} is total return flows plus imports of water and wastewater to the basin, in cubic feet per second; and
Q_{out} is the average outflow of the subbasin, in cubic feet per second (Reeves, 2010).

Weiskel and others (2007) stated that positive ratios of RND indicate withdrawals are greater than return flows and negative ratios of RND indicate return flows (plus imports) are greater than withdrawals in a subbasin. Therefore, RND can be used to characterize return-flow-dominated and withdrawal-dominated systems. For this report, cumulative consumptive demands that included demands from upstream subbasins were used to calculate RND ratios.

For the calculation of RND ratios for this report, monthly cumulative consumptive 2010 and 2015 demands were compared to the corresponding monthly flow statistics for each subbasin. From these RND ratios, annual averages and four seasonal averages (January-March, April-June, July-September, and October-December) were calculated. Results of the comparisons revealed that all the monthly consumptive 2010 and 2015 net demands were less than the average monthly streamflow for each subbasin; therefore, all of the RND ratios were less than 1.0. The complete tabular summary of the RND ratios for both 2010 and 2015 are provided in Appendix J.

Monthly subbasin ratios of the 2010 RNDs ranged from -0.20 in September for the Locust Fork (03160111) to 0.546 in October for the Mulberry Fork (03160109) (Appendix J, table J-1). Monthly subbasin ratios of the 2015 RND ranged from -0.731 in October for the Locust Fork (03160111) to 0.316 in September for the Escatawpa (03170008) (Appendix J table J-2). The higher ratios for the Mulberry Fork (03160109) and the Escatawpa (03170008) subbasins are significantly higher in the respective years for only a brief period during the August through October timeframe and are due mainly to the impacts of upstream water storage and reservoir operations. The values for the remaining subbasins in each year are substantially lower with most equal to 0.10 or lower.

Average annual ratios of the 2010 RND ranged from -0.046 for the Locust Fork subbasin to 0.097 for the Escatawpa (Appendix J, table J-3). The seasonal ratios of the 2010 RND ranged from -0.11 in both the July-September and the October-December timeframes for the Locust Fork subbasin to 0.34 in the October-December timeframe for the Mulberry Fork subbasin. The highest 2010 annual and three of the four seasonal RND ratios are for the Escatawpa (03170008) and

consist of 0.097 for the average annual value, 0.04 for the January-March seasonal ratio, 0.14 for the April-June seasonal ratio, and 0.254 for the July-September seasonal ratio. For the October-December seasonal ratio, the Mulberry Fork (03160109) leads with a value of 0.34; slightly edging out the 0.32 ratio for Escatawpa (03170008).

Average annual ratios of the 2015 RND ranged from -0.065 for the Locust Fork subbasin to 0.082 for the Escatawpa subbasin (Appendix J, table J-4). The seasonal ratios of the 2015 RND ranged from -0.326 in the October-December timeframe for the Locust Fork subbasin to 0.254 in the October-December timeframe for the Escatawpa subbasin. The highest 2015 annual and seasonal RND ratios are all for the Escatawpa (03170008) and consist of 0.082 for the average annual ratio, 0.077 for the January-March seasonal ratio, 0.077 for the April-June seasonal ratio, 0.254 for the July-September seasonal ratio, and 0.093 for the October-December seasonal ratio.

In addition to the tabular summaries, the RND ratios were presented in a spatial or map-based perspective by subbasin. The figures below provide the information for the average annual ratios for 2010 (figure 82) and 2015 (figure 83). The monthly and seasonal maps for each year by subbasin are provided in Appendix K.

Figure 82. Map of Average Annual RND Ratios by subbasin in Alabama for 2010.

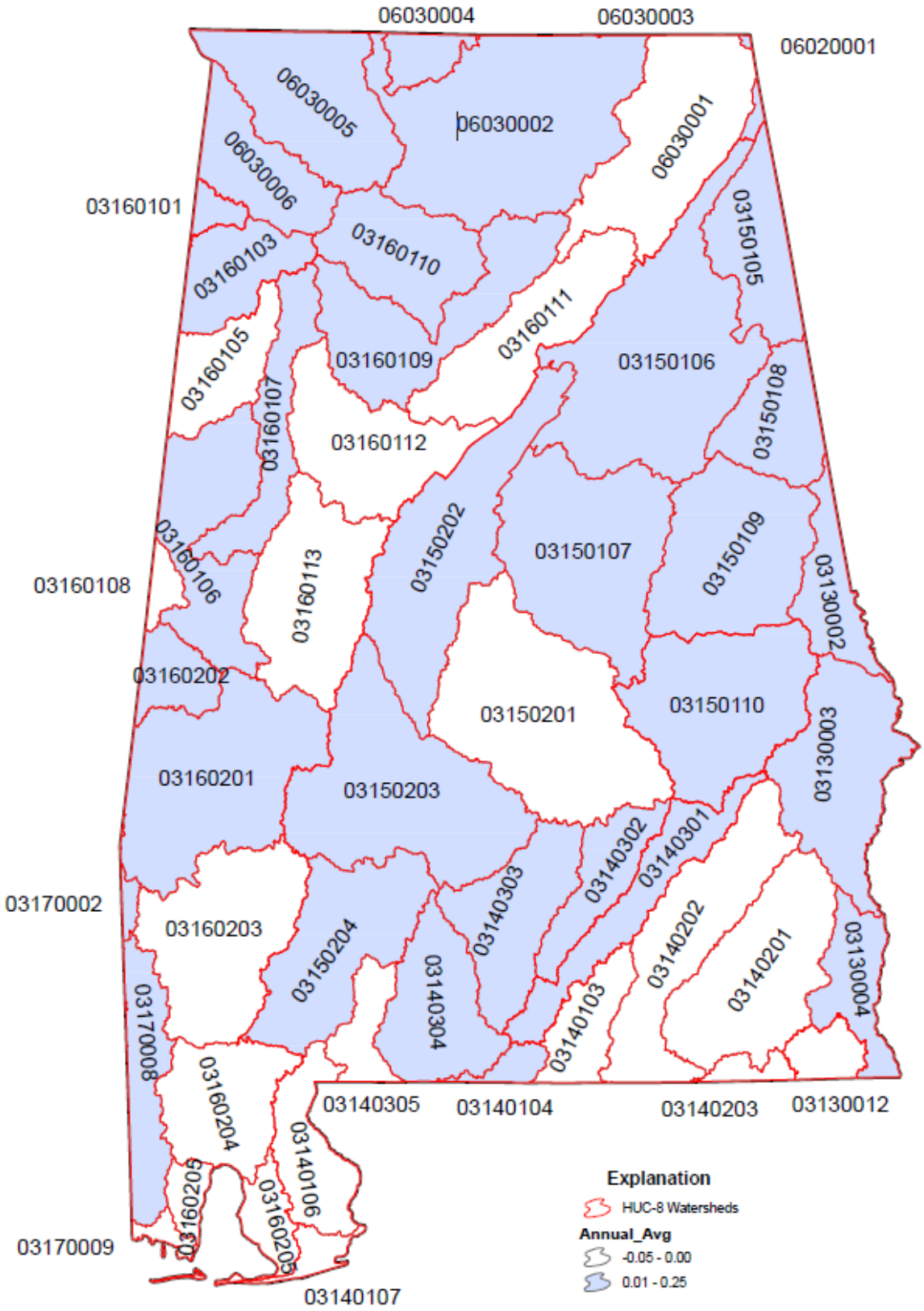
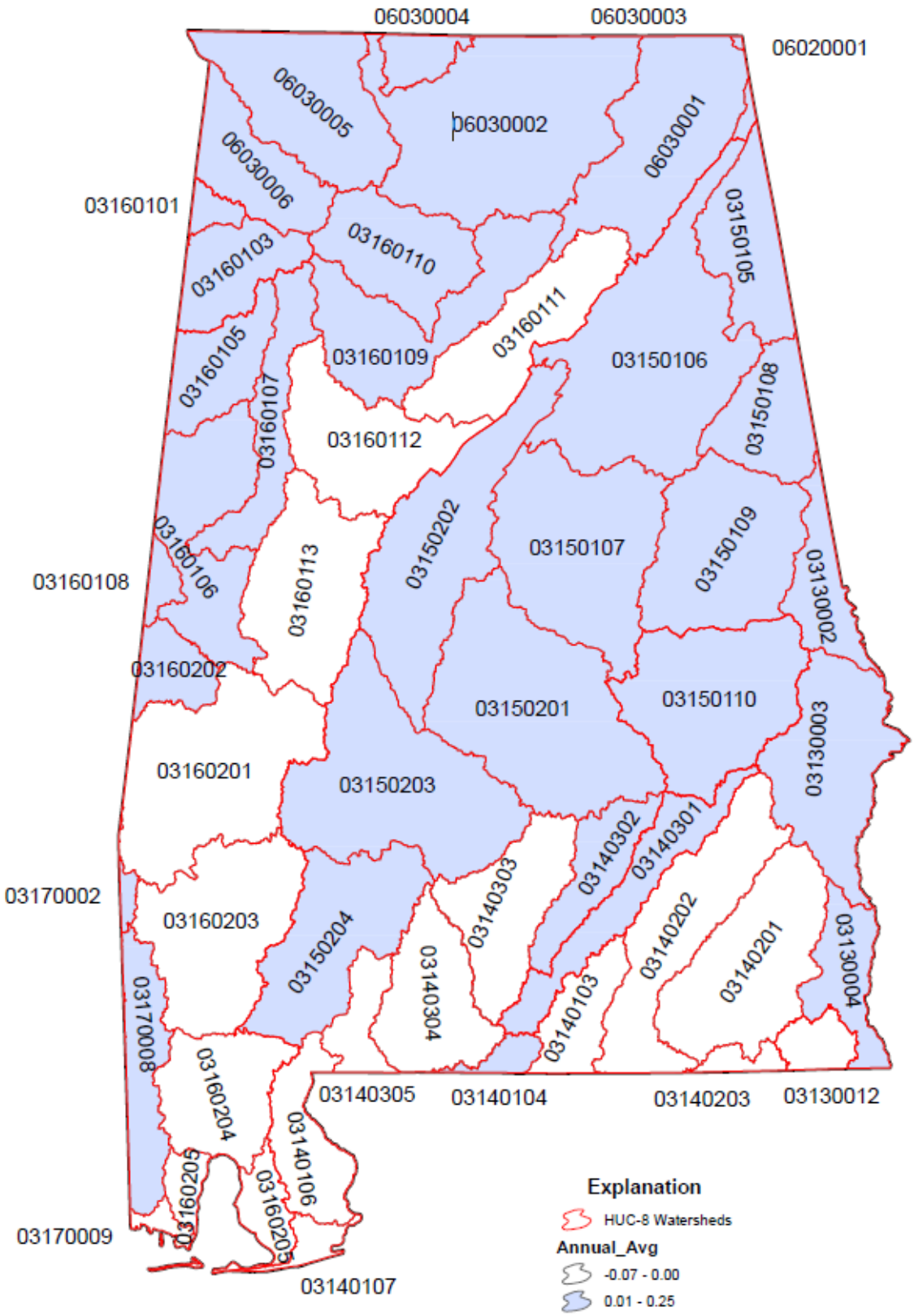


Figure 83. Map of Average Annual RND Ratios by subbasin in Alabama for 2015.



Conclusion

Water withdrawals by source of supply and eight categories of use—public supply, self-supplied residential, irrigation, livestock, aquaculture, self-supplied industrial, mining, and thermoelectric power were estimated by month for both counties and eight-digit hydrologic watersheds or subbasins (HUC-8) for Alabama for 2015. Site-specific data were used as a basis for estimates for public supply, public-supplied deliveries, self-supplied industrial, mining, thermoelectric power, and golf course, nursery, and sod irrigation and was primarily developed from information contained in the Alabama Water Use Reporting Program (AWURP). Aggregated data from additional sources helped to develop estimates for self-supplied residential, crop irrigation, livestock, and aquaculture.

Additionally, water use estimates were developed for three sectors – public supply; irrigation; and a combined sector of industrial, thermoelectric power, and mining. These three sectors were developed due to limitations in the information regarding the source of water return data. The eight water withdrawal sectors were aggregated to correspond to these three return sectors in order to calculate net demand (or consumption) summaries for each county and subbasin. Finally, an analysis was conducted to assess the differences in water availability and use for the years 2010 and 2015.

Total water withdrawals were about 8,239 million gallons per day (MGD) during 2015. Surface water continues to be the main source of water supply and provided about 94 percent of the total withdrawals (7,743 MGD) with the remaining 5 percent (496 MGD) from groundwater. More surface water than groundwater was used in all categories except aquaculture, mining, and self-supplied residential. Estimated water withdrawals by sector and in descending order were thermoelectric power, 6,624 MGD; public supply, 761 MGD; self-supplied industrial, 495 MGD; irrigation, 223 MGD; aquaculture, 49 MGD; self-supplied residential, 37 MGD; livestock, 26 MGD; and mining, 22 MGD. It should be noted that 2015 marks a significant reduction in Alabama's overall water withdrawal total. From 2000 through 2010, water withdrawals have been relatively constant. This is primarily driven by the closure of three major facilities; the International Paper Courtland facility in Lawrence County and TVA's coal-fired generating units at the Widows Creek facility in Jackson County and the Colbert Fossil Plant in Colbert County. These three facility closures account for the majority of the almost 2 billion gallons per day reduction in water withdrawals.

Total net water demands reflect the significant impact of returns. Total net demands for Alabama for 2015 were 114 MGD compared to total withdrawals of 8,239 for an overall consumption rate of just over 1 percent. The subbasins with the largest net demands for 2015 are the Mulberry Fork (03160109; 80 MGD), the Escatawpa (03170008; 53 MGD), and the Cahaba (03150202; 31 MGD) subbasins. The subbasins with the smallest net demands for 2015 are the Locust Fork (03160111; -74 MGD), the Mobile-Tensaw (03160204; -52 MGD), the Upper Black Warrior (03160112; -45 MGD), and the Upper Alabama (03150201; -22 MGD) subbasins.

For the public supply sector, the net demands for 2015 were -70 MGD. This represents the largest change from 2010 in water demands among all the various sectors (98 MGD lower; 28 MGD in 2010 versus -70 MGD in 2015). A number of factors may account for this but the most significant is probably the fact that rainfall in 2010 was approximately 10 inches below normal while rainfall in 2015 was approximately 3 inches above normal. The subbasins with the largest public-supply net demands for 2015 are the Escatawpa (03170008; 52 MGD), the Mulberry Fork (03160109; 36 MGD) and the Cahaba (03150202; 24 MGD) subbasins. The subbasins with the smallest public-supply net demands for 2015 are the Locust Fork (03160111; -62 MGD) and the Mobile-Tensaw (03160204; -44 MGD) subbasins.

For the agriculture sector, the net demands for 2015 were 161 MGD. The subbasins with the largest net demands for 2015 are the Wheeler Lake (06030002; 13 MGD), the Middle Coosa (03150106; 12 MGD), the Lower Black Warrior (03160113; 11 MGD) the Middle Chattahoochee-Lake Harding (03130003; 10 MGD) and the Upper Alabama (03150201; 10 MGD) subbasins. Since this sector is considered 100 percent consumptive, there are no water returns and zero is the lowest possible net water demand value.

For the industrial, thermoelectric and mining sector, the net demands for 2015 is 23 MGD. The subbasins with the largest net demands for 2015 are the Mulberry Fork (03160109; 42 MGD) the Lower Chattahoochee (03130004; 22 MGD), and the Wheeler Lake (06030002; 11 MGD) subbasins. The subbasins with the smallest industrial, thermoelectric, and mining net demands for 2015 are the Upper Black Warrior (03160112; -31 MGD), the Locust Fork (03160111; -16 MGD), and the Mobile Tensaw (03160204; -11 MGD) subbasins.

Once the development of net demand estimates were complete, the process of then assessing surface water availability began with an analysis of rainfall that occurred in both 2010 and 2015. While the long-term average precipitation in Alabama is approximately 55.66 inches, the 2010 average statewide precipitation was estimated at 45.59 inches or approximately 10 inches below normal. In comparison, the 2015 average statewide precipitation was estimated at 59.22 inches or more than three inches above normal. This information provided a backdrop for the more detailed analysis of individual subbasins.

The surface-water availability for each of the state's 53 subbasins was assessed by comparing 2010 and 2015 monthly net demands to corresponding monthly streamflows and calculating relative net demand (RND) ratios. Monthly subbasin ratios of the 2010 RNDs ranged from -0.20 in September for the Locust Fork (03160111) to 0.546 in October for the Mulberry Fork (03160109) subbasins. Monthly subbasin ratios of the 2015 RND ranged from -0.731 in October for the Locust Fork (03160111) to 0.316 in September for the Escatawpa (03170008) subbasins. The higher ratios for the Mulberry Fork (03160109) and the Escatawpa (03170008) subbasins are significantly higher in the respective years for only a brief period during the August through October timeframe and are due mainly to the impacts of upstream water storage and reservoir operations. The values for the remaining subbasins in each year are substantially lower with most equal to 0.10 or lower.

Average annual ratios of the 2010 RND ranged from -0.046 for the Locust Fork subbasin to 0.097 for the Escatawpa subbasin. The seasonal ratios of the 2010 RND ranged from -0.11 in

both the July-September and the October-December timeframes for the Locust subbasin to 0.34 in the October-December timeframe for the Mulberry subbasin. The highest 2010 annual and three of the four seasonal RND ratios are for the Escatawpa (03170008) subbasin and consist of 0.097 for the average annual ratio, 0.04 for the January-March seasonal ratio, 0.14 for the April-June seasonal ratio, and 0.254 for the July-September seasonal ratio. For the October-December seasonal ratio, the Mulberry Fork (03160109) subbasin leads with a ratio of 0.34; slightly edging out the 0.32 ratio for the Escatawpa (03170008) subbasin.

Average annual ratios of the 2015 RND ranged from -0.065 for the Locust Fork subbasin to 0.082 for the Escatawpa subbasin. The seasonal ratios of the 2015 RND ranged from -0.326 in the October-December timeframe for the Locust Fork subbasin to 0.254 in the October-December timeframe for the Escatawpa subbasin. The highest 2015 annual and seasonal RND ratios are all for the Escatawpa (03170008) and consist of 0.082 for the average annual ratio, 0.077 for the January-March seasonal ratio, 0.077 for the April-June seasonal ratio, 0.254 for the July-September seasonal ratio, and 0.093 for the October-December seasonal ratio.

This report represents the latest summary of water quantity data and information on the State of Alabama's water resources. It continues to underscore the need to conduct periodic water withdrawal and consumption assessments using data and information from the AWURP. Under the AWURP and its annual data collection process, OWR maintains the state's most comprehensive data repository for water-use information. This data is vital to the ability to connect the results of both the surface and groundwater capacity assessments with the impacts of water withdrawals in individual subbasins to ensure water resources can continue to meet local and regional needs. The OWR continues to support the state's efforts to maintain and enhance the collection of updated streamflow and reservoir data by state and federal agencies as well as other organizations. Identifying and ensuring that key streamflow gages remain active and are strategically located are not only critical to water quantity and water quality assessments but provide the detailed information necessary to better understand how and where water usage and streamflows are changing over time and how those changes are altering historic flood and drought patterns and magnitudes.

In conclusion, OWR is committed to providing updated water use and availability reports at least every five years. The information is vital to help guide potential enhancements to state water policies and water resource management activities as well as indicate where additional focus may be needed in the future.

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Appendices

Appendix A – Hydrologic Regions and Subbasins in Alabama.

Appendix B – Average Water Withdrawals by County

Appendix C – Average Water Withdrawals by Subbasin.

Appendix D – Monthly Water Withdrawals, Returns, and Net Demands by County.

Appendix E – Monthly Water Withdrawals, Returns, and Net Demands by Subbasin.

Appendix F – Public Supplier Survey Form

Appendix G – Irrigation Survey Form.

Appendix H – Hydroelectric Dams.

Appendix I – 2010 and 2015 Streamflow Comparison to Statistical Summaries by Subbasin

Appendix J – 2010 and 2015 RND Ratio Tables by Subbasin

Appendix K – 2010 and 2015 RND Ratio Maps by Subbasin

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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 E-1 lists each hydrologic region with its associated subregions and subbasins by hydrologic unit code and name.

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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

Average Water Withdrawals by County

The following one-page summaries of water-use information by county present withdrawals by water-use category, public supplier, and major North American Industry Classification System (NAICS) groups, a pie chart of the distribution of total withdrawals by water-use category, and a map that shows the location of the county within the State. See the first example on the following county page for Autauga. Also listed are totals for population and population served by public supply. In each of the county summaries, a table lists average daily withdrawals for the categories of use. The withdrawals are totaled by source of water used (surface water [SW] or groundwater [GW]) by category, and the percentage of use is indicated. Each public supplier is listed by the county in which the withdrawal occurs; therefore, a public supplier may be listed in more than one county depending on the location of its water sources. For example, Birmingham Water Works Board withdraws surface water from Blount, Cullman, Jefferson, and Walker Counties, and is therefore listed on each of the corresponding county pages. Abbreviations were made to allow for system names to fit in the space provided and are shown for public supply in Table B-1.

In the tables for category, public supplier, and NAICS groupings, a value of 0.00 MGD was used if the withdrawal was less than 0.01 MGD. As a result, some totaled withdrawals from these tables may be less than the totals shown for public supply or industry in the water use-category table. Numbers may not sum to total withdrawals because of rounding. “Residential” refers to self-supplied residential withdrawals. A table of withdrawals by NAICS code lists withdrawals by groundwater (GW) or surface water (SW). The NAICS groupings include the water-use categories of commercial, industrial, and thermoelectric power. Abbreviations were made to allow for system names to fit in the space provided and are shown for the NAICS codes in Table B-2.

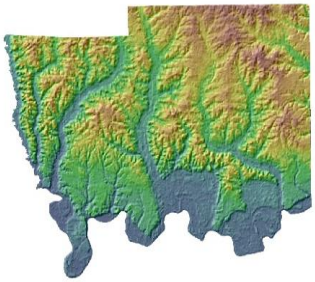
Table B-1. Public supply abbreviations.

Name	Abbreviation
Authority	Auth.
Board	Bd.
Corporation	Corp.
County	Co.
Department	Dept.
Water & Fire Protection Authority	W&FPA
Water & Fire Protection District	W&FPD
Water & Sewer Authority	W&SA
Water & Sewer Commissioners	W&S Comm.
Water & Sewer Department	W&SD
Water Authority	WA
Water District	WD
Water Supply District	WSD
Water Treatment Plant	WTP
Water Works and Sanitary Sewer Board	WW&SSB
Water Works and Sewer Board	WW&SB
Water Works Board	WWB
Water, Sewer, & Fire Protection Authority	WS&FPA
Water, Sewer, & Fire Protection District	WS&FPD
Water, Sewer, & Gas Board	WS&GB
Waterworks & Sewer Board	WW&SB

Table B-2. NAICS code abbreviations.

NAICS (North American Indistry Classification System)		
NAICS Code	NAICS Description	NAICS Abbreviated Name
1123	Poultry and Egg Production	Poultry & Egg Prod
2211	Electric Power Generation, Transmission and Distribution	Elect Pwr Gen, Trans & Dist
2371	Oil and Gas Extraction	Oil and Gas Extraction
3111	Animal Food Manufacturing	Animal Food Man
3112	Grain and Oilseed Milling	Grain & Oilseed Milling
3116	Animal Slaughtering and Processing	Animal Slaughtering & Process
3117	Seafood Product Preparation and Packaging	Seafood Product Prep & Pkg
3119	Other Food Manufacturing	Otr Food Man
3121	Beverage Manufacturing	Beverage Man
3132	Fabric Mills	Fabric Mills
3211	Sawmills and Wood Preservation	Sawmills & Wood Preservation
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	Veneer, Ply, & Eng Wood Man
3219	Other Wood Product Manufacturing	Other Wood Product Manufact
3221	Pulp, Paper, and Paperboard Mills	Pulp, Paper, & Paperboard Mills
3222	Converted Paper Product Manufacturing	Cnv Paper Product Man
3241	Petroleum and Coal Products Manufacturing	Petro & Coal Products Man
3251	Basic Chemical Manufacturing	Basic Chemical Manufact
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	Pest, Fert, & Otr Ag Chem Man
3255	Paint, Coating, and Adhesive Manufacturing	Paint, Coat, & Adhsv Man
3261	Plastics Product Manufacturing	Plastics Product Man
3262	Rubber Product Manufacturing	Rubber Product Man
3273	Cement and Concrete Product Manufacturing	Cement & Concrete Prod Man
3279	Other Nonmetallic Mineral Product Manufacturing	Otr Nonmetallic Min Prod Man
3311	Iron and Steel Mills and Ferroalloy Manufacturing	Iron & Steel Mills & Ferro Man
3312	Steel Product Manufacturing from Purchased Steel	Steel Prod Man from Pur Steel
3315	Foundries	Foundries
3323	Architectural and Structural Metals Manufacturing	Arch & Struct Metals Man
3361	Motor Vehicle Manufacturing	Motor Vehicle Manufacturing
4233	Lumber and Other Construction Materials Merchant Wholesalers	Lum & Otr Const Matls Wholeslrs
4244	Grocery and Related Product Merchant Wholesalers	Groc & Rel Prod Wholeslrs
4246	Chemical and Allied Product Merchant Whiolesalers	Chem & Allied Prod Wholeslrs
4889	Other Support Activities for Transportation	Otr Support Activities for Trans
4931	Warehousing and Storage	Warehousing & Storage
9281	National Security and International Affairs	Natl Security & Internatl Affairs

AUTAUGA



Population	55,347
Pop served by public supply	48,998

Withdrawals, in Million Gallons per Day

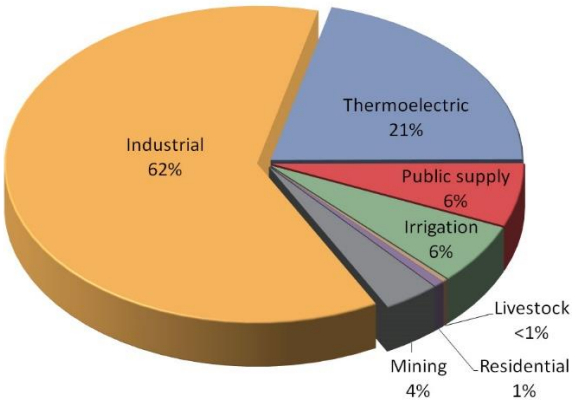
Category	GW	SW	Totals
Public Supply	3.65 100%	0.00 0%	3.65
Residential	0.38 100%	0.00 0%	0.38
Irrigation	3.36 96%	0.16 4%	3.52
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.08 42%	0.11 58%	0.19
Industrial	1.83 5%	32.97 95%	34.80
Mining	1.40 69%	0.62 31%	2.02
Thermoelectric	0.00 0%	11.86 100%	11.86
Totals	10.70 19%	45.72 81%	56.43

Withdrawals by Public Supplier, in MGD

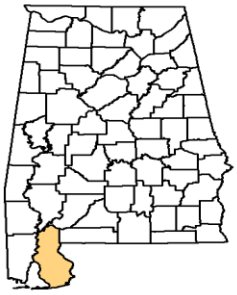
System Name	GW	SW	Total
Autaugaville Water System	0.20	0.00	0.20
Billingsley Water System	0.10	0.00	0.10
Marbury Water System	0.47	0.00	0.47
Autauga Co. WA	0.58	0.00	0.58
Prattville Water Works Bd.	2.01	0.00	2.01
West Autauga WA	0.29	0.00	0.29

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	11.86	11.86
Pulp, Paper, & Paperboard Mills	1.83	32.97	34.80



BALDWIN



Population	203,709
Pop served by public supply	174,907

Withdrawals, in Million Gallons per Day

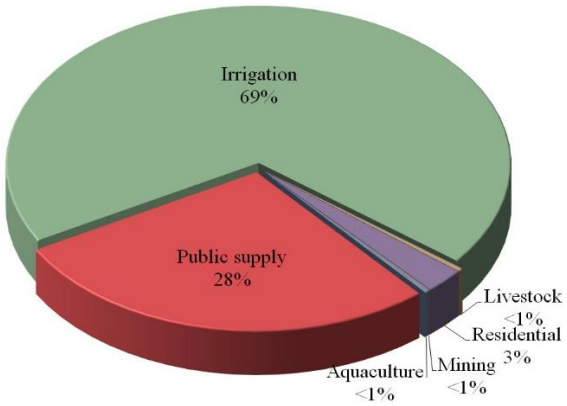
Category	GW	SW	Totals
Public Supply	23.70 100%	0.00 0%	23.70
Residential	2.15 100%	0.00 0%	2.15
Irrigation	47.28 81%	11.15 19%	58.42
Aquaculture	0.05 50%	0.05 50%	0.10
Livestock	0.13 45%	0.16 55%	0.29
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.22 100%	0.00 0%	0.22
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	73.52 87%	11.36 13%	84.88

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Belforest Water System	0.77	0.00	0.77
Fairhope	4.53	0.00	4.53
Loxley	0.87	0.00	0.87
North Baldwin Utilities	3.14	0.00	3.14
Riviera Utilities	2.23	0.00	2.23
Robertsdale	0.99	0.00	0.99
Silverhill	0.13	0.00	0.13
Spanish Fort Water System	0.21	0.00	0.21
Daphne Utilities Bd.	2.34	0.00	2.34
East Central Baldwin Co. WA	0.33	0.00	0.33
Gulf Shores Utilities Bd.	3.95	0.00	3.95
Orange Beach WS&FP	3.72	0.00	3.72
Perdido Bay WS&FPD	0.33	0.00	0.33
Summerdale Water Dept.	0.15	0.00	0.15

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



BARBOUR

Population	26,489
Pop served by public supply	24,587

Withdrawals, in Million Gallons per Day

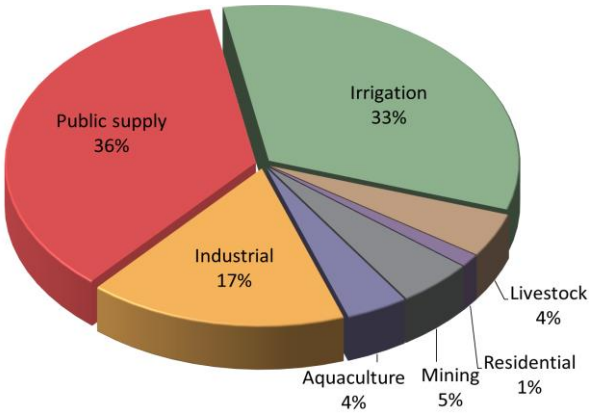
Category	GW	SW	Totals
Public Supply	3.23 100%	0.00 0%	3.23
Residential	0.12 100%	0.00 0%	0.12
Irrigation	0.58 19%	2.41 81%	2.98
Aquaculture	0.18 50%	0.18 50%	0.36
Livestock	0.16 39%	0.25 61%	0.41
Industrial	1.50 100%	0.00 0%	1.50
Mining	0.30 68%	0.14 32%	0.44
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	6.07 67%	2.98 33%	9.04

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Blue Springs Water System	0.05	0.00	0.05
Clio	0.32	0.00	0.32
Louisville Water Works	0.15	0.00	0.15
Baker Hill WA	0.50	0.00	0.50
Clayton WW&SB	0.27	0.00	0.27
Cowikee WA	0.10	0.00	0.10
Eufaula WW&SB	1.74	0.00	1.74
West Barbour Co. WA	0.09	0.00	0.09

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Animal Slaughtering & Process	1.50	0.00	1.50



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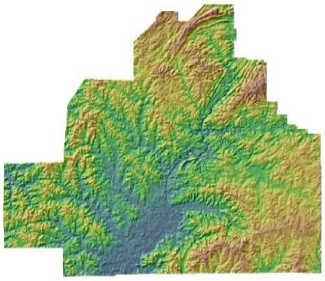


Population	22,583
Pop served by public supply	20,947

Withdrawals, in Million Gallons per Day

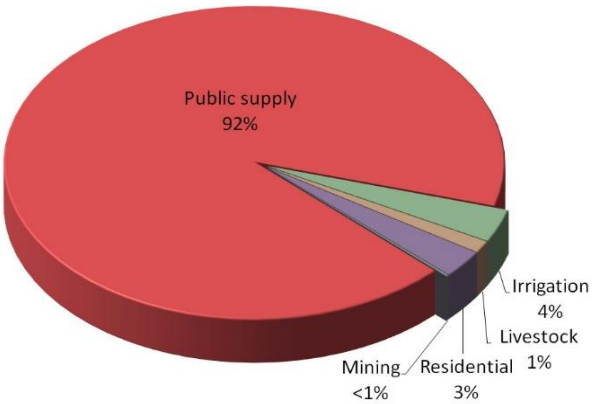
Category	GW	SW	Totals
Public Supply	5.18 100%	0.00 0%	5.18
Residential	0.16 100%	0.00 0%	0.16
Irrigation	0.03 18%	0.16 82%	0.19
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.03 43%	0.04 57%	0.07
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.01 100%	0.00 0%	0.01
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.42 96%	0.20 4%	5.61

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Centreville Water System	0.85	0.00	0.85
Citizens' Water Service, Inc.	1.23	0.00	1.23
Green Pond Water System	0.97	0.00	0.97
West Blocton Water Works	0.61	0.00	0.61
Wilton Water Works	0.45	0.00	0.45
Brent Utilities Bd.	0.84	0.00	0.84
Warrior River WA	0.24	0.00	0.24

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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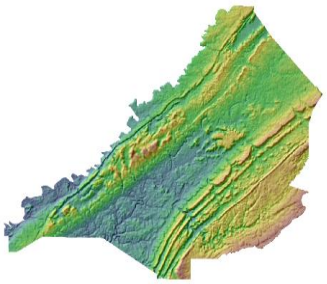


Population	57,673
Pop served by public supply	44,815

Withdrawals, in Million Gallons per Day

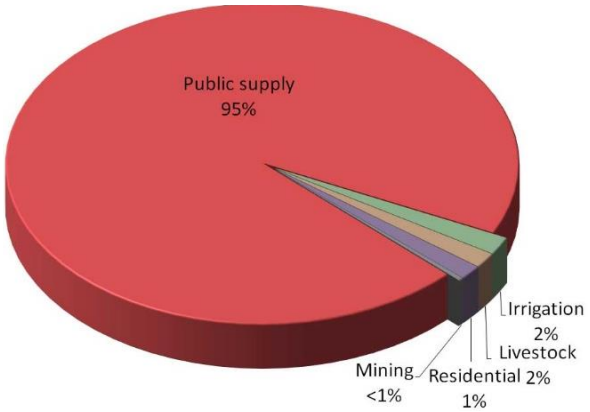
Category	GW	SW	Totals
Public Supply	2.78 5%	54.09 95%	56.87
Residential	0.86 100%	0.00 0%	0.86
Irrigation	0.20 19%	0.88 81%	1.08
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.43 48%	0.47 52%	0.90
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.19 100%	0.00 0%	0.19
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	4.46 7%	55.44 93%	59.90

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Allgood Water Works	0.00	0.07	0.07
Altoona Water & Sewer	0.14	0.00	0.14
Birmingham WWB	0.00	51.07	51.07
Cleveland Water Works	0.30	0.00	0.30
Snead Water Works	0.19	0.00	0.19
Blount Co. WA	0.00	2.07	2.07
Blountsville Utility Bd.	0.57	0.00	0.57
Nectar Water Dept.	0.02	0.00	0.02
Oneonta Utilities Bd.	1.57	0.89	2.45

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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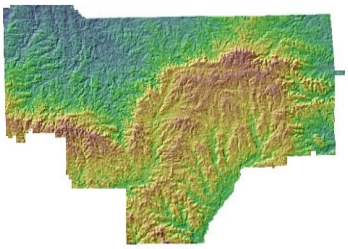


Population	10,696
Pop served by public supply	9,958

Withdrawals, in Million Gallons per Day

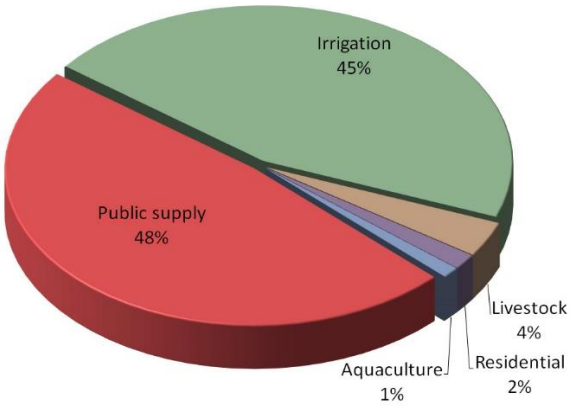
Category	GW	SW	Totals
Public Supply	2.11 100%	0.00 0%	2.11
Residential	0.07 100%	0.00 0%	0.07
Irrigation	0.92 46%	1.08 54%	2.00
Aquaculture	0.00 0%	0.05 100%	0.05
Livestock	0.06 38%	0.10 63%	0.16
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.16 72%	1.23 28%	4.39

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Midway Water Works	0.10	0.00	0.10
South Bullock Co. WA	0.66	0.00	0.66
Union Springs Utilities Bd.	1.35	0.00	1.35

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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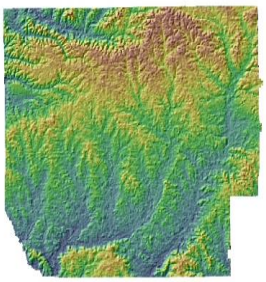
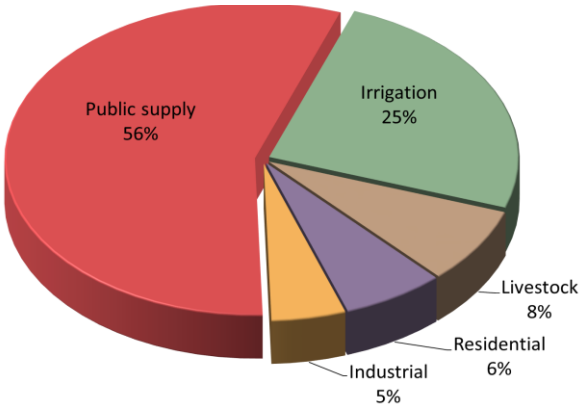


Population	20,154
Pop served by public supply	16,806

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	2.28 100%	0.00 0%	2.28
Residential	0.27 100%	0.00 0%	0.27
Irrigation	0.01 1%	0.99 99%	1.01
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.13 41%	0.19 59%	0.32
Industrial	0.19 100%	0.00 0%	0.19
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.89 71%	1.18 29%	4.07



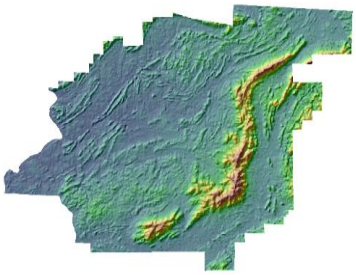
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Town of McKenzie - Town Hall	0.11	0.00	0.11
Butler Co. WA	0.98	0.00	0.98
Georgiana WW&SB	0.24	0.00	0.24
Greenville WW&SB	0.78	0.00	0.78
The WW&SB of Fort Deposit	0.17	0.00	0.17

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.19	0.00	0.19

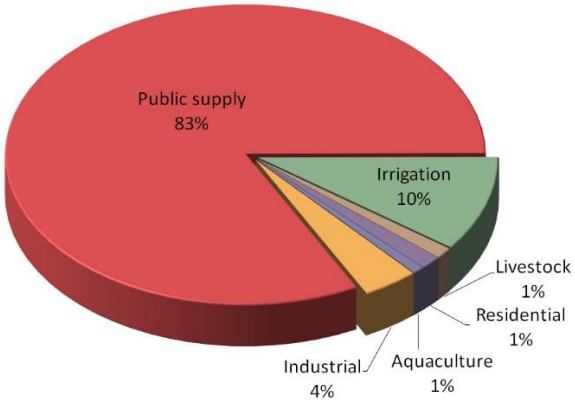
CALHOUN



Population	115,620
Pop served by public supply	109,438

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	22.47 89%	2.78 11%	25.25
Residential	0.44 100%	0.00 0%	0.44
Irrigation	0.00 0%	3.16 100%	3.16
Aquaculture	0.12 50%	0.12 50%	0.24
Livestock	0.15 42%	0.21 58%	0.36
Industrial	1.15 100%	0.00 0%	1.15
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	24.33 80%	6.27 20%	30.60



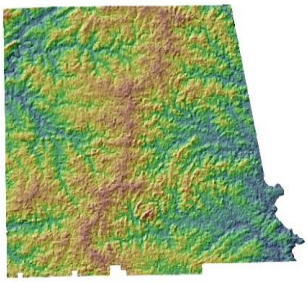
Withdrawals by Public Supplier, in MGD

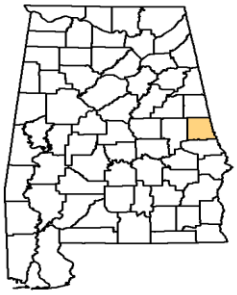
System Name	GW	SW	Total
Weaver Water System	0.52	0.00	0.52
Anniston WW&SB	15.28	0.74	16.02
Calhoun Co. WA	2.96	0.00	2.96
Jacksonville WW&SB	0.00	1.17	1.17
Oxford WW&SB	3.70	0.00	3.70
Piedmont WW&SB	0.00	0.87	0.87

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Beverage Man	0.43	0.00	0.43
Pulp, Paper, & Paperboard Mills	0.50	0.00	0.50
Foundries	0.22	0.00	0.22

CHAMBERS





Population	34,123
Pop served by public supply	25,783

Withdrawals, in Million Gallons per Day

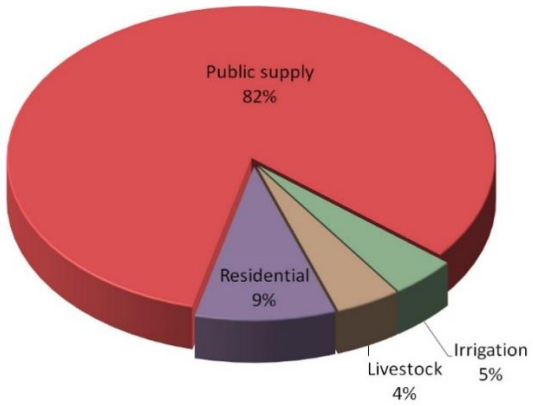
Category	GW	SW	Totals
Public Supply	0.00 0%	4.20 100%	4.20
Residential	0.48 100%	0.00 0%	0.48
Irrigation	0.07 30%	0.16 70%	0.22
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.09 41%	0.13 59%	0.22
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.63 12%	4.49 88%	5.12

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Lafayette	0.00	0.65	0.65
Chattahoochee Valley WSD	0.00	3.56	3.56

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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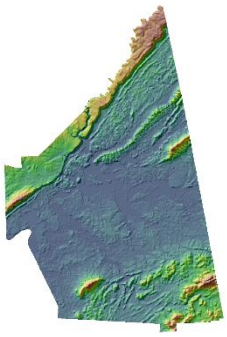
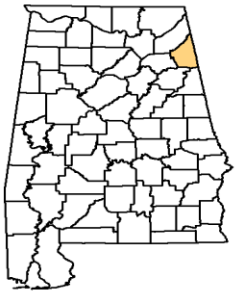




Population	25,859
Pop served by public supply	17,746

Withdrawals, in Million Gallons per Day

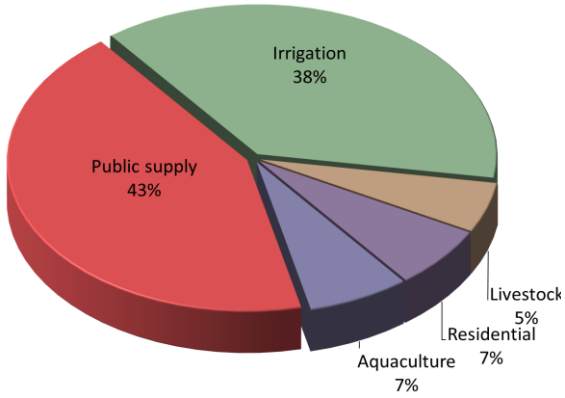
Category	GW	SW	Totals
Public Supply	2.43 76%	0.77 24%	3.21
Residential	0.49 100%	0.00 0%	0.49
Irrigation	0.00 0%	2.83 100%	2.83
Aquaculture	0.51 100%	0.00 0%	0.51
Livestock	0.16 40%	0.24 60%	0.40
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.60 48%	3.84 52%	7.43

Withdrawals by Public Supplier, in MGD

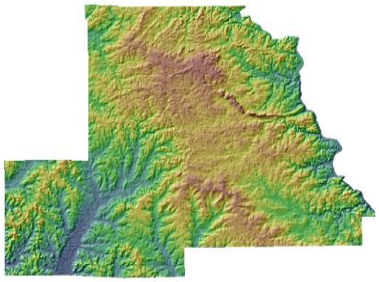
System Name	GW	SW	Total
Centre WW&SB	0.00	0.77	0.77
Cherokee Co. WA	1.26	0.00	1.26
Northeast Alabama WS&FPA	1.18	0.00	1.18

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



CHILTON



Population	43,943
Pop served by public supply	34,630

Withdrawals, in Million Gallons per Day

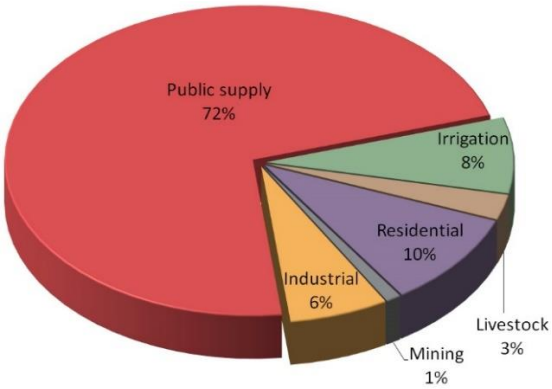
Category	GW	SW	Totals
Public Supply	2.51 57%	1.89 43%	4.40
Residential	0.60 100%	0.00 0%	0.60
Irrigation	0.33 67%	0.16 33%	0.48
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.07 44%	0.09 56%	0.16
Industrial	0.39 100%	0.00 0%	0.39
Mining	0.06 100%	0.00 0%	0.06
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.96 65%	2.14 35%	6.09

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Chilton WA	1.89	0.00	1.89
Clanton WW&SB	0.00	1.89	1.89
Thorsby Water Works Bd.	0.62	0.00	0.62

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Sawmills & Wood Preservation	0.39	0.00	0.39



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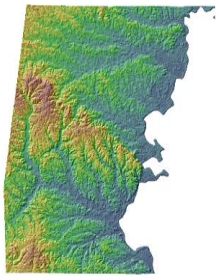


Population	13,170
Pop served by public supply	4,998

Withdrawals, in Million Gallons per Day

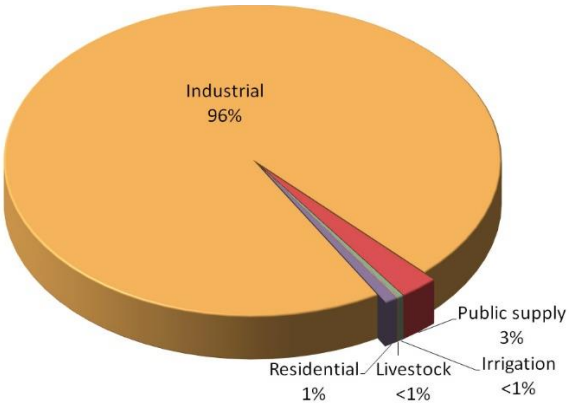
Category	GW	SW	Totals
Public Supply	1.21 100%	0.00 0%	1.21
Residential	0.41 100%	0.00 0%	0.41
Irrigation	0.00 1%	0.16 99%	0.16
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.03 50%	0.03 50%	0.06
Industrial	0.00 0%	46.61 100%	46.61
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.65 3%	46.80 97%	48.45

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Town of Butler	0.30	0.00	0.30
Gilbertown Utilities Bd.	0.43	0.00	0.43
North Choctaw WA	0.29	0.00	0.29
Pennington Utilities Bd.	0.18	0.00	0.18

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	46.61	46.61

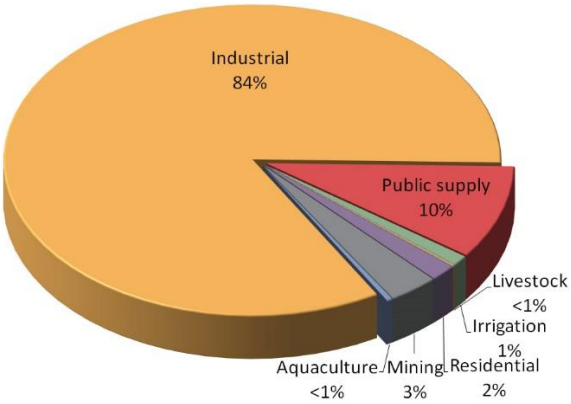


CLARKE

Population	24,675
Pop served by public supply	17,759

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	2.50 97%	0.08 3%	2.58
Residential	0.45 100%	0.00 0%	0.45
Irrigation	0.02 8%	0.26 92%	0.28
Aquaculture	0.00 0%	0.10 100%	0.10
Livestock	0.02 33%	0.04 67%	0.06
Industrial	0.00 0%	22.14 100%	22.14
Mining	0.86 100%	0.00 0%	0.86
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.85 15%	22.62 85%	26.47



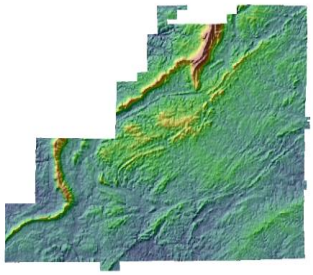
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Coffeeville Utilities	0.15	0.00	0.15
Jackson Water and Sewer Bd.	1.17	0.08	1.25
Old Line WA	0.37	0.00	0.37
Utilities Bd. of Fulton	0.12	0.00	0.12
Utilities Bd. of Grove Hill	0.69	0.00	0.69

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	21.73	21.73
Lum & Otr Const Matls Wholeslrs	0.00	0.41	0.41

CLAY



Population	13,555
Pop served by public supply	5,970

Withdrawals, in Million Gallons per Day

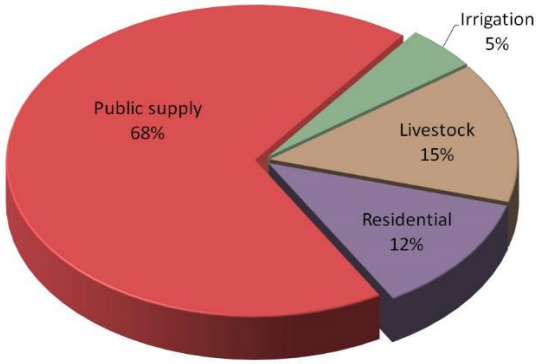
Category	GW	SW	Totals
Public Supply	0.00 0%	1.78 100%	1.78
Residential	0.32 100%	0.00 0%	0.32
Irrigation	0.00 0%	0.12 100%	0.12
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.17 45%	0.21 55%	0.38
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.49 19%	2.11 81%	2.60

Withdrawals by Public Supplier, in MGD

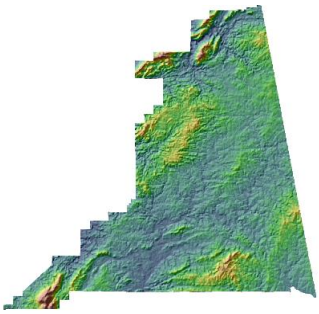
System Name	GW	SW	Total
Clay Co. WA	0.00	1.78	1.78

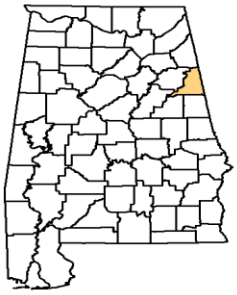
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



CLEBURNE





Population	15,018
Pop served by public supply	6,613

Withdrawals, in Million Gallons per Day

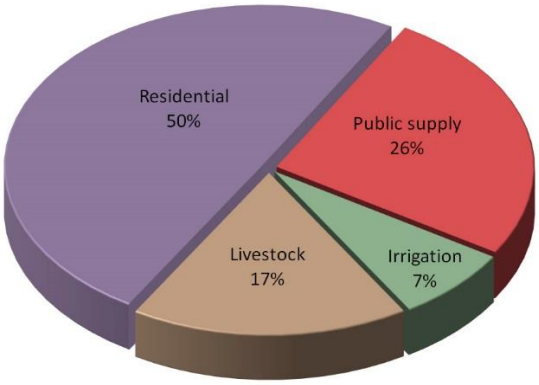
Category	GW	SW	Totals
Public Supply	0.00 0%	0.49 100%	0.49
Residential	0.94 100%	0.00 0%	0.94
Irrigation	0.00 0%	0.14 100%	0.14
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.15 45%	0.18 55%	0.33
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.09 58%	0.81 42%	1.90

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Heflin Water Works	0.00	0.49	0.49

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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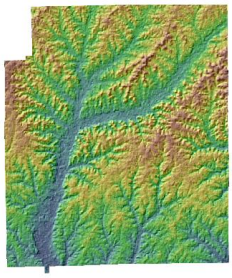


Population	51,211
Pop served by public supply	42,461

Withdrawals, in Million Gallons per Day

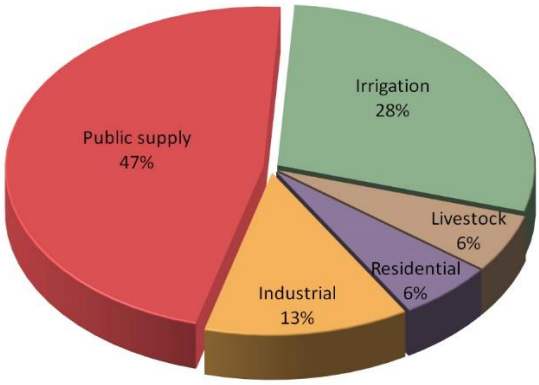
Category	GW	SW	Totals
Public Supply	6.35 100%	0.00 0%	6.35
Residential	0.80 100%	0.00 0%	0.80
Irrigation	0.68 18%	3.20 82%	3.89
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.34 43%	0.45 57%	0.79
Industrial	1.74 100%	0.00 0%	1.74
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	9.91 73%	3.65 27%	13.56

Withdrawals by Public Supplier, in MGD

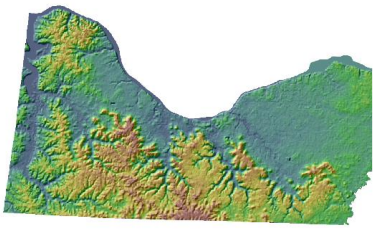
System Name	GW	SW	Total
Jack Water System, Inc.	0.10	0.00	0.10
Kinston Water System	0.01	0.00	0.01
Coffee Co. WA	0.38	0.00	0.38
Elba Water and Electric Bd.	0.61	0.00	0.61
Enterprise Water Works Bd.	4.80	0.00	4.80
New Brockton Water & Sewer Bd.	0.22	0.00	0.22
Opp Utilities Bd.	0.21	0.00	0.21

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Animal Slaughtering & Process	1.74	0.00	1.74



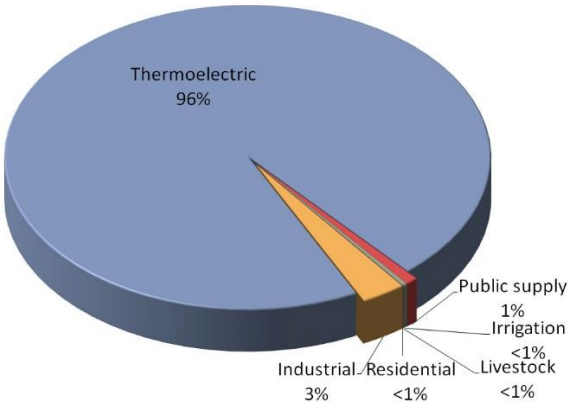
COLBERT



Population	54,354
Pop served by public supply	50,414

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	0.60 7%	7.67 93%	8.27
Residential	0.35 100%	0.00 0%	0.35
Irrigation	0.79 32%	1.67 68%	2.46
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.16 43%	0.21 57%	0.37
Industrial	0.00 0%	29.70 100%	29.70
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	963.99 100%	963.99
Totals	1.90 0%	1,003.23 100%	1,005.13



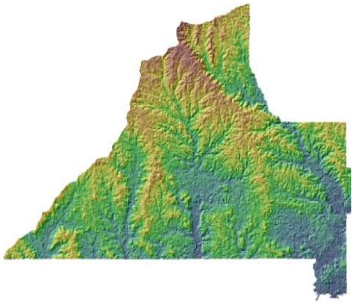
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Hawk Pride Mountain Water System	0.38	0.00	0.38
Sheffield Utilities	0.00	1.74	1.74
Cherokee WW&SB	0.00	0.25	0.25
Colbert Co. Rural Water	0.00	0.72	0.72
Leighton Water & Sewer Bd.	0.22	0.00	0.22
Muscle Shoals Utilities Bd.	0.00	2.98	2.98
Tuscumbia - Water Dept.	0.00	1.97	1.97

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	963.99	963.99
Pulp, Paper, & Paperboard Mills	0.00	6.59	6.59
Basic Chemical Manufact	0.00	8.50	8.50
Pest, Fert, & Otr Ag Chem Man	0.00	12.56	12.56
Arch & Struct Metals Man	0.00	2.05	2.05

CONECUH



Population	12,672
Pop served by public supply	6,988

Withdrawals, in Million Gallons per Day

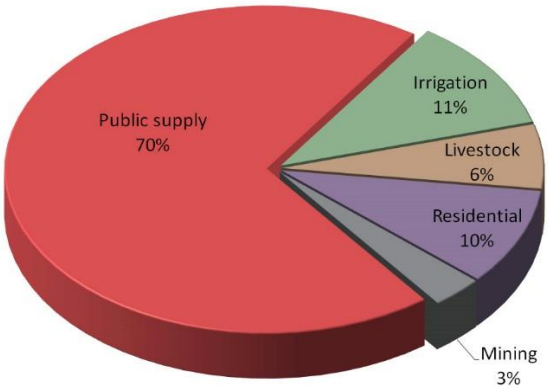
Category	GW	SW	Totals
Public Supply	1.32 100%	0.00 0%	1.32
Residential	0.18 100%	0.00 0%	0.18
Irrigation	0.05 26%	0.16 74%	0.21
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.05 42%	0.07 58%	0.12
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.04 67%	0.02 33%	0.06
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.64 87%	0.25 13%	1.89

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Castleberry	0.09	0.00	0.09
City of Evergreen	0.81	0.00	0.81
Fairview Water System	0.07	0.00	0.07
Hamden Ridge P/A, Inc.	0.14	0.00	0.14
Repton	0.04	0.00	0.04
Owassa/Brownville WA	0.17	0.00	0.17

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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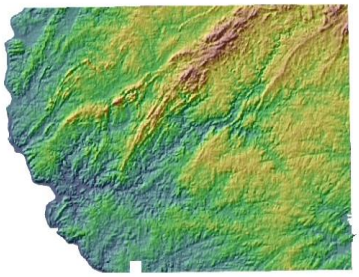


Population	10,724
Pop served by public supply	5,839

Withdrawals, in Million Gallons per Day

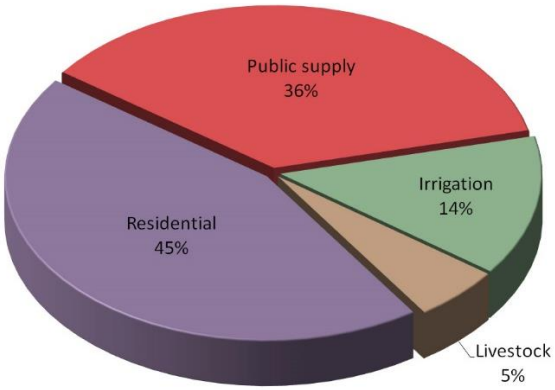
Category	GW	SW	Totals
Public Supply	0.27 100%	0.00 0%	0.27
Residential	0.33 100%	0.00 0%	0.33
Irrigation	0.00 5%	0.10 95%	0.10
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.02 50%	0.02 50%	0.04
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.62 84%	0.12 16%	0.74

Withdrawals by Public Supplier, in MGD

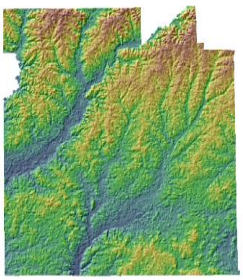
System Name	GW	SW	Total
Stewartville WA	0.27	0.00	0.27

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



COVINGTON



Population	37,835
Pop served by public supply	24,183

Withdrawals, in Million Gallons per Day

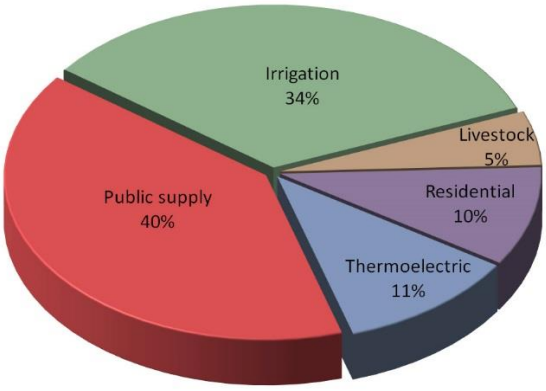
Category	GW	SW	Totals
Public Supply	4.09 100%	0.00 0%	4.09
Residential	1.01 100%	0.00 0%	1.01
Irrigation	1.27 37%	2.20 63%	3.47
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.23 42%	0.32 58%	0.55
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	1.15 100%	1.15
Totals	6.60 64%	3.67 36%	10.26

Withdrawals by Public Supplier, in MGD

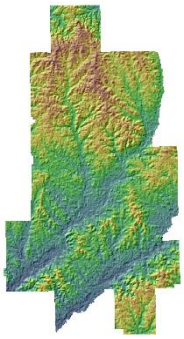
System Name	GW	SW	Total
Lockhart	0.09	0.00	0.09
Red Level Water Works	0.06	0.00	0.06
Town of River Falls	0.10	0.00	0.10
Covington Co. Water Dept.	1.09	0.00	1.09
Florala WW&SB	0.30	0.00	0.30
Opp Utilities Bd.	0.56	0.00	0.56
Utility Bd. of Andalusia	1.90	0.00	1.90

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	1.15	1.15



CRENSHAW



Population	13,963
Pop served by public supply	10,616

Withdrawals, in Million Gallons per Day

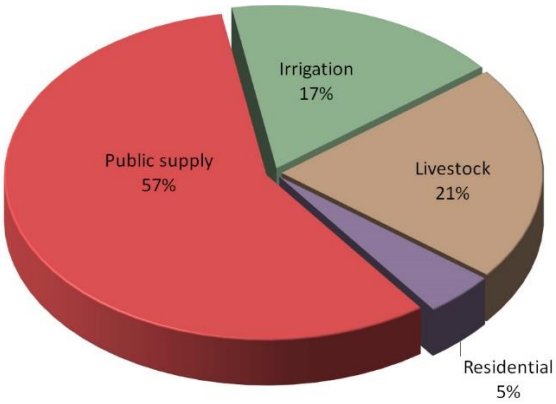
Category	GW	SW	Totals
Public Supply	1.94 100%	0.00 0%	1.94
Residential	0.15 100%	0.00 0%	0.15
Irrigation	0.00 1%	0.58 99%	0.58
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.30 42%	0.42 58%	0.72
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.39 71%	1.00 29%	3.39

Withdrawals by Public Supplier, in MGD

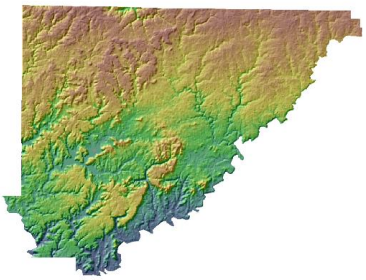
System Name	GW	SW	Total
Brantley Water Works	0.10	0.00	0.10
Dozier Water Works	0.02	0.00	0.02
Rutledge	0.06	0.00	0.06
Sellers Station Water System, Inc.	0.09	0.00	0.09
Luverne WW&SB	0.48	0.00	0.48
Quint-Mar WA	0.57	0.00	0.57
South Crenshaw Co. WA	0.61	0.00	0.61

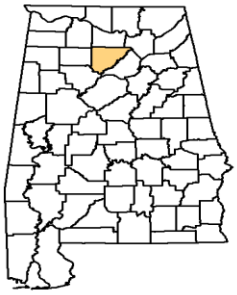
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



CULLMAN

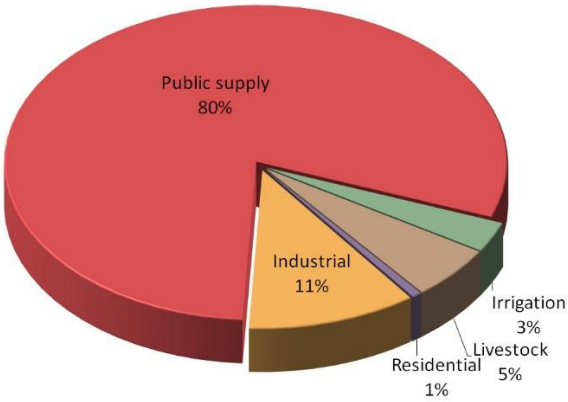




Population	82,005
Pop served by public supply	79,424

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	0.31 1%	22.98 99%	23.29
Residential	0.19 100%	0.00 0%	0.19
Irrigation	0.28 31%	0.63 69%	0.91
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.82 51%	0.79 49%	1.61
Industrial	0.73 23%	2.43 77%	3.17
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.33 8%	26.83 92%	29.16



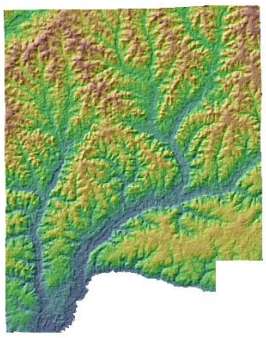
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Birmingham WWB	0.00	11.28	11.28
Cullman Utilities Bd.	0.00	11.70	11.70
Hanceville Water and Sewer Bd.	0.31	0.00	0.31

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Animal Food Man	0.00	0.19	0.19
Animal Slaughtering & Process	0.00	1.23	1.23
Veneer, Ply, & Eng Wood Man	0.73	1.01	1.75

DALE



Population	49,565
Pop served by public supply	40,468

Withdrawals, in Million Gallons per Day

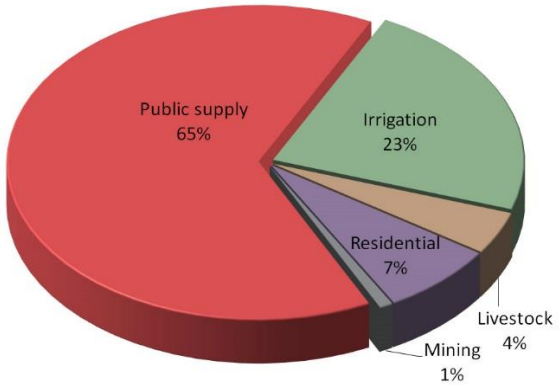
Category	GW	SW	Totals
Public Supply	5.90 100%	0.00 0%	5.90
Residential	0.68 100%	0.00 0%	0.68
Irrigation	0.33 16%	1.76 84%	2.09
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.17 43%	0.23 58%	0.40
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.05 63%	0.03 38%	0.08
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	7.13 78%	2.02 22%	9.14

Withdrawals by Public Supplier, in MGD

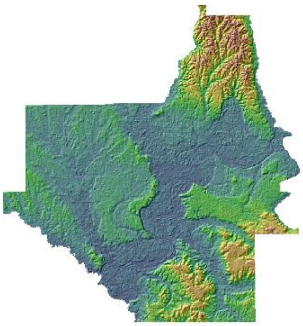
System Name	GW	SW	Total
American Water Enterprises, Inc.	0.80	0.00	0.80
City of Level Plains	0.27	0.00	0.27
Daleville	0.49	0.00	0.49
Dothan Water System	1.15	0.00	1.15
Midland City	0.26	0.00	0.26
Pinckard	0.11	0.00	0.11
Ariton Water Dept.	0.09	0.00	0.09
Dale Co. WA	0.51	0.00	0.51
Newton Water and Sewer Bd.	0.17	0.00	0.17
Ozark Utilities Bd.	2.04	0.00	2.04

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



DALLAS



Population	41,131
Pop served by public supply	31,711

Withdrawals, in Million Gallons per Day

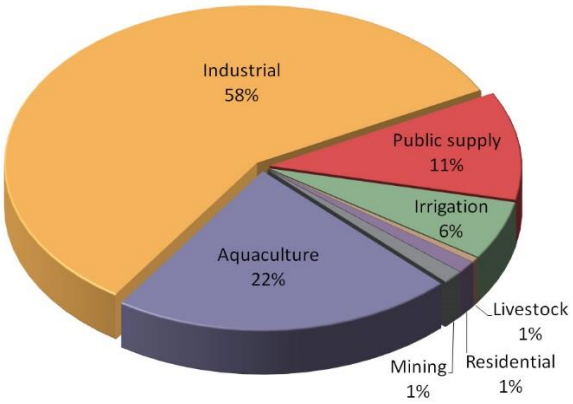
Category	GW	SW	Totals
Public Supply	5.91 100%	0.00 0%	5.91
Residential	0.66 100%	0.00 0%	0.66
Irrigation	0.69 21%	2.53 79%	3.22
Aquaculture	7.79 67%	3.90 33%	11.69
Livestock	0.10 38%	0.16 62%	0.26
Industrial	0.24 1%	30.66 99%	30.90
Mining	0.50 69%	0.22 31%	0.72
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	15.89 30%	37.47 70%	53.36

Withdrawals by Public Supplier, in MGD

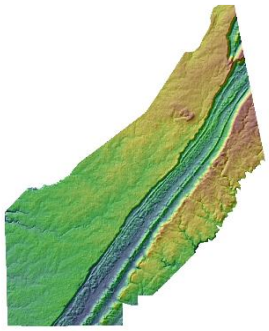
System Name	GW	SW	Total
Selma Water Works	3.44	0.00	3.44
Town of Orrville	0.02	0.00	0.02
Dallas Co. W&SA	0.76	0.00	0.76
North Dallas WA	1.16	0.00	1.16
South Dallas WA	0.32	0.00	0.32
West Dallas WA	0.21	0.00	0.21

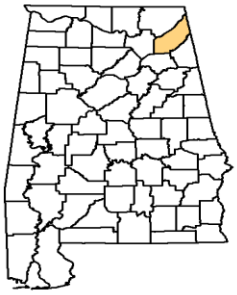
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.24	30.66	30.90



DEKALB





Population	71,130
Pop served by public supply	51,765

Withdrawals, in Million Gallons per Day

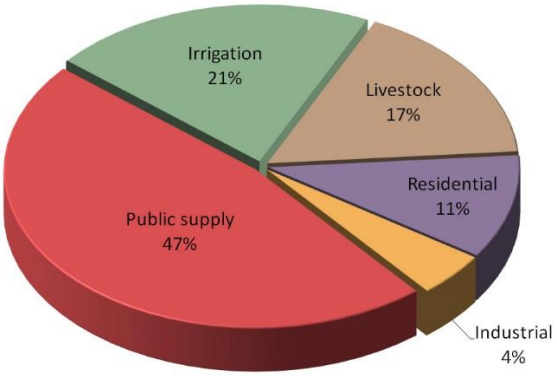
Category	GW	SW	Totals
Public Supply	0.33 6%	5.59 94%	5.92
Residential	1.34 100%	0.00 0%	1.34
Irrigation	0.49 19%	2.15 81%	2.65
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.99 47%	1.11 53%	2.10
Industrial	0.57 100%	0.00 0%	0.57
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.73 30%	8.85 70%	12.58

Withdrawals by Public Supplier, in MGD

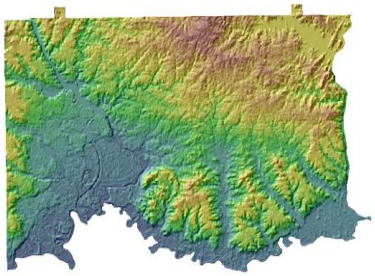
System Name	GW	SW	Total
Crossville Water Bd.	0.02	0.00	0.02
Fort Payne Water Works Bd.	0.00	5.59	5.59
Valley Head Water Works Bd.	0.30	0.00	0.30

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Poultry & Egg Prod	0.57	0.00	0.57



ELMORE



Population	81,468
Pop served by public supply	75,870

Withdrawals, in Million Gallons per Day

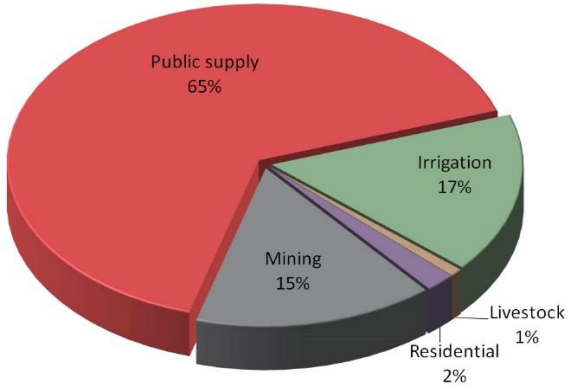
Category	GW	SW	Totals
Public Supply	2.68 22%	9.51 78%	12.20
Residential	0.36 100%	0.00 0%	0.36
Irrigation	0.61 20%	2.48 80%	3.09
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.07 47%	0.08 53%	0.15
Industrial	0.00 0%	0.00 0%	0.00
Mining	1.95 68%	0.92 32%	2.87
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.67 30%	12.99 70%	18.66

Withdrawals by Public Supplier, in MGD

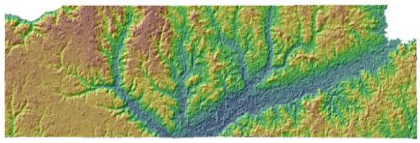
System Name	GW	SW	Total
Five Star Water Supply	0.00	5.29	5.29
Holtville Water System, Inc.	0.08	0.00	0.08
Millbrook Utility System	0.11	0.00	0.11
Tri-Community Water System	1.41	0.00	1.41
Central Elmore W&SA	0.00	4.22	4.22
Elmore W&SA	0.79	0.00	0.79
Prattville Water Works Bd.	0.29	0.00	0.29

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



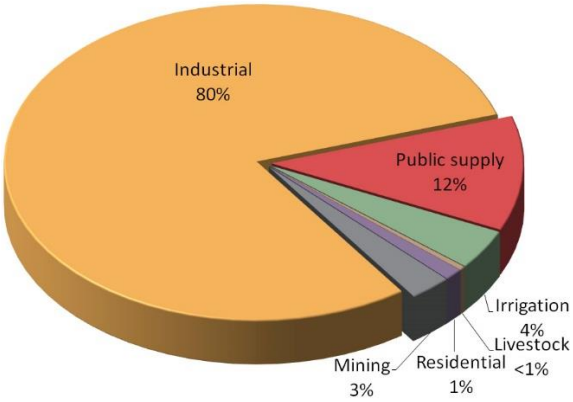
ESCAMBIA



Population	37,789
Pop served by public supply	30,839

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	5.01 100%	0.00 0%	5.01
Residential	0.51 100%	0.00 0%	0.51
Irrigation	1.00 57%	0.75 43%	1.75
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.07 41%	0.10 59%	0.17
Industrial	1.46 4%	32.54 96%	34.01
Mining	1.15 100%	0.00 0%	1.15
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	9.20 22%	33.39 78%	42.59



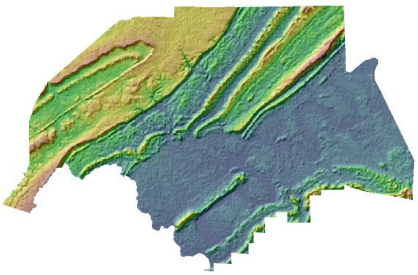
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
East Brewton	0.26	0.00	0.26
Flomaton	0.27	0.00	0.27
Freemanville Water System, Inc.	0.33	0.00	0.33
McCall Water System	0.81	0.00	0.81
Pollard	0.01	0.00	0.01
Riverview Water System	0.08	0.00	0.08
Atmore Utility Bd.	1.78	0.00	1.78
Brewton Water Works Bd.	1.25	0.00	1.25
Canoe W&FPA	0.03	0.00	0.03
Huxford W&FPA	0.06	0.00	0.06
Ridge Road WA	0.13	0.00	0.13

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Sawmills & Wood Preservation	1.08	0.00	1.08
Cnv Paper Product Man	0.20	32.54	32.74
Basic Chemical Manufact	0.19	0.00	0.19

ETOWAH



Population	103,057
Pop served by public supply	99,052

Withdrawals, in Million Gallons per Day

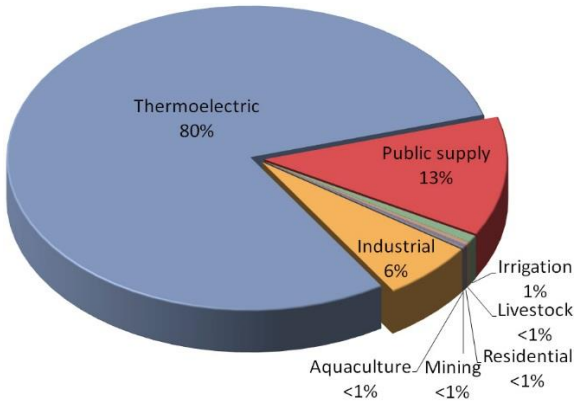
Category	GW	SW	Totals
Public Supply	4.12 24%	12.73 76%	16.85
Residential	0.26 100%	0.00 0%	0.26
Irrigation	0.00 0%	1.00 100%	1.01
Aquaculture	0.00 0%	0.01 100%	0.01
Livestock	0.21 45%	0.26 55%	0.47
Industrial	0.00 0%	8.30 100%	8.30
Mining	0.22 69%	0.10 31%	0.32
Thermoelectric	0.00 0%	105.52 100%	105.52
Totals	4.81 4%	127.91 96%	132.73

Withdrawals by Public Supplier, in MGD

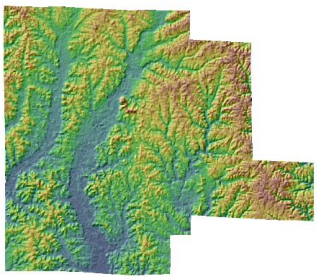
System Name	GW	SW	Total
Big Wills Water	0.23	0.00	0.23
Glencoe Water and Sewer Works	0.42	0.00	0.42
Walnut Grove Water Works	0.08	0.00	0.08
Attalla Water Works Bd.	1.28	0.00	1.28
Gadsden WW&SB	0.00	12.73	12.73
Hokes Bluff Water Bd.	0.75	0.00	0.75
Southside WW&SB	0.75	0.00	0.75
West Etowah Co. WA	0.60	0.00	0.60

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	105.52	105.52
Rubber Product Man	0.00	8.30	8.30



FAYETTE



Population	16,759
Pop served by public supply	9,743

Withdrawals, in Million Gallons per Day

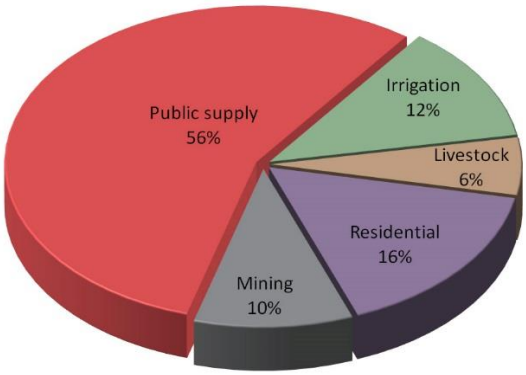
Category	GW	SW	Totals
Public Supply	0.05 3%	1.65 97%	1.70
Residential	0.49 100%	0.00 0%	0.49
Irrigation	0.00 0%	0.37 100%	0.37
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.08 44%	0.10 56%	0.18
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.31 100%	0.31
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.62 20%	2.42 80%	3.05

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Berry	0.00	0.40	0.40
Glen Allen Water System	0.05	0.00	0.05
Fayette Water Bd.	0.00	1.24	1.24

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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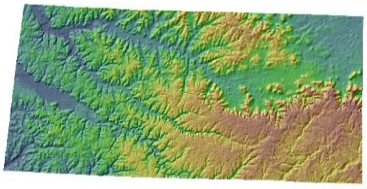
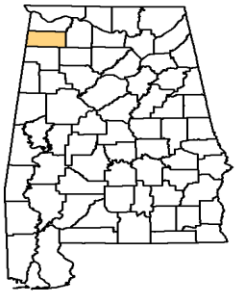




Population	31,696
Pop served by public supply	25,004

Withdrawals, in Million Gallons per Day

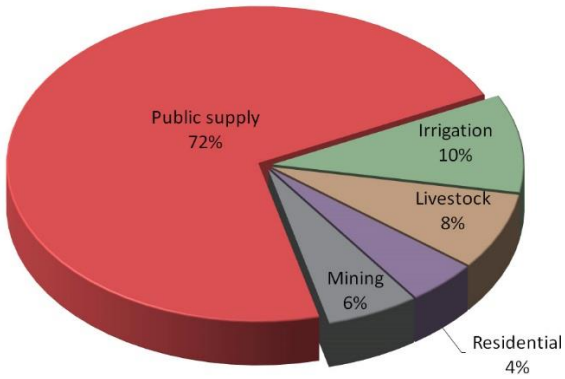
Category	GW	SW	Totals
Public Supply	1.05 18%	4.89 82%	5.94
Residential	0.37 100%	0.00 0%	0.37
Irrigation	0.00 0%	0.84 100%	0.84
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.28 43%	0.37 57%	0.65
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.34 69%	0.15 31%	0.49
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.05 25%	6.25 75%	8.29

Withdrawals by Public Supplier, in MGD

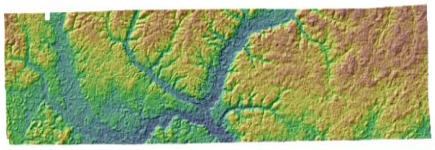
System Name	GW	SW	Total
Franklin Co. Water Service Auth.	0.00	1.16	1.16
Red Bay Water & Gas Bd.	0.79	0.00	0.79
Russellville Water & Sewer Bd.	0.26	3.73	3.99

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



GENEVA



Population	26,777
Pop served by public supply	15,541

Withdrawals, in Million Gallons per Day

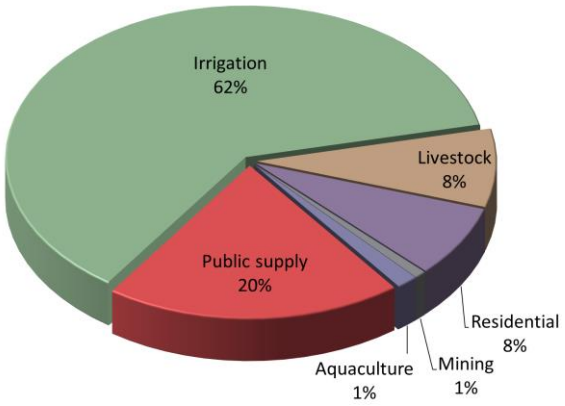
Category	GW	SW	Totals
Public Supply	1.77 100%	0.00 0%	1.77
Residential	0.68 100%	0.00 0%	0.68
Irrigation	2.52 46%	2.97 54%	5.50
Aquaculture	0.13 100%	0.00 0%	0.13
Livestock	0.32 43%	0.42 57%	0.74
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.05 71%	0.02 29%	0.07
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.47 62%	3.41 38%	8.89

Withdrawals by Public Supplier, in MGD

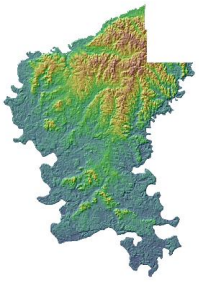
System Name	GW	SW	Total
Black Water Works	0.03	0.00	0.03
Geneva Water Works	0.48	0.00	0.48
Hartford	0.35	0.00	0.35
Samson (City of)	0.22	0.00	0.22
Slocomb Water Works	0.21	0.00	0.21
Town of Coffee Springs	0.02	0.00	0.02
Town of Taylor	0.31	0.00	0.31
Malvern Water Dept.	0.12	0.00	0.12
North Geneva Co. WA	0.04	0.00	0.04

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



GREENE



Population	8,479
Pop served by public supply	5,778

Withdrawals, in Million Gallons per Day

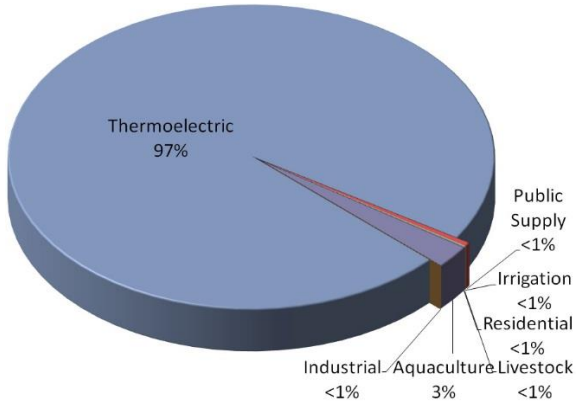
Category	GW	SW	Totals
Public Supply	1.39 100%	0.00 0%	1.39
Residential	0.16 100%	0.00 0%	0.16
Irrigation	0.33 72%	0.13 28%	0.45
Aquaculture	4.21 45%	5.09 55%	9.30
Livestock	0.05 42%	0.07 58%	0.12
Industrial	0.02 100%	0.00 0%	0.02
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	377.42 100%	377.42
Totals	6.16 2%	382.71 98%	388.87

Withdrawals by Public Supplier, in MGD

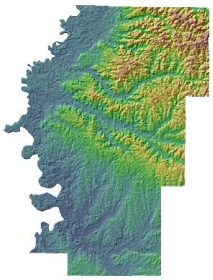
System Name	GW	SW	Total
Town of Forkland	0.07	0.00	0.07
Eutaw Water Dept.	0.93	0.00	0.93
Fosters-Ralph WA, Inc.	0.08	0.00	0.08
Greene Co. Sewer & Water	0.31	0.00	0.31

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.02	377.42	377.45



HALE



Population	15,068
Pop served by public supply	12,160

Withdrawals, in Million Gallons per Day

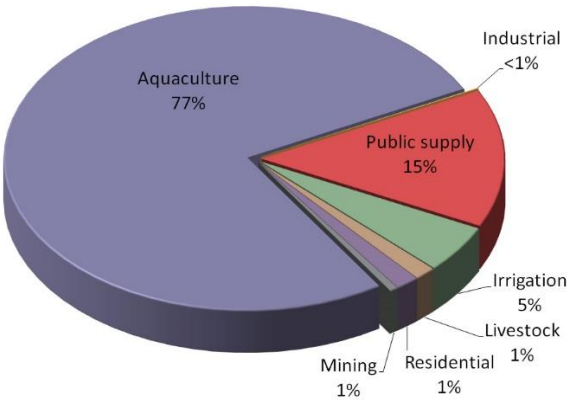
Category	GW	SW	Totals
Public Supply	3.10 100%	0.00 0%	3.10
Residential	0.33 100%	0.00 0%	0.33
Irrigation	0.92 85%	0.16 15%	1.08
Aquaculture	8.81 55%	7.34 45%	16.15
Livestock	0.14 47%	0.16 53%	0.30
Industrial	0.02 100%	0.00 0%	0.02
Mining	0.12 100%	0.00 0%	0.12
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	13.43 64%	7.66 36%	21.09

Withdrawals by Public Supplier, in MGD

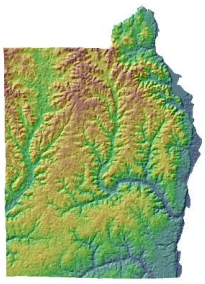
System Name	GW	SW	Total
Moundville Water Works	0.51	0.00	0.51
Greensboro Utilities Bd.	0.71	0.00	0.71
Hale Co. WA	1.88	0.00	1.88

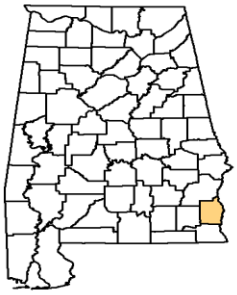
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Lum & Otr Const Matls Wholeslrs	0.02	0.00	0.02



HENRY





Population	17,221
Pop served by public supply	13,297

Withdrawals, in Million Gallons per Day

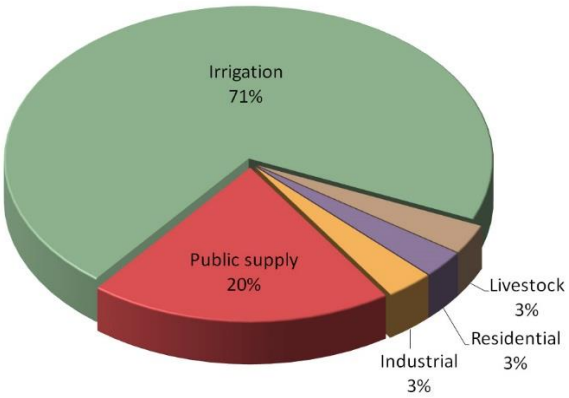
Category	GW	SW	Totals
Public Supply	1.66 100%	0.00 0%	1.66
Residential	0.24 100%	0.00 0%	0.24
Irrigation	1.43 24%	4.46 76%	5.89
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.10 38%	0.16 62%	0.26
Industrial	0.26 100%	0.00 0%	0.26
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.70 44%	4.62 56%	8.32

Withdrawals by Public Supplier, in MGD

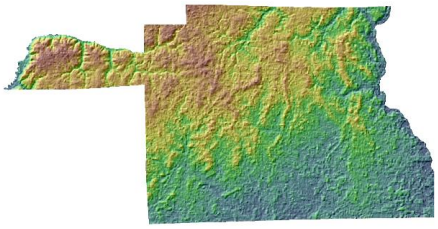
System Name	GW	SW	Total
Newville	0.06	0.00	0.06
Abbeville WW&SB	0.50	0.00	0.50
Headland Water Works Bd.	0.45	0.00	0.45
Henry Co. WA	0.66	0.00	0.66

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Groc & Rel Prod Wholeslrs	0.26	0.00	0.26



HOUSTON



Population	104,173
Pop served by public supply	84,623

Withdrawals, in Million Gallons per Day

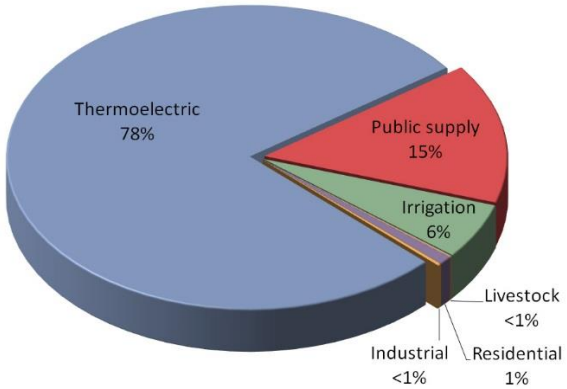
Category	GW	SW	Totals
Public Supply	18.96 100%	0.00 0%	18.96
Residential	1.11 100%	0.00 0%	1.11
Irrigation	5.17 68%	2.42 32%	7.59
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.10 40%	0.15 60%	0.25
Industrial	0.30 100%	0.00 0%	0.30
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	99.08 100%	99.08
Totals	25.64 20%	101.65 80%	127.29

Withdrawals by Public Supplier, in MGD

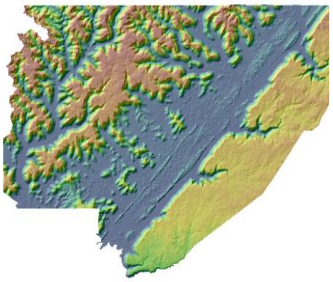
System Name	GW	SW	Total
Ashford Water Works	0.25	0.00	0.25
Cottonwood	0.22	0.00	0.22
Cowarts	0.33	0.00	0.33
Dothan Water System	17.22	0.00	17.22
Gordon Water Works	0.02	0.00	0.02
Kinsey	0.12	0.00	0.12
Town of Taylor	0.28	0.00	0.28
Webb Water System	0.12	0.00	0.12
Columbia WW&SB	0.10	0.00	0.10
Houston Co. WA	0.30	0.00	0.30

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.30	99.08	99.38



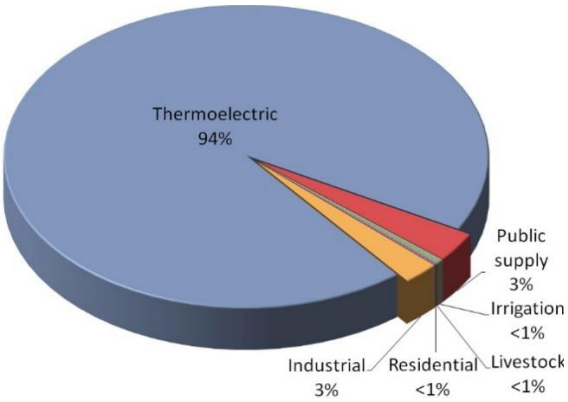
JACKSON



Population	52,419
Pop served by public supply	38,802

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	0.51 4%	11.31 96%	11.81
Residential	0.86 100%	0.00 0%	0.86
Irrigation	0.27 21%	1.02 79%	1.29
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.29 44%	0.37 56%	0.66
Industrial	0.00 0%	9.10 100%	9.10
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	352.22 100%	352.22
Totals	1.93 1%	374.01 99%	375.94



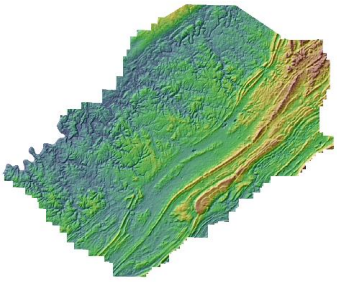
Withdrawals by Public Supplier, in MGD

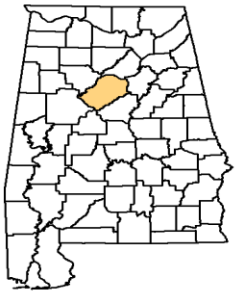
System Name	GW	SW	Total
Pisgah	0.12	0.00	0.12
Bridgeport Utilities Bd.	0.00	1.70	1.70
Dekalb-Jackson WSD	0.00	1.32	1.32
Northeast Alabama WS&FPA	0.00	0.79	0.79
Scottsboro Water Bd.	0.00	4.42	4.42
Section & Dutton Water Bds.	0.00	3.07	3.07
Stevenson Utilities Bd.	0.39	0.00	0.39

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	352.22	352.22
Pulp, Paper, & Paperboard Mills	0.00	9.10	9.10

JEFFERSON

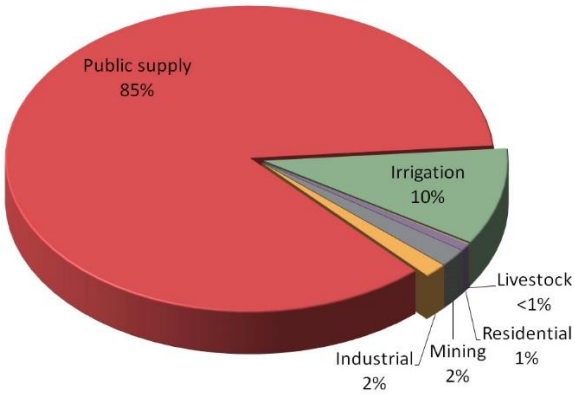




Population	660,367
Pop served by public supply	654,319

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	7.88 16%	41.09 84%	48.97
Residential	0.39 100%	0.00 0%	0.39
Irrigation	0.08 1%	5.82 99%	5.90
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.03 38%	0.05 63%	0.08
Industrial	0.87 100%	0.00 0%	0.87
Mining	0.62 57%	0.47 43%	1.09
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	9.87 17%	47.43 83%	57.30



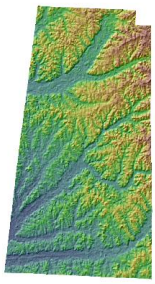
Withdrawals by Public Supplier, in MGD

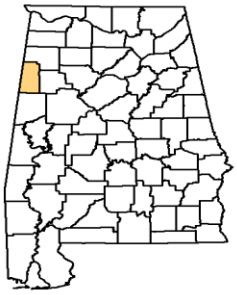
System Name	GW	SW	Total
Birmingham WWB	0.00	25.82	25.82
Irondale Water System	1.13	0.00	1.13
Governmental Utility Service Corp.	0.00	12.06	12.06
Leeds Water Works Bd.	1.68	0.00	1.68
Trussville Utilities Bd.	3.97	0.00	3.97
Warrior River WA	1.10	3.20	4.30

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Cement & Concrete Prod Man	0.16	0.00	0.16
Steel Prod Man from Pur Steel	0.71	0.00	0.71

LAMAR





Population	13,886
Pop served by public supply	8,668

Withdrawals, in Million Gallons per Day

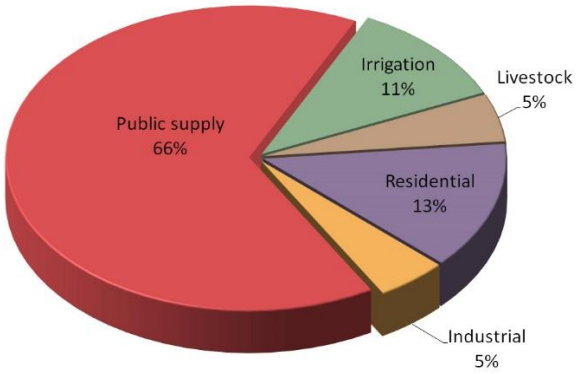
Category	GW	SW	Totals
Public Supply	1.42 100%	0.00 0%	1.42
Residential	0.29 100%	0.00 0%	0.29
Irrigation	0.00 0%	0.24 100%	0.24
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.05 45%	0.06 55%	0.11
Industrial	0.10 100%	0.00 0%	0.10
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.86 86%	0.30 14%	2.16

Withdrawals by Public Supplier, in MGD

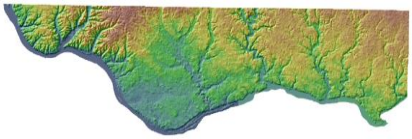
System Name	GW	SW	Total
Kennedy Water System	0.19	0.00	0.19
Millport	0.17	0.00	0.17
Sulligent	0.34	0.00	0.34
Vernon Water & Sewer	0.69	0.00	0.69
Detroit Water Dept.	0.03	0.00	0.03

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Sawmills & Wood Preservation	0.10	0.00	0.10



LAUDERDALE



Population	92,596
Pop served by public supply	77,817

Withdrawals, in Million Gallons per Day

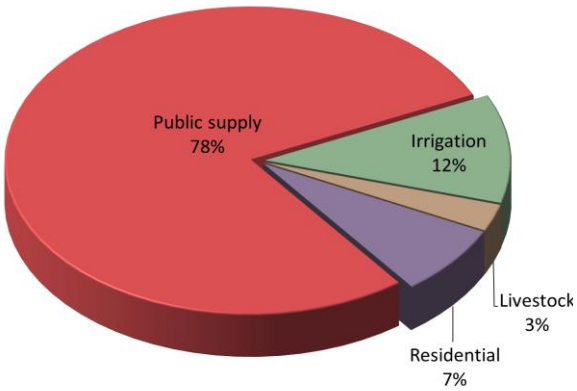
Category	GW	SW	Totals
Public Supply	1.85 15%	10.54 85%	12.39
Residential	1.17 100%	0.00 0%	1.17
Irrigation	0.56 31%	1.25 69%	1.81
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.19 42%	0.26 58%	0.45
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.77 24%	12.05 76%	15.82

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Greenhill Water System	0.21	0.00	0.21
Pluris Alabama, LLC	0.88	0.00	0.88
Florence W&SD	0.12	10.54	10.66
Rogersville Water & Sewer Bd.	0.64	0.00	0.64

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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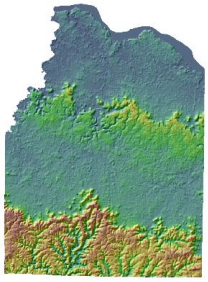
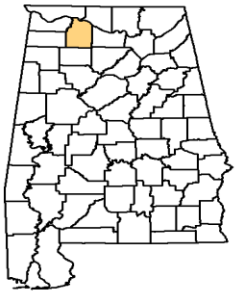




Population	33,115
Pop served by public supply	27,629

Withdrawals, in Million Gallons per Day

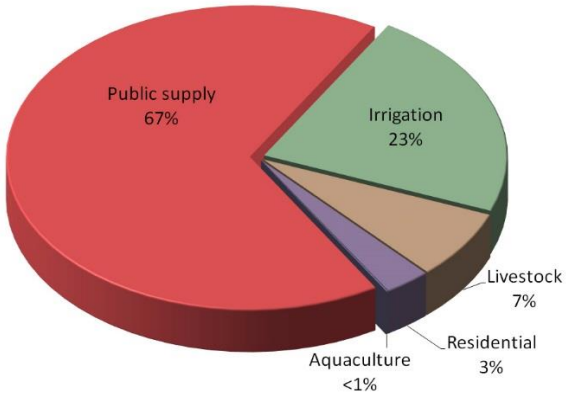
Category	GW	SW	Totals
Public Supply	0.00 0%	7.73 100%	7.73
Residential	0.35 100%	0.00 0%	0.35
Irrigation	0.05 2%	2.54 98%	2.59
Aquaculture	0.00 0%	0.01 100%	0.01
Livestock	0.36 43%	0.48 57%	0.84
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.76 7%	10.76 93%	11.52

Withdrawals by Public Supplier, in MGD

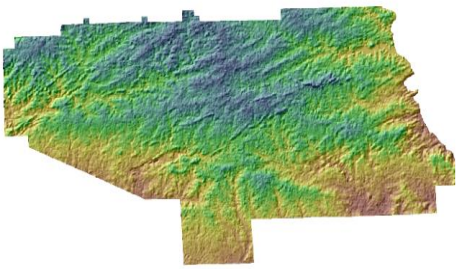
System Name	GW	SW	Total
Moulton Water Works Bd.	0.00	1.91	1.91
West Morgan East Lawrence W&SA	0.00	5.82	5.82

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



LEE



Population	156,993
Pop served by public supply	147,603

Withdrawals, in Million Gallons per Day

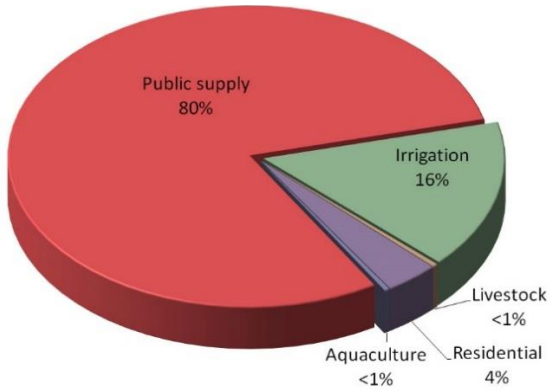
Category	GW	SW	Totals
Public Supply	2.84 18%	13.00 82%	15.84
Residential	0.72 100%	0.00 0%	0.72
Irrigation	0.29 9%	2.89 91%	3.18
Aquaculture	0.03 43%	0.04 57%	0.07
Livestock	0.03 43%	0.04 57%	0.07
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.91 20%	15.97 80%	19.88

Withdrawals by Public Supplier, in MGD

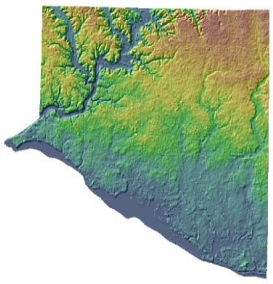
System Name	GW	SW	Total
Beauregard WA	1.00	0.00	1.00
Loachapoka WA	0.71	0.00	0.71
Opelika Water Works Bd.	0.00	6.60	6.60
Smiths W&SA	0.00	1.82	1.82
The Water Works Bd. of Auburn	1.13	4.58	5.71

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



LIMESTONE



Population	91,663
Pop served by public supply	78,965

Withdrawals, in Million Gallons per Day

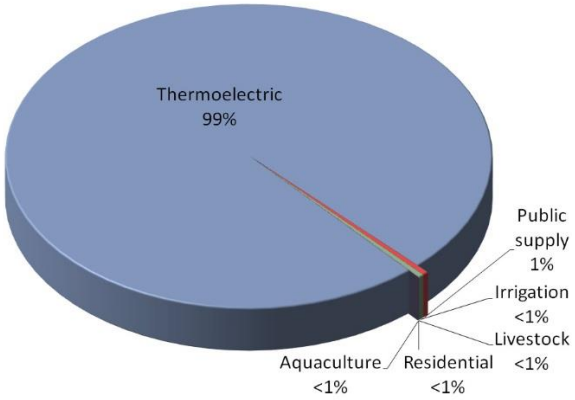
Category	GW	SW	Totals
Public Supply	3.86 33%	7.67 67%	11.53
Residential	0.99 100%	0.00 0%	0.99
Irrigation	2.48 25%	7.32 75%	9.80
Aquaculture	0.01 100%	0.00 0%	0.01
Livestock	0.21 44%	0.27 56%	0.48
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	2,850.13 100%	2,850.13
Totals	7.54 0%	2,865.39 100%	2,872.94

Withdrawals by Public Supplier, in MGD

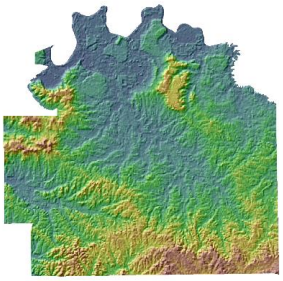
System Name	GW	SW	Total
Ardmore Water System	0.39	0.00	0.39
Athens Utilities	0.00	4.69	4.69
Madison Utilities	1.27	0.00	1.27
Swan Creek Community	0.04	0.00	0.04
Limestone Co. WA	2.15	2.98	5.13

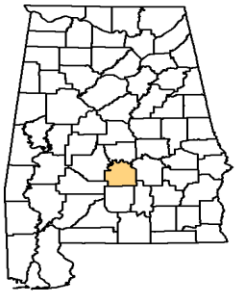
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	2,850.13	2,850.13



LOWNDES





Population	10,458
Pop served by public supply	9,713

Withdrawals, in Million Gallons per Day

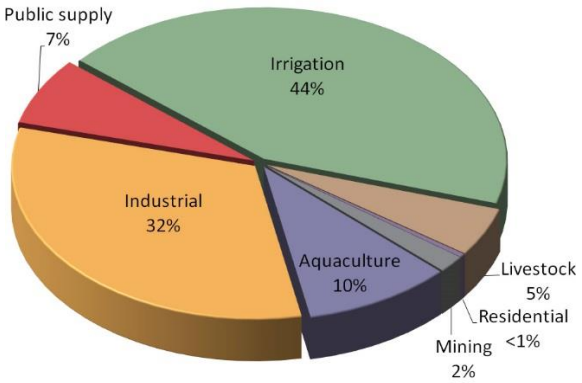
Category	GW	SW	Totals
Public Supply	0.95 100%	0.00 0%	0.95
Residential	0.05 100%	0.00 0%	0.05
Irrigation	0.00 0%	5.75 100%	5.75
Aquaculture	0.65 50%	0.65 50%	1.30
Livestock	0.27 40%	0.41 60%	0.68
Industrial	4.24 100%	0.00 0%	4.24
Mining	0.16 67%	0.08 33%	0.24
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	6.31 48%	6.89 52%	13.21

Withdrawals by Public Supplier, in MGD

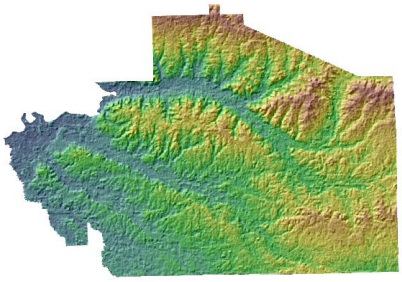
System Name	GW	SW	Total
Hayneville	0.33	0.00	0.33
Lowndesboro	0.11	0.00	0.11
White Hall	0.18	0.00	0.18
Lowndes Co. WA	0.19	0.00	0.19
Mosses WA	0.13	0.00	0.13

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Plastics Product Man	4.24	0.00	4.24



MACON



Population	19,105
Pop served by public supply	16,294

Withdrawals, in Million Gallons per Day

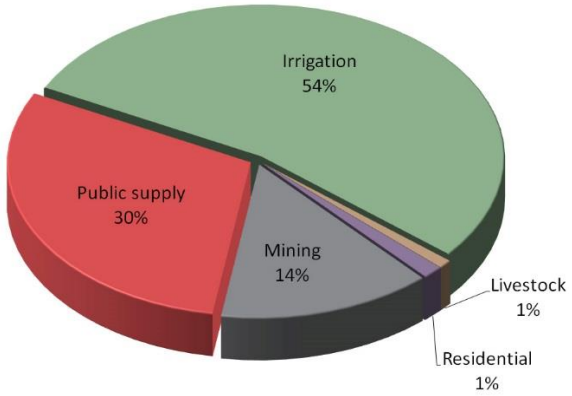
Category	GW	SW	Totals
Public Supply	1.37 41%	1.95 59%	3.32
Residential	0.15 100%	0.00 0%	0.15
Irrigation	2.40 40%	3.55 60%	5.94
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.04 40%	0.06 60%	0.10
Industrial	0.00 0%	0.00 0%	0.00
Mining	1.05 67%	0.52 33%	1.57
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.01 45%	6.07 55%	11.08

Withdrawals by Public Supplier, in MGD

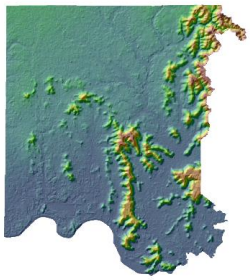
System Name	GW	SW	Total
Tuskegee Utilities	0.00	1.95	1.95
Macon Co. WA	0.45	0.00	0.45
Star Mindingall WA	0.93	0.00	0.93

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



MADISON



Population	353,089
Pop served by public supply	342,658

Withdrawals, in Million Gallons per Day

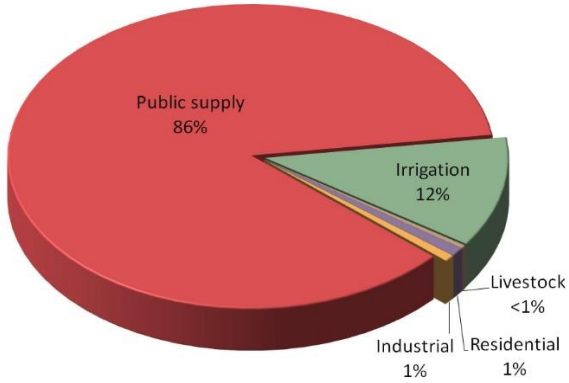
Category	GW	SW	Totals
Public Supply	29.01 43%	38.20 57%	67.20
Residential	0.72 100%	0.00 0%	0.72
Irrigation	5.02 55%	4.17 45%	9.19
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.12 43%	0.16 57%	0.28
Industrial	0.00 0%	0.55 100%	0.55
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	34.86 45%	43.08 55%	77.95

Withdrawals by Public Supplier, in MGD

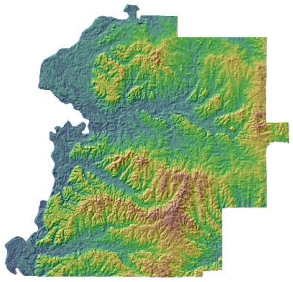
System Name	GW	SW	Total
Madison Utilities	5.81	0.00	5.81
Redstone Arsenal	0.00	3.55	3.55
Harvest-Monrovia WA	6.20	0.00	6.20
Huntsville Utilities Water Dept.	8.21	34.65	42.86
Madison Co. Water Dept.	7.54	0.00	7.54
Owens Cross Roads WA	1.24	0.00	1.24

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Otr Nonmetallic Min Prod Man	0.00	0.55	0.55



MARENGO



Population	20,028
Pop served by public supply	11,563

Withdrawals, in Million Gallons per Day

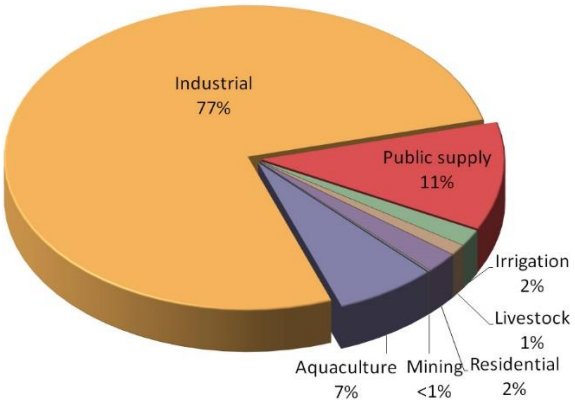
Category	GW	SW	Totals
Public Supply	2.77 100%	0.00 0%	2.77
Residential	0.53 100%	0.00 0%	0.53
Irrigation	0.17 40%	0.26 60%	0.43
Aquaculture	0.69 43%	0.92 57%	1.61
Livestock	0.11 41%	0.16 59%	0.27
Industrial	0.00 0%	18.44 100%	18.44
Mining	0.02 67%	0.01 33%	0.03
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	4.29 18%	19.79 82%	24.08

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Faunsdale	0.03	0.00	0.03
Myrtlewood Water System	0.23	0.00	0.23
Sweet Water Water System	0.03	0.00	0.03
Demopolis Water & Sewer Bd.	1.90	0.00	1.90
Linden Utilities Bd.	0.39	0.00	0.39
Thomaston Water & Gas Bd.	0.19	0.00	0.19

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	18.44	18.44



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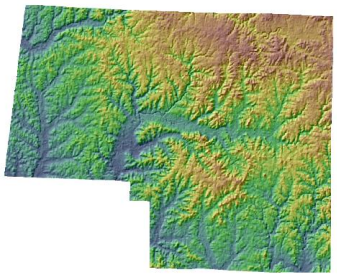
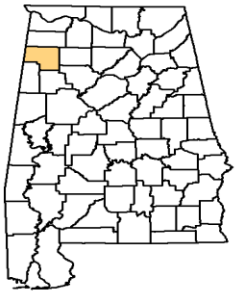




Population	30,168
Pop served by public supply	20,279

Withdrawals, in Million Gallons per Day

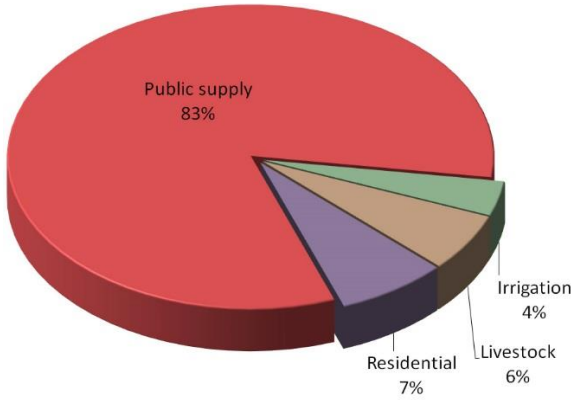
Category	GW	SW	Totals
Public Supply	0.76 13%	5.30 87%	6.06
Residential	0.54 100%	0.00 0%	0.54
Irrigation	0.11 42%	0.16 58%	0.27
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.19 42%	0.26 58%	0.45
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.60 22%	5.71 78%	7.32

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Brilliant	0.09	0.00	0.09
Guin Water Dept.	0.00	0.67	0.67
Hamilton WW&SB	0.00	1.36	1.36
Hodges Water Dept.	0.22	0.00	0.22
Twin WA	0.06	0.00	0.06
Upper Bear Creek WS&FPD	0.00	2.85	2.85
Winfield WW&SB	0.39	0.42	0.81

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



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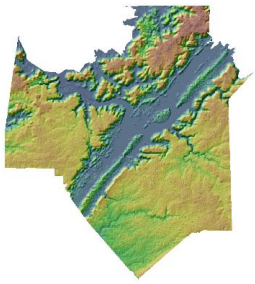
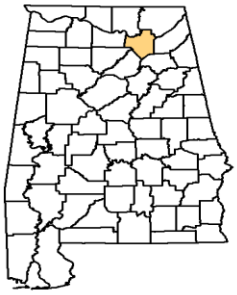




Population	94,725
Pop served by public supply	88,680

Withdrawals, in Million Gallons per Day

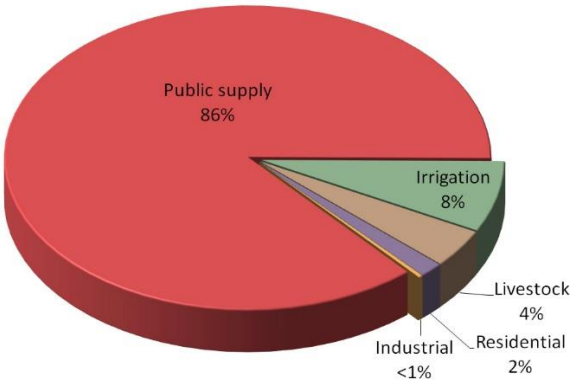
Category	GW	SW	Totals
Public Supply	3.31 14%	20.45 86%	23.76
Residential	0.43 100%	0.00 0%	0.43
Irrigation	0.79 38%	1.30 62%	2.08
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.56 50%	0.56 50%	1.12
Industrial	0.08 100%	0.00 0%	0.08
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.17 19%	22.31 81%	27.48

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
North Marshall Utilities	0.00	1.51	1.51
Albertville Municipal Utilities Bd.	0.00	10.41	10.41
Arab Water Works Bd.	0.31	4.59	4.90
Douglas WA	2.36	0.00	2.36
Guntersville WW&SB	0.64	2.76	3.40
Northeast Alabama WS&FPA	0.00	1.19	1.19

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Grain & Oilseed Milling	0.08	0.00	0.08

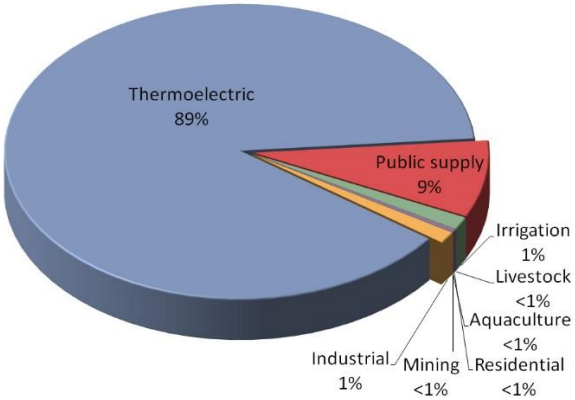


MOBILE

Population	415,395
Pop served by public supply	377,074

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	13.49 20%	52.64 80%	66.13
Residential	2.72 100%	0.00 0%	2.72
Irrigation	8.67 79%	2.27 21%	10.94
Aquaculture	0.00 0%	0.01 100%	0.01
Livestock	0.10 43%	0.13 57%	0.23
Industrial	6.49 64%	3.61 36%	10.10
Mining	0.22 100%	0.00 0%	0.22
Thermoelectric	0.00 0%	693.70 100%	693.70
Totals	31.68 4%	752.37 96%	784.05



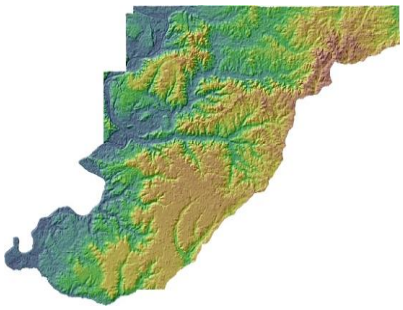
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Le Moyne Water System, Inc.	0.40	0.00	0.40
Mount Vernon	0.16	0.00	0.16
Saraland Water System	1.52	0.00	1.52
Satsuma	0.52	0.00	0.52
South Alabama Utilities	4.01	0.00	4.01
Bayou La Batre Utilities Bd.	0.59	0.00	0.59
Dauphin Island W&SA	0.57	0.00	0.57
Grand Bay Water Works Bd.	0.87	0.00	0.87
Kushla WD	0.47	0.00	0.47
MCB WA, Inc.	0.18	0.00	0.18
Mobile Bd. of W&S Comm.	0.00	52.64	52.64
Mobile Co. WS&FPA	3.03	0.00	3.03
St. Elmo - Irvington WA	0.81	0.00	0.81
Turnerville W&FPD	0.36	0.00	0.36

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	693.70	693.70
Utility System Construction	0.10	0.00	0.10
Seafood Product Prep & Pkg	0.00	0.00	0.00
Fabric Mills	1.30	0.00	1.30
Petro & Coal Products Man	0.57	0.00	0.57
Basic Chemical Manufact	1.99	0.00	1.99
Pest, Fert, & Otr Ag Chem Man	0.51	0.00	0.51
Paint, Coat, & Adhsv Man	1.75	0.00	1.75
Iron & Steel Mills & Ferro Man	0.26	3.61	3.87
Otr Support Activities for Trans	0.02	0.00	0.02

MONROE



Population	21,673
Pop served by public supply	15,775

Withdrawals, in Million Gallons per Day

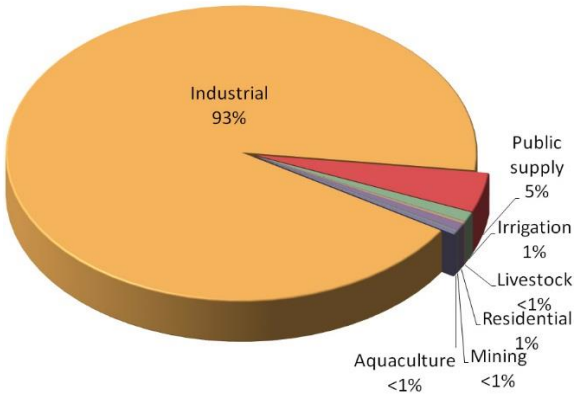
Category	GW	SW	Totals
Public Supply	2.30 100%	0.00 0%	2.30
Residential	0.38 100%	0.00 0%	0.38
Irrigation	0.41 72%	0.16 28%	0.57
Aquaculture	0.07 50%	0.07 50%	0.14
Livestock	0.06 40%	0.09 60%	0.15
Industrial	0.12 0%	49.31 100%	49.44
Mining	0.15 100%	0.00 0%	0.15
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.50 7%	49.63 93%	53.13

Withdrawals by Public Supplier, in MGD

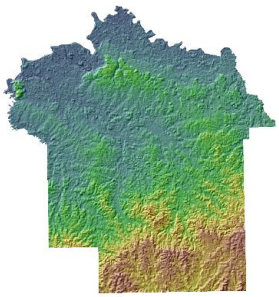
System Name	GW	SW	Total
Beatrice Water System	0.10	0.00	0.10
Eureka Water Service, Inc.	0.00	0.00	0.00
Excel Water System	0.30	0.00	0.30
Monroeville	1.00	0.00	1.00
Uriah Water System	0.26	0.00	0.26
Frisco City Water Works Bd.	0.26	0.00	0.26
Southwest Alabama WA	0.39	0.00	0.39

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Veneer, Ply, & Eng Wood Man	0.12	0.01	0.14
Pulp, Paper, & Paperboard Mills	0.00	49.30	49.30



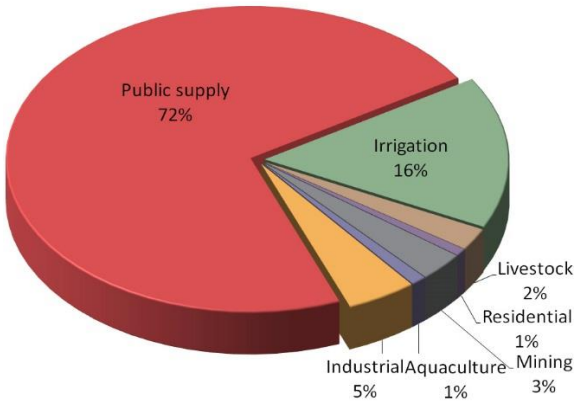
MONTGOMERY



Population	226,519
Pop served by public supply	221,784

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	13.19 47%	14.85 53%	28.04
Residential	0.30 100%	0.00 0%	0.30
Irrigation	4.26 68%	2.03 32%	6.29
Aquaculture	0.20 50%	0.20 50%	0.40
Livestock	0.37 41%	0.54 59%	0.91
Industrial	1.78 99%	0.03 1%	1.81
Mining	0.80 68%	0.38 32%	1.18
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	20.90 54%	18.02 46%	38.93



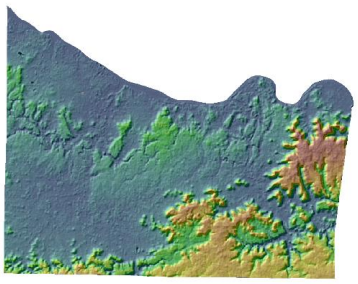
Withdrawals by Public Supplier, in MGD

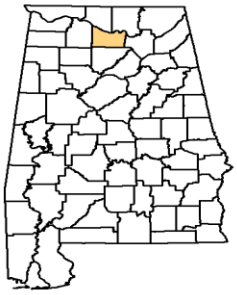
System Name	GW	SW	Total
Pintlala Water System, Inc.	0.46	0.00	0.46
Ramer Water Co., Inc.	0.11	0.00	0.11
Snowdoun Water System Inc.	0.21	0.00	0.21
Montgomery WW&SSB	12.13	14.85	26.99
Pilgrim Providence W&FPA	0.08	0.00	0.08
Pine Level WA	0.19	0.00	0.19

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Otr Food Man	1.30	0.00	1.30
Motor Vehicle Manufacturing	0.40	0.00	0.40
Chem & Allied Prod Wholeslrs	0.05	0.00	0.05
Natl Security & Internatl Affairs	0.02	0.03	0.05

MORGAN





Population	119,565
Pop served by public supply	115,544

Withdrawals, in Million Gallons per Day

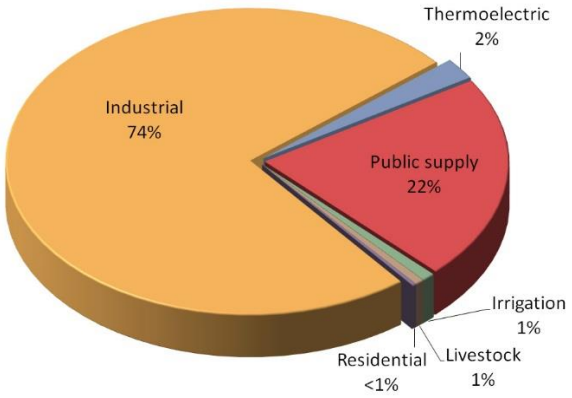
Category	GW	SW	Totals
Public Supply	0.00 0%	25.61 100%	25.61
Residential	0.32 100%	0.00 0%	0.32
Irrigation	0.16 15%	0.89 85%	1.04
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.33 45%	0.40 55%	0.73
Industrial	0.01 0%	88.33 100%	88.34
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	2.68 100%	2.68
Totals	0.81 1%	117.91 99%	118.72

Withdrawals by Public Supplier, in MGD

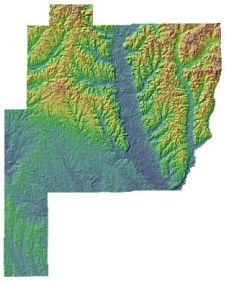
System Name	GW	SW	Total
Decatur Utilities	0.00	25.61	25.61

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	2.68	2.68
Basic Chemical Manufact	0.01	81.64	81.65
Plastics Product Man	0.00	6.69	6.69



PERRY



Population	9,652
Pop served by public supply	5,432

Withdrawals, in Million Gallons per Day

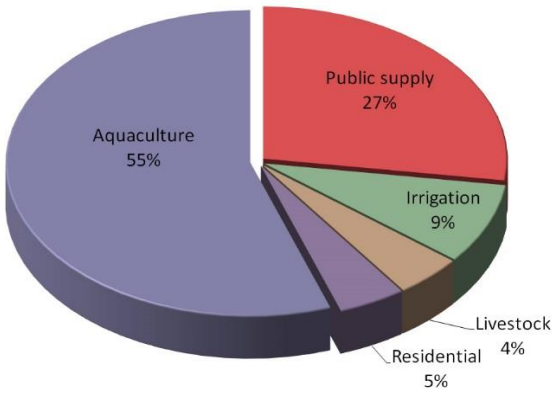
Category	GW	SW	Totals
Public Supply	2.02 100%	0.00 0%	2.02
Residential	0.33 100%	0.00 0%	0.33
Irrigation	0.54 84%	0.10 16%	0.63
Aquaculture	2.34 57%	1.76 43%	4.10
Livestock	0.14 42%	0.19 58%	0.33
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.37 72%	2.05 28%	7.42

Withdrawals by Public Supplier, in MGD

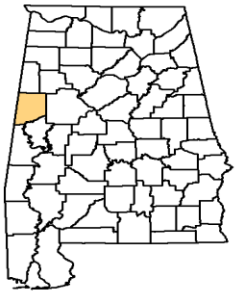
System Name	GW	SW	Total
Marion (City of) Water Dept.	0.61	0.00	0.61
Perry Co. WA	0.61	0.00	0.61
Uniontown Utilities Bd.	0.80	0.00	0.80

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



PICKENS



Population	20,864
Pop served by public supply	16,578

Withdrawals, in Million Gallons per Day

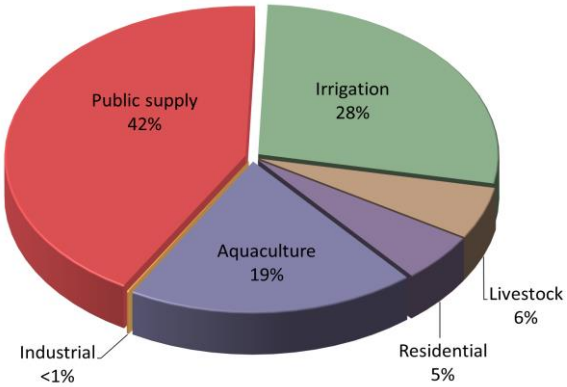
Category	GW	SW	Totals
Public Supply	3.01 100%	0.00 0%	3.01
Residential	0.37 100%	0.00 0%	0.37
Irrigation	0.00 0%	1.96 100%	1.96
Aquaculture	0.61 44%	0.77 56%	1.38
Livestock	0.20 50%	0.20 50%	0.40
Industrial	0.01 100%	0.00 0%	0.01
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	4.20 59%	2.93 41%	7.13

Withdrawals by Public Supplier, in MGD

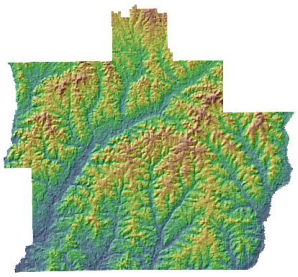
System Name	GW	SW	Total
Gordo	0.37	0.00	0.37
Aliceville Water and Sewer Bd.	1.14	0.00	1.14
Pickens Co. WA	1.19	0.00	1.19
Reform Water and Sewer Bd.	0.30	0.00	0.30

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Sawmills & Wood Preservation	0.01	0.00	0.01



PIKE



Population	33,046
Pop served by public supply	29,067

Withdrawals, in Million Gallons per Day

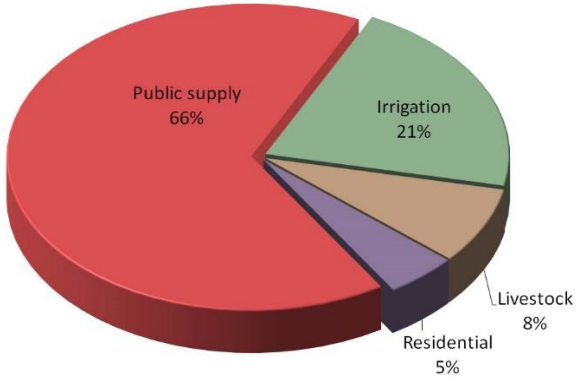
Category	GW	SW	Totals
Public Supply	4.58 100%	0.00 0%	4.58
Residential	0.33 100%	0.00 0%	0.33
Irrigation	0.41 28%	1.06 72%	1.47
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.23 41%	0.33 59%	0.56
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.56 80%	1.39 20%	6.94

Withdrawals by Public Supplier, in MGD

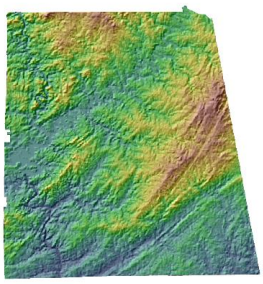
System Name	GW	SW	Total
Banks Water System	0.12	0.00	0.12
Brundidge	0.37	0.00	0.37
Goshen	0.05	0.00	0.05
Pike Co. WA	0.84	0.00	0.84
Troy Utility Dept.	3.20	0.00	3.20

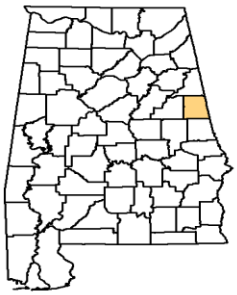
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



RANDOLPH





Population	22,696
Pop served by public supply	11,912

Withdrawals, in Million Gallons per Day

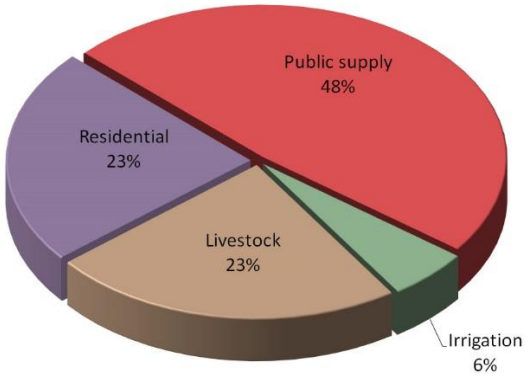
Category	GW	SW	Totals
Public Supply	0.00 0%	1.22 100%	1.22
Residential	0.58 100%	0.00 0%	0.58
Irrigation	0.03 19%	0.11 81%	0.14
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.28 47%	0.31 53%	0.59
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.88 35%	1.64 65%	2.53

Withdrawals by Public Supplier, in MGD

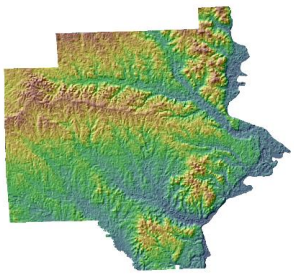
System Name	GW	SW	Total
Wedowee Gas, Water & Sewer	0.00	0.39	0.39
Roanoke Utilities Bd.	0.00	0.83	0.83

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



RUSSELL



Population	59,660
Pop served by public supply	55,434

Withdrawals, in Million Gallons per Day

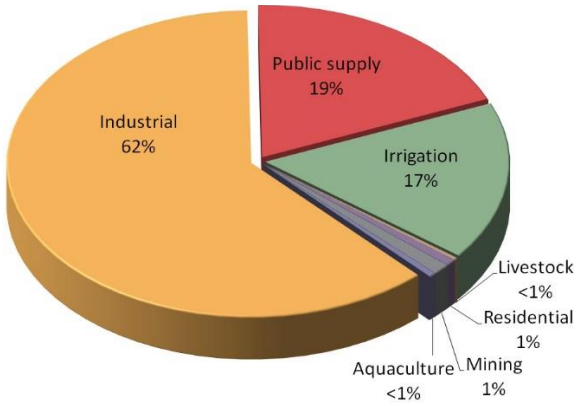
Category	GW	SW	Totals
Public Supply	1.59 19%	6.87 81%	8.46
Residential	0.30 100%	0.00 0%	0.30
Irrigation	0.00 0%	7.47 100%	7.47
Aquaculture	0.21 100%	0.00 0%	0.21
Livestock	0.05 42%	0.07 58%	0.12
Industrial	1.44 5%	26.00 95%	27.44
Mining	0.34 67%	0.17 33%	0.51
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.93 9%	40.58 91%	44.51

Withdrawals by Public Supplier, in MGD

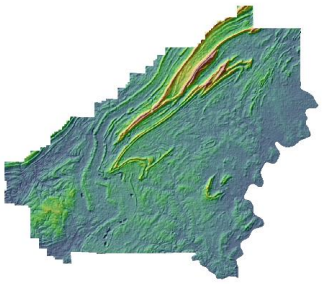
System Name	GW	SW	Total
Ft. Mitchell Water System, Inc.	0.90	0.00	0.90
Phenix City Utilities	0.00	6.87	6.87
Hurtsboro Water and Sewer Bd.	0.18	0.00	0.18
Russell Co. WA	0.51	0.00	0.51

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	1.44	26.00	27.44



SHELBY



Population	208,713
Pop served by public supply	199,698

Withdrawals, in Million Gallons per Day

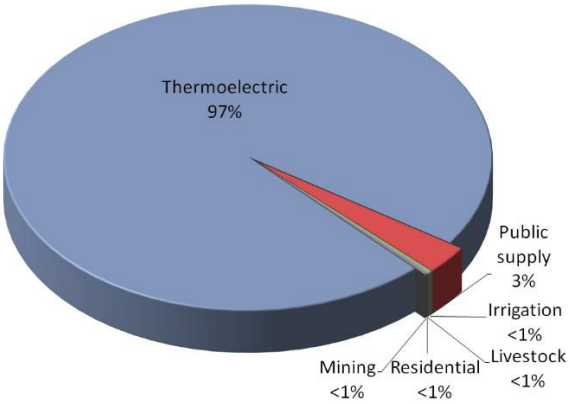
Category	GW	SW	Totals
Public Supply	11.92 84%	2.30 16%	14.22
Residential	0.44 100%	0.00 0%	0.44
Irrigation	0.00 0%	5.18 100%	5.18
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.04 40%	0.06 60%	0.10
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.32 67%	0.16 33%	0.48
Thermoelectric	0.00 0%	462.22 100%	462.22
Totals	12.72 3%	469.92 97%	482.64

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Calera	2.33	0.00	2.33
Pelham Water Works	2.71	0.00	2.71
Alabaster Water Bd.	2.59	0.00	2.59
Columbiana Water Works Bd.	1.77	0.00	1.77
Harpersville Water Bd.	0.27	0.00	0.27
Helena Utility Bd.	1.15	0.00	1.15
Montevallo WW&SB	0.62	0.00	0.62
Shelby Co. Water System	0.00	2.30	2.30
Vincent Water Dept.	0.26	0.00	0.26
Wilsonville Waterworks	0.22	0.00	0.22

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	462.22	462.22



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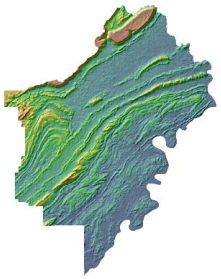


Population	87,074
Pop served by public supply	80,226

Withdrawals, in Million Gallons per Day

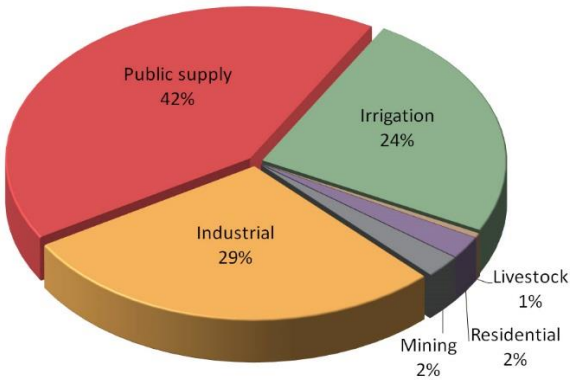
Category	GW	SW	Totals
Public Supply	6.35 71%	2.58 29%	8.93
Residential	0.51 100%	0.00 0%	0.51
Irrigation	0.34 20%	1.38 80%	1.72
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.12 41%	0.17 59%	0.29
Industrial	0.00 0%	6.10 100%	6.10
Mining	0.51 100%	0.00 0%	0.51
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	7.83 43%	10.23 57%	18.06

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Ashville Water and Sewer	0.21	0.32	0.53
Pell City	1.40	0.00	1.40
Coosa Valley WSD	0.00	2.26	2.26
Leeds Water Works Bd.	0.66	0.00	0.66
New London WA	0.66	0.00	0.66
Odenville Utilities Bd.	2.35	0.00	2.35
Ragland Water Works Bd.	0.44	0.00	0.44
Riverside Utility Bd.	0.03	0.00	0.03
Wattsville WA	0.60	0.00	0.60

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Cement & Concrete Prod Man	0.00	6.10	6.10



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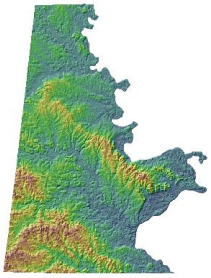
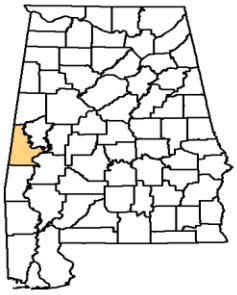
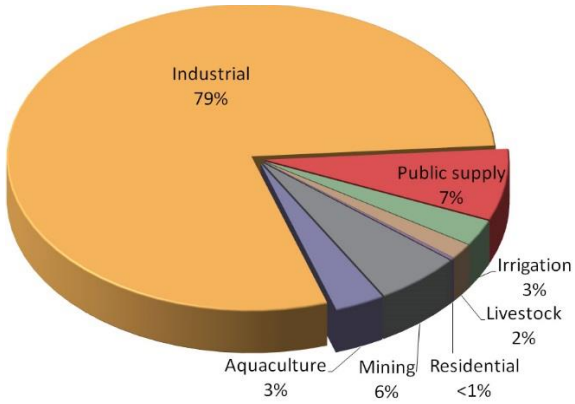




Population	13,103
Pop served by public supply	11,919

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	2.06 100%	0.00 0%	2.06
Residential	0.07 100%	0.00 0%	0.07
Irrigation	0.50 66%	0.26 34%	0.75
Aquaculture	0.40 44%	0.50 56%	0.90
Livestock	0.18 40%	0.27 60%	0.45
Industrial	0.00 0%	4.57 100%	4.57
Mining	1.06 68%	0.49 32%	1.55
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	4.26 41%	6.09 59%	10.35



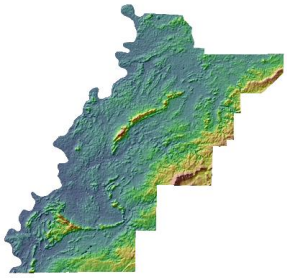
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
City of York	0.67	0.00	0.67
Livingston Utility Bd.	0.60	0.00	0.60
Sumter Co. WA	0.79	0.00	0.79

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Veneer, Ply, & Eng Wood Man	0.00	0.58	0.58
Lum & Otr Const Matls Wholeslrs	0.00	1.12	1.12
Pulp, Paper, & Paperboard Mills	0.00	2.88	2.88

TALLADEGA



Population	80,862
Pop served by public supply	60,455

Withdrawals, in Million Gallons per Day

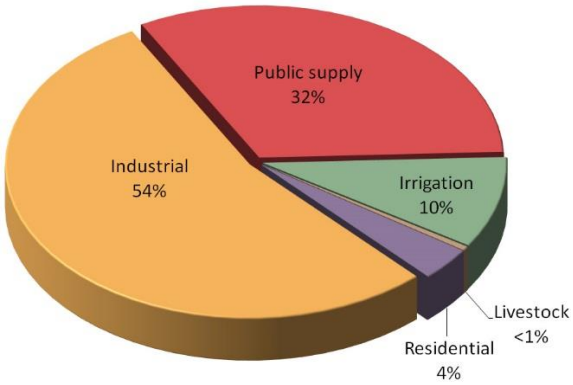
Category	GW	SW	Totals
Public Supply	9.39 59%	6.61 41%	16.00
Residential	1.75 100%	0.00 0%	1.75
Irrigation	0.61 13%	4.19 87%	4.80
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.10 45%	0.12 55%	0.22
Industrial	0.00 0%	26.59 100%	26.59
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	11.84 24%	37.51 76%	49.35

Withdrawals by Public Supplier, in MGD

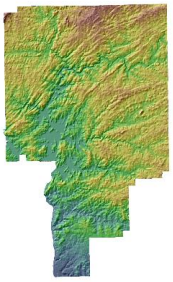
System Name	GW	SW	Total
Lincoln	1.39	0.00	1.39
Central Talladega Co. WD	0.30	0.00	0.30
Childersburg WS&GB	1.51	0.00	1.51
City of Talladega W&SD	2.90	0.52	3.42
Fayetteville WA	0.35	0.00	0.35
Munford WA, Inc.	0.31	0.00	0.31
Sycamore W&SA	0.18	0.00	0.18
Talladega/Shelby WTP	0.00	5.14	5.14
Utilities Bd. of Sylacauga	2.10	0.95	3.05
Water Works, Inc.	0.35	0.00	0.35

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	26.59	26.59



TALLAPOOSA



Population	40,844
Pop served by public supply	34,761

Withdrawals, in Million Gallons per Day

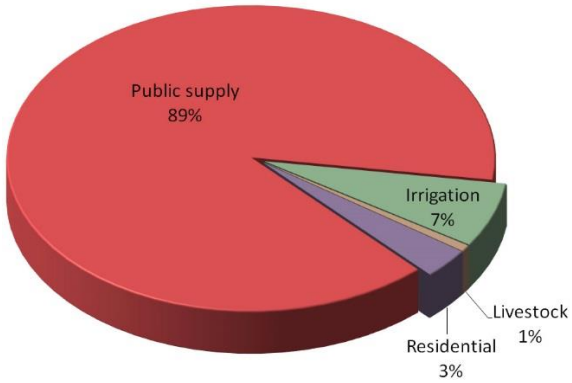
Category	GW	SW	Totals
Public Supply	0.00 0%	11.88 100%	11.88
Residential	0.43 100%	0.00 0%	0.43
Irrigation	0.02 3%	0.89 97%	0.92
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.04 44%	0.05 56%	0.09
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.49 4%	12.83 96%	13.32

Withdrawals by Public Supplier, in MGD

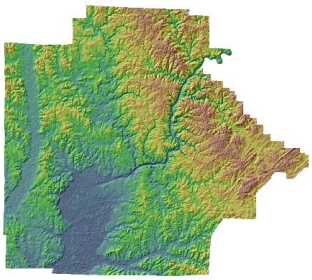
System Name	GW	SW	Total
Tallassee	0.00	1.84	1.84
Alexander City Water Dept.	0.00	10.04	10.04

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



TUSCALOOSA



Population	203,976
Pop served by public supply	192,500

Withdrawals, in Million Gallons per Day

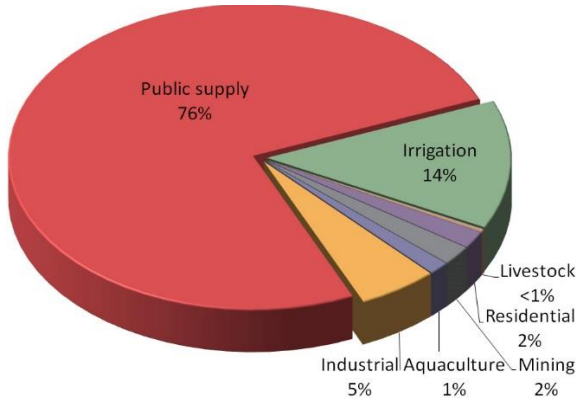
Category	GW	SW	Totals
Public Supply	0.69	30.75	31.45
	2%	98%	
Residential	0.75	0.00	0.75
	100%	0%	
Irrigation	1.33	4.35	5.68
	23%	77%	
Aquaculture	0.24	0.33	0.57
	42%	58%	
Livestock	0.06	0.08	0.14
	43%	57%	
Industrial	1.53	0.67	2.20
	69%	31%	
Mining	0.00	0.85	0.85
	0%	100%	
Thermoelectric	0.00	0.00	0.00
	0%	0%	
Totals	4.59	37.04	41.63
	11%	89%	

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Northport Water Works	0.00	4.09	4.09
Buhl, Elrod and Holman WA	0.35	0.00	0.35
Coker WA	0.34	0.00	0.34
Tuscaloosa W&SD	0.00	26.66	26.66

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Petro & Coal Products Man	1.53	0.50	2.02
Rubber Product Man	0.00	0.18	0.18



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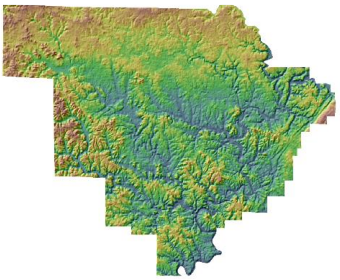
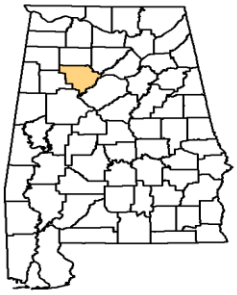




Population	65,294
Pop served by public supply	57,701

Withdrawals, in Million Gallons per Day

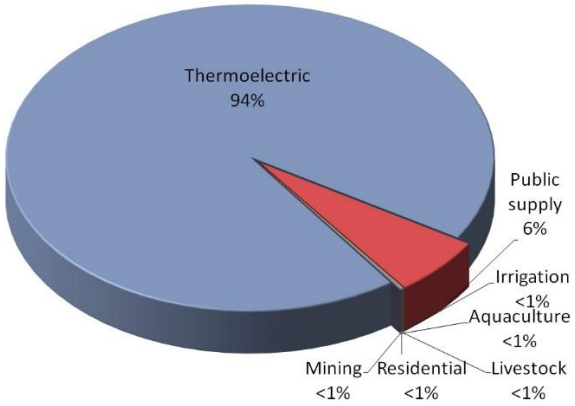
Category	GW	SW	Totals
Public Supply	0.46 1%	43.38 99%	43.84
Residential	0.45 100%	0.00 0%	0.45
Irrigation	0.05 6%	0.67 94%	0.72
Aquaculture	0.00 0%	0.05 100%	0.05
Livestock	0.08 42%	0.11 58%	0.19
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.13 24%	0.41 76%	0.54
Thermoelectric	0.00 0%	664.34 100%	664.34
Totals	1.16 0%	708.96 100%	710.12

Withdrawals by Public Supplier, in MGD

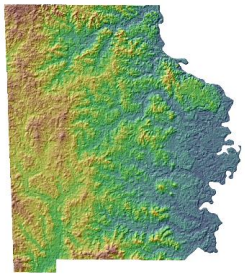
System Name	GW	SW	Total
Birmingham WWB	0.00	33.88	33.88
Eldridge Water Dept.	0.46	0.00	0.46
Jasper WW&SB	0.00	9.49	9.49

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	664.34	664.34



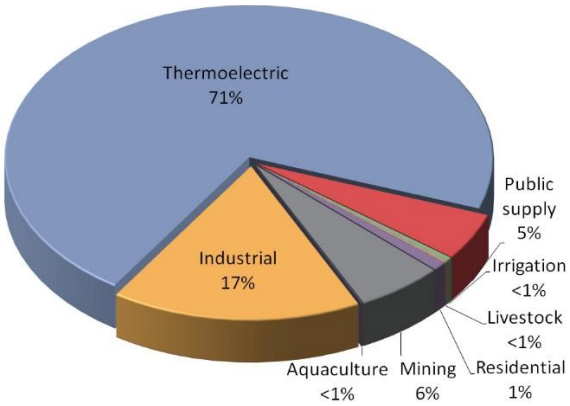
WASHINGTON



Population	16,804
Pop served by public supply	9,159

Withdrawals, in Million Gallons per Day

Category	GW	SW	Totals
Public Supply	2.80 100%	0.00 0%	2.80
Residential	0.52 100%	0.00 0%	0.52
Irrigation	0.07 30%	0.16 70%	0.23
Aquaculture	0.00 0%	0.02 100%	0.02
Livestock	0.06 46%	0.07 54%	0.13
Industrial	5.83 63%	3.42 37%	9.25
Mining	3.22 100%	0.00 0%	3.22
Thermoelectric	0.00 0%	39.94 100%	39.94
Totals	12.50 22%	43.61 78%	56.11



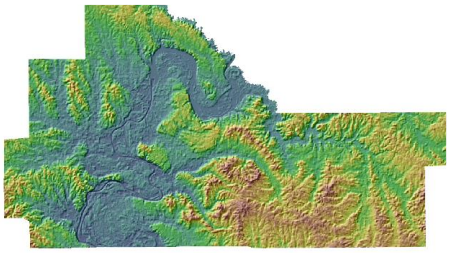
Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Millry Water Works	0.12	0.00	0.12
South Alabama Utilities	1.35	0.00	1.35
St. Stephens Water System	0.08	0.00	0.08
Chatom Utilities Bd.	0.29	0.00	0.29
Deer Park and Vinegar Bend W&FPA	0.10	0.00	0.10
Frankville W&FPA	0.09	0.00	0.09
Leroy WA	0.13	0.00	0.13
McIntosh W&FPA	0.42	0.00	0.42
Washington Co. WA	0.21	0.00	0.21

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	39.94	39.94
Basic Chemical Manufact	4.37	0.00	4.37
Paint, Coat, & Adhsv Man	1.46	3.42	4.88
Warehousing & Storage	0.00	0.00	0.00

WILCOX



Population	11,059
Pop served by public supply	6,592

Withdrawals, in Million Gallons per Day

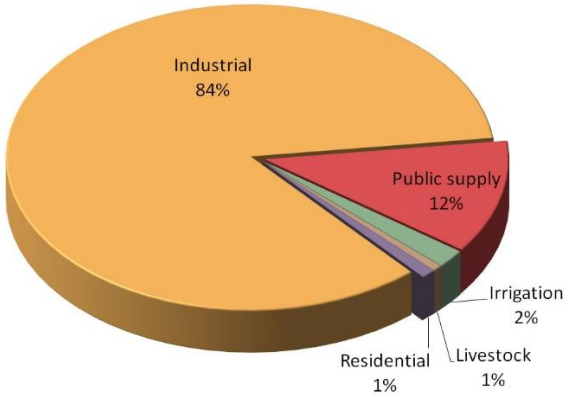
Category	GW	SW	Totals
Public Supply	0.84 30%	1.96 70%	2.80
Residential	0.23 100%	0.00 0%	0.23
Irrigation	0.06 14%	0.39 86%	0.45
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.06 40%	0.09 60%	0.15
Industrial	0.00 0%	19.67 100%	19.67
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.18 5%	22.11 95%	23.30

Withdrawals by Public Supplier, in MGD

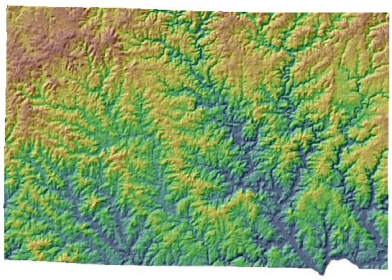
System Name	GW	SW	Total
Camden	0.44	0.00	0.44
Pine Apple Waterworks	0.00	0.00	0.00
Millers Ferry WA	0.09	0.00	0.09
Pine Hill Water Dept.	0.00	0.93	0.93
Thomasville WW&SB	0.00	1.03	1.03
Wilcox Co. Water System	0.30	0.00	0.30

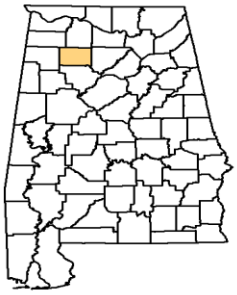
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	19.67	19.67



WINSTON





Population	23,877
Pop served by public supply	15,253

Withdrawals, in Million Gallons per Day

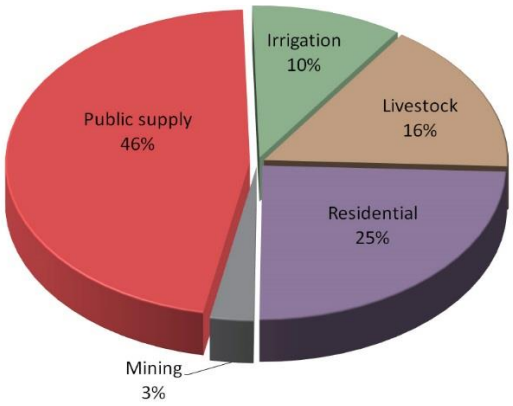
Category	GW	SW	Totals
Public Supply	0.00 0%	0.81 100%	0.81
Residential	0.43 100%	0.00 0%	0.43
Irrigation	0.00 0%	0.18 100%	0.18
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.13 46%	0.15 54%	0.28
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.05 100%	0.00 0%	0.05
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.61 35%	1.14 65%	1.74

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Arley Water Works	0.00	0.81	0.81

Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total



Appendix C

Average Water Withdrawals by Subbasin

The following one-page summaries of water-use information by subbasin present withdrawals by water-use category, public supplier, and major North American Industry Classification System (NAICS) groups, a pie chart of the distribution of total withdrawals by water-use category, and a map that shows the location of the county within the State. See the first example on the following subbasin page for 03130002 – Middle Chattahoochee-Lake Harding. Also listed is the area, estimated population, and the subregion associated with the subbasin. In each of the subbasin summaries, a table lists average daily withdrawals for the categories of use. The withdrawals are totaled by source of water used (surface water [SW] or groundwater [GW]) by category, and the percentage of use is indicated. Each public supplier is listed by the subbasin in which the withdrawal occurs. Therefore, a public supplier may be listed in more than one subbasin depending on the location of its water sources. For example, Birmingham Water Works Board withdraws water from the Upper Coosa (03150105), Mulberry (03160109), Sipsey Fork (03160110), and Locust (03160111) subbasins and is, therefore, listed on each of the corresponding subbasin pages. Information is also provided for withdrawals as classified under the North American Industry Classification System (NAICS) In the tables, public suppliers, categories, and major NAICS groups were listed as withdrawing 0.00 MGD if the withdrawal was less than 0.01 MGD. As a result, some totaled withdrawals from these tables may be less than the totals for public supply or industry in the water-use-category table. Numbers may not sum to total withdrawals because of rounding. No site-specific water withdrawals were reported for the Upper Chickasawhay (0317002, land area 65.1 square miles), Lower Chickasawhay (0317003, land area 0.7 square mile), or Upper Elk (0603003, land area 0.4 square mile) subbasins, and no water-withdrawal estimates were determined for the aquaculture, livestock, mining, or self-supplied residential categories because of the relatively small land areas of these subbasins. Major NAICS groups include the water-use categories of commercial, industrial, and thermoelectric power. Abbreviations were made to allow for system names to fit in the space provided and are shown for public supply in Table C-1 and NAICS codes in Table C-2.

Table C-1. Public supply abbreviations.

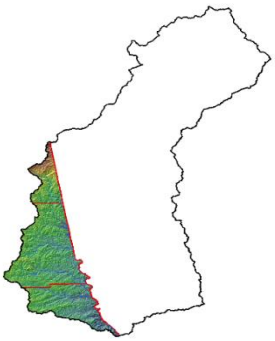
Name	Abbreviation
Authority	Auth.
Board	Bd.
Corporation	Corp.
County	Co.
Department	Dept.
Water & Fire Protection Authority	W&FPA
Water & Fire Protection District	W&FPD
Water & Sewer Authority	W&SA
Water & Sewer Commissioners	W&S Comm.
Water & Sewer Department	W&SD
Water Authority	WA
Water District	WD
Water Supply District	WSD
Water Treatment Plant	WTP
Water Works and Sanitary Sewer Board	WW&SSB
Water Works and Sewer Board	WW&SB
Water Works Board	WWB
Water, Sewer, & Fire Protection Authority	WS&FPA
Water, Sewer, & Fire Protection District	WS&FPD
Water, Sewer, & Gas Board	WS&GB
Waterworks & Sewer Board	WW&SB

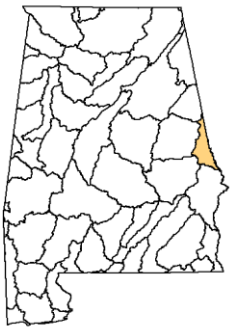
Table C-2. NAICS code abbreviations.

NAICS (North American Indistry Classification System)		
NAICS Code	NAICS Description	NAICS Abbreviated Name
1123	Poultry and Egg Production	Poultry & Egg Prod
2211	Electric Power Generation, Transmission and Distribution	Elect Pwr Gen, Trans & Dist
2371	Utility System Construction	Utility System Construction
3111	Animal Food Manufacturing	Animal Food Man
3112	Grain and Oilseed Milling	Grain & Oilseed Milling
3116	Animal Slaughtering and Processing	Animal Slaughtering & Process
3117	Seafood Product Preparation and Packaging	Seafood Product Prep & Pkg
3119	Other Food Manufacturing	Otr Food Man
3121	Beverage Manufacturing	Beverage Man
3132	Fabric Mills	Fabric Mills
3211	Sawmills and Wood Preservation	Sawmills & Wood Preservation
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	Veneer, Ply, & Eng Wood Man
3219	Other Wood Product Manufacturing	Other Wood Product Manufact
3221	Pulp, Paper, and Paperboard Mills	Pulp, Paper, & Paperboard Mills
3222	Converted Paper Product Manufacturing	Cnv Paper Product Man
3241	Petroleum and Coal Products Manufacturing	Petro & Coal Products Man
3251	Basic Chemical Manufacturing	Basic Chemical Manufact
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	Pest, Fert, & Otr Ag Chem Man
3255	Paint, Coating, and Adhesive Manufacturing	Paint, Coat, & Adhsv Man
3261	Plastics Product Manufacturing	Plastics Product Man
3262	Rubber Product Manufacturing	Rubber Product Man
3273	Cement and Concrete Product Manufacturing	Cement & Concrete Prod Man
3279	Other Nonmetallic Mineral Product Manufacturing	Otr Nonmetallic Min Prod Man
3311	Iron and Steel Mills and Ferroalloy Manufacturing	Iron & Steel Mills & Ferro Man
3312	Steel Product Manufacturing from Purchased Steel	Steel Prod Man from Pur Steel
3315	Foundries	Foundries
3323	Architectural and Structural Metals Manufacturing	Arch & Struct Metals Man
3361	Motor Vehicle Manufacturing	Motor Vehicle Manufacturing
4233	Lumber and Other Construction Materials Merchant Wholesalers	Lum & Otr Const Matls Wholeslrs
4246	Chemical and Allied Product Merchant Whiolesalers	Chem & Allied Prod Wholeslrs
4889	Other Support Activities for Transportation	Otr Support Activities for Trans
4931	Warehousing and Storage	Warehousing & Storage
9281	National Security and International Affairs	Natl Security & Internatl Affairs

Subbasin number - Subbasin name

03130002-Middle Chattahoochee-Lake Harding





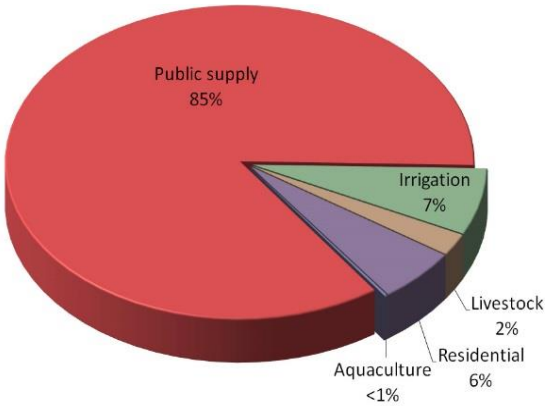
Area (Thousand Acres)	559
Estimated Population (2015)	57,592
Subregion:	Apalachicola

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	7.98 100%	7.98
Residential	0.52 100%	0.00 0%	0.52
Irrigation	0.12 18%	0.53 82%	0.65
Aquaculture	0.01 43%	0.01 57%	0.02
Livestock	0.09 44%	0.12 56%	0.21
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.74 8%	8.64 92%	9.38

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Chattahoochee Valley WSD	0.00	3.56	3.56
Opelika Water Works Bd.	0.00	2.60	2.60
Smiths W&SA	0.00	1.82	1.82

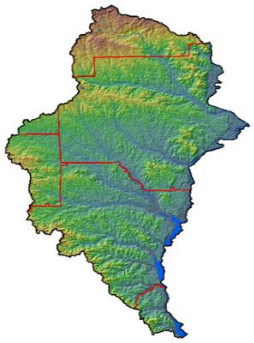


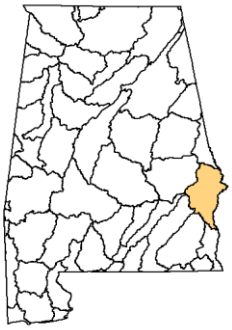
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

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





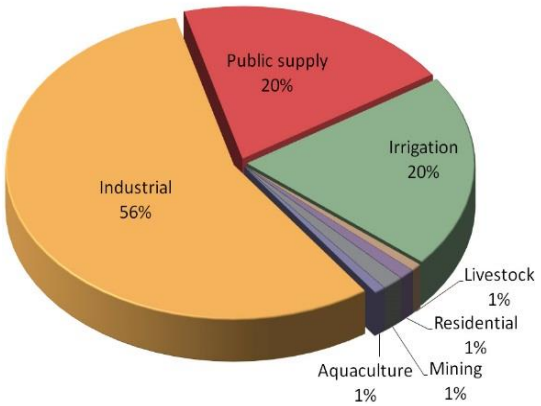
Area (Thousand Acres)	1,427
Estimated Population (2015)	116,236
Subregion:	Apalachicola

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	3.46 33%	6.87 67%	10.33
Residential	0.58 100%	0.00 0%	0.58
Irrigation	0.73 7%	9.90 93%	10.63
Aquaculture	0.30 73%	0.11 27%	0.42
Livestock	0.16 40%	0.24 60%	0.40
Industrial	2.94 10%	26.00 90%	28.95
Mining	0.53 67%	0.26 33%	0.78
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	8.70 17%	43.38 83%	52.08

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Ft. Mitchell Water System, Inc.	0.90	0.00	0.90
Phenix City Utilities	0.00	6.87	6.87
Baker Hill WA	0.16	0.00	0.16
Cowikee WA	0.10	0.00	0.10
Eufaula WW&SB	1.60	0.00	1.60
Hurtsboro Water and Sewer Bd.	0.18	0.00	0.18
Russell Co. WA	0.51	0.00	0.51

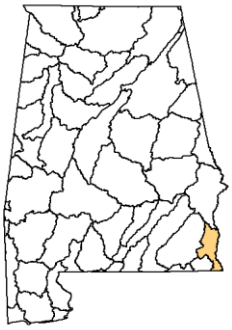


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Animal Slaughtering & Process	1.50	0.00	1.50
Pulp, Paper, & Paperboard Mills	1.44	26.00	27.44

Subbasin number - Subbasin name

03130004-Lower Chattahoochee



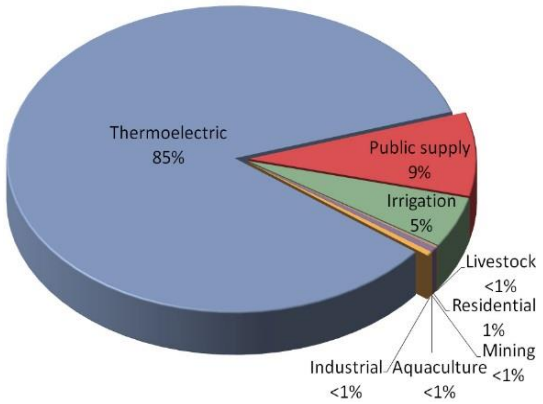
Area (Thousand Acres)	578
Estimated Population (2015)	34,501
Subregion:	Apalachicola

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	10.35 100%	0.00 0%	10.35
Residential	0.58 100%	0.00 0%	0.58
Irrigation	2.89 46%	3.40 54%	6.30
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.10 39%	0.16 61%	0.26
Industrial	0.56 100%	0.00 0%	0.56
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	99.08 100%	99.08
Totals	14.49 12%	102.64 88%	117.13

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Ashford Water Works	0.12	0.00	0.12
Dothan Water System	8.40	0.00	8.40
Gordon Water Works	0.02	0.00	0.02
Kinsey	0.12	0.00	0.12
Newville	0.06	0.00	0.06
Webb Water System	0.12	0.00	0.12
Abbeville WW&SB	0.50	0.00	0.50
Columbia WW&SB	0.10	0.00	0.10
Headland Water Works Bd.	0.26	0.00	0.26
Henry Co. WA	0.66	0.00	0.66

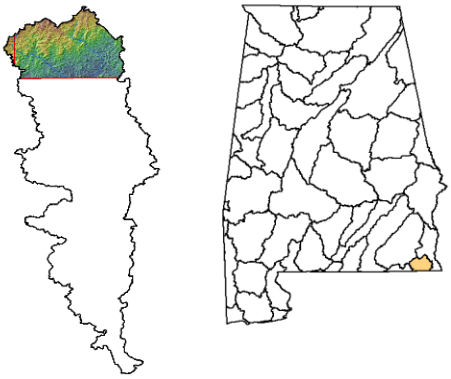


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Groc & Rel Prod Wholeslrs	0.26	0.00	0.26
Elect Pwr Gen, Trans & Dist	0.30	99.08	99.38

Subbasin number - Subbasin name

03130012-Chipola



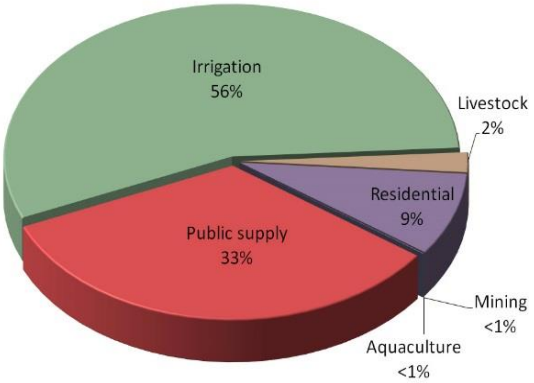
Area (Thousand Acres)	265
Estimated Population (2015)	33,345
Subregion:	Apalachicola

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.91 100%	0.00 0%	1.91
Residential	0.50 100%	0.00 0%	0.50
Irrigation	2.32 73%	0.85 27%	3.17
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.05 40%	0.07 60%	0.12
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	4.78 84%	0.92 16%	5.70

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Ashford Water Works	0.13	0.00	0.13
Cottonwood	0.22	0.00	0.22
Cowarts	0.33	0.00	0.33
Dothan Water System	0.65	0.00	0.65
Town of Taylor	0.28	0.00	0.28
Houston Co. WA	0.30	0.00	0.30

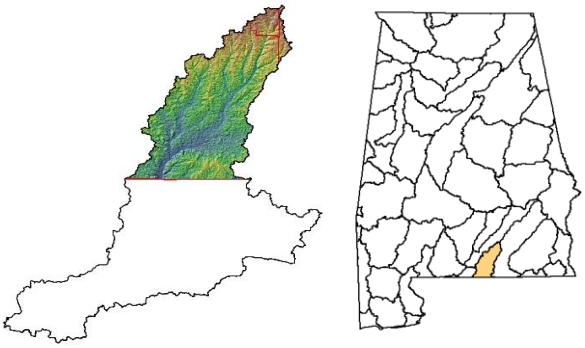


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140103-Yellow



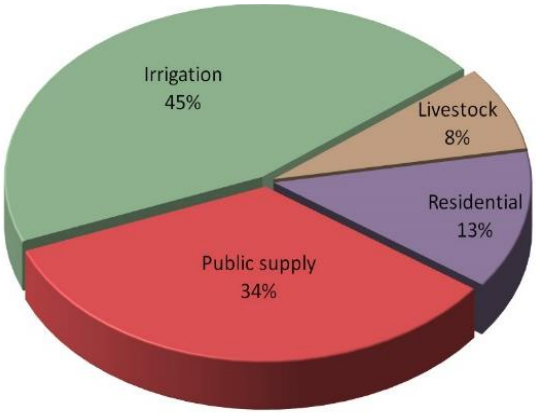
Area (Thousand Acres)	515
Estimated Population (2015)	20,986
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.27 100%	0.00 0%	1.27
Residential	0.48 100%	0.00 0%	0.48
Irrigation	0.60 35%	1.10 65%	1.69
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.12 42%	0.17 58%	0.29
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.47 66%	1.27 34%	3.74

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Lockhart	0.09	0.00	0.09
Covington Co. Water Dept.	0.40	0.00	0.40
Opp Utilities Bd.	0.56	0.00	0.56
Utility Bd. of Andalusia	0.22	0.00	0.22

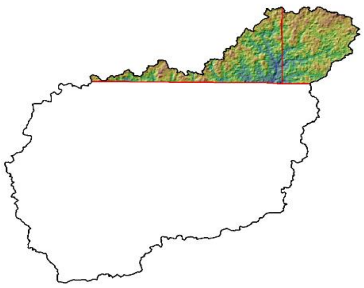


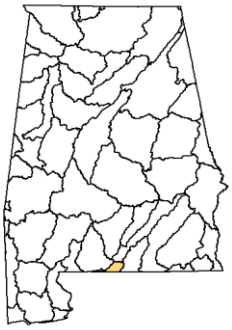
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140104-Blackwater





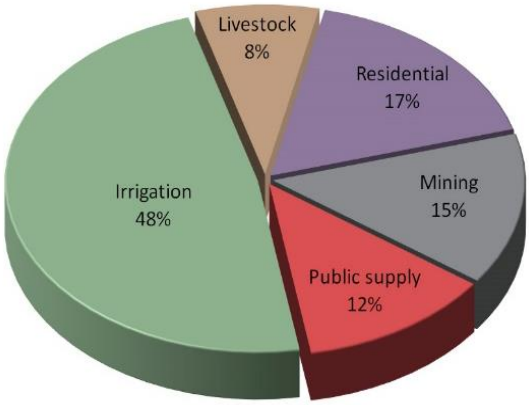
Area (Thousand Acres)	146
Estimated Population (2015)	1,735
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.08 100%	0.00 0%	0.08
Residential	0.11 100%	0.00 0%	0.11
Irrigation	0.16 54%	0.14 46%	0.30
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.02 42%	0.03 58%	0.05
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.09 100%	0.00 0%	0.09
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.46 73%	0.17 27%	0.63

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Covington Co. Water Dept.	0.08	0.00	0.08

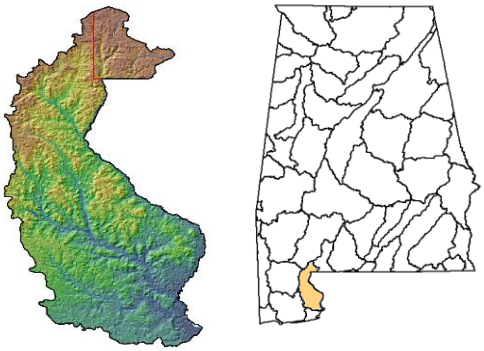


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140106-Perdido



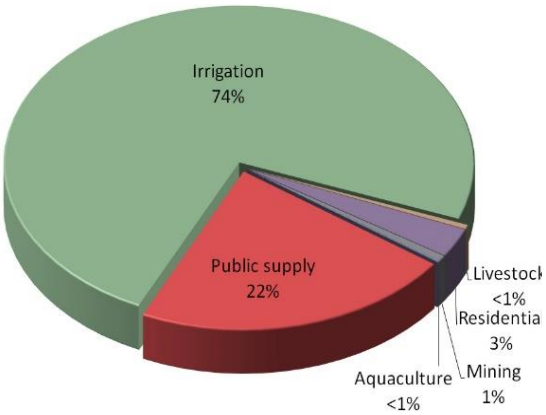
Area (Thousand Acres)	680
Estimated Population (2015)	37,994
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	5.06 100%	0.00 0%	5.06
Residential	0.69 100%	0.00 0%	0.69
Irrigation	14.47 85%	2.51 15%	16.98
Aquaculture	0.02 50%	0.02 50%	0.03
Livestock	0.04 44%	0.06 56%	0.10
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.14 100%	0.00 0%	0.14
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	20.42 89%	2.58 11%	23.00

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Loxley	0.41	0.00	0.41
North Baldwin Utilities	2.55	0.00	2.55
Robertsdale	0.72	0.00	0.72
Atmore Utility Bd.	0.90	0.00	0.90
East Central Baldwin Co. WA	0.33	0.00	0.33
Summerdale Water Dept.	0.15	0.00	0.15

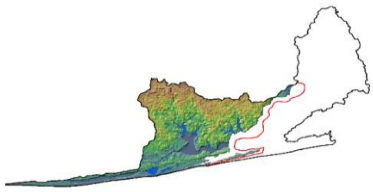


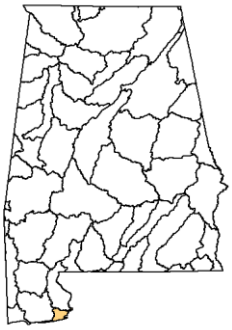
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140107-Perdido Bay





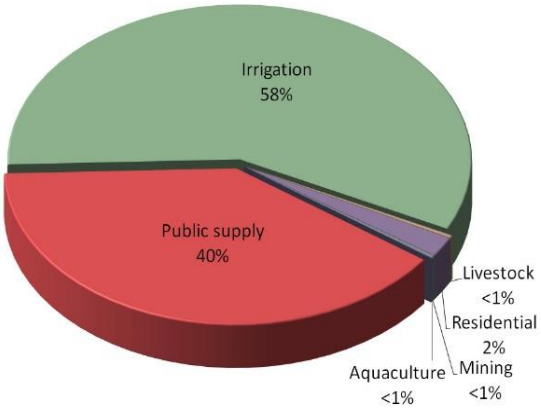
Area (Thousand Acres)	165
Estimated Population (2015)	30,552
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	5.62 100%	0.00 0%	5.62
Residential	0.29 100%	0.00 0%	0.29
Irrigation	6.35 77%	1.89 23%	8.24
Aquaculture	0.01 50%	0.01 50%	0.01
Livestock	0.02 45%	0.02 55%	0.04
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.03 100%	0.00 0%	0.03
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	12.32 87%	1.92 13%	14.24

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Eureka Water Service, Inc.	0.00	0.00	0.00
Riviera Utilities	1.45	0.00	1.45
Gulf Shores Utilities Bd.	0.98	0.00	0.98
Orange Beach WS&FP	2.85	0.00	2.85
Perdido Bay WS&FPD	0.33	0.00	0.33

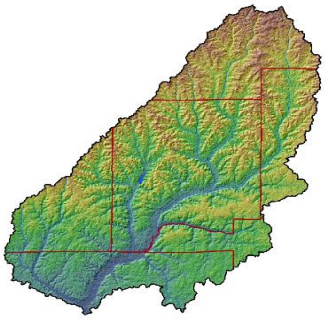


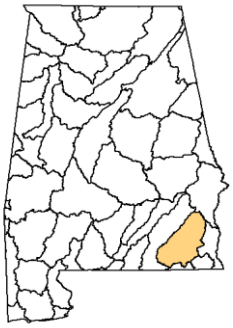
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140201-Upper Choctawhatchee

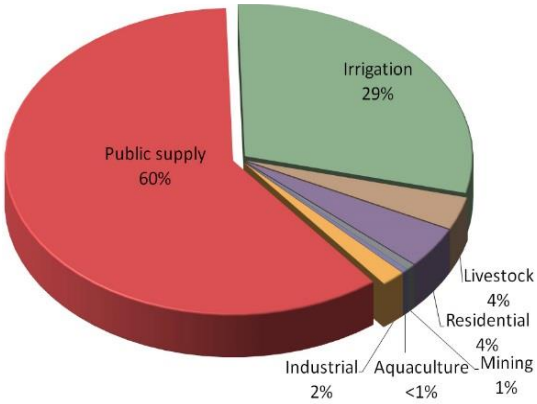




Area (Thousand Acres)	1,543
Estimated Population (2015)	155,888
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	20.98 100%	0.00 0%	20.98
Residential	1.51 100%	0.00 0%	1.51
Irrigation	3.10 30%	7.16 70%	10.27
Aquaculture	0.11 69%	0.05 31%	0.16
Livestock	0.51 42%	0.70 58%	1.21
Industrial	0.60 100%	0.00 0%	0.60
Mining	0.15 67%	0.08 33%	0.23
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	26.96 77%	7.99 23%	34.95



Withdrawals by Public Supplier, in MGD

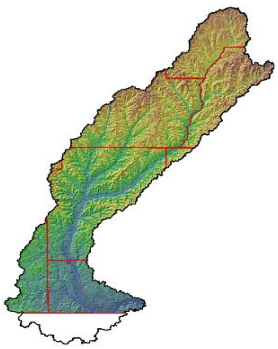
System Name	GW	SW	Total
American Water Enterprises, Inc.	0.80	0.00	0.80
Blue Springs Water System	0.05	0.00	0.05
City of Level Plains	0.27	0.00	0.27
Clio	0.32	0.00	0.32
Daleville	0.49	0.00	0.49
Dothan Water System	9.32	0.00	9.32
Geneva Water Works	0.18	0.00	0.18
Hartford	0.15	0.00	0.15
Louisville Water Works	0.12	0.00	0.12
Midland City	0.26	0.00	0.26
Pinckard	0.11	0.00	0.11
Slocomb Water Works	0.03	0.00	0.03
Town of Coffee Springs	0.02	0.00	0.02
Town of Taylor	0.31	0.00	0.31
Ariton Water Dept.	0.08	0.00	0.08
Baker Hill WA	0.34	0.00	0.34
Clayton WW&SB	0.05	0.00	0.05
Dale Co. WA	0.51	0.00	0.51
Enterprise Water Works Bd.	4.80	0.00	4.80
Headland Water Works Bd.	0.19	0.00	0.19
Malvern Water Dept.	0.12	0.00	0.12
New Brockton Water & Sewer Bd.	0.20	0.00	0.20
Newton Water and Sewer Bd.	0.17	0.00	0.17
North Geneva Co. WA	0.04	0.00	0.04
Ozark Utilities Bd.	2.04	0.00	2.04

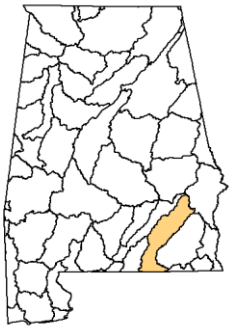
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Animal Slaughtering & Process	0.60	0.00	0.60				

Subbasin number - Subbasin name

03140202-Pea





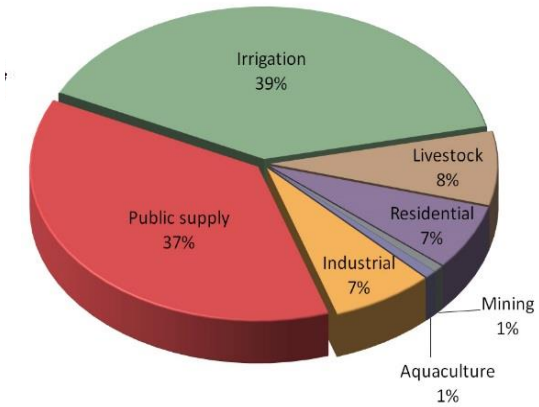
Area (Thousand Acres)	1,445
Estimated Population (2015)	51,124
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	5.83 100%	0.00 0%	5.83
Residential	1.08 100%	0.00 0%	1.08
Irrigation	1.95 32%	4.23 68%	6.17
Aquaculture	0.08 61%	0.05 39%	0.13
Livestock	0.52 42%	0.71 58%	1.23
Industrial	1.14 100%	0.00 0%	1.14
Mining	0.08 69%	0.04 31%	0.12
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	10.66 68%	5.03 32%	15.69

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Banks Water System	0.12	0.00	0.12
Brundidge	0.37	0.00	0.37
Geneva Water Works	0.22	0.00	0.22
Jack Water System, Inc.	0.10	0.00	0.10
Kinston Water System	0.01	0.00	0.01
Louisville Water Works	0.03	0.00	0.03
Midway Water Works	0.10	0.00	0.10
Samson (City of)	0.22	0.00	0.22
Ariton Water Dept.	0.02	0.00	0.02
Clayton WW&SB	0.22	0.00	0.22
Coffee Co. WA	0.38	0.00	0.38
Elba Water and Electric Bd.	0.61	0.00	0.61
Eufaula WW&SB	0.14	0.00	0.14
Florala WW&SB	0.30	0.00	0.30
New Brockton Water & Sewer Bd.	0.03	0.00	0.03
Opp Utilities Bd.	0.21	0.00	0.21
Pike Co. WA	0.43	0.00	0.43
Troy Utility Dept.	2.22	0.00	2.22
West Barbour Co. WA	0.09	0.00	0.09

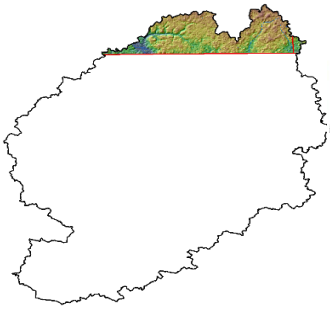


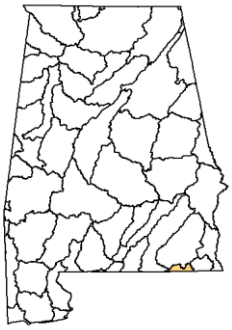
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Animal Slaughtering & Process	1.14	0.00	1.14				

Subbasin number - Subbasin name

03140203-Lower Choctawhatchee





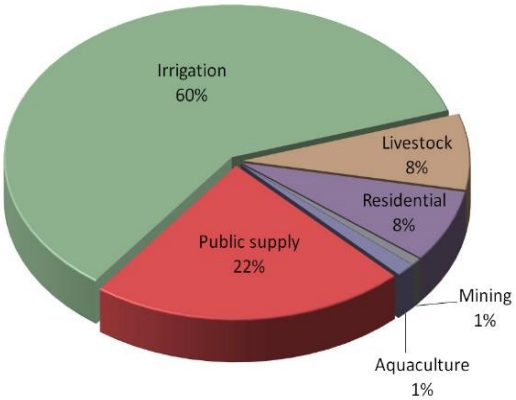
Area (Thousand Acres)	135
Estimated Population (2015)	7,260
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.47 100%	0.00 0%	0.47
Residential	0.16 100%	0.00 0%	0.16
Irrigation	0.60 48%	0.66 52%	1.26
Aquaculture	0.03 100%	0.00 0%	0.03
Livestock	0.07 43%	0.10 57%	0.17
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.01 71%	0.00 29%	0.02
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.35 64%	0.76 36%	2.11

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Black Water Works	0.03	0.00	0.03
Geneva Water Works	0.08	0.00	0.08
Hartford	0.20	0.00	0.20
Slocomb Water Works	0.17	0.00	0.17

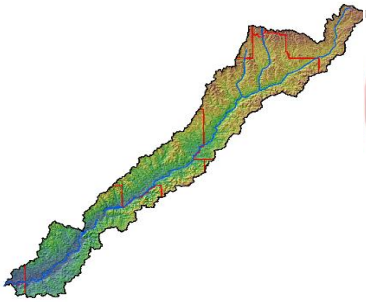


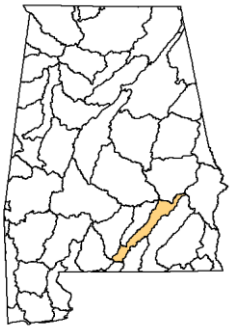
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140301-Upper Conecuh





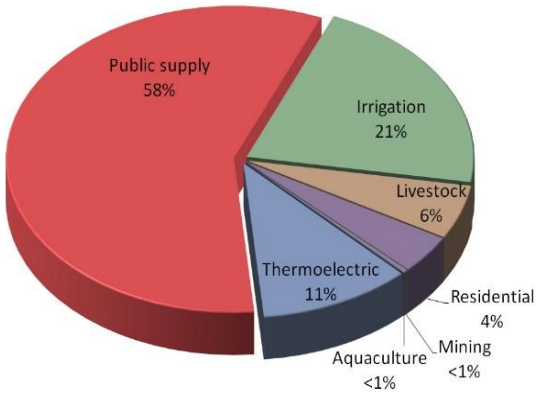
Area (Thousand Acres)	822
Estimated Population (2015)	28,478
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	6.12 100%	0.00 0%	6.12
Residential	0.43 100%	0.00 0%	0.43
Irrigation	0.69 31%	1.57 69%	2.26
Aquaculture	0.00 21%	0.01 79%	0.01
Livestock	0.25 41%	0.35 59%	0.60
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.02 77%	0.01 23%	0.03
Thermoelectric	0.00 0%	1.15 100%	1.15
Totals	7.51 71%	3.09 29%	10.60

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Brantley Water Works	0.10	0.00	0.10
Dozier Water Works	0.02	0.00	0.02
Goshen	0.05	0.00	0.05
Town of River Falls	0.10	0.00	0.10
Covington Co. Water Dept.	0.48	0.00	0.48
Pike Co. WA	0.41	0.00	0.41
South Bullock Co. WA	0.59	0.00	0.59
South Crenshaw Co. WA	0.61	0.00	0.61
Troy Utility Dept.	0.99	0.00	0.99
Union Springs Utilities Bd.	1.09	0.00	1.09
Utility Bd. of Andalusia	1.68	0.00	1.68

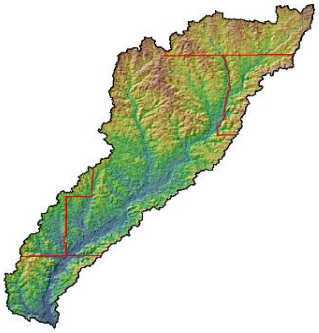


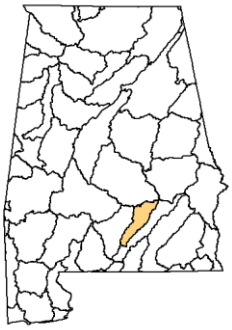
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	1.15	1.15				

Subbasin number - Subbasin name

03140302-Patsaliga





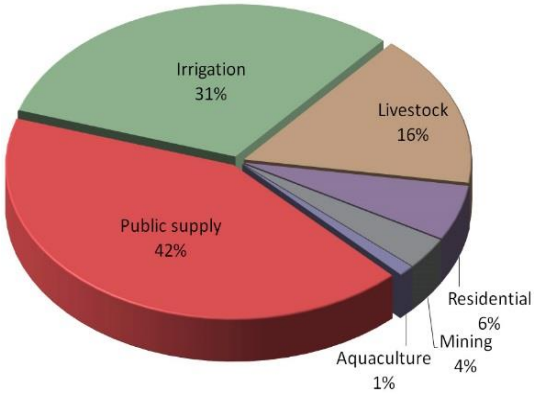
Area (Thousand Acres)	600
Estimated Population (2015)	12,834
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.60 100%	0.00 0%	1.60
Residential	0.22 100%	0.00 0%	0.22
Irrigation	0.58 49%	0.61 51%	1.19
Aquaculture	0.02 50%	0.02 50%	0.04
Livestock	0.25 41%	0.36 59%	0.61
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.09 68%	0.04 32%	0.13
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.76 73%	1.03 27%	3.79

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Ramer Water Co., Inc.	0.11	0.00	0.11
Red Level Water Works	0.06	0.00	0.06
Rutledge	0.06	0.00	0.06
Covington Co. Water Dept.	0.13	0.00	0.13
Luverne WW&SB	0.48	0.00	0.48
Pine Level WA	0.19	0.00	0.19
Quint-Mar WA	0.57	0.00	0.57

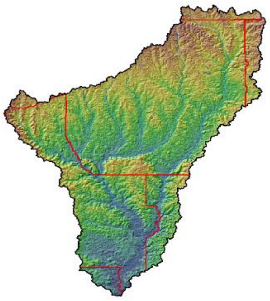


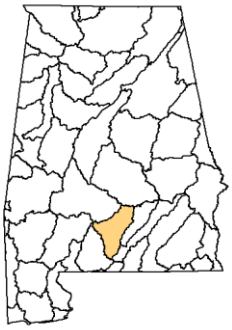
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03140303-Sepulga





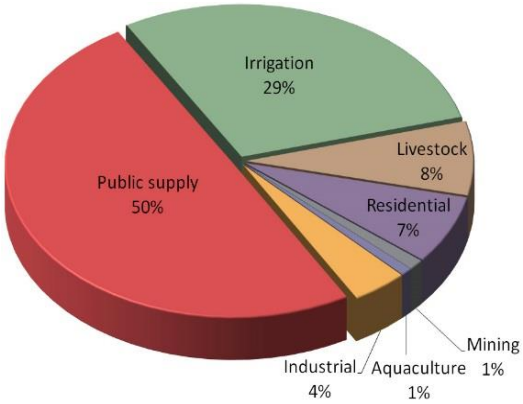
Area (Thousand Acres)	1,049
Estimated Population (2015)	25,424
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	2.46 100%	0.00 0%	2.46
Residential	0.36 100%	0.00 0%	0.36
Irrigation	0.14 9%	1.31 91%	1.44
Aquaculture	0.02 50%	0.02 50%	0.04
Livestock	0.16 41%	0.23 59%	0.39
Industrial	0.19 100%	0.00 0%	0.19
Mining	0.04 82%	0.01 18%	0.05
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.37 68%	1.56 32%	4.93

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Town of McKenzie - Town Hall	0.11	0.00	0.11
Butler Co. WA	0.98	0.00	0.98
Georgiana WW&SB	0.24	0.00	0.24
Greenville WW&SB	0.78	0.00	0.78
Owassa/Brownville WA	0.17	0.00	0.17
The WW&SB of Fort Deposit	0.17	0.00	0.17

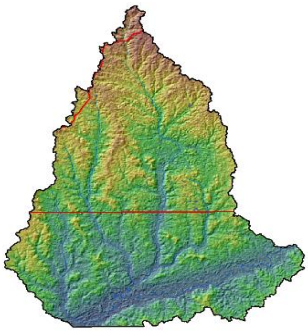


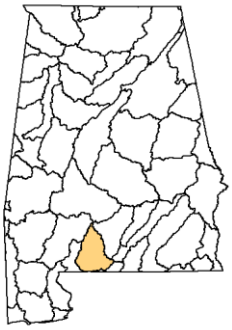
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.19	0.00	0.19				

Subbasin number - Subbasin name

03140304-Lower Conecuh





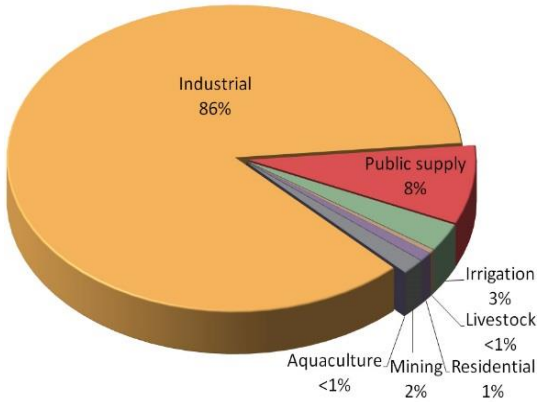
Area (Thousand Acres)	1,000
Estimated Population (2015)	25,098
Subregion:	Choctawhatchee-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	3.30 100%	0.00 0%	3.30
Residential	0.38 100%	0.00 0%	0.38
Irrigation	0.58 49%	0.59 51%	1.17
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.07 41%	0.09 59%	0.16
Industrial	1.46 4%	32.54 96%	34.01
Mining	0.65 98%	0.01 2%	0.66
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	6.44 16%	33.24 84%	39.68

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Castleberry	0.09	0.00	0.09
City of Evergreen	0.81	0.00	0.81
East Brewton	0.26	0.00	0.26
Fairview Water System	0.07	0.00	0.07
Hamden Ridge P/A, Inc.	0.14	0.00	0.14
McCall Water System	0.46	0.00	0.46
Pollard	0.01	0.00	0.01
Riverview Water System	0.08	0.00	0.08
Brewton Water Works Bd.	1.25	0.00	1.25
Ridge Road WA	0.13	0.00	0.13

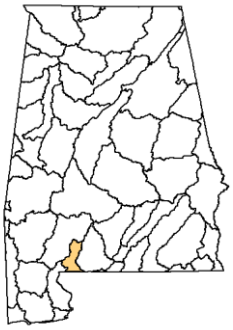


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Basic Chemical Manufact	0.19	0.00	0.19
Cnv Paper Product Man	0.20	32.54	32.74
Sawmills & Wood Preservation	1.08	0.00	1.08

Subbasin number - Subbasin name

03140305-Escambia



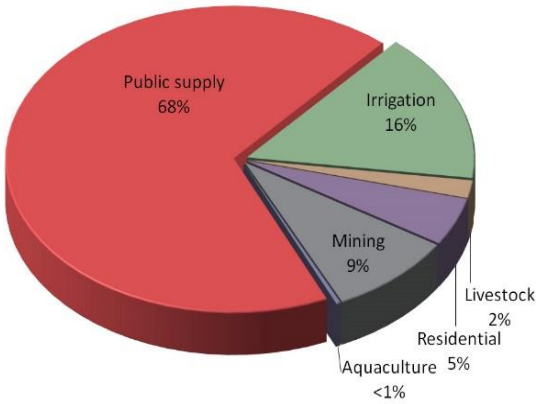
Area (Thousand Acres)	366
Estimated Population (2015)	18,377
Subregion:	Perdido-Escambia

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	2.19 100%	0.00 0%	2.19
Residential	0.16 100%	0.00 0%	0.16
Irrigation	0.27 53%	0.24 47%	0.51
Aquaculture	0.00 0%	0.00 0%	0.01
Livestock	0.02 41%	0.04 59%	0.06
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.29 99%	0.00 1%	0.29
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.94 91%	0.28 9%	3.22

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Excel Water System	0.30	0.00	0.30
Flomaton	0.27	0.00	0.27
Freemanville Water System, Inc.	0.33	0.00	0.33
McCall Water System	0.35	0.00	0.35
Repton	0.04	0.00	0.04
Atmore Utility Bd.	0.88	0.00	0.88
Canoe W&FPA	0.03	0.00	0.03

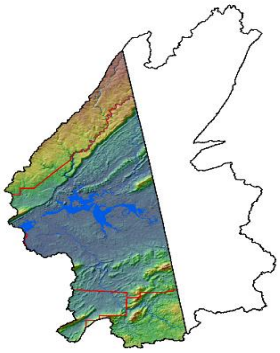


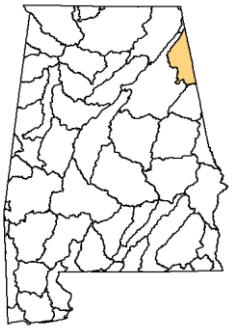
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03150105-Upper Coosa





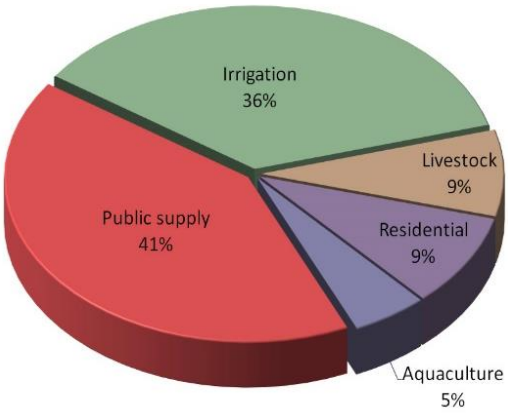
Area (Thousand Acres)	851
Estimated Population (2015)	43,046
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	2.43 60%	1.65 40%	4.08
Residential	0.90 100%	0.00 0%	0.90
Irrigation	0.09 3%	3.47 97%	3.56
Aquaculture	0.48 98%	0.01 2%	0.50
Livestock	0.37 44%	0.47 56%	0.84
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	4.28 43%	5.60 57%	9.88

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Centre WW&SB	0.00	0.77	0.77
Cherokee Co. WA	1.26	0.00	1.26
Northeast Alabama WS&FPA	1.18	0.00	1.18
Piedmont WW&SB	0.00	0.87	0.87

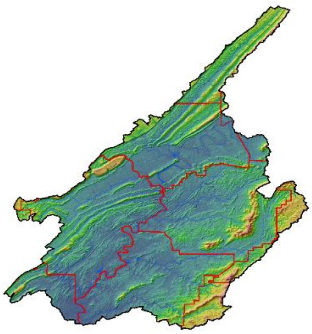


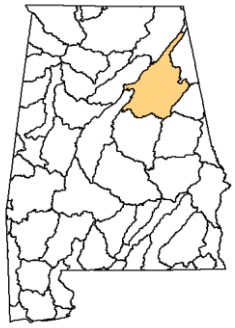
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03150106-Middle Coosa

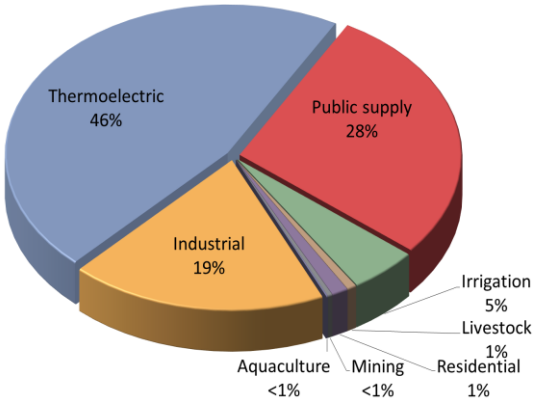




Area (Thousand Acres)	2,582
Estimated Population (2015)	355,811
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	36.18 57%	27.70 43%	63.88
Residential	2.75 100%	0.00 0%	2.75
Irrigation	0.54 5%	10.84 95%	11.38
Aquaculture	0.15 55%	0.12 45%	0.26
Livestock	0.70 44%	0.87 56%	1.57
Industrial	1.72 4%	40.98 96%	42.71
Mining	0.69 87%	0.10 13%	0.79
Thermoelectric	0.00 0%	105.52 100%	105.52
Totals	42.73 19%	186.13 81%	228.86



Withdrawals by Public Supplier, in MGD

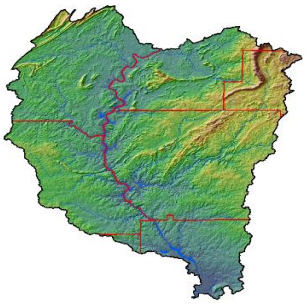
System Name	GW	SW	Total
Ashville Water and Sewer	0.21	0.32	0.53
Big Wills Water	0.23	0.00	0.23
Glencoe Water and Sewer Works	0.42	0.00	0.42
Lincoln	1.39	0.00	1.39
Pell City	1.40	0.00	1.40
Weaver Water System	0.52	0.00	0.52
Anniston WW&SB	15.28	0.74	16.02
Attalla Water Works Bd.	1.28	0.00	1.28
Calhoun Co. WA	2.96	0.00	2.96
Childersburg WS&GB	0.26	0.00	0.26
City of Talladega W&SD	2.90	0.52	3.42
Coosa Valley WSD	0.00	2.26	2.26
Fort Payne Water Works Bd.	0.00	4.82	4.82
Gadsden WW&SB	0.00	12.73	12.73
Hokes Bluff Water Bd.	0.75	0.00	0.75
Jacksonville WW&SB	0.00	1.17	1.17
Munford WA, Inc.	0.31	0.00	0.31
New London WA	0.66	0.00	0.66
Odenville Utilities Bd.	1.22	0.00	1.22
Oxford WW&SB	3.70	0.00	3.70
Ragland Water Works Bd.	0.44	0.00	0.44
Riverside Utility Bd.	0.03	0.00	0.03
Southside WW&SB	0.75	0.00	0.75
Talladega/Shelby WTP	0.00	5.14	5.14
Vincent Water Dept.	0.26	0.00	0.26
Water Works, Inc.	0.35	0.00	0.35
Wattsville WA	0.60	0.00	0.60
West Etowah Co. WA	0.23	0.00	0.23

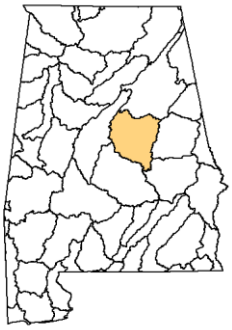
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Beverage Man	0.43	0.00	0.43	Poultry & Egg Prod	0.57	0.00	0.57
Cement & Concrete Prod Man	0.00	6.10	6.10	Pulp, Paper, & Paperboard Mills	0.50	26.59	27.08
Elect Pwr Gen, Trans & Dist	0.00	105.52	105.52	Rubber Product Man	0.00	8.30	8.30
Foundries	0.22	0.00	0.22				

Subbasin number - Subbasin name

03150107-Lower Coosa





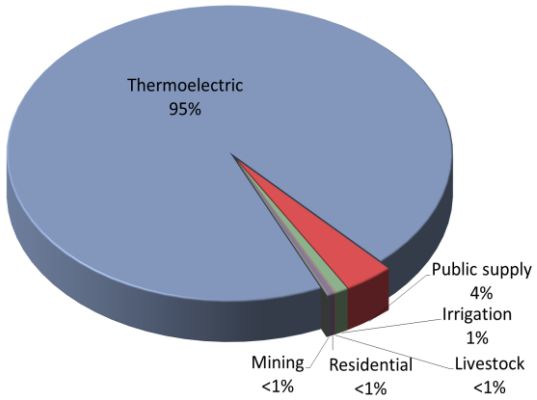
Area (Thousand Acres)	1,961
Estimated Population (2015)	146,896
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	6.97 40%	10.43 60%	17.39
Residential	1.64 100%	0.00 0%	1.64
Irrigation	0.83 18%	3.71 82%	4.53
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.21 44%	0.26 56%	0.47
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.84 68%	0.39 32%	1.23
Thermoelectric	0.00 0%	462.22 100%	462.22
Totals	10.48 2%	477.00 98%	487.48

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Five Star Water Supply	0.00	5.29	5.29
Central Talladega Co. WD	0.30	0.00	0.30
Childersburg WS&GB	1.24	0.00	1.24
Clanton WW&SB	0.00	1.89	1.89
Columbiana Water Works Bd.	1.77	0.00	1.77
Harpersville Water Bd.	0.27	0.00	0.27
Shelby Co. Water System	0.00	2.30	2.30
Stewartville WA	0.27	0.00	0.27
Sycamore W&SA	0.18	0.00	0.18
Thorsby Water Works Bd.	0.62	0.00	0.62
Utilities Bd. of Sylacauga	2.10	0.95	3.05
Wilsonville Waterworks	0.22	0.00	0.22

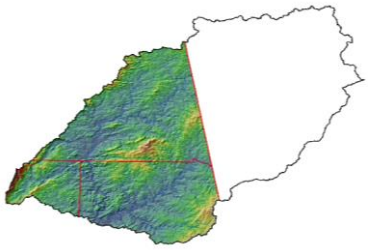


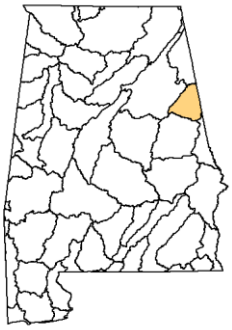
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	462.22	462.22				

Subbasin number - Subbasin name

03150108-Upper Tallapoosa





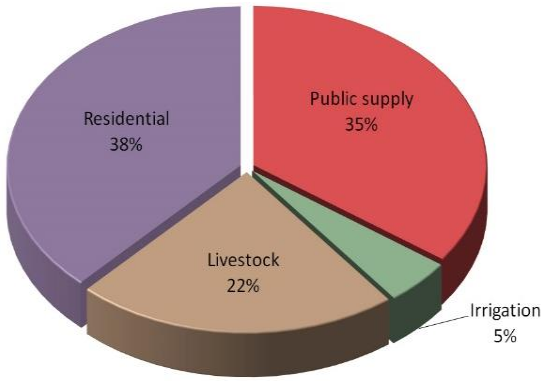
Area (Thousand Acres)	744
Estimated Population (2015)	21,258
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	0.88 100%	0.88
Residential	0.95 100%	0.00 0%	0.95
Irrigation	0.01 11%	0.10 89%	0.12
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.26 46%	0.30 54%	0.56
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.23 49%	1.28 51%	2.51

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Heflin Water Works	0.00	0.49	0.49
Wedowee Gas, Water & Sewer	0.00	0.39	0.39

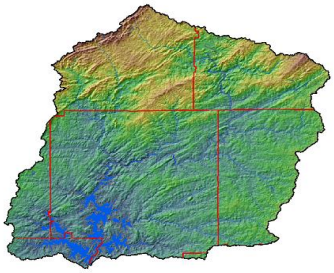


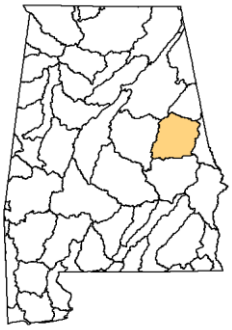
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03150109-Middle Tallapoosa





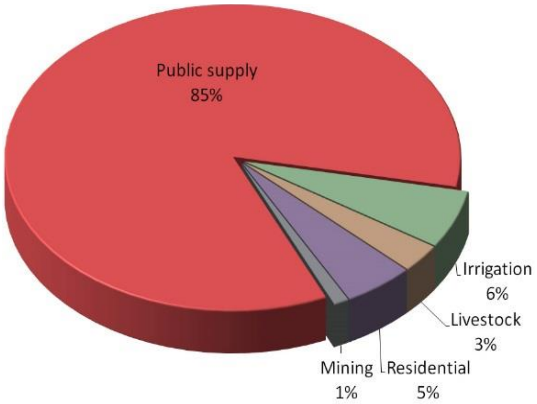
Area (Thousand Acres)	1,589
Estimated Population (2015)	60,010
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	17.51 100%	17.51
Residential	1.03 100%	0.00 0%	1.03
Irrigation	0.11 9%	1.16 91%	1.27
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.28 45%	0.34 55%	0.62
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.15 68%	0.07 32%	0.23
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.58 8%	19.08 92%	20.65

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Lafayette	0.00	0.65	0.65
Alexander City Water Dept.	0.00	10.04	10.04
Central Elmore W&SA	0.00	4.22	4.22
Clay Co. WA	0.00	1.78	1.78
Roanoke Utilities Bd.	0.00	0.83	0.83

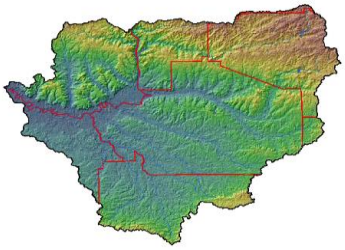


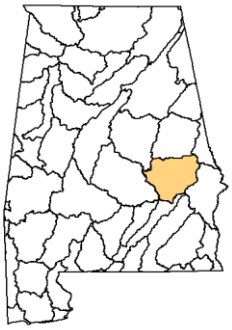
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03150110-Lower Tallapoosa





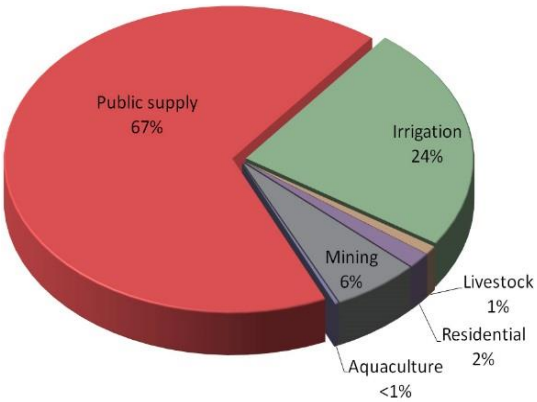
Area (Thousand Acres)	1,702
Estimated Population (2015)	188,636
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	4.87 15%	27.22 85%	32.09
Residential	0.79 100%	0.00 0%	0.79
Irrigation	3.82 33%	7.58 67%	11.40
Aquaculture	0.05 42%	0.07 58%	0.13
Livestock	0.18 41%	0.26 59%	0.43
Industrial	0.00 0%	0.00 0%	0.00
Mining	1.98 67%	0.96 33%	2.94
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	11.69 24%	36.09 76%	47.78

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Tallassee	0.00	1.84	1.84
Tuskegee Utilities	0.00	1.95	1.95
Beauregard WA	1.00	0.00	1.00
Loachapoka WA	0.71	0.00	0.71
Macon Co. WA	0.45	0.00	0.45
Montgomery WW&SSB	0.32	14.85	15.17
Opelika Water Works Bd.	0.00	4.00	4.00
South Bullock Co. WA	0.07	0.00	0.07
Star Mindingall WA	0.93	0.00	0.93
The Water Works Bd. of Auburn	1.13	4.58	5.71
Union Springs Utilities Bd.	0.26	0.00	0.26

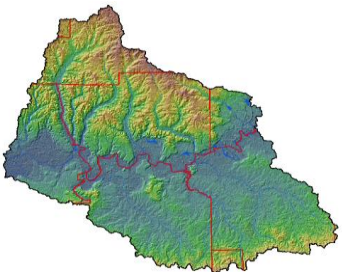


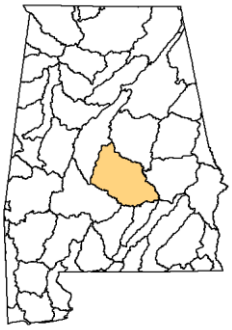
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03150201-Upper Alabama

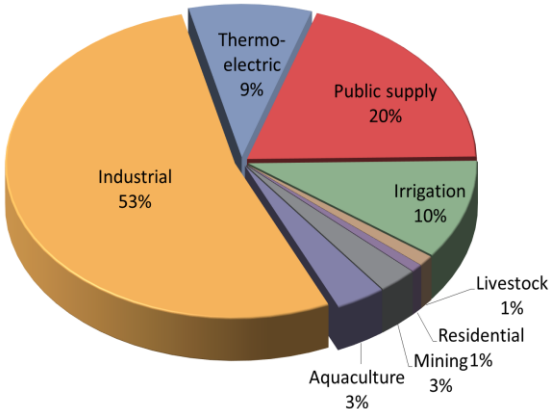




Area (Thousand Acres)	2,389
Estimated Population (2015)	322,720
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	26.97 100%	0.00 0%	26.97
Residential	1.12 100%	0.00 0%	1.12
Irrigation	6.75 47%	7.48 53%	14.23
Aquaculture	2.97 62%	1.79 38%	4.76
Livestock	0.61 41%	0.89 59%	1.51
Industrial	8.47 12%	63.66 88%	72.14
Mining	2.57 69%	1.16 31%	3.74
Thermoelectric	0.00 0%	11.86 100%	11.86
Totals	49.48 36%	86.85 64%	136.33



Withdrawals by Public Supplier, in MGD

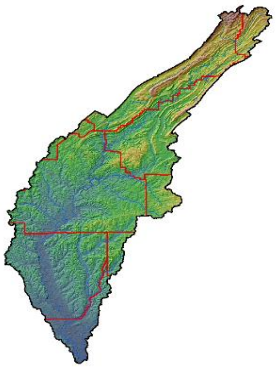
System Name	GW	SW	Total
Autaugaville Water System	0.20	0.00	0.20
Billingsley Water System	0.10	0.00	0.10
Hayneville	0.33	0.00	0.33
Holtville Water System, Inc.	0.08	0.00	0.08
Lowndesboro	0.11	0.00	0.11
Marbury Water System	0.47	0.00	0.47
Millbrook Utility System	0.11	0.00	0.11
Pintlala Water System, Inc.	0.46	0.00	0.46
Sellers Station Water System, Inc.	0.09	0.00	0.09
Selma Water Works	3.44	0.00	3.44
Snowdoun Water System Inc.	0.21	0.00	0.21
Tri-Community Water System	1.41	0.00	1.41
White Hall	0.18	0.00	0.18
Autauga Co. WA	0.58	0.00	0.58
Chilton WA	1.35	0.00	1.35
Dallas Co. W&SA	0.76	0.00	0.76
Elmore W&SA	0.79	0.00	0.79
Lowndes Co. WA	0.19	0.00	0.19
Montgomery WW&SSB	11.81	0.00	11.81
Mosses WA	0.13	0.00	0.13
North Dallas WA	1.16	0.00	1.16
Pilgrim Providence W&FPA	0.08	0.00	0.08
Prattville Water Works Bd.	2.30	0.00	2.30
South Dallas WA	0.32	0.00	0.32
West Autauga WA	0.29	0.00	0.29

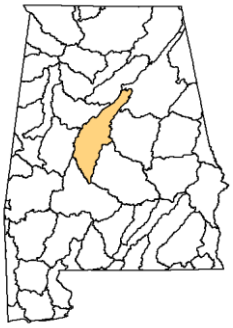
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	11.86	11.86	Plastics Product Man	4.24	0.00	4.24
Motor Vehicle Manufacturing	0.45	0.00	0.45	Pulp, Paper, & Paperboard Mills	2.06	63.63	65.70
Natl Security & Internatl Affairs	0.02	0.03	0.05	Sawmills & Wood Preservation	0.39	0.00	0.39
Otr Food Man	1.30	0.00	1.30				

Subbasin number - Subbasin name

03150202-Cahaba





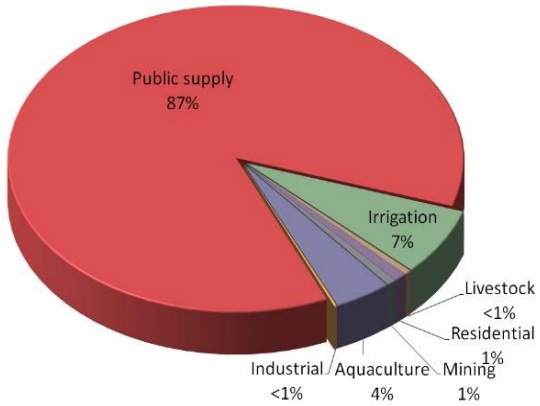
Area (Thousand Acres)	1,822
Estimated Population (2015)	442,529
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	24.71 33%	51.07 67%	75.77
Residential	0.80 100%	0.00 0%	0.80
Irrigation	0.62 10%	5.61 90%	6.23
Aquaculture	2.14 60%	1.41 40%	3.55
Livestock	0.18 42%	0.25 58%	0.43
Industrial	0.16 100%	0.00 0%	0.16
Mining	0.38 64%	0.21 36%	0.59
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	28.98 33%	58.54 67%	87.52

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Birmingham WWB	0.00	51.07	51.07
Calera	2.33	0.00	2.33
Centreville Water System	0.85	0.00	0.85
Citizens' Water Service, Inc.	1.23	0.00	1.23
Green Pond Water System	0.97	0.00	0.97
Irondale Water System	1.13	0.00	1.13
Pelham Water Works	2.71	0.00	2.71
West Blocton Water Works	0.61	0.00	0.61
Wilton Water Works	0.45	0.00	0.45
Alabaster Water Bd.	2.59	0.00	2.59
Brent Utilities Bd.	0.84	0.00	0.84
Chilton WA	0.54	0.00	0.54
Helena Utility Bd.	1.15	0.00	1.15
Leeds Water Works Bd.	2.34	0.00	2.34
Montevallo WW&SB	0.62	0.00	0.62
Odenville Utilities Bd.	1.13	0.00	1.13
Perry Co. WA	0.61	0.00	0.61
Trussville Utilities Bd.	3.97	0.00	3.97
Warrior River WA	0.63	0.00	0.63

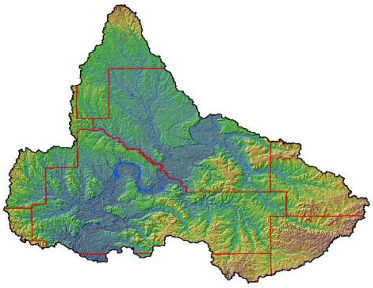


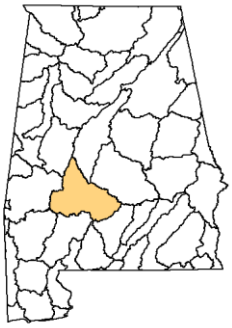
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Cement & Concrete Prod Man	0.16	0.00	0.16				

Subbasin number - Subbasin name

03150203-Middle Alabama





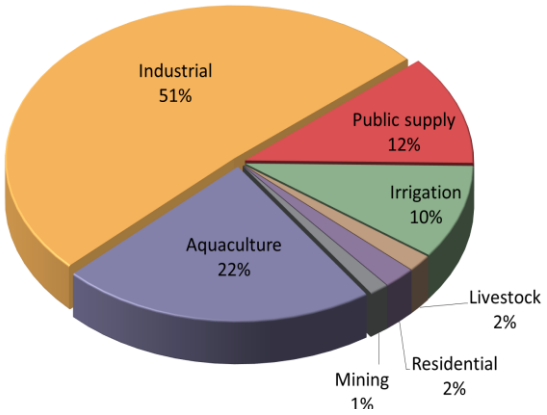
Area (Thousand Acres)	2,228
Estimated Population (2015)	27,162
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	2.48 56%	1.96 44%	4.44
Residential	0.87 100%	0.00 0%	0.87
Irrigation	0.67 17%	3.15 83%	3.81
Aquaculture	5.50 64%	3.09 36%	8.59
Livestock	0.27 40%	0.41 60%	0.68
Industrial	0.00 0%	19.67 100%	19.67
Mining	0.37 71%	0.15 29%	0.53
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	10.17 26%	28.43 74%	38.60

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Camden	0.44	0.00	0.44
Pine Apple Waterworks	0.00	0.00	0.00
Town of Orrville	0.02	0.00	0.02
Marion (City of) Water Dept.	0.61	0.00	0.61
Millers Ferry WA	0.09	0.00	0.09
Pine Hill Water Dept.	0.00	0.93	0.93
Thomasville WW&SB	0.00	1.03	1.03
Uniontown Utilities Bd.	0.80	0.00	0.80
West Dallas WA	0.21	0.00	0.21
Wilcox Co. Water System	0.30	0.00	0.30

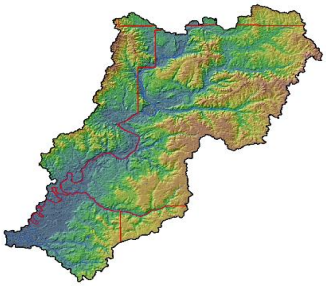


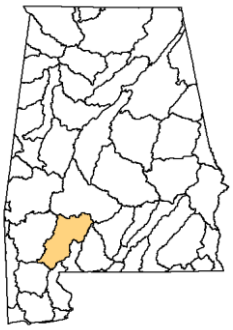
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	19.67	19.67				

Subbasin number - Subbasin name

03150204-Lower Alabama





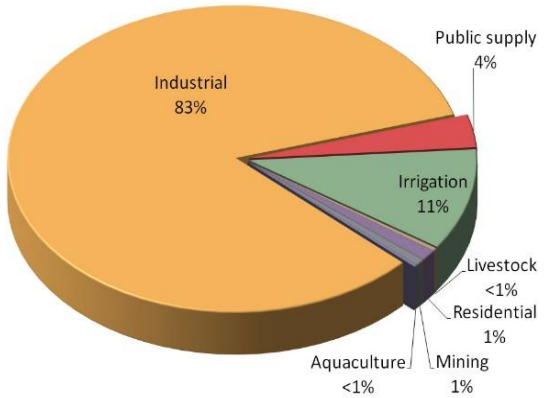
Area (Thousand Acres)	1,450
Estimated Population (2015)	25,459
Subregion:	Alabama

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	2.06 100%	0.00 0%	2.06
Residential	0.69 100%	0.00 0%	0.69
Irrigation	5.43 86%	0.91 14%	6.34
Aquaculture	0.06 43%	0.09 57%	0.15
Livestock	0.08 40%	0.11 60%	0.19
Industrial	0.12 0%	49.31 100%	49.44
Mining	0.39 100%	0.00 0%	0.39
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	8.83 15%	50.42 85%	59.25

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Beatrice Water System	0.10	0.00	0.10
Monroeville	1.00	0.00	1.00
Uriah Water System	0.26	0.00	0.26
Frisco City Water Works Bd.	0.26	0.00	0.26
Huxford W&FPA	0.06	0.00	0.06
Southwest Alabama WA	0.39	0.00	0.39



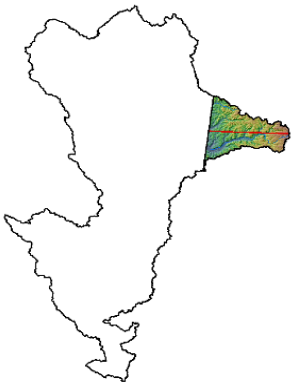
Withdrawals by North American Industry Classification, in MGD

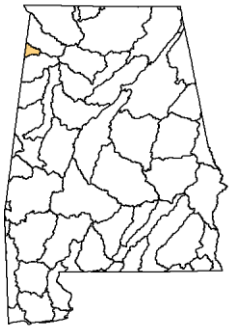
Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	49.30	49.30
Veneer, Ply, & Eng Wood Man	0.12	0.01	0.14

Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160101-Upper Tombigbee





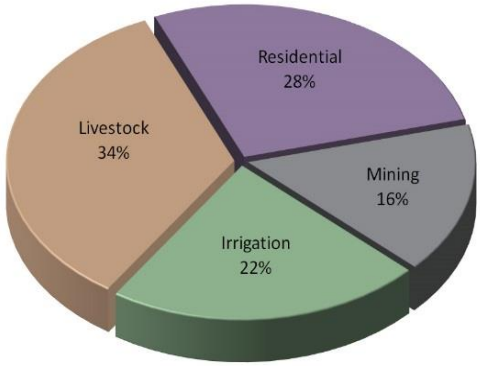
Area (Thousand Acres)	125
Estimated Population (2015)	2,698
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	0.00 0%	0.00
Residential	0.08 100%	0.00 0%	0.08
Irrigation	0.01 15%	0.06 85%	0.07
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.04 43%	0.06 57%	0.10
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.03 69%	0.01 31%	0.05
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.17 57%	0.13 43%	0.29

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total

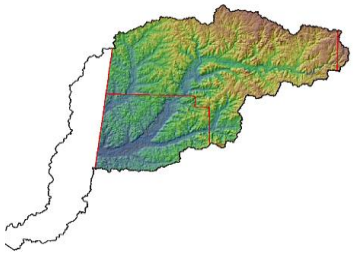


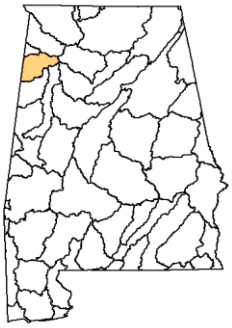
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160103-Buttahatchee





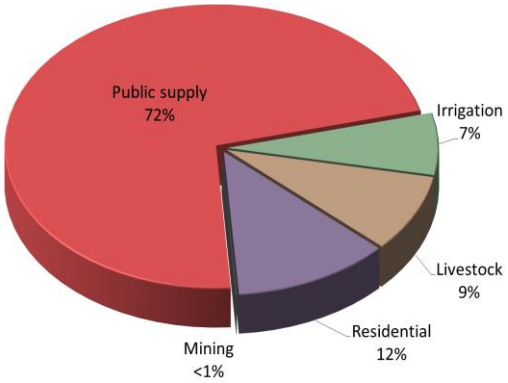
Area (Thousand Acres)	666
Estimated Population (2015)	23,219
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.59 23%	2.03 77%	2.62
Residential	0.44 100%	0.00 0%	0.44
Irrigation	0.07 28%	0.19 72%	0.26
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.14 43%	0.18 57%	0.32
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.24 34%	2.40 66%	3.63

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Sulligent	0.34	0.00	0.34
Detroit Water Dept.	0.03	0.00	0.03
Guin Water Dept.	0.00	0.67	0.67
Hamilton WW&SB	0.00	1.36	1.36
Hodges Water Dept.	0.22	0.00	0.22

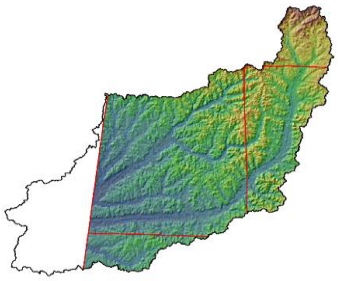


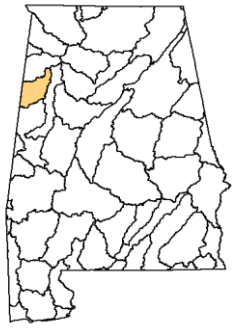
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160105-Luxapallila





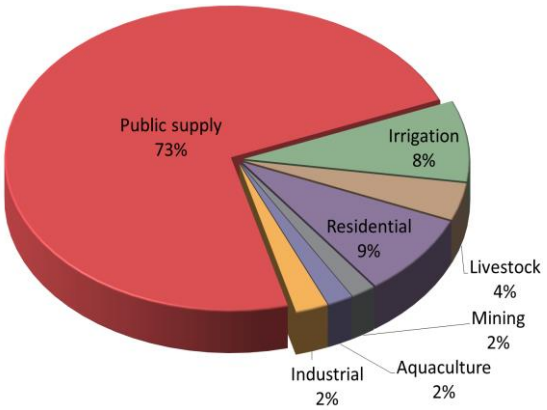
Area (Thousand Acres)	662
Estimated Population (2015)	20,222
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.50 47%	1.66 53%	3.16
Residential	0.38 100%	0.00 0%	0.38
Irrigation	0.01 2%	0.36 98%	0.37
Aquaculture	0.04 44%	0.04 56%	0.08
Livestock	0.08 45%	0.09 55%	0.17
Industrial	0.10 100%	0.00 0%	0.10
Mining	0.00 0%	0.08 100%	0.08
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.10 48%	2.24 52%	4.34

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Kennedy Water System	0.19	0.00	0.19
Millport	0.17	0.00	0.17
Vernon Water & Sewer	0.69	0.00	0.69
Fayette Water Bd.	0.00	1.24	1.24
Twin WA	0.06	0.00	0.06
Winfield WW&SB	0.39	0.42	0.81

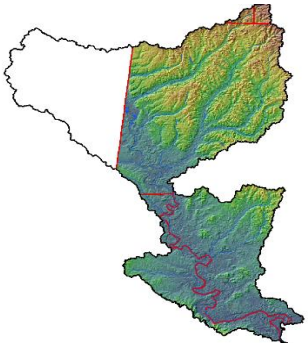


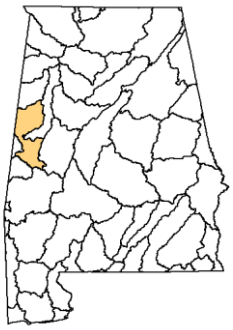
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Sawmills & Wood Preservation	0.10	0.00	0.10				

Subbasin number - Subbasin name

03160106-Middle Tombigbee-Lubbub





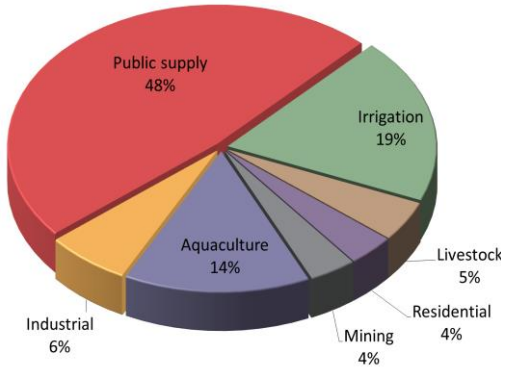
Area (Thousand Acres)	1,272
Estimated Population (2015)	23,447
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	4.30 100%	0.00 0%	4.30
Residential	0.32 100%	0.00 0%	0.32
Irrigation	0.10 6%	1.61 94%	1.72
Aquaculture	0.57 44%	0.71 56%	1.28
Livestock	0.20 48%	0.22 52%	0.42
Industrial	0.01 1%	0.58 99%	0.58
Mining	0.22 67%	0.11 33%	0.32
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.72 64%	3.23 36%	8.95

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Gordo	0.37	0.00	0.37
Town of Forkland	0.07	0.00	0.07
Aliceville Water and Sewer Bd.	1.14	0.00	1.14
Eutaw Water Dept.	0.62	0.00	0.62
Livingston Utility Bd.	0.60	0.00	0.60
Pickens Co. WA	1.19	0.00	1.19
Reform Water and Sewer Bd.	0.30	0.00	0.30



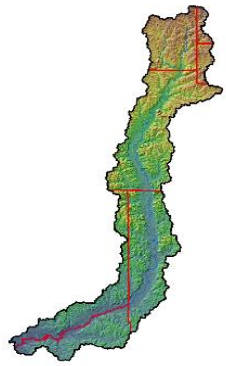
Withdrawals by North American Industry Classification, in MGD

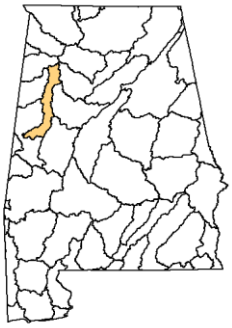
Industry Group	GW	SW	Total
Sawmills & Wood Preservation	0.01	0.00	0.01
Veneer, Ply, & Eng Wood Man	0.00	0.58	0.58

Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160107-Sipsey





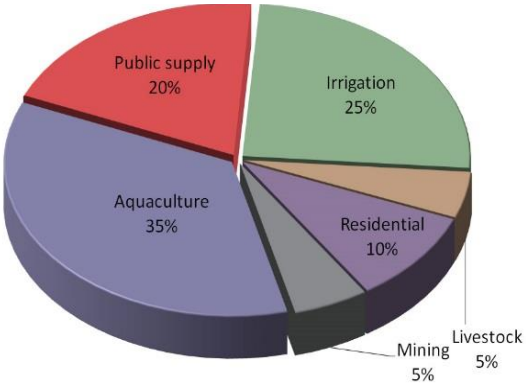
Area (Thousand Acres)	787
Estimated Population (2015)	22,212
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.95 100%	0.00 0%	0.95
Residential	0.46 100%	0.00 0%	0.46
Irrigation	0.25 21%	0.94 79%	1.20
Aquaculture	0.76 45%	0.93 55%	1.69
Livestock	0.10 45%	0.13 55%	0.23
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 2%	0.25 98%	0.25
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.53 53%	2.25 47%	4.78

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Brilliant	0.09	0.00	0.09
Glen Allen Water System	0.05	0.00	0.05
Buhl, Elrod and Holman WA	0.35	0.00	0.35
Eldridge Water Dept.	0.46	0.00	0.46

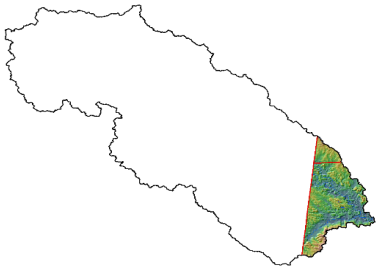


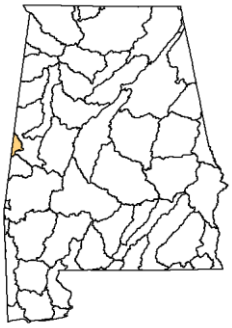
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160108-Noxubee





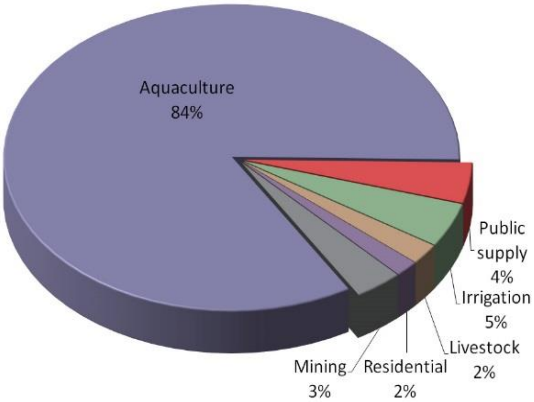
Area (Thousand Acres)	139
Estimated Population (2015)	1,217
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.26 100%	0.00 0%	0.26
Residential	0.10 100%	0.00 0%	0.10
Irrigation	0.24 85%	0.04 15%	0.29
Aquaculture	2.35 45%	2.84 55%	5.19
Livestock	0.05 41%	0.08 59%	0.13
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.14 68%	0.07 32%	0.21
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.16 51%	3.03 49%	6.19

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Sumter Co. WA	0.26	0.00	0.26

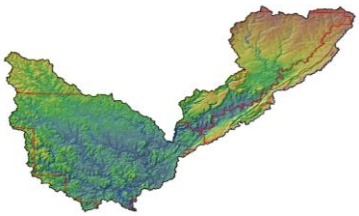


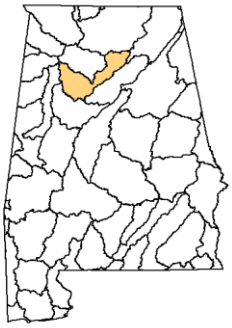
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160109-Mulberry Fork





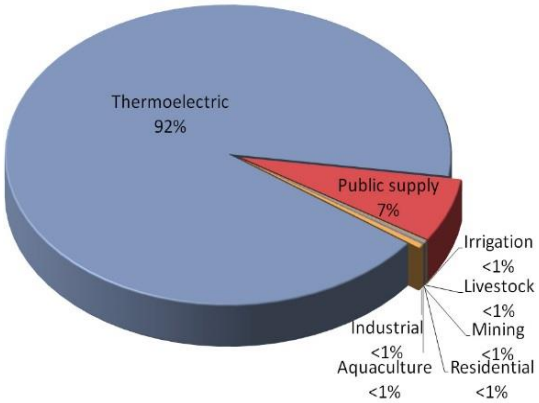
Area (Thousand Acres)	1,371
Estimated Population (2015)	124,602
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.41 1%	49.09 99%	49.50
Residential	0.77 100%	0.00 0%	0.77
Irrigation	0.24 23%	0.82 77%	1.06
Aquaculture	0.00 2%	0.04 98%	0.05
Livestock	0.62 49%	0.64 51%	1.27
Industrial	0.73 23%	2.43 77%	3.17
Mining	0.16 30%	0.38 70%	0.54
Thermoelectric	0.00 0%	664.34 100%	664.34
Totals	2.94 0%	717.74 100%	720.68

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Birmingham WWB	0.00	25.82	25.82
Blount Co. WA	0.00	2.07	2.07
Blountsville Utility Bd.	0.10	0.00	0.10
Cullman Utilities Bd.	0.00	11.70	11.70
Hanceville Water and Sewer Bd.	0.31	0.00	0.31
Jasper WW&SB	0.00	9.49	9.49



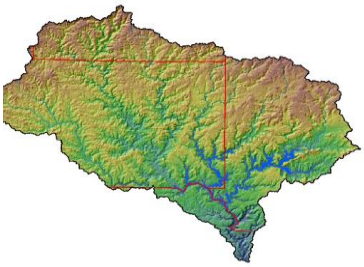
Withdrawals by North American Industry Classification, in MGD

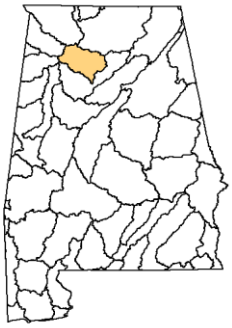
Industry Group	GW	SW	Total
Animal Food Man	0.00	0.19	0.19
Animal Slaughtering & Process	0.00	1.23	1.23
Elect Pwr Gen, Trans & Dist	0.00	664.34	664.34
Veneer, Ply, & Eng Wood Man	0.73	1.01	1.75

Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160110-Sipsey Fork





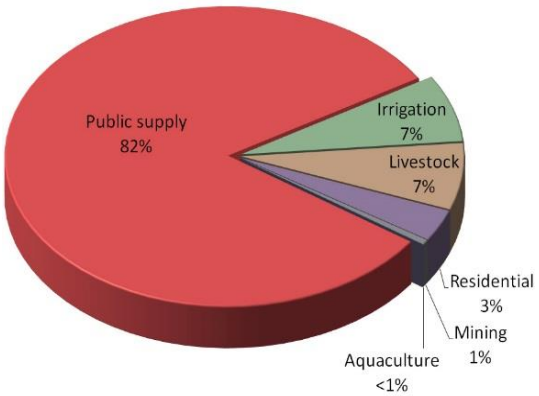
Area (Thousand Acres)	996
Estimated Population (2015)	53,091
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	12.09 100%	12.09
Residential	0.51 100%	0.00 0%	0.51
Irrigation	0.13 12%	0.95 88%	1.08
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.52 49%	0.54 51%	1.06
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.05 64%	0.03 36%	0.07
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.20 8%	13.61 92%	14.81

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Arley Water Works	0.00	0.81	0.81
Birmingham WWB	0.00	11.28	11.28

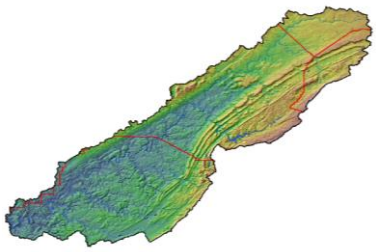


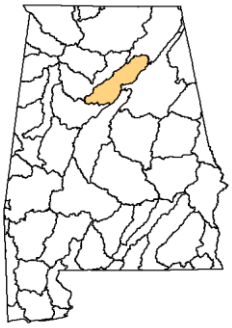
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160111-Locust Fork





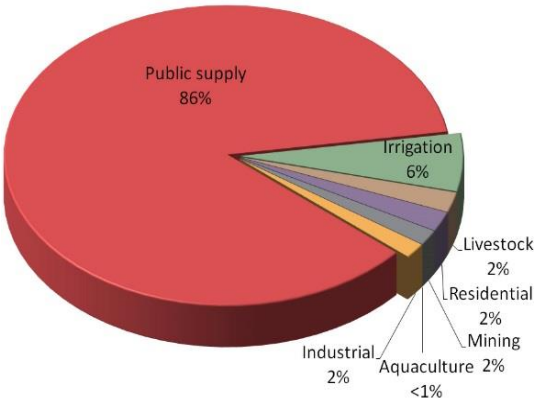
Area (Thousand Acres)	1,209
Estimated Population (2015)	309,650
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	3.13 8%	34.84 92%	37.97
Residential	0.93 100%	0.00 0%	0.93
Irrigation	0.31 11%	2.46 89%	2.76
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.45 47%	0.50 53%	0.95
Industrial	0.71 100%	0.00 0%	0.71
Mining	0.48 66%	0.25 34%	0.72
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	6.01 14%	38.04 86%	44.05

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Allgood Water Works	0.00	0.07	0.07
Altoona Water & Sewer	0.14	0.00	0.14
Birmingham WWB	0.00	33.88	33.88
Cleveland Water Works	0.30	0.00	0.30
Snead Water Works	0.19	0.00	0.19
Walnut Grove Water Works	0.08	0.00	0.08
Blountsville Utility Bd.	0.47	0.00	0.47
Nectar Water Dept.	0.02	0.00	0.02
Oneonta Utilities Bd.	1.57	0.89	2.45
West Etowah Co. WA	0.37	0.00	0.37

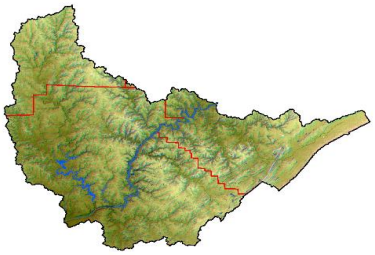


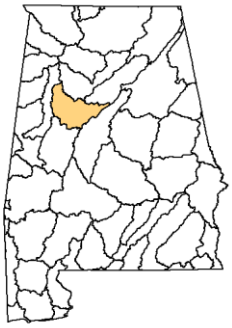
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Steel Prod Man from Pur Steel	0.71	0.00	0.71				

Subbasin number - Subbasin name

03160112-Upper Black Warrior





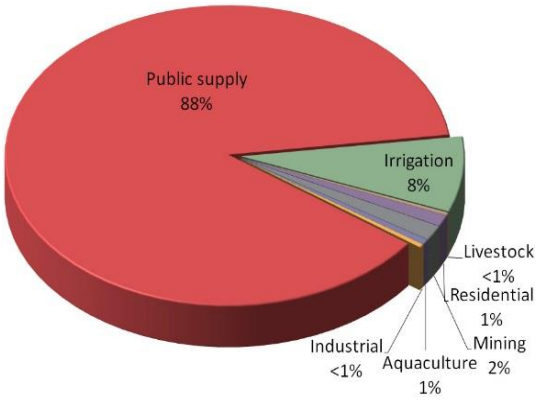
Area (Thousand Acres)	1,245
Estimated Population (2015)	268,796
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.70 1%	46.42 99%	47.13
Residential	0.67 100%	0.00 0%	0.67
Irrigation	0.74 17%	3.63 83%	4.37
Aquaculture	0.13 42%	0.18 58%	0.31
Livestock	0.07 43%	0.09 57%	0.16
Industrial	0.20 100%	0.00 0%	0.20
Mining	0.17 20%	0.69 80%	0.86
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.69 5%	51.01 95%	53.70

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Berry	0.00	0.40	0.40
Northport Water Works	0.00	4.09	4.09
Governmental Utility Service Corp.	0.00	12.06	12.06
Tuscaloosa W&SD	0.00	26.66	26.66
Warrior River WA	0.70	3.20	3.91

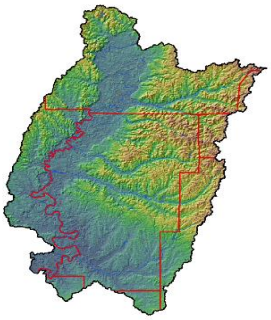


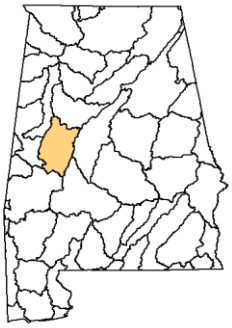
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Petro & Coal Products Man	0.20	0.00	0.20				

Subbasin number - Subbasin name

03160113-Lower Black Warrior





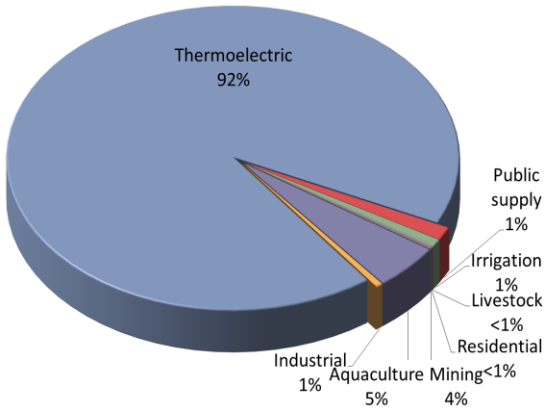
Area (Thousand Acres)	1,452
Estimated Population (2015)	120,588
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	5.71 100%	0.00 0%	5.71
Residential	0.68 100%	0.00 0%	0.68
Irrigation	1.50 48%	1.61 52%	3.11
Aquaculture	10.51 53%	9.26 47%	19.77
Livestock	0.20 45%	0.24 55%	0.45
Industrial	1.37 67%	0.67 33%	2.04
Mining	0.12 33%	0.25 67%	0.37
Thermoelectric	0.00 0%	377.42 100%	377.42
Totals	20.09 5%	389.46 95%	409.55

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Faunsdale	0.03	0.00	0.03
Moundville Water Works	0.51	0.00	0.51
Coker WA	0.34	0.00	0.34
Demopolis Water & Sewer Bd.	1.19	0.00	1.19
Eutaw Water Dept.	0.31	0.00	0.31
Fayetteville WA	0.35	0.00	0.35
Fosters-Ralph WA, Inc.	0.08	0.00	0.08
Greene Co. Sewer & Water	0.31	0.00	0.31
Greensboro Utilities Bd.	0.71	0.00	0.71
Hale Co. WA	1.88	0.00	1.88

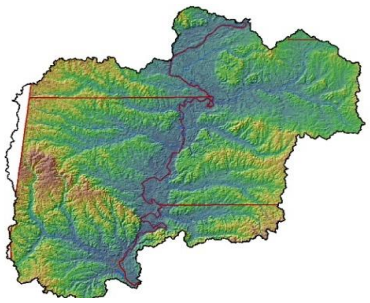


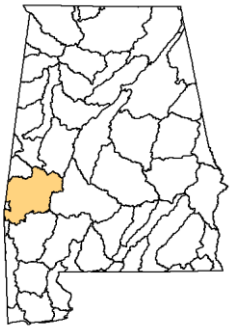
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.02	377.42	377.45
Lum & Otr Const Matls Wholeslrs	0.02	0.00	0.02
Petro & Coal Products Man	1.32	0.50	1.82
Rubber Product Man	0.00	0.18	0.18

Subbasin number - Subbasin name

03160201-Middle Tombigbee-Chickasaw





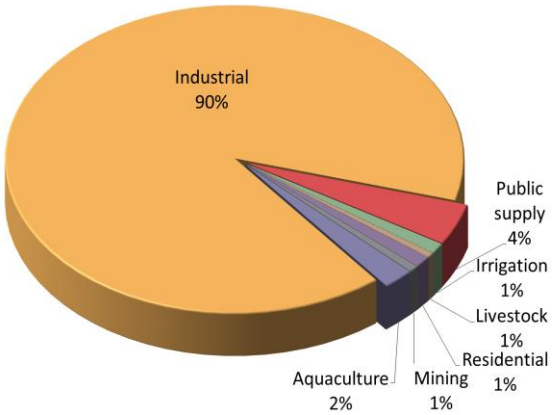
Area (Thousand Acres)	2,043
Estimated Population (2015)	33,975
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	3.28 100%	0.00 0%	3.28
Residential	0.89 100%	0.00 0%	0.89
Irrigation	0.27 32%	0.57 68%	0.84
Aquaculture	0.73 44%	0.94 56%	1.67
Livestock	0.16 42%	0.23 58%	0.39
Industrial	0.00 0%	67.93 100%	67.93
Mining	0.38 75%	0.13 25%	0.51
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	5.72 8%	69.80 92%	75.52

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Myrtlewood Water System	0.23	0.00	0.23
Sweet Water Water System	0.03	0.00	0.03
Town of Butler	0.30	0.00	0.30
Demopolis Water & Sewer Bd.	0.71	0.00	0.71
Gilbertown Utilities Bd.	0.43	0.00	0.43
Linden Utilities Bd.	0.39	0.00	0.39
North Choctaw WA	0.29	0.00	0.29
Pennington Utilities Bd.	0.18	0.00	0.18
Sumter Co. WA	0.53	0.00	0.53
Thomaston Water & Gas Bd.	0.19	0.00	0.19

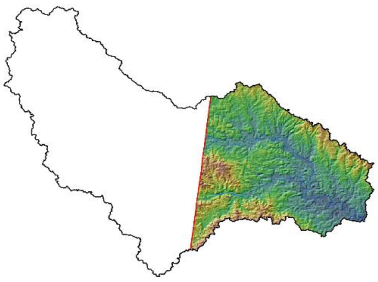


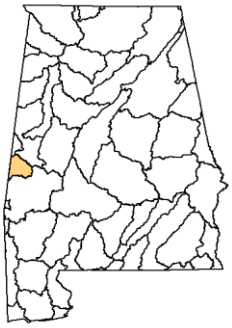
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03160202-Sucarnoochee





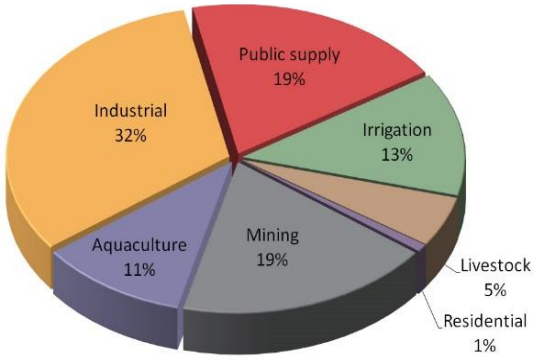
Area (Thousand Acres)	382
Estimated Population (2015)	6,329
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.67 100%	0.00 0%	0.67
Residential	0.03 100%	0.00 0%	0.03
Irrigation	0.21 45%	0.26 55%	0.46
Aquaculture	0.17 44%	0.21 56%	0.38
Livestock	0.08 40%	0.11 60%	0.19
Industrial	0.00 0%	1.12 100%	1.12
Mining	0.44 68%	0.21 32%	0.65
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.59 46%	1.90 54%	3.49

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
City of York	0.67	0.00	0.67

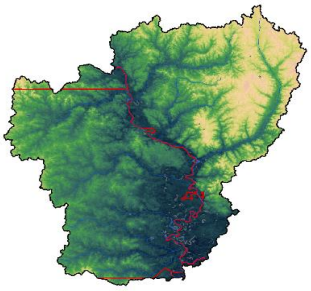


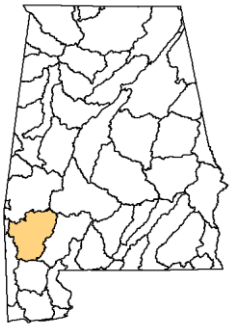
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Pulp, Paper, & Paperboard Mills	0.00	67.93	67.93				

Subbasin number - Subbasin name

03160203-Lower Tombigbee





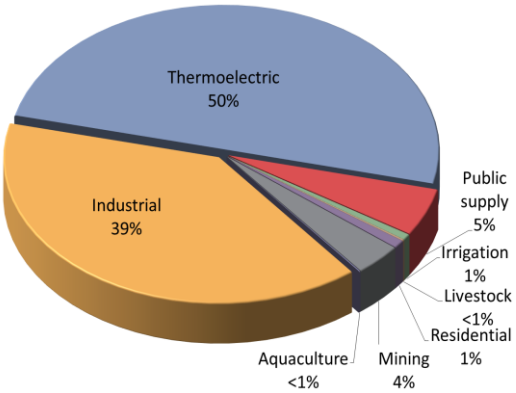
Area (Thousand Acres)	1,615
Estimated Population (2015)	31,676
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	4.15 98%	0.08 2%	4.23
Residential	0.70 100%	0.00 0%	0.70
Irrigation	0.24 46%	0.28 54%	0.51
Aquaculture	0.00 0%	0.08 100%	0.08
Livestock	0.06 43%	0.08 57%	0.14
Industrial	5.83 19%	25.56 81%	31.39
Mining	2.84 100%	0.00 0%	2.84
Thermoelectric	0.00 0%	39.94 100%	39.94
Totals	13.82 17%	66.01 83%	79.83

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Coffeeville Utilities	0.15	0.00	0.15
Millry Water Works	0.12	0.00	0.12
South Alabama Utilities	0.31	0.00	0.31
St. Stephens Water System	0.08	0.00	0.08
Chatom Utilities Bd.	0.29	0.00	0.29
Frankville W&FPA	0.09	0.00	0.09
Jackson Water and Sewer Bd.	1.17	0.08	1.25
Leroy WA	0.13	0.00	0.13
McIntosh W&FPA	0.42	0.00	0.42
Old Line WA	0.37	0.00	0.37
Utilities Bd. of Fulton	0.12	0.00	0.12
Utilities Bd. of Grove Hill	0.69	0.00	0.69
Washington Co. WA	0.21	0.00	0.21



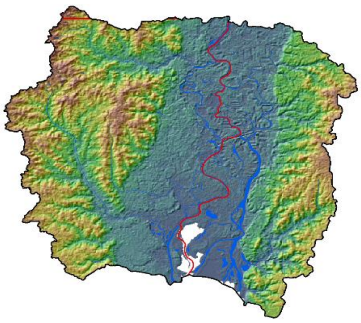
Withdrawals by North American Industry Classification, in MGD

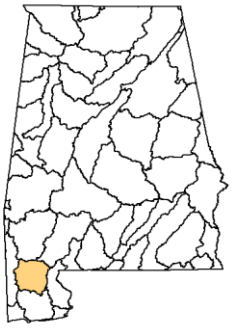
Industry Group	GW	SW	Total
Lum & Otr Const Matls Wholeslrs	0.00	1.12	1.12
Basic Chemical Manufact	4.37	0.00	4.37
Elect Pwr Gen, Trans & Dist	0.00	39.94	39.94
Lum & Otr Const Matls Wholeslrs	0.00	0.41	0.41

Industry Group	GW	SW	Total
Paint, Coat, & Adhsv Man	1.46	3.42	4.88
Pulp, Paper, & Paperboard Mills	0.00	21.73	21.73
Warehousing & Storage	0.00	0.00	0.00

Subbasin number - Subbasin name

03160204-Mobile-Tensaw





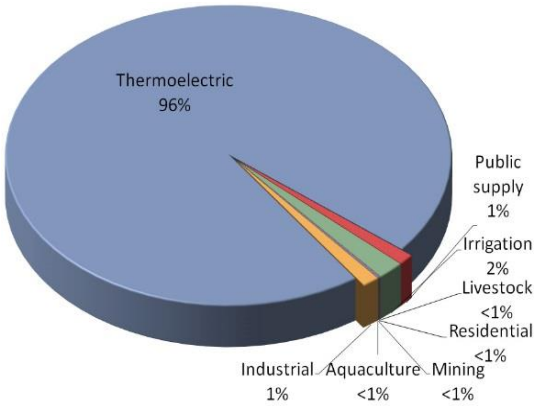
Area (Thousand Acres)	912
Estimated Population (2015)	180,518
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	8.22 100%	0.00 0%	8.22
Residential	1.28 100%	0.00 0%	1.28
Irrigation	11.61 82%	2.57 18%	14.18
Aquaculture	0.01 42%	0.01 58%	0.02
Livestock	0.06 44%	0.07 56%	0.13
Industrial	5.43 60%	3.61 40%	9.04
Mining	0.12 100%	0.00 0%	0.12
Thermoelectric	0.00 0%	693.70 100%	693.70
Totals	26.73 4%	699.97 96%	726.69

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Le Moyne Water System, Inc.	0.40	0.00	0.40
Mount Vernon	0.16	0.00	0.16
North Baldwin Utilities	0.59	0.00	0.59
Saraland Water System	1.52	0.00	1.52
Satsuma	0.52	0.00	0.52
South Alabama Utilities	1.38	0.00	1.38
Spanish Fort Water System	0.21	0.00	0.21
Daphne Utilities Bd.	2.11	0.00	2.11
Kushla WD	0.47	0.00	0.47
MCB WA, Inc.	0.18	0.00	0.18
Mobile Bd. of W&S Comm.	0.00	0.00	
St. Elmo - Irvington WA	0.32	0.00	0.32
Turnerville W&FPD	0.36	0.00	0.36

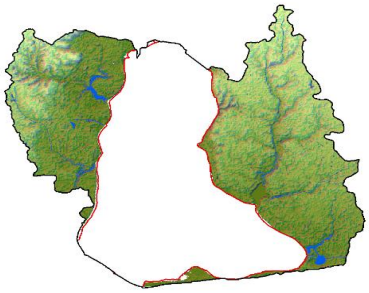


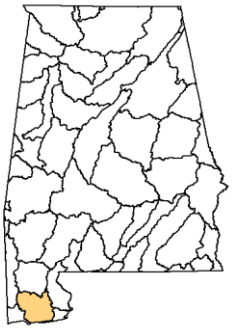
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Basic Chemical Manufact	1.03	0.00	1.03	Otr Support Activities for Trans	0.02	0.00	0.02
Elect Pwr Gen, Trans & Dist	0.00	693.70	693.70	Paint, Coat, & Adhsv Man	1.75	0.00	1.75
Fabric Mills	1.30	0.00	1.30	Pest, Fert, & Otr Ag Chem Man	0.51	0.00	0.51
Iron & Steel Mills & Ferro Man	0.26	3.61	3.87	Petro & Coal Products Man	0.57	0.00	0.57

Subbasin number - Subbasin name

03160205-Mobile Bay





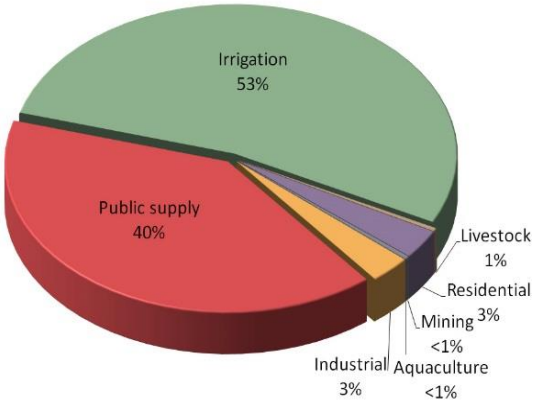
Area (Thousand Acres)	872
Estimated Population (2015)	260,675
Subregion:	Mobile-Tombigbee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	14.35 100%	0.00 0%	14.35
Residential	1.12 100%	0.00 0%	1.12
Irrigation	14.35 75%	4.68 25%	19.03
Aquaculture	0.01 46%	0.02 54%	0.03
Livestock	0.05 44%	0.07 56%	0.12
Industrial	1.06 100%	0.00 0%	1.06
Mining	0.10 100%	0.00 0%	0.10
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	31.05 87%	4.77 13%	35.82

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Belforest Water System	0.77	0.00	0.77
Fairhope	4.53	0.00	4.53
Loxley	0.46	0.00	0.46
Riviera Utilities	0.78	0.00	0.78
Robertsdale	0.27	0.00	0.27
Silverhill	0.13	0.00	0.13
Daphne Utilities Bd.	0.23	0.00	0.23
Gulf Shores Utilities Bd.	2.96	0.00	2.96
Mobile Co. WS&FPA	3.03	0.00	3.03
Orange Beach WS&FP	0.87	0.00	0.87
St. Elmo - Irvington WA	0.32	0.00	0.32

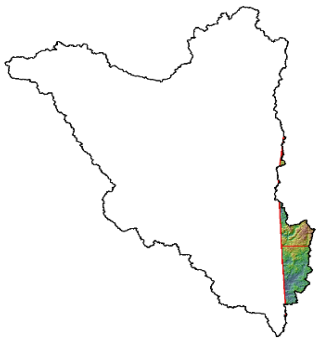


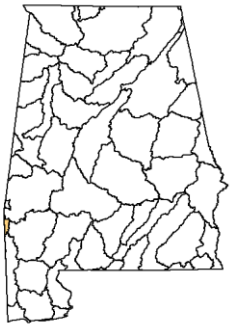
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Basic Chemical Manufact	0.96	0.00	0.96				
Utility System Construction	0.10	0.00	0.10				

Subbasin number - Subbasin name

03170002-Upper Chickasawhay





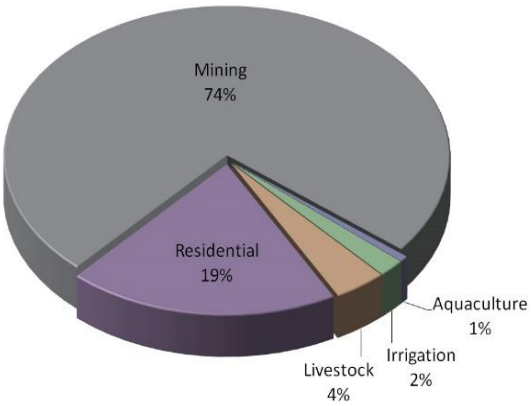
Area (Thousand Acres)	65
Estimated Population (2015)	1,014
Subregion:	Pascagoula

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	0.00 0%	0.00
Residential	0.03 100%	0.00 0%	0.03
Irrigation	0.00 0%	0.00 0%	0.00
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.00 0%	0.00 0%	0.00
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.12 100%	0.00 0%	0.12
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.15 100%	0.00 0%	0.15

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total

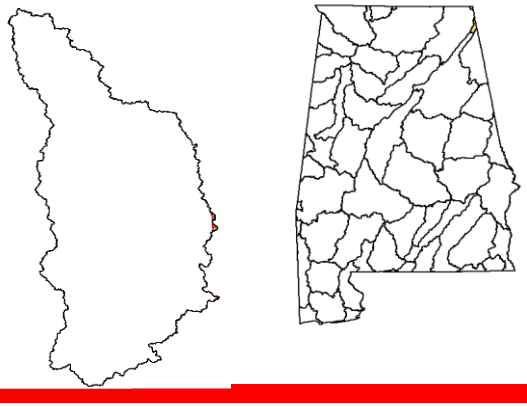


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03170003-Lower Chickasawhay



Area (Thousand Acres)	1
Estimated Population (2015)	6
Subregion:	Pascagoula

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	0.00 0%	0.00
Residential	0.00 0%	0.00 0%	0.00
Irrigation	0.00 0%	0.00 0%	0.00
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.00 0%	0.00 0%	0.00
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.00 0%	0.00 0%	0.00

Withdrawals by Public Supplier, in MGD

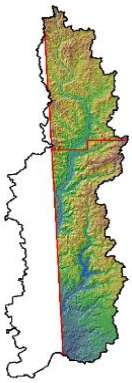
System Name	GW	SW	Total

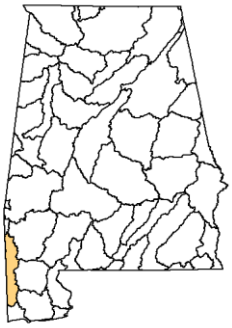
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03170008-Escatawpa





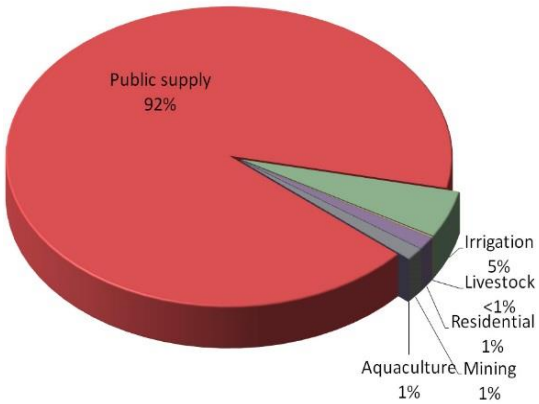
Area (Thousand Acres)	703
Estimated Population (2015)	73,337
Subregion:	Pascagoula

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	4.83 8%	52.64 92%	57.47
Residential	0.85 100%	0.00 0%	0.85
Irrigation	2.34 74%	0.82 26%	3.16
Aquaculture	0.00 0%	0.01 0%	0.01
Livestock	0.04 44%	0.05 56%	0.09
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.84 100%	0.00 0%	0.84
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	8.90 14%	53.53 86%	62.43

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
South Alabama Utilities	3.67	0.00	3.67
Deer Park and Vinegar Bend W&FPA	0.10	0.00	0.10
Grand Bay Water Works Bd.	0.87	0.00	0.87
Mobile Bd. of W&S Comm.	0.00	52.64	52.64
St. Elmo - Irvington WA	0.18	0.00	0.18

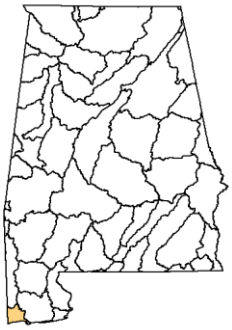


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

03170009-Mississippi Coastal



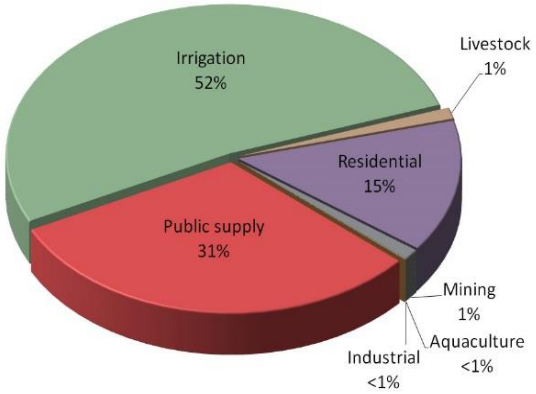
Area (Thousand Acres)	320
Estimated Population (2015)	12,711
Subregion:	Pascagoula

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.16 100%	0.00 0%	1.16
Residential	0.53 100%	0.00 0%	0.53
Irrigation	1.70 88%	0.23 12%	1.93
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.02 43%	0.03 57%	0.04
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.04 100%	0.00 0%	0.04
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	3.45 93%	0.26 7%	3.71

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Bayou La Batre Utilities Bd.	0.59	0.00	0.59
Dauphin Island W&SA	0.57	0.00	0.57

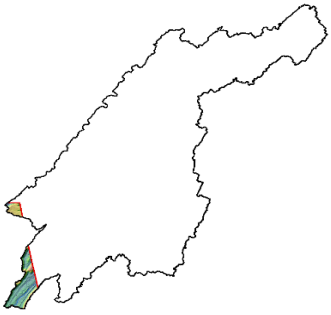


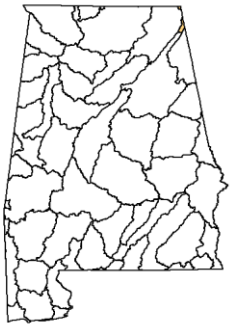
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Seafood Product Prep & Pkg	0.00	0.00	0.00				

Subbasin number - Subbasin name

06020001-Middle Tennesse-Chickamauga





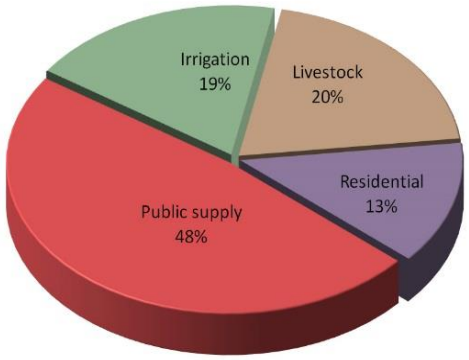
Area (Thousand Acres)	53
Estimated Population (2015)	2,747
Subregion:	Middle-Tennessee-HiWassee

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.30 100%	0.00 0%	0.30
Residential	0.08 100%	0.00 0%	0.08
Irrigation	0.03 26%	0.09 74%	0.12
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.06 47%	0.07 53%	0.13
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.48 76%	0.15 24%	0.63

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Valley Head Water Works Bd.	0.30	0.00	0.30

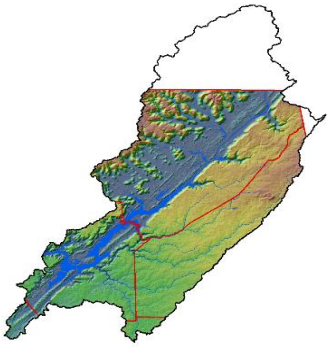


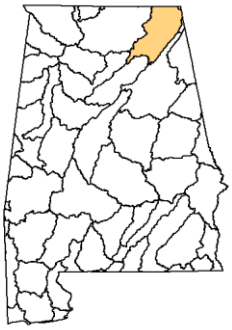
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

06030001-Guntersville Lake





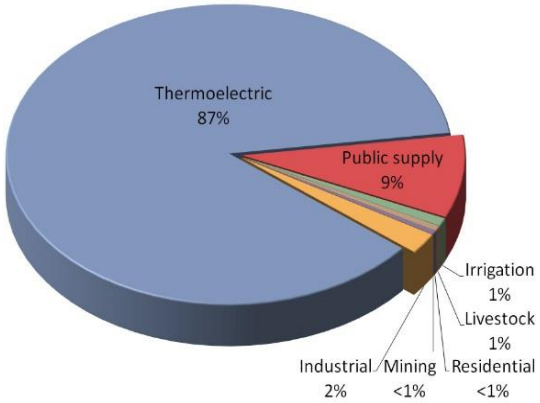
Area (Thousand Acres)	1,647
Estimated Population (2015)	148,391
Subregion:	Middle-Tennessee-Elk

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	3.84 11%	32.53 89%	36.37
Residential	1.65 100%	0.00 0%	1.65
Irrigation	0.91 25%	2.68 75%	3.60
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	1.09 47%	1.22 53%	2.30
Industrial	0.08 1%	9.10 99%	9.18
Mining	0.02 80%	0.00 20%	0.02
Thermoelectric	0.00 0%	352.22 100%	352.22
Totals	7.58 2%	397.76 98%	405.34

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
North Marshall Utilities	0.00	1.51	1.51
Pisgah	0.12	0.00	0.12
Albertville Municipal Utilities Bd.	0.00	10.41	10.41
Arab Water Works Bd.	0.31	4.59	4.90
Bridgeport Utilities Bd.	0.00	1.70	1.70
Crossville Water Bd.	0.02	0.00	0.02
Dekalb-Jackson WSD	0.00	1.32	1.32
Douglas WA	2.36	0.00	2.36
Fort Payne Water Works Bd.	0.00	0.77	0.77
Guntersville WW&SB	0.64	2.76	3.40
Northeast Alabama WS&FPA	0.00	1.98	1.98
Scottsboro Water Bd.	0.00	4.42	4.42
Section & Dutton Water Bds.	0.00	3.07	3.07
Stevenson Utilities Bd.	0.39	0.00	0.39

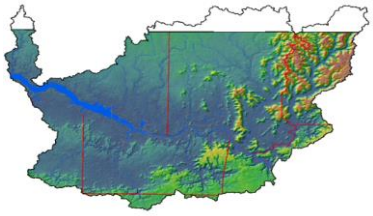


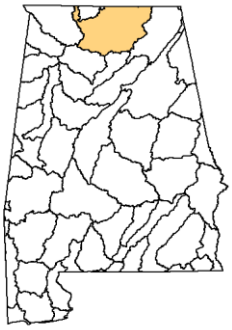
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total
Elect Pwr Gen, Trans & Dist	0.00	352.22	352.22				
Grain & Oilseed Milling	0.08	0.00	0.08				
Pulp, Paper, & Paperboard Mills	0.00	9.10	9.10				

Subbasin number - Subbasin name

06030002-Wheeler Lake





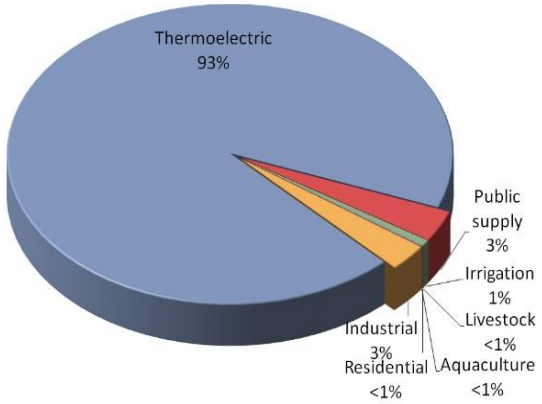
Area (Thousand Acres)	2,664
Estimated Population (2015)	591,583
Subregion:	Middle-Tennessee-Elk

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	33.50 32%	69.63 68%	103.13
Residential	2.32 100%	0.00 0%	2.32
Irrigation	7.27 38%	11.82 62%	19.09
Aquaculture	0.01 66%	0.00 34%	0.01
Livestock	1.02 45%	1.24 55%	2.26
Industrial	0.01 0%	88.88 100%	88.89
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	2,852.82 100%	2,852.82
Totals	44.12 1%	3,024.39 99%	3,068.51

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Ardmore Water System	0.39	0.00	0.39
Decatur Utilities	0.00	25.61	25.61
Madison Utilities	7.09	0.00	7.09
Redstone Arsenal	0.00	3.55	3.55
Swan Creek Community	0.04	0.00	0.04
Harvest-Monrovia WA	6.20	0.00	6.20
Huntsville Utilities Water Dept.	8.21	34.65	42.86
Limestone Co. WA	2.15	0.00	2.15
Madison Co. Water Dept.	7.54	0.00	7.54
Owens Cross Roads WA	1.24	0.00	1.24
Rogersville Water & Sewer Bd.	0.64	0.00	0.64
West Morgan East Lawrence W&SA	0.00	5.82	5.82

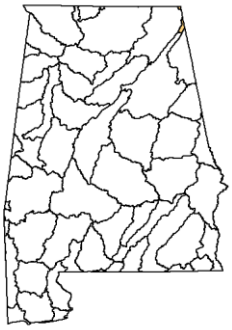


Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Basic Chemical Manufact	0.01	81.64	81.65
Elect Pwr Gen, Trans & Dist	0.00	2,852.82	2,852.82
Otr Nonmetallic Min Prod Man	0.00	0.55	0.55
Plastics Product Man	0.00	6.69	6.69

Subbasin number - Subbasin name

06030003-Elk



Area (Thousand Acres)	0
Estimated Population (2015)	4
Subregion:	Middle-Tennessee-Elk

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	0.00 0%	0.00
Residential	0.00 0%	0.00 0%	0.00
Irrigation	0.00 0%	0.00 0%	0.00
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.00 0%	0.00 0%	0.00
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	0.00 0%	0.00 0%	0.00

Withdrawals by Public Supplier, in MGD

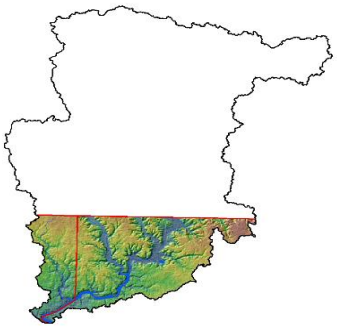
System Name	GW	SW	Total

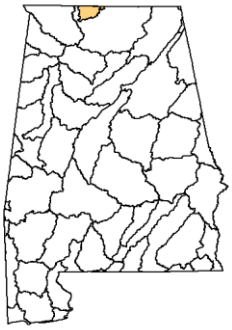
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

06030004-Lower Elk





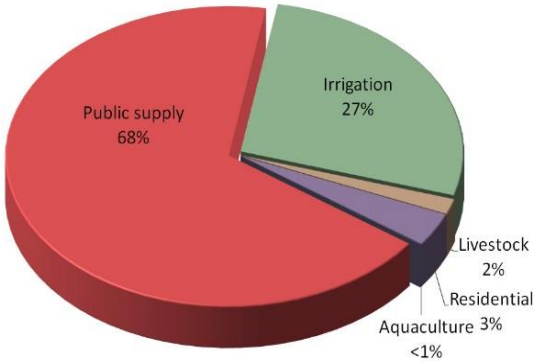
Area (Thousand Acres)	249
Estimated Population (2015)	17,171
Subregion:	Middle-Tennessee-Elk

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	0.00 0%	7.67 100%	7.67
Residential	0.41 100%	0.00 0%	0.41
Irrigation	0.82 27%	2.24 73%	3.07
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.08 43%	0.11 57%	0.19
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.00 0%	0.00 0%	0.00
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	1.31 12%	10.02 88%	11.33

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Athens Utilities	0.00	4.69	4.69
Limestone Co. WA	0.00	2.98	2.98

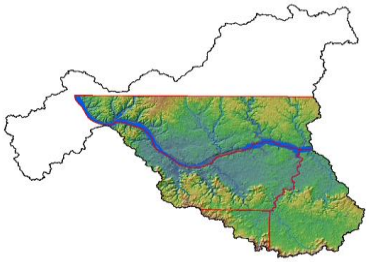


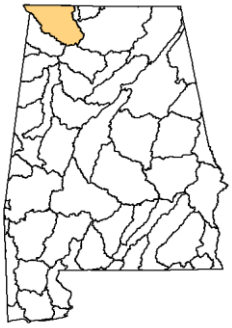
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Subbasin number - Subbasin name

06030005-Pickwick Lake





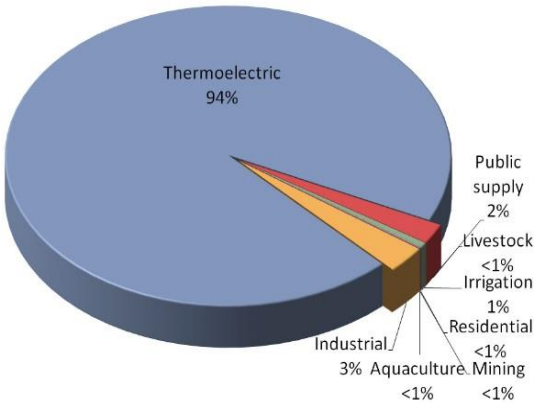
Area (Thousand Acres)	1,411
Estimated Population (2015)	157,076
Subregion:	Middle-Tennessee-Elk

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.81 8%	20.11 92%	21.92
Residential	1.39 100%	0.00 0%	1.39
Irrigation	1.01 21%	3.82 79%	4.83
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.46 43%	0.62 57%	1.08
Industrial	0.00 0%	29.70 100%	29.70
Mining	0.04 69%	0.02 31%	0.06
Thermoelectric	0.00 0%	963.99 100%	963.99
Totals	4.71 0%	1,018.26 100%	1,022.97

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Greenhill Water System	0.21	0.00	0.21
Hawk Pride Mountain Water System	0.38	0.00	0.38
Pluris Alabama, LLC	0.88	0.00	0.88
Sheffield Utilities	0.00	1.74	1.74
Cherokee WW&SB	0.00	0.25	0.25
Colbert Co. Rural Water	0.00	0.72	0.72
Florence W&SD	0.12	10.54	10.66
Leighton Water & Sewer Bd.	0.22	0.00	0.22
Moulton Water Works Bd.	0.00	1.91	1.91
Muscle Shoals Utilities Bd.	0.00	2.98	2.98
Tuscumbia - Water Dept.	0.00	1.97	1.97

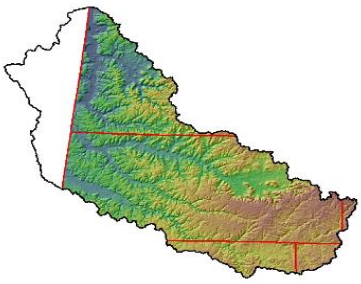


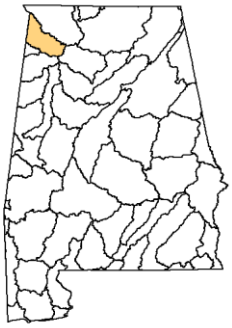
Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total
Arch & Struct Metals Man	0.00	2.05	2.05
Basic Chemical Manufact	0.00	8.50	8.50
Elect Pwr Gen, Trans & Dist	0.00	963.99	963.99
Pest, Fert, & Otr Ag Chem Man	0.00	12.56	12.56
Pulp, Paper, and Paperboard Mills	0.00	6.59	6.59

Subbasin number - Subbasin name

06030006-Bear





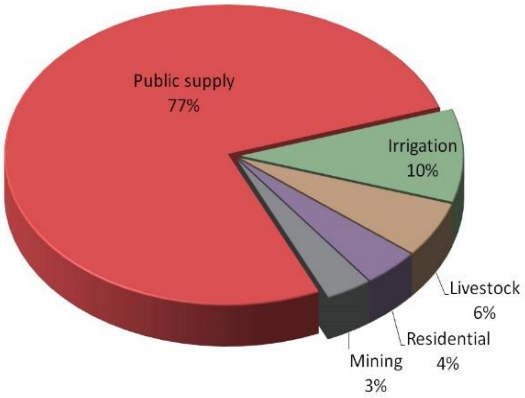
Area (Thousand Acres)	795
Estimated Population (2015)	31,851
Subregion:	Middle-Tennessee-Elk

Withdrawals, in Million Gallons per Day (MGD) and percent (%)

Category	GW	SW	Totals
Public Supply	1.05 12%	7.74 88%	8.79
Residential	0.47 100%	0.00 0%	0.47
Irrigation	0.27 23%	0.89 77%	1.16
Aquaculture	0.00 0%	0.00 0%	0.00
Livestock	0.29 43%	0.39 57%	0.68
Industrial	0.00 0%	0.00 0%	0.00
Mining	0.27 70%	0.12 30%	0.38
Thermoelectric	0.00 0%	0.00 0%	0.00
Totals	2.35 20%	9.13 80%	11.48

Withdrawals by Public Supplier, in MGD

System Name	GW	SW	Total
Franklin Co. Water Service Auth.	0.00	1.16	1.16
Red Bay Water & Gas Bd.	0.79	0.00	0.79
Russellville Water & Sewer Bd.	0.26	3.73	3.99
Upper Bear Creek WS&FPD	0.00	2.85	2.85



Withdrawals by North American Industry Classification, in MGD

Industry Group	GW	SW	Total	Industry Group	GW	SW	Total

Appendix D

Monthly Water Withdrawals, Returns, and Net Demands by County

The following summaries of water-use information display current (2015) withdrawal, returns, and net consumption (net demand) in Million Gallons per Day (MGD) by water use sector for each county in Alabama. The summaries include both population for 2015 and estimated population served by public supply.

For 2015 the tables list the monthly withdrawals and returns by source of water used (surface water [SW] or groundwater [GW]) by county and water use sector. The summaries also include tabular and graphical summaries of total withdrawals and returns and net consumption (net demand) for each county. Numbers may not sum to total withdrawals because of rounding.

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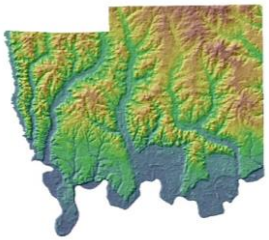
AUTAUGA



Population	55,347
Pop served by public supply	48,998

2015 Demands

Withdrawals

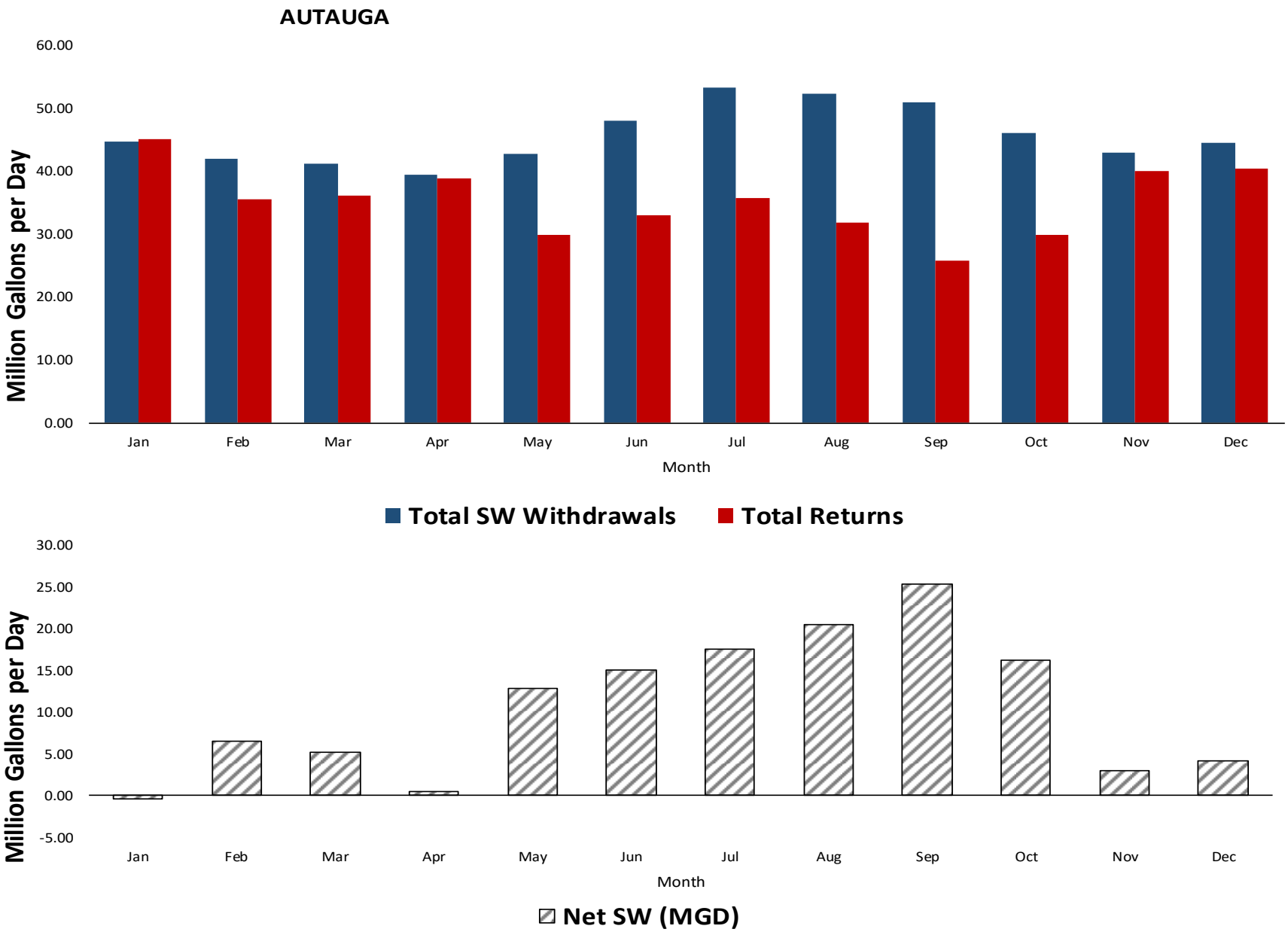
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.52	3.17	3.12	3.37	4.41	4.65	4.77	5.04	4.72	4.12	3.72	3.69	4.03
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	3.43	3.38	3.33	3.31	3.29	3.33	3.29	3.04	2.94	3.02	3.03	3.33	3.23
Industrial/Mining	SW	34.35	32.21	33.28	31.59	28.93	33.33	36.37	35.66	35.04	35.15	32.95	34.04	33.59
Thermoelectric	SW	10.15	9.62	7.82	7.67	13.42	14.43	16.49	16.22	15.49	10.61	9.84	10.41	11.86
Agriculture	GW	1.54	1.95	2.28	2.75	3.84	5.18	5.38	5.23	4.44	4.01	2.61	2.02	3.44
Agriculture	SW	0.14	0.13	0.15	0.23	0.32	0.36	0.37	0.43	0.42	0.36	0.16	0.13	0.27
Total	**GW**	**8.50**	**8.50**	**8.73**	**9.42**	**11.55**	**13.16**	**13.44**	**13.31**	**12.09**	**11.15**	**9.36**	**9.04**	**10.70**
Total	**SW**	**44.65**	**41.96**	**41.25**	**39.48**	**42.67**	**48.12**	**53.22**	**52.31**	**50.95**	**46.12**	**42.94**	**44.58**	**45.72**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.62	1.61	1.65	1.67	1.53	1.83	1.62	1.29	1.16	1.08	1.54	1.83	1.53
Industrial/Mining		41.39	31.98	32.46	35.63	26.09	28.88	31.34	27.79	21.77	26.92	36.52	36.35	31.43
Thermoelectric		2.05	1.86	1.95	1.62	2.20	2.33	2.72	2.79	2.76	1.96	1.91	2.20	2.20
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		**45.06**	**35.45**	**36.06**	**38.92**	**29.82**	**33.04**	**35.68**	**31.87**	**25.69**	**29.96**	**39.97**	**40.38**	**35.16**

AUTAUGA — **2015 FINAL DATA**

Total SW Withdrawals	SW	44.65	41.96	41.25	39.48	42.67	48.12	53.22	52.31	50.95	46.12	42.94	44.58	45.72
Total GW Withdrawals	GW	8.50	8.50	8.73	9.42	11.55	13.16	13.44	13.31	12.09	11.15	9.36	9.04	10.70
Withdrawal Total		53.14	50.46	49.98	48.91	54.22	61.27	66.67	65.62	63.04	57.27	52.30	53.62	56.43
Total Returns		**45.06**	**35.45**	**36.06**	**38.92**	**29.82**	**33.04**	**35.68**	**31.87**	**25.69**	**29.96**	**39.97**	**40.38**	**35.16**
Net SW (MGD)	**SW**	**-0.41**	**6.51**	**5.19**	**0.57**	**12.86**	**15.08**	**17.54**	**20.44**	**25.26**	**16.16**	**2.98**	**4.20**	**10.53**


AUTAUGA
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
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Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
30.00
25.00
20.00
15.00
10.00
5.00
0.00
-5.00
Million Gallons per Day
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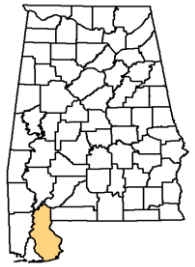
Nov
Dec
Month
Net SW (MGD)

BALDWIN



Population	203,709
Pop served by public supply	174,907

2015 Demands

Withdrawals

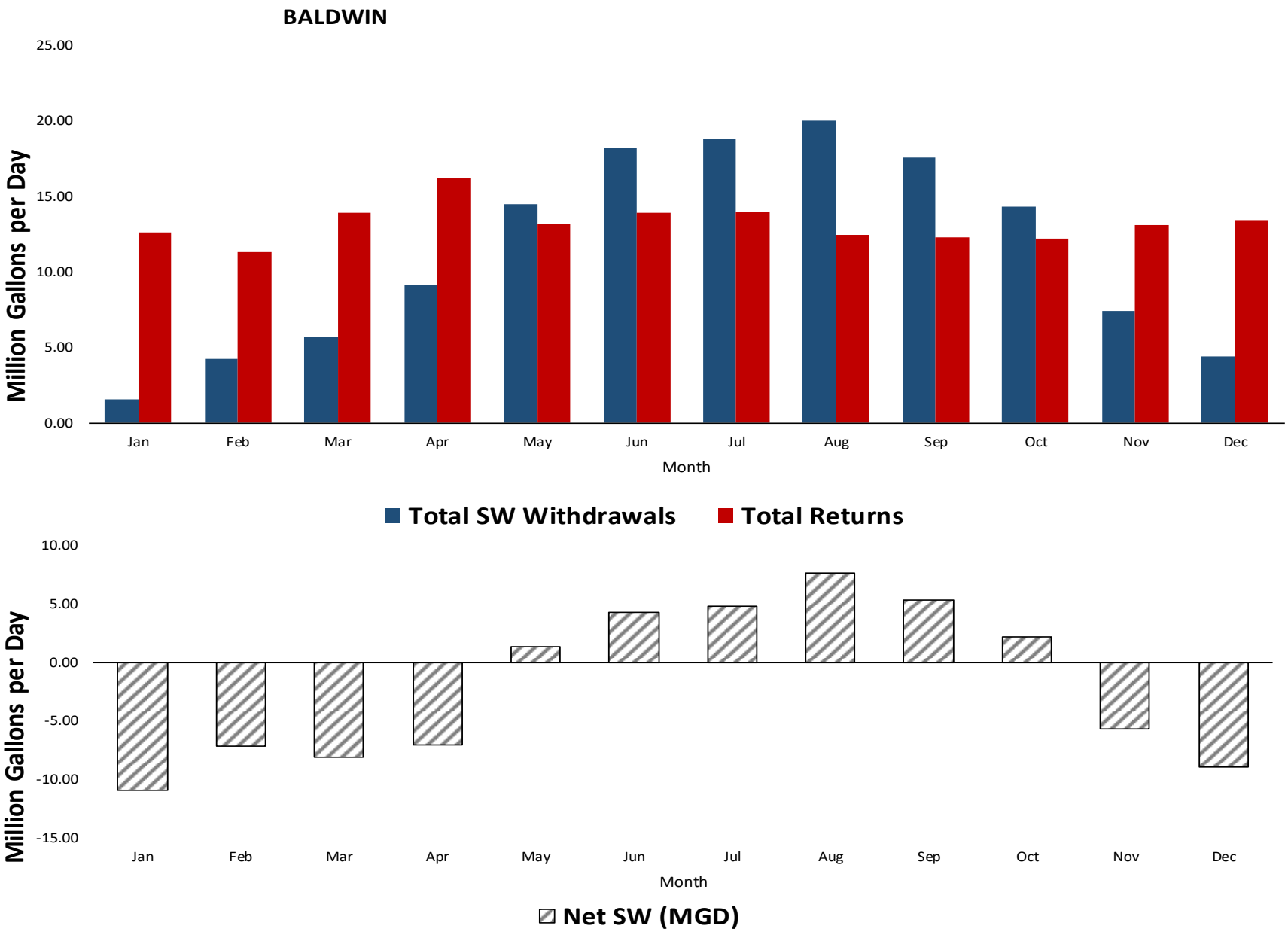
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	20.62	20.97	21.82	23.86	29.88	30.96	32.09	29.59	28.51	26.34	23.10	22.05	25.85
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
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	22.48	29.05	32.51	38.41	50.74	64.88	67.24	69.63	64.49	59.27	39.23	30.31	47.46
Agriculture	SW	1.58	4.20	5.73	9.08	14.46	18.19	18.82	20.03	17.55	14.35	7.38	4.43	11.36
Total	**GW**	**43.32**	**50.24**	**54.56**	**62.49**	**80.84**	**96.06**	**99.55**	**99.45**	**93.22**	**85.83**	**62.55**	**52.59**	**73.52**
Total	**SW**	**1.58**	**4.20**	**5.73**	**9.08**	**14.46**	**18.19**	**18.82**	**20.03**	**17.55**	**14.35**	**7.38**	**4.43**	**11.36**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		12.37	11.27	13.80	16.10	12.93	13.58	13.65	12.13	11.93	11.89	12.94	13.16	12.98
Industrial/Mining		0.22	0.07	0.08	0.08	0.23	0.34	0.36	0.32	0.34	0.34	0.20	0.23	0.23
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		**12.59**	**11.34**	**13.88**	**16.18**	**13.16**	**13.92**	**14.01**	**12.45**	**12.27**	**12.23**	**13.13**	**13.39**	**13.21**

BALDWIN — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.58	4.20	5.73	9.08	14.46	18.19	18.82	20.03	17.55	14.35	7.38	4.43	11.36
Total GW Withdrawals	GW	43.32	50.24	54.56	62.49	80.84	96.06	99.55	99.45	93.22	85.83	62.55	52.59	73.52
Withdrawal Total		44.90	54.44	60.29	71.57	95.30	114.25	118.38	119.47	110.76	100.18	69.92	57.02	84.88
Total Returns		**12.59**	**11.34**	**13.88**	**16.18**	**13.16**	**13.92**	**14.01**	**12.45**	**12.27**	**12.23**	**13.13**	**13.39**	**13.21**
Net SW (MGD)	**SW**	**-11.00**	**-7.14**	**-8.14**	**-7.10**	**1.30**	**4.26**	**4.82**	**7.58**	**5.27**	**2.12**	**-5.76**	**-8.95**	**-1.90**


BALDWIN
25.00
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15.00
10.00
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Million Gallons per Day
Jan
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Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
5.00
0.00
-5.00
-10.00
-15.00
Million Gallons per Day
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Oct
Nov
Dec
Month
Net SW (MGD)

BARBOUR

Population	26,489
Pop served by public supply	24,587

2015 Demands

Withdrawals

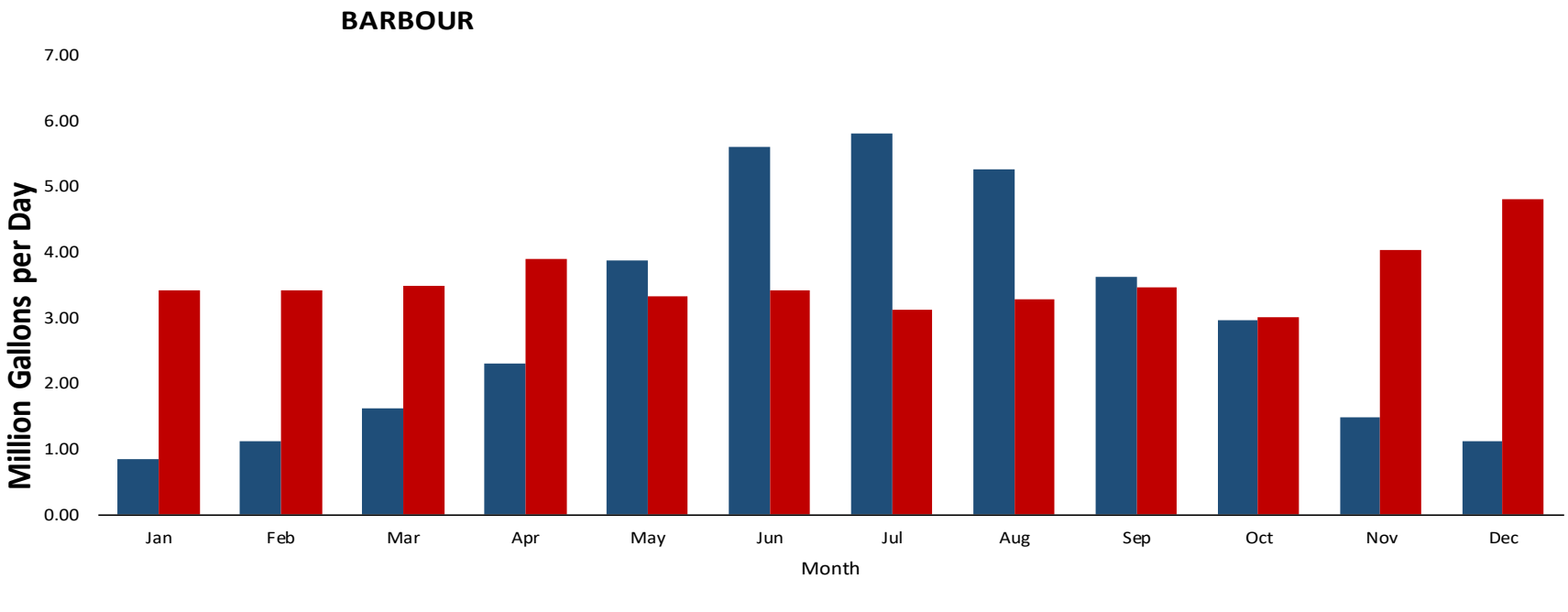
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.30	3.18	3.04	3.28	3.44	3.59	3.67	3.55	3.35	3.32	3.26	3.16	3.34
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.83	1.73	1.86	1.81	1.82	1.85	1.83	1.73	1.79	1.89	1.77	1.73	1.80
Industrial/Mining	SW	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
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	0.41	0.40	0.58	0.72	1.22	1.91	2.00	1.52	0.78	0.63	0.42	0.39	0.92
Agriculture	SW	0.70	0.98	1.48	2.16	3.73	5.46	5.67	5.11	3.49	2.82	1.34	0.97	2.84
Total	**GW**	**5.55**	**5.31**	**5.47**	**5.81**	**6.47**	**7.35**	**7.49**	**6.79**	**5.92**	**5.83**	**5.45**	**5.27**	**6.07**
Total	**SW**	**0.84**	**1.12**	**1.62**	**2.30**	**3.87**	**5.60**	**5.81**	**5.25**	**3.63**	**2.96**	**1.48**	**1.11**	**2.98**

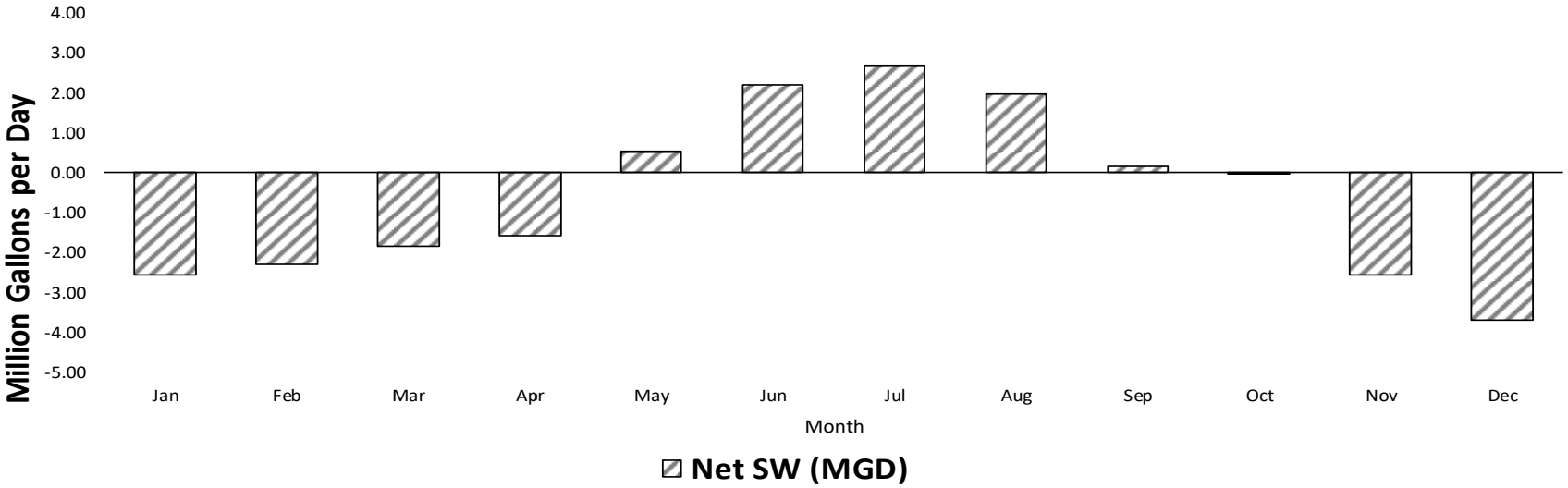
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.12	2.11	2.00	2.57	2.16	2.22	2.04	2.04	2.12	1.98	2.74	3.43	2.29
Industrial/Mining		1.29	1.31	1.48	1.31	1.18	1.19	1.07	1.24	1.34	1.02	1.29	1.37	1.26
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		**3.41**	**3.42**	**3.48**	**3.89**	**3.34**	**3.41**	**3.11**	**3.28**	**3.46**	**3.00**	**4.03**	**4.80**	**3.55**

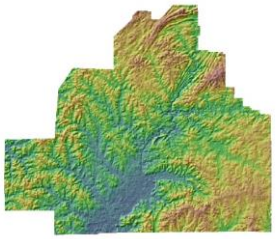
BARBOUR — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.84	1.12	1.62	2.30	3.87	5.60	5.81	5.25	3.63	2.96	1.48	1.11	2.98
Total GW Withdrawals	GW	5.55	5.31	5.47	5.81	6.47	7.35	7.49	6.79	5.92	5.83	5.45	5.27	6.07
Withdrawal Total		6.40	6.43	7.09	8.12	10.34	12.95	13.30	12.04	9.54	8.79	6.93	6.38	9.04
Total Returns		**3.41**	**3.42**	**3.48**	**3.89**	**3.34**	**3.41**	**3.11**	**3.28**	**3.46**	**3.00**	**4.03**	**4.80**	**3.55**
Net SW (MGD)	**SW**	**-2.56**	**-2.30**	**-1.86**	**-1.58**	**0.53**	**2.19**	**2.69**	**1.97**	**0.17**	**-0.05**	**-2.55**	**-3.69**	**-0.59**


BARBOUR
Million Gallons per Day
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
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)

BIBB



Population	22,583
Pop served by public supply	20,947

2015 Demands

Withdrawals

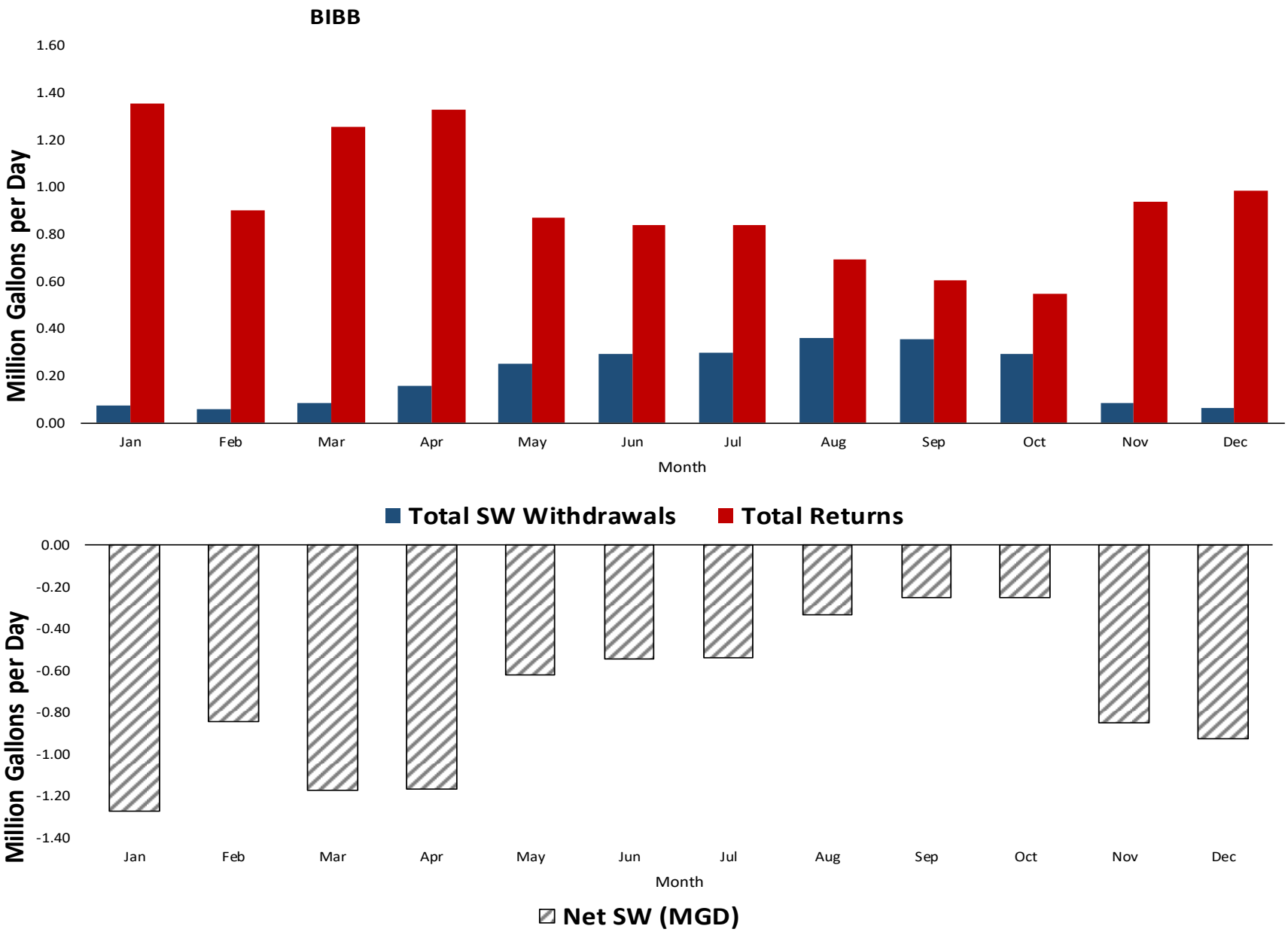
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.06	5.17	4.98	5.13	5.40	5.69	5.67	5.56	5.53	5.51	5.29	5.12	5.34
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Industrial/Mining	SW	0.00	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	0.04	0.05	0.05	0.08	0.11	0.12	0.09	0.06	0.05	0.04	0.04	0.06
Agriculture	SW	0.07	0.06	0.08	0.16	0.25	0.29	0.30	0.36	0.35	0.29	0.09	0.06	0.20
Total	**GW**	**5.10**	**5.22**	**5.03**	**5.19**	**5.49**	**5.81**	**5.79**	**5.67**	**5.60**	**5.57**	**5.34**	**5.17**	**5.42**
Total	**SW**	**0.07**	**0.06**	**0.08**	**0.16**	**0.25**	**0.29**	**0.30**	**0.36**	**0.35**	**0.29**	**0.09**	**0.06**	**0.20**

Returns

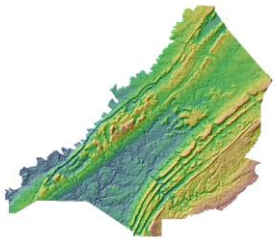
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.35	0.90	1.26	1.33	0.87	0.84	0.84	0.69	0.60	0.55	0.94	0.99	0.93
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**1.35**	**0.90**	**1.26**	**1.33**	**0.87**	**0.84**	**0.84**	**0.69**	**0.60**	**0.55**	**0.94**	**0.99**	**0.93**

BIBB — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.07	0.06	0.08	0.16	0.25	0.29	0.30	0.36	0.35	0.29	0.09	0.06	0.20
Total GW Withdrawals	GW	5.10	5.22	5.03	5.19	5.49	5.81	5.79	5.67	5.60	5.57	5.34	5.17	5.42
Withdrawal Total		5.18	5.28	5.12	5.35	5.74	6.10	6.09	6.03	5.95	5.86	5.43	5.23	5.61
Total Returns		**1.35**	**0.90**	**1.26**	**1.33**	**0.87**	**0.84**	**0.84**	**0.69**	**0.60**	**0.55**	**0.94**	**0.99**	**0.93**
Net SW (MGD)	**SW**	**-1.28**	**-0.84**	**-1.17**	**-1.17**	**-0.62**	**-0.55**	**-0.54**	**-0.34**	**-0.25**	**-0.25**	**-0.85**	**-0.93**	**-0.73**


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

BLOUNT



Population	57,673
Pop served by public supply	44,815

2015 Demands

Withdrawals

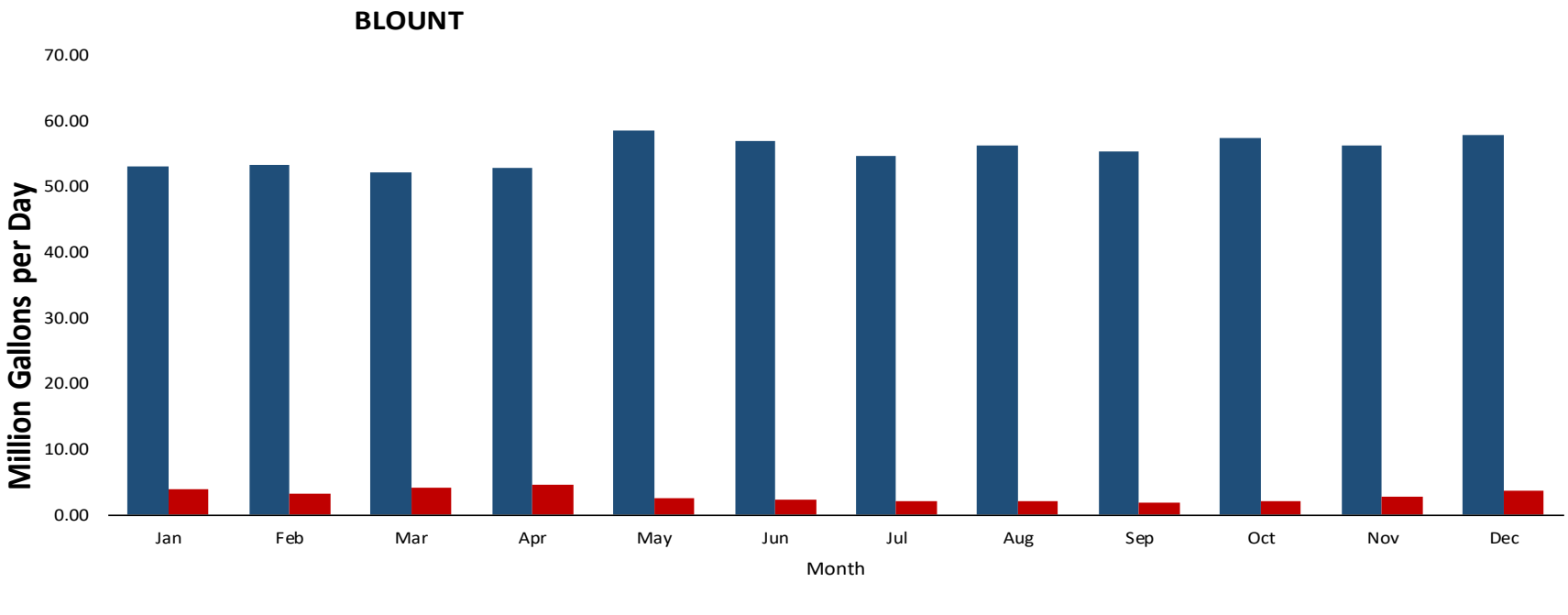
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.87	3.70	3.91	3.81	3.48	3.79	3.89	3.38	3.43	3.51	3.46	3.49	3.64
Public Supply	SW	52.49	52.78	51.42	51.67	56.84	54.99	52.49	54.17	53.48	55.74	55.57	57.30	54.09
Industrial/Mining	GW	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
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	0.48	0.48	0.53	0.57	0.71	0.90	0.93	0.81	0.62	0.58	0.50	0.48	0.63
Agriculture	SW	0.68	0.62	0.75	1.19	1.69	2.02	2.07	2.15	1.91	1.62	0.75	0.64	1.35
Total	**GW**	**4.53**	**4.37**	**4.63**	**4.57**	**4.38**	**4.88**	**5.00**	**4.38**	**4.24**	**4.28**	**4.15**	**4.16**	**4.46**
Total	**SW**	**53.17**	**53.39**	**52.17**	**52.86**	**58.52**	**57.01**	**54.56**	**56.33**	**55.39**	**57.36**	**56.32**	**57.94**	**55.44**

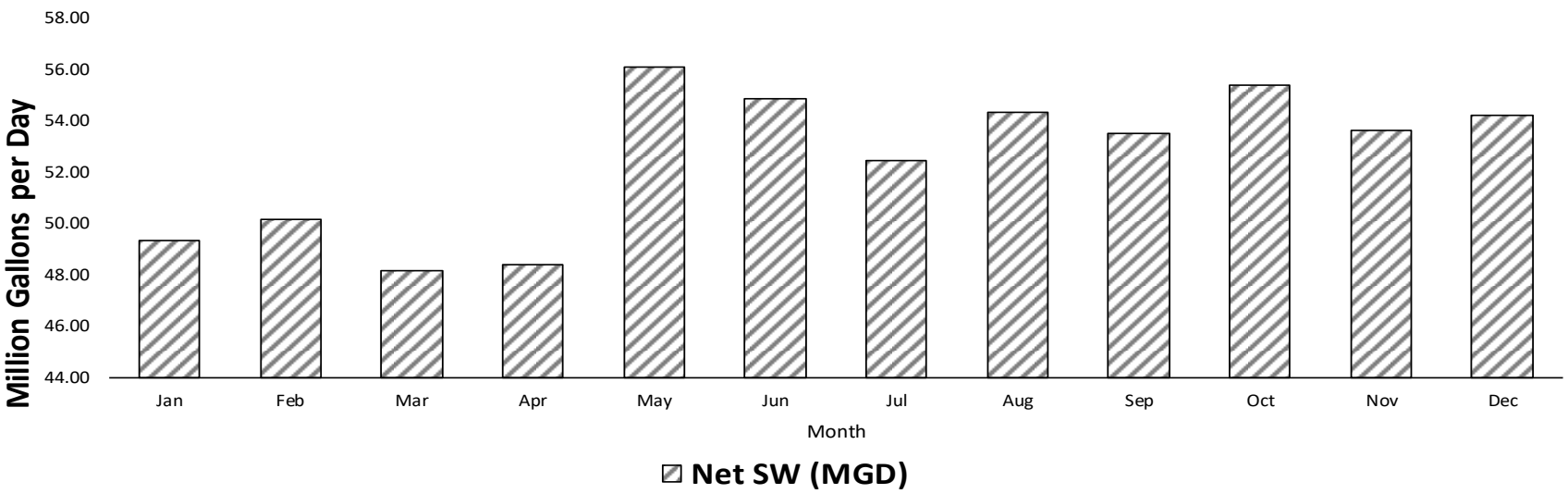
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.54	1.86	2.56	2.94	1.23	0.87	0.83	1.09	0.90	0.81	1.18	2.17	1.58
Industrial/Mining		1.33	1.41	1.47	1.52	1.19	1.33	1.30	0.92	1.00	1.19	1.53	1.59	1.32
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		**3.87**	**3.27**	**4.03**	**4.46**	**2.43**	**2.20**	**2.12**	**2.01**	**1.90**	**2.00**	**2.71**	**3.76**	**2.90**

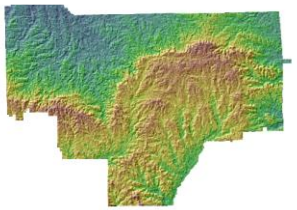
BLOUNT — **2015 FINAL DATA**

Total SW Withdrawals	SW	53.17	53.39	52.17	52.86	58.52	57.01	54.56	56.33	55.39	57.36	56.32	57.94	55.44
Total GW Withdrawals	GW	4.53	4.37	4.63	4.57	4.38	4.88	5.00	4.38	4.24	4.28	4.15	4.16	4.46
Withdrawal Total		57.70	57.77	56.80	57.43	62.90	61.89	59.56	60.71	59.63	61.64	60.47	62.10	59.90
Total Returns		**3.87**	**3.27**	**4.03**	**4.46**	**2.43**	**2.20**	**2.12**	**2.01**	**1.90**	**2.00**	**2.71**	**3.76**	**2.90**
Net SW (MGD)	**SW**	**49.30**	**50.12**	**48.14**	**48.40**	**56.10**	**54.81**	**52.44**	**54.32**	**53.49**	**55.36**	**53.61**	**54.18**	**52.52**


BLOUNT
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


58.00
56.00
54.00
52.00
50.00
48.00
46.00
44.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

BULLOCK



Population	10,696
Pop served by public supply	9,958

2015 Demands

Withdrawals

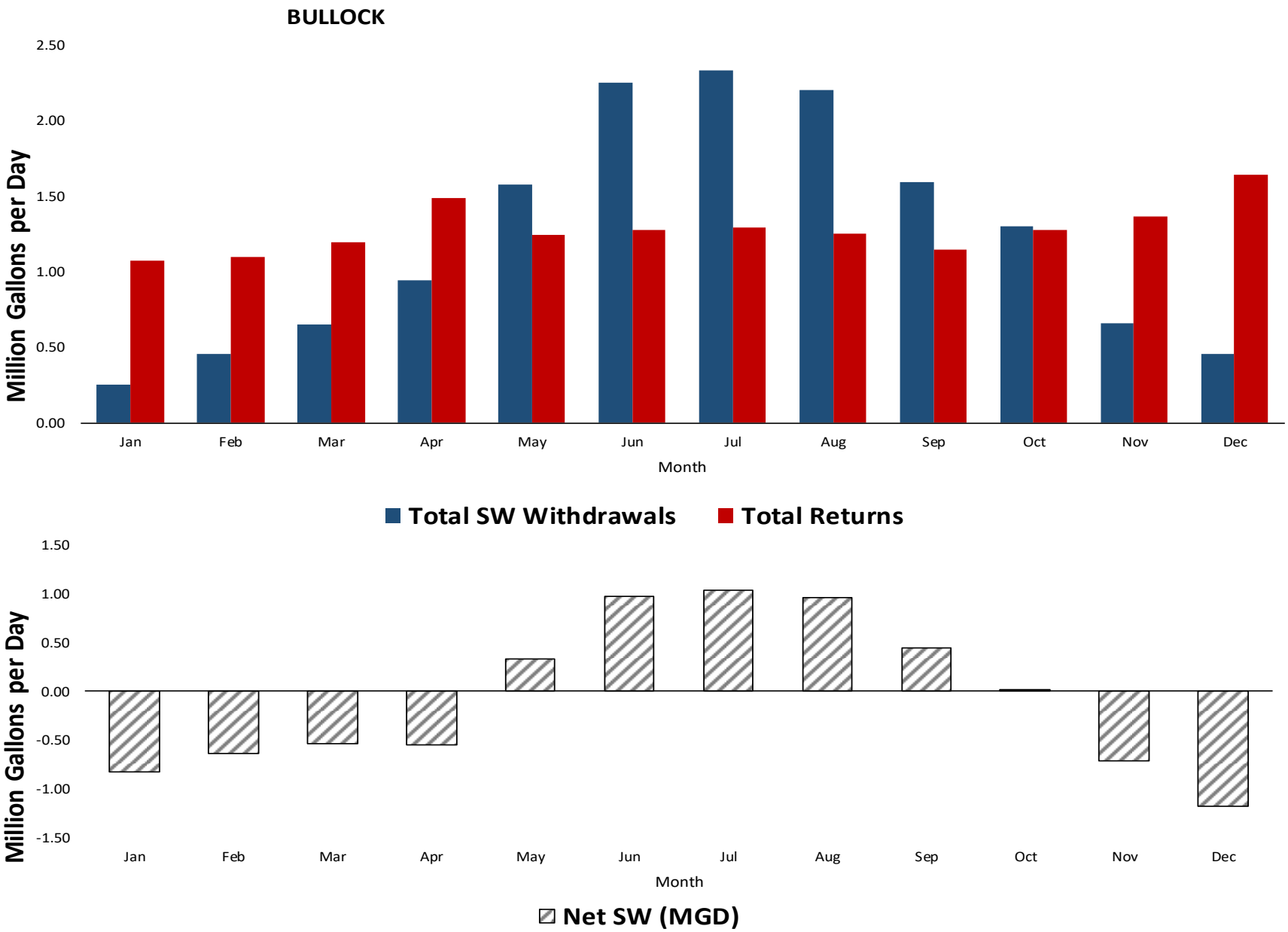
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.26	2.17	2.10	2.11	2.10	2.18	2.35	2.28	2.15	2.14	2.18	2.15	2.18
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.36	0.42	0.58	0.75	1.22	1.85	1.94	1.64	1.08	0.91	0.55	0.43	0.98
Agriculture	SW	0.25	0.46	0.65	0.94	1.58	2.26	2.33	2.21	1.59	1.30	0.66	0.46	1.23
Total	**GW**	**2.62**	**2.59**	**2.68**	**2.85**	**3.32**	**4.03**	**4.29**	**3.92**	**3.22**	**3.06**	**2.73**	**2.58**	**3.16**
Total	**SW**	**0.25**	**0.46**	**0.65**	**0.94**	**1.58**	**2.26**	**2.33**	**2.21**	**1.59**	**1.30**	**0.66**	**0.46**	**1.23**

Returns

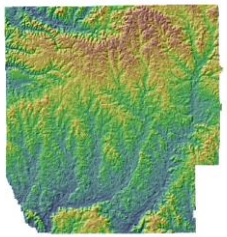
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.08	1.10	1.19	1.49	1.24	1.28	1.29	1.25	1.15	1.28	1.37	1.64	1.28
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**1.08**	**1.10**	**1.19**	**1.49**	**1.24**	**1.28**	**1.29**	**1.25**	**1.15**	**1.28**	**1.37**	**1.64**	**1.28**

BULLOCK — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.25	0.46	0.65	0.94	1.58	2.26	2.33	2.21	1.59	1.30	0.66	0.46	1.23
Total GW Withdrawals	GW	2.62	2.59	2.68	2.85	3.32	4.03	4.29	3.92	3.22	3.06	2.73	2.58	3.16
Withdrawal Total		2.87	3.05	3.33	3.80	4.90	6.29	6.62	6.12	4.81	4.36	3.39	3.03	4.39
Total Returns		**1.08**	**1.10**	**1.19**	**1.49**	**1.24**	**1.28**	**1.29**	**1.25**	**1.15**	**1.28**	**1.37**	**1.64**	**1.28**
Net SW (MGD)	**SW**	**-0.82**	**-0.64**	**-0.54**	**-0.54**	**0.34**	**0.98**	**1.04**	**0.96**	**0.44**	**0.02**	**-0.71**	**-1.18**	**-0.06**


BULLOCK
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
1.50
1.00
0.50
0.00
-0.50
-1.00
-1.50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

BUTLER



Population	20,154
Pop served by public supply	16,806

2015 Demands

Withdrawals

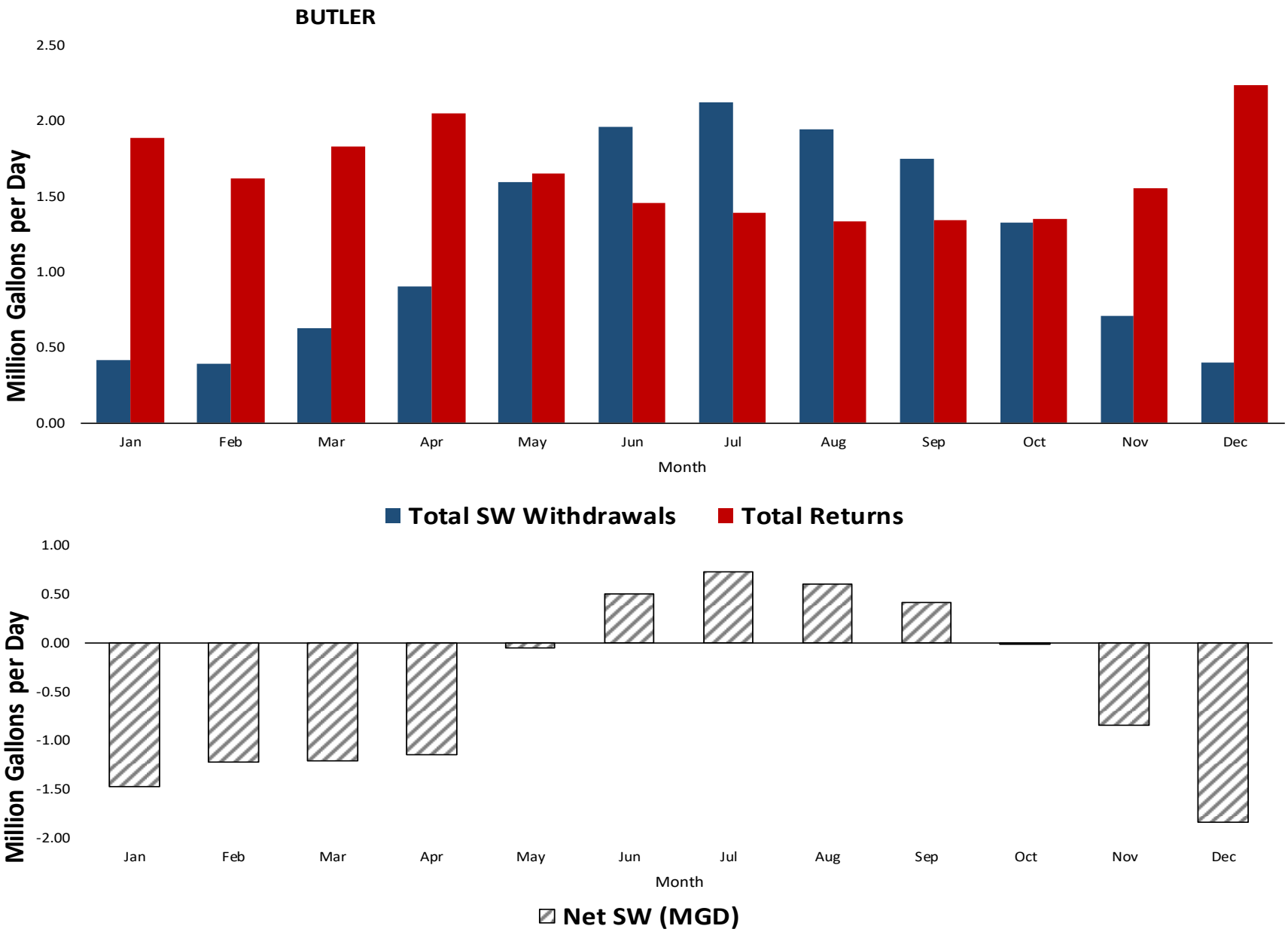
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.65	2.37	2.61	2.44	2.88	2.65	2.69	2.67	2.53	2.46	2.38	2.28	2.55
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.19	0.20	0.17	0.15	0.18	0.19	0.22	0.22	0.24	0.20	0.20	0.18	0.19
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	0.13	0.14	0.14	0.14	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.14
Agriculture	SW	0.42	0.39	0.62	0.90	1.60	1.96	2.12	1.94	1.75	1.33	0.70	0.40	1.18
Total	**GW**	**2.98**	**2.70**	**2.92**	**2.73**	**3.21**	**2.99**	**3.07**	**3.05**	**2.91**	**2.80**	**2.72**	**2.60**	**2.89**
Total	**SW**	**0.42**	**0.39**	**0.62**	**0.90**	**1.60**	**1.96**	**2.12**	**1.94**	**1.75**	**1.33**	**0.70**	**0.40**	**1.18**

Returns

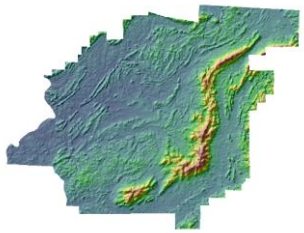
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.87	1.59	1.81	2.02	1.63	1.43	1.37	1.31	1.32	1.33	1.53	2.21	1.62
Industrial/Mining		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**1.89**	**1.62**	**1.83**	**2.05**	**1.65**	**1.46**	**1.39**	**1.34**	**1.34**	**1.35**	**1.56**	**2.24**	**1.64**

BUTLER — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.42	0.39	0.62	0.90	1.60	1.96	2.12	1.94	1.75	1.33	0.70	0.40	1.18
Total GW Withdrawals	GW	2.98	2.70	2.92	2.73	3.21	2.99	3.07	3.05	2.91	2.80	2.72	2.60	2.89
Withdrawal Total		3.39	3.09	3.55	3.63	4.81	4.95	5.19	4.99	4.66	4.13	3.42	3.00	4.07
Total Returns		**1.89**	**1.62**	**1.83**	**2.05**	**1.65**	**1.46**	**1.39**	**1.34**	**1.34**	**1.35**	**1.56**	**2.24**	**1.64**
Net SW (MGD)	**SW**	**-1.48**	**-1.23**	**-1.21**	**-1.15**	**-0.06**	**0.50**	**0.73**	**0.60**	**0.41**	**-0.02**	**-0.85**	**-1.84**	**-0.47**


BUTLER
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
1.00
0.50
0.00
-0.50
-1.00
-1.50
-2.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

CALHOUN



Population	115,620
Pop served by public supply	109,438

2015 Demands

Withdrawals

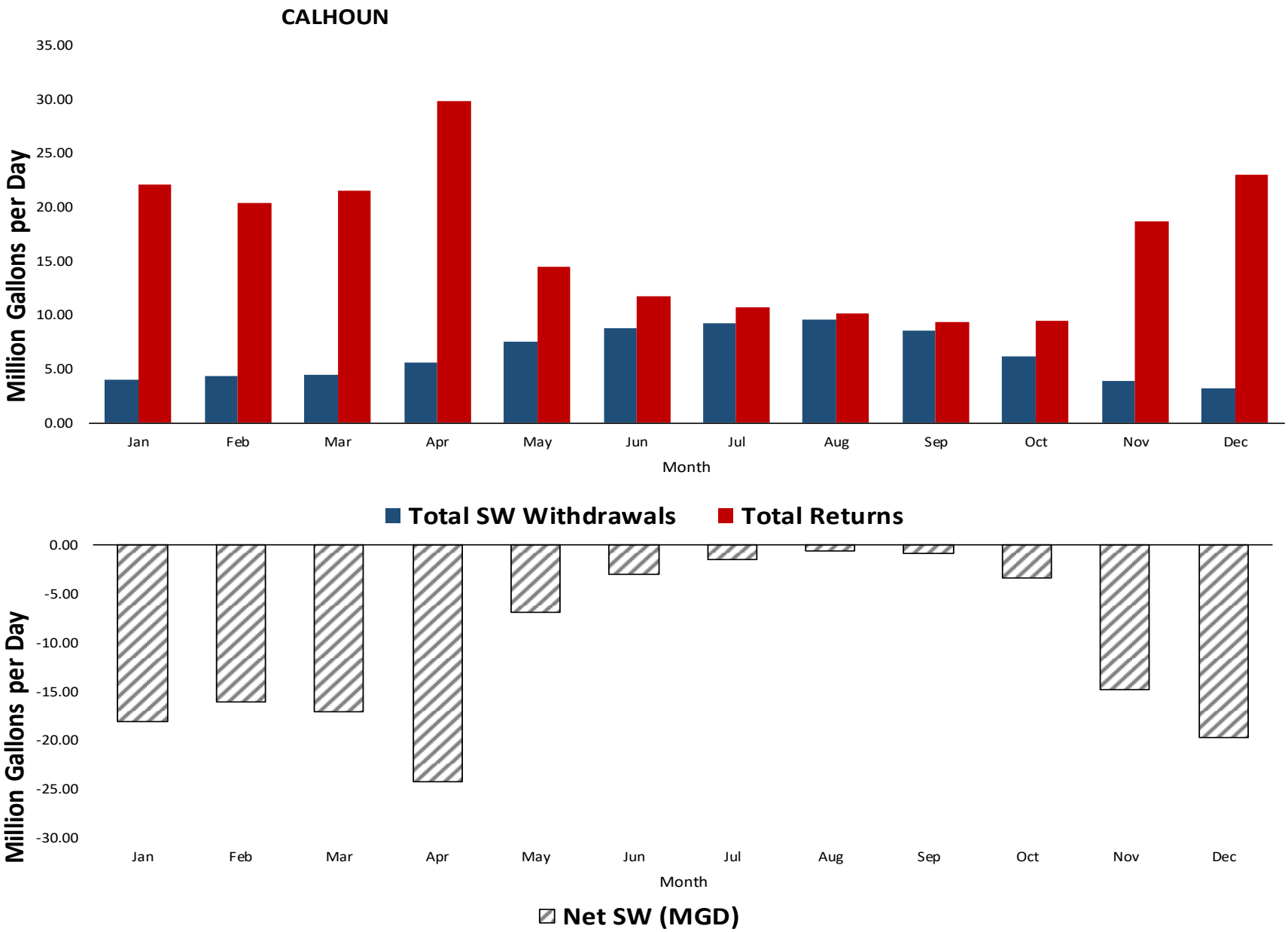
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	22.48	23.06	21.92	21.28	23.45	24.63	25.28	25.36	23.19	22.15	21.46	20.62	22.91
Public Supply	SW	3.19	3.05	2.63	2.85	2.97	2.97	3.13	3.51	3.33	2.03	1.80	1.95	2.78
Industrial/Mining	GW	1.03	1.07	1.16	1.03	1.14	1.23	1.19	1.29	1.18	1.13	1.20	1.15	1.15
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	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Agriculture	SW	0.83	1.22	1.78	2.75	4.55	5.81	6.09	6.04	5.16	4.13	2.06	1.27	3.49
Total	**GW**	**23.77**	**24.41**	**23.35**	**22.58**	**24.87**	**26.13**	**26.75**	**26.92**	**24.63**	**23.55**	**22.93**	**22.04**	**24.33**
Total	**SW**	**4.02**	**4.28**	**4.41**	**5.59**	**7.52**	**8.77**	**9.22**	**9.55**	**8.49**	**6.16**	**3.86**	**3.22**	**6.27**

Returns

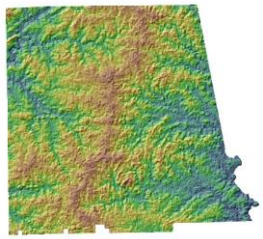
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		20.55	18.93	20.03	28.11	13.09	10.33	9.30	8.71	7.92	8.27	17.12	21.44	15.32
Industrial/Mining		1.54	1.42	1.52	1.73	1.33	1.43	1.45	1.42	1.40	1.22	1.52	1.55	1.46
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**22.08**	**20.35**	**21.55**	**29.84**	**14.42**	**11.75**	**10.75**	**10.13**	**9.32**	**9.49**	**18.65**	**23.00**	**16.78**

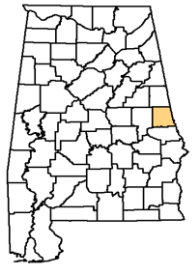
CALHOUN — **2015 FINAL DATA**

Total SW Withdrawals	SW	4.02	4.28	4.41	5.59	7.52	8.77	9.22	9.55	8.49	6.16	3.86	3.22	6.27
Total GW Withdrawals	GW	23.77	24.41	23.35	22.58	24.87	26.13	26.75	26.92	24.63	23.55	22.93	22.04	24.33
Withdrawal Total		27.80	28.69	27.76	28.18	32.39	34.90	35.96	36.47	33.12	29.71	26.79	25.26	30.60
Total Returns		**22.08**	**20.35**	**21.55**	**29.84**	**14.42**	**11.75**	**10.75**	**10.13**	**9.32**	**9.49**	**18.65**	**23.00**	**16.78**
Net SW (MGD)	**SW**	**-18.06**	**-16.08**	**-17.14**	**-24.25**	**-6.89**	**-2.98**	**-1.53**	**-0.58**	**-0.83**	**-3.33**	**-14.78**	**-19.77**	**-10.52**


CALHOUN
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

CHAMBERS





Population	34,123
Pop served by public supply	25,783

2015 Demands

Withdrawals

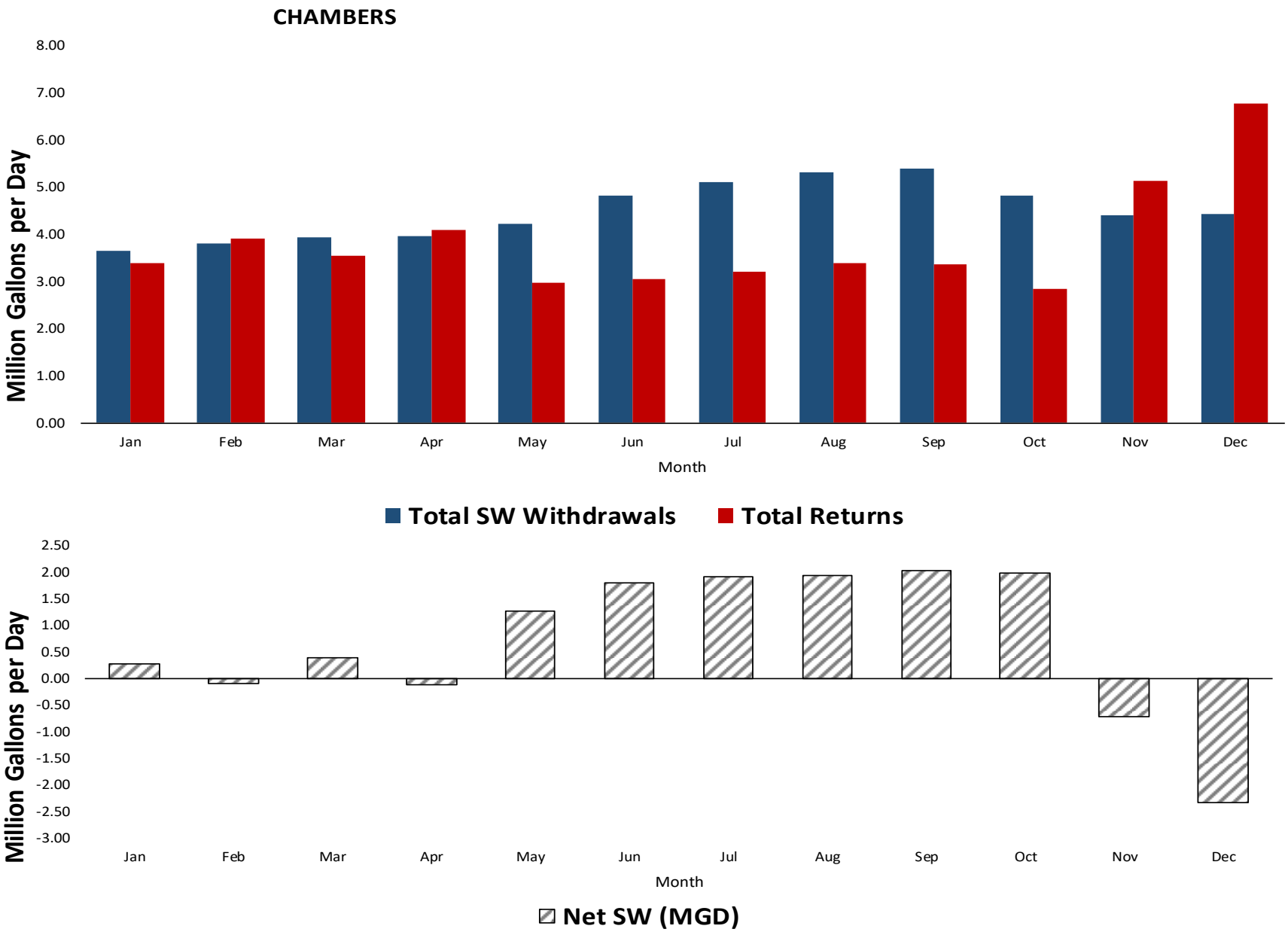
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Public Supply	SW	3.48	3.65	3.77	3.70	3.89	4.44	4.73	4.87	4.93	4.45	4.21	4.28	4.20
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.11	0.13	0.14	0.18	0.23	0.24	0.21	0.16	0.15	0.12	0.11	0.16
Agriculture	SW	0.16	0.15	0.17	0.25	0.34	0.38	0.39	0.45	0.44	0.38	0.18	0.15	0.29
Total	**GW**	**0.58**	**0.59**	**0.60**	**0.61**	**0.65**	**0.71**	**0.71**	**0.68**	**0.63**	**0.62**	**0.59**	**0.59**	**0.63**
Total	**SW**	**3.65**	**3.80**	**3.94**	**3.95**	**4.23**	**4.82**	**5.11**	**5.32**	**5.38**	**4.83**	**4.39**	**4.43**	**4.49**

Returns

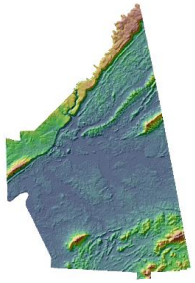
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.38	3.89	3.55	4.08	2.97	3.03	3.21	3.39	3.37	2.85	5.12	6.78	3.80
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**3.38**	**3.89**	**3.55**	**4.08**	**2.97**	**3.03**	**3.21**	**3.39**	**3.37**	**2.85**	**5.12**	**6.78**	**3.80**

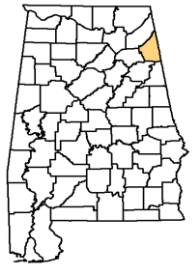
CHAMBERS — **2015 FINAL DATA**

Total SW Withdrawals	SW	3.65	3.80	3.94	3.95	4.23	4.82	5.11	5.32	5.38	4.83	4.39	4.43	4.49
Total GW Withdrawals	GW	0.58	0.59	0.60	0.61	0.65	0.71	0.71	0.68	0.63	0.62	0.59	0.59	0.63
Withdrawal Total		4.23	4.38	4.54	4.57	4.88	5.52	5.83	6.01	6.01	5.45	4.98	5.02	5.12
Total Returns		**3.38**	**3.89**	**3.55**	**4.08**	**2.97**	**3.03**	**3.21**	**3.39**	**3.37**	**2.85**	**5.12**	**6.78**	**3.80**
Net SW (MGD)	**SW**	**0.27**	**-0.10**	**0.39**	**-0.13**	**1.26**	**1.78**	**1.91**	**1.94**	**2.01**	**1.98**	**-0.73**	**-2.34**	**0.69**


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

CHEROKEE





Population	25,859
Pop served by public supply	17,746

2015 Demands

Withdrawals

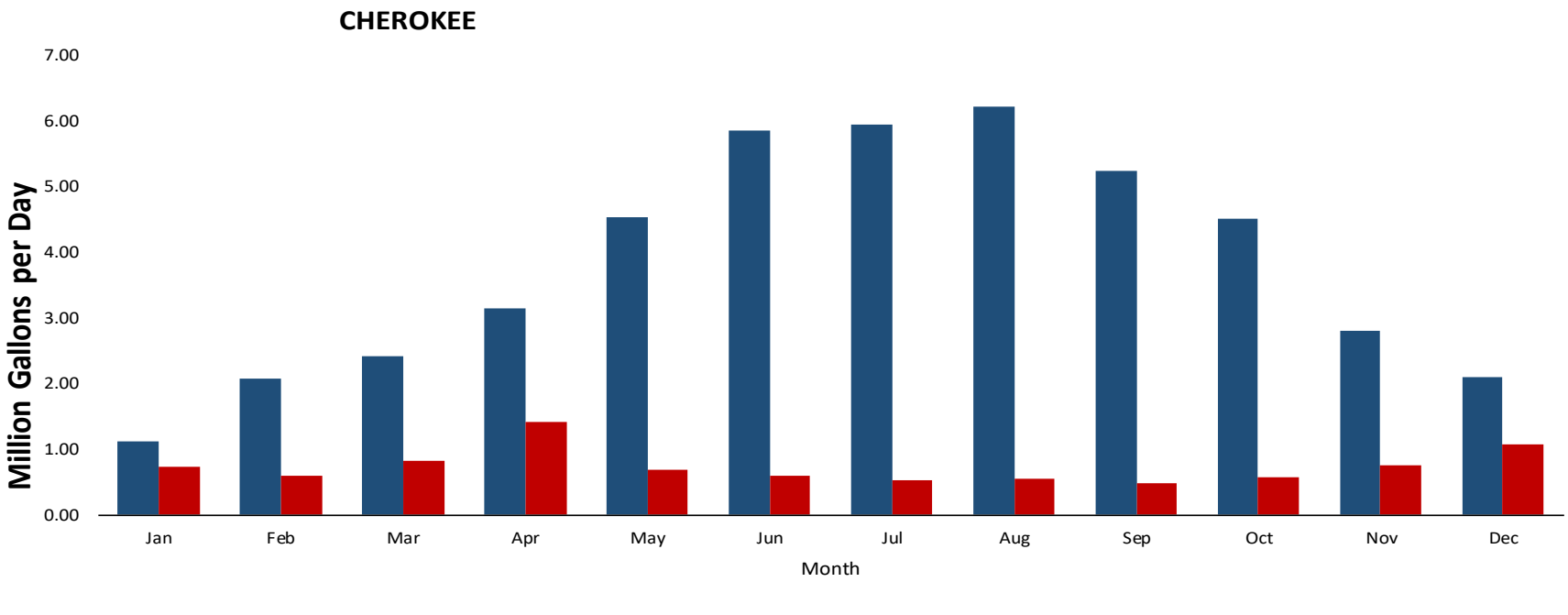
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.88	2.62	2.64	2.67	2.86	3.19	3.41	3.18	3.01	2.85	2.86	2.92	2.93
Public Supply	SW	0.72	0.71	0.70	0.73	0.81	0.90	0.88	0.83	0.81	0.79	0.71	0.71	0.77
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Agriculture	SW	0.40	1.36	1.72	2.41	3.72	4.96	5.06	5.40	4.42	3.73	2.10	1.38	3.07
Total	**GW**	**3.55**	**3.29**	**3.31**	**3.34**	**3.53**	**3.86**	**4.08**	**3.85**	**3.68**	**3.52**	**3.53**	**3.59**	**3.60**
Total	**SW**	**1.12**	**2.07**	**2.42**	**3.14**	**4.53**	**5.86**	**5.94**	**6.23**	**5.23**	**4.52**	**2.81**	**2.09**	**3.84**

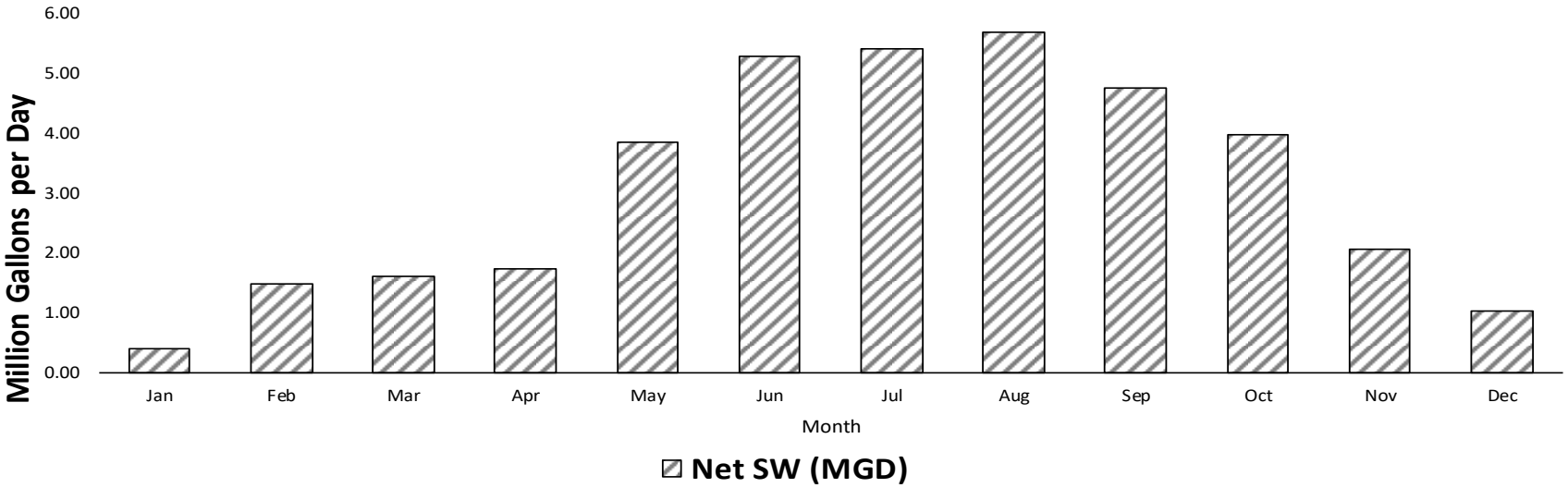
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.73	0.60	0.82	1.41	0.69	0.58	0.53	0.56	0.48	0.57	0.75	1.06	0.73
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		**0.73**	**0.60**	**0.82**	**1.41**	**0.69**	**0.58**	**0.53**	**0.56**	**0.48**	**0.57**	**0.75**	**1.06**	**0.73**

CHEROKEE — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.12	2.07	2.42	3.14	4.53	5.86	5.94	6.23	5.23	4.52	2.81	2.09	3.84
Total GW Withdrawals	GW	3.55	3.29	3.31	3.34	3.53	3.86	4.08	3.85	3.68	3.52	3.53	3.59	3.60
Withdrawal Total		4.67	5.36	5.72	6.48	8.06	9.72	10.01	10.07	8.91	8.04	6.34	5.68	7.43
Total Returns		**0.73**	**0.60**	**0.82**	**1.41**	**0.69**	**0.58**	**0.53**	**0.56**	**0.48**	**0.57**	**0.75**	**1.06**	**0.73**
Net SW (MGD)	**SW**	**0.39**	**1.47**	**1.60**	**1.73**	**3.84**	**5.28**	**5.41**	**5.67**	**4.75**	**3.95**	**2.06**	**1.03**	**3.10**


CHEROKEE
Million Gallons per Day
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
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
Net SW (MGD)

CHILTON

Population	43,943
Pop served by public supply	34,630

2015 Demands

Withdrawals

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.28	3.14	3.09	2.72	3.18	3.46	3.08	2.97	3.22	3.22	2.95	3.00	3.11
Public Supply	SW	1.83	1.76	1.65	1.68	1.81	1.93	2.00	2.11	2.06	2.00	1.93	1.91	1.89
Industrial/Mining	GW	0.33	0.34	0.35	0.35	0.29	0.36	0.61	0.59	0.64	0.62	0.62	0.34	0.45
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	0.16	0.18	0.25	0.31	0.50	0.76	0.79	0.65	0.41	0.34	0.22	0.18	0.40
Agriculture	SW	0.12	0.11	0.13	0.21	0.30	0.34	0.35	0.41	0.40	0.34	0.14	0.11	0.25
Total	**GW**	**3.77**	**3.66**	**3.69**	**3.37**	**3.97**	**4.58**	**4.48**	**4.21**	**4.27**	**4.19**	**3.78**	**3.51**	**3.96**
Total	**SW**	**1.95**	**1.87**	**1.78**	**1.89**	**2.11**	**2.27**	**2.34**	**2.51**	**2.46**	**2.34**	**2.06**	**2.02**	**2.14**

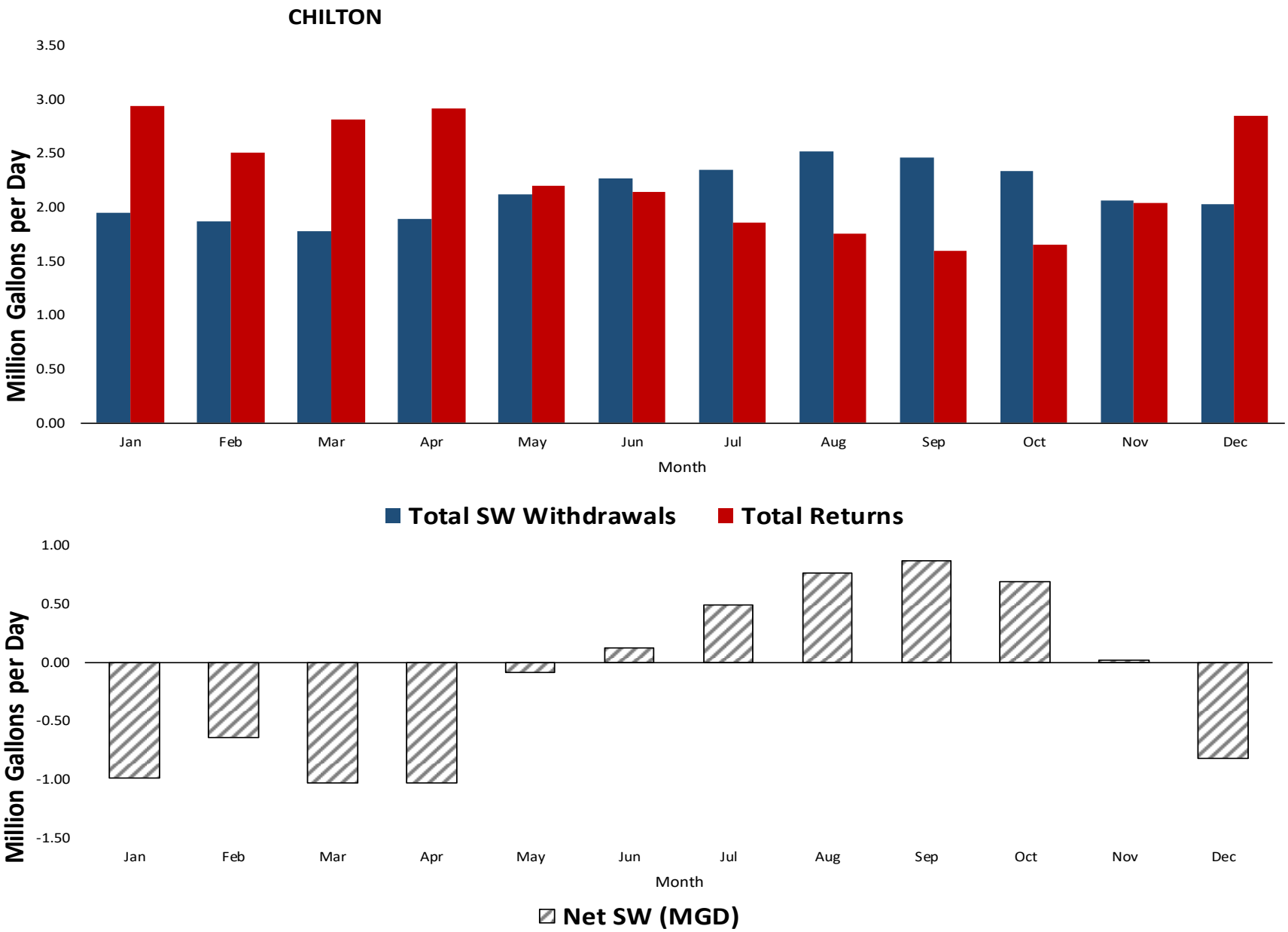
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.77	2.32	2.74	2.76	2.05	1.97	1.74	1.56	1.51	1.59	1.93	2.70	2.14
Industrial/Mining		0.17	0.19	0.08	0.15	0.16	0.18	0.12	0.19	0.09	0.07	0.11	0.15	0.14
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		**2.94**	**2.51**	**2.81**	**2.92**	**2.20**	**2.14**	**1.85**	**1.76**	**1.60**	**1.65**	**2.04**	**2.85**	**2.27**

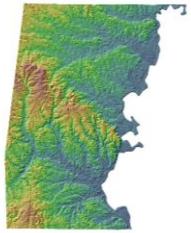
CHILTON

2015 FINAL DATA

Total SW Withdrawals	SW	1.95	1.87	1.78	1.89	2.11	2.27	2.34	2.51	2.46	2.34	2.06	2.02	2.14
Total GW Withdrawals	GW	3.77	3.66	3.69	3.37	3.97	4.58	4.48	4.21	4.27	4.19	3.78	3.51	3.96
Withdrawal Total		5.72	5.52	5.47	5.26	6.08	6.85	6.83	6.73	6.74	6.52	5.84	5.53	6.09
Total Returns		**2.94**	**2.51**	**2.81**	**2.92**	**2.20**	**2.14**	**1.85**	**1.76**	**1.60**	**1.65**	**2.04**	**2.85**	**2.27**
Net SW (MGD)	**SW**	**-0.99**	**-0.64**	**-1.03**	**-1.03**	**-0.09**	**0.12**	**0.49**	**0.76**	**0.87**	**0.68**	**0.02**	**-0.83**	**-0.14**


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

CHOCTAW



Population	13,170
Pop served by public supply	4,998

2015 Demands

Withdrawals

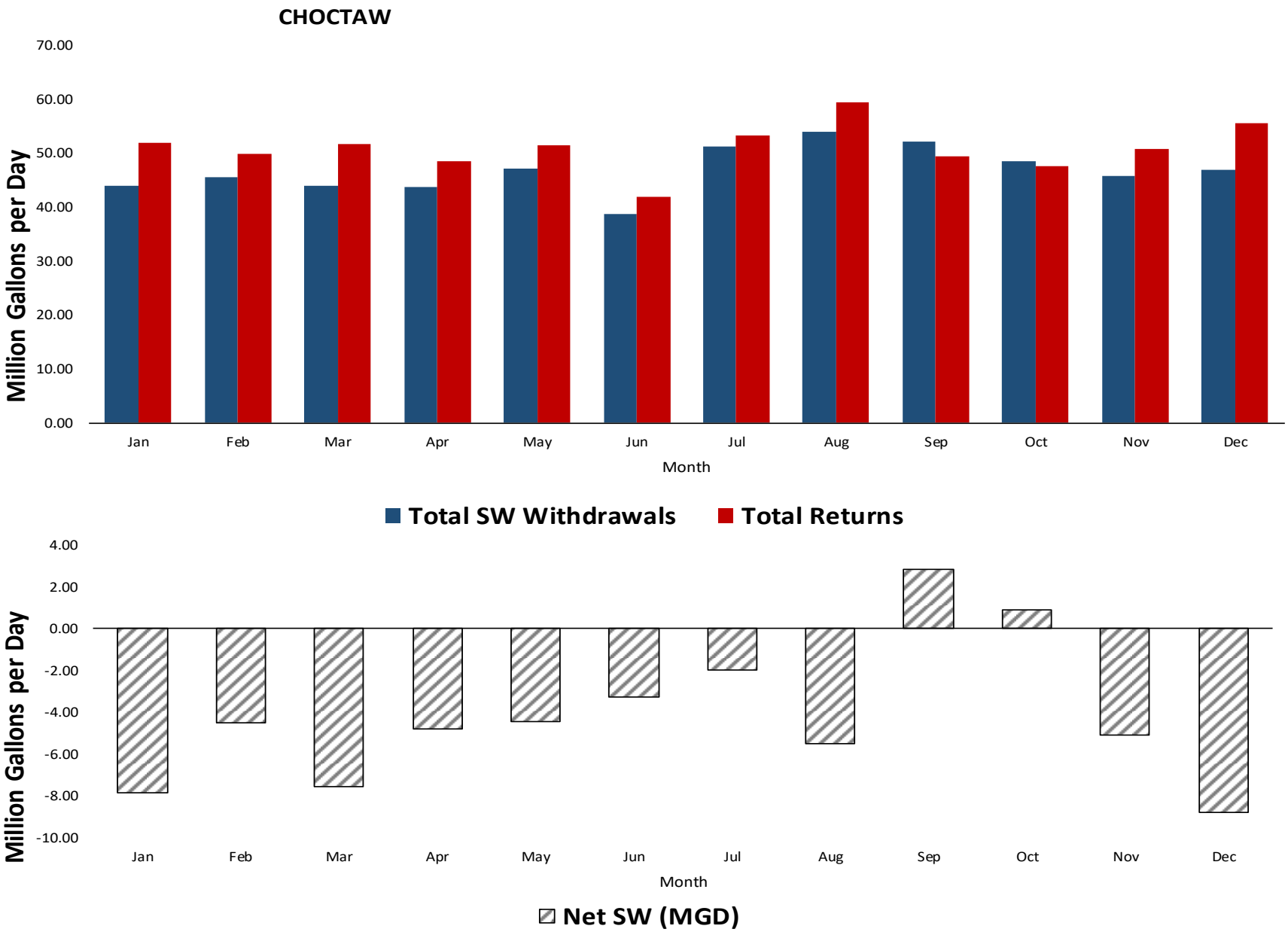
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.85	1.63	1.58	1.56	1.70	1.59	1.62	1.65	1.54	1.54	1.60	1.59	1.62
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	43.90	45.40	44.00	43.50	46.80	38.40	50.90	53.60	51.90	48.20	45.60	46.80	46.61
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	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03
Agriculture	SW	0.06	0.05	0.07	0.15	0.24	0.28	0.29	0.35	0.34	0.28	0.08	0.05	0.19
Total	**GW**	**1.88**	**1.66**	**1.61**	**1.59**	**1.73**	**1.62**	**1.66**	**1.68**	**1.57**	**1.57**	**1.63**	**1.62**	**1.65**
Total	**SW**	**43.96**	**45.45**	**44.07**	**43.65**	**47.04**	**38.68**	**51.19**	**53.95**	**52.24**	**48.48**	**45.68**	**46.85**	**46.80**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.25	0.23	0.36	0.34	0.07	0.18	0.19	0.03	0.02	0.11	0.27	0.34	0.20
Industrial/Mining		51.60	49.70	51.30	48.10	51.40	41.80	53.00	59.40	49.40	47.50	50.50	55.30	50.75
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		**51.85**	**49.93**	**51.66**	**48.44**	**51.47**	**41.98**	**53.19**	**59.43**	**49.42**	**47.61**	**50.77**	**55.64**	**50.95**

CHOCTAW — **2015 FINAL DATA**

Total SW Withdrawals	SW	43.96	45.45	44.07	43.65	47.04	38.68	51.19	53.95	52.24	48.48	45.68	46.85	46.80
Total GW Withdrawals	GW	1.88	1.66	1.61	1.59	1.73	1.62	1.66	1.68	1.57	1.57	1.63	1.62	1.65
Withdrawal Total		45.85	47.11	45.68	45.24	48.77	40.30	52.85	55.63	53.81	50.05	47.30	48.47	48.45
Total Returns		**51.85**	**49.93**	**51.66**	**48.44**	**51.47**	**41.98**	**53.19**	**59.43**	**49.42**	**47.61**	**50.77**	**55.64**	**50.95**
Net SW (MGD)	**SW**	**-7.88**	**-4.48**	**-7.58**	**-4.79**	**-4.42**	**-3.30**	**-2.01**	**-5.48**	**2.83**	**0.87**	**-5.10**	**-8.79**	**-4.18**


CHOCTAW
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
4.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

CLARKE

Population	24,675
Pop served by public supply	17,759

2015 Demands

Withdrawals

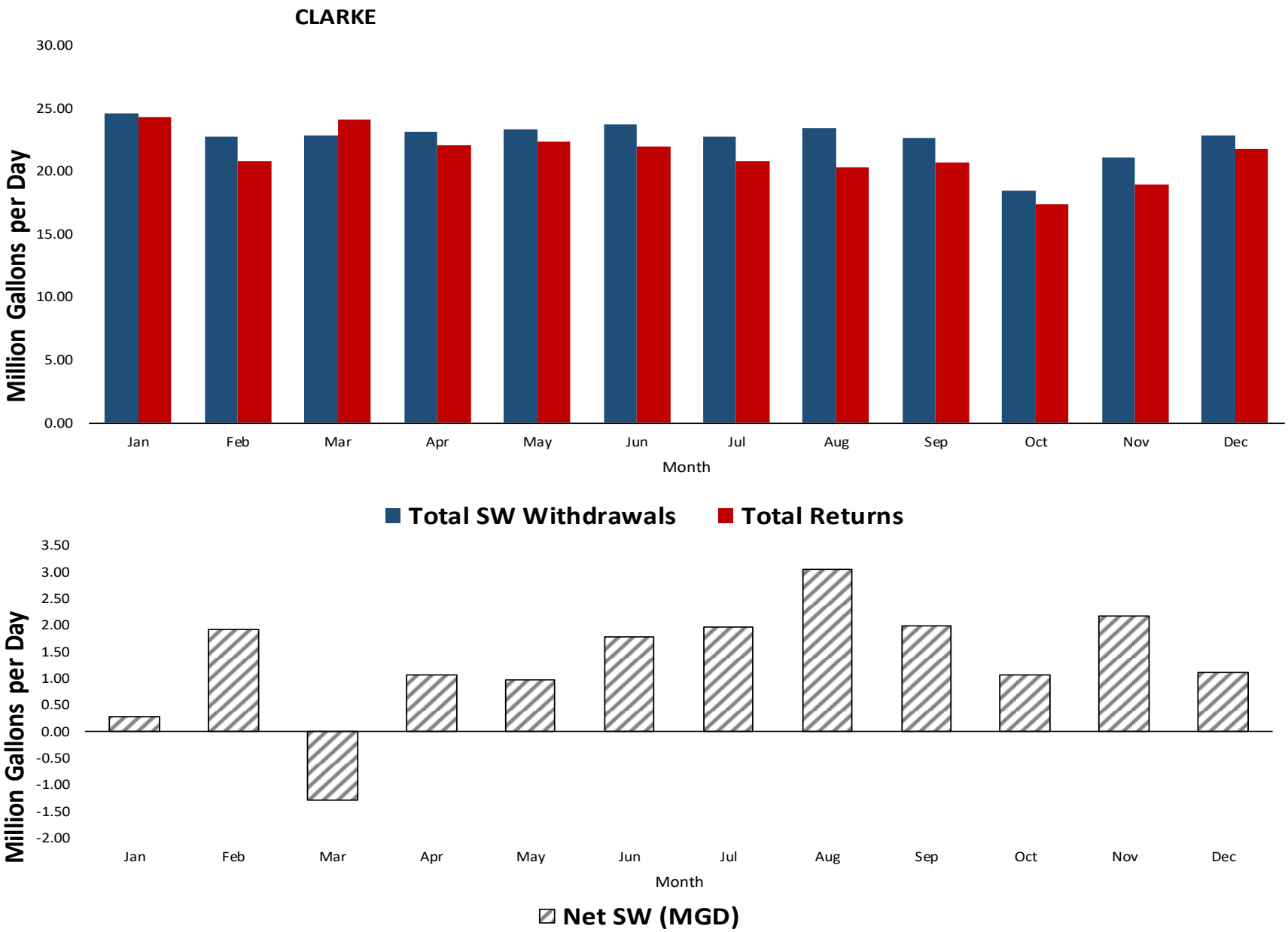
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.05	2.93	2.91	3.18	2.90	3.01	3.07	2.88	2.98	2.93	2.83	2.75	2.95
Public Supply	SW	0.10	0.12	0.01	0.03	0.12	0.06	0.03	0.16	0.11	0.13	0.04	0.05	0.08
Industrial/Mining	GW	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Industrial/Mining	SW	24.26	22.39	22.59	22.69	22.69	23.09	22.17	22.67	22.04	17.80	20.76	22.59	22.14
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	0.03	0.05	0.08	0.08	0.07	0.04	0.03	0.02	0.02	0.04
Agriculture	SW	0.23	0.21	0.23	0.41	0.50	0.54	0.55	0.57	0.53	0.47	0.26	0.24	0.40
Total	**GW**	**3.93**	**3.81**	**3.79**	**4.08**	**3.81**	**3.95**	**4.02**	**3.80**	**3.88**	**3.82**	**3.72**	**3.63**	**3.85**
Total	**SW**	**24.58**	**22.72**	**22.84**	**23.13**	**23.31**	**23.69**	**22.74**	**23.40**	**22.68**	**18.40**	**21.06**	**22.87**	**22.62**

Returns

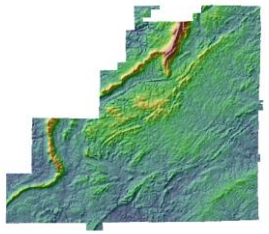
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.51	1.41	2.04	0.67	0.74	1.63	1.58	1.15	0.50	0.65	1.79	1.97	1.30
Industrial/Mining		22.80	19.40	22.10	21.40	21.60	20.30	19.20	19.20	20.20	16.70	17.10	19.80	19.98
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**24.31**	**20.81**	**24.14**	**22.07**	**22.34**	**21.93**	**20.78**	**20.35**	**20.70**	**17.35**	**18.89**	**21.77**	**21.29**

CLARKE — **2015 FINAL DATA**

Total SW Withdrawals	SW	24.58	22.72	22.84	23.13	23.31	23.69	22.74	23.40	22.68	18.40	21.06	22.87	22.62
Total GW Withdrawals	GW	3.93	3.81	3.79	4.08	3.81	3.95	4.02	3.80	3.88	3.82	3.72	3.63	3.85
Withdrawal Total		28.52	26.53	26.63	27.21	27.13	27.64	26.76	27.20	26.55	22.23	24.77	26.50	26.47
Total Returns		**24.31**	**20.81**	**24.14**	**22.07**	**22.34**	**21.93**	**20.78**	**20.35**	**20.70**	**17.35**	**18.89**	**21.77**	**21.29**
Net SW (MGD)	**SW**	**0.27**	**1.91**	**-1.30**	**1.06**	**0.97**	**1.76**	**1.96**	**3.05**	**1.98**	**1.05**	**2.17**	**1.10**	**1.33**


CLARKE
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
-0.50
-1.00
-1.50
-2.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

CLAY



Population	13,555
Pop served by public supply	5,970

2015 Demands

Withdrawals

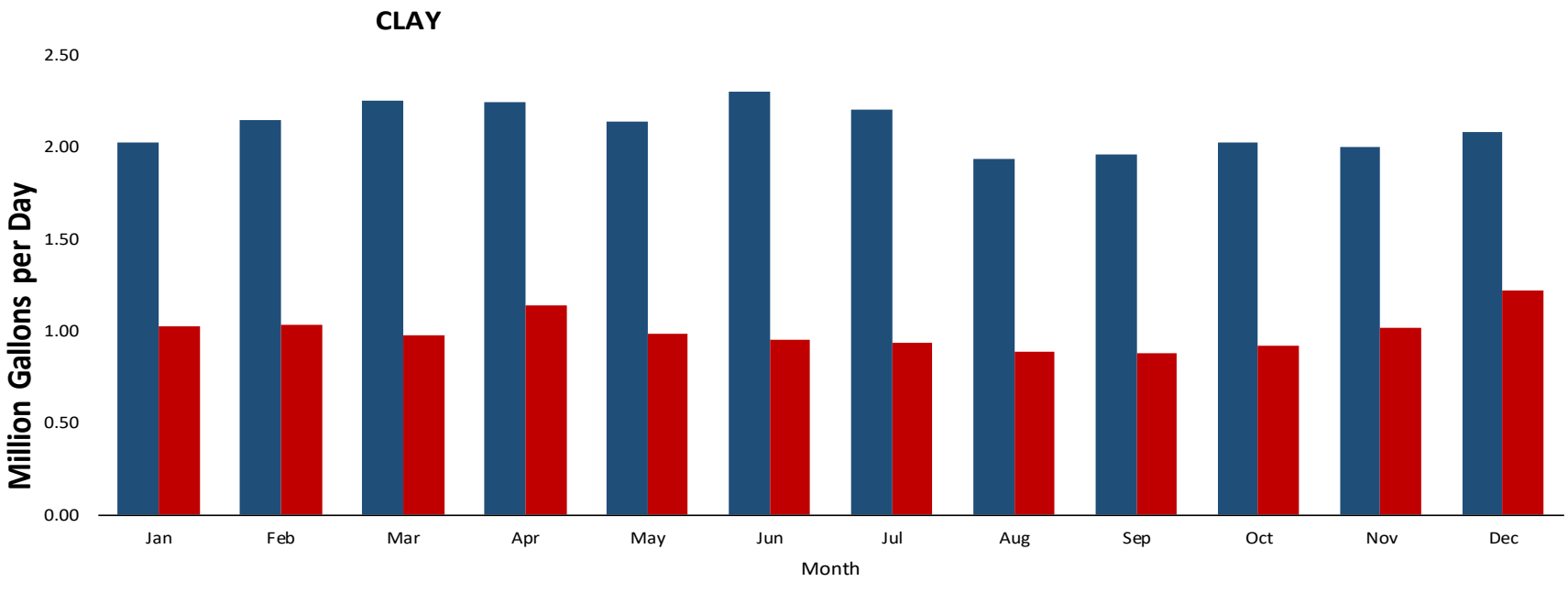
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Public Supply	SW	1.76	1.88	1.98	1.87	1.75	1.90	1.80	1.57	1.64	1.72	1.70	1.79	1.78
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Agriculture	SW	0.26	0.27	0.27	0.38	0.39	0.41	0.41	0.37	0.32	0.31	0.30	0.29	0.33
Total	**GW**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**
Total	**SW**	**2.02**	**2.15**	**2.25**	**2.25**	**2.14**	**2.31**	**2.21**	**1.94**	**1.96**	**2.03**	**2.00**	**2.08**	**2.11**

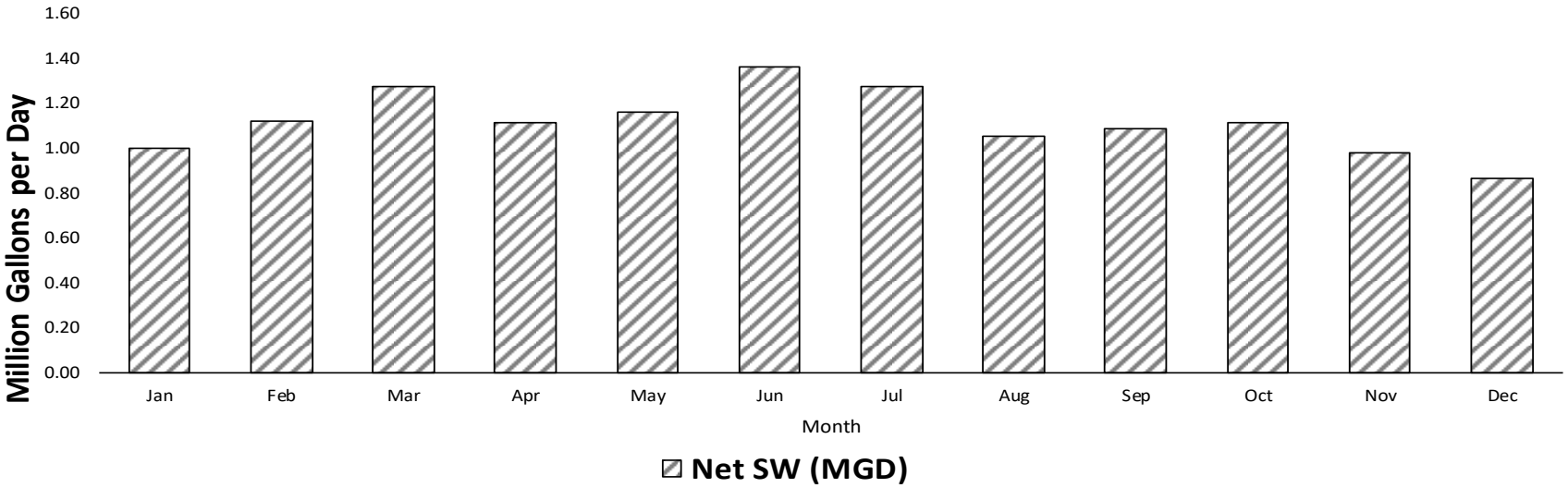
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.02	1.03	0.98	1.14	0.98	0.95	0.93	0.88	0.88	0.92	1.02	1.22	1.00
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		**1.02**	**1.03**	**0.98**	**1.14**	**0.98**	**0.95**	**0.93**	**0.88**	**0.88**	**0.92**	**1.02**	**1.22**	**1.00**

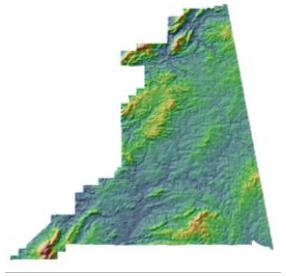
CLAY — **2015 FINAL DATA**

Total SW Withdrawals	SW	2.02	2.15	2.25	2.25	2.14	2.31	2.21	1.94	1.96	2.03	2.00	2.08	2.11
Total GW Withdrawals	GW	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Withdrawal Total		2.51	2.64	2.74	2.74	2.63	2.79	2.69	2.42	2.44	2.52	2.49	2.57	2.60
Total Returns		**1.02**	**1.03**	**0.98**	**1.14**	**0.98**	**0.95**	**0.93**	**0.88**	**0.88**	**0.92**	**1.02**	**1.22**	**1.00**
Net SW (MGD)	**SW**	**1.00**	**1.12**	**1.27**	**1.11**	**1.16**	**1.36**	**1.27**	**1.05**	**1.08**	**1.11**	**0.98**	**0.86**	**1.11**


CLAY
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
1.60
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)

CLEBURNE



Population	15,018
Pop served by public supply	6,613

2015 Demands

Withdrawals

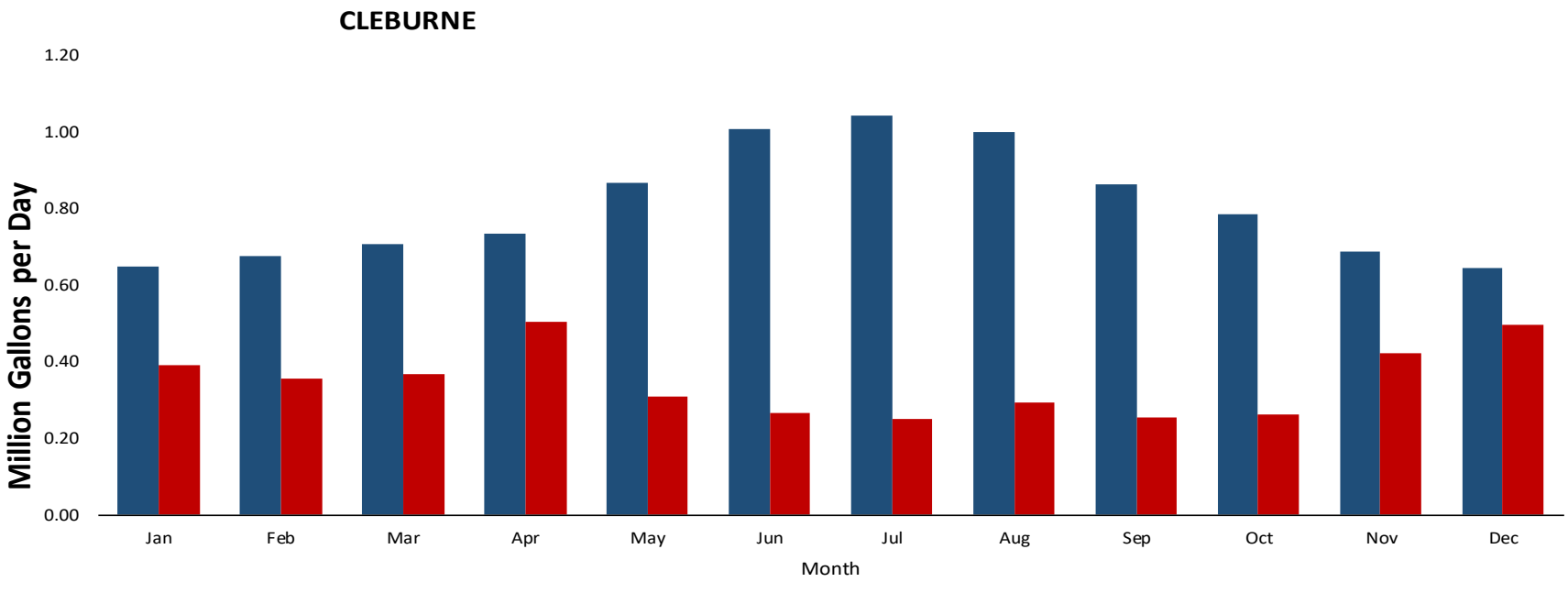
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Public Supply	SW	0.46	0.46	0.46	0.45	0.50	0.52	0.54	0.55	0.52	0.48	0.45	0.43	0.49
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Agriculture	SW	0.19	0.22	0.25	0.28	0.37	0.48	0.50	0.45	0.34	0.30	0.24	0.22	0.32
Total	**GW**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**	**1.09**
Total	**SW**	**0.65**	**0.68**	**0.71**	**0.73**	**0.87**	**1.01**	**1.04**	**1.00**	**0.86**	**0.78**	**0.69**	**0.65**	**0.81**

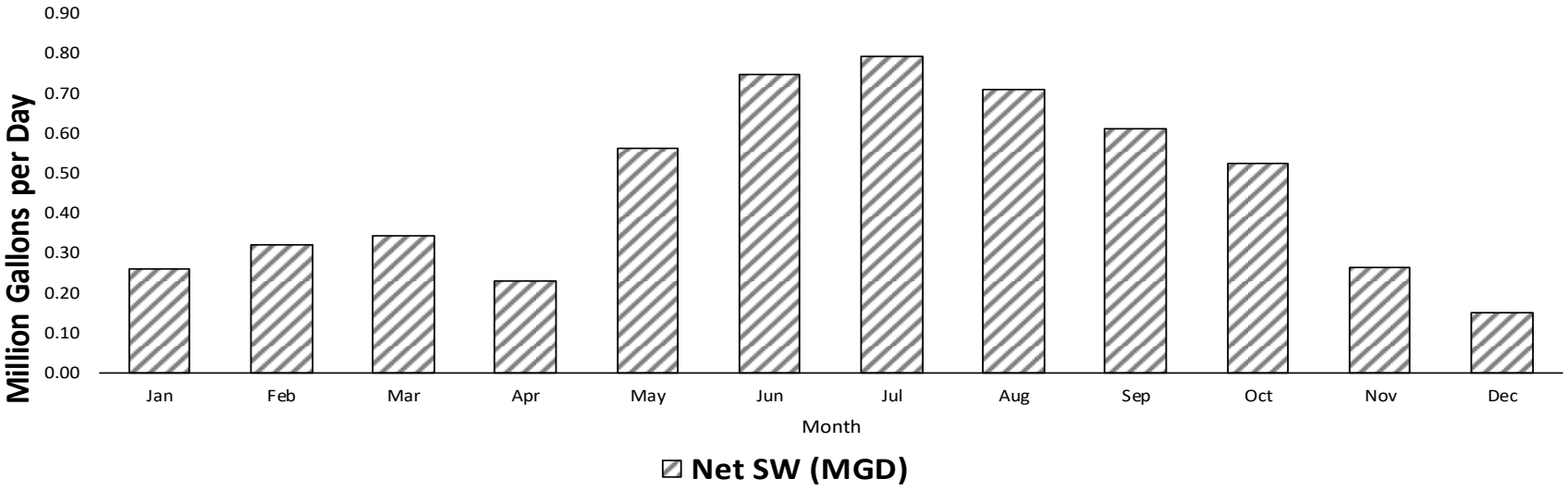
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.39	0.36	0.37	0.51	0.31	0.26	0.25	0.29	0.25	0.26	0.42	0.50	0.35
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		**0.39**	**0.36**	**0.37**	**0.51**	**0.31**	**0.26**	**0.25**	**0.29**	**0.25**	**0.26**	**0.42**	**0.50**	**0.35**

CLEBURNE — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.65	0.68	0.71	0.73	0.87	1.01	1.04	1.00	0.86	0.78	0.69	0.65	0.81
Total GW Withdrawals	GW	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Withdrawal Total		1.74	1.77	1.80	1.83	1.96	2.10	2.14	2.10	1.96	1.88	1.78	1.74	1.90
Total Returns		**0.39**	**0.36**	**0.37**	**0.51**	**0.31**	**0.26**	**0.25**	**0.29**	**0.25**	**0.26**	**0.42**	**0.50**	**0.35**
Net SW (MGD)	**SW**	**0.26**	**0.32**	**0.34**	**0.23**	**0.56**	**0.74**	**0.79**	**0.71**	**0.61**	**0.52**	**0.26**	**0.15**	**0.46**


CLEBURNE
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
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Jun
Jul
Aug
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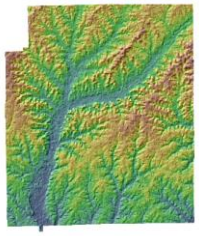
Oct
Nov
Dec
Month
Net SW (MGD)

COFFEE



Population	51,211
Pop served by public supply	42,461

2015 Demands

Withdrawals

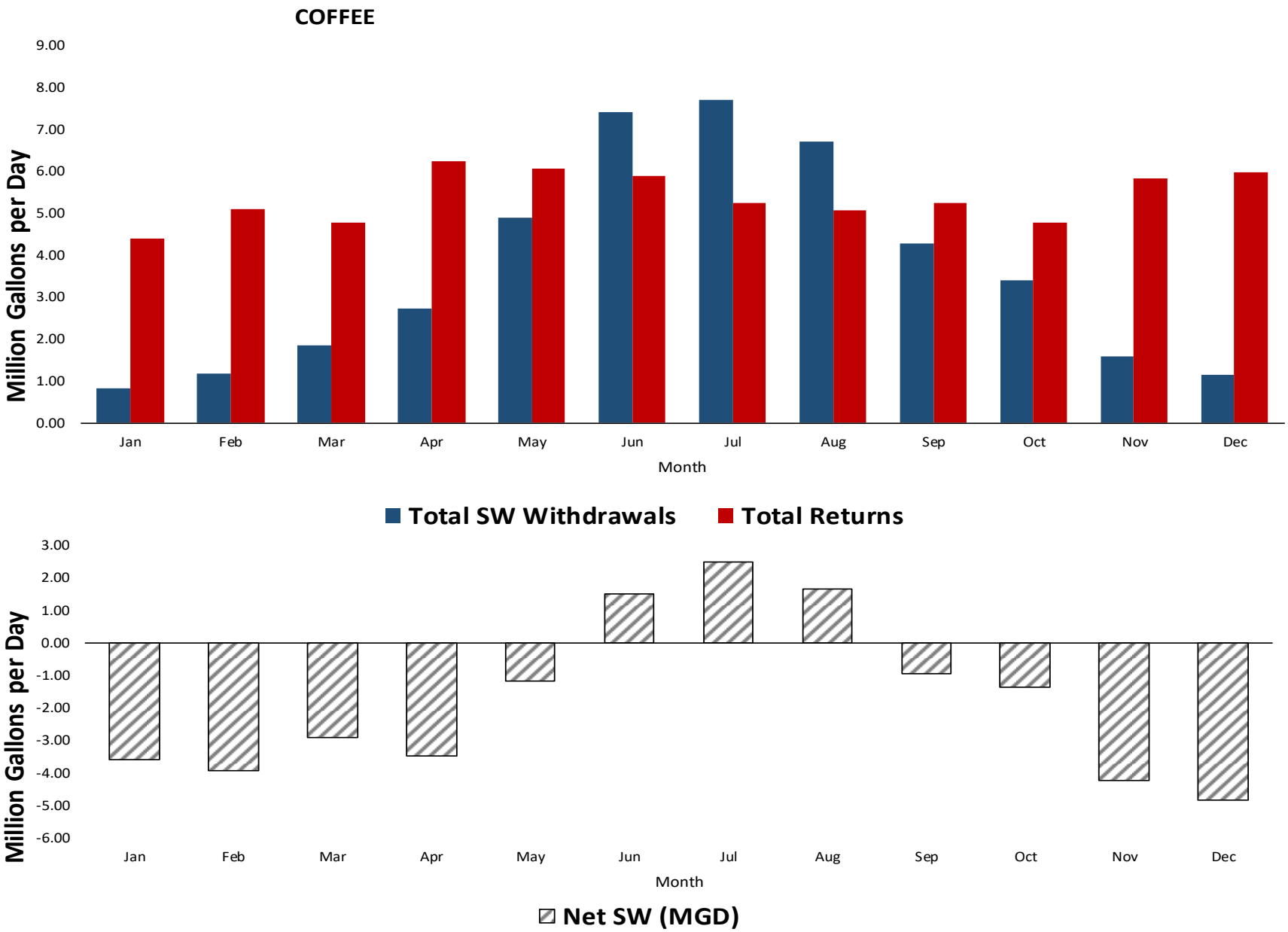
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.75	5.50	5.61	6.64	8.10	9.09	8.91	8.67	8.09	7.07	6.31	5.94	7.15
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.60	1.67	1.89	1.73	1.66	1.72	1.67	1.67	1.83	1.84	1.76	1.80	1.74
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	0.51	0.54	0.69	0.83	1.27	1.86	1.94	1.59	1.01	0.87	0.60	0.53	1.02
Agriculture	SW	0.81	1.16	1.86	2.74	4.89	7.40	7.70	6.71	4.27	3.40	1.59	1.13	3.65
Total	**GW**	**7.87**	**7.71**	**8.19**	**9.20**	**11.02**	**12.67**	**12.51**	**11.93**	**10.92**	**9.78**	**8.67**	**8.27**	**9.91**
Total	**SW**	**0.81**	**1.16**	**1.86**	**2.74**	**4.89**	**7.40**	**7.70**	**6.71**	**4.27**	**3.40**	**1.59**	**1.13**	**3.65**

Returns

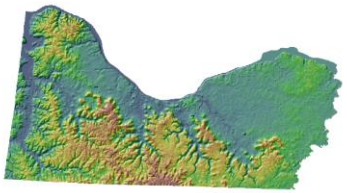
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.77	2.83	3.11	4.38	3.62	3.49	2.86	2.60	2.66	2.45	3.88	4.16	3.23
Industrial/Mining		1.63	2.26	1.66	1.85	2.44	2.41	2.38	2.46	2.57	2.34	1.94	1.81	2.14
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**4.39**	**5.09**	**4.78**	**6.23**	**6.06**	**5.90**	**5.23**	**5.06**	**5.23**	**4.78**	**5.83**	**5.97**	**5.38**

COFFEE — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.81	1.16	1.86	2.74	4.89	7.40	7.70	6.71	4.27	3.40	1.59	1.13	3.65
Total GW Withdrawals	GW	7.87	7.71	8.19	9.20	11.02	12.67	12.51	11.93	10.92	9.78	8.67	8.27	9.91
Withdrawal Total		8.67	8.87	10.04	11.94	15.92	20.07	20.22	18.63	15.20	13.18	10.27	9.40	13.56
Total Returns		**4.39**	**5.09**	**4.78**	**6.23**	**6.06**	**5.90**	**5.23**	**5.06**	**5.23**	**4.78**	**5.83**	**5.97**	**5.38**
Net SW (MGD)	**SW**	**-3.59**	**-3.93**	**-2.92**	**-3.49**	**-1.17**	**1.50**	**2.47**	**1.65**	**-0.96**	**-1.38**	**-4.23**	**-4.84**	**-1.74**


COFFEE
Million Gallons per Day
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
3.00
2.00
1.00
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)

COLBERT



Population	54,354
Pop served by public supply	50,414

2015 Demands

Withdrawals

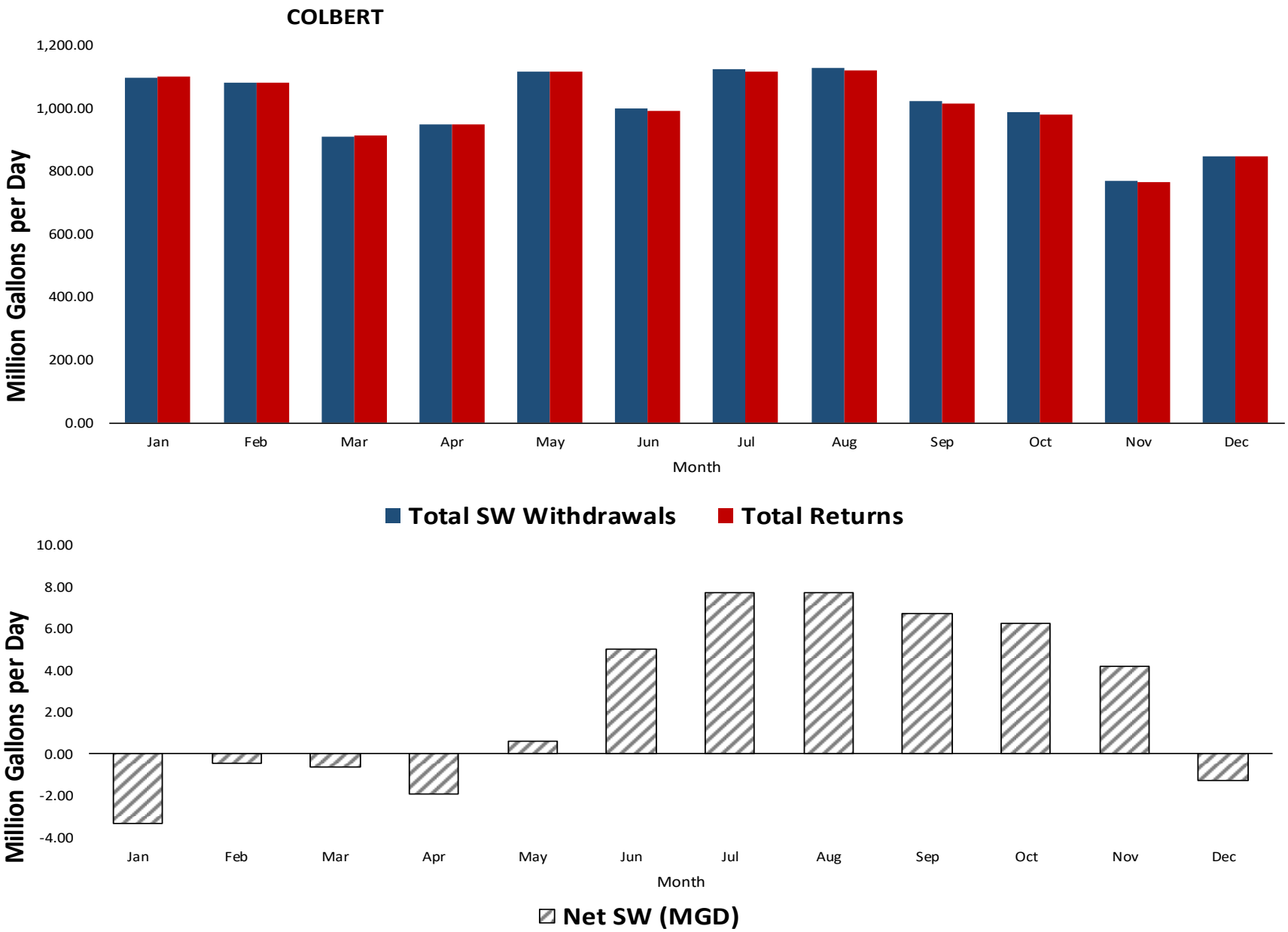
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.04	0.96	0.93	0.93	1.00	1.03	1.02	0.92	0.90	0.90	0.87	0.91	0.95
Public Supply	SW	7.81	7.71	7.34	7.01	7.75	7.48	8.10	7.82	7.89	7.85	7.57	7.63	7.67
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	29.71	28.88	30.60	31.20	25.68	28.31	27.38	30.89	30.21	31.34	31.38	30.79	29.70
Thermoelectric	SW	1,060.06	1,045.32	872.87	908.30	1,082.00	958.00	1,086.00	1,086.00	983.50	946.77	730.23	807.77	963.99
Agriculture	GW	0.26	0.24	0.49	0.68	1.36	2.30	2.42	1.77	0.76	0.55	0.27	0.22	0.95
Agriculture	SW	0.54	0.50	0.92	1.44	2.67	3.89	4.13	3.32	2.13	1.59	0.79	0.51	1.88
Total	**GW**	**1.30**	**1.20**	**1.42**	**1.61**	**2.36**	**3.33**	**3.44**	**2.69**	**1.66**	**1.45**	**1.13**	**1.13**	**1.90**
Total	**SW**	**1,098.11**	**1,082.41**	**911.73**	**947.95**	**1,118.10**	**997.69**	**1,125.61**	**1,128.04**	**1,023.73**	**987.56**	**769.97**	**846.70**	**1,003.23**

Returns

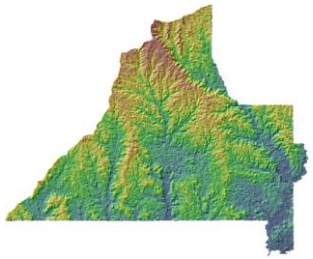
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.31	4.46	5.39	5.44	4.65	4.24	4.30	4.61	3.68	3.71	3.67	6.76	4.68
Industrial/Mining		36.84	33.86	34.86	36.95	31.63	31.24	28.39	30.50	30.66	31.59	32.65	34.23	32.78
Thermoelectric		1,059.26	1,044.52	872.07	907.50	1,081.20	957.20	1,085.20	1,085.20	982.70	945.97	729.43	806.97	963.10
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		**1,101.41**	**1,082.83**	**912.32**	**949.89**	**1,117.48**	**992.68**	**1,117.89**	**1,120.32**	**1,017.04**	**981.28**	**765.76**	**847.96**	**1,000.57**

COLBERT — **2015 FINAL DATA**

Total SW Withdrawals	SW	1,098.11	1,082.41	911.73	947.95	1,118.10	997.69	1,125.61	1,128.04	1,023.73	987.56	769.97	846.70	1,003.23
Total GW Withdrawals	GW	1.30	1.20	1.42	1.61	2.36	3.33	3.44	2.69	1.66	1.45	1.13	1.13	1.90
Withdrawal Total		1,099.41	1,083.61	913.15	949.56	1,120.46	1,001.02	1,129.06	1,130.72	1,025.40	989.01	771.11	847.83	1,005.13
Total Returns		**1,101.41**	**1,082.83**	**912.32**	**949.89**	**1,117.48**	**992.68**	**1,117.89**	**1,120.32**	**1,017.04**	**981.28**	**765.76**	**847.96**	**1,000.57**
Net SW (MGD)	**SW**	**-3.30**	**-0.42**	**-0.60**	**-1.94**	**0.62**	**5.00**	**7.73**	**7.72**	**6.69**	**6.28**	**4.21**	**-1.26**	**2.56**


COLBERT
1,200.00
1,000.00
800.00
600.00
400.00
200.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
-4.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

CONECUH



Population	12,672
Pop served by public supply	6,988

2015 Demands

Withdrawals

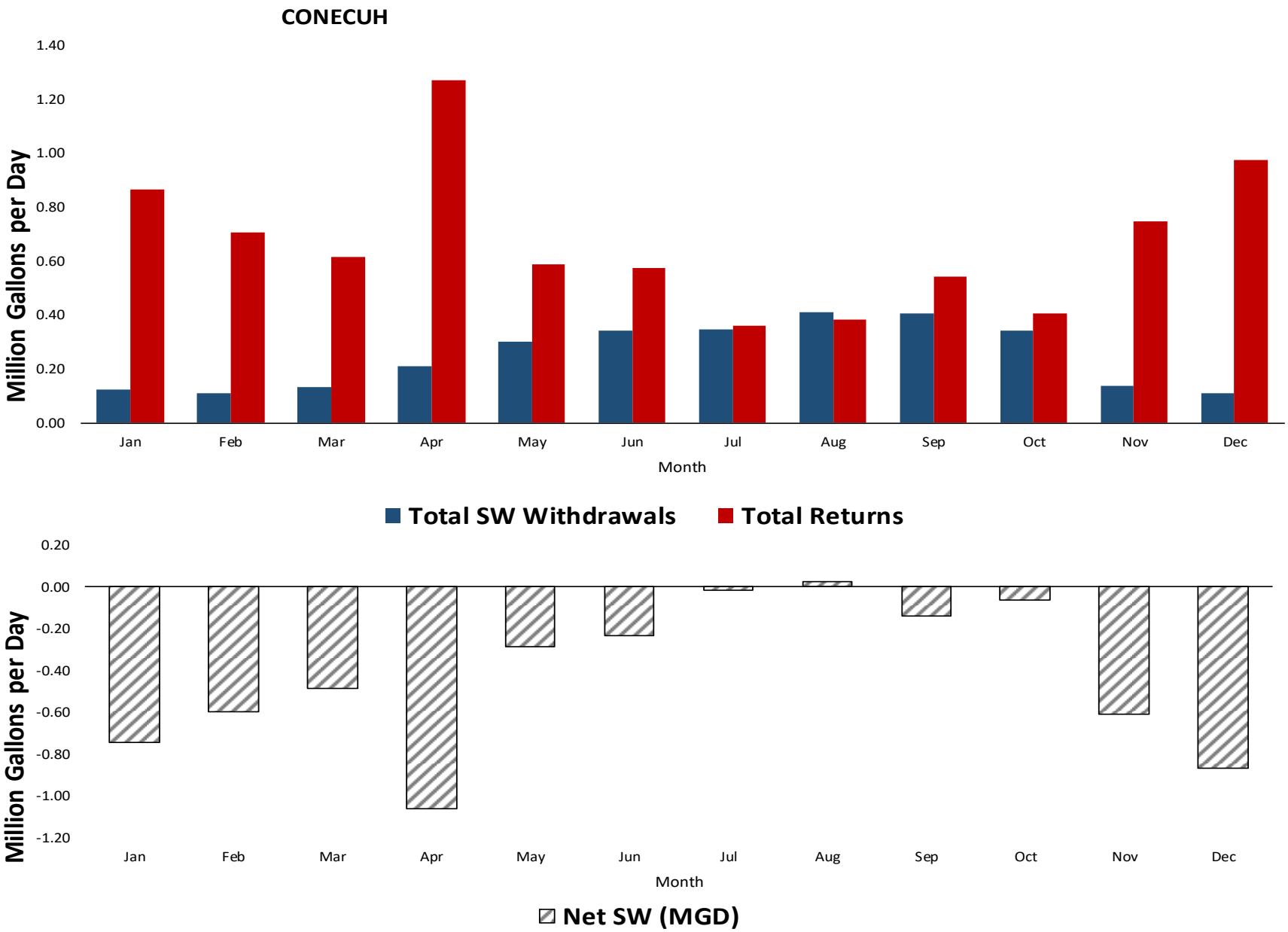
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.29	1.26	1.25	2.31	2.43	1.47	1.45	1.41	1.37	1.19	1.26	1.29	1.50
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Industrial/Mining	SW	0.02	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	0.06	0.06	0.07	0.09	0.13	0.19	0.20	0.16	0.09	0.08	0.06	0.06	0.10
Agriculture	SW	0.10	0.09	0.11	0.19	0.28	0.32	0.33	0.39	0.38	0.32	0.12	0.09	0.23
Total	**GW**	**1.39**	**1.36**	**1.37**	**2.44**	**2.60**	**1.70**	**1.68**	**1.60**	**1.50**	**1.31**	**1.36**	**1.39**	**1.64**
Total	**SW**	**0.12**	**0.11**	**0.13**	**0.21**	**0.30**	**0.34**	**0.35**	**0.41**	**0.40**	**0.34**	**0.14**	**0.11**	**0.25**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.87	0.71	0.62	1.27	0.59	0.54	0.36	0.38	0.54	0.41	0.73	0.98	0.67
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02	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		**0.87**	**0.71**	**0.62**	**1.27**	**0.59**	**0.58**	**0.36**	**0.38**	**0.54**	**0.41**	**0.75**	**0.98**	**0.67**

CONECUH — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.12	0.11	0.13	0.21	0.30	0.34	0.35	0.41	0.40	0.34	0.14	0.11	0.25
Total GW Withdrawals	GW	1.39	1.36	1.37	2.44	2.60	1.70	1.68	1.60	1.50	1.31	1.36	1.39	1.64
Withdrawal Total		1.51	1.47	1.50	2.64	2.90	2.04	2.03	2.01	1.91	1.65	1.49	1.50	1.89
Total Returns		**0.87**	**0.71**	**0.62**	**1.27**	**0.59**	**0.58**	**0.36**	**0.38**	**0.54**	**0.41**	**0.75**	**0.98**	**0.67**
Net SW (MGD)	**SW**	**-0.74**	**-0.60**	**-0.48**	**-1.06**	**-0.29**	**-0.24**	**-0.01**	**0.02**	**-0.14**	**-0.06**	**-0.61**	**-0.87**	**-0.42**


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

COOSA

Population	10,724
Pop served by public supply	5,839

2015 Demands

Withdrawals

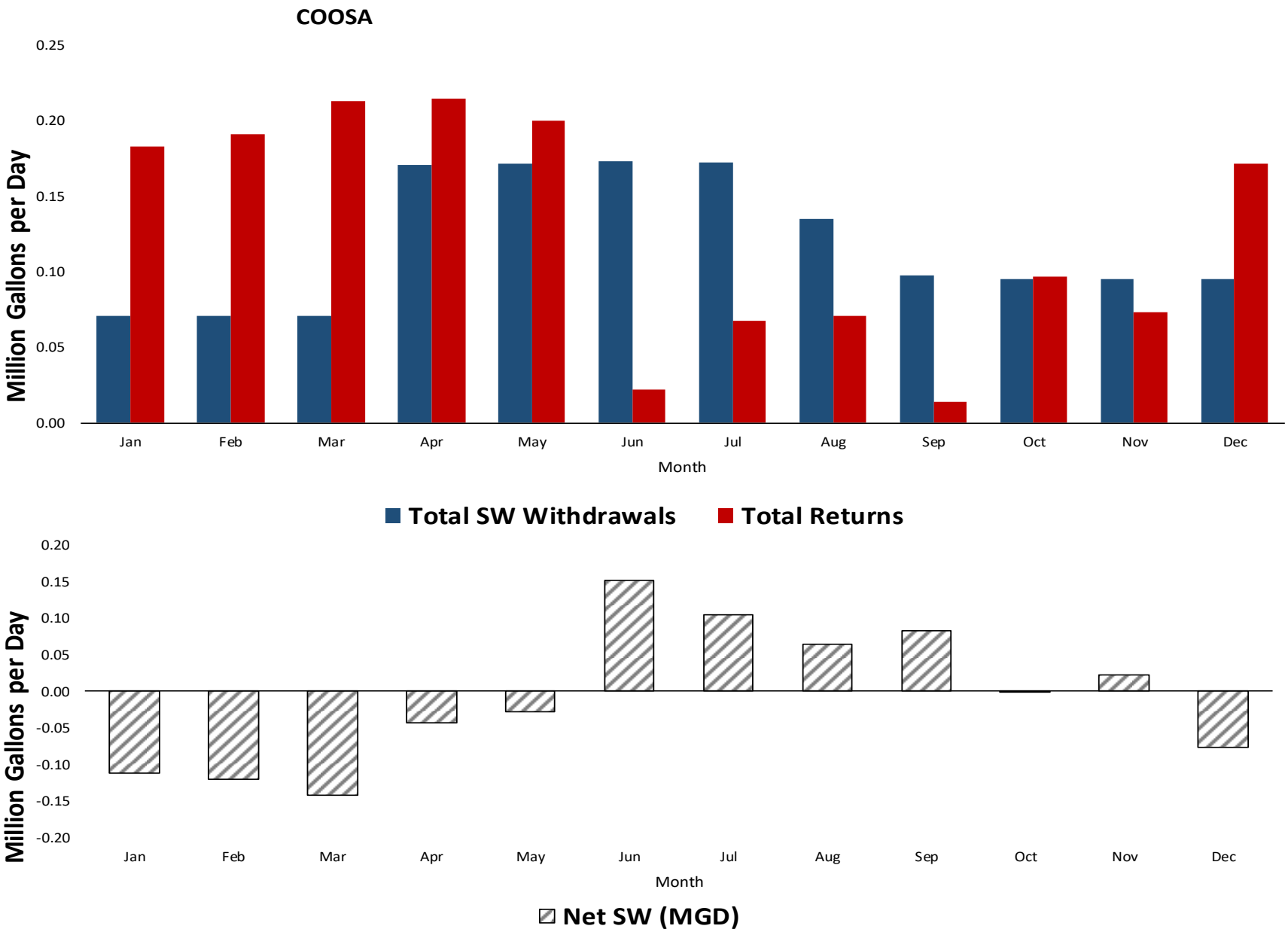
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.62	0.59	0.56	0.65	0.59	0.60	0.59	0.62	0.58	0.60	0.61	0.57	0.60
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
Agriculture	SW	0.07	0.07	0.07	0.17	0.17	0.17	0.17	0.14	0.10	0.10	0.10	0.10	0.12
Total	**GW**	**0.64**	**0.62**	**0.58**	**0.67**	**0.62**	**0.63**	**0.61**	**0.65**	**0.61**	**0.63**	**0.63**	**0.59**	**0.62**
Total	**SW**	**0.07**	**0.07**	**0.07**	**0.17**	**0.17**	**0.17**	**0.17**	**0.14**	**0.10**	**0.10**	**0.10**	**0.10**	**0.12**

Returns

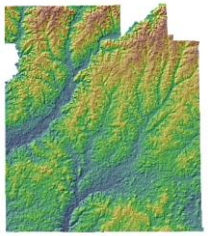
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.18	0.19	0.21	0.21	0.20	0.02	0.07	0.07	0.01	0.10	0.07	0.17	0.13
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**0.18**	**0.19**	**0.21**	**0.21**	**0.20**	**0.02**	**0.07**	**0.07**	**0.01**	**0.10**	**0.07**	**0.17**	**0.13**

COOSA — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.07	0.07	0.07	0.17	0.17	0.17	0.17	0.14	0.10	0.10	0.10	0.10	0.12
Total GW Withdrawals	GW	0.64	0.62	0.58	0.67	0.62	0.63	0.61	0.65	0.61	0.63	0.63	0.59	0.62
Withdrawal Total		0.71	0.69	0.65	0.85	0.79	0.80	0.79	0.78	0.71	0.72	0.72	0.69	0.74
Total Returns		**0.18**	**0.19**	**0.21**	**0.21**	**0.20**	**0.02**	**0.07**	**0.07**	**0.01**	**0.10**	**0.07**	**0.17**	**0.13**
Net SW (MGD)	**SW**	**-0.11**	**-0.12**	**-0.14**	**-0.04**	**-0.03**	**0.15**	**0.10**	**0.06**	**0.08**	**0.00**	**0.02**	**-0.08**	**-0.01**


COOSA
Million Gallons per Day
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
Million Gallons per Day
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

COVINGTON



Population	37,835
Pop served by public supply	24,183

2015 Demands

Withdrawals

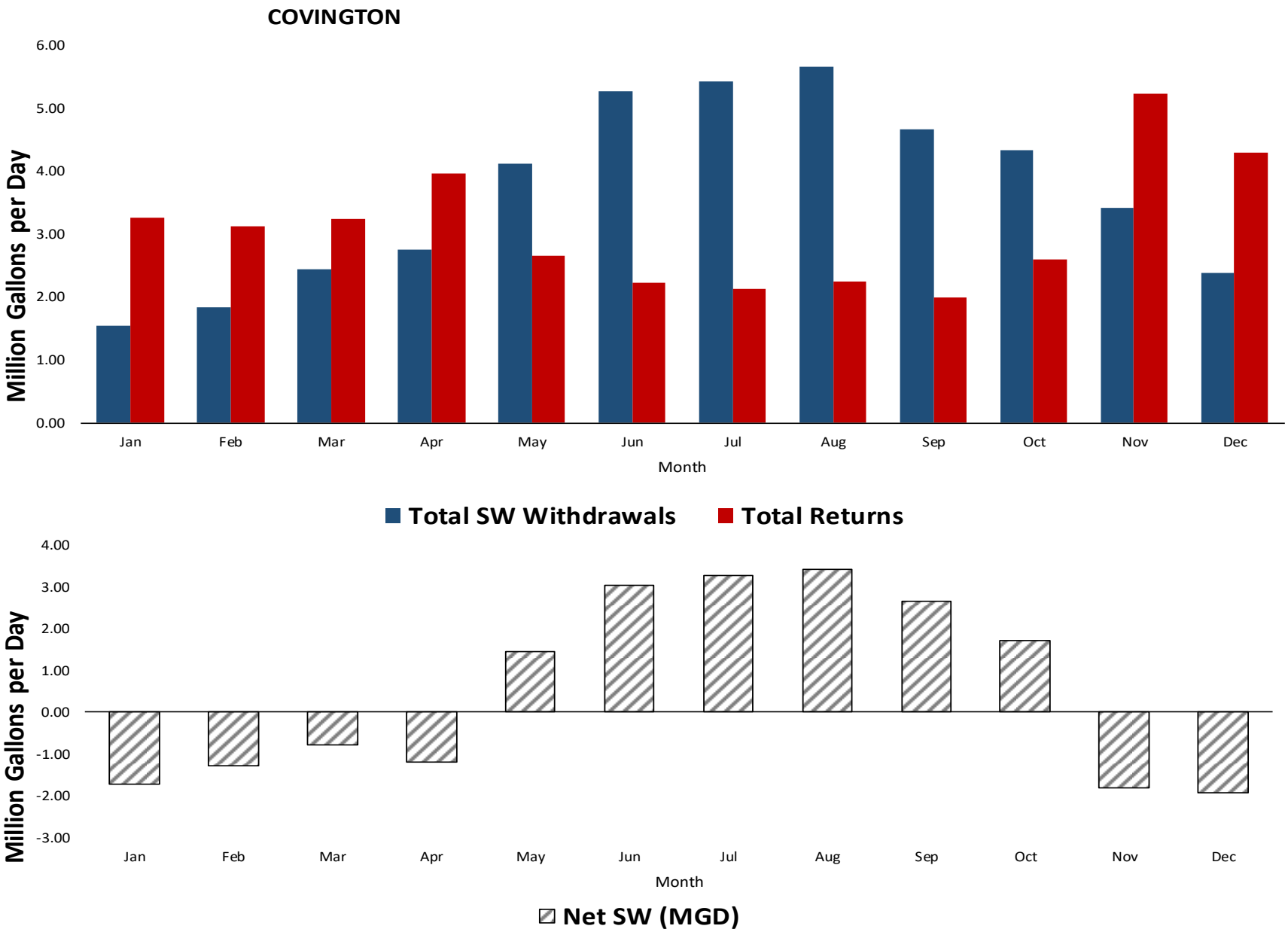
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.34	4.88	4.76	4.90	5.51	5.71	5.78	5.57	5.26	5.00	4.68	4.75	5.10
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.99	0.68	1.02	0.59	1.01	1.34	1.42	1.43	1.10	1.29	1.70	1.15	1.15
Agriculture	GW	0.77	0.92	1.05	1.23	1.67	2.21	2.29	2.20	1.86	1.69	1.16	0.94	1.50
Agriculture	SW	0.57	1.17	1.42	2.16	3.11	3.93	4.00	4.24	3.57	3.04	1.72	1.23	2.52
Total	**GW**	**5.11**	**5.80**	**5.81**	**6.14**	**7.18**	**7.92**	**8.06**	**7.77**	**7.11**	**6.68**	**5.84**	**5.70**	**6.60**
Total	**SW**	**1.55**	**1.84**	**2.44**	**2.75**	**4.12**	**5.27**	**5.42**	**5.67**	**4.66**	**4.33**	**3.42**	**2.38**	**3.67**

Returns

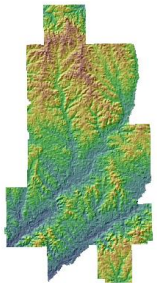
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.12	3.02	3.15	3.88	2.56	2.08	1.97	2.09	1.86	2.47	5.12	4.19	2.96
Industrial/Mining		0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.01
Thermoelectric		0.13	0.10	0.07	0.06	0.08	0.14	0.15	0.15	0.12	0.12	0.10	0.10	0.11
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		**3.26**	**3.13**	**3.24**	**3.96**	**2.66**	**2.23**	**2.14**	**2.25**	**2.00**	**2.60**	**5.23**	**4.30**	**3.08**

COVINGTON — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.55	1.84	2.44	2.75	4.12	5.27	5.42	5.67	4.66	4.33	3.42	2.38	3.67
Total GW Withdrawals	GW	5.11	5.80	5.81	6.14	7.18	7.92	8.06	7.77	7.11	6.68	5.84	5.70	6.60
Withdrawal Total		6.67	7.64	8.26	8.89	11.30	13.18	13.48	13.44	11.78	11.01	9.26	8.08	10.26
Total Returns		**3.26**	**3.13**	**3.24**	**3.96**	**2.66**	**2.23**	**2.14**	**2.25**	**2.00**	**2.60**	**5.23**	**4.30**	**3.08**
Net SW (MGD)	**SW**	**-1.71**	**-1.28**	**-0.79**	**-1.20**	**1.46**	**3.04**	**3.28**	**3.42**	**2.67**	**1.72**	**-1.81**	**-1.92**	**0.57**


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

CRENSHAW



Population	13,963
Pop served by public supply	10,616

2015 Demands

Withdrawals

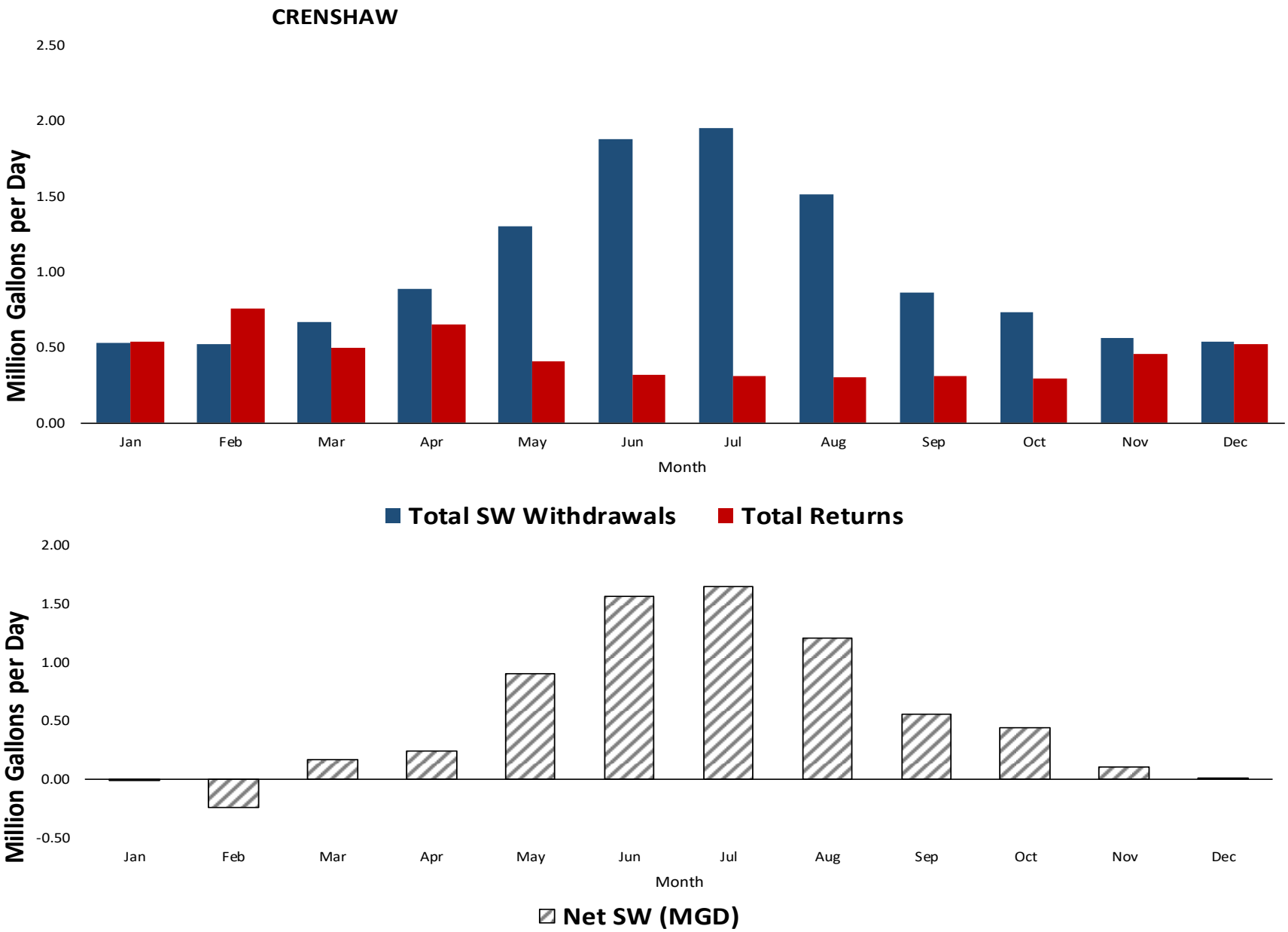
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.09	1.83	1.82	1.79	2.10	2.19	2.22	2.40	2.25	2.18	2.02	2.08	2.08
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30
Agriculture	SW	0.53	0.52	0.67	0.89	1.30	1.88	1.95	1.51	0.86	0.73	0.56	0.53	1.00
Total	**GW**	**2.39**	**2.14**	**2.12**	**2.10**	**2.41**	**2.49**	**2.53**	**2.70**	**2.56**	**2.49**	**2.33**	**2.38**	**2.39**
Total	**SW**	**0.53**	**0.52**	**0.67**	**0.89**	**1.30**	**1.88**	**1.95**	**1.51**	**0.86**	**0.73**	**0.56**	**0.53**	**1.00**

Returns

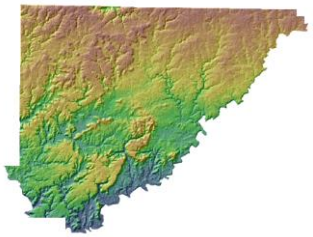
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.53	0.76	0.50	0.65	0.40	0.32	0.31	0.30	0.31	0.29	0.46	0.52	0.45
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**0.53**	**0.76**	**0.50**	**0.65**	**0.40**	**0.32**	**0.31**	**0.30**	**0.31**	**0.29**	**0.46**	**0.52**	**0.45**

CRENSHAW — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.53	0.52	0.67	0.89	1.30	1.88	1.95	1.51	0.86	0.73	0.56	0.53	1.00
Total GW Withdrawals	GW	2.39	2.14	2.12	2.10	2.41	2.49	2.53	2.70	2.56	2.49	2.33	2.38	2.39
Withdrawal Total		2.92	2.66	2.79	2.98	3.71	4.37	4.47	4.22	3.42	3.22	2.88	2.91	3.39
Total Returns		**0.53**	**0.76**	**0.50**	**0.65**	**0.40**	**0.32**	**0.31**	**0.30**	**0.31**	**0.29**	**0.46**	**0.52**	**0.45**
Net SW (MGD)	**SW**	**0.00**	**-0.24**	**0.17**	**0.24**	**0.90**	**1.56**	**1.64**	**1.21**	**0.55**	**0.44**	**0.10**	**0.01**	**0.55**


CRENSHAW
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
2.00
1.50
1.00
0.50
0.00
-0.50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

CULLMAN



Population	82,005
Pop served by public supply	79,424

2015 Demands

Withdrawals

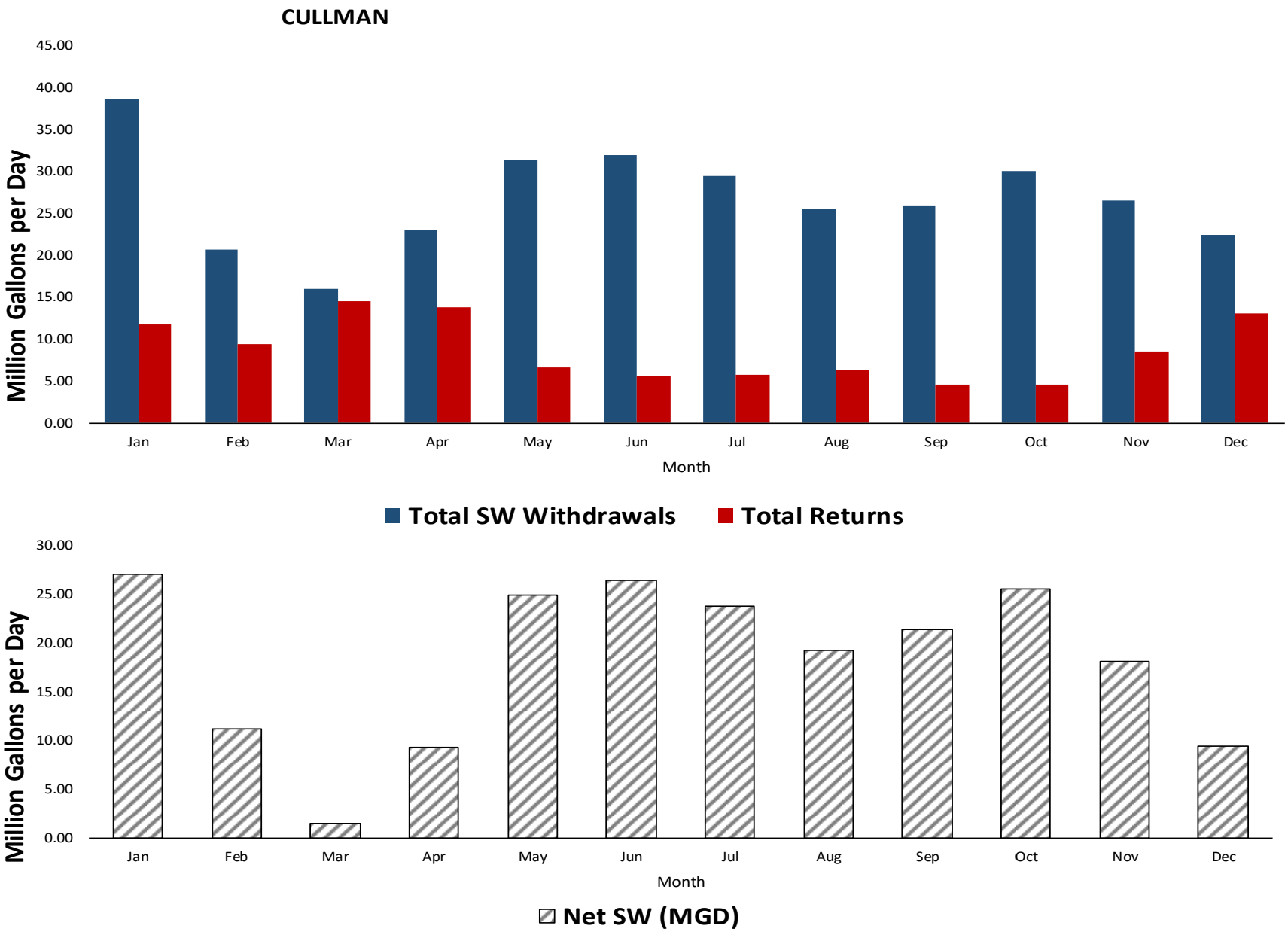
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.58	0.63	0.55	0.44	0.44	0.49	0.51	0.51	0.49	0.46	0.47	0.44	0.50
Public Supply	SW	35.01	17.21	12.99	19.56	27.55	27.66	24.86	20.98	21.38	25.85	22.88	19.21	22.98
Industrial/Mining	GW	0.42	0.31	0.42	1.39	1.44	1.02	0.48	0.00	0.13	1.23	1.18	0.78	0.73
Industrial/Mining	SW	2.77	2.40	1.89	2.06	2.17	2.41	2.61	2.69	2.87	2.69	2.52	2.08	2.43
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	0.92	0.94	0.98	1.03	1.17	1.34	1.37	1.29	1.14	1.09	0.98	0.94	1.10
Agriculture	SW	0.94	1.00	1.08	1.42	1.67	1.89	1.91	1.86	1.61	1.48	1.13	1.05	1.42
Total	**GW**	**1.91**	**1.88**	**1.95**	**2.86**	**3.04**	**2.85**	**2.36**	**1.80**	**1.76**	**2.78**	**2.62**	**2.16**	**2.33**
Total	**SW**	**38.73**	**20.61**	**15.96**	**23.03**	**31.39**	**31.97**	**29.38**	**25.53**	**25.86**	**30.01**	**26.53**	**22.35**	**26.83**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		10.79	8.63	12.72	12.71	5.85	4.93	5.00	5.58	3.82	3.77	7.72	12.20	7.81
Industrial/Mining		0.88	0.80	1.81	1.06	0.70	0.69	0.70	0.75	0.67	0.74	0.76	0.81	0.86
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		**11.67**	**9.43**	**14.53**	**13.76**	**6.55**	**5.62**	**5.70**	**6.33**	**4.49**	**4.50**	**8.48**	**13.01**	**8.67**

CULLMAN — **2015 FINAL DATA**

Total SW Withdrawals	SW	38.73	20.61	15.96	23.03	31.39	31.97	29.38	25.53	25.86	30.01	26.53	22.35	26.83
Total GW Withdrawals	GW	1.91	1.88	1.95	2.86	3.04	2.85	2.36	1.80	1.76	2.78	2.62	2.16	2.33
Withdrawal Total		40.64	22.49	17.91	25.89	34.43	34.81	31.74	27.33	27.63	32.80	29.16	24.51	29.16
Total Returns		**11.67**	**9.43**	**14.53**	**13.76**	**6.55**	**5.62**	**5.70**	**6.33**	**4.49**	**4.50**	**8.48**	**13.01**	**8.67**
Net SW (MGD)	**SW**	**27.05**	**11.18**	**1.43**	**9.27**	**24.83**	**26.35**	**23.69**	**19.19**	**21.37**	**25.51**	**18.06**	**9.34**	**18.11**


CULLMAN
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
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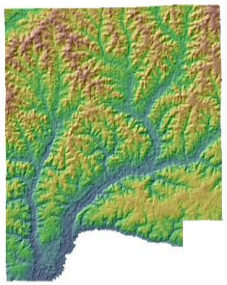
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

DALE



Population	49,565
Pop served by public supply	40,468

2015 Demands

Withdrawals

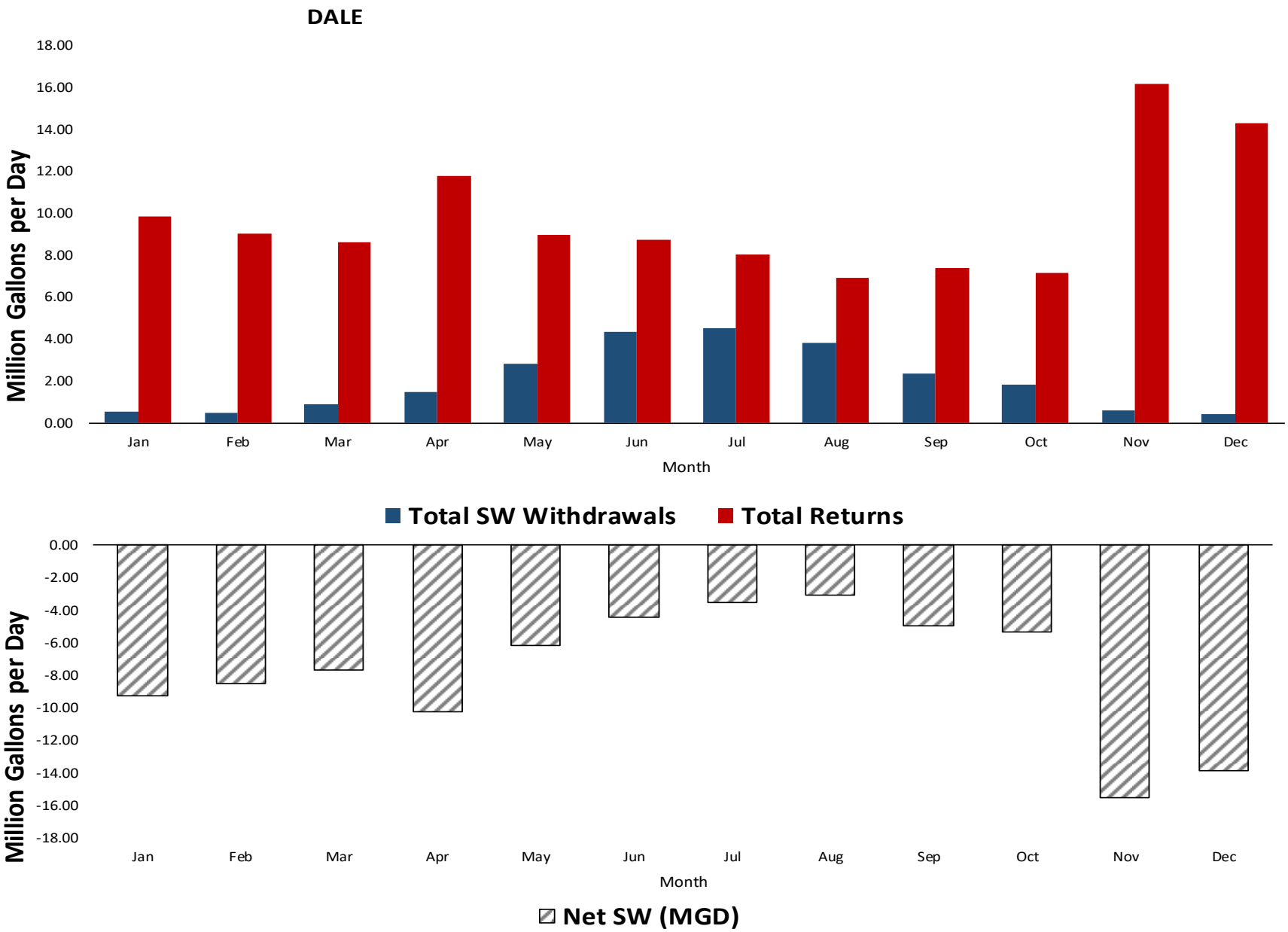
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	6.14	6.11	5.71	6.54	7.63	7.41	7.85	7.50	7.04	5.42	4.91	6.63	6.58
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Industrial/Mining	SW	0.03	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	0.23	0.23	0.32	0.39	0.65	1.00	1.04	0.81	0.45	0.37	0.25	0.22	0.50
Agriculture	SW	0.51	0.43	0.87	1.45	2.79	4.29	4.49	3.79	2.34	1.79	0.56	0.40	1.99
Total	**GW**	**6.42**	**6.39**	**6.08**	**6.98**	**8.32**	**8.46**	**8.94**	**8.37**	**7.54**	**5.84**	**5.21**	**6.90**	**7.13**
Total	**SW**	**0.54**	**0.46**	**0.90**	**1.48**	**2.82**	**4.32**	**4.52**	**3.82**	**2.37**	**1.82**	**0.59**	**0.43**	**2.02**

Returns

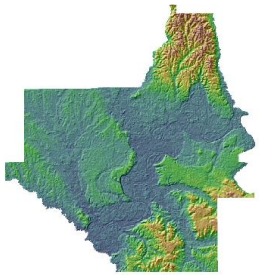
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		9.83	8.99	8.60	11.76	8.97	8.75	8.03	6.94	7.36	7.16	16.17	14.31	9.74
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**9.83**	**8.99**	**8.60**	**11.76**	**8.97**	**8.75**	**8.03**	**6.94**	**7.36**	**7.16**	**16.17**	**14.31**	**9.74**

DALE — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.54	0.46	0.90	1.48	2.82	4.32	4.52	3.82	2.37	1.82	0.59	0.43	2.02
Total GW Withdrawals	GW	6.42	6.39	6.08	6.98	8.32	8.46	8.94	8.37	7.54	5.84	5.21	6.90	7.13
Withdrawal Total		6.96	6.85	6.98	8.46	11.14	12.78	13.47	12.19	9.91	7.66	5.80	7.33	9.14
Total Returns		**9.83**	**8.99**	**8.60**	**11.76**	**8.97**	**8.75**	**8.03**	**6.94**	**7.36**	**7.16**	**16.17**	**14.31**	**9.74**
Net SW (MGD)	**SW**	**-9.29**	**-8.54**	**-7.71**	**-10.28**	**-6.15**	**-4.43**	**-3.51**	**-3.11**	**-4.99**	**-5.34**	**-15.57**	**-13.88**	**-7.73**


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

DALLAS



Population	41,131
Pop served by public supply	31,711

2015 Demands

Withdrawals

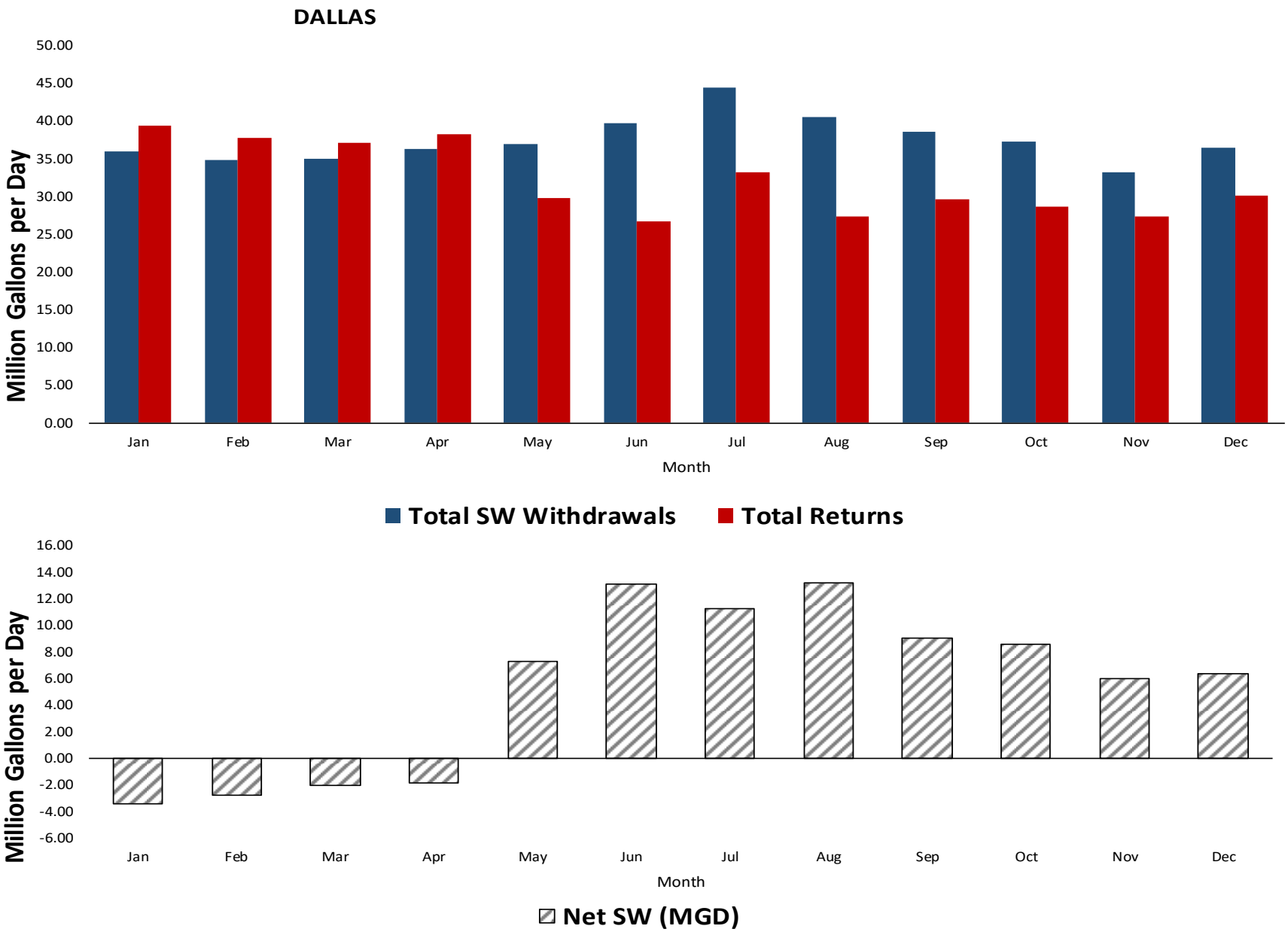
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	6.35	6.31	6.50	6.42	6.35	6.82	7.05	7.01	6.87	6.74	5.76	6.69	6.58
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.75	0.67	0.76	0.77	0.76	0.74	0.73	0.72	0.75	0.77	0.76	0.66	0.74
Industrial/Mining	SW	31.62	30.12	29.82	30.32	29.52	30.62	35.12	31.72	31.32	30.62	28.02	31.62	30.88
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	8.23	8.33	8.37	8.45	8.61	8.79	8.82	8.88	8.85	8.78	8.48	8.35	8.58
Agriculture	SW	4.35	4.77	5.23	5.98	7.47	9.13	9.32	8.83	7.25	6.60	5.20	4.78	6.59
Total	**GW**	**15.32**	**15.31**	**15.63**	**15.64**	**15.72**	**16.35**	**16.60**	**16.62**	**16.46**	**16.29**	**15.00**	**15.69**	**15.89**
Total	**SW**	**35.97**	**34.89**	**35.05**	**36.30**	**36.99**	**39.75**	**44.44**	**40.55**	**38.57**	**37.22**	**33.22**	**36.40**	**37.47**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.40	3.66	4.25	5.25	4.42	4.18	3.16	2.85	2.49	2.37	3.02	4.35	3.70
Industrial/Mining		35.03	34.04	32.85	32.95	25.34	22.48	30.05	24.53	27.09	26.35	24.24	25.72	28.39
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		**39.43**	**37.70**	**37.10**	**38.20**	**29.76**	**26.66**	**33.21**	**27.37**	**29.57**	**28.71**	**27.26**	**30.08**	**32.09**

DALLAS — **2015 FINAL DATA**

Total SW Withdrawals	SW	35.97	34.89	35.05	36.30	36.99	39.75	44.44	40.55	38.57	37.22	33.22	36.40	37.47
Total GW Withdrawals	GW	15.32	15.31	15.63	15.64	15.72	16.35	16.60	16.62	16.46	16.29	15.00	15.69	15.89
Withdrawal Total		51.29	50.19	50.68	51.94	52.72	56.10	61.04	57.17	55.03	53.51	48.22	52.09	53.36
Total Returns		**39.43**	**37.70**	**37.10**	**38.20**	**29.76**	**26.66**	**33.21**	**27.37**	**29.57**	**28.71**	**27.26**	**30.08**	**32.09**
Net SW (MGD)	**SW**	**-3.46**	**-2.82**	**-2.05**	**-1.89**	**7.23**	**13.09**	**11.23**	**13.18**	**8.99**	**8.51**	**5.96**	**6.32**	**5.36**


DALLAS
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
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
-2.00
-4.00
-6.00
Jan
Feb
Mar
Apr
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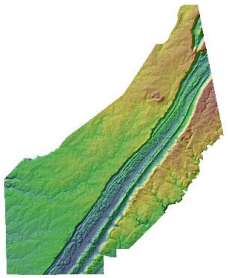
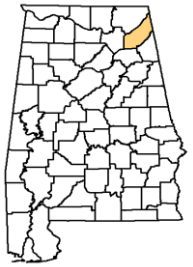
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

DEKALB





Population	71,130
Pop served by public supply	51,765

2015 Demands

Withdrawals

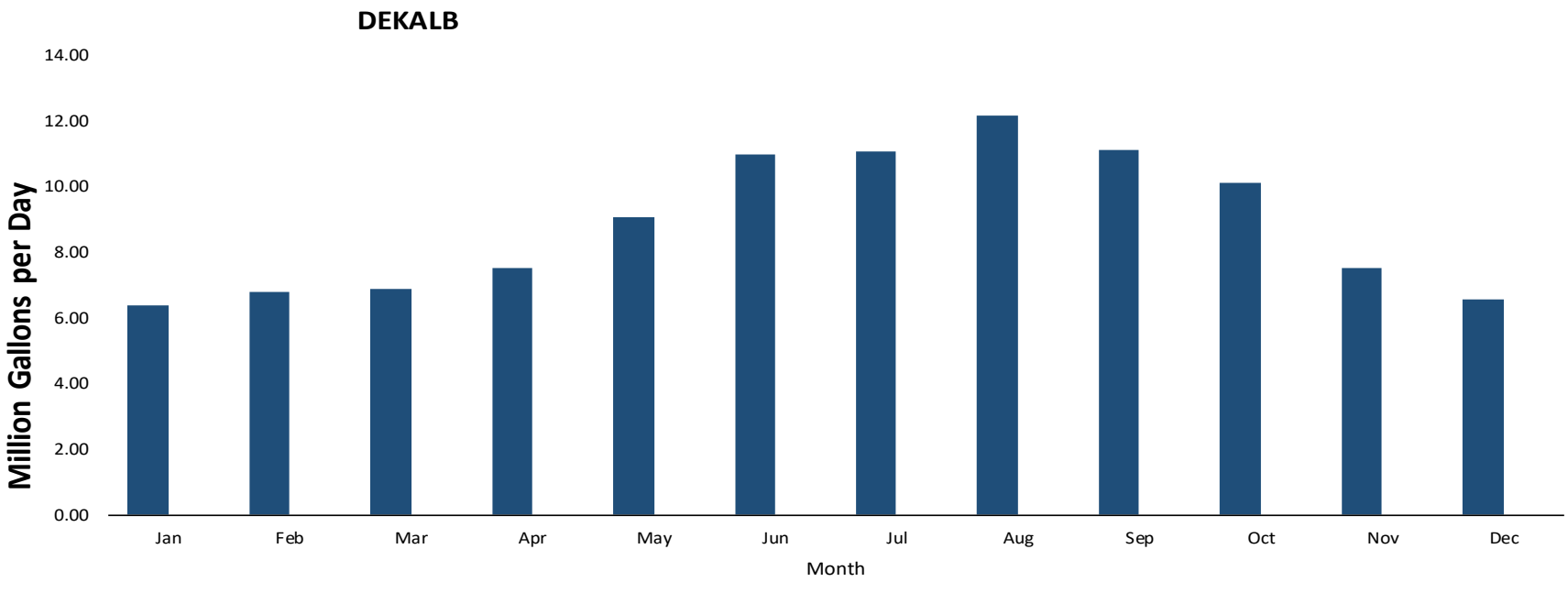
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.66	1.67	1.67	1.66	1.69	1.69	1.67	1.67	1.68	1.66	1.66	1.65	1.67
Public Supply	SW	5.00	4.80	4.70	4.60	5.27	6.64	6.70	7.23	6.54	6.09	4.95	4.50	5.59
Industrial/Mining	GW	0.65	0.54	0.55	0.55	0.57	0.61	0.54	0.48	0.55	0.61	0.63	0.59	0.57
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	1.23	1.30	1.33	1.39	1.51	1.65	1.67	1.71	1.67	1.61	1.40	1.31	1.48
Agriculture	SW	1.36	1.97	2.18	2.94	3.78	4.34	4.38	4.92	4.56	4.03	2.57	2.05	3.26
Total	**GW**	**3.54**	**3.51**	**3.55**	**3.60**	**3.77**	**3.96**	**3.88**	**3.86**	**3.89**	**3.89**	**3.69**	**3.55**	**3.73**
Total	**SW**	**6.36**	**6.77**	**6.88**	**7.54**	**9.05**	**10.98**	**11.07**	**12.15**	**11.10**	**10.12**	**7.52**	**6.55**	**8.85**

Returns

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**

DEKALB — **2015 FINAL DATA**

Total SW Withdrawals	SW	6.36	6.77	6.88	7.54	9.05	10.98	11.07	12.15	11.10	10.12	7.52	6.55	8.85
Total GW Withdrawals	GW	3.54	3.51	3.55	3.60	3.77	3.96	3.88	3.86	3.89	3.89	3.69	3.55	3.73
Withdrawal Total		9.90	10.29	10.43	11.14	12.82	14.93	14.95	16.01	14.99	14.01	11.21	10.10	12.58
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**	**6.36**	**6.77**	**6.88**	**7.54**	**9.05**	**10.98**	**11.07**	**12.15**	**11.10**	**10.12**	**7.52**	**6.55**	**8.84**


DEKALB
Million Gallons per Day
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Jan
Feb
Mar
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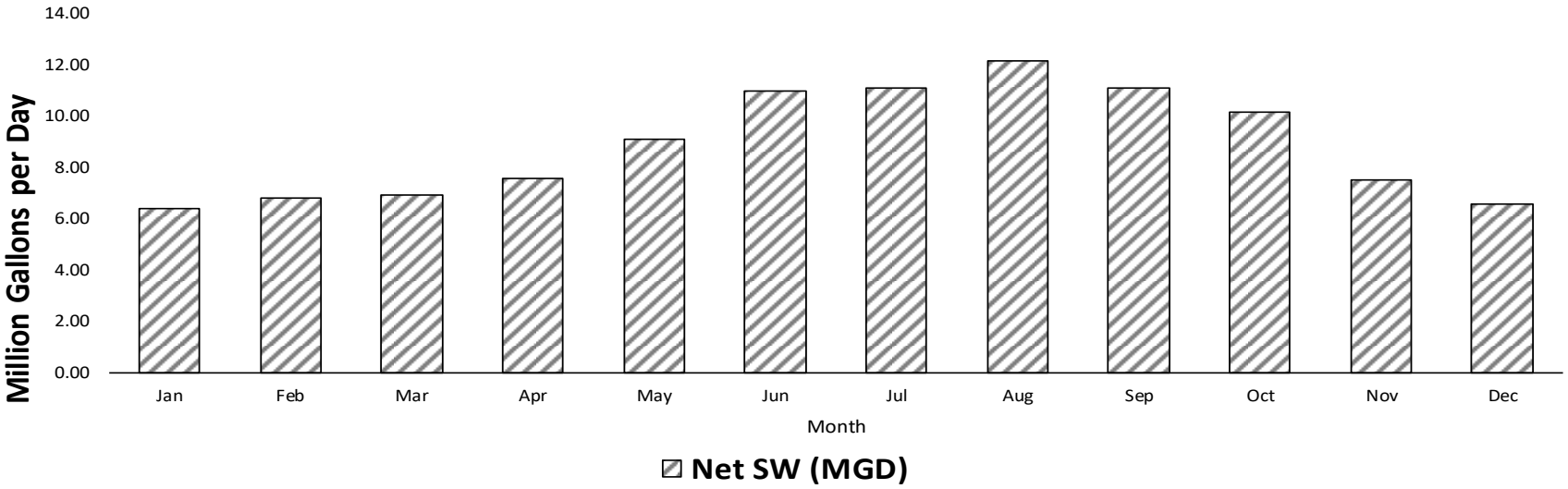
Nov
Dec
Month
Total SW Withdrawals
Total Returns


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)

ELMORE

Population	81,468
Pop served by public supply	75,870

2015 Demands

Withdrawals

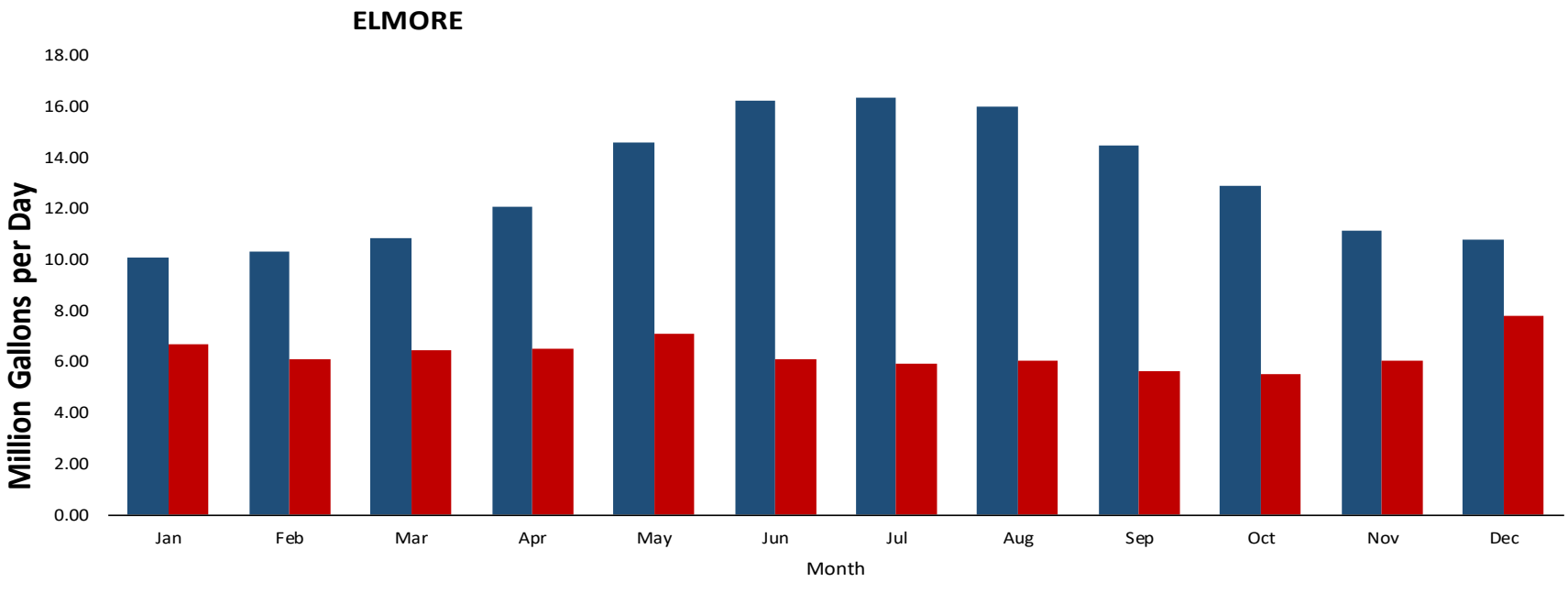
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.79	2.47	3.25	3.15	3.85	3.14	3.09	3.19	3.17	2.80	2.74	2.83	3.04
Public Supply	SW	8.68	8.67	8.72	9.19	10.17	10.43	10.30	10.44	10.11	9.32	8.94	9.11	9.51
Industrial/Mining	GW	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
Industrial/Mining	SW	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
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	0.19	0.20	0.36	0.49	0.93	1.54	1.62	1.23	0.61	0.47	0.24	0.19	0.68
Agriculture	SW	0.45	0.73	1.22	1.96	3.48	4.86	5.11	4.64	3.43	2.68	1.28	0.76	2.56
Total	**GW**	**4.93**	**4.62**	**5.56**	**5.59**	**6.73**	**6.63**	**6.66**	**6.37**	**5.73**	**5.22**	**4.94**	**4.97**	**5.67**
Total	**SW**	**10.05**	**10.32**	**10.85**	**12.06**	**14.57**	**16.21**	**16.33**	**16.01**	**14.46**	**12.91**	**11.13**	**10.79**	**12.99**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		6.62	6.07	6.36	6.50	7.04	6.08	5.94	6.06	5.61	5.52	6.01	7.79	6.30
Industrial/Mining		0.03	0.02	0.07	0.03	0.03	0.03	0.00	0.00	0.00	0.00	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		**6.65**	**6.09**	**6.43**	**6.53**	**7.08**	**6.11**	**5.94**	**6.06**	**5.61**	**5.52**	**6.01**	**7.79**	**6.32**

ELMORE — **2015 FINAL DATA**

Total SW Withdrawals	SW	10.05	10.32	10.85	12.06	14.57	16.21	16.33	16.01	14.46	12.91	11.13	10.79	12.99
Total GW Withdrawals	GW	4.93	4.62	5.56	5.59	6.73	6.63	6.66	6.37	5.73	5.22	4.94	4.97	5.67
Withdrawal Total		14.98	14.95	16.41	17.65	21.30	22.84	22.99	22.38	20.19	18.13	16.07	15.76	18.66
Total Returns		**6.65**	**6.09**	**6.43**	**6.53**	**7.08**	**6.11**	**5.94**	**6.06**	**5.61**	**5.52**	**6.01**	**7.79**	**6.32**
Net SW (MGD)	**SW**	**3.40**	**4.23**	**4.42**	**5.54**	**7.50**	**10.09**	**10.39**	**9.95**	**8.85**	**7.39**	**5.12**	**3.00**	**6.66**


ELMORE
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Million Gallons per Day
Jan
Feb
Mar
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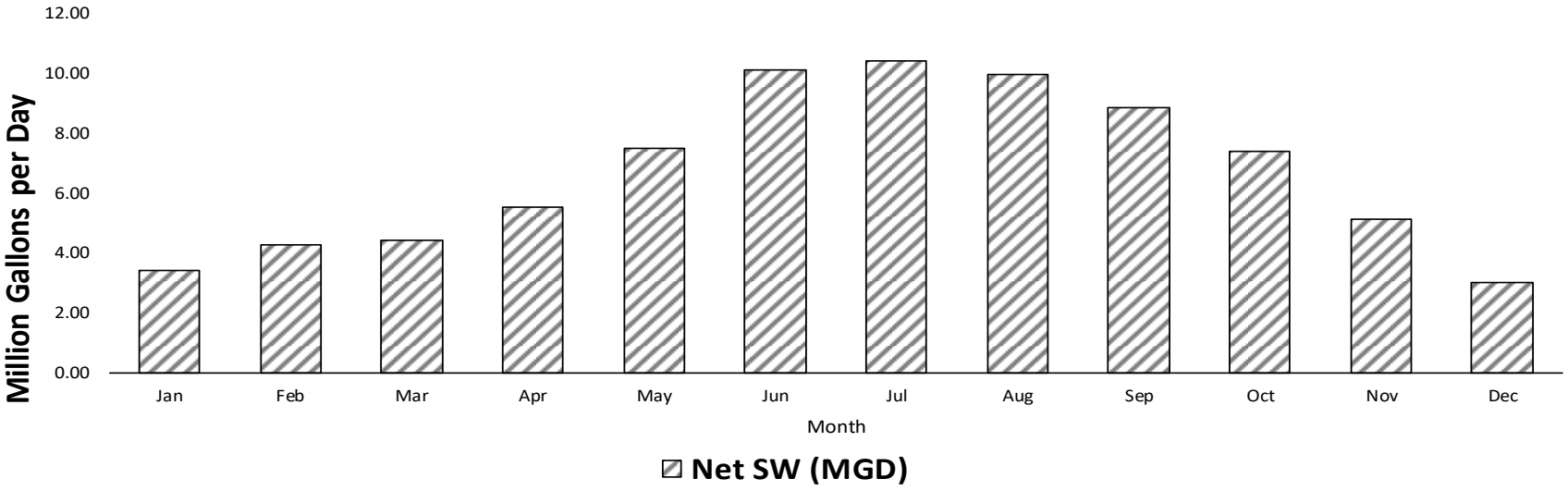
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


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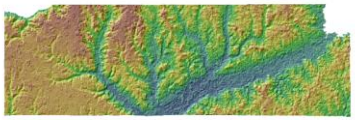
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

ESCAMBIA



Population	37,789
Pop served by public supply	30,839

2015 Demands

Withdrawals

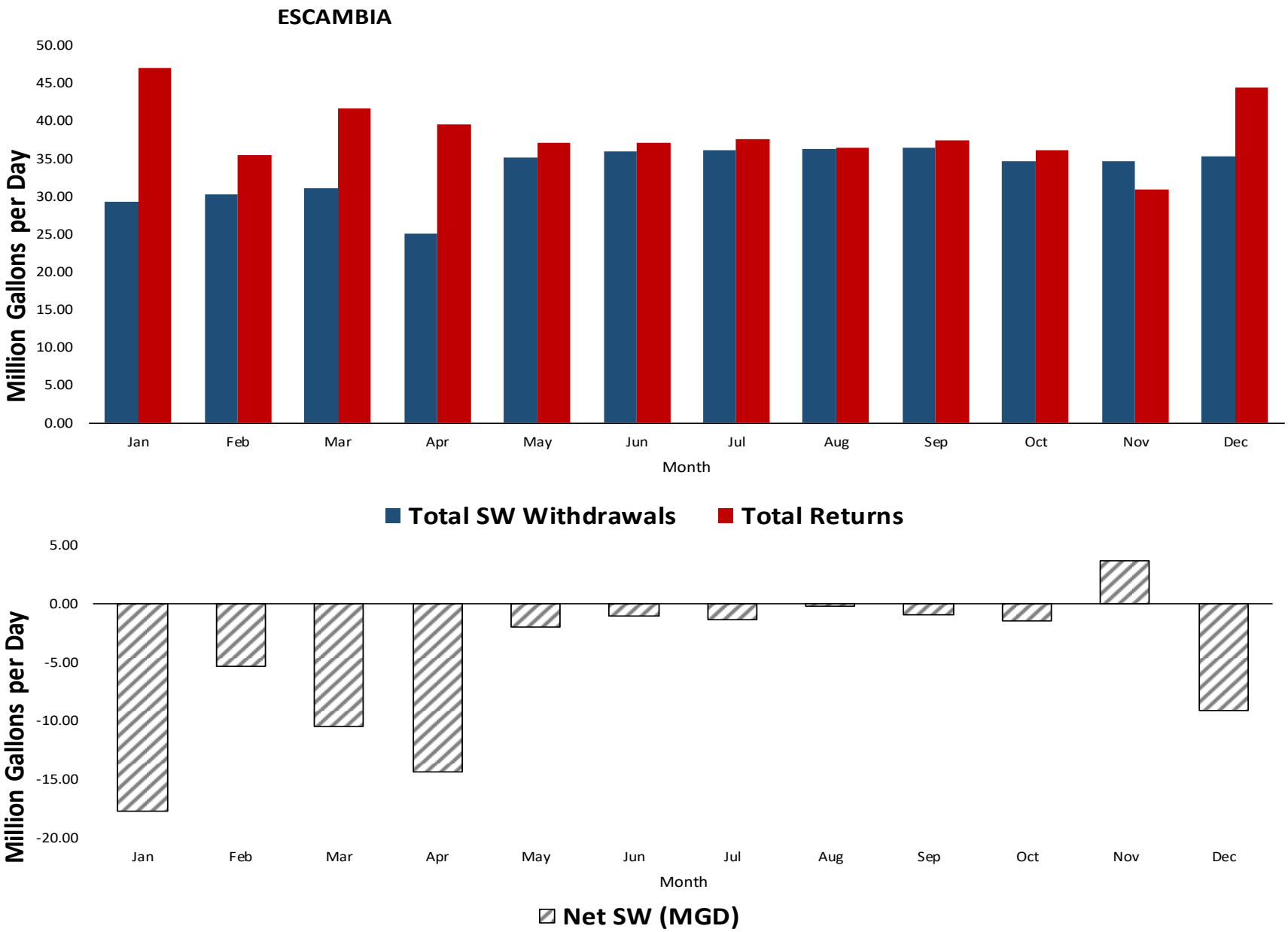
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.46	5.12	4.90	5.31	5.43	6.08	5.52	6.02	5.97	5.49	5.44	5.43	5.52
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	2.63	2.69	2.71	2.71	2.74	2.71	2.68	2.52	2.50	2.51	2.49	2.49	2.61
Industrial/Mining	SW	29.00	29.90	30.70	24.40	34.00	34.60	34.70	34.80	35.20	33.70	34.20	35.00	32.54
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	0.40	0.48	0.64	0.82	1.32	1.98	2.07	1.77	1.19	1.02	0.62	0.48	1.07
Agriculture	SW	0.24	0.30	0.40	0.73	1.11	1.41	1.45	1.48	1.22	1.01	0.44	0.32	0.85
Total	**GW**	**8.50**	**8.29**	**8.26**	**8.84**	**9.49**	**10.77**	**10.27**	**10.31**	**9.66**	**9.01**	**8.55**	**8.40**	**9.20**
Total	**SW**	**29.24**	**30.20**	**31.10**	**25.13**	**35.11**	**36.01**	**36.15**	**36.28**	**36.42**	**34.71**	**34.64**	**35.32**	**33.39**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.20	3.80	3.90	4.65	3.51	3.09	3.34	2.53	2.30	2.76	4.18	4.42	3.56
Industrial/Mining		42.74	31.71	37.73	34.85	33.62	34.03	34.23	33.93	35.14	33.42	26.78	40.03	34.85
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		**46.94**	**35.52**	**41.63**	**39.49**	**37.13**	**37.11**	**37.57**	**36.47**	**37.43**	**36.18**	**30.96**	**44.46**	**38.41**

ESCAMBIA — **2015 FINAL DATA**

Total SW Withdrawals	SW	29.24	30.20	31.10	25.13	35.11	36.01	36.15	36.28	36.42	34.71	34.64	35.32	33.39
Total GW Withdrawals	GW	8.50	8.29	8.26	8.84	9.49	10.77	10.27	10.31	9.66	9.01	8.55	8.40	9.20
Withdrawal Total		37.74	38.48	39.36	33.98	44.60	46.78	46.42	46.59	46.08	43.72	43.18	43.73	42.59
Total Returns		**46.94**	**35.52**	**41.63**	**39.49**	**37.13**	**37.11**	**37.57**	**36.47**	**37.43**	**36.18**	**30.96**	**44.46**	**38.41**
Net SW (MGD)	**SW**	**-17.70**	**-5.32**	**-10.52**	**-14.36**	**-2.01**	**-1.10**	**-1.42**	**-0.19**	**-1.01**	**-1.47**	**3.68**	**-9.13**	**-5.05**


ESCAMBIA
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
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
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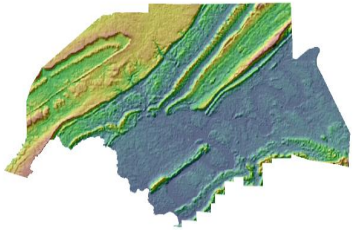
Oct
Nov
Dec
Month
Net SW (MGD)

ETOWAH



Population	103,057
Pop served by public supply	99,052

2015 Demands

Withdrawals

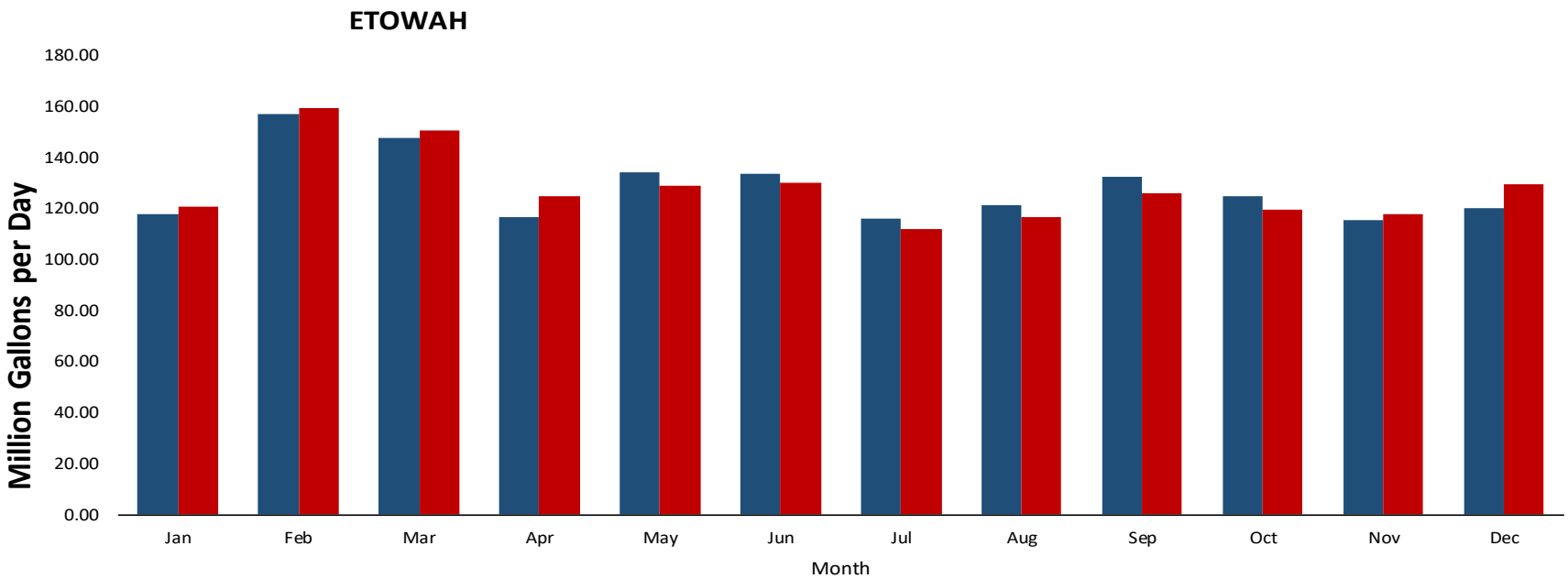
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.19	4.30	4.26	4.25	4.55	4.83	4.91	4.70	4.45	4.27	3.96	3.85	4.38
Public Supply	SW	12.42	12.68	12.32	12.07	12.95	13.86	13.66	13.65	12.83	12.31	12.21	11.84	12.73
Industrial/Mining	GW	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Industrial/Mining	SW	6.76	6.62	6.02	7.02	9.35	12.15	8.43	9.67	9.56	8.55	7.30	9.22	8.40
Thermoelectric	SW	98.21	137.20	128.84	96.27	110.07	105.62	92.10	96.13	108.40	102.43	95.03	98.41	105.52
Agriculture	GW	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21
Agriculture	SW	0.58	0.53	0.66	1.24	1.69	1.93	1.99	1.98	1.77	1.49	0.75	0.60	1.27
Total	**GW**	**4.62**	**4.73**	**4.69**	**4.68**	**4.98**	**5.27**	**5.35**	**5.14**	**4.89**	**4.71**	**4.40**	**4.28**	**4.81**
Total	**SW**	**117.96**	**157.03**	**147.83**	**116.60**	**134.06**	**133.56**	**116.18**	**121.43**	**132.56**	**124.77**	**115.29**	**120.07**	**127.91**

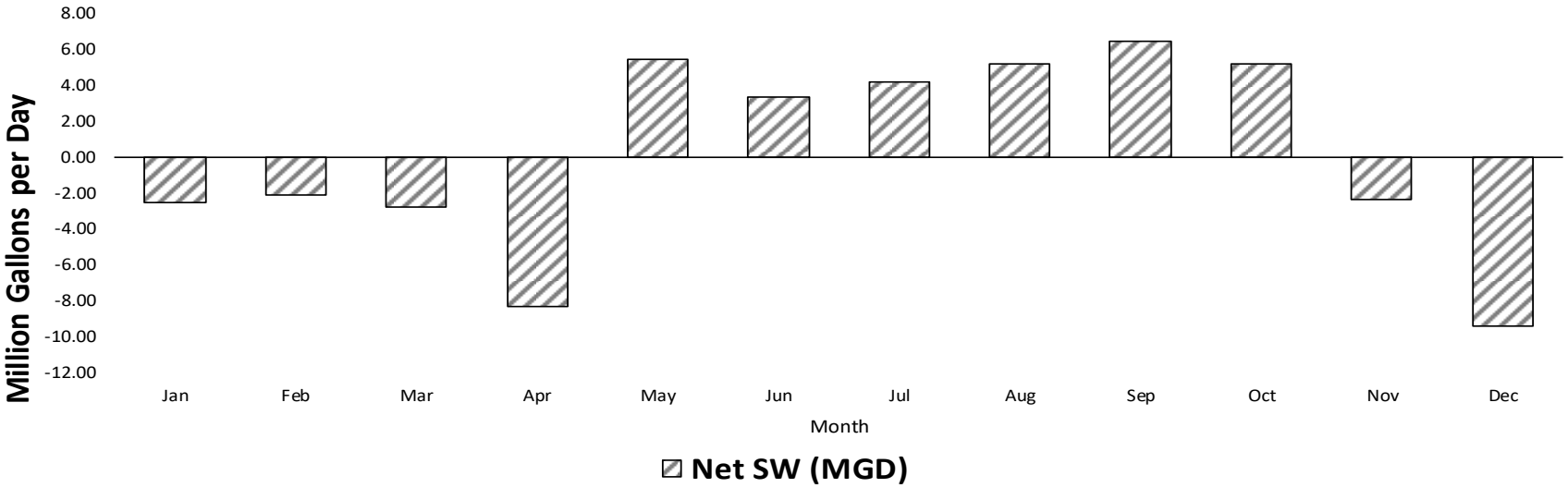
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		15.95	15.67	21.89	21.94	10.95	13.42	9.79	10.65	8.55	9.04	15.26	22.47	14.63
Industrial/Mining		6.77	6.66	6.26	7.14	9.22	11.55	8.35	9.68	9.51	8.48	7.48	9.14	8.35
Thermoelectric		97.84	136.85	122.52	95.84	108.50	105.27	93.85	95.98	108.05	102.08	94.94	97.93	104.97
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		**120.56**	**159.18**	**150.67**	**124.92**	**128.68**	**130.24**	**111.99**	**116.31**	**126.11**	**119.60**	**117.68**	**129.54**	**127.96**

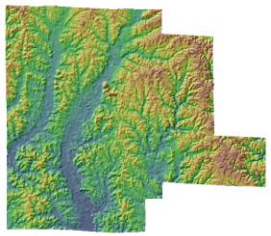
ETOWAH — **2015 FINAL DATA**

Total SW Withdrawals	SW	117.96	157.03	147.83	116.60	134.06	133.56	116.18	121.43	132.56	124.77	115.29	120.07	127.91
Total GW Withdrawals	GW	4.62	4.73	4.69	4.68	4.98	5.27	5.35	5.14	4.89	4.71	4.40	4.28	4.81
Withdrawal Total		122.59	161.76	152.53	121.28	139.04	138.83	121.53	126.57	137.44	129.48	119.69	124.35	132.73
Total Returns		**120.56**	**159.18**	**150.67**	**124.92**	**128.68**	**130.24**	**111.99**	**116.31**	**126.11**	**119.60**	**117.68**	**129.54**	**127.96**
Net SW (MGD)	**SW**	**-2.60**	**-2.15**	**-2.83**	**-8.32**	**5.38**	**3.32**	**4.19**	**5.12**	**6.45**	**5.17**	**-2.39**	**-9.47**	**0.16**


ETOWAH
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


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

FAYETTE



Population	16,759
Pop served by public supply	9,743

2015 Demands

Withdrawals

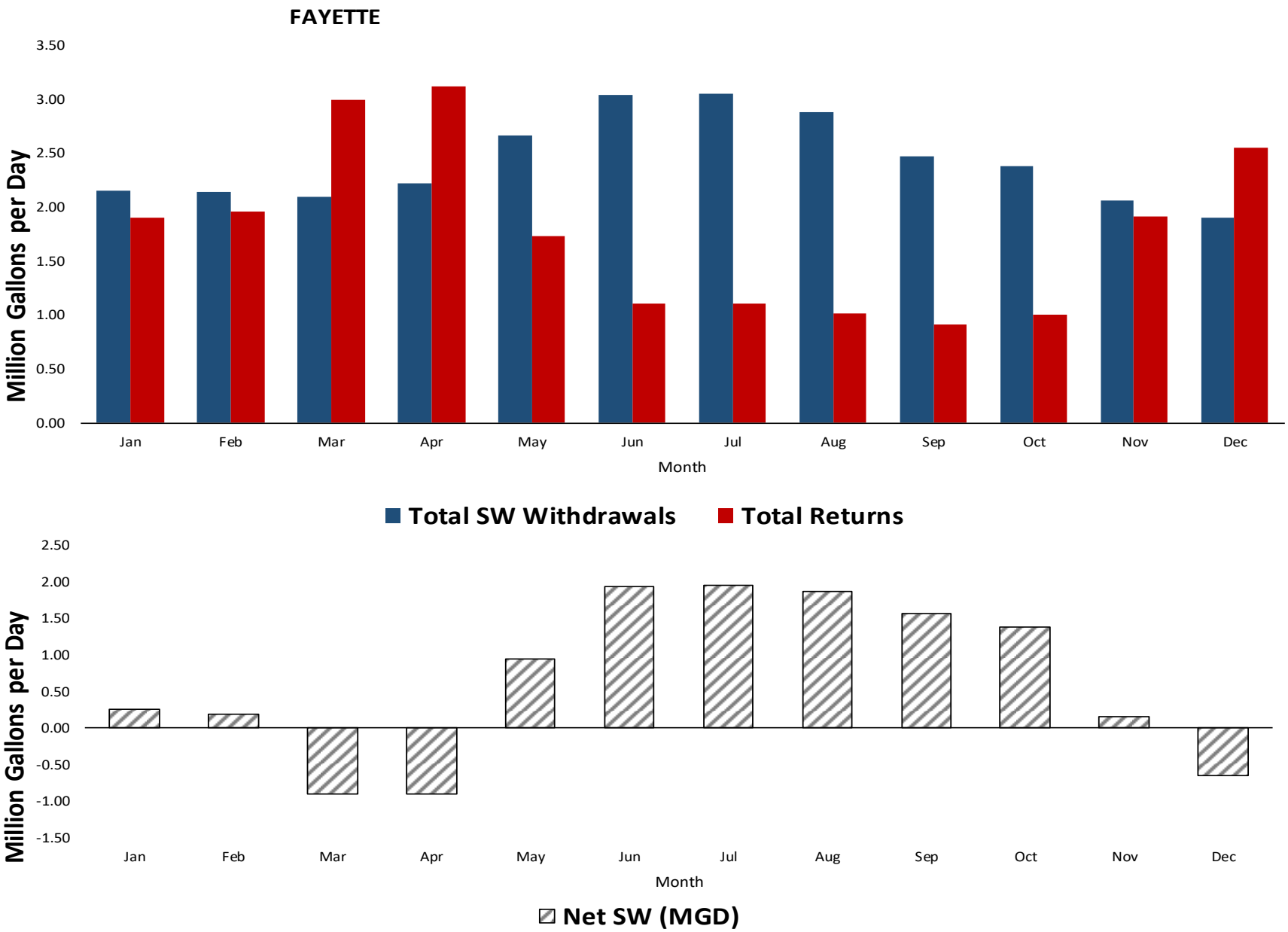
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.55	0.55	0.55	0.55	0.55	0.55	0.54	0.54	0.53	0.54	0.54	0.54	0.54
Public Supply	SW	1.69	1.69	1.56	1.55	1.73	1.81	1.77	1.72	1.58	1.62	1.57	1.46	1.65
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Agriculture	SW	0.16	0.14	0.23	0.36	0.63	0.92	0.96	0.85	0.57	0.46	0.17	0.14	0.47
Total	**GW**	**0.63**	**0.63**	**0.63**	**0.63**	**0.63**	**0.63**	**0.62**	**0.62**	**0.61**	**0.62**	**0.62**	**0.62**	**0.62**
Total	**SW**	**2.16**	**2.15**	**2.10**	**2.22**	**2.67**	**3.04**	**3.05**	**2.88**	**2.47**	**2.38**	**2.06**	**1.91**	**2.42**

Returns

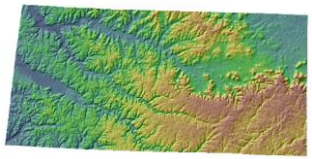
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.90	1.96	3.00	3.12	1.73	1.10	1.10	1.01	0.91	1.00	1.91	2.55	1.77
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**1.90**	**1.96**	**3.00**	**3.12**	**1.73**	**1.10**	**1.10**	**1.01**	**0.91**	**1.00**	**1.91**	**2.55**	**1.77**

FAYETTE — **2015 FINAL DATA**

Total SW Withdrawals	SW	2.16	2.15	2.10	2.22	2.67	3.04	3.05	2.88	2.47	2.38	2.06	1.91	2.42
Total GW Withdrawals	GW	0.63	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.62	0.62	0.62	0.62
Withdrawal Total		2.79	2.77	2.73	2.85	3.30	3.67	3.67	3.50	3.08	3.00	2.68	2.53	3.05
Total Returns		**1.90**	**1.96**	**3.00**	**3.12**	**1.73**	**1.10**	**1.10**	**1.01**	**0.91**	**1.00**	**1.91**	**2.55**	**1.77**
Net SW (MGD)	**SW**	**0.26**	**0.18**	**-0.90**	**-0.90**	**0.94**	**1.94**	**1.95**	**1.87**	**1.56**	**1.38**	**0.15**	**-0.65**	**0.65**


FAYETTE
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
-0.50
-1.00
-1.50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

FRANKLIN



Population	31,696
Pop served by public supply	25,004

2015 Demands

Withdrawals

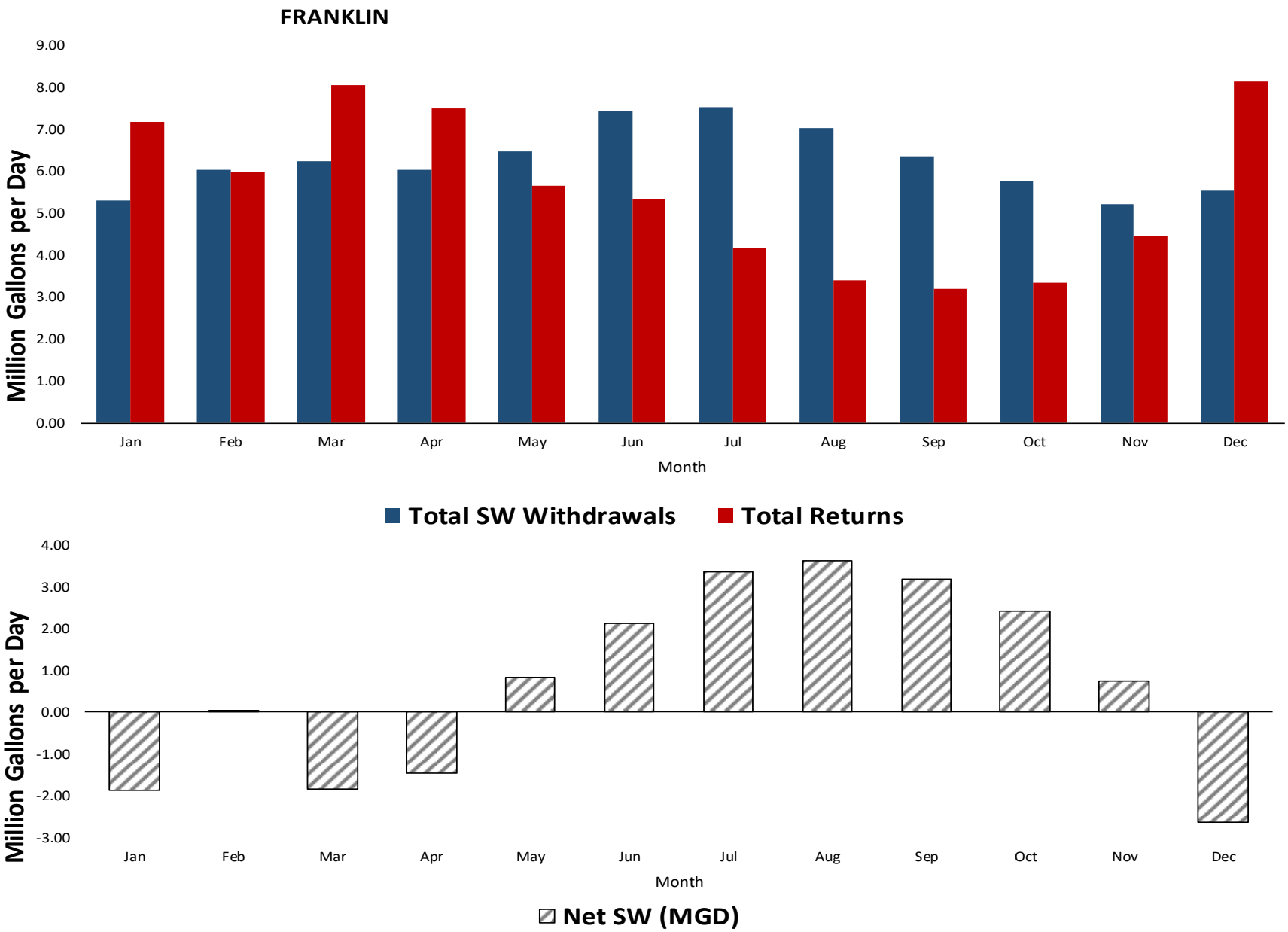
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.42	1.42	1.39	1.43	1.47	1.49	1.53	1.50	1.42	1.37	1.31	1.37	1.43
Public Supply	SW	4.64	5.31	5.35	4.85	4.77	5.16	5.16	4.94	4.86	4.48	4.39	4.79	4.89
Industrial/Mining	GW	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Industrial/Mining	SW	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
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	0.28	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	SW	0.51	0.56	0.73	1.05	1.56	2.14	2.22	1.94	1.34	1.13	0.68	0.58	1.21
Total	**GW**	**2.04**	**2.04**	**2.01**	**2.05**	**2.09**	**2.11**	**2.15**	**2.12**	**2.04**	**1.99**	**1.93**	**1.99**	**2.05**
Total	**SW**	**5.30**	**6.02**	**6.23**	**6.04**	**6.48**	**7.45**	**7.53**	**7.03**	**6.35**	**5.77**	**5.21**	**5.52**	**6.25**

Returns

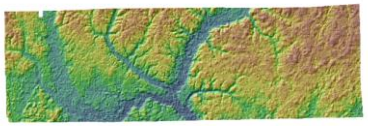
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.83	4.88	6.23	5.60	4.42	3.52	2.93	2.36	1.98	2.13	3.37	6.96	4.18
Industrial/Mining		1.35	1.10	1.84	1.91	1.24	1.80	1.22	1.05	1.20	1.21	1.08	1.19	1.35
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**7.18**	**5.97**	**8.07**	**7.51**	**5.66**	**5.33**	**4.16**	**3.40**	**3.18**	**3.34**	**4.46**	**8.15**	**5.53**

FRANKLIN — **2015 FINAL DATA**

Total SW Withdrawals	SW	5.30	6.02	6.23	6.04	6.48	7.45	7.53	7.03	6.35	5.77	5.21	5.52	6.25
Total GW Withdrawals	GW	2.04	2.04	2.01	2.05	2.09	2.11	2.15	2.12	2.04	1.99	1.93	1.99	2.05
Withdrawal Total		7.34	8.06	8.24	8.10	8.57	9.56	9.68	9.15	8.39	7.75	7.14	7.52	8.29
Total Returns		**7.18**	**5.97**	**8.07**	**7.51**	**5.66**	**5.33**	**4.16**	**3.40**	**3.18**	**3.34**	**4.46**	**8.15**	**5.53**
Net SW (MGD)	**SW**	**-1.88**	**0.05**	**-1.84**	**-1.47**	**0.82**	**2.12**	**3.37**	**3.63**	**3.17**	**2.42**	**0.76**	**-2.63**	**0.71**


FRANKLIN
Million Gallons per Day
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
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)

GENEVA



Population	26,777
Pop served by public supply	15,541

2015 Demands

Withdrawals

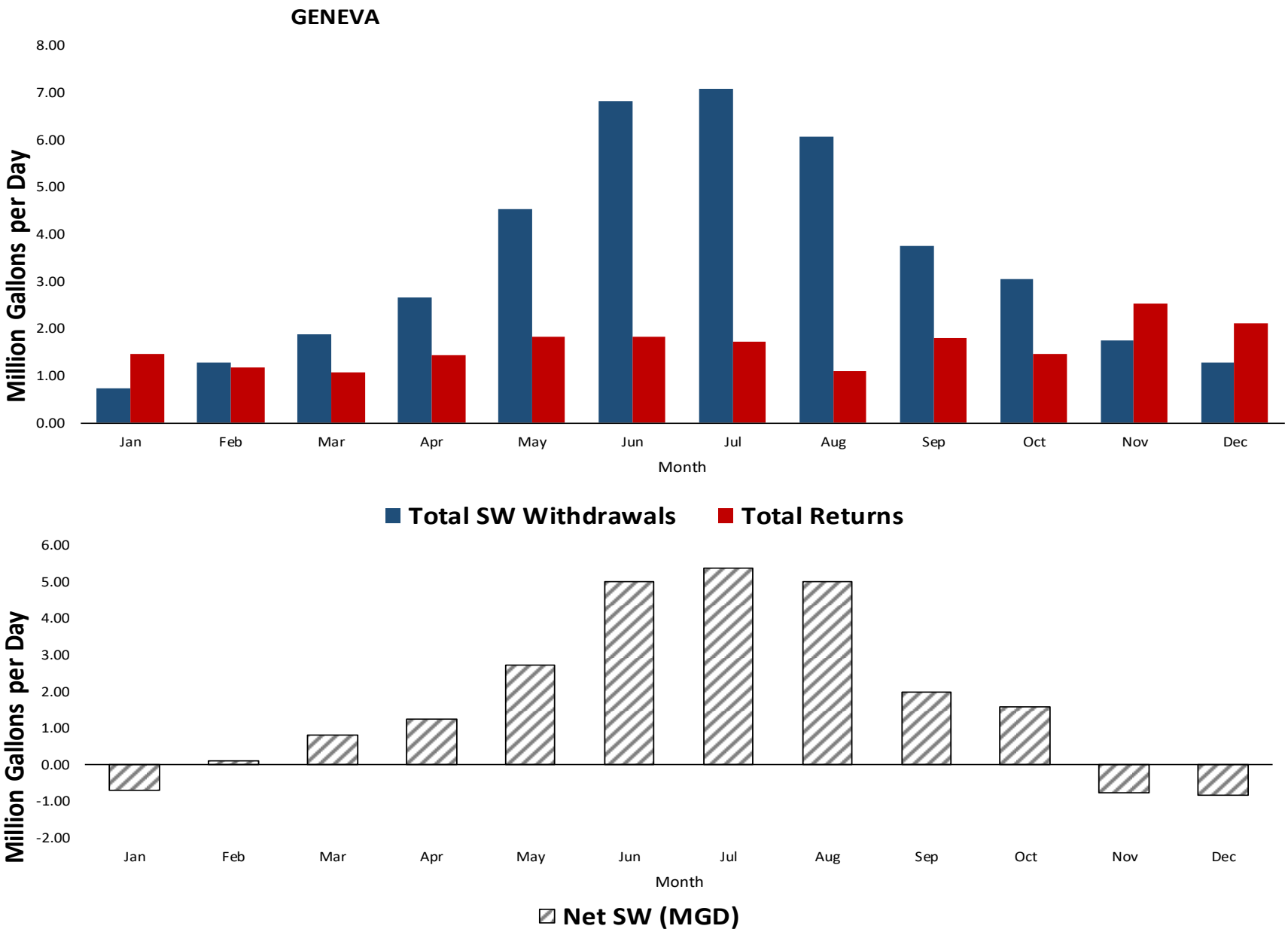
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.29	2.45	2.24	2.42	2.55	2.71	2.60	2.64	2.58	2.44	2.27	2.23	2.45
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	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	1.22	1.37	1.84	2.31	3.70	5.56	5.81	4.86	3.14	2.68	1.68	1.37	2.97
Agriculture	SW	0.71	1.24	1.85	2.63	4.50	6.80	7.06	6.05	3.74	3.02	1.71	1.25	3.39
Total	**GW**	**3.56**	**3.87**	**4.14**	**4.78**	**6.30**	**8.32**	**8.47**	**7.54**	**5.77**	**5.17**	**4.00**	**3.66**	**5.47**
Total	**SW**	**0.73**	**1.26**	**1.87**	**2.65**	**4.52**	**6.82**	**7.08**	**6.07**	**3.76**	**3.04**	**1.73**	**1.27**	**3.41**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.45	1.18	1.06	1.43	1.81	1.81	1.71	1.08	1.79	1.47	2.52	2.12	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		**1.45**	**1.18**	**1.06**	**1.43**	**1.81**	**1.81**	**1.71**	**1.08**	**1.79**	**1.47**	**2.52**	**2.12**	**1.62**

GENEVA — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.73	1.26	1.87	2.65	4.52	6.82	7.08	6.07	3.76	3.04	1.73	1.27	3.41
Total GW Withdrawals	GW	3.56	3.87	4.14	4.78	6.30	8.32	8.47	7.54	5.77	5.17	4.00	3.66	5.47
Withdrawal Total		4.29	5.13	6.01	7.43	10.82	15.14	15.55	13.62	9.53	8.20	5.74	4.92	8.89
Total Returns		**1.45**	**1.18**	**1.06**	**1.43**	**1.81**	**1.81**	**1.71**	**1.08**	**1.79**	**1.47**	**2.52**	**2.12**	**1.62**
Net SW (MGD)	**SW**	**-0.72**	**0.09**	**0.81**	**1.23**	**2.70**	**5.01**	**5.37**	**4.99**	**1.97**	**1.57**	**-0.79**	**-0.86**	**1.78**


GENEVA
Million Gallons per Day
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
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)

GREENE

Population	8,479
Pop served by public supply	5,778

2015 Demands

Withdrawals

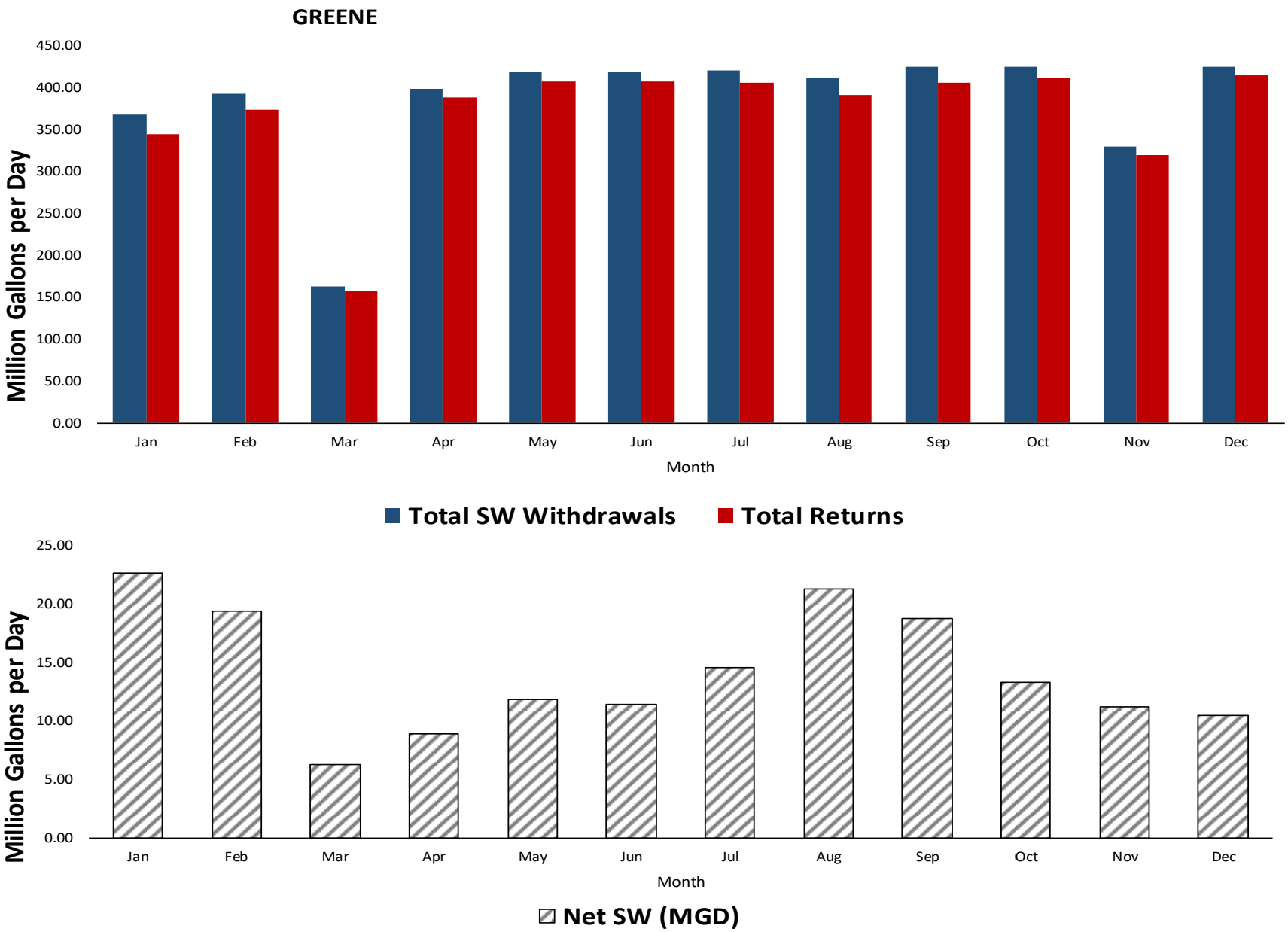
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.54	1.45	1.38	1.57	1.54	1.53	1.72	1.64	1.62	1.53	1.54	1.59	1.56
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.01	0.02	0.02	0.03	0.04	0.03	0.02	0.03	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	361.85	387.42	157.19	392.22	413.79	413.64	415.01	406.79	419.41	419.54	324.58	419.89	377.42
Agriculture	GW	4.38	4.41	4.46	4.51	4.65	4.84	4.86	4.79	4.64	4.59	4.46	4.41	4.59
Agriculture	SW	5.21	5.21	5.22	5.33	5.36	5.40	5.40	5.34	5.26	5.25	5.24	5.24	5.29
Total	**GW**	**5.93**	**5.88**	**5.86**	**6.11**	**6.23**	**6.40**	**6.61**	**6.47**	**6.28**	**6.15**	**6.02**	**6.02**	**6.16**
Total	**SW**	**367.06**	**392.63**	**162.41**	**397.55**	**419.15**	**419.04**	**420.41**	**412.13**	**424.67**	**424.79**	**329.82**	**425.13**	**382.71**

Returns

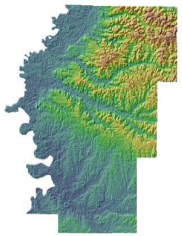
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.24	0.19	0.20	0.15	0.11	0.23	0.11	0.03	0.08	0.13	0.90	1.66	0.34
Industrial/Mining		0.36	0.34	0.34	0.36	0.36	0.32	0.33	0.36	0.37	0.39	0.41	0.40	0.36
Thermoelectric		343.83	372.73	155.58	388.19	406.83	407.09	405.49	390.48	405.49	410.98	317.32	412.59	368.05
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		**344.44**	**373.26**	**156.12**	**388.70**	**407.30**	**407.64**	**405.93**	**390.87**	**405.95**	**411.50**	**318.62**	**414.65**	**368.75**

GREENE — **2015 FINAL DATA**

Total SW Withdrawals	SW	367.06	392.63	162.41	397.55	419.15	419.04	420.41	412.13	424.67	424.79	329.82	425.13	382.71
Total GW Withdrawals	GW	5.93	5.88	5.86	6.11	6.23	6.40	6.61	6.47	6.28	6.15	6.02	6.02	6.16
Withdrawal Total		372.99	398.51	168.27	403.66	425.38	425.43	427.02	418.59	430.95	430.94	335.84	431.15	388.87
Total Returns		**344.44**	**373.26**	**156.12**	**388.70**	**407.30**	**407.64**	**405.93**	**390.87**	**405.95**	**411.50**	**318.62**	**414.65**	**368.75**
Net SW (MGD)	**SW**	**22.63**	**19.37**	**6.29**	**8.85**	**11.85**	**11.40**	**14.48**	**21.26**	**18.72**	**13.29**	**11.20**	**10.47**	**14.15**


GREENE
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

HALE



Population	15,068
Pop served by public supply	12,160

2015 Demands

Withdrawals

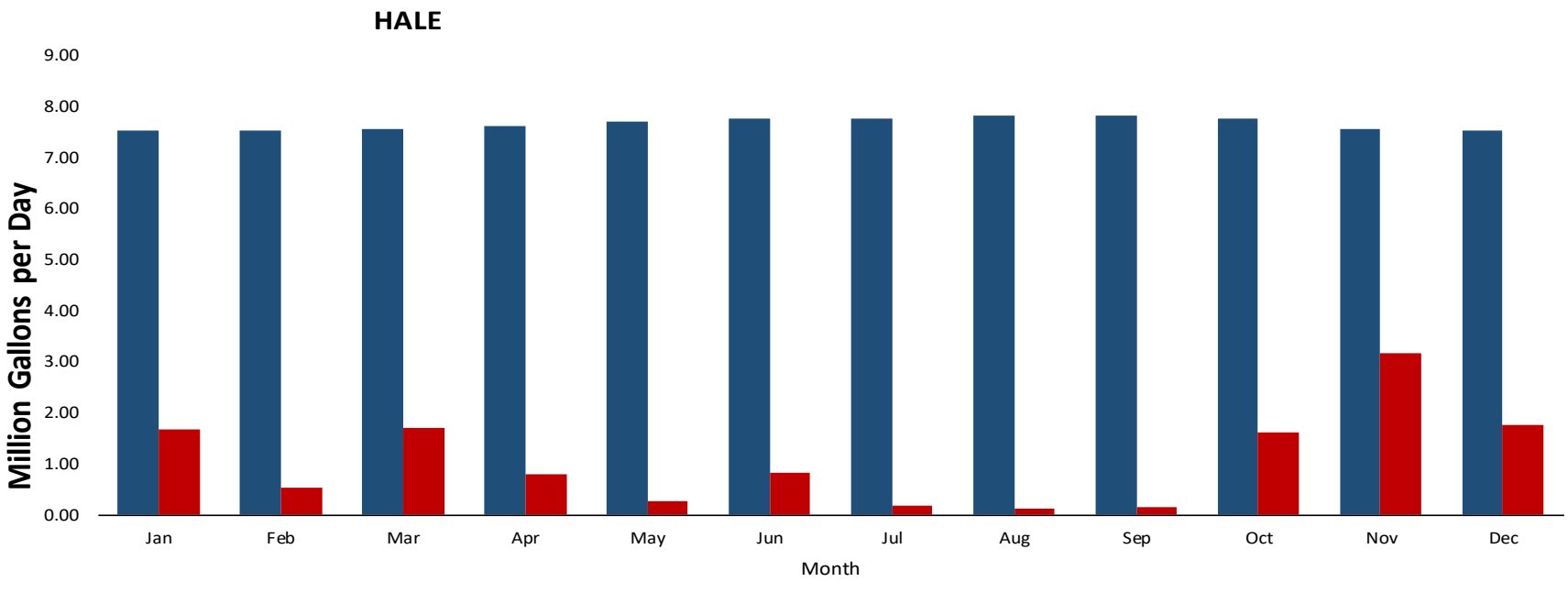
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.37	3.45	3.43	3.28	3.36	3.48	3.47	3.61	3.42	3.37	3.45	3.44	3.43
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.12	0.12	0.12	0.12	0.12	0.17	0.17	0.17	0.17	0.12	0.12	0.12	0.14
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	9.08	9.06	9.34	9.56	10.33	11.41	11.55	10.81	9.67	9.43	9.09	9.04	9.87
Agriculture	SW	7.53	7.52	7.54	7.62	7.71	7.75	7.76	7.82	7.81	7.75	7.55	7.52	7.66
Total	**GW**	**12.57**	**12.63**	**12.89**	**12.96**	**13.81**	**15.06**	**15.19**	**14.58**	**13.25**	**12.92**	**12.66**	**12.60**	**13.43**
Total	**SW**	**7.53**	**7.52**	**7.54**	**7.62**	**7.71**	**7.75**	**7.76**	**7.82**	**7.81**	**7.75**	**7.55**	**7.52**	**7.66**

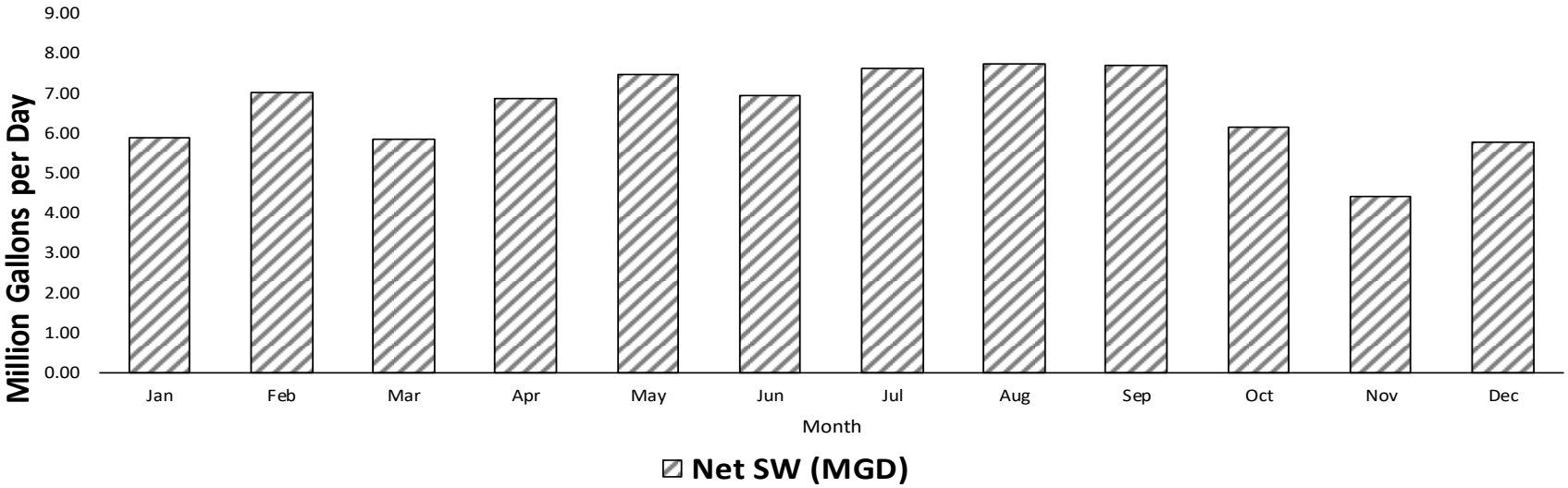
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.66	0.30	1.71	0.77	0.27	0.78	0.13	0.08	0.06	1.59	3.15	1.72	1.02
Industrial/Mining		0.01	0.23	0.00	0.00	0.01	0.04	0.03	0.03	0.08	0.00	0.00	0.03	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		**1.67**	**0.53**	**1.71**	**0.78**	**0.27**	**0.82**	**0.17**	**0.11**	**0.14**	**1.60**	**3.16**	**1.75**	**1.06**

HALE — **2015 FINAL DATA**

Total SW Withdrawals	SW	7.53	7.52	7.54	7.62	7.71	7.75	7.76	7.82	7.81	7.75	7.55	7.52	7.66
Total GW Withdrawals	GW	12.57	12.63	12.89	12.96	13.81	15.06	15.19	14.58	13.25	12.92	12.66	12.60	13.43
Withdrawal Total		20.10	20.15	20.43	20.58	21.52	22.81	22.95	22.40	21.07	20.67	20.21	20.12	21.09
Total Returns		**1.67**	**0.53**	**1.71**	**0.78**	**0.27**	**0.82**	**0.17**	**0.11**	**0.14**	**1.60**	**3.16**	**1.75**	**1.06**
Net SW (MGD)	**SW**	**5.87**	**6.99**	**5.83**	**6.84**	**7.44**	**6.93**	**7.59**	**7.71**	**7.67**	**6.15**	**4.39**	**5.77**	**6.60**


HALE
Million Gallons per Day
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
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
Net SW (MGD)

HENRY

Population	17,221
Pop served by public supply	13,297

2015 Demands

Withdrawals

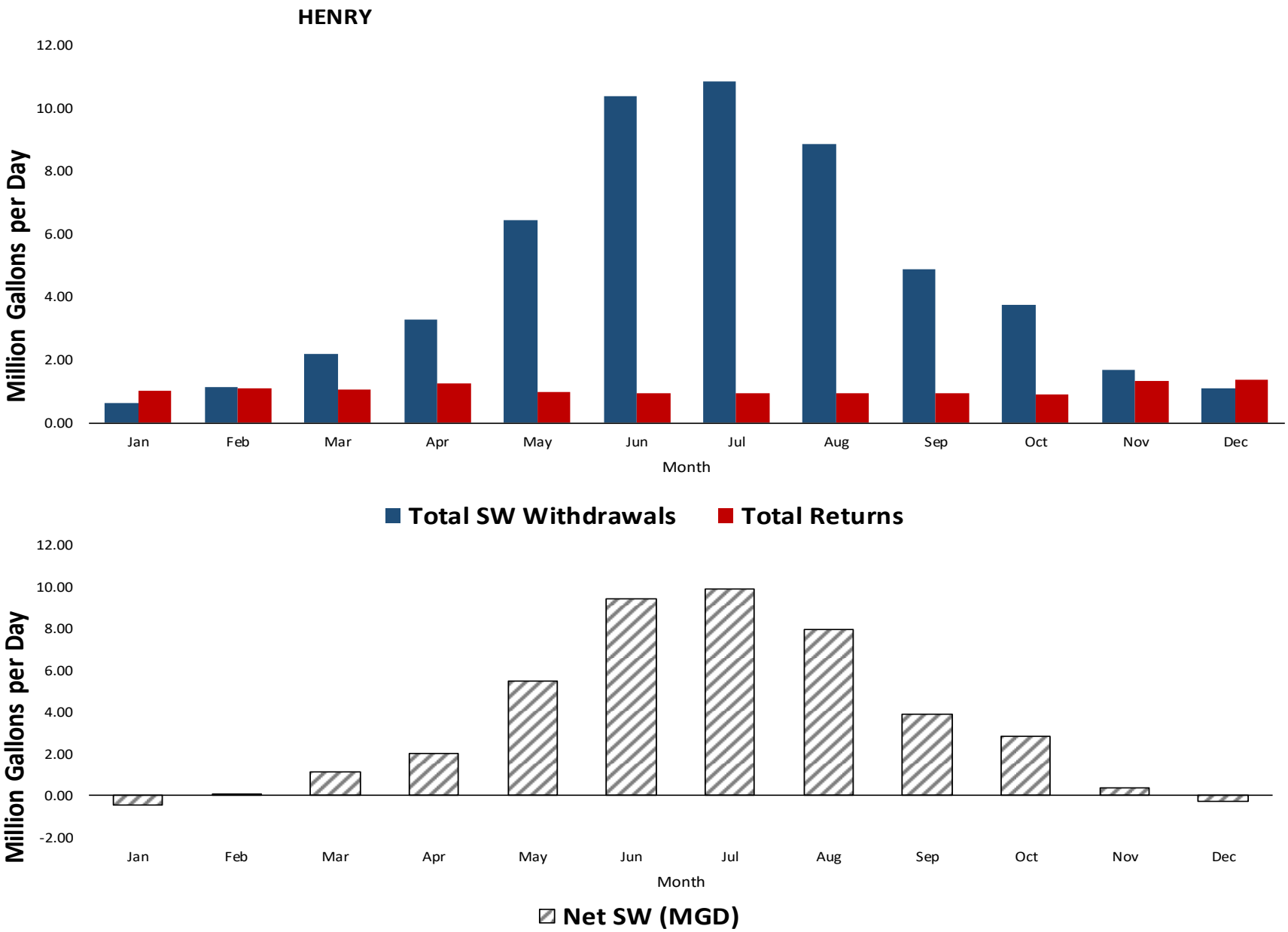
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.78	1.75	1.75	1.85	2.25	2.13	2.15	2.10	1.89	1.79	1.69	1.66	1.90
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.04	0.26	0.29	0.30	0.27	0.30	0.29	0.27	0.28	0.29	0.28	0.29	0.26
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	0.44	0.49	0.82	1.12	2.07	3.36	3.53	2.75	1.47	1.17	0.62	0.48	1.53
Agriculture	SW	0.61	1.15	2.19	3.30	6.43	10.38	10.85	8.87	4.89	3.74	1.69	1.09	4.62
Total	**GW**	**2.27**	**2.50**	**2.86**	**3.27**	**4.58**	**5.80**	**5.97**	**5.12**	**3.63**	**3.24**	**2.59**	**2.43**	**3.70**
Total	**SW**	**0.61**	**1.15**	**2.19**	**3.30**	**6.43**	**10.38**	**10.85**	**8.87**	**4.89**	**3.74**	**1.69**	**1.09**	**4.62**

Returns

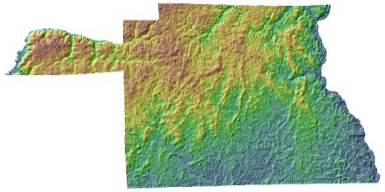
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.66	0.73	0.65	0.84	0.60	0.52	0.54	0.55	0.57	0.47	0.92	0.97	0.67
Industrial/Mining		0.37	0.37	0.41	0.42	0.37	0.43	0.39	0.39	0.39	0.42	0.41	0.39	0.40
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**1.04**	**1.10**	**1.07**	**1.26**	**0.97**	**0.95**	**0.93**	**0.94**	**0.96**	**0.89**	**1.33**	**1.36**	**1.07**

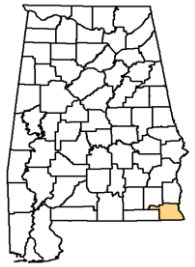
HENRY — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.61	1.15	2.19	3.30	6.43	10.38	10.85	8.87	4.89	3.74	1.69	1.09	4.62
Total GW Withdrawals	GW	2.27	2.50	2.86	3.27	4.58	5.80	5.97	5.12	3.63	3.24	2.59	2.43	3.70
Withdrawal Total		2.87	3.65	5.05	6.56	11.01	16.17	16.82	13.99	8.52	6.98	4.28	3.52	8.32
Total Returns		**1.04**	**1.10**	**1.07**	**1.26**	**0.97**	**0.95**	**0.93**	**0.94**	**0.96**	**0.89**	**1.33**	**1.36**	**1.07**
Net SW (MGD)	**SW**	**-0.43**	**0.04**	**1.12**	**2.04**	**5.46**	**9.42**	**9.92**	**7.93**	**3.93**	**2.85**	**0.36**	**-0.27**	**3.53**


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

HOUSTON





Population	104,173
Pop served by public supply	84,623

2015 Demands

Withdrawals

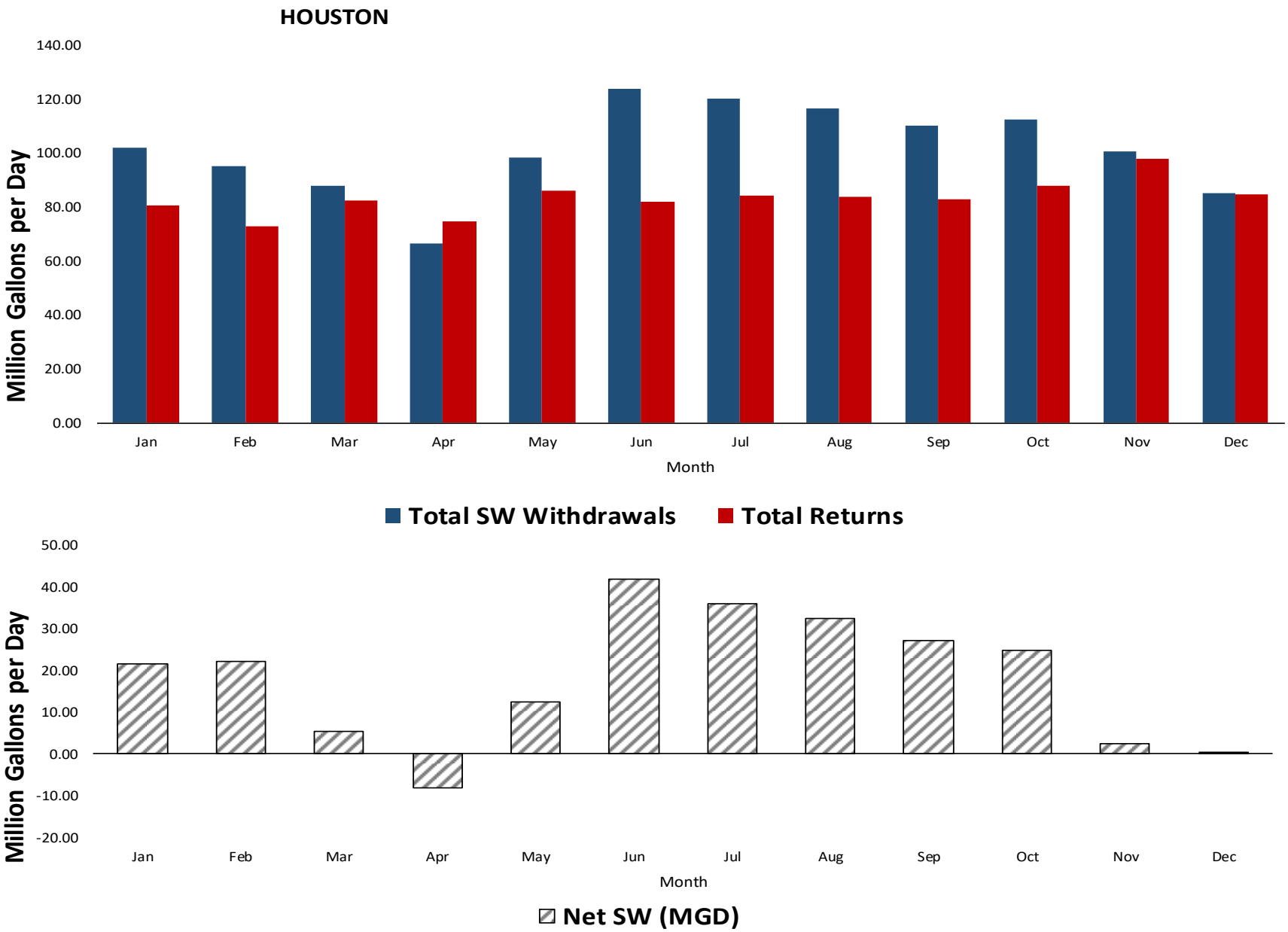
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	17.19	17.85	20.54	20.55	20.39	20.90	22.06	21.16	21.73	19.21	18.00	21.04	20.07
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
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	101.55	94.65	86.71	64.65	94.83	118.48	114.38	111.62	106.84	110.38	99.76	84.50	99.08
Agriculture	GW	1.01	1.02	2.43	3.62	7.63	13.17	13.88	10.22	4.46	3.22	1.30	0.92	5.27
Agriculture	SW	0.59	0.50	1.13	1.83	3.67	5.45	5.79	4.80	3.18	2.34	0.90	0.49	2.57
Total	**GW**	**18.50**	**19.17**	**23.28**	**24.47**	**28.32**	**34.37**	**36.25**	**31.68**	**26.50**	**22.73**	**19.60**	**22.27**	**25.64**
Total	**SW**	**102.14**	**95.15**	**87.84**	**66.48**	**98.50**	**123.93**	**120.17**	**116.42**	**110.02**	**112.72**	**100.66**	**84.99**	**101.65**

Returns

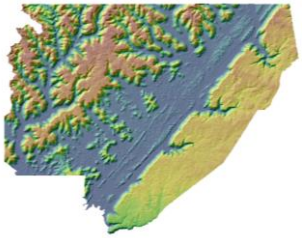
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.94	4.89	4.85	7.24	5.58	5.28	5.24	4.12	4.52	4.54	10.58	8.69	5.96
Industrial/Mining		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Thermoelectric		74.57	68.10	77.52	67.35	80.30	76.81	78.98	79.70	78.24	83.41	87.41	76.17	77.38
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		**80.59**	**73.07**	**82.45**	**74.67**	**85.96**	**82.17**	**84.30**	**83.91**	**82.85**	**88.04**	**98.07**	**84.94**	**83.42**

HOUSTON — **2015 FINAL DATA**

Total SW Withdrawals	SW	102.14	95.15	87.84	66.48	98.50	123.93	120.17	116.42	110.02	112.72	100.66	84.99	101.65
Total GW Withdrawals	GW	18.50	19.17	23.28	24.47	28.32	34.37	36.25	31.68	26.50	22.73	19.60	22.27	25.64
Withdrawal Total		120.64	114.32	111.12	90.95	126.82	158.29	156.42	148.10	136.52	135.45	120.26	107.26	127.29
Total Returns		**80.59**	**73.07**	**82.45**	**74.67**	**85.96**	**82.17**	**84.30**	**83.91**	**82.85**	**88.04**	**98.07**	**84.94**	**83.42**
Net SW (MGD)	**SW**	**21.54**	**22.09**	**5.39**	**-8.19**	**12.55**	**41.76**	**35.87**	**32.52**	**27.17**	**24.69**	**2.59**	**0.04**	**18.17**


HOUSTON
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
50.00
40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

JACKSON



Population	52,419
Pop served by public supply	38,802

2015 Demands

Withdrawals

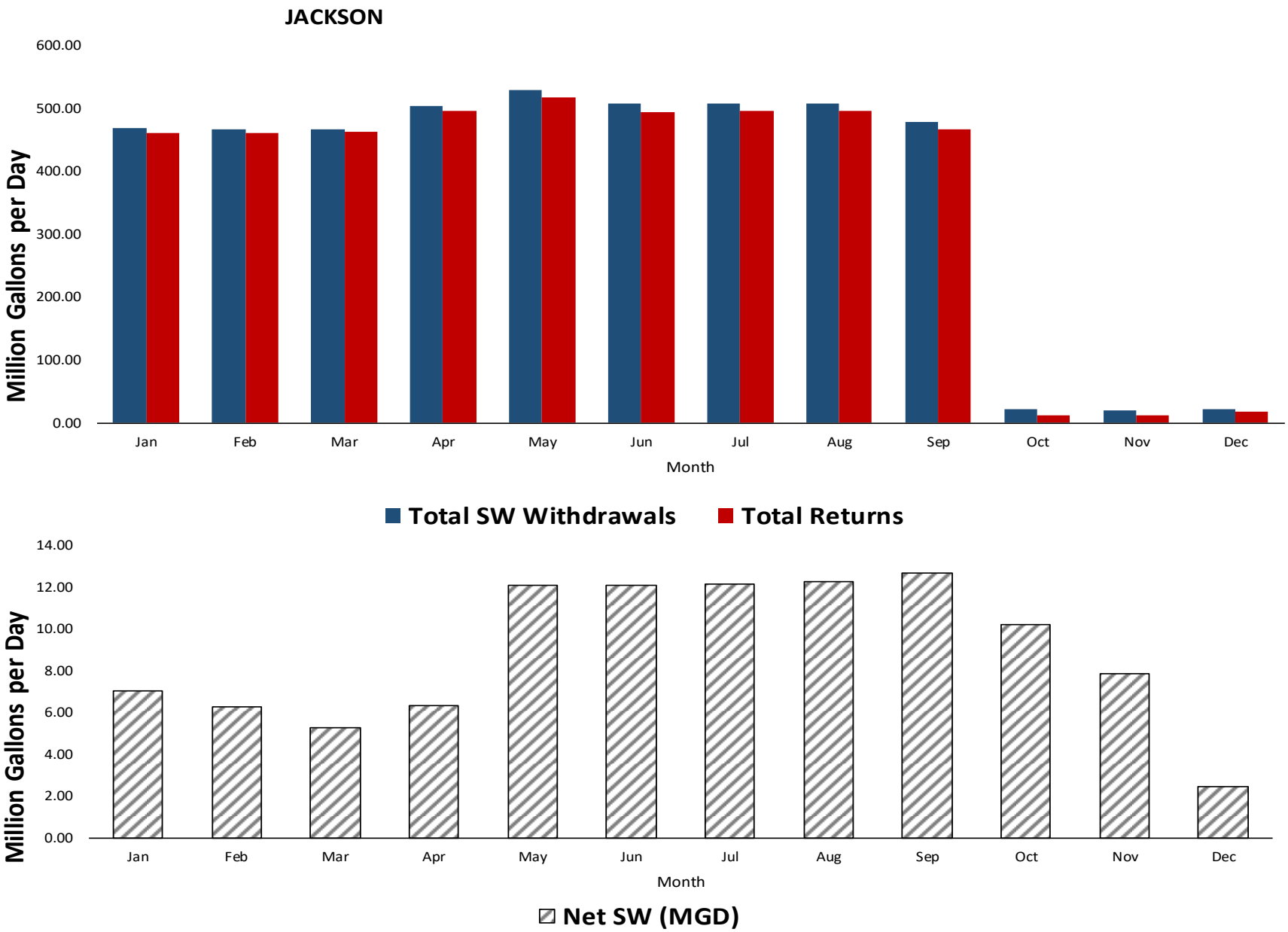
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.41	1.37	1.30	1.31	1.37	1.36	1.36	1.36	1.37	1.38	1.35	1.41	1.36
Public Supply	SW	11.24	9.47	11.10	10.85	11.87	12.66	12.53	12.22	11.65	10.59	10.58	10.76	11.31
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	9.59	9.65	9.30	8.83	8.73	8.16	9.29	9.21	8.95	8.88	9.10	9.48	9.10
Thermoelectric	SW	446.95	446.38	446.38	481.88	507.22	483.80	483.80	483.80	456.01	0.00	0.00	0.00	352.22
Agriculture	GW	0.42	0.46	0.48	0.51	0.58	0.65	0.66	0.69	0.67	0.64	0.53	0.47	0.56
Agriculture	SW	0.63	0.57	0.72	1.27	1.80	2.18	2.24	2.25	1.92	1.62	0.73	0.62	1.39
Total	**GW**	**1.84**	**1.83**	**1.78**	**1.82**	**1.94**	**2.01**	**2.02**	**2.04**	**2.04**	**2.02**	**1.88**	**1.89**	**1.93**
Total	**SW**	**468.41**	**466.07**	**467.50**	**502.83**	**529.63**	**506.80**	**507.85**	**507.48**	**478.53**	**21.09**	**20.41**	**20.86**	**374.01**

Returns

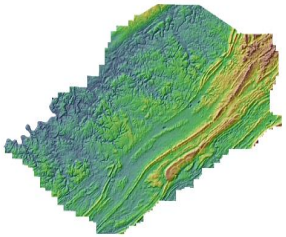
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		8.60	7.62	9.84	8.86	5.62	5.45	5.33	5.29	4.05	4.18	5.64	10.70	6.76
Industrial/Mining		6.52	6.47	6.73	6.46	5.37	6.14	7.24	6.84	6.47	6.75	6.92	7.72	6.64
Thermoelectric		446.28	445.71	445.71	481.21	506.55	483.13	483.13	483.13	455.34	0.00	0.00	0.00	352.52
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		**461.40**	**459.80**	**462.27**	**496.53**	**517.53**	**494.72**	**495.70**	**495.26**	**465.86**	**10.93**	**12.56**	**18.41**	**365.92**

JACKSON — **2015 FINAL DATA**

Total SW Withdrawals	SW	468.41	466.07	467.50	502.83	529.63	506.80	507.85	507.48	478.53	21.09	20.41	20.86	374.01
Total GW Withdrawals	GW	1.84	1.83	1.78	1.82	1.94	2.01	2.02	2.04	2.04	2.02	1.88	1.89	1.93
Withdrawal Total		470.25	467.90	469.28	504.65	531.57	508.81	509.87	509.52	480.57	23.11	22.29	22.75	375.94
Total Returns		**461.40**	**459.80**	**462.27**	**496.53**	**517.53**	**494.72**	**495.70**	**495.26**	**465.86**	**10.93**	**12.56**	**18.41**	**365.92**
Net SW (MGD)	**SW**	**7.01**	**6.27**	**5.23**	**6.30**	**12.09**	**12.08**	**12.15**	**12.22**	**12.67**	**10.16**	**7.85**	**2.45**	**8.87**


JACKSON
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

JEFFERSON



Population	660,367
Pop served by public supply	654,319

2015 Demands

Withdrawals

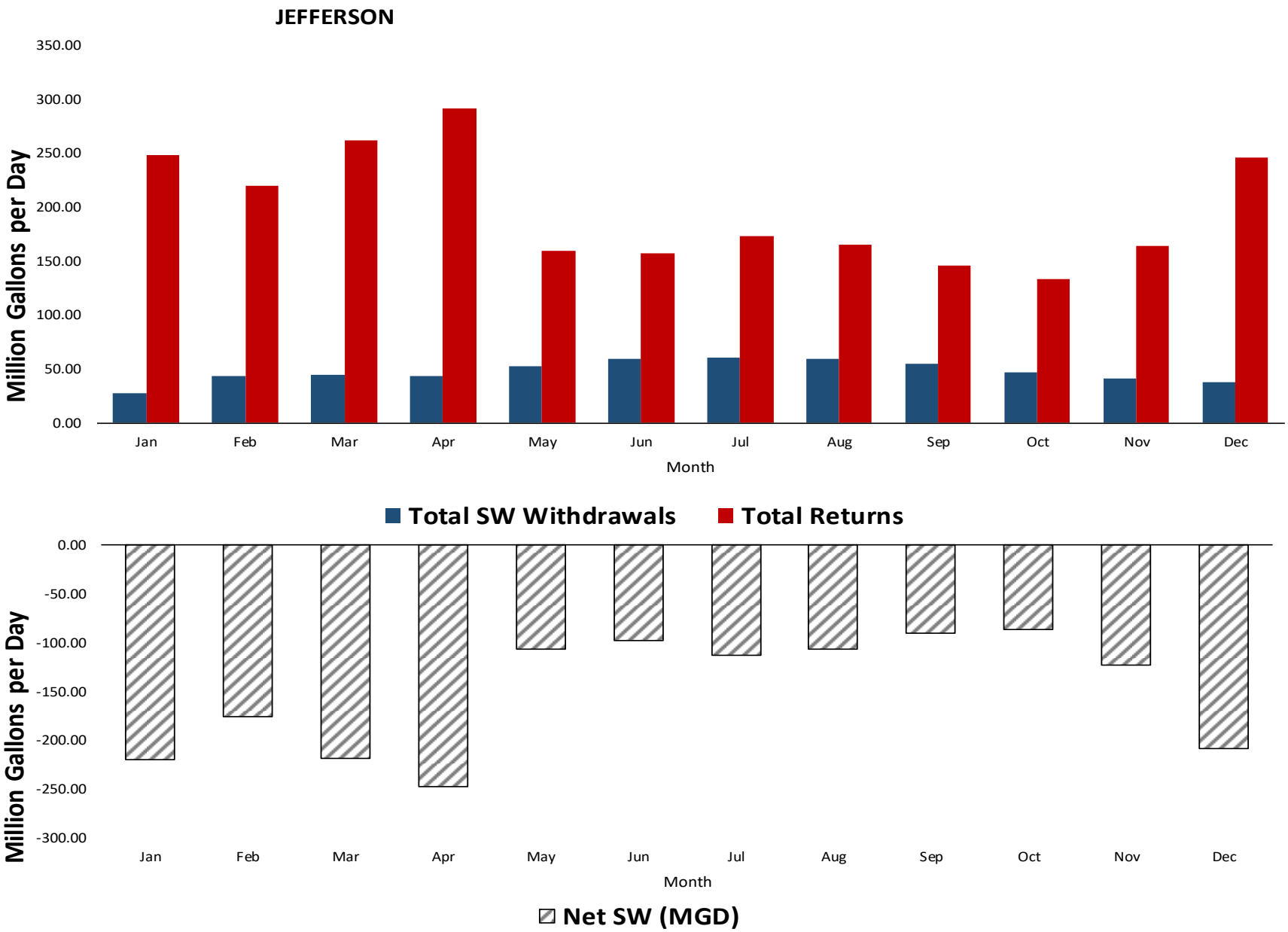
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	8.91	7.62	7.55	7.85	9.85	8.68	8.91	8.82	7.57	7.77	6.66	8.92	8.27
Public Supply	SW	25.77	41.46	41.59	38.55	43.73	48.35	48.89	47.62	44.68	38.91	38.39	35.36	41.09
Industrial/Mining	GW	1.28	1.36	1.30	1.34	1.52	1.19	1.38	1.76	1.40	1.58	1.54	2.23	1.49
Industrial/Mining	SW	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
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	0.08	0.09	0.10	0.12	0.14	0.14	0.15	0.14	0.14	0.10	0.08	0.11
Agriculture	SW	1.51	1.21	2.24	4.78	8.19	9.91	10.47	10.60	9.65	7.51	2.62	1.39	5.87
Total	**GW**	**10.26**	**9.06**	**8.93**	**9.28**	**11.48**	**10.01**	**10.42**	**10.72**	**9.11**	**9.48**	**8.30**	**11.23**	**9.87**
Total	**SW**	**27.75**	**43.14**	**44.31**	**43.80**	**52.39**	**58.73**	**59.84**	**58.69**	**54.79**	**46.89**	**41.48**	**37.22**	**47.43**

Returns

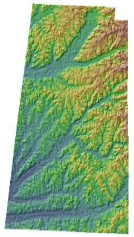
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		194.75	160.11	197.82	243.46	123.79	105.83	120.60	114.85	103.81	99.34	134.76	210.74	150.82
Industrial/Mining		50.94	51.48	48.50	43.99	26.83	47.56	48.90	45.97	31.63	24.29	23.95	27.88	39.33
Thermoelectric		2.47	8.14	16.16	3.53	8.35	3.27	3.79	4.51	9.87	9.60	5.30	7.11	6.84
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		**248.16**	**219.73**	**262.49**	**290.99**	**158.98**	**156.66**	**173.29**	**165.33**	**145.30**	**133.23**	**164.01**	**245.73**	**196.99**

JEFFERSON — **2015 FINAL DATA**

Total SW Withdrawals	SW	27.75	43.14	44.31	43.80	52.39	58.73	59.84	58.69	54.79	46.89	41.48	37.22	47.43
Total GW Withdrawals	GW	10.26	9.06	8.93	9.28	11.48	10.01	10.42	10.72	9.11	9.48	8.30	11.23	9.87
Withdrawal Total		38.01	52.20	53.24	53.08	63.87	68.74	70.26	69.41	63.91	56.37	49.78	48.45	57.30
Total Returns		**248.16**	**219.73**	**262.49**	**290.99**	**158.98**	**156.66**	**173.29**	**165.33**	**145.30**	**133.23**	**164.01**	**245.73**	**196.99**
Net SW (MGD)	**SW**	**-220.41**	**-176.59**	**-218.18**	**-247.18**	**-106.59**	**-97.93**	**-113.46**	**-106.65**	**-90.51**	**-86.34**	**-122.52**	**-208.51**	**-149.57**


JEFFERSON
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-50.00
-100.00
-150.00
-200.00
-250.00
-300.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

LAMAR



Population	13,886
Pop served by public supply	8,668

2015 Demands

Withdrawals

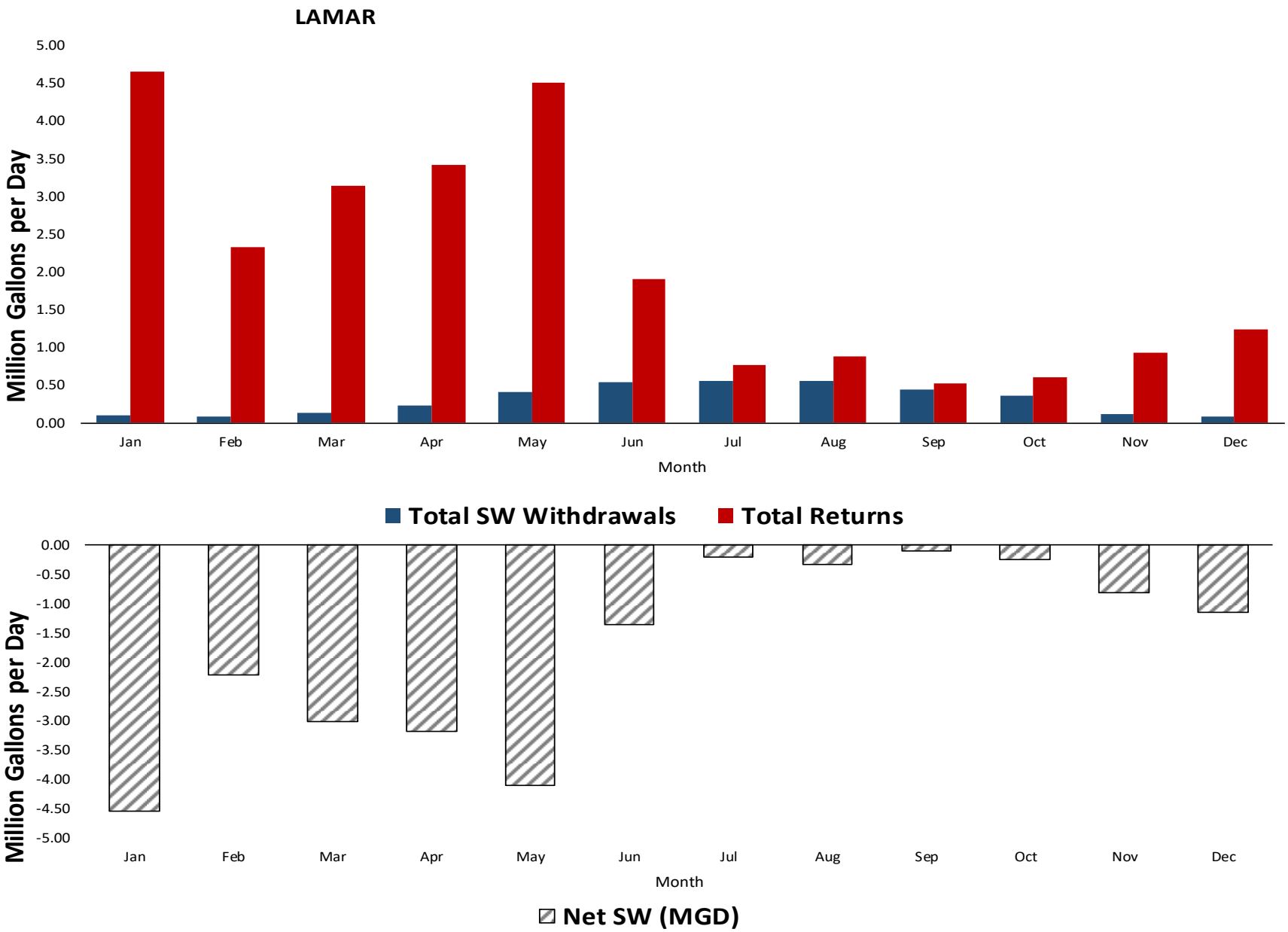
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.71	1.67	1.69	1.66	1.75	1.81	1.82	1.79	1.70	1.68	1.61	1.62	1.71
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.62	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	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	0.11	0.09	0.14	0.23	0.40	0.54	0.56	0.55	0.44	0.35	0.12	0.09	0.30
Total	**GW**	**1.95**	**1.86**	**1.80**	**1.71**	**1.80**	**1.86**	**1.87**	**1.84**	**1.75**	**1.74**	**1.86**	**2.29**	**1.86**
Total	**SW**	**0.11**	**0.09**	**0.14**	**0.23**	**0.40**	**0.54**	**0.56**	**0.55**	**0.44**	**0.35**	**0.12**	**0.09**	**0.30**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.19	1.84	2.28	3.08	4.30	1.88	0.61	0.70	0.50	0.42	0.65	0.84	1.77
Industrial/Mining		0.46	0.48	0.87	0.33	0.21	0.03	0.16	0.18	0.03	0.19	0.27	0.40	0.30
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		**4.65**	**2.32**	**3.15**	**3.42**	**4.51**	**1.91**	**0.77**	**0.88**	**0.53**	**0.61**	**0.92**	**1.23**	**2.07**

LAMAR — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.11	0.09	0.14	0.23	0.40	0.54	0.56	0.55	0.44	0.35	0.12	0.09	0.30
Total GW Withdrawals	GW	1.95	1.86	1.80	1.71	1.80	1.86	1.87	1.84	1.75	1.74	1.86	2.29	1.86
Withdrawal Total		2.06	1.95	1.94	1.94	2.20	2.40	2.43	2.39	2.19	2.09	1.98	2.38	2.16
Total Returns		**4.65**	**2.32**	**3.15**	**3.42**	**4.51**	**1.91**	**0.77**	**0.88**	**0.53**	**0.61**	**0.92**	**1.23**	**2.07**
Net SW (MGD)	**SW**	**-4.55**	**-2.23**	**-3.01**	**-3.18**	**-4.11**	**-1.37**	**-0.21**	**-0.33**	**-0.09**	**-0.26**	**-0.81**	**-1.15**	**-1.77**


LAMAR
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
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00
-3.50
-4.00
-4.50
-5.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

LAUDERDALE

Population	92,596
Pop served by public supply	77,817

2015 Demands

Withdrawals

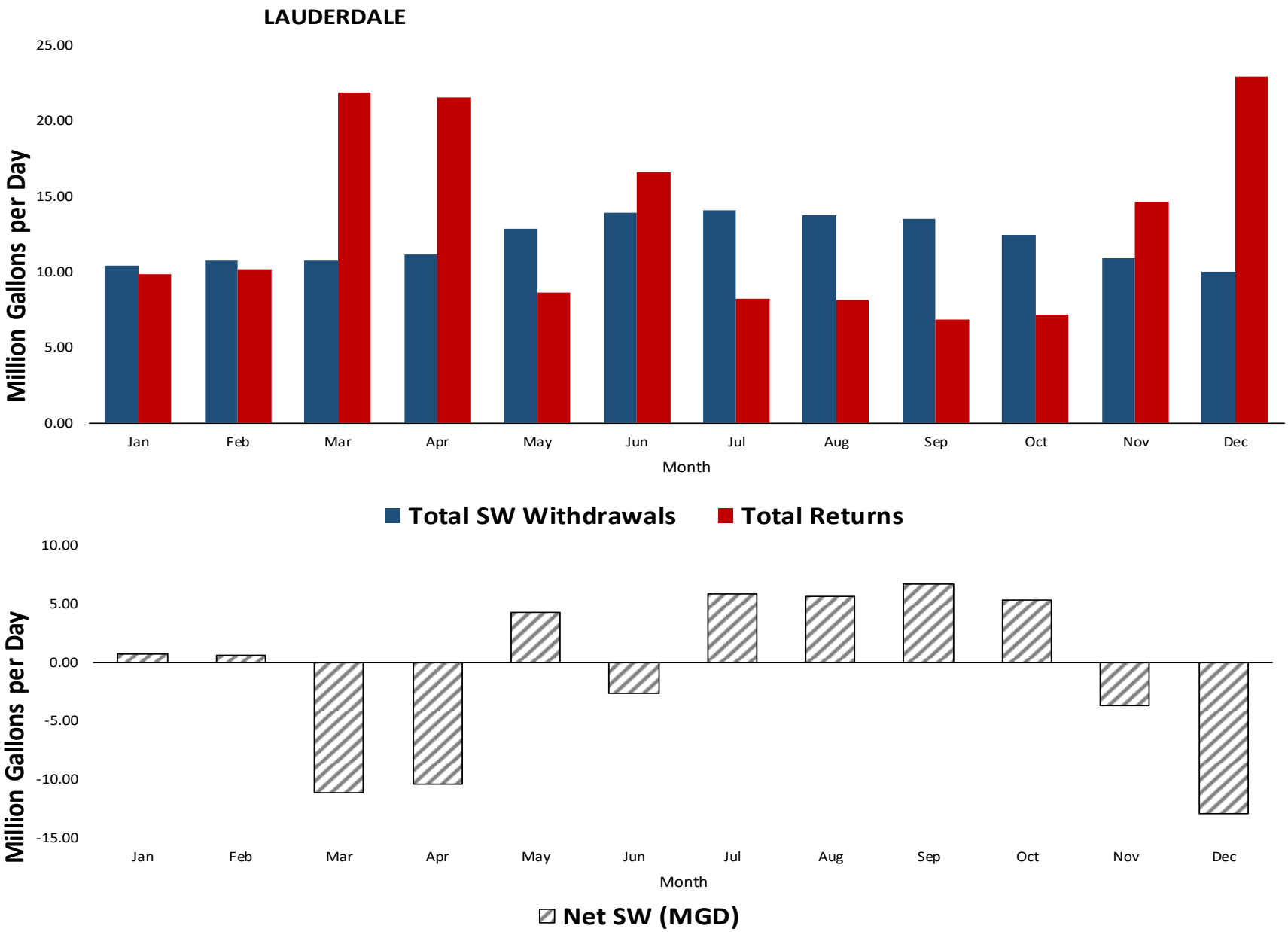
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.93	3.02	3.00	2.97	3.02	3.13	3.13	3.11	3.05	2.92	2.96	2.99	3.02
Public Supply	SW	9.91	10.10	9.92	9.83	10.91	11.59	11.67	11.26	11.31	10.61	10.01	9.33	10.54
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	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	0.43	0.50	0.56	0.63	0.82	1.04	1.08	1.05	0.91	0.84	0.61	0.51	0.75
Agriculture	SW	0.53	0.62	0.79	1.35	1.95	2.30	2.37	2.47	2.22	1.85	0.93	0.68	1.51
Total	**GW**	**3.36**	**3.52**	**3.56**	**3.60**	**3.84**	**4.17**	**4.21**	**4.16**	**3.96**	**3.76**	**3.57**	**3.50**	**3.77**
Total	**SW**	**10.44**	**10.72**	**10.71**	**11.18**	**12.86**	**13.89**	**14.04**	**13.73**	**13.53**	**12.46**	**10.94**	**10.01**	**12.05**

Returns

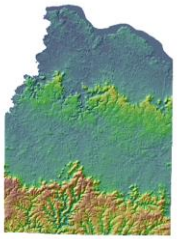
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		9.80	10.17	21.85	21.57	8.60	16.61	8.24	8.16	6.85	7.19	14.64	22.97	13.06
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**9.80**	**10.17**	**21.85**	**21.57**	**8.60**	**16.61**	**8.24**	**8.16**	**6.85**	**7.19**	**14.64**	**22.97**	**13.06**

LAUDERDALE — **2015 FINAL DATA**

Total SW Withdrawals	SW	10.44	10.72	10.71	11.18	12.86	13.89	14.04	13.73	13.53	12.46	10.94	10.01	12.05
Total GW Withdrawals	GW	3.36	3.52	3.56	3.60	3.84	4.17	4.21	4.16	3.96	3.76	3.57	3.50	3.77
Withdrawal Total		13.80	14.24	14.27	14.78	16.69	18.06	18.24	17.89	17.49	16.22	14.51	13.51	15.82
Total Returns		**9.80**	**10.17**	**21.85**	**21.57**	**8.60**	**16.61**	**8.24**	**8.16**	**6.85**	**7.19**	**14.64**	**22.97**	**13.06**
Net SW (MGD)	**SW**	**0.63**	**0.55**	**-11.14**	**-10.39**	**4.25**	**-2.72**	**5.80**	**5.57**	**6.67**	**5.27**	**-3.70**	**-12.96**	**-1.01**


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

LAWRENCE



Population	33,115
Pop served by public supply	27,629

2015 Demands

Withdrawals

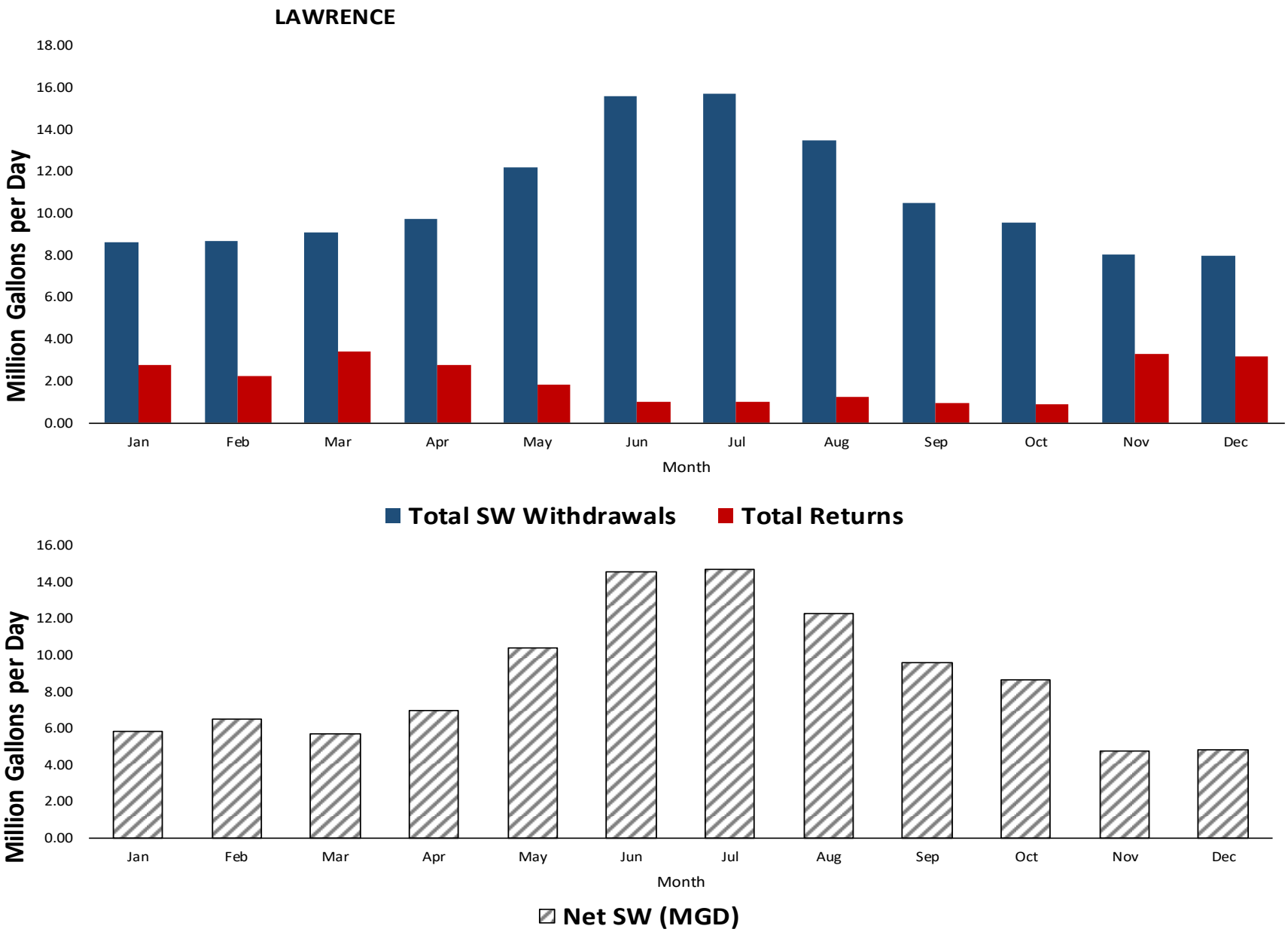
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Public Supply	SW	7.72	7.85	7.53	7.43	7.85	8.51	8.30	7.92	7.85	7.57	7.09	7.17	7.73
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.38	0.39	0.39	0.40	0.41	0.42	0.43	0.43	0.43	0.42	0.40	0.39	0.41
Agriculture	SW	0.86	0.82	1.53	2.27	4.31	7.04	7.39	5.56	2.65	1.99	0.95	0.79	3.03
Total	**GW**	**0.74**	**0.74**	**0.75**	**0.75**	**0.77**	**0.78**	**0.78**	**0.78**	**0.78**	**0.78**	**0.76**	**0.75**	**0.76**
Total	**SW**	**8.58**	**8.67**	**9.06**	**9.71**	**12.16**	**15.55**	**15.69**	**13.48**	**10.51**	**9.56**	**8.03**	**7.96**	**10.76**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.78	2.20	3.41	2.77	1.81	1.01	1.00	1.21	0.92	0.91	3.28	3.16	2.04
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		**2.78**	**2.20**	**3.41**	**2.77**	**1.81**	**1.01**	**1.00**	**1.21**	**0.92**	**0.91**	**3.28**	**3.16**	**2.04**

LAWRENCE — **2015 FINAL DATA**

Total SW Withdrawals	SW	8.58	8.67	9.06	9.71	12.16	15.55	15.69	13.48	10.51	9.56	8.03	7.96	10.76
Total GW Withdrawals	GW	0.74	0.74	0.75	0.75	0.77	0.78	0.78	0.78	0.78	0.78	0.76	0.75	0.76
Withdrawal Total		9.32	9.41	9.81	10.46	12.92	16.33	16.47	14.26	11.29	10.34	8.79	8.70	11.52
Total Returns		**2.78**	**2.20**	**3.41**	**2.77**	**1.81**	**1.01**	**1.00**	**1.21**	**0.92**	**0.91**	**3.28**	**3.16**	**2.04**
Net SW (MGD)	**SW**	**5.81**	**6.47**	**5.65**	**6.94**	**10.35**	**14.54**	**14.70**	**12.27**	**9.59**	**8.65**	**4.76**	**4.80**	**8.71**


LAWRENCE
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
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
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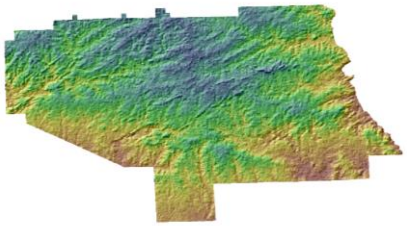
Oct
Nov
Dec
Month
Net SW (MGD)

LEE



Population	156,993
Pop served by public supply	147,603

2015 Demands

Withdrawals

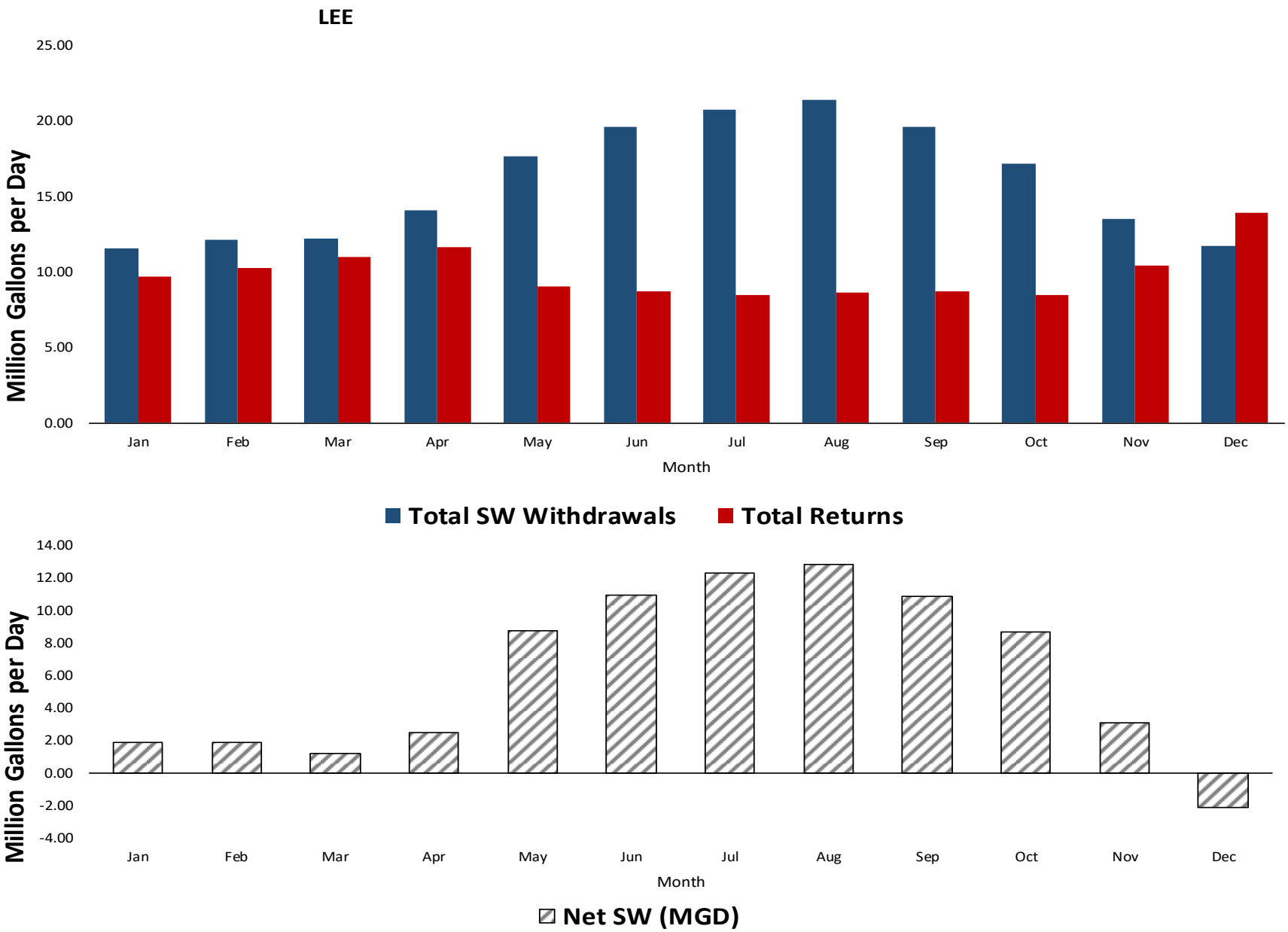
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.54	3.52	3.47	3.42	3.70	3.73	3.86	3.81	3.72	3.60	3.34	2.99	3.56
Public Supply	SW	11.04	11.30	10.83	11.87	13.81	14.63	15.54	15.95	14.80	13.35	11.93	10.85	13.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	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	0.18	0.21	0.24	0.29	0.39	0.53	0.55	0.52	0.42	0.38	0.26	0.21	0.35
Agriculture	SW	0.50	0.86	1.34	2.24	3.88	4.99	5.20	5.47	4.77	3.82	1.57	0.88	2.97
Total	**GW**	**3.72**	**3.73**	**3.71**	**3.71**	**4.10**	**4.26**	**4.41**	**4.33**	**4.15**	**3.98**	**3.60**	**3.21**	**3.91**
Total	**SW**	**11.54**	**12.16**	**12.16**	**14.11**	**17.69**	**19.63**	**20.74**	**21.42**	**19.57**	**17.17**	**13.51**	**11.73**	**15.97**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		9.68	10.29	11.00	11.63	8.99	8.69	8.48	8.60	8.72	8.50	10.45	13.87	9.91
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		**9.68**	**10.29**	**11.00**	**11.63**	**8.99**	**8.69**	**8.48**	**8.60**	**8.72**	**8.50**	**10.45**	**13.87**	**9.91**

LEE — **2015 FINAL DATA**

Total SW Withdrawals	SW	11.54	12.16	12.16	14.11	17.69	19.63	20.74	21.42	19.57	17.17	13.51	11.73	15.97
Total GW Withdrawals	GW	3.72	3.73	3.71	3.71	4.10	4.26	4.41	4.33	4.15	3.98	3.60	3.21	3.91
Withdrawal Total		15.26	15.89	15.87	17.82	21.78	23.88	25.16	25.75	23.71	21.15	17.11	14.93	19.88
Total Returns		**9.68**	**10.29**	**11.00**	**11.63**	**8.99**	**8.69**	**8.48**	**8.60**	**8.72**	**8.50**	**10.45**	**13.87**	**9.91**
Net SW (MGD)	**SW**	**1.86**	**1.87**	**1.17**	**2.48**	**8.70**	**10.94**	**12.27**	**12.83**	**10.85**	**8.67**	**3.06**	**-2.14**	**6.05**


LEE
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
-4.00
Million Gallons per Day
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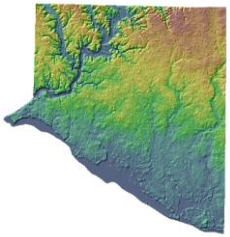
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

LIMESTONE



Population	91,663
Pop served by public supply	78,965

2015 Demands

Withdrawals

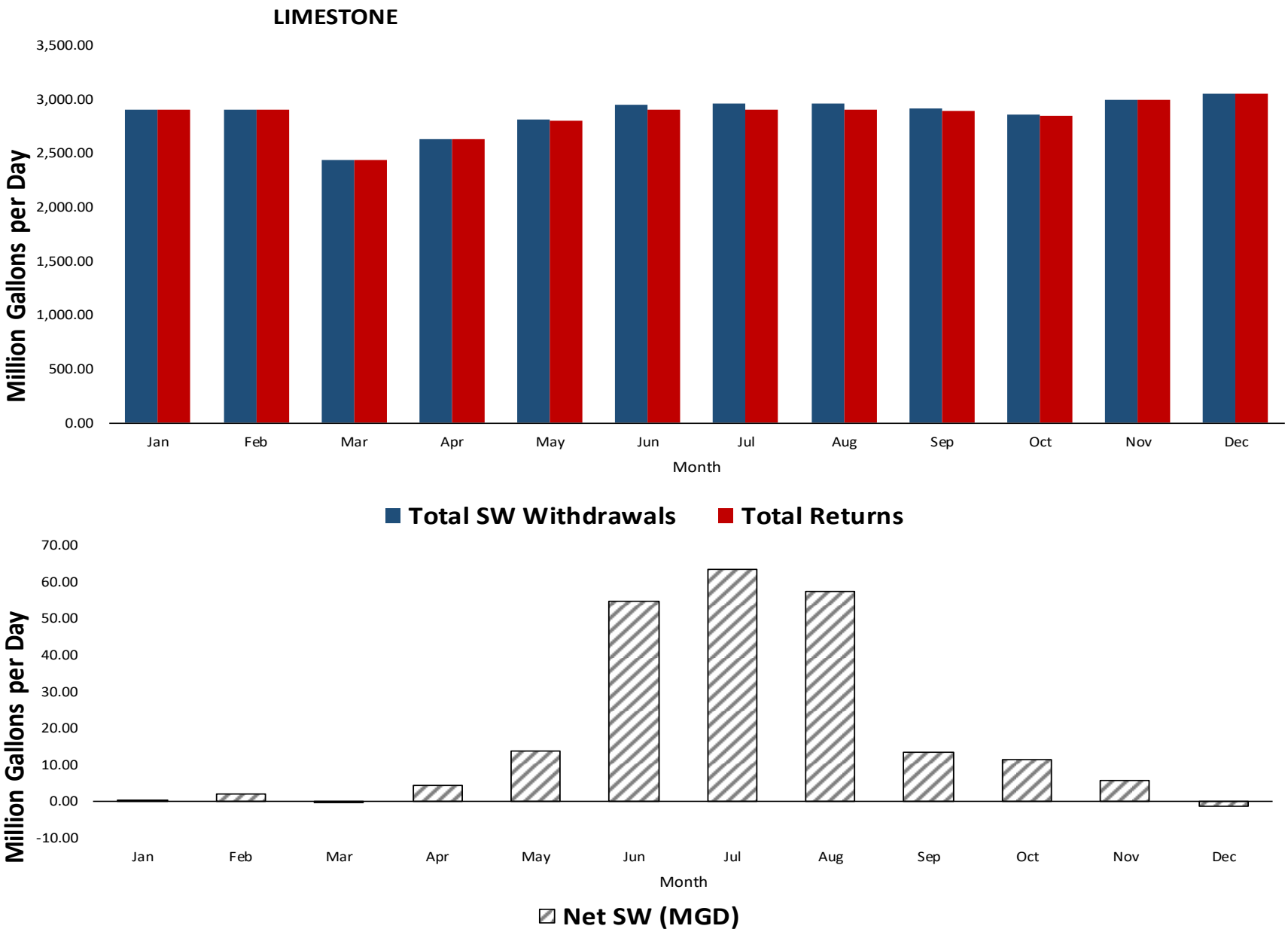
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.55	4.48	4.66	5.22	5.46	4.91	4.78	4.90	4.61	4.45	4.74	4.31	4.84
Public Supply	SW	6.94	7.11	6.83	6.78	7.43	8.40	8.60	8.31	8.29	8.11	7.67	7.51	7.67
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2,895.70	2,895.70	2,428.90	2,618.70	2,796.40	2,926.98	2,934.41	2,933.25	2,895.70	2,846.00	2,990.30	3,045.00	2,850.13
Agriculture	GW	1.14	1.37	1.72	2.12	3.20	4.60	4.80	4.28	3.16	2.77	1.76	1.39	2.70
Agriculture	SW	1.20	1.40	3.36	5.34	11.02	18.47	19.40	14.86	7.11	5.17	1.93	1.29	7.59
Total	**GW**	**6.69**	**5.85**	**6.38**	**7.34**	**8.66**	**9.51**	**9.58**	**9.18**	**7.76**	**7.22**	**6.51**	**5.70**	**7.54**
Total	**SW**	**2,903.84**	**2,904.21**	**2,439.09**	**2,630.82**	**2,814.85**	**2,953.85**	**2,962.41**	**2,956.43**	**2,911.09**	**2,859.28**	**2,999.90**	**3,053.80**	**2,865.39**

Returns

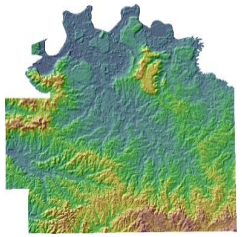
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		9.26	8.09	11.81	9.12	6.05	4.87	4.73	4.72	3.47	3.40	5.44	11.68	6.89
Industrial/Mining		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Thermoelectric		2,894.30	2,894.30	2,427.50	2,617.30	2,795.00	2,894.30	2,894.30	2,894.30	2,894.30	2,844.60	2,988.90	3,043.60	2,840.23
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		**2,903.57**	**2,902.39**	**2,439.31**	**2,626.42**	**2,801.06**	**2,899.18**	**2,899.04**	**2,899.03**	**2,897.78**	**2,848.01**	**2,994.35**	**3,055.28**	**2,847.12**

LIMESTONE — **2015 FINAL DATA**

Total SW Withdrawals	SW	2,903.84	2,904.21	2,439.09	2,630.82	2,814.85	2,953.85	2,962.41	2,956.43	2,911.09	2,859.28	2,999.90	3,053.80	2,865.39
Total GW Withdrawals	GW	6.69	5.85	6.38	7.34	8.66	9.51	9.58	9.18	7.76	7.22	6.51	5.70	7.54
Withdrawal Total		2,910.53	2,910.06	2,445.47	2,638.15	2,823.51	2,963.36	2,972.00	2,965.61	2,918.86	2,866.50	3,006.41	3,059.50	2,872.94
Total Returns		**2,903.57**	**2,902.39**	**2,439.31**	**2,626.42**	**2,801.06**	**2,899.18**	**2,899.04**	**2,899.03**	**2,897.78**	**2,848.01**	**2,994.35**	**3,055.28**	**2,847.12**
Net SW (MGD)	**SW**	**0.27**	**1.82**	**-0.22**	**4.39**	**13.79**	**54.67**	**63.38**	**57.40**	**13.31**	**11.28**	**5.55**	**-1.48**	**18.68**


LIMESTONE
3,500.00
3,000.00
2,500.00
2,000.00
1,500.00
1,000.00
500.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
-10.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

LOWNDES



Population	10,458
Pop served by public supply	9,713

2015 Demands

Withdrawals

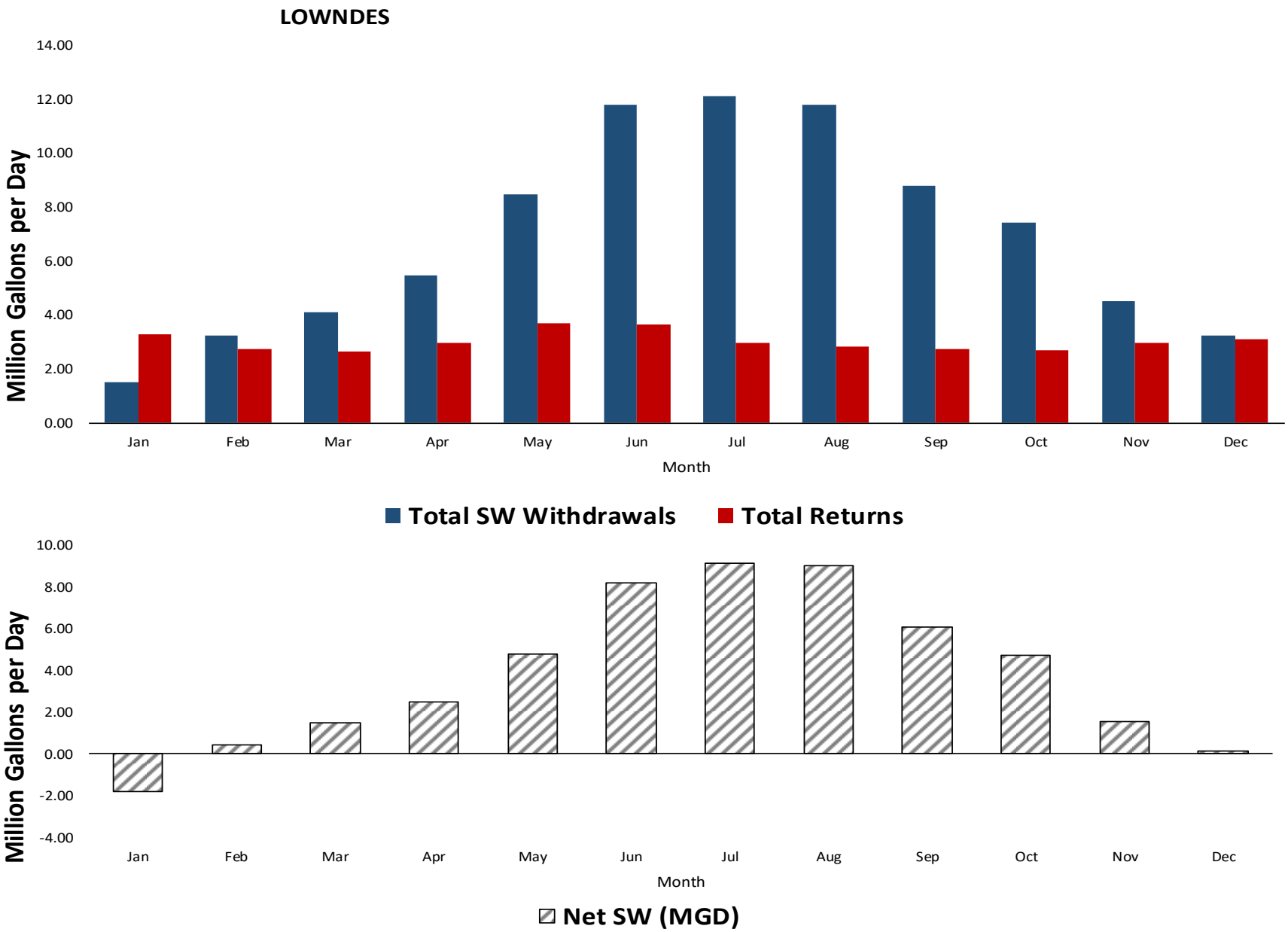
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.02	0.91	0.94	0.95	1.00	1.00	1.03	1.06	0.99	1.02	1.02	0.99	1.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	4.26	4.08	4.19	4.37	4.45	4.61	4.58	4.56	4.55	4.33	4.50	4.26	4.40
Industrial/Mining	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
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	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Agriculture	SW	1.41	3.14	4.04	5.37	8.41	11.72	12.04	11.71	8.73	7.35	4.44	3.15	6.81
Total	**GW**	**6.20**	**5.91**	**6.06**	**6.24**	**6.37**	**6.53**	**6.54**	**6.54**	**6.46**	**6.27**	**6.44**	**6.17**	**6.31**
Total	**SW**	**1.49**	**3.22**	**4.12**	**5.45**	**8.49**	**11.80**	**12.12**	**11.79**	**8.81**	**7.43**	**4.52**	**3.23**	**6.89**

Returns

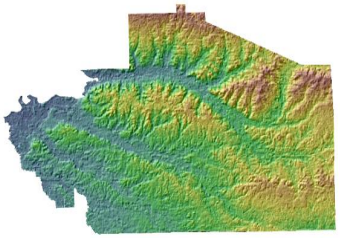
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.13	0.06	0.16	0.11	1.06	0.48	0.04	0.02	0.03	0.08	0.07	0.07	0.19
Industrial/Mining		3.13	2.69	2.49	2.83	2.63	3.15	2.94	2.78	2.69	2.59	2.89	3.04	2.82
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**3.26**	**2.75**	**2.65**	**2.94**	**3.69**	**3.63**	**2.98**	**2.80**	**2.72**	**2.68**	**2.97**	**3.10**	**3.01**

LOWNDES — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.49	3.22	4.12	5.45	8.49	11.80	12.12	11.79	8.81	7.43	4.52	3.23	6.89
Total GW Withdrawals	GW	6.20	5.91	6.06	6.24	6.37	6.53	6.54	6.54	6.46	6.27	6.44	6.17	6.31
Withdrawal Total		7.69	9.13	10.18	11.69	14.86	18.32	18.65	18.34	15.27	13.70	10.96	9.40	13.21
Total Returns		**3.26**	**2.75**	**2.65**	**2.94**	**3.69**	**3.63**	**2.98**	**2.80**	**2.72**	**2.68**	**2.97**	**3.10**	**3.01**
Net SW (MGD)	**SW**	**-1.78**	**0.46**	**1.47**	**2.51**	**4.80**	**8.17**	**9.14**	**8.99**	**6.09**	**4.75**	**1.55**	**0.12**	**3.86**


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

MACON



Population	19,105
Pop served by public supply	16,294

2015 Demands

Withdrawals

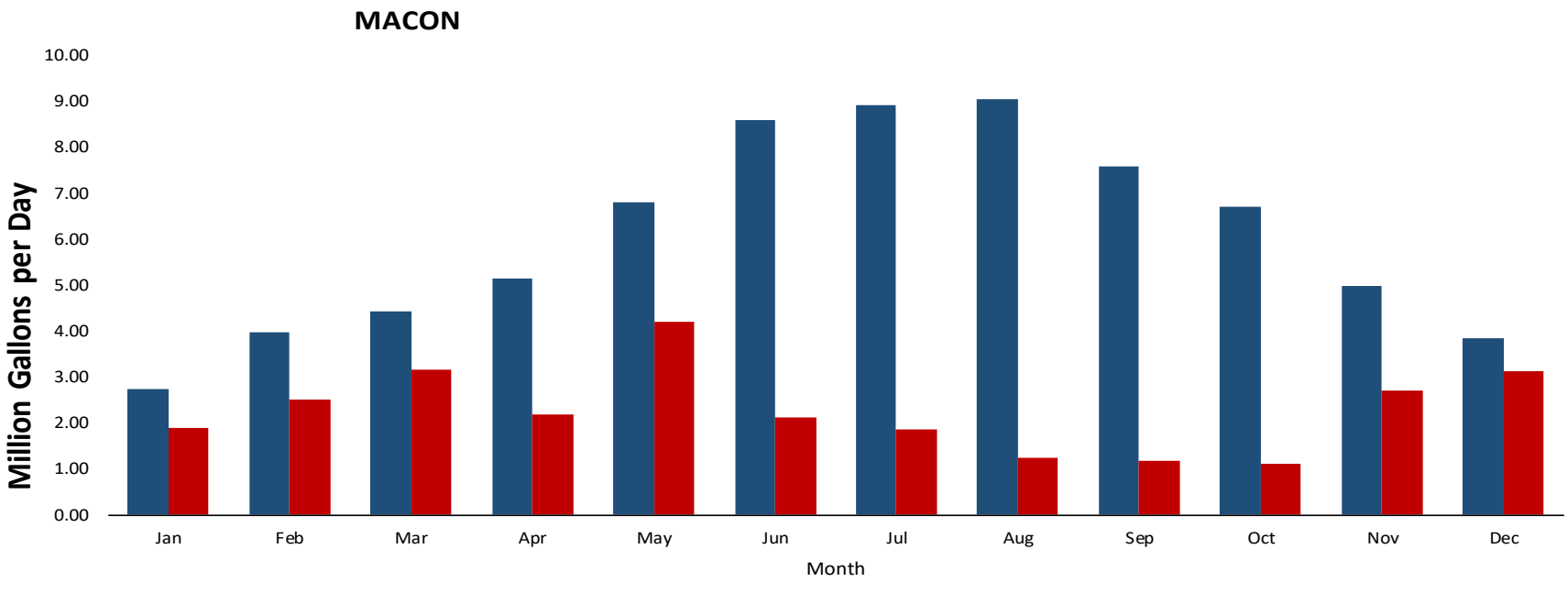
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.82	0.60	0.68	0.77	0.55	0.60	1.57	1.79	2.42	2.43	1.35	2.58	1.52
Public Supply	SW	1.99	1.93	1.95	1.83	1.84	2.02	2.19	2.01	1.90	1.88	2.02	1.80	1.95
Industrial/Mining	GW	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Industrial/Mining	SW	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
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	1.11	1.42	1.64	1.96	2.68	3.55	3.68	3.66	3.20	2.91	1.91	1.48	2.44
Agriculture	SW	0.23	1.51	1.97	2.78	4.43	6.06	6.20	6.51	5.16	4.32	2.44	1.53	3.61
Total	**GW**	**4.99**	**3.07**	**3.37**	**3.77**	**4.28**	**5.19**	**6.30**	**6.49**	**6.67**	**6.40**	**4.31**	**5.11**	**5.01**
Total	**SW**	**2.74**	**3.96**	**4.44**	**5.13**	**6.79**	**8.60**	**8.90**	**9.04**	**7.58**	**6.72**	**4.98**	**3.85**	**6.07**

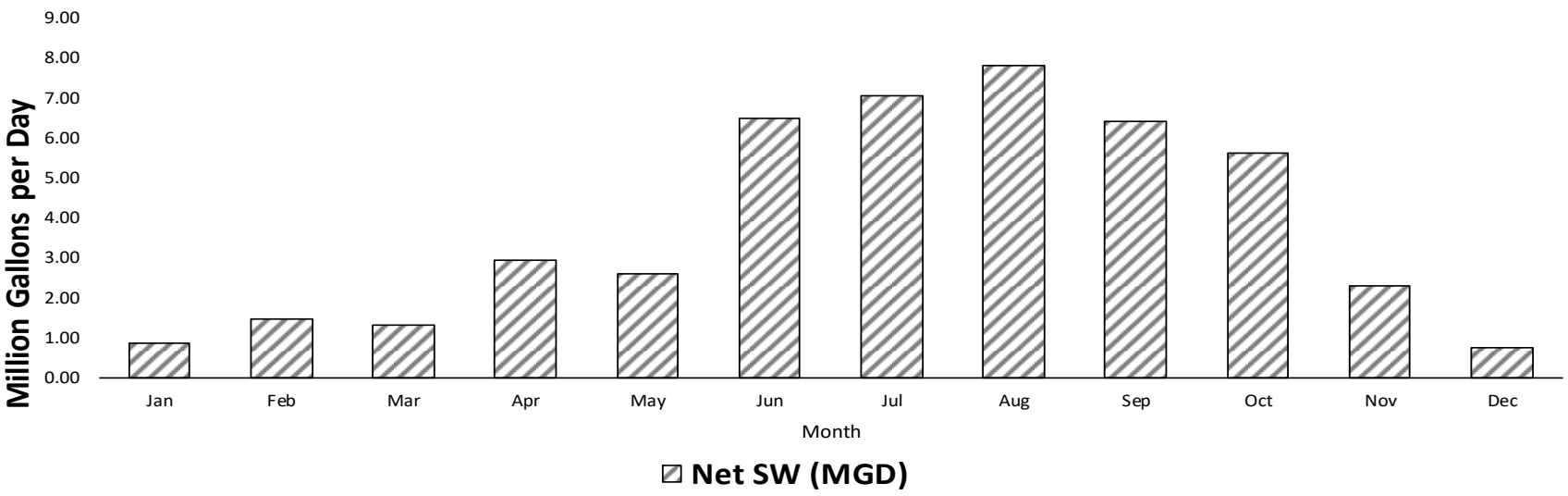
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.89	2.51	3.15	2.19	4.21	2.12	1.85	1.24	1.17	1.10	2.71	3.12	2.27
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		**1.89**	**2.51**	**3.15**	**2.19**	**4.21**	**2.12**	**1.85**	**1.24**	**1.17**	**1.10**	**2.71**	**3.12**	**2.27**

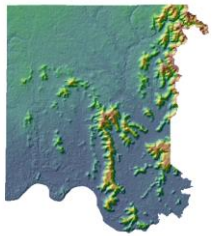
MACON — **2015 FINAL DATA**

Total SW Withdrawals	SW	2.74	3.96	4.44	5.13	6.79	8.60	8.90	9.04	7.58	6.72	4.98	3.85	6.07
Total GW Withdrawals	GW	4.99	3.07	3.37	3.77	4.28	5.19	6.30	6.49	6.67	6.40	4.31	5.11	5.01
Withdrawal Total		7.73	7.03	7.81	8.90	11.07	13.79	15.20	15.53	14.25	13.11	9.29	8.96	11.08
Total Returns		**1.89**	**2.51**	**3.15**	**2.19**	**4.21**	**2.12**	**1.85**	**1.24**	**1.17**	**1.10**	**2.71**	**3.12**	**2.27**
Net SW (MGD)	**SW**	**0.86**	**1.45**	**1.29**	**2.93**	**2.59**	**6.49**	**7.05**	**7.80**	**6.41**	**5.61**	**2.27**	**0.73**	**3.79**


MACON
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
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
Net SW (MGD)

MADISON



Population	353,089
Pop served by public supply	342,658

2015 Demands

Withdrawals

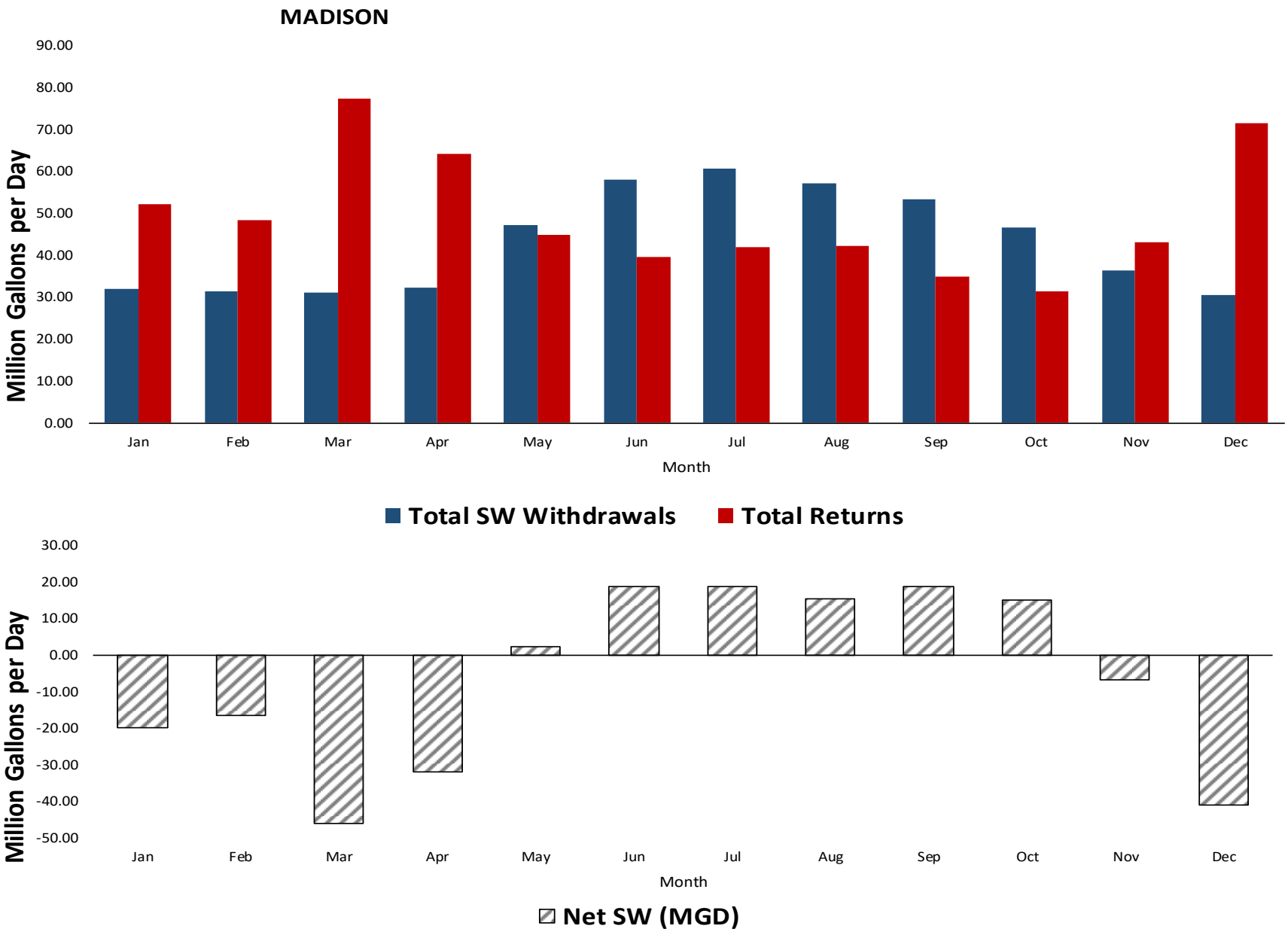
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	27.65	28.97	27.63	27.10	31.00	33.10	36.60	32.25	30.96	28.09	26.24	26.94	29.72
Public Supply	SW	30.55	29.91	28.60	28.43	40.59	49.45	51.19	48.29	46.45	40.88	34.26	29.18	38.20
Industrial/Mining	GW	0.00	0.00	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	0.60	0.70	0.63	0.61	0.48	0.43	0.68	0.61	0.53	0.51	0.50	0.40	0.55
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	1.37	1.54	2.67	3.70	6.96	11.39	11.98	9.35	4.99	3.94	2.01	1.51	5.14
Agriculture	SW	0.89	0.87	1.72	3.17	5.95	8.25	8.64	8.30	6.46	5.03	1.57	0.85	4.33
Total	**GW**	**29.02**	**30.51**	**30.30**	**30.79**	**37.96**	**44.50**	**48.58**	**41.60**	**35.95**	**32.03**	**28.26**	**28.45**	**34.86**
Total	**SW**	**32.03**	**31.47**	**30.96**	**32.21**	**47.02**	**58.13**	**60.51**	**57.20**	**53.44**	**46.42**	**36.32**	**30.43**	**43.08**

Returns

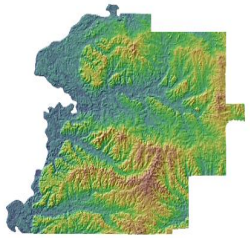
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		50.56	46.96	62.56	63.03	43.81	38.27	40.36	41.10	33.46	30.37	41.92	68.72	46.76
Industrial/Mining		1.59	1.25	14.66	1.21	0.98	1.12	1.40	0.94	1.35	1.10	1.21	2.81	2.47
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**52.15**	**48.21**	**77.22**	**64.24**	**44.79**	**39.39**	**41.76**	**42.04**	**34.81**	**31.48**	**43.13**	**71.53**	**49.23**

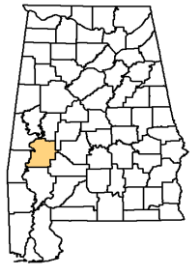
MADISON — **2015 FINAL DATA**

Total SW Withdrawals	SW	32.03	31.47	30.96	32.21	47.02	58.13	60.51	57.20	53.44	46.42	36.32	30.43	43.08
Total GW Withdrawals	GW	29.02	30.51	30.30	30.79	37.96	44.50	48.58	41.60	35.95	32.03	28.26	28.45	34.86
Withdrawal Total		61.05	61.98	61.26	63.00	84.99	102.62	109.10	98.80	89.39	78.45	64.58	58.87	77.95
Total Returns		**52.15**	**48.21**	**77.22**	**64.24**	**44.79**	**39.39**	**41.76**	**42.04**	**34.81**	**31.48**	**43.13**	**71.53**	**49.23**
Net SW (MGD)	**SW**	**-20.12**	**-16.74**	**-46.27**	**-32.04**	**2.23**	**18.73**	**18.75**	**15.16**	**18.63**	**14.94**	**-6.81**	**-41.11**	**-6.22**


MADISON
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

MARENGO





Population	20,028
Pop served by public supply	11,563

2015 Demands

Withdrawals

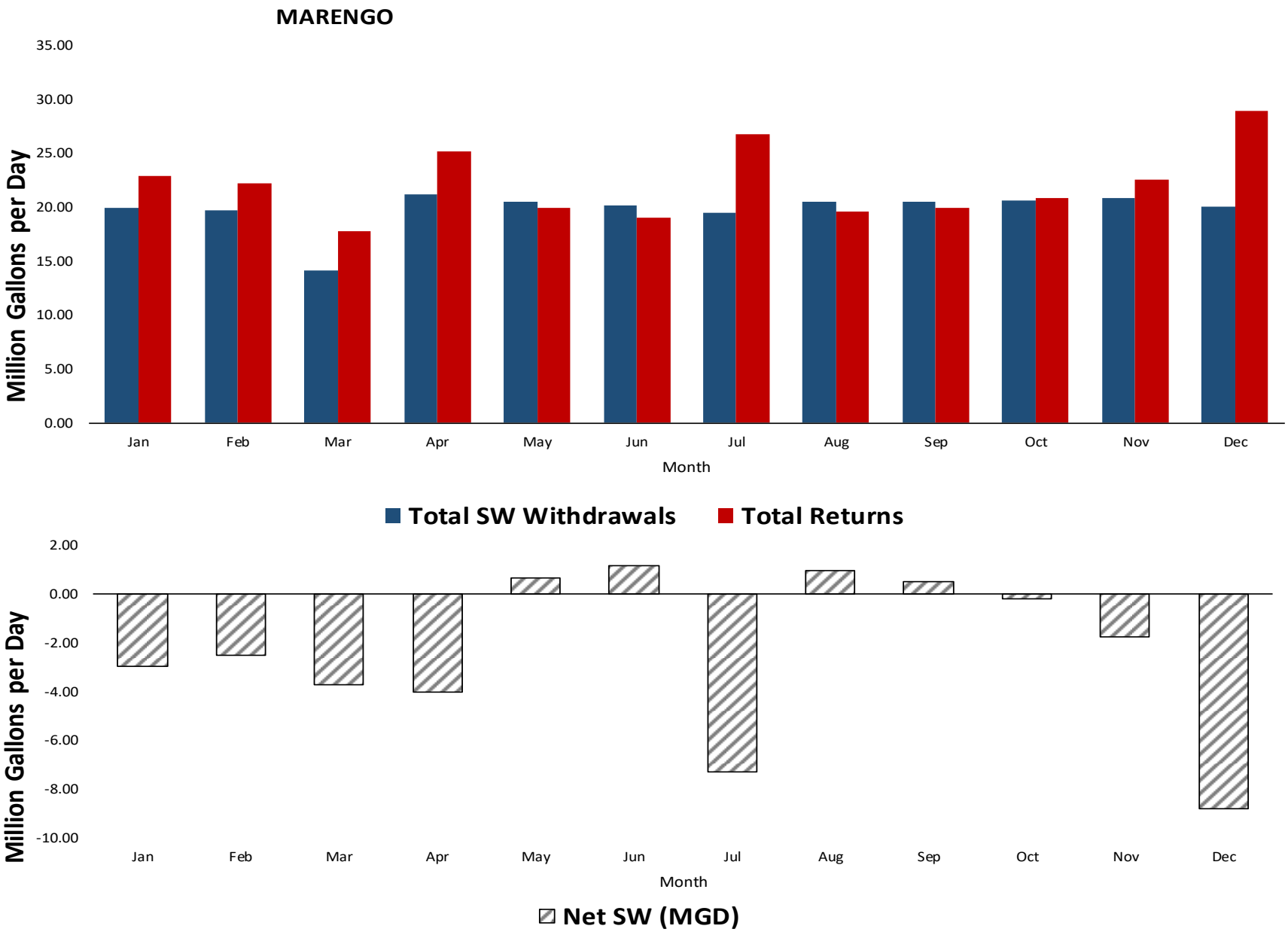
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.26	3.22	3.25	3.23	3.26	3.25	3.32	3.45	3.42	3.44	3.23	3.22	3.30
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industrial/Mining	SW	18.71	18.51	12.91	19.81	19.11	18.71	18.01	19.01	19.01	19.21	19.61	18.91	18.45
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	0.82	0.82	0.87	0.91	1.06	1.27	1.29	1.15	0.93	0.89	0.82	0.81	0.97
Agriculture	SW	1.17	1.15	1.17	1.35	1.44	1.48	1.49	1.51	1.47	1.41	1.20	1.18	1.34
Total	**GW**	**4.11**	**4.06**	**4.14**	**4.16**	**4.34**	**4.54**	**4.64**	**4.62**	**4.37**	**4.35**	**4.07**	**4.05**	**4.29**
Total	**SW**	**19.88**	**19.66**	**14.08**	**21.16**	**20.55**	**20.19**	**19.50**	**20.52**	**20.48**	**20.62**	**20.81**	**20.09**	**19.79**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.36	3.58	3.52	4.39	1.42	1.32	7.39	1.15	1.17	1.13	2.58	9.70	3.39
Industrial/Mining		19.50	18.60	14.30	20.80	18.50	17.70	19.40	18.40	18.80	19.70	20.00	19.20	18.74
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		**22.86**	**22.18**	**17.82**	**25.19**	**19.92**	**19.02**	**26.79**	**19.55**	**19.97**	**20.83**	**22.58**	**28.90**	**22.13**

MARENGO — **2015 FINAL DATA**

Total SW Withdrawals	SW	19.88	19.66	14.08	21.16	20.55	20.19	19.50	20.52	20.48	20.62	20.81	20.09	19.79
Total GW Withdrawals	GW	4.11	4.06	4.14	4.16	4.34	4.54	4.64	4.62	4.37	4.35	4.07	4.05	4.29
Withdrawal Total		23.98	23.72	18.22	25.32	24.89	24.73	24.14	25.14	24.85	24.97	24.88	24.14	24.08
Total Returns		**22.86**	**22.18**	**17.82**	**25.19**	**19.92**	**19.02**	**26.79**	**19.55**	**19.97**	**20.83**	**22.58**	**28.90**	**22.13**
Net SW (MGD)	**SW**	**-2.98**	**-2.52**	**-3.74**	**-4.03**	**0.63**	**1.18**	**-7.29**	**0.97**	**0.51**	**-0.21**	**-1.77**	**-8.82**	**-2.34**


MARENGO
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
Million Gallons per Day
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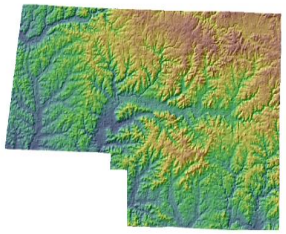
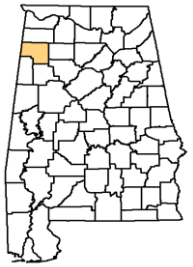
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

MARION





Population	30,168
Pop served by public supply	20,279

2015 Demands

Withdrawals

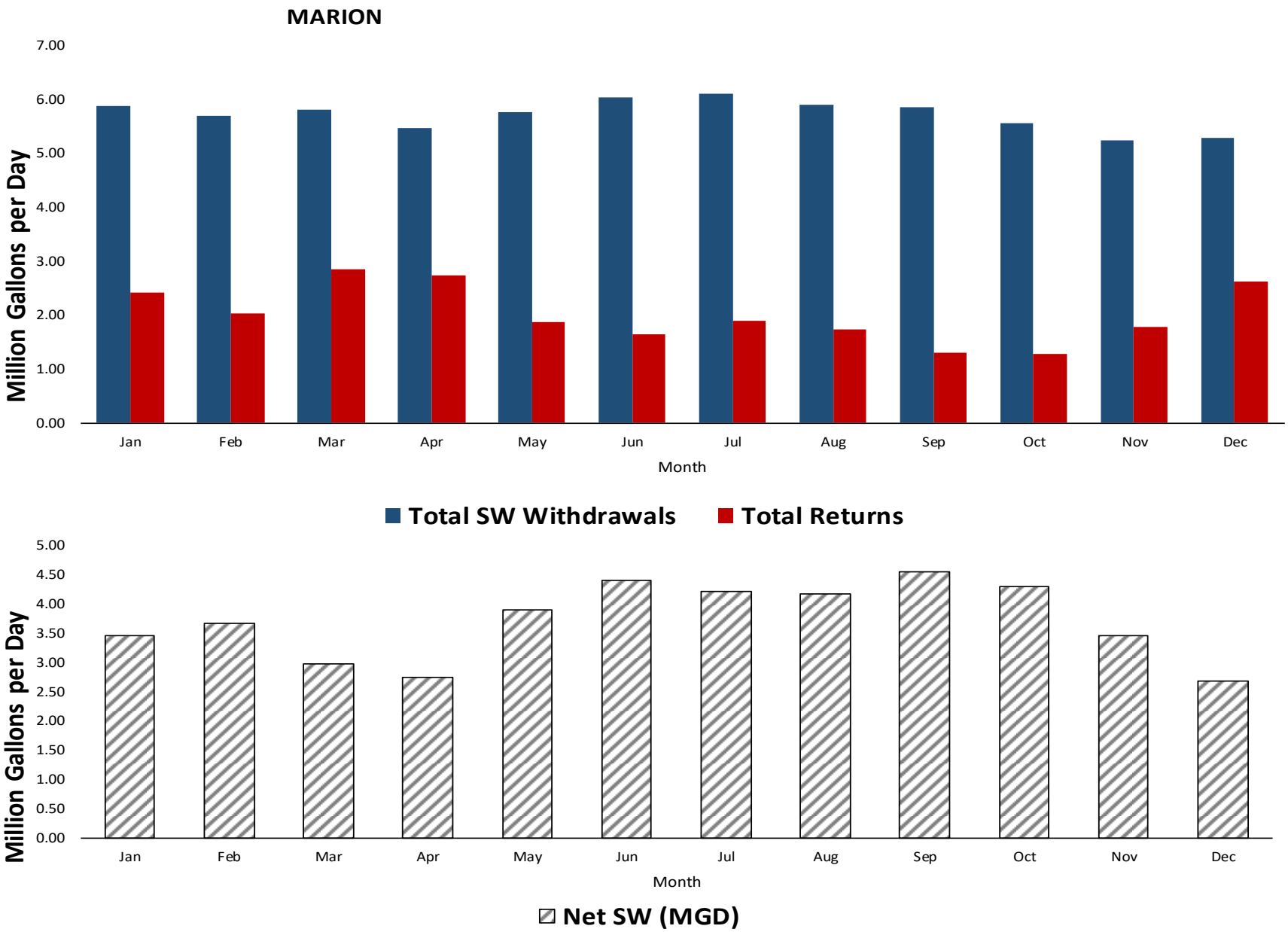
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.28	1.30	1.41	1.29	1.26	1.32	1.32	1.32	1.29	1.28	1.28	1.27	1.30
Public Supply	SW	5.57	5.41	5.51	5.10	5.29	5.52	5.58	5.31	5.27	5.05	4.94	5.00	5.30
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.21	0.20	0.24	0.27	0.36	0.49	0.51	0.42	0.28	0.25	0.21	0.20	0.30
Agriculture	SW	0.29	0.28	0.30	0.38	0.47	0.51	0.52	0.58	0.57	0.51	0.31	0.28	0.42
Total	**GW**	**1.48**	**1.50**	**1.65**	**1.56**	**1.62**	**1.82**	**1.83**	**1.74**	**1.57**	**1.53**	**1.48**	**1.47**	**1.60**
Total	**SW**	**5.87**	**5.69**	**5.81**	**5.47**	**5.76**	**6.03**	**6.10**	**5.89**	**5.85**	**5.56**	**5.24**	**5.28**	**5.71**

Returns

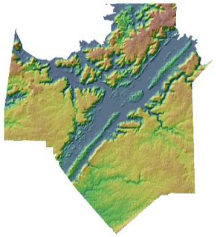
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.41	2.03	2.84	2.74	1.86	1.64	1.89	1.73	1.30	1.28	1.79	2.61	2.01
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**2.41**	**2.03**	**2.84**	**2.74**	**1.86**	**1.64**	**1.89**	**1.73**	**1.30**	**1.28**	**1.79**	**2.61**	**2.01**

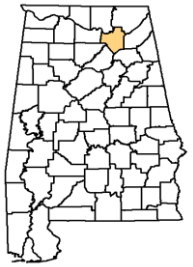
MARION — **2015 FINAL DATA**

Total SW Withdrawals	SW	5.87	5.69	5.81	5.47	5.76	6.03	6.10	5.89	5.85	5.56	5.24	5.28	5.71
Total GW Withdrawals	GW	1.48	1.50	1.65	1.56	1.62	1.82	1.83	1.74	1.57	1.53	1.48	1.47	1.60
Withdrawal Total		7.35	7.19	7.46	7.03	7.39	7.85	7.93	7.63	7.41	7.09	6.73	6.75	7.32
Total Returns		**2.41**	**2.03**	**2.84**	**2.74**	**1.86**	**1.64**	**1.89**	**1.73**	**1.30**	**1.28**	**1.79**	**2.61**	**2.01**
Net SW (MGD)	**SW**	**3.45**	**3.66**	**2.97**	**2.73**	**3.90**	**4.39**	**4.21**	**4.16**	**4.54**	**4.29**	**3.46**	**2.67**	**3.70**


MARION
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

MARSHALL





Population	94,725
Pop served by public supply	88,680

2015 Demands

Withdrawals

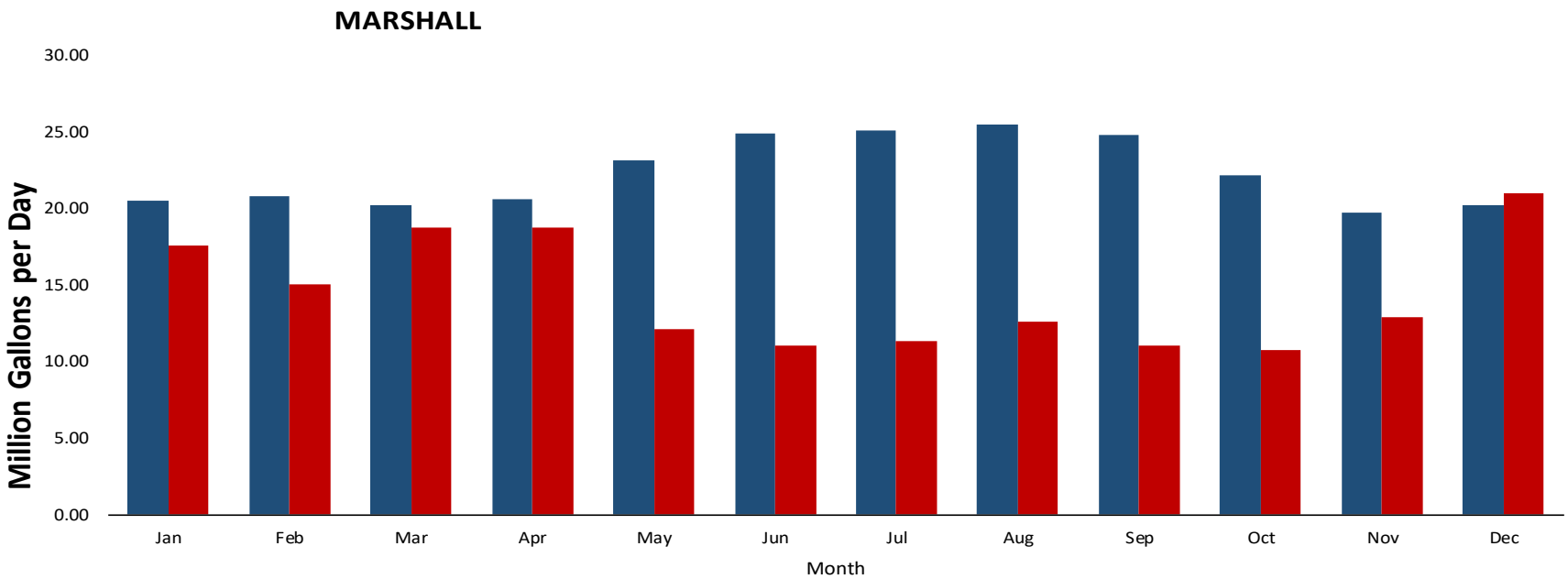
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.64	3.61	3.45	3.58	4.01	3.93	4.14	3.97	3.79	3.27	3.80	3.69	3.74
Public Supply	SW	19.68	20.05	19.27	19.10	20.79	22.29	22.38	22.33	21.72	19.56	18.80	19.44	20.45
Industrial/Mining	GW	0.08	0.09	0.08	0.09	0.09	0.08	0.09	0.02	0.07	0.09	0.09	0.09	0.08
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	0.94	1.06	1.11	1.20	1.38	1.59	1.62	1.69	1.65	1.57	1.23	1.08	1.35
Agriculture	SW	0.84	0.72	0.92	1.53	2.30	2.65	2.71	3.17	3.09	2.59	0.93	0.73	1.86
Total	**GW**	**4.67**	**4.75**	**4.64**	**4.87**	**5.48**	**5.60**	**5.85**	**5.68**	**5.51**	**4.92**	**5.12**	**4.86**	**5.17**
Total	**SW**	**20.52**	**20.77**	**20.19**	**20.63**	**23.09**	**24.94**	**25.09**	**25.50**	**24.81**	**22.15**	**19.74**	**20.16**	**22.31**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		17.29	14.77	18.45	18.47	11.83	10.75	11.06	12.34	10.82	10.46	12.66	20.74	14.14
Industrial/Mining		0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
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		**17.53**	**15.01**	**18.69**	**18.71**	**12.08**	**10.99**	**11.30**	**12.58**	**11.07**	**10.70**	**12.90**	**20.98**	**14.38**

MARSHALL — **2015 FINAL DATA**

Total SW Withdrawals	SW	20.52	20.77	20.19	20.63	23.09	24.94	25.09	25.50	24.81	22.15	19.74	20.16	22.31
Total GW Withdrawals	GW	4.67	4.75	4.64	4.87	5.48	5.60	5.85	5.68	5.51	4.92	5.12	4.86	5.17
Withdrawal Total		25.19	25.52	24.83	25.50	28.57	30.53	30.95	31.18	30.33	27.07	24.86	25.03	27.48
Total Returns		**17.53**	**15.01**	**18.69**	**18.71**	**12.08**	**10.99**	**11.30**	**12.58**	**11.07**	**10.70**	**12.90**	**20.98**	**14.38**
Net SW (MGD)	**SW**	**3.00**	**5.76**	**1.50**	**1.92**	**11.01**	**13.95**	**13.80**	**12.93**	**13.75**	**11.45**	**6.83**	**-0.82**	**7.92**


MARSHALL
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
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Jun
Jul
Aug
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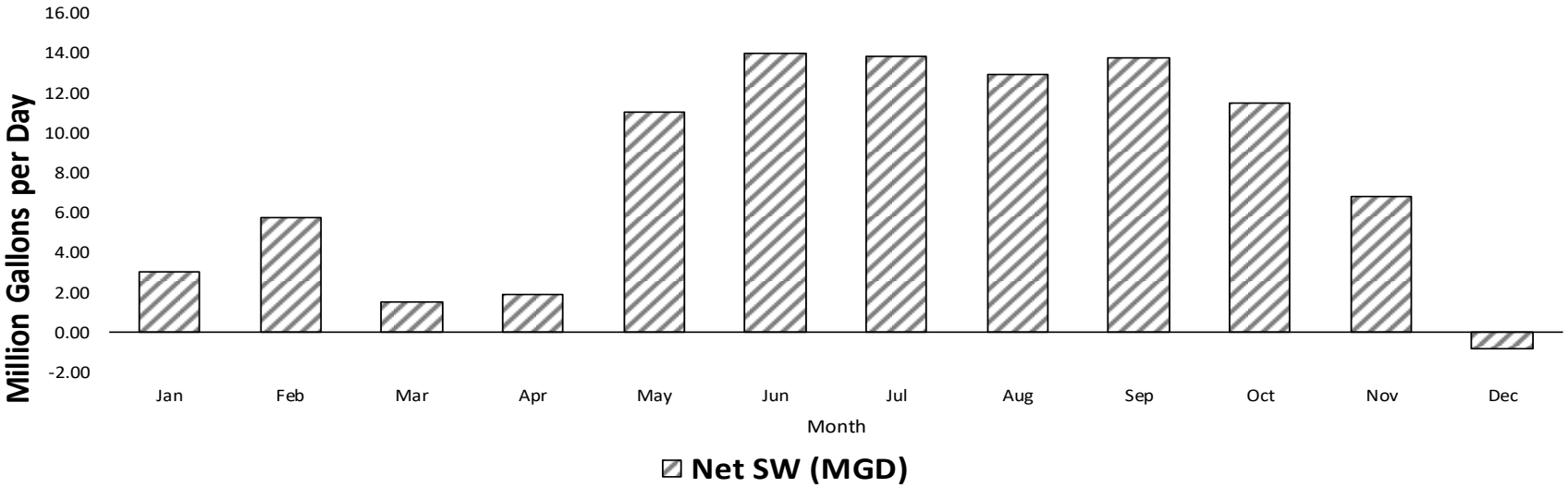
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns


16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
Million Gallons per Day
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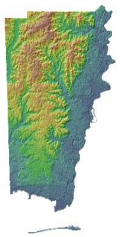
Oct
Nov
Dec
Month
Net SW (MGD)

MOBILE



Population	415,395
Pop served by public supply	377,074

2015 Demands

Withdrawals

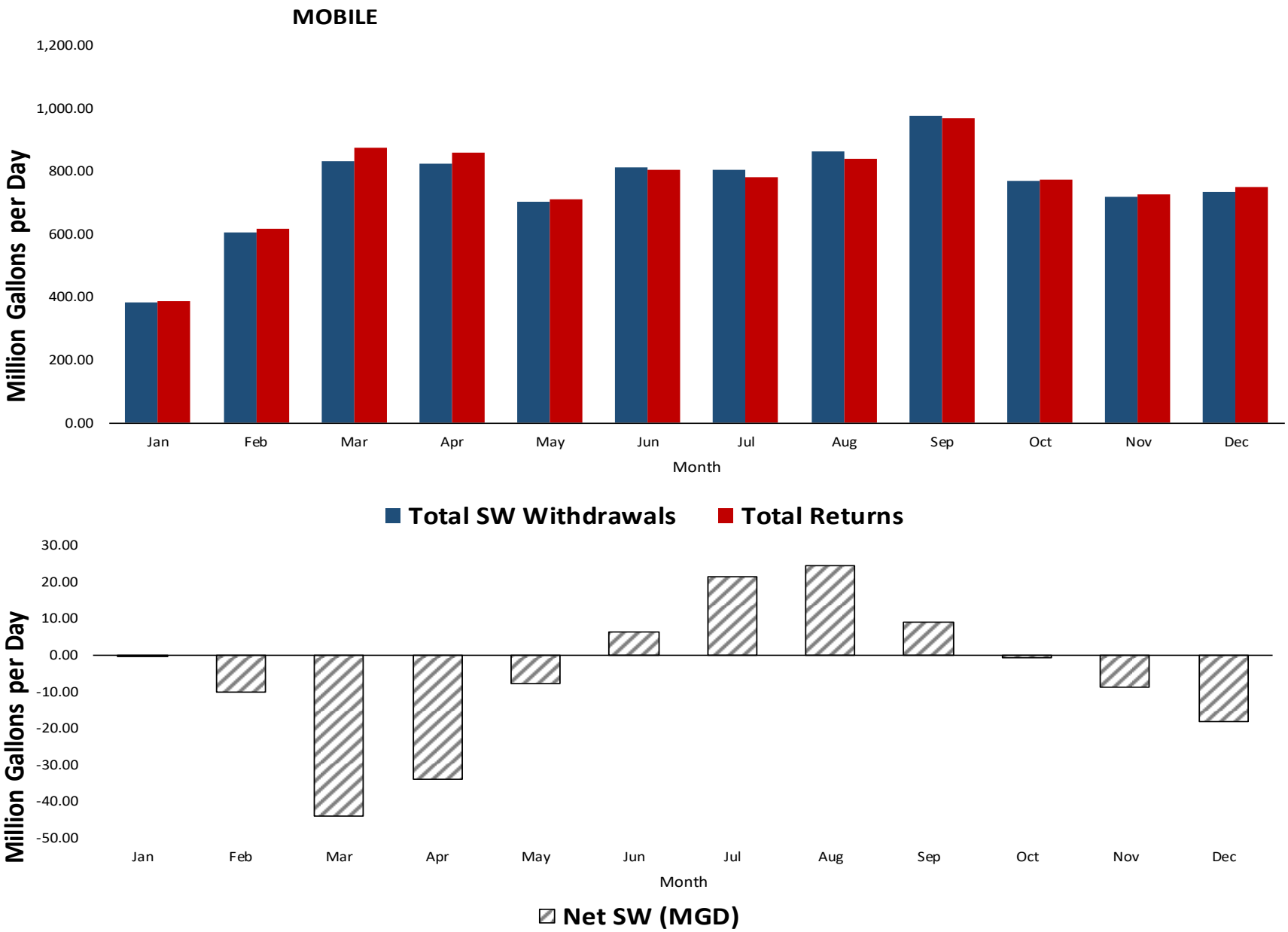
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	15.73	14.92	15.54	15.73	17.16	17.65	17.29	17.16	17.06	16.27	14.94	14.89	16.20
Public Supply	SW	51.06	47.87	49.68	51.98	55.62	58.12	49.29	56.91	54.49	53.33	52.82	50.32	52.64
Industrial/Mining	GW	6.61	6.54	6.92	6.71	6.44	6.90	6.59	6.89	6.63	6.55	6.86	6.89	6.71
Industrial/Mining	SW	3.22	3.05	2.99	3.09	3.52	3.73	4.11	4.60	4.50	3.93	2.99	3.55	3.61
Thermoelectric	SW	329.20	555.13	778.21	766.67	639.34	745.74	745.87	796.97	913.35	710.52	662.26	677.81	693.70
Agriculture	GW	4.04	5.17	5.91	7.04	9.57	12.55	13.03	13.08	11.63	10.60	6.96	5.38	8.77
Agriculture	SW	0.66	0.58	0.99	1.95	3.31	4.17	4.38	4.35	3.75	2.96	1.06	0.63	2.41
Total	**GW**	**26.37**	**26.63**	**28.37**	**29.48**	**33.17**	**37.10**	**36.90**	**37.12**	**35.31**	**33.42**	**28.76**	**27.15**	**31.68**
Total	**SW**	**384.14**	**606.63**	**831.87**	**823.69**	**701.79**	**811.76**	**803.65**	**862.83**	**976.09**	**770.74**	**719.13**	**732.31**	**752.37**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		43.39	38.12	49.91	59.86	55.19	47.72	30.70	35.49	33.48	39.53	38.15	52.91	43.70
Industrial/Mining		28.27	26.19	40.49	28.44	30.19	31.93	30.45	28.59	28.68	29.95	34.06	30.27	30.63
Thermoelectric		313.08	552.48	785.64	769.40	624.31	725.99	721.15	774.34	904.90	701.99	655.91	667.52	683.06
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		**384.74**	**616.79**	**876.03**	**857.70**	**709.69**	**805.65**	**782.31**	**838.42**	**967.05**	**771.47**	**728.12**	**750.69**	**757.39**

MOBILE — **2015 FINAL DATA**

Total SW Withdrawals	SW	384.14	606.63	831.87	823.69	701.79	811.76	803.65	862.83	976.09	770.74	719.13	732.31	752.37
Total GW Withdrawals	GW	26.37	26.63	28.37	29.48	33.17	37.10	36.90	37.12	35.31	33.42	28.76	27.15	31.68
Withdrawal Total		410.51	633.26	860.24	853.18	734.96	848.87	840.55	899.96	1,011.40	804.15	747.89	759.47	784.05
Total Returns		**384.74**	**616.79**	**876.03**	**857.70**	**709.69**	**805.65**	**782.31**	**838.42**	**967.05**	**771.47**	**728.12**	**750.69**	**757.39**
Net SW (MGD)	**SW**	**-0.60**	**-10.16**	**-44.16**	**-34.01**	**-7.90**	**6.12**	**21.34**	**24.41**	**9.03**	**-0.73**	**-8.98**	**-18.38**	**-5.33**


MOBILE
1,200.00
1,000.00
800.00
600.00
400.00
200.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
Million Gallons per Day
Jan
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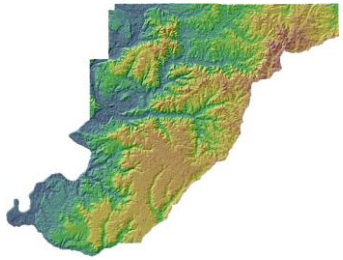
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

MONROE



Population	21,673
Pop served by public supply	15,775

2015 Demands

Withdrawals

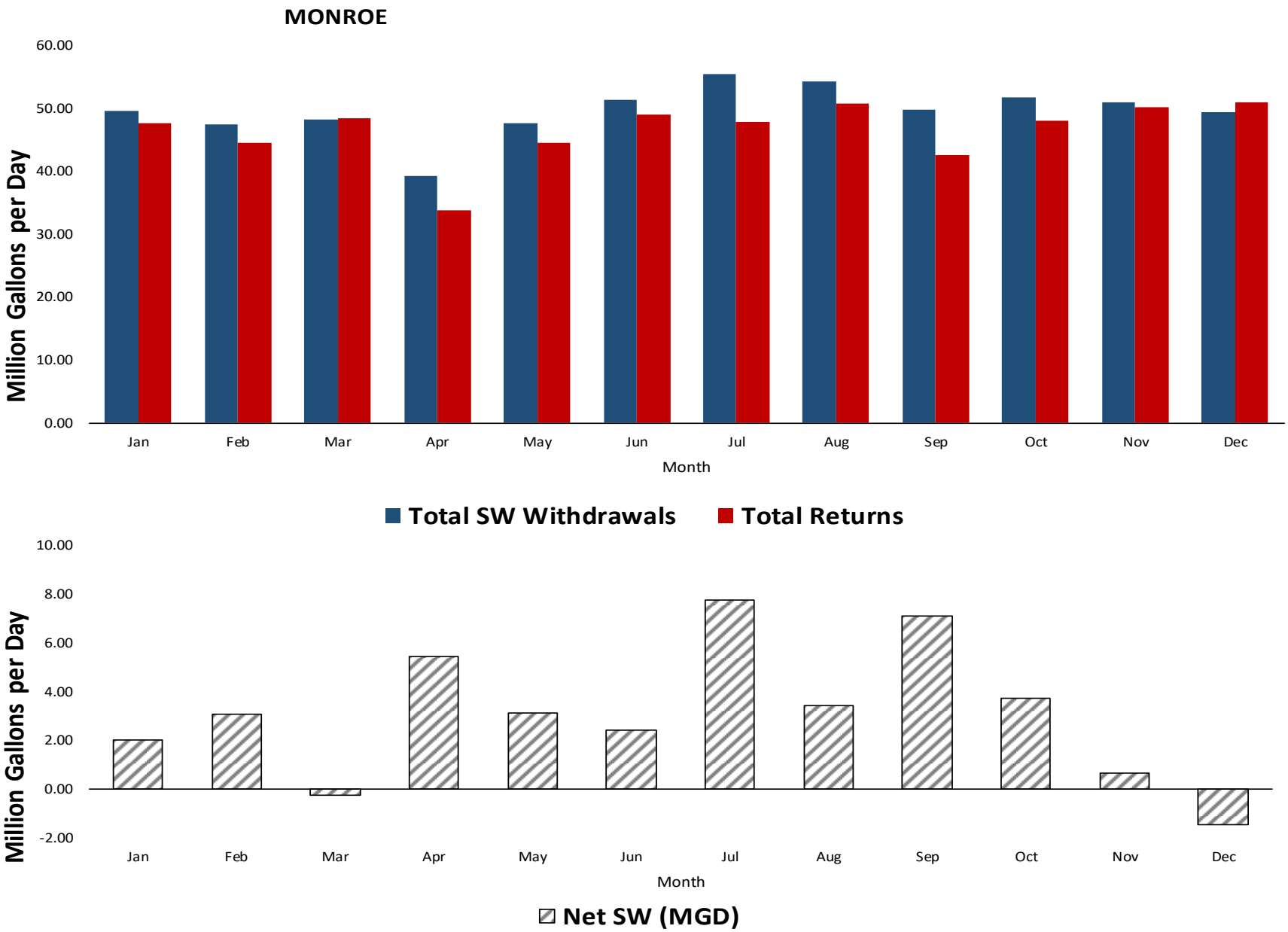
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.67	3.04	2.65	2.57	2.59	2.80	2.84	2.71	2.66	2.67	2.47	2.60	2.69
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.29	0.30	0.29	0.25	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Industrial/Mining	SW	49.41	47.31	48.02	39.00	47.31	50.91	55.11	53.72	49.21	51.31	50.70	49.31	49.31
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	0.18	0.18	0.30	0.40	0.75	1.24	1.30	0.96	0.44	0.34	0.19	0.17	0.54
Agriculture	SW	0.19	0.18	0.20	0.28	0.37	0.41	0.42	0.48	0.47	0.41	0.21	0.18	0.32
Total	**GW**	**3.14**	**3.52**	**3.24**	**3.22**	**3.61**	**4.30**	**4.41**	**3.94**	**3.37**	**3.28**	**2.93**	**3.04**	**3.50**
Total	**SW**	**49.61**	**47.49**	**48.22**	**39.28**	**47.68**	**51.32**	**55.53**	**54.20**	**49.69**	**51.73**	**50.91**	**49.49**	**49.63**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.67	0.63	0.76	0.90	0.85	1.01	0.77	0.78	0.75	0.70	0.66	1.11	0.80
Industrial/Mining		46.96	43.79	47.72	32.96	43.73	47.91	47.04	50.02	41.84	47.31	49.61	49.83	45.73
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		**47.63**	**44.42**	**48.48**	**33.86**	**44.58**	**48.93**	**47.81**	**50.80**	**42.59**	**48.00**	**50.27**	**50.94**	**46.53**

MONROE — **2015 FINAL DATA**

Total SW Withdrawals	SW	49.61	47.49	48.22	39.28	47.68	51.32	55.53	54.20	49.69	51.73	50.91	49.49	49.63
Total GW Withdrawals	GW	3.14	3.52	3.24	3.22	3.61	4.30	4.41	3.94	3.37	3.28	2.93	3.04	3.50
Withdrawal Total		52.75	51.01	51.46	42.50	51.30	55.62	59.94	58.14	53.06	55.00	53.84	52.53	53.13
Total Returns		**47.63**	**44.42**	**48.48**	**33.86**	**44.58**	**48.93**	**47.81**	**50.80**	**42.59**	**48.00**	**50.27**	**50.94**	**46.53**
Net SW (MGD)	**SW**	**1.98**	**3.07**	**-0.26**	**5.42**	**3.11**	**2.39**	**7.72**	**3.40**	**7.09**	**3.72**	**0.64**	**-1.45**	**3.07**


MONROE
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

MONTGOMERY

Population	226,519
Pop served by public supply	221,784

2015 Demands

Withdrawals

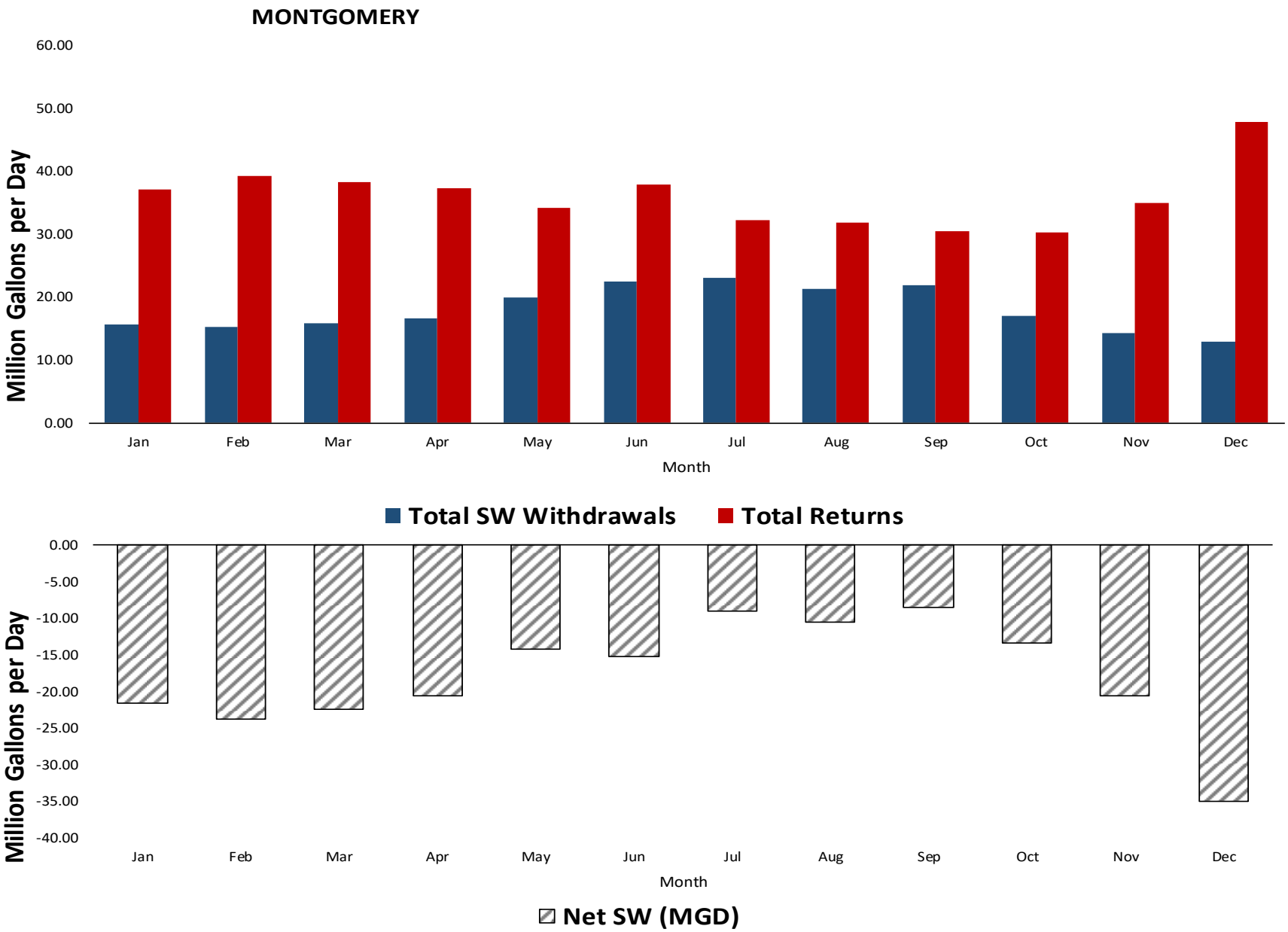
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	17.97	8.24	13.76	14.20	13.53	14.15	13.76	14.89	14.75	13.05	11.62	11.45	13.49
Public Supply	SW	14.00	13.90	14.00	14.00	16.00	17.40	17.80	16.10	17.60	13.40	12.60	11.40	14.85
Industrial/Mining	GW	2.66	2.30	2.34	2.53	2.68	2.56	2.75	3.05	2.89	2.70	2.08	2.39	2.58
Industrial/Mining	SW	0.38	0.38	0.38	0.38	0.39	0.42	0.44	0.49	0.46	0.39	0.38	0.38	0.41
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	2.65	3.27	3.54	4.05	5.04	6.13	6.33	6.72	6.49	6.05	4.23	3.40	4.83
Agriculture	SW	1.16	1.04	1.44	2.27	3.60	4.70	4.88	4.69	3.79	3.10	1.34	1.05	2.77
Total	**GW**	**23.28**	**13.81**	**19.64**	**20.78**	**21.25**	**22.84**	**22.84**	**24.66**	**24.13**	**21.80**	**17.94**	**17.24**	**20.90**
Total	**SW**	**15.54**	**15.32**	**15.82**	**16.65**	**20.00**	**22.52**	**23.12**	**21.28**	**21.85**	**16.90**	**14.32**	**12.83**	**18.02**

Returns

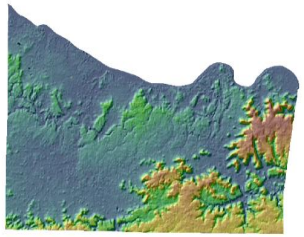
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		28.07	31.58	28.46	32.36	27.23	27.92	27.88	27.15	26.19	25.52	30.94	42.97	29.69
Industrial/Mining		9.07	7.61	9.76	4.91	6.96	9.91	4.31	4.70	4.21	4.79	4.05	4.88	6.26
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**37.14**	**39.19**	**38.22**	**37.27**	**34.19**	**37.83**	**32.18**	**31.85**	**30.39**	**30.30**	**34.99**	**47.85**	**35.95**

MONTGOMERY — **2015 FINAL DATA**

Total SW Withdrawals	SW	15.54	15.32	15.82	16.65	20.00	22.52	23.12	21.28	21.85	16.90	14.32	12.83	18.02
Total GW Withdrawals	GW	23.28	13.81	19.64	20.78	21.25	22.84	22.84	24.66	24.13	21.80	17.94	17.24	20.90
Withdrawal Total		38.82	29.13	35.47	37.44	41.25	45.36	45.96	45.93	45.98	38.70	32.25	30.08	38.93
Total Returns		**37.14**	**39.19**	**38.22**	**37.27**	**34.19**	**37.83**	**32.18**	**31.85**	**30.39**	**30.30**	**34.99**	**47.85**	**35.95**
Net SW (MGD)	**SW**	**-21.60**	**-23.87**	**-22.40**	**-20.61**	**-14.19**	**-15.31**	**-9.06**	**-10.57**	**-8.55**	**-13.41**	**-20.67**	**-35.02**	**-17.94**


MONTGOMERY
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

MORGAN



Population	119,565
Pop served by public supply	115,544

2015 Demands

Withdrawals

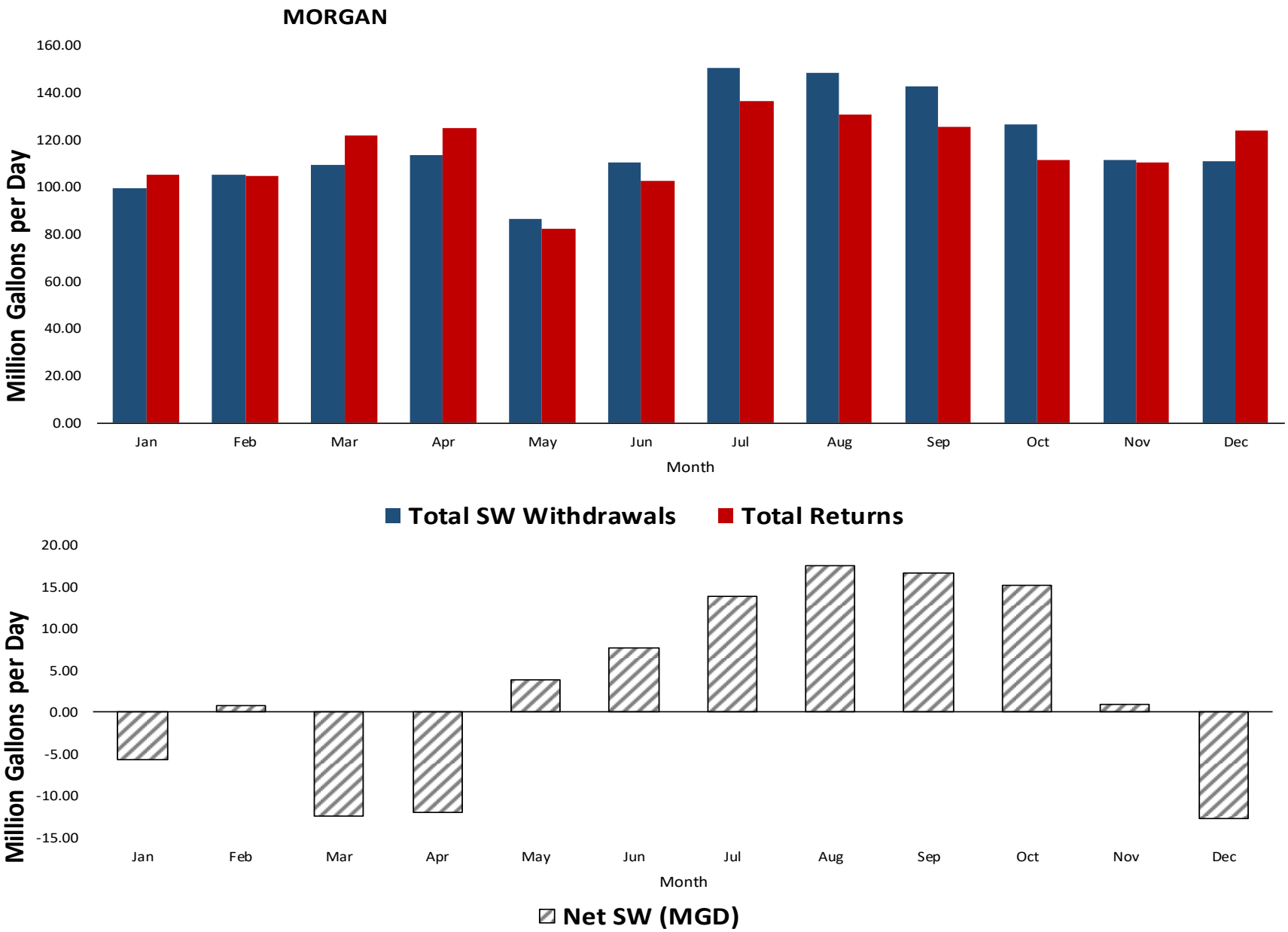
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Public Supply	SW	24.61	24.64	23.29	23.25	26.62	28.69	29.32	28.16	26.40	25.17	24.09	22.98	25.61
Industrial/Mining	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
Industrial/Mining	SW	72.17	76.03	83.07	87.19	54.31	76.15	114.96	115.50	110.88	98.35	84.49	85.84	88.33
Thermoelectric	SW	1.95	4.06	2.46	1.77	3.78	3.49	4.15	2.39	3.07	1.12	2.29	1.81	2.68
Agriculture	GW	0.41	0.43	0.44	0.46	0.49	0.53	0.54	0.56	0.55	0.53	0.46	0.43	0.49
Agriculture	SW	0.59	0.51	0.66	1.06	1.61	1.92	1.97	2.19	2.04	1.71	0.64	0.51	1.29
Total	**GW**	**0.73**	**0.75**	**0.77**	**0.78**	**0.82**	**0.86**	**0.86**	**0.88**	**0.87**	**0.85**	**0.78**	**0.75**	**0.81**
Total	**SW**	**99.32**	**105.24**	**109.48**	**113.27**	**86.32**	**110.25**	**150.40**	**148.24**	**142.39**	**126.35**	**111.51**	**111.14**	**117.91**

Returns

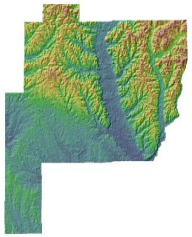
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		33.55	26.80	38.08	37.43	26.70	25.90	22.02	20.80	17.97	16.78	25.36	36.54	27.33
Industrial/Mining		70.02	76.12	82.35	86.53	54.28	75.32	113.14	108.42	106.33	92.95	83.74	85.83	86.25
Thermoelectric		1.48	1.53	1.53	1.23	1.43	1.41	1.43	1.45	1.43	1.42	1.44	1.46	1.44
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		**105.05**	**104.45**	**121.96**	**125.20**	**82.40**	**102.63**	**136.59**	**130.67**	**125.73**	**111.15**	**110.54**	**123.83**	**115.02**

MORGAN — **2015 FINAL DATA**

Total SW Withdrawals	SW	99.32	105.24	109.48	113.27	86.32	110.25	150.40	148.24	142.39	126.35	111.51	111.14	117.91
Total GW Withdrawals	GW	0.73	0.75	0.77	0.78	0.82	0.86	0.86	0.88	0.87	0.85	0.78	0.75	0.81
Withdrawal Total		100.04	105.99	110.24	114.05	87.13	111.11	151.26	149.12	143.26	127.20	112.30	111.89	118.72
Total Returns		**105.05**	**104.45**	**121.96**	**125.20**	**82.40**	**102.63**	**136.59**	**130.67**	**125.73**	**111.15**	**110.54**	**123.83**	**115.02**
Net SW (MGD)	**SW**	**-5.73**	**0.79**	**-12.48**	**-11.93**	**3.92**	**7.62**	**13.82**	**17.58**	**16.66**	**15.19**	**0.97**	**-12.69**	**2.81**


MORGAN
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

PERRY



Population	9,652
Pop served by public supply	5,432

2015 Demands

Withdrawals

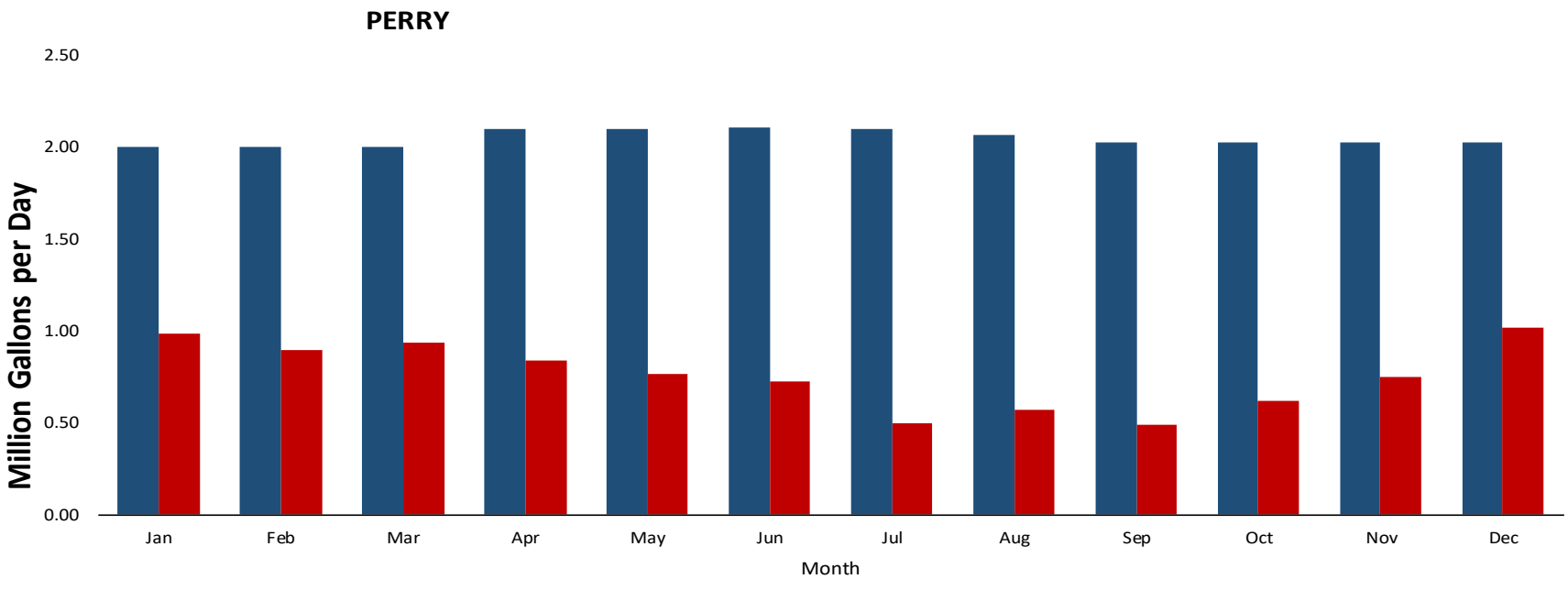
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.08	1.99	1.95	1.78	2.04	1.94	2.44	2.82	2.79	2.97	2.34	2.05	2.35
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2.55	2.54	2.70	2.83	3.30	3.94	4.02	3.57	2.89	2.75	2.55	2.52	3.02
Agriculture	SW	2.00	2.00	2.00	2.10	2.10	2.10	2.10	2.07	2.03	2.03	2.03	2.03	2.05
Total	**GW**	**5.63**	**4.52**	**4.65**	**4.61**	**5.34**	**5.88**	**6.46**	**6.39**	**5.67**	**5.72**	**4.89**	**4.57**	**5.37**
Total	**SW**	**2.00**	**2.00**	**2.00**	**2.10**	**2.10**	**2.10**	**2.10**	**2.07**	**2.03**	**2.03**	**2.03**	**2.03**	**2.05**

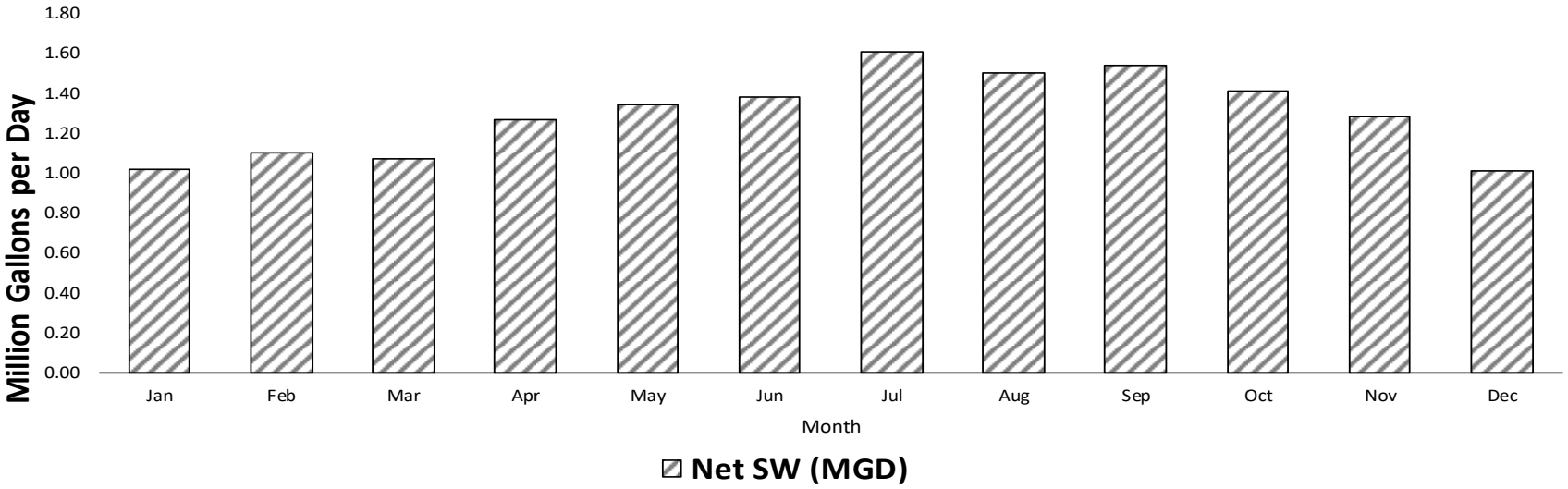
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.99	0.90	0.93	0.84	0.76	0.73	0.50	0.57	0.49	0.62	0.75	1.02	0.76
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		**0.99**	**0.90**	**0.93**	**0.84**	**0.76**	**0.73**	**0.50**	**0.57**	**0.49**	**0.62**	**0.75**	**1.02**	**0.76**

PERRY — **2015 FINAL DATA**

Total SW Withdrawals	SW	2.00	2.00	2.00	2.10	2.10	2.10	2.10	2.07	2.03	2.03	2.03	2.03	2.05
Total GW Withdrawals	GW	5.63	4.52	4.65	4.61	5.34	5.88	6.46	6.39	5.67	5.72	4.89	4.57	5.37
Withdrawal Total		7.63	6.53	6.66	6.72	7.44	7.98	8.56	8.46	7.70	7.74	6.92	6.59	7.42
Total Returns		**0.99**	**0.90**	**0.93**	**0.84**	**0.76**	**0.73**	**0.50**	**0.57**	**0.49**	**0.62**	**0.75**	**1.02**	**0.76**
Net SW (MGD)	**SW**	**1.02**	**1.10**	**1.07**	**1.26**	**1.34**	**1.38**	**1.61**	**1.50**	**1.54**	**1.41**	**1.28**	**1.01**	**1.29**


PERRY
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)

PICKENS

Population	20,864
Pop served by public supply	16,578

2015 Demands

Withdrawals

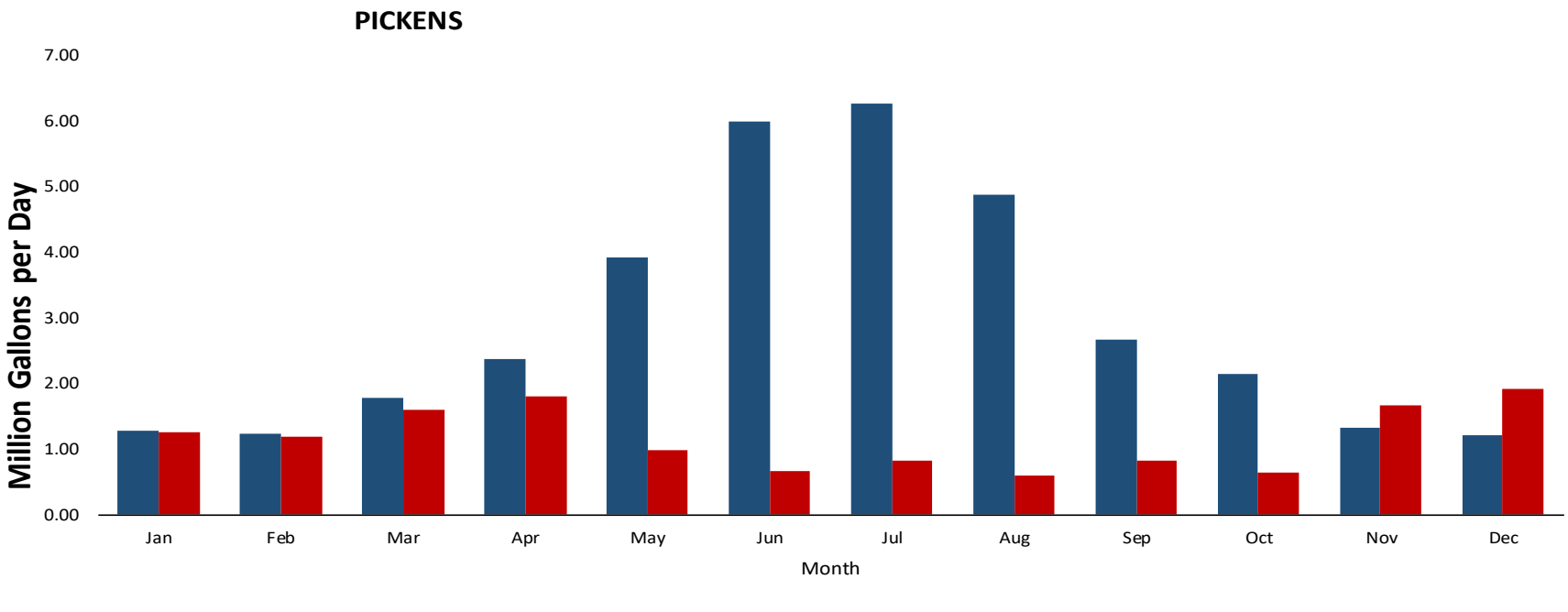
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.97	2.77	3.46	2.91	3.09	3.28	4.19	3.81	3.79	3.66	3.35	3.22	3.38
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Industrial/Mining	SW	0.00	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	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Agriculture	SW	1.27	1.22	1.77	2.37	3.92	5.99	6.26	4.87	2.66	2.15	1.32	1.20	2.93
Total	**GW**	**3.78**	**3.59**	**4.28**	**3.73**	**3.91**	**4.10**	**5.01**	**4.62**	**4.61**	**4.48**	**4.17**	**4.04**	**4.20**
Total	**SW**	**1.27**	**1.22**	**1.77**	**2.37**	**3.92**	**5.99**	**6.26**	**4.87**	**2.66**	**2.15**	**1.32**	**1.20**	**2.93**

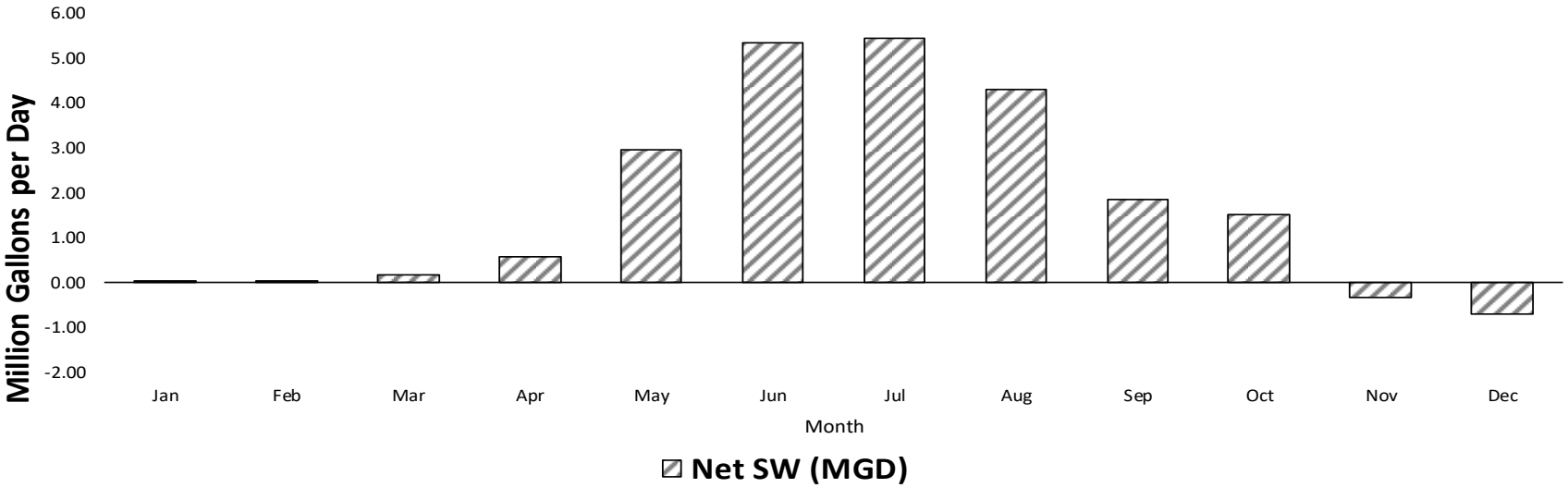
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.95	1.07	1.29	1.61	0.86	0.64	0.74	0.55	0.72	0.54	1.42	1.54	0.99
Industrial/Mining		0.30	0.12	0.32	0.20	0.12	0.03	0.09	0.04	0.10	0.09	0.25	0.37	0.17
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		**1.25**	**1.18**	**1.60**	**1.81**	**0.98**	**0.67**	**0.83**	**0.59**	**0.82**	**0.63**	**1.66**	**1.91**	**1.16**

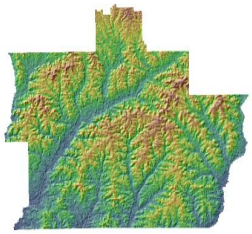
PICKENS — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.27	1.22	1.77	2.37	3.92	5.99	6.26	4.87	2.66	2.15	1.32	1.20	2.93
Total GW Withdrawals	GW	3.78	3.59	4.28	3.73	3.91	4.10	5.01	4.62	4.61	4.48	4.17	4.04	4.20
Withdrawal Total		5.05	4.81	6.05	6.10	7.82	10.09	11.27	9.49	7.27	6.62	5.49	5.24	7.13
Total Returns		**1.25**	**1.18**	**1.60**	**1.81**	**0.98**	**0.67**	**0.83**	**0.59**	**0.82**	**0.63**	**1.66**	**1.91**	**1.16**
Net SW (MGD)	**SW**	**0.02**	**0.04**	**0.17**	**0.56**	**2.94**	**5.33**	**5.43**	**4.28**	**1.84**	**1.51**	**-0.34**	**-0.71**	**1.76**


PICKENS
Million Gallons per Day
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
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)

PIKE



Population	33,046
Pop served by public supply	29,067

2015 Demands

Withdrawals

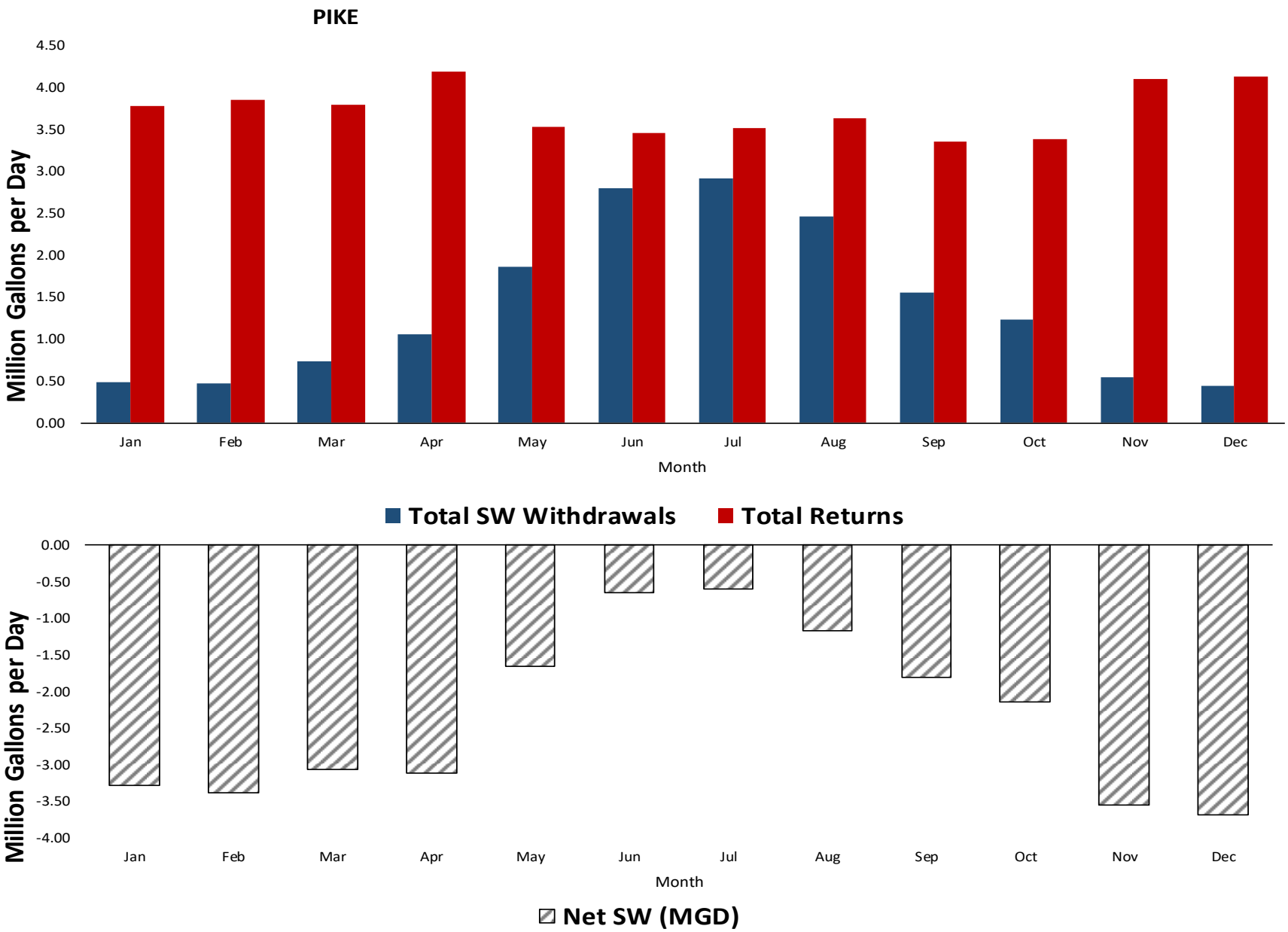
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.58	4.32	4.24	4.38	5.17	5.56	5.80	6.04	5.37	4.89	4.40	4.13	4.91
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.28	0.27	0.40	0.50	0.86	1.36	1.42	1.07	0.54	0.43	0.28	0.26	0.64
Agriculture	SW	0.49	0.46	0.73	1.06	1.87	2.80	2.92	2.47	1.55	1.23	0.55	0.45	1.39
Total	**GW**	**4.87**	**4.59**	**4.64**	**4.89**	**6.03**	**6.91**	**7.22**	**7.11**	**5.92**	**5.32**	**4.68**	**4.39**	**5.56**
Total	**SW**	**0.49**	**0.46**	**0.73**	**1.06**	**1.87**	**2.80**	**2.92**	**2.47**	**1.55**	**1.23**	**0.55**	**0.45**	**1.39**

Returns

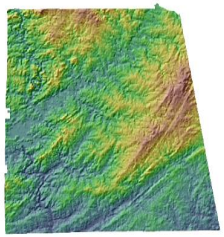
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.78	3.85	3.79	4.19	3.53	3.45	3.52	3.64	3.36	3.38	4.10	4.13	3.73
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**3.78**	**3.85**	**3.79**	**4.19**	**3.53**	**3.45**	**3.52**	**3.64**	**3.36**	**3.38**	**4.10**	**4.13**	**3.73**

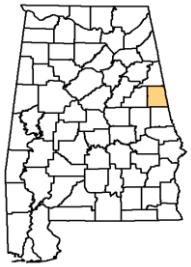
PIKE — **2015 FINAL DATA**

Total SW Withdrawals	SW	0.49	0.46	0.73	1.06	1.87	2.80	2.92	2.47	1.55	1.23	0.55	0.45	1.39
Total GW Withdrawals	GW	4.87	4.59	4.64	4.89	6.03	6.91	7.22	7.11	5.92	5.32	4.68	4.39	5.56
Withdrawal Total		5.36	5.06	5.37	5.95	7.90	9.71	10.14	9.58	7.47	6.56	5.23	4.84	6.94
Total Returns		**3.78**	**3.85**	**3.79**	**4.19**	**3.53**	**3.45**	**3.52**	**3.64**	**3.36**	**3.38**	**4.10**	**4.13**	**3.73**
Net SW (MGD)	**SW**	**-3.29**	**-3.39**	**-3.07**	**-3.12**	**-1.66**	**-0.65**	**-0.59**	**-1.17**	**-1.80**	**-2.15**	**-3.55**	**-3.68**	**-2.35**


PIKE
Million Gallons per Day
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
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00
-3.50
-4.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

RANDOLPH





Population	22,696
Pop served by public supply	11,912

2015 Demands

Withdrawals

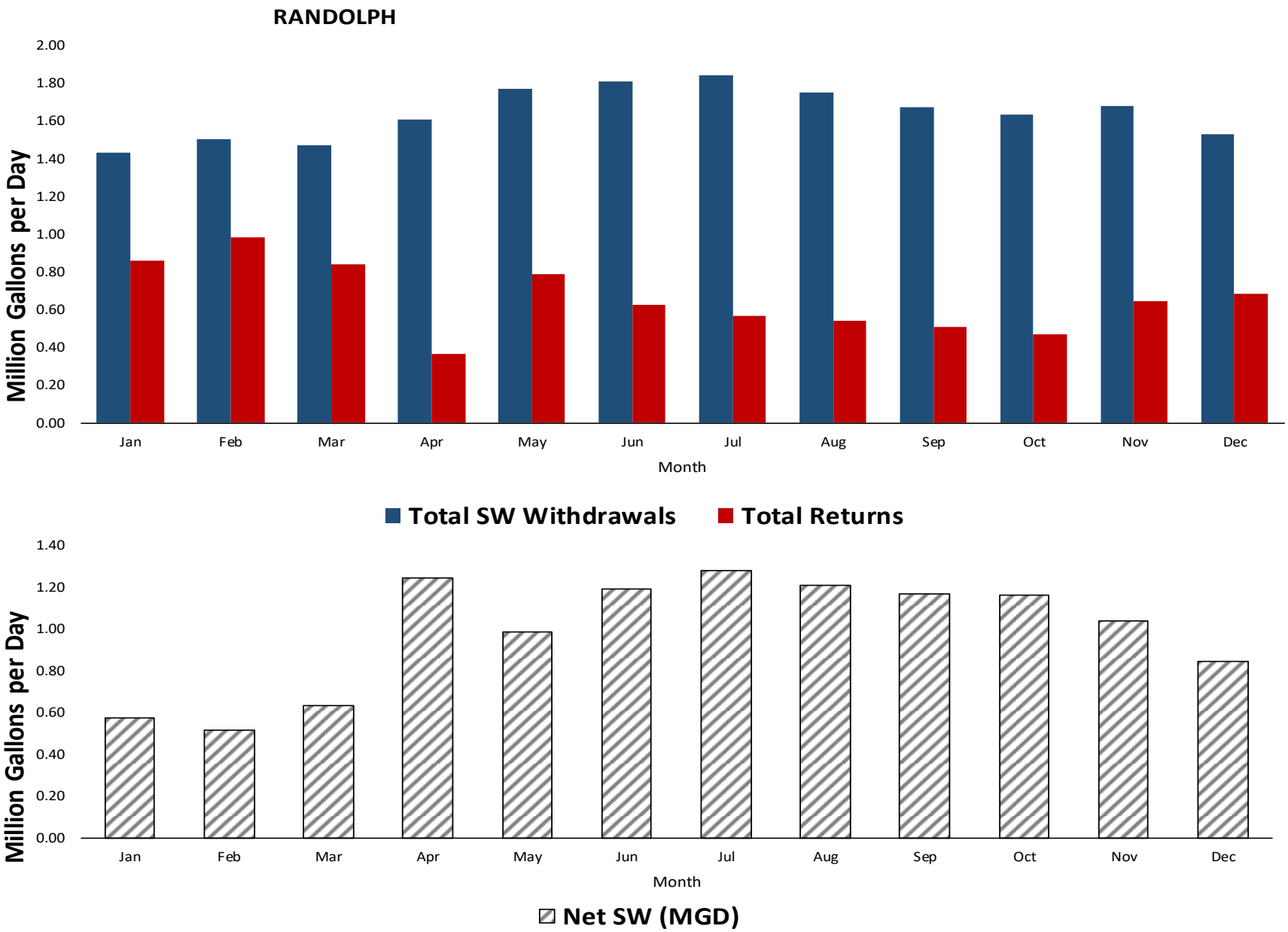
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Public Supply	SW	1.07	1.14	1.11	1.14	1.29	1.32	1.35	1.30	1.28	1.24	1.29	1.14	1.22
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.29	0.29	0.30	0.31	0.33	0.33	0.33	0.31	0.30	0.29	0.29	0.31
Agriculture	SW	0.36	0.36	0.37	0.47	0.48	0.50	0.50	0.45	0.40	0.39	0.39	0.39	0.42
Total	**GW**	**0.87**	**0.87**	**0.87**	**0.88**	**0.89**	**0.91**	**0.91**	**0.90**	**0.89**	**0.88**	**0.87**	**0.87**	**0.88**
Total	**SW**	**1.43**	**1.50**	**1.47**	**1.61**	**1.77**	**1.81**	**1.84**	**1.75**	**1.67**	**1.63**	**1.68**	**1.53**	**1.64**

Returns

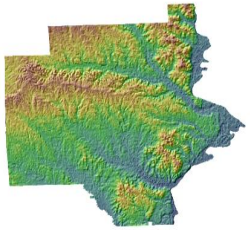
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.86	0.99	0.84	0.37	0.79	0.63	0.57	0.54	0.51	0.47	0.64	0.69	0.66
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**0.86**	**0.99**	**0.84**	**0.37**	**0.79**	**0.63**	**0.57**	**0.54**	**0.51**	**0.47**	**0.64**	**0.69**	**0.66**

RANDOLPH — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.43	1.50	1.47	1.61	1.77	1.81	1.84	1.75	1.67	1.63	1.68	1.53	1.64
Total GW Withdrawals	GW	0.87	0.87	0.87	0.88	0.89	0.91	0.91	0.90	0.89	0.88	0.87	0.87	0.88
Withdrawal Total		2.30	2.37	2.34	2.49	2.66	2.72	2.76	2.65	2.56	2.51	2.55	2.40	2.53
Total Returns		**0.86**	**0.99**	**0.84**	**0.37**	**0.79**	**0.63**	**0.57**	**0.54**	**0.51**	**0.47**	**0.64**	**0.69**	**0.66**
Net SW (MGD)	**SW**	**0.57**	**0.52**	**0.63**	**1.24**	**0.98**	**1.19**	**1.28**	**1.21**	**1.17**	**1.16**	**1.03**	**0.84**	**0.99**


RANDOLPH
Million Gallons per Day
2.00
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
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

RUSSELL



Population	59,660
Pop served by public supply	55,434

2015 Demands

Withdrawals

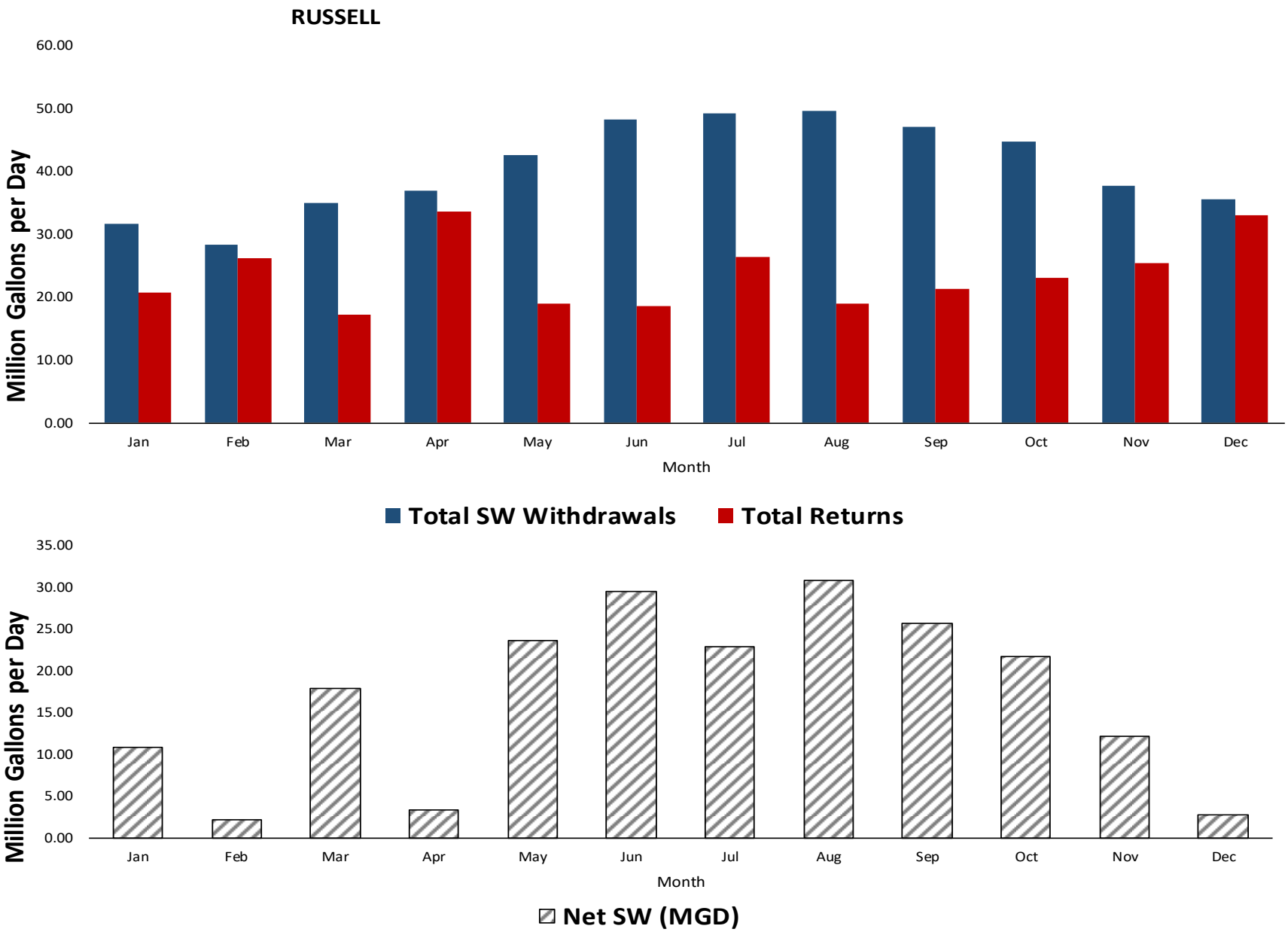
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.75	1.84	1.74	1.73	1.84	1.98	1.97	1.86	1.89	1.69	1.67	1.70	1.89
Public Supply	SW	6.32	6.11	6.13	6.24	7.47	7.60	8.21	7.85	7.49	6.84	6.09	6.03	6.87
Industrial/Mining	GW	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
Industrial/Mining	SW	24.81	19.10	24.82	24.82	25.85	28.04	28.22	28.11	28.44	28.54	26.37	26.35	26.17
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	0.26	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	SW	0.44	3.14	4.07	5.81	9.23	12.49	12.74	13.63	11.05	9.26	5.13	3.19	7.54
Total	**GW**	**4.79**	**3.88**	**3.78**	**3.77**	**3.88**	**4.02**	**4.01**	**3.90**	**3.93**	**3.73**	**3.71**	**3.74**	**3.93**
Total	**SW**	**31.57**	**28.34**	**35.02**	**36.87**	**42.55**	**48.13**	**49.17**	**49.59**	**46.98**	**44.63**	**37.58**	**35.58**	**40.58**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.64	3.82	3.85	5.11	3.38	3.21	3.00	3.67	2.79	2.37	4.55	6.16	3.79
Industrial/Mining		17.12	22.37	13.38	28.40	15.63	15.40	23.27	15.17	18.50	20.63	20.86	26.77	19.79
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		**20.76**	**26.19**	**17.23**	**33.51**	**19.01**	**18.61**	**26.27**	**18.84**	**21.29**	**23.00**	**25.41**	**32.93**	**23.59**

RUSSELL — **2015 FINAL DATA**

Total SW Withdrawals	SW	31.57	28.34	35.02	36.87	42.55	48.13	49.17	49.59	46.98	44.63	37.58	35.58	40.58
Total GW Withdrawals	GW	4.79	3.88	3.78	3.77	3.88	4.02	4.01	3.90	3.93	3.73	3.71	3.74	3.93
Withdrawal Total		36.36	32.22	38.81	40.65	46.43	52.15	53.18	53.49	50.91	48.36	41.29	39.32	44.51
Total Returns		**20.76**	**26.19**	**17.23**	**33.51**	**19.01**	**18.61**	**26.27**	**18.84**	**21.29**	**23.00**	**25.41**	**32.93**	**23.59**
Net SW (MGD)	**SW**	**10.81**	**2.15**	**17.80**	**3.36**	**23.54**	**29.52**	**22.90**	**30.75**	**25.69**	**21.63**	**12.18**	**2.65**	**16.92**


RUSSELL
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

SHELBY

Population	208,713
Pop served by public supply	199,698

2015 Demands

Withdrawals

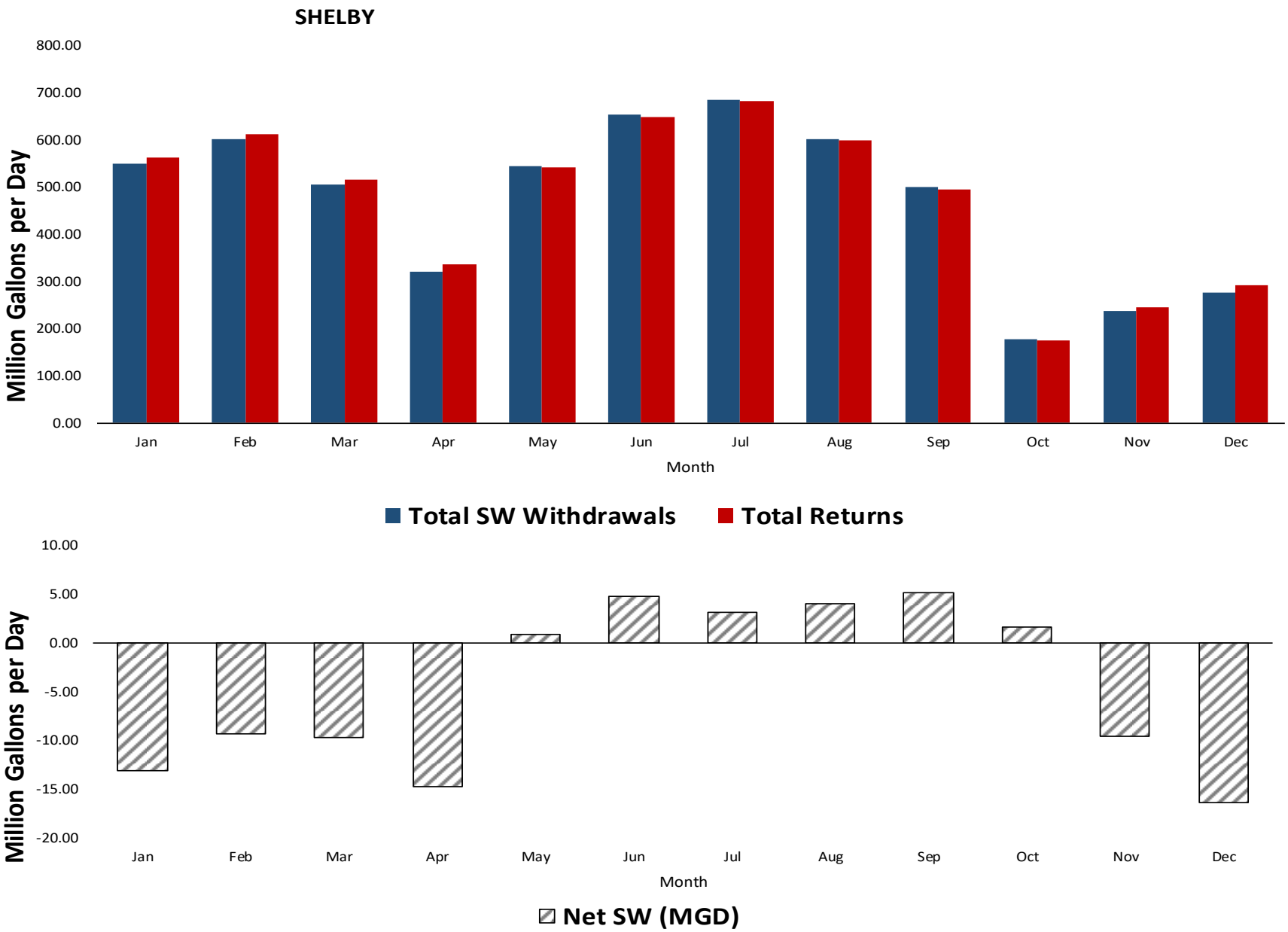
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	11.46	11.24	10.83	11.39	12.67	13.50	13.60	13.83	13.69	13.25	11.62	11.17	12.36
Public Supply	SW	1.79	1.47	1.87	1.84	3.38	3.42	2.57	2.87	3.16	2.03	1.59	1.52	2.30
Industrial/Mining	GW	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Industrial/Mining	SW	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Thermoelectric	SW	546.69	598.92	500.15	314.83	532.89	640.49	672.63	589.29	488.51	167.18	230.78	271.85	462.22
Agriculture	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
Agriculture	SW	0.52	1.96	2.59	4.12	6.51	8.40	8.56	9.57	8.26	6.89	3.28	2.03	5.24
Total	**GW**	**11.82**	**11.60**	**11.19**	**11.75**	**13.03**	**13.86**	**13.96**	**14.19**	**14.05**	**13.61**	**11.98**	**11.53**	**12.72**
Total	**SW**	**549.16**	**602.52**	**504.77**	**320.95**	**542.94**	**652.47**	**683.92**	**601.89**	**500.09**	**176.26**	**235.81**	**275.56**	**469.92**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		18.82	16.56	18.01	21.96	13.49	11.60	12.13	12.09	10.47	10.36	14.63	19.23	14.95
Industrial/Mining		0.25	0.25	0.26	0.25	0.23	0.24	0.23	0.25	0.21	1.67	3.94	4.02	0.98
Thermoelectric		543.21	595.10	496.29	313.49	528.42	635.84	668.45	585.60	484.27	162.65	226.88	268.74	459.08
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		**562.29**	**611.90**	**514.56**	**335.71**	**542.14**	**647.68**	**680.81**	**597.94**	**494.95**	**174.68**	**245.45**	**291.99**	**475.01**

SHELBY — **2015 FINAL DATA**

Total SW Withdrawals	SW	549.16	602.52	504.77	320.95	542.94	652.47	683.92	601.89	500.09	176.26	235.81	275.56	469.92
Total GW Withdrawals	GW	11.82	11.60	11.19	11.75	13.03	13.86	13.96	14.19	14.05	13.61	11.98	11.53	12.72
Withdrawal Total		560.98	614.11	515.96	332.70	555.97	666.33	697.88	616.08	514.13	189.87	247.79	287.09	482.64
Total Returns		**562.29**	**611.90**	**514.56**	**335.71**	**542.14**	**647.68**	**680.81**	**597.94**	**494.95**	**174.68**	**245.45**	**291.99**	**475.01**
Net SW (MGD)	**SW**	**-13.12**	**-9.39**	**-9.79**	**-14.76**	**0.80**	**4.79**	**3.11**	**3.95**	**5.14**	**1.57**	**-9.64**	**-16.43**	**-4.48**


SHELBY
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

ST CLAIR

Population	87,074
Pop served by public supply	80,226

2015 Demands

Withdrawals

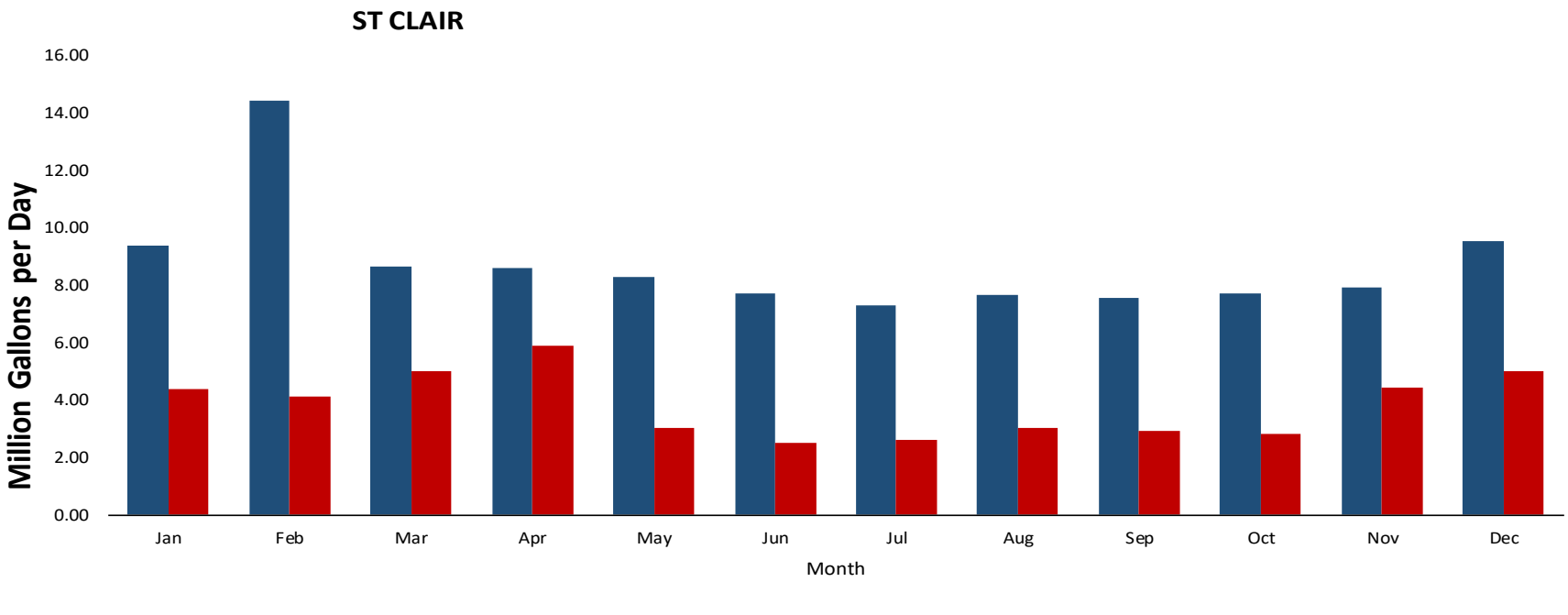
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	6.79	7.11	6.61	6.25	6.93	7.53	7.51	7.50	6.72	6.41	6.42	6.55	6.86
Public Supply	SW	2.68	2.63	2.58	2.43	2.59	2.53	2.50	2.67	2.78	2.73	2.43	2.44	2.58
Industrial/Mining	GW	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Industrial/Mining	SW	6.68	11.78	6.08	6.18	5.68	5.18	4.78	4.98	4.78	4.98	5.48	7.08	6.10
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	0.25	0.29	0.33	0.39	0.52	0.70	0.73	0.67	0.54	0.49	0.35	0.29	0.46
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	**GW**	**7.55**	**7.90**	**7.45**	**7.14**	**7.96**	**8.74**	**8.75**	**8.68**	**7.77**	**7.41**	**7.28**	**7.35**	**7.83**
Total	**SW**	**9.36**	**14.40**	**8.66**	**8.61**	**8.27**	**7.71**	**7.28**	**7.65**	**7.56**	**7.71**	**7.91**	**9.51**	**8.68**

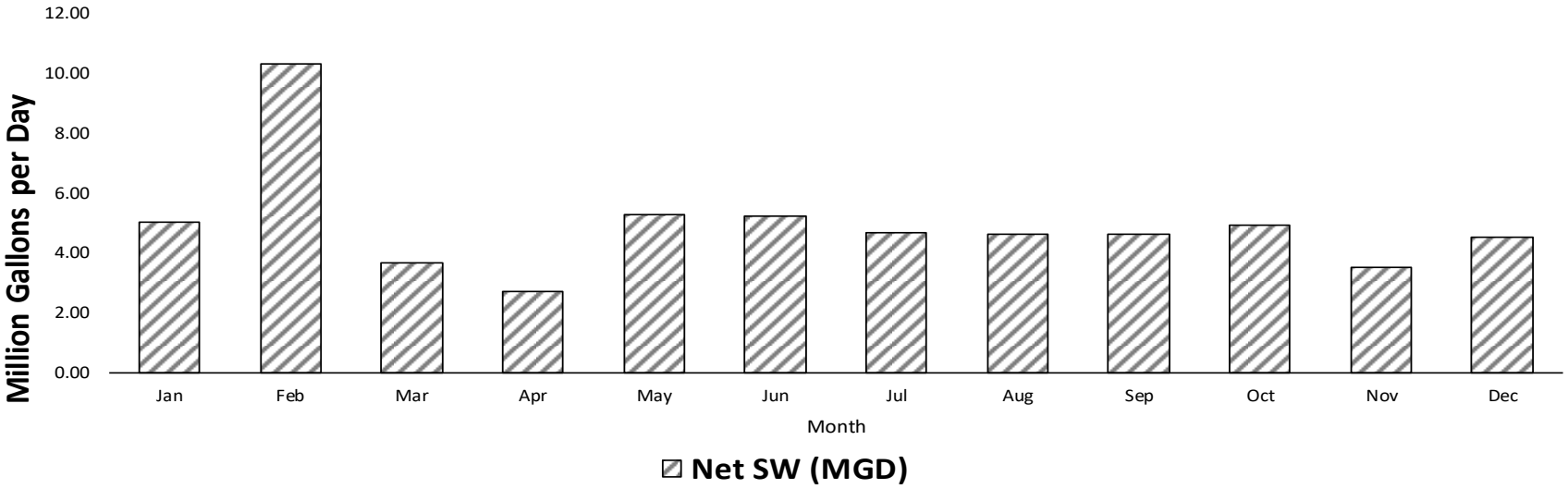
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.24	4.00	4.85	5.78	2.88	2.38	2.47	2.93	2.82	2.69	4.29	4.86	3.68
Industrial/Mining		0.11	0.12	0.13	0.13	0.13	0.11	0.13	0.11	0.12	0.10	0.15	0.15	0.12
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		**4.35**	**4.12**	**4.98**	**5.91**	**3.01**	**2.49**	**2.60**	**3.04**	**2.94**	**2.79**	**4.43**	**5.01**	**3.81**

ST CLAIR — **2015 FINAL DATA**

Total SW Withdrawals	SW	9.36	14.40	8.66	8.61	8.27	7.71	7.28	7.65	7.56	7.71	7.91	9.51	8.68
Total GW Withdrawals	GW	7.55	7.90	7.45	7.14	7.96	8.74	8.75	8.68	7.77	7.41	7.28	7.35	7.83
Withdrawal Total		16.91	22.31	16.10	15.75	16.23	16.45	16.03	16.33	15.32	15.11	15.19	16.87	16.51
Total Returns		**4.35**	**4.12**	**4.98**	**5.91**	**3.01**	**2.49**	**2.60**	**3.04**	**2.94**	**2.79**	**4.43**	**5.01**	**3.81**
Net SW (MGD)	**SW**	**5.01**	**10.28**	**3.68**	**2.70**	**5.26**	**5.22**	**4.68**	**4.61**	**4.62**	**4.92**	**3.48**	**4.51**	**4.91**


ST CLAIR
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
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)

SUMTER

Population	13,103
Pop served by public supply	11,919

2015 Demands

Withdrawals

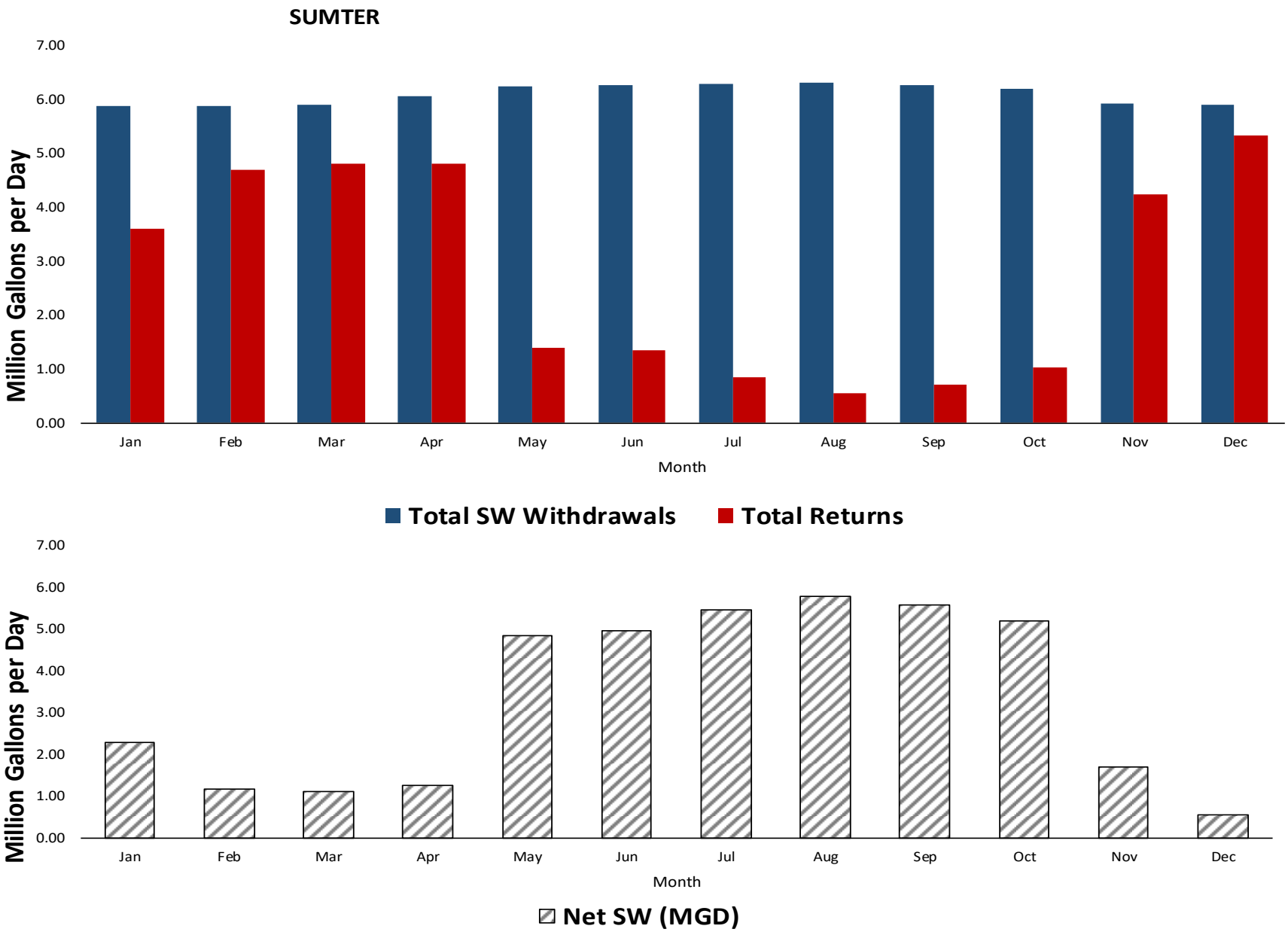
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.01	2.04	1.98	2.05	1.99	2.09	2.14	2.29	2.28	2.16	2.27	2.16	2.12
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Industrial/Mining	SW	5.03	5.03	5.03	5.03	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.03	5.06
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	0.64	0.63	0.79	0.91	1.34	1.94	2.01	1.60	0.96	0.83	0.65	0.62	1.08
Agriculture	SW	0.86	0.84	0.86	1.04	1.13	1.17	1.18	1.20	1.16	1.10	0.89	0.87	1.03
Total	**GW**	**3.72**	**3.73**	**3.82**	**4.02**	**4.39**	**5.09**	**5.22**	**4.95**	**4.30**	**4.05**	**3.98**	**3.84**	**4.26**
Total	**SW**	**5.88**	**5.87**	**5.89**	**6.07**	**6.23**	**6.27**	**6.28**	**6.30**	**6.26**	**6.20**	**5.92**	**5.89**	**6.09**

Returns

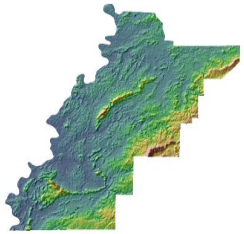
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.70	1.85	2.39	1.89	1.28	1.22	0.73	0.43	0.60	0.93	1.78	1.86	1.39
Industrial/Mining		1.90	2.85	2.41	2.92	0.11	0.11	0.11	0.11	0.11	0.10	2.46	3.48	1.39
Thermoelectric		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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		**3.60**	**4.70**	**4.80**	**4.81**	**1.40**	**1.34**	**0.84**	**0.54**	**0.71**	**1.03**	**4.24**	**5.34**	**2.78**

SUMTER — **2015 FINAL DATA**

Total SW Withdrawals	SW	5.88	5.87	5.89	6.07	6.23	6.27	6.28	6.30	6.26	6.20	5.92	5.89	6.09
Total GW Withdrawals	GW	3.72	3.73	3.82	4.02	4.39	5.09	5.22	4.95	4.30	4.05	3.98	3.84	4.26
Withdrawal Total		9.60	9.60	9.71	10.09	10.62	11.36	11.49	11.25	10.56	10.24	9.90	9.73	10.35
Total Returns		**3.60**	**4.70**	**4.80**	**4.81**	**1.40**	**1.34**	**0.84**	**0.54**	**0.71**	**1.03**	**4.24**	**5.34**	**2.78**
Net SW (MGD)	**SW**	**2.29**	**1.17**	**1.09**	**1.25**	**4.83**	**4.93**	**5.44**	**5.76**	**5.55**	**5.17**	**1.68**	**0.55**	**3.31**


SUMTER
Million Gallons per Day
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
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
Net SW (MGD)

TALLADEGA



Population	80,862
Pop served by public supply	60,455

2015 Demands

Withdrawals

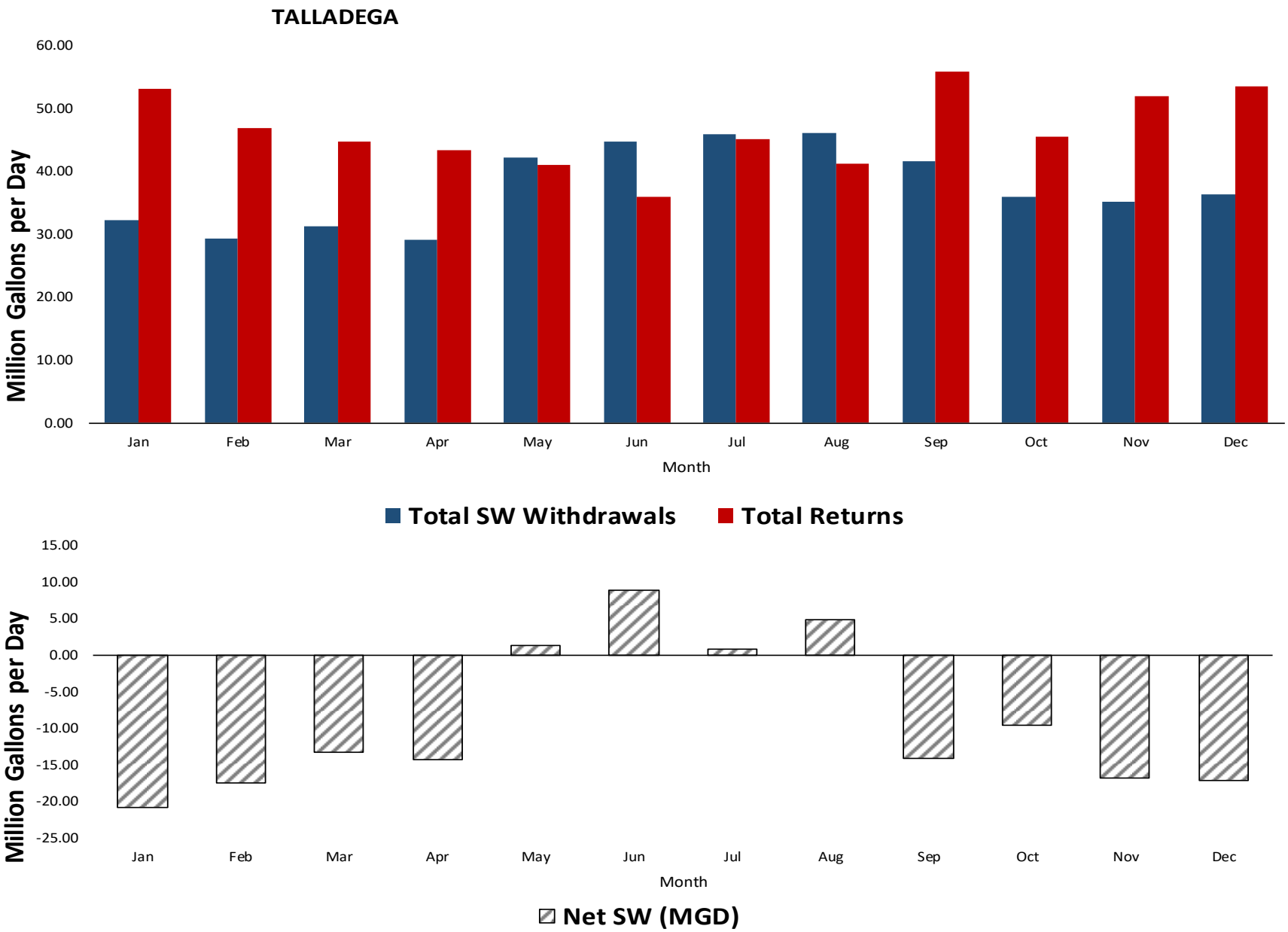
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	10.80	10.60	10.82	11.63	10.84	10.78	11.00	11.48	11.41	11.48	11.66	11.07	11.13
Public Supply	SW	6.12	5.75	5.30	5.72	6.48	8.01	8.19	7.80	6.91	6.68	6.34	6.01	6.61
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	25.43	22.42	23.96	20.18	29.98	28.06	28.72	30.03	29.06	24.80	26.83	29.10	26.59
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	0.18	0.16	0.35	0.50	1.03	1.76	1.85	1.34	0.56	0.40	0.18	0.15	0.71
Agriculture	SW	0.58	1.17	2.01	3.16	5.81	8.65	9.01	8.16	5.52	4.36	1.89	1.16	4.31
Total	**GW**	**10.98**	**10.76**	**11.17**	**12.13**	**11.87**	**12.54**	**12.85**	**12.82**	**11.98**	**11.89**	**11.84**	**11.21**	**11.84**
Total	**SW**	**32.12**	**29.34**	**31.26**	**29.05**	**42.27**	**44.73**	**45.92**	**45.99**	**41.49**	**35.84**	**35.05**	**36.26**	**37.51**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		18.20	13.35	16.18	18.49	11.39	10.53	9.04	8.35	7.58	7.31	13.92	16.25	12.55
Industrial/Mining		34.84	33.52	28.44	24.90	29.54	25.41	36.04	32.91	48.16	38.24	38.07	37.27	33.94
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		**53.05**	**46.87**	**44.62**	**43.38**	**40.93**	**35.94**	**45.08**	**41.26**	**55.74**	**45.55**	**51.98**	**53.52**	**46.49**

TALLADEGA — **2015 FINAL DATA**

Total SW Withdrawals	SW	32.12	29.34	31.26	29.05	42.27	44.73	45.92	45.99	41.49	35.84	35.05	36.26	37.51
Total GW Withdrawals	GW	10.98	10.76	11.17	12.13	11.87	12.54	12.85	12.82	11.98	11.89	11.84	11.21	11.84
Withdrawal Total		43.10	40.10	42.43	41.18	54.13	57.26	58.77	58.82	53.47	47.73	46.89	47.47	49.35
Total Returns		**53.05**	**46.87**	**44.62**	**43.38**	**40.93**	**35.94**	**45.08**	**41.26**	**55.74**	**45.55**	**51.98**	**53.52**	**46.49**
Net SW (MGD)	**SW**	**-20.92**	**-17.53**	**-13.36**	**-14.33**	**1.34**	**8.79**	**0.84**	**4.73**	**-14.25**	**-9.70**	**-16.93**	**-17.26**	**-9.05**


TALLADEGA
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

TALLAPOOSA

Population	40,844
Pop served by public supply	34,761

2015 Demands

Withdrawals

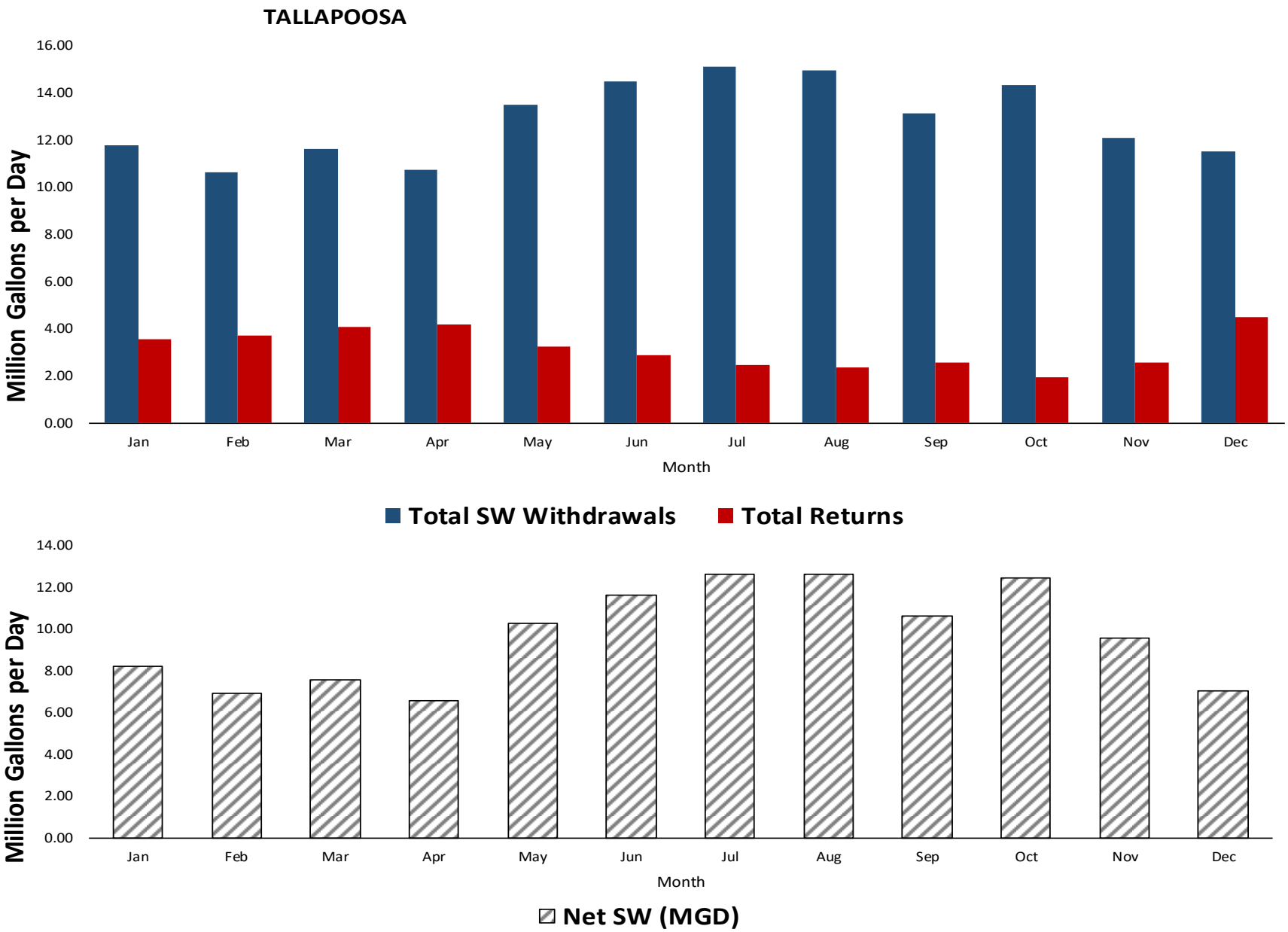
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Public Supply	SW	11.56	10.44	11.25	10.07	12.16	12.52	13.05	13.09	11.80	13.32	11.82	11.34	11.88
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	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	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06
Agriculture	SW	0.21	0.15	0.35	0.68	1.32	1.94	2.03	1.86	1.31	1.01	0.24	0.14	0.94
Total	**GW**	**0.48**	**0.48**	**0.48**	**0.48**	**0.49**	**0.50**	**0.50**	**0.50**	**0.50**	**0.50**	**0.49**	**0.48**	**0.49**
Total	**SW**	**11.76**	**10.60**	**11.60**	**10.75**	**13.49**	**14.47**	**15.08**	**14.95**	**13.11**	**14.33**	**12.06**	**11.49**	**12.83**

Returns

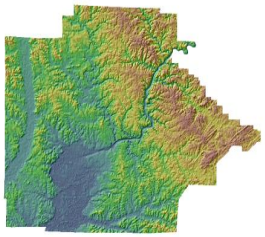
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.42	3.60	3.87	4.05	3.01	2.65	2.25	2.14	2.39	1.84	2.38	4.36	3.00
Industrial/Mining		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermoelectric		0.14	0.11	0.17	0.14	0.22	0.21	0.22	0.22	0.14	0.08	0.16	0.13	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		**3.56**	**3.71**	**4.04**	**4.19**	**3.23**	**2.86**	**2.47**	**2.36**	**2.53**	**1.93**	**2.54**	**4.48**	**3.16**

TALLAPOOSA — **2015 FINAL DATA**

Total SW Withdrawals	SW	11.76	10.60	11.60	10.75	13.49	14.47	15.08	14.95	13.11	14.33	12.06	11.49	12.83
Total GW Withdrawals	GW	0.48	0.48	0.48	0.48	0.49	0.50	0.50	0.50	0.50	0.50	0.49	0.48	0.49
Withdrawal Total		12.24	11.08	12.09	11.23	13.97	14.96	15.58	15.45	13.60	14.83	12.55	11.97	13.32
Total Returns		**3.56**	**3.71**	**4.04**	**4.19**	**3.23**	**2.86**	**2.47**	**2.36**	**2.53**	**1.93**	**2.54**	**4.48**	**3.16**
Net SW (MGD)	**SW**	**8.20**	**6.89**	**7.57**	**6.56**	**10.26**	**11.61**	**12.61**	**12.59**	**10.58**	**12.41**	**9.52**	**7.00**	**9.65**


TALLAPOOSA
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
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)

TUSCALOOSA



Population	203,976
Pop served by public supply	192,500

2015 Demands

Withdrawals

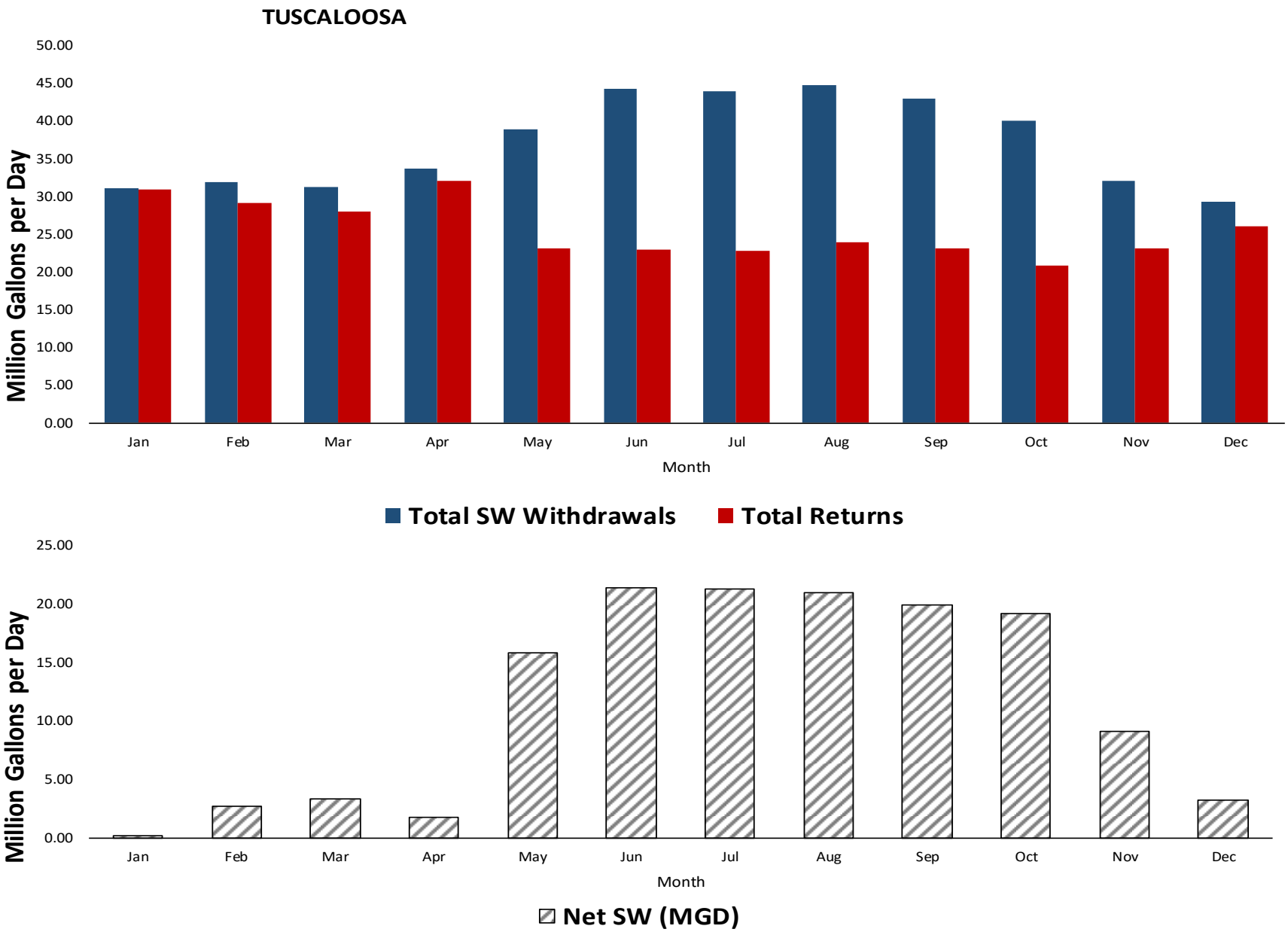
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.38	1.45	1.37	1.36	1.50	1.53	1.55	1.51	1.44	1.43	1.38	1.39	1.44
Public Supply	SW	28.52	28.09	27.00	28.28	31.37	35.23	34.52	34.58	34.66	32.86	27.71	26.06	30.75
Industrial/Mining	GW	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53
Industrial/Mining	SW	1.69	1.67	1.55	1.60	1.76	1.75	2.03	2.02	1.07	1.06	1.02	1.05	1.52
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	0.84	0.98	1.14	1.33	1.83	2.46	2.56	2.39	1.95	1.76	1.22	1.00	1.63
Agriculture	SW	0.78	2.12	2.65	3.84	5.80	7.29	7.46	8.21	7.21	6.06	3.36	2.19	4.76
Total	**GW**	**3.74**	**3.95**	**4.03**	**4.22**	**4.86**	**5.52**	**5.64**	**5.43**	**4.92**	**4.72**	**4.12**	**3.91**	**4.59**
Total	**SW**	**31.00**	**31.88**	**31.21**	**33.72**	**38.93**	**44.27**	**44.01**	**44.81**	**42.94**	**39.98**	**32.10**	**29.30**	**37.04**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		27.00	25.30	24.76	28.00	20.57	19.42	19.31	20.53	20.86	18.68	18.89	22.87	22.18
Industrial/Mining		3.84	3.86	3.18	4.00	2.57	3.50	3.49	3.38	2.17	2.16	4.14	3.22	3.29
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		**30.84**	**29.16**	**27.94**	**32.01**	**23.14**	**22.92**	**22.80**	**23.91**	**23.03**	**20.83**	**23.04**	**26.09**	**25.48**

TUSCALOOSA — **2015 FINAL DATA**

Total SW Withdrawals	SW	31.00	31.88	31.21	33.72	38.93	44.27	44.01	44.81	42.94	39.98	32.10	29.30	37.04
Total GW Withdrawals	GW	3.74	3.95	4.03	4.22	4.86	5.52	5.64	5.43	4.92	4.72	4.12	3.91	4.59
Withdrawal Total		34.73	35.83	35.24	37.94	43.79	49.79	49.64	50.24	47.85	44.70	36.22	33.22	41.63
Total Returns		**30.84**	**29.16**	**27.94**	**32.01**	**23.14**	**22.92**	**22.80**	**23.91**	**23.03**	**20.83**	**23.04**	**26.09**	**25.48**
Net SW (MGD)	**SW**	**0.16**	**2.72**	**3.27**	**1.72**	**15.79**	**21.35**	**21.20**	**20.89**	**19.91**	**19.15**	**9.06**	**3.22**	**11.54**


TUSCALOOSA
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
Total SW Withdrawals
Total Returns
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
Net SW (MGD)

WALKER

Population	65,294
Pop served by public supply	57,701

2015 Demands

Withdrawals

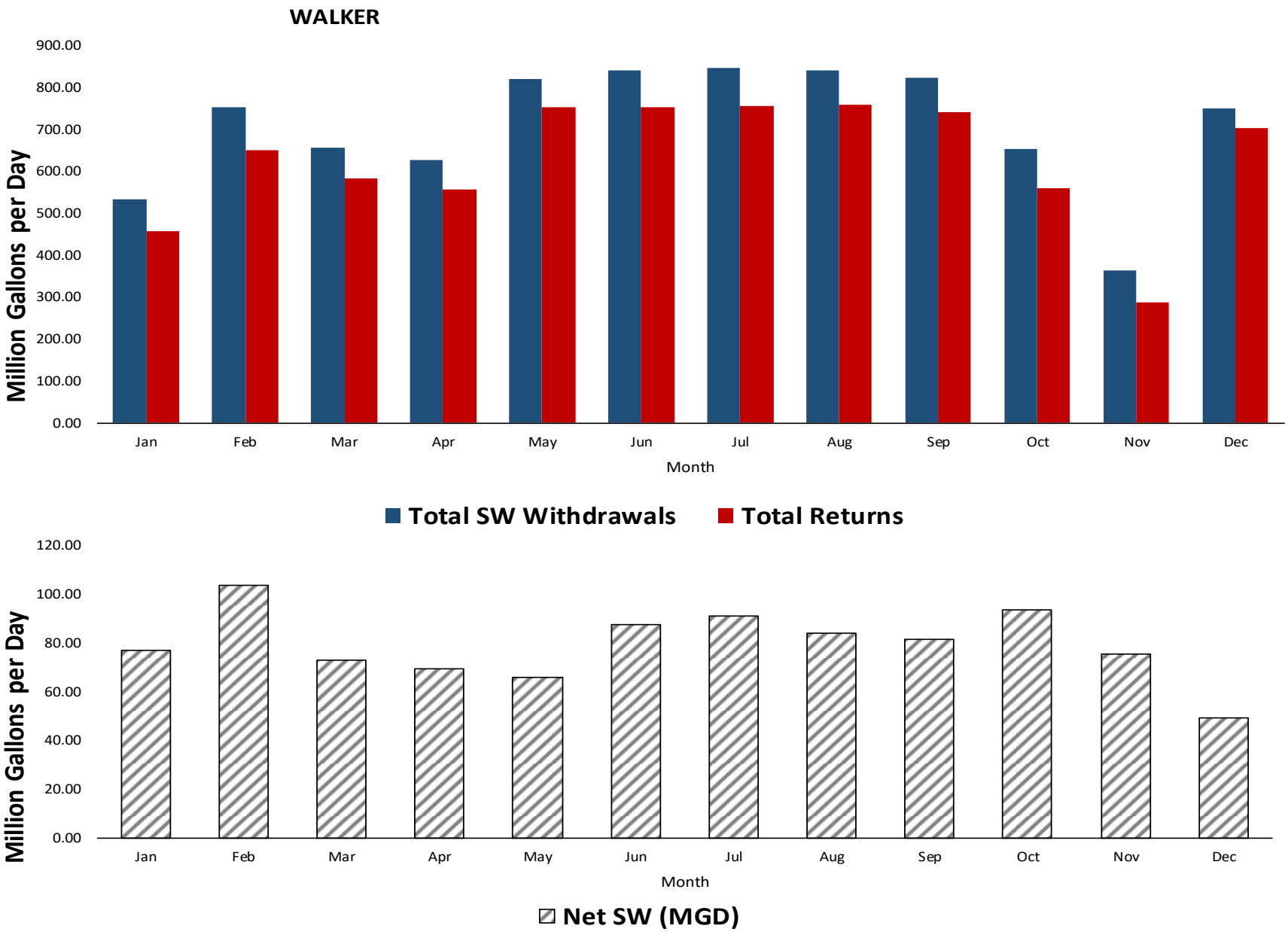
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.68	0.66	0.65	0.66	0.65	0.69	0.66	0.69	1.51	1.47	1.39	1.19	0.91
Public Supply	SW	54.03	53.23	51.39	40.32	37.96	47.51	51.12	47.90	40.43	35.18	31.43	30.56	43.38
Industrial/Mining	GW	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Industrial/Mining	SW	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Thermoelectric	SW	478.20	698.52	604.10	583.88	779.45	792.36	792.85	792.21	780.99	616.60	331.10	719.63	664.34
Agriculture	GW	0.10	0.10	0.11	0.11	0.13	0.16	0.16	0.15	0.14	0.13	0.11	0.10	0.13
Agriculture	SW	0.36	0.32	0.39	0.82	1.10	1.22	1.24	1.34	1.25	1.07	0.45	0.37	0.83
Total	**GW**	**0.91**	**0.90**	**0.89**	**0.90**	**0.92**	**0.97**	**0.94**	**0.97**	**1.78**	**1.73**	**1.63**	**1.42**	**1.16**
Total	**SW**	**533.00**	**752.48**	**656.29**	**625.43**	**818.91**	**841.50**	**845.62**	**841.86**	**823.08**	**653.25**	**363.39**	**750.97**	**708.96**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		7.71	7.05	9.43	8.31	5.34	3.14	4.10	4.01	3.59	3.01	5.67	6.84	5.68
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		448.37	642.01	573.93	547.73	747.83	750.77	750.77	753.84	738.26	556.62	282.32	695.03	623.96
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		**456.08**	**649.06**	**583.36**	**556.04**	**753.17**	**753.91**	**754.87**	**757.85**	**741.85**	**559.63**	**287.99**	**701.87**	**629.64**

WALKER — **2015 FINAL DATA**

Total SW Withdrawals	SW	533.00	752.48	656.29	625.43	818.91	841.50	845.62	841.86	823.08	653.25	363.39	750.97	708.96
Total GW Withdrawals	GW	0.91	0.90	0.89	0.90	0.92	0.97	0.94	0.97	1.78	1.73	1.63	1.42	1.16
Withdrawal Total		533.91	753.38	657.18	626.33	819.83	842.47	846.56	842.83	824.86	654.98	365.02	752.39	710.12
Total Returns		**456.08**	**649.06**	**583.36**	**556.04**	**753.17**	**753.91**	**754.87**	**757.85**	**741.85**	**559.63**	**287.99**	**701.87**	**629.64**
Net SW (MGD)	**SW**	**76.92**	**103.42**	**72.93**	**69.39**	**65.75**	**87.59**	**90.75**	**84.01**	**81.23**	**93.62**	**75.40**	**49.10**	**79.18**


WALKER
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
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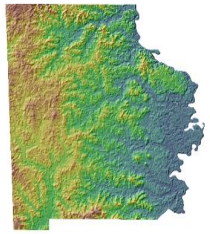
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

WASHINGTON



Population	16,804
Pop served by public supply	9,159

2015 Demands

Withdrawals

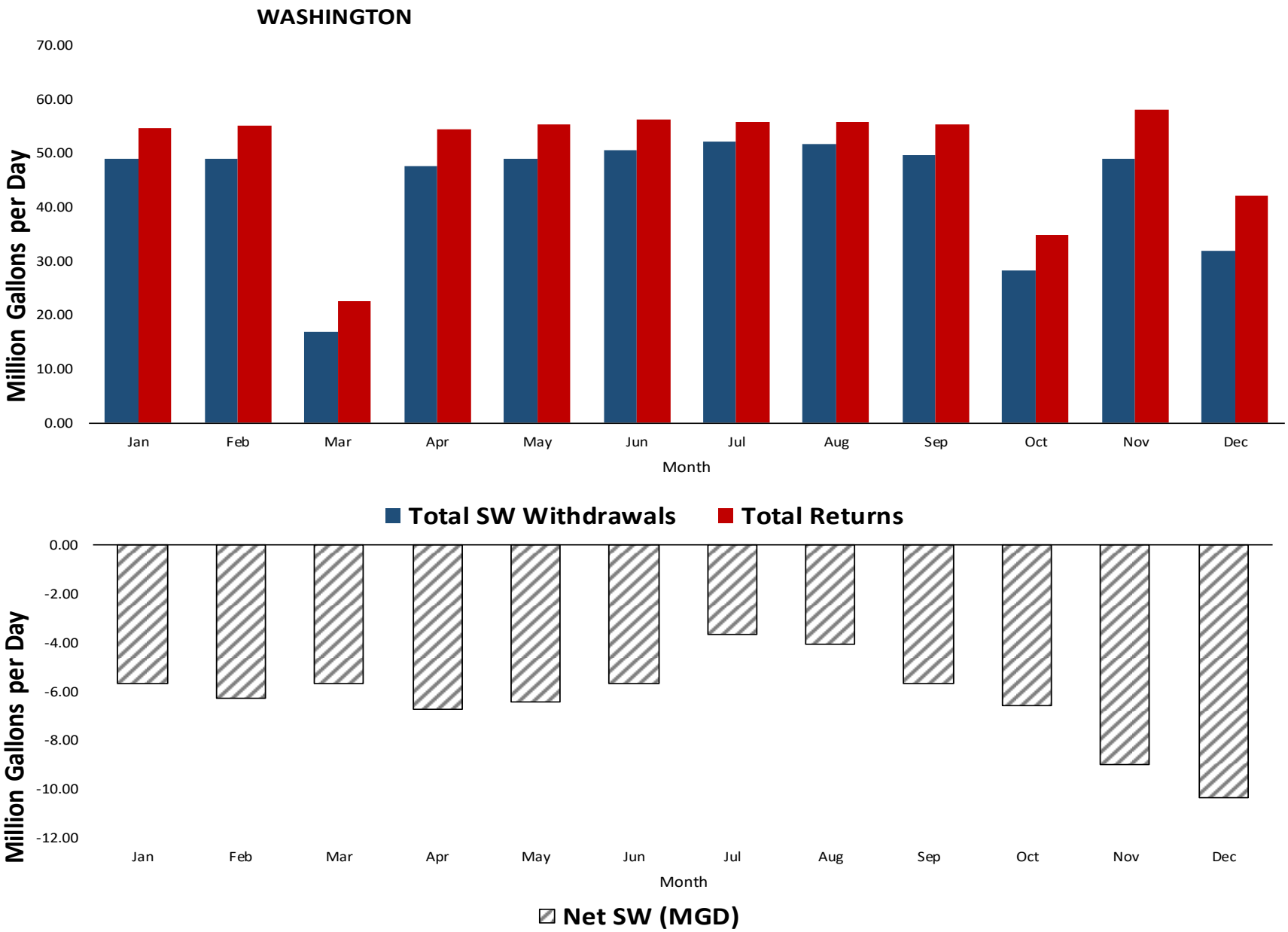
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.19	4.82	3.14	3.74	3.55	3.15	3.26	3.34	3.12	3.06	2.84	2.79	3.32
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	10.05	8.01	8.96	8.83	8.59	8.36	8.09	8.82	10.08	9.78	9.26	9.68	9.05
Industrial/Mining	SW	3.55	2.67	3.10	3.16	3.23	3.32	3.80	3.81	3.79	3.65	3.44	3.44	3.42
Thermoelectric	SW	45.30	46.10	13.70	44.30	45.40	47.00	48.00	47.40	45.50	24.20	45.40	28.30	39.94
Agriculture	GW	0.09	0.09	0.10	0.11	0.14	0.17	0.18	0.17	0.14	0.13	0.11	0.10	0.13
Agriculture	SW	0.12	0.11	0.13	0.21	0.30	0.34	0.35	0.41	0.40	0.34	0.14	0.11	0.25
Total	**GW**	**13.33**	**12.92**	**12.20**	**12.68**	**12.28**	**11.68**	**11.53**	**12.32**	**13.33**	**12.97**	**12.21**	**12.57**	**12.50**
Total	**SW**	**48.97**	**48.88**	**16.93**	**47.67**	**48.93**	**50.66**	**52.15**	**51.62**	**49.69**	**28.19**	**48.98**	**31.85**	**43.61**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.22	0.21	0.21	0.18	0.15	0.17	0.20	0.10	0.17	0.18	0.25	0.25	0.19
Industrial/Mining		9.60	10.03	9.76	10.12	10.78	11.39	11.10	11.19	10.73	11.16	12.62	13.79	11.02
Thermoelectric		44.85	44.91	12.63	44.11	44.43	44.79	44.49	44.42	44.46	23.43	45.11	28.17	38.81
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		**54.66**	**55.14**	**22.60**	**54.40**	**55.36**	**56.35**	**55.79**	**55.71**	**55.36**	**34.77**	**57.98**	**42.21**	**50.03**

WASHINGTON — **2015 FINAL DATA**

Total SW Withdrawals	SW	48.97	48.88	16.93	47.67	48.93	50.66	52.15	51.62	49.69	28.19	48.98	31.85	43.61
Total GW Withdrawals	GW	13.33	12.92	12.20	12.68	12.28	11.68	11.53	12.32	13.33	12.97	12.21	12.57	12.50
Withdrawal Total		62.30	61.80	29.13	60.35	61.21	62.35	63.67	63.94	63.03	41.17	61.19	44.42	56.11
Total Returns		**54.66**	**55.14**	**22.60**	**54.40**	**55.36**	**56.35**	**55.79**	**55.71**	**55.36**	**34.77**	**57.98**	**42.21**	**50.03**
Net SW (MGD)	**SW**	**-5.69**	**-6.27**	**-5.66**	**-6.73**	**-6.43**	**-5.69**	**-3.65**	**-4.09**	**-5.67**	**-6.58**	**-8.99**	**-10.36**	**-6.32**


WASHINGTON
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
Million Gallons per Day
Jan
Feb
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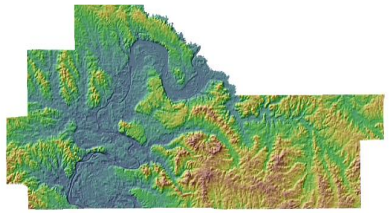
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

WILCOX



Population	11,059
Pop served by public supply	6,592

2015 Demands

Withdrawals

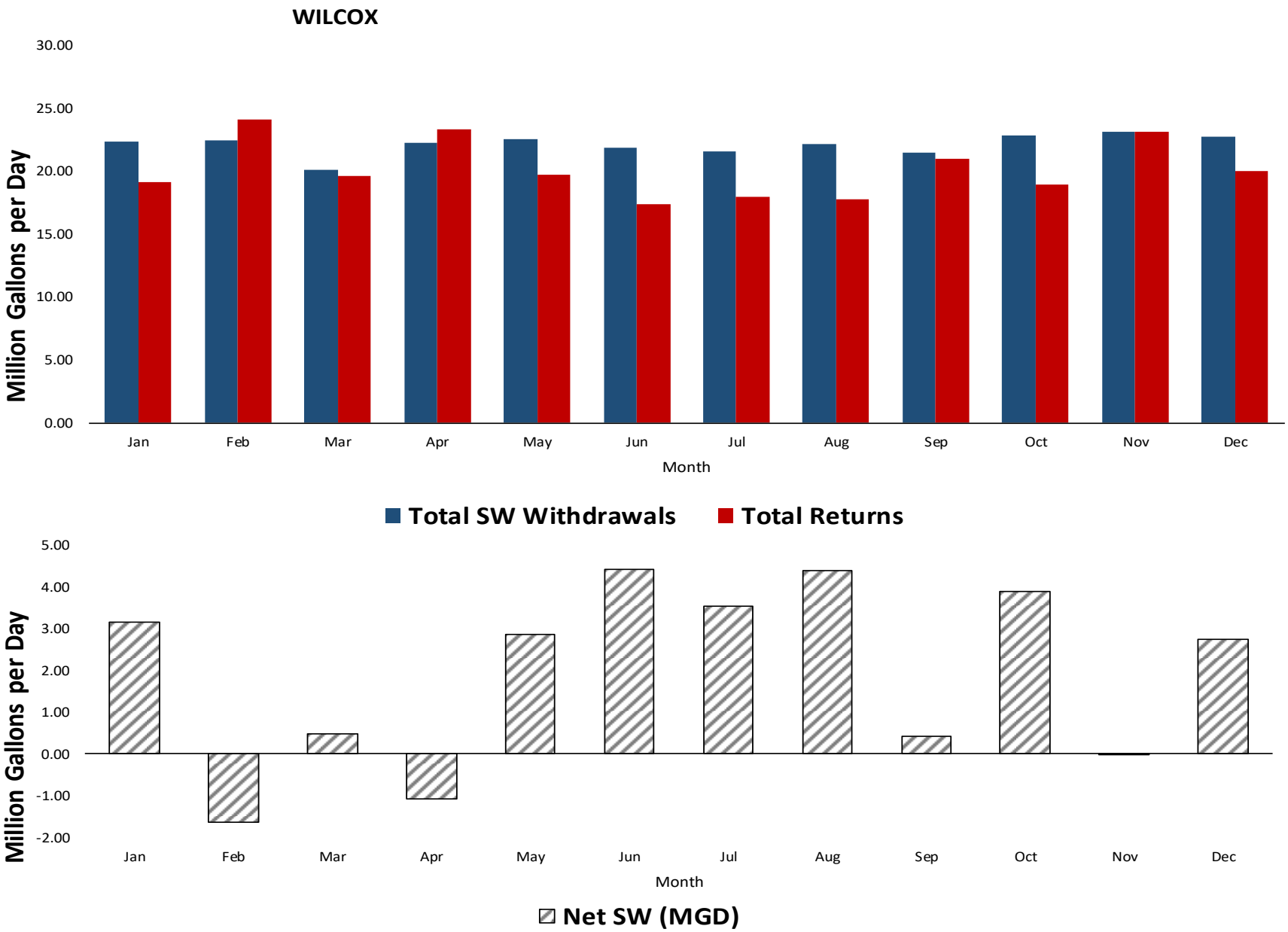
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.17	1.14	1.08	1.09	1.08	1.05	1.11	1.05	1.06	1.01	0.94	0.98	1.06
Public Supply	SW	2.13	1.98	1.98	2.00	1.94	2.02	2.23	1.99	1.90	1.72	1.67	2.00	1.96
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	20.04	20.24	17.85	19.81	20.03	19.16	18.64	19.43	18.90	20.57	21.06	20.41	19.67
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	0.09	0.10	0.15	0.23	0.24	0.19	0.11	0.09	0.07	0.06	0.12
Agriculture	SW	0.15	0.28	0.31	0.47	0.58	0.66	0.66	0.71	0.63	0.56	0.40	0.31	0.48
Total	**GW**	**1.24**	**1.21**	**1.17**	**1.19**	**1.23**	**1.28**	**1.34**	**1.23**	**1.17**	**1.10**	**1.01**	**1.04**	**1.18**
Total	**SW**	**22.32**	**22.50**	**20.13**	**22.28**	**22.54**	**21.84**	**21.53**	**22.13**	**21.43**	**22.85**	**23.13**	**22.71**	**22.11**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.36	0.14	0.54	0.64	0.38	0.30	0.30	0.33	0.30	0.25	0.55	0.76	0.40
Industrial/Mining		18.80	24.00	19.10	22.70	19.30	17.10	17.70	17.40	20.70	18.70	22.60	19.20	19.78
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		**19.16**	**24.14**	**19.64**	**23.34**	**19.68**	**17.40**	**18.00**	**17.73**	**21.00**	**18.95**	**23.15**	**19.96**	**20.18**

WILCOX — **2015 FINAL DATA**

Total SW Withdrawals	SW	22.32	22.50	20.13	22.28	22.54	21.84	21.53	22.13	21.43	22.85	23.13	22.71	22.11
Total GW Withdrawals	GW	1.24	1.21	1.17	1.19	1.23	1.28	1.34	1.23	1.17	1.10	1.01	1.04	1.18
Withdrawal Total		23.55	23.71	21.30	23.47	23.78	23.11	22.87	23.36	22.60	23.95	24.14	23.75	23.30
Total Returns		**19.16**	**24.14**	**19.64**	**23.34**	**19.68**	**17.40**	**18.00**	**17.73**	**21.00**	**18.95**	**23.15**	**19.96**	**20.18**
Net SW (MGD)	**SW**	**3.15**	**-1.64**	**0.49**	**-1.06**	**2.86**	**4.43**	**3.53**	**4.40**	**0.43**	**3.90**	**-0.02**	**2.75**	**1.93**


WILCOX
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
Million Gallons per Day
Jan
Feb
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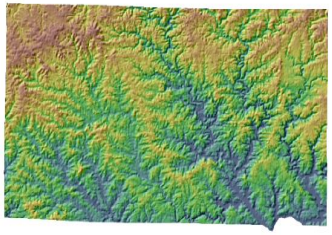
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

WINSTON



Population	23,877
Pop served by public supply	15,253

2015 Demands

Withdrawals

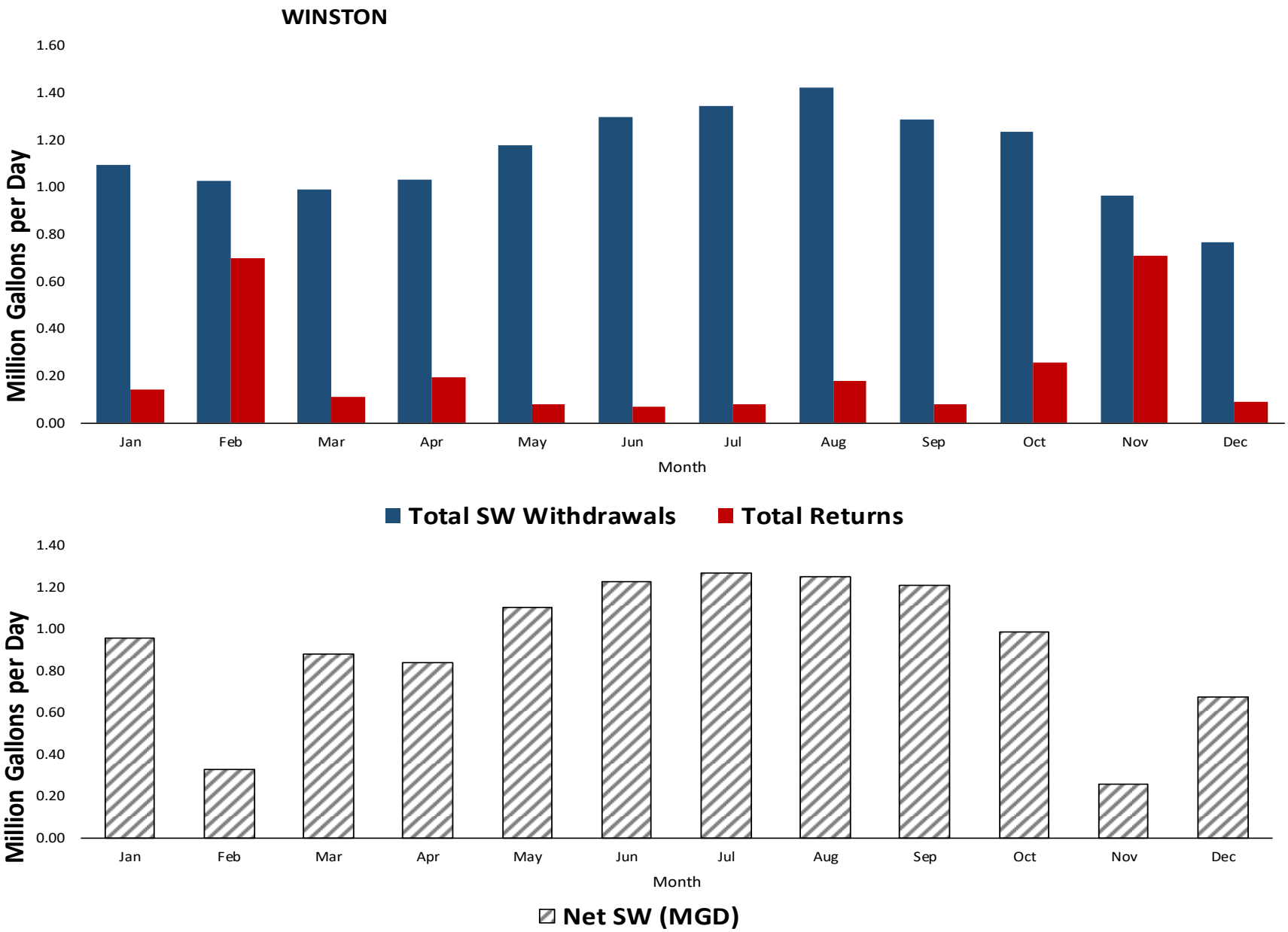
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Public Supply	SW	0.91	0.86	0.79	0.75	0.79	0.85	0.88	0.92	0.81	0.83	0.77	0.59	0.81
Industrial/Mining	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Industrial/Mining	SW	0.00	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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Agriculture	SW	0.19	0.17	0.20	0.28	0.39	0.45	0.46	0.50	0.48	0.41	0.20	0.17	0.33
Total	**GW**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**	**0.61**
Total	**SW**	**1.09**	**1.03**	**0.99**	**1.03**	**1.18**	**1.30**	**1.34**	**1.42**	**1.28**	**1.24**	**0.96**	**0.77**	**1.14**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.14	0.70	0.11	0.19	0.08	0.07	0.08	0.18	0.08	0.25	0.71	0.09	0.22
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**	**0.70**	**0.11**	**0.19**	**0.08**	**0.07**	**0.08**	**0.18**	**0.08**	**0.25**	**0.71**	**0.09**	**0.22**

WINSTON — **2015 FINAL DATA**

Total SW Withdrawals	SW	1.09	1.03	0.99	1.03	1.18	1.30	1.34	1.42	1.28	1.24	0.96	0.77	1.14
Total GW Withdrawals	GW	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Withdrawal Total		1.70	1.63	1.60	1.64	1.78	1.90	1.95	2.03	1.89	1.84	1.57	1.37	1.74
Total Returns		**0.14**	**0.70**	**0.11**	**0.19**	**0.08**	**0.07**	**0.08**	**0.18**	**0.08**	**0.25**	**0.71**	**0.09**	**0.22**
Net SW (MGD)	**SW**	**0.95**	**0.33**	**0.88**	**0.84**	**1.10**	**1.23**	**1.26**	**1.25**	**1.21**	**0.98**	**0.25**	**0.68**	**0.91**


WINSTON
Million Gallons per Day
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
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Appendix E

Monthly Water Withdrawals, Returns, and Net Demands by Subbasin

The following summaries of water-use information display current (2010) 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 the Area (in thousand acres), the estimated population for 2015, and the subregion associated with the subbasin.

For 2015, 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.

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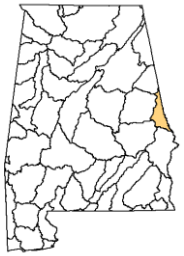
Subbasin number - Subbasin name

03130002-Middle Chattahoochee-Lake Harding



Area (Thousand Acres)	559
Estimated Population (2015)	57,592
Subregion:	Apalachicola

2015 Demands

Withdrawals

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Public Supply	SW	7.16	7.05	7.20	7.72	7.84	7.82	8.97	8.57	9.54	8.62	8.17	7.07	7.98
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	0.14	0.16	0.17	0.19	0.24	0.31	0.32	0.29	0.24	0.22	0.17	0.16	0.22
Agriculture	SW	0.18	0.30	0.37	0.53	0.80	1.02	1.04	1.12	0.97	0.82	0.42	0.30	0.66
Total	**GW**	**0.67**	**0.68**	**0.69**	**0.71**	**0.76**	**0.83**	**0.84**	**0.82**	**0.76**	**0.74**	**0.70**	**0.68**	**0.74**
Total	**SW**	**7.34**	**7.35**	**7.58**	**8.25**	**8.64**	**8.84**	**10.01**	**9.69**	**10.50**	**9.44**	**8.59**	**7.37**	**8.64**

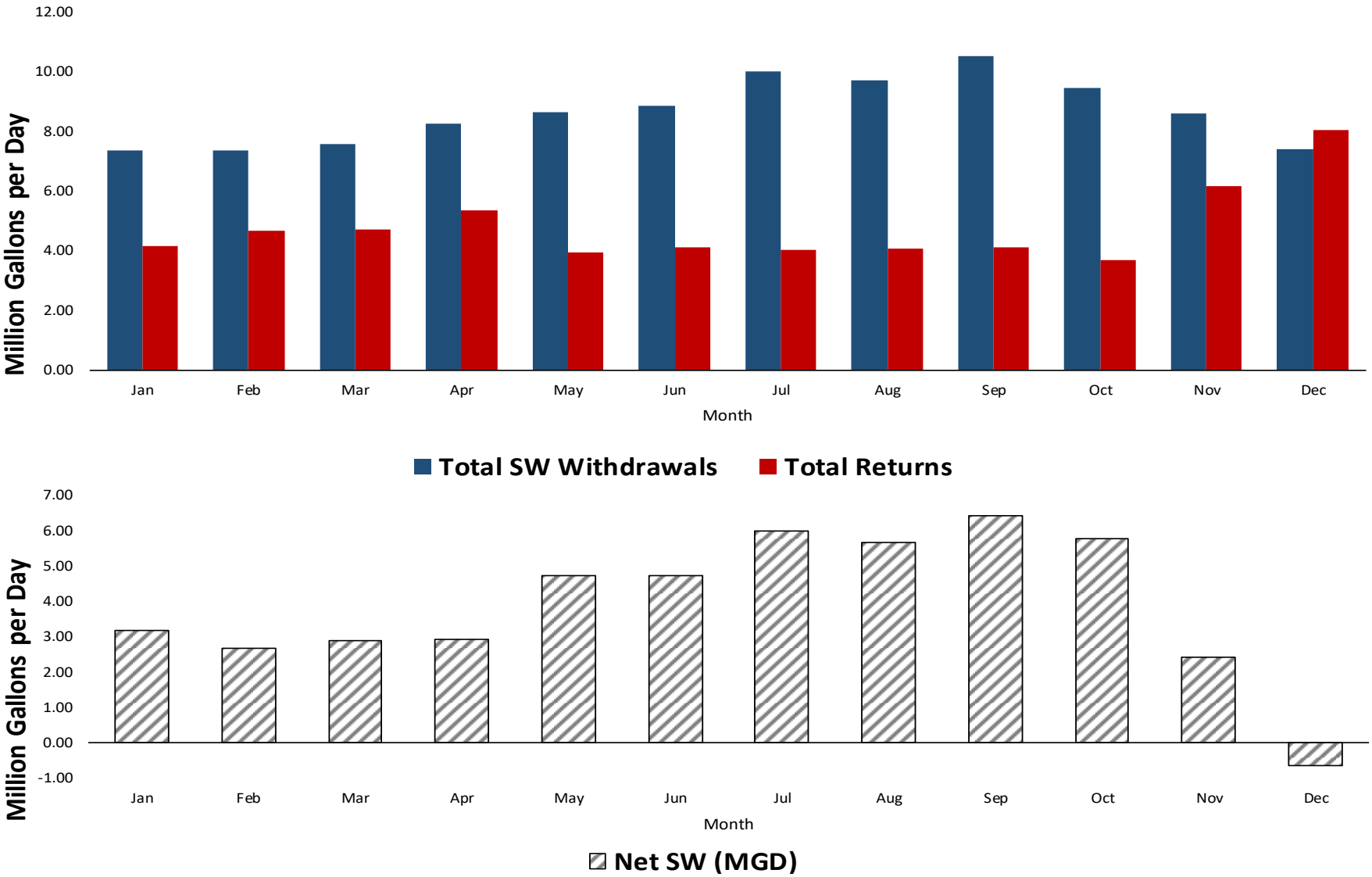
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.16	4.68	4.70	5.35	3.92	4.12	4.02	4.05	4.10	3.66	6.17	8.01	4.74
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		**4.16**	**4.68**	**4.70**	**5.35**	**3.92**	**4.12**	**4.02**	**4.05**	**4.10**	**3.66**	**6.17**	**8.01**	**4.74**

03130002-Middle Chattahoochee-Lake Harding

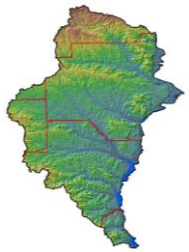
Total SW Withdrawals	SW	7.34	7.35	7.58	8.25	8.64	8.84	10.01	9.69	10.50	9.44	8.59	7.37	8.64
Total GW Withdrawals	GW	0.67	0.68	0.69	0.71	0.76	0.83	0.84	0.82	0.76	0.74	0.70	0.68	0.74
Withdrawal Total		8.01	8.02	8.27	8.97	9.40	9.67	10.85	10.51	11.27	10.18	9.29	8.05	9.38
Total Returns		**4.16**	**4.68**	**4.70**	**5.35**	**3.92**	**4.12**	**4.02**	**4.05**	**4.10**	**3.66**	**6.17**	**8.01**	**4.74**
Net SW (MGD)	**SW**	**3.18**	**2.67**	**2.88**	**2.91**	**4.72**	**4.72**	**5.98**	**5.64**	**6.41**	**5.78**	**2.42**	**-0.64**	**3.89**

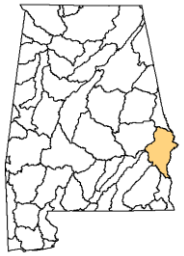
03130002-Middle Chattahoochee-Lake Harding



Subbasin number - Subbasin name

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





Area (Thousand Acres)	1,427
Estimated Population (2015)	116,236
Subregion:	Apalachicola

2015 Demands

Withdrawals

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.84	3.91	3.70	3.86	4.21	4.31	4.37	4.13	4.06	3.74	3.57	3.69	4.03
Public Supply	SW	6.32	6.11	6.13	6.24	7.47	7.60	8.21	7.85	7.49	6.84	6.09	6.03	6.87
Industrial/Mining	GW	3.50	3.40	3.52	3.47	3.48	3.52	3.50	3.39	3.46	3.56	3.44	3.39	3.47
Industrial/Mining	SW	24.90	19.19	24.91	24.91	25.94	28.13	28.31	28.20	28.53	28.63	26.46	26.44	26.26
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	0.65	0.68	0.84	0.99	1.45	2.09	2.17	1.80	1.18	1.03	0.75	0.67	1.20
Agriculture	SW	1.00	3.99	5.39	7.86	12.80	17.62	18.06	18.63	14.63	12.15	6.38	4.04	10.25
Total	**GW**	**8.99**	**7.99**	**8.06**	**8.32**	**9.15**	**9.92**	**10.03**	**9.32**	**8.70**	**8.32**	**7.76**	**7.76**	**8.70**
Total	**SW**	**32.22**	**29.28**	**36.43**	**39.01**	**46.20**	**53.34**	**54.58**	**54.68**	**50.65**	**47.61**	**38.92**	**36.51**	**43.38**

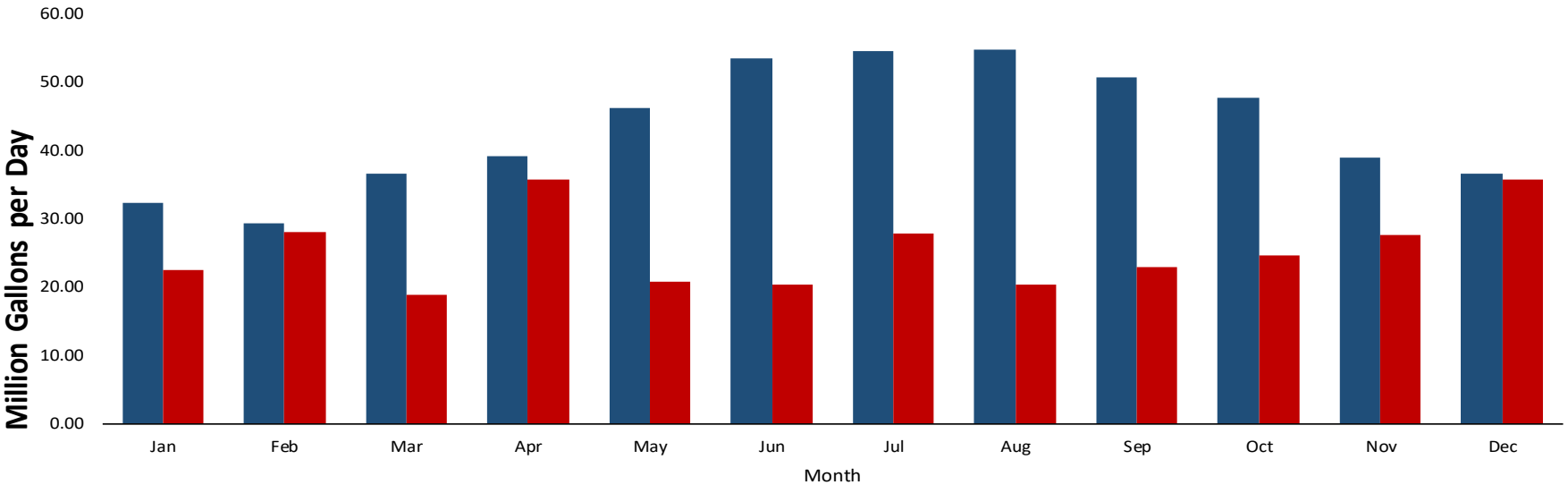
Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.39	5.58	5.45	7.21	5.08	4.92	4.48	5.13	4.42	3.90	6.73	8.92	5.60
Industrial/Mining		17.12	22.37	13.38	28.40	15.63	15.40	23.27	15.17	18.50	20.63	20.88	26.79	19.79
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		**22.51**	**27.95**	**18.83**	**35.61**	**20.71**	**20.32**	**27.75**	**20.30**	**22.92**	**24.53**	**27.61**	**35.70**	**25.39**

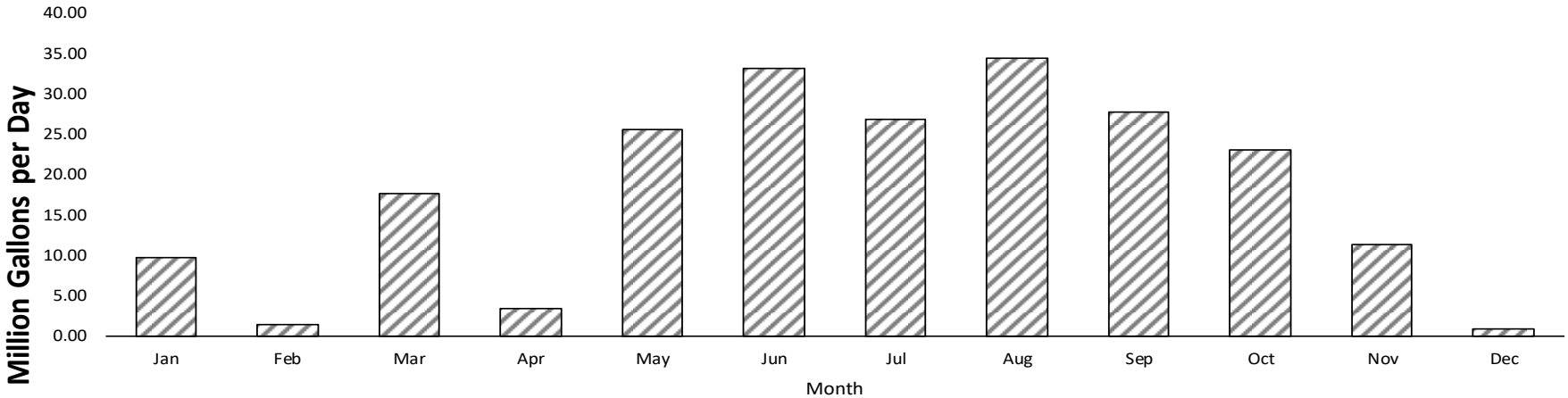
03130003-Middle Chattahoochee-W.F. George Res.

Total SW Withdrawals	SW	32.22	29.28	36.43	39.01	46.20	53.34	54.58	54.68	50.65	47.61	38.92	36.51	43.38
Total GW Withdrawals	GW	8.99	7.99	8.06	8.32	9.15	9.92	10.03	9.32	8.70	8.32	7.76	7.76	8.70
Withdrawal Total		41.21	37.27	44.49	47.33	55.35	63.27	64.61	64.00	59.35	55.93	46.68	44.27	52.08
Total Returns		**22.51**	**27.95**	**18.83**	**35.61**	**20.71**	**20.32**	**27.75**	**20.30**	**22.92**	**24.53**	**27.61**	**35.70**	**25.39**
Net SW (MGD)	**SW**	**9.72**	**1.34**	**17.60**	**3.40**	**25.50**	**33.03**	**26.83**	**34.37**	**27.73**	**23.08**	**11.31**	**0.81**	**17.98**

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



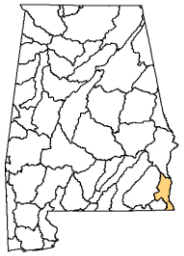
Total SW Withdrawals **Total Returns**



Net SW (MGD)

Subbasin number - Subbasin name

03130004-Lower Chattahoochee



Area (Thousand Acres)	578
Estimated Population (2015)	34,501
Subregion:	Apalachicola

2015 Demands

Withdrawals

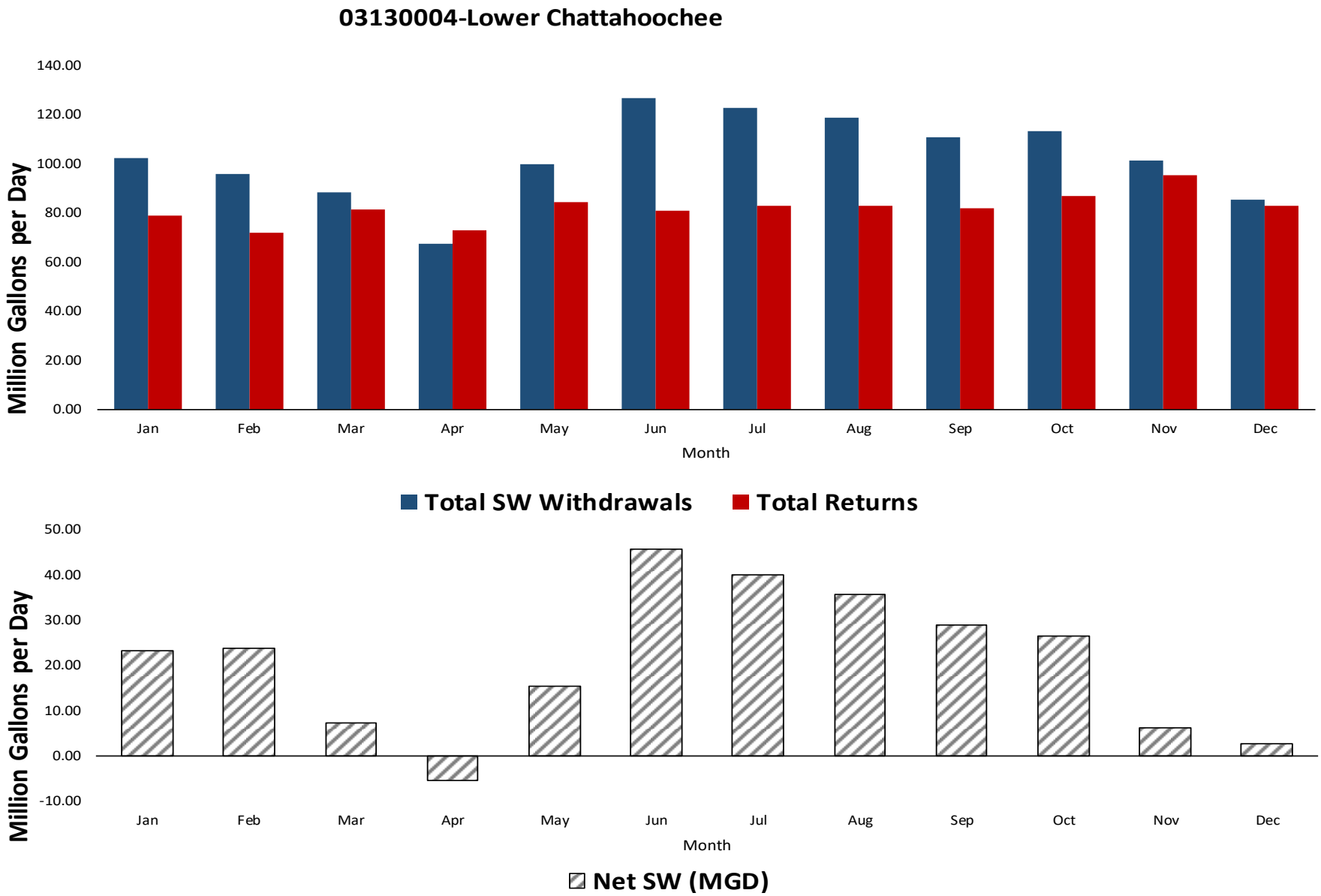
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	8.84	9.18	11.02	10.38	10.35	11.30	12.17	12.21	12.08	10.98	9.86	12.61	10.93
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.34	0.56	0.59	0.60	0.57	0.61	0.59	0.57	0.58	0.59	0.58	0.59	0.56
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	101.55	94.65	86.71	64.65	94.83	118.48	114.38	111.62	106.84	110.38	99.76	84.50	99.08
Agriculture	GW	0.67	0.70	1.45	2.10	4.24	7.19	7.58	5.67	2.64	1.97	0.89	0.65	2.99
Agriculture	SW	0.54	0.84	1.65	2.54	4.97	7.98	8.35	6.85	3.84	2.93	1.22	0.80	3.56
Total	**GW**	**9.85**	**10.45**	**13.07**	**13.07**	**15.17**	**19.10**	**20.33**	**18.44**	**15.30**	**13.54**	**11.33**	**13.85**	**14.49**
Total	**SW**	**102.09**	**95.49**	**88.36**	**67.19**	**99.80**	**126.46**	**122.73**	**118.47**	**110.68**	**113.31**	**100.98**	**85.30**	**102.64**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.25	3.75	3.78	5.34	4.15	4.02	3.84	3.29	3.50	3.39	7.57	6.49	4.45
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		74.57	68.10	77.52	67.35	80.30	76.81	78.98	79.70	78.24	83.41	87.41	76.17	77.38
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		**78.82**	**71.85**	**81.30**	**72.69**	**84.45**	**80.83**	**82.82**	**83.00**	**81.74**	**86.80**	**94.98**	**82.66**	**81.83**

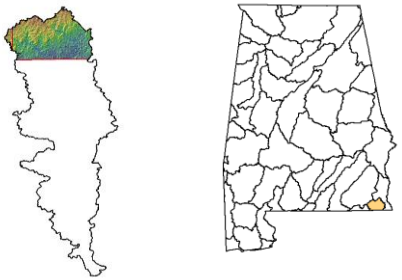
03130004-Lower Chattahoochee

Total SW Withdrawals	SW	102.09	95.49	88.36	67.19	99.80	126.46	122.73	118.47	110.68	113.31	100.98	85.30	102.64
Total GW Withdrawals	GW	9.85	10.45	13.07	13.07	15.17	19.10	20.33	18.44	15.30	13.54	11.33	13.85	14.49
Withdrawal Total		111.94	105.94	101.43	80.27	114.97	145.56	143.06	136.92	125.97	126.85	112.31	99.15	117.13
Total Returns		**78.82**	**71.85**	**81.30**	**72.69**	**84.45**	**80.83**	**82.82**	**83.00**	**81.74**	**86.80**	**94.98**	**82.66**	**81.83**
Net SW (MGD)	**SW**	**23.27**	**23.64**	**7.06**	**-5.49**	**15.35**	**45.63**	**39.91**	**35.48**	**28.94**	**26.51**	**6.00**	**2.64**	**20.82**


03130004-Lower Chattahoochee
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
50.00
40.00
30.00
20.00
10.00
0.00
-10.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03130012-Chipola



Area (Thousand Acres)	265
Estimated Population (2015)	33,345
Subregion:	Apalachicola

2015 Demands

Withdrawals

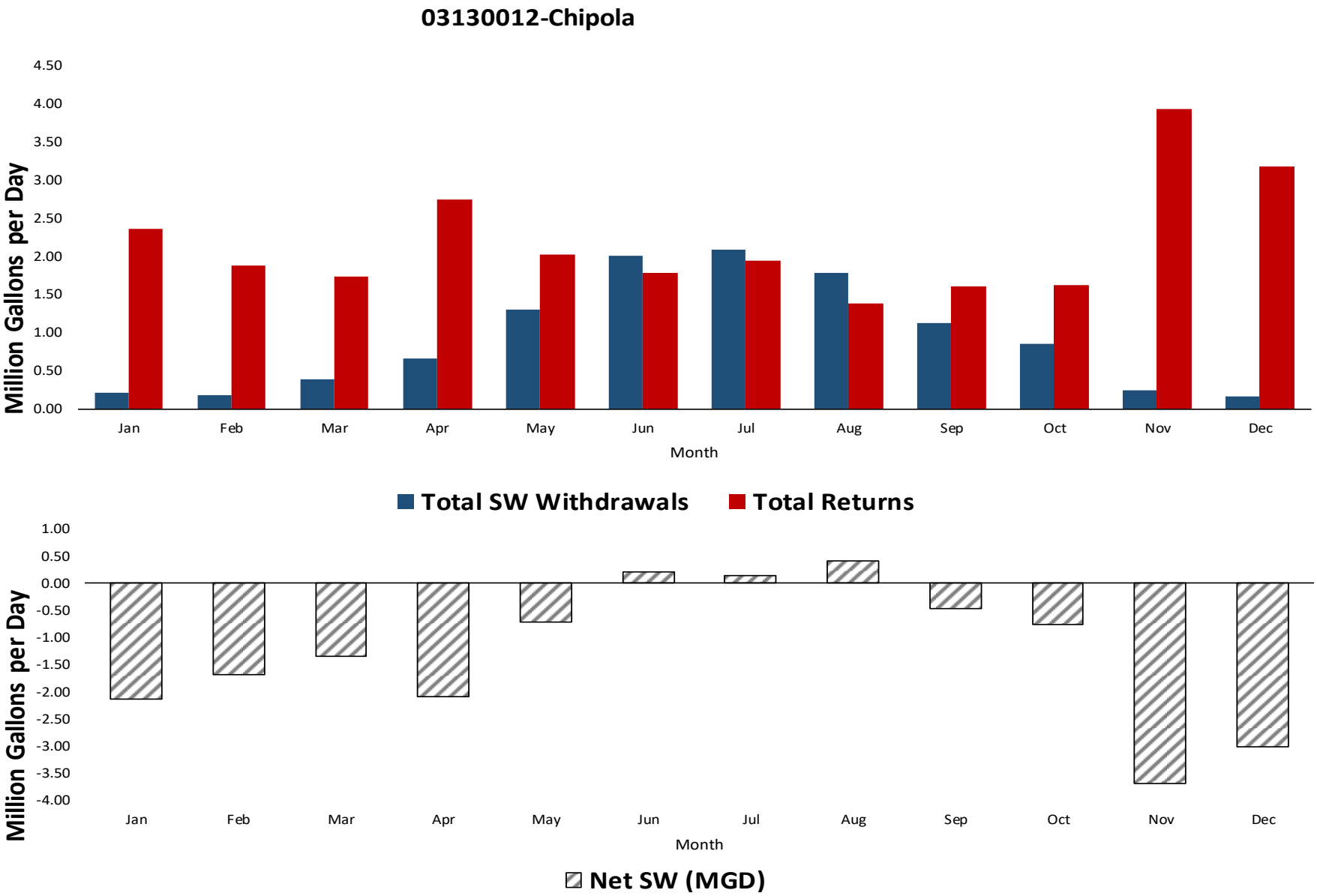
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.43	2.51	2.66	2.47	2.67	2.78	2.60	2.62	2.73	2.19	1.65	1.59	2.41
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.46	0.47	1.10	1.63	3.43	5.90	6.22	4.59	2.02	1.46	0.60	0.43	2.37
Agriculture	SW	0.21	0.17	0.38	0.66	1.30	2.00	2.09	1.78	1.11	0.85	0.24	0.16	0.92
Total	**GW**	**2.89**	**2.98**	**3.76**	**4.10**	**6.10**	**8.68**	**8.83**	**7.21**	**4.75**	**3.65**	**2.25**	**2.02**	**4.78**
Total	**SW**	**0.21**	**0.17**	**0.38**	**0.66**	**1.30**	**2.00**	**2.09**	**1.79**	**1.11**	**0.85**	**0.24**	**0.16**	**0.92**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.36	1.87	1.73	2.75	2.02	1.78	1.95	1.38	1.59	1.62	3.93	3.17	2.18
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		**2.36**	**1.87**	**1.73**	**2.75**	**2.02**	**1.78**	**1.95**	**1.38**	**1.59**	**1.62**	**3.93**	**3.17**	**2.18**

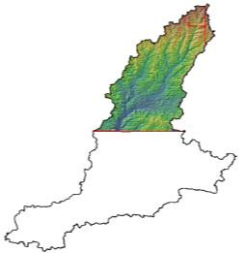
03130012-Chipola

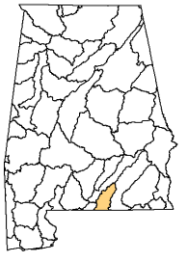
Total SW Withdrawals	SW	0.21	0.17	0.38	0.66	1.30	2.00	2.09	1.79	1.11	0.85	0.24	0.16	0.92
Total GW Withdrawals	GW	2.89	2.98	3.76	4.10	6.10	8.68	8.83	7.21	4.75	3.65	2.25	2.02	4.78
Withdrawal Total		3.10	3.15	4.14	4.76	7.39	10.68	10.91	8.99	5.87	4.50	2.50	2.18	5.70
Total Returns		**2.36**	**1.87**	**1.73**	**2.75**	**2.02**	**1.78**	**1.95**	**1.38**	**1.59**	**1.62**	**3.93**	**3.17**	**2.18**
Net SW (MGD)	**SW**	**-2.15**	**-1.69**	**-1.35**	**-2.08**	**-0.73**	**0.21**	**0.14**	**0.40**	**-0.48**	**-0.77**	**-3.69**	**-3.01**	**-1.26**


03130012-Chipola
Million Gallons per Day
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
1.00
0.50
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00
-3.50
-4.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140103-Yellow





Area (Thousand Acres)	515
Estimated Population (2015)	20,986
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

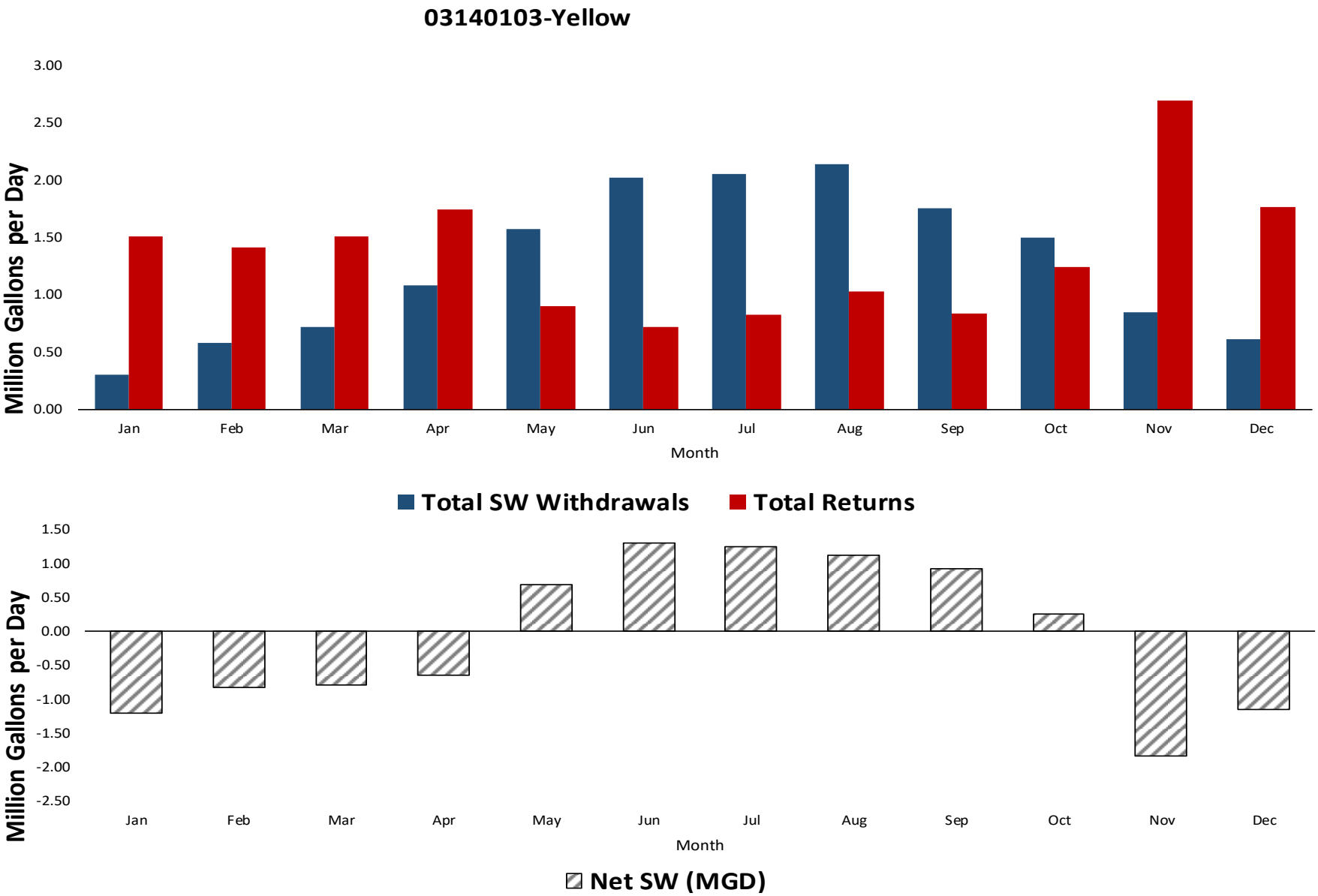
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.53	1.54	1.56	1.62	1.78	1.91	2.04	1.96	1.85	1.75	1.72	1.74	1.75
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.37	0.44	0.51	0.59	0.80	1.06	1.10	1.05	0.88	0.80	0.56	0.45	0.72
Agriculture	SW	0.30	0.58	0.71	1.08	1.57	2.02	2.06	2.13	1.76	1.49	0.84	0.61	1.27
Total	**GW**	**1.90**	**1.98**	**2.07**	**2.21**	**2.58**	**2.97**	**3.14**	**3.01**	**2.73**	**2.56**	**2.28**	**2.19**	**2.47**
Total	**SW**	**0.30**	**0.58**	**0.71**	**1.08**	**1.57**	**2.02**	**2.06**	**2.13**	**1.76**	**1.49**	**0.84**	**0.61**	**1.27**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.51	1.41	1.51	1.74	0.90	0.71	0.82	1.03	0.83	1.24	2.69	1.76	1.35
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		**1.51**	**1.41**	**1.51**	**1.74**	**0.90**	**0.71**	**0.82**	**1.03**	**0.83**	**1.24**	**2.69**	**1.76**	**1.35**

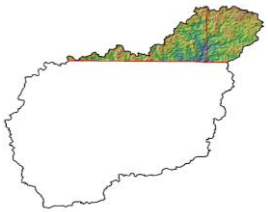
03140103-Yellow

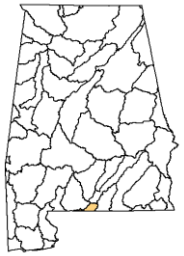
Total SW Withdrawals	SW	0.30	0.58	0.71	1.08	1.57	2.02	2.06	2.13	1.76	1.49	0.84	0.61	1.27
Total GW Withdrawals	GW	1.90	1.98	2.07	2.21	2.58	2.97	3.14	3.01	2.73	2.56	2.28	2.19	2.47
Withdrawal Total		2.20	2.56	2.78	3.30	4.15	4.98	5.20	5.14	4.49	4.05	3.12	2.80	3.74
Total Returns		**1.51**	**1.41**	**1.51**	**1.74**	**0.90**	**0.71**	**0.82**	**1.03**	**0.83**	**1.24**	**2.69**	**1.76**	**1.35**
Net SW (MGD)	**SW**	**-1.21**	**-0.83**	**-0.79**	**-0.66**	**0.67**	**1.30**	**1.24**	**1.11**	**0.92**	**0.25**	**-1.84**	**-1.15**	**-0.08**


03140103-Yellow
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
-1.50
-2.00
-2.50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140104-Blackwater





Area (Thousand Acres)	146
Estimated Population (2015)	1,735
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

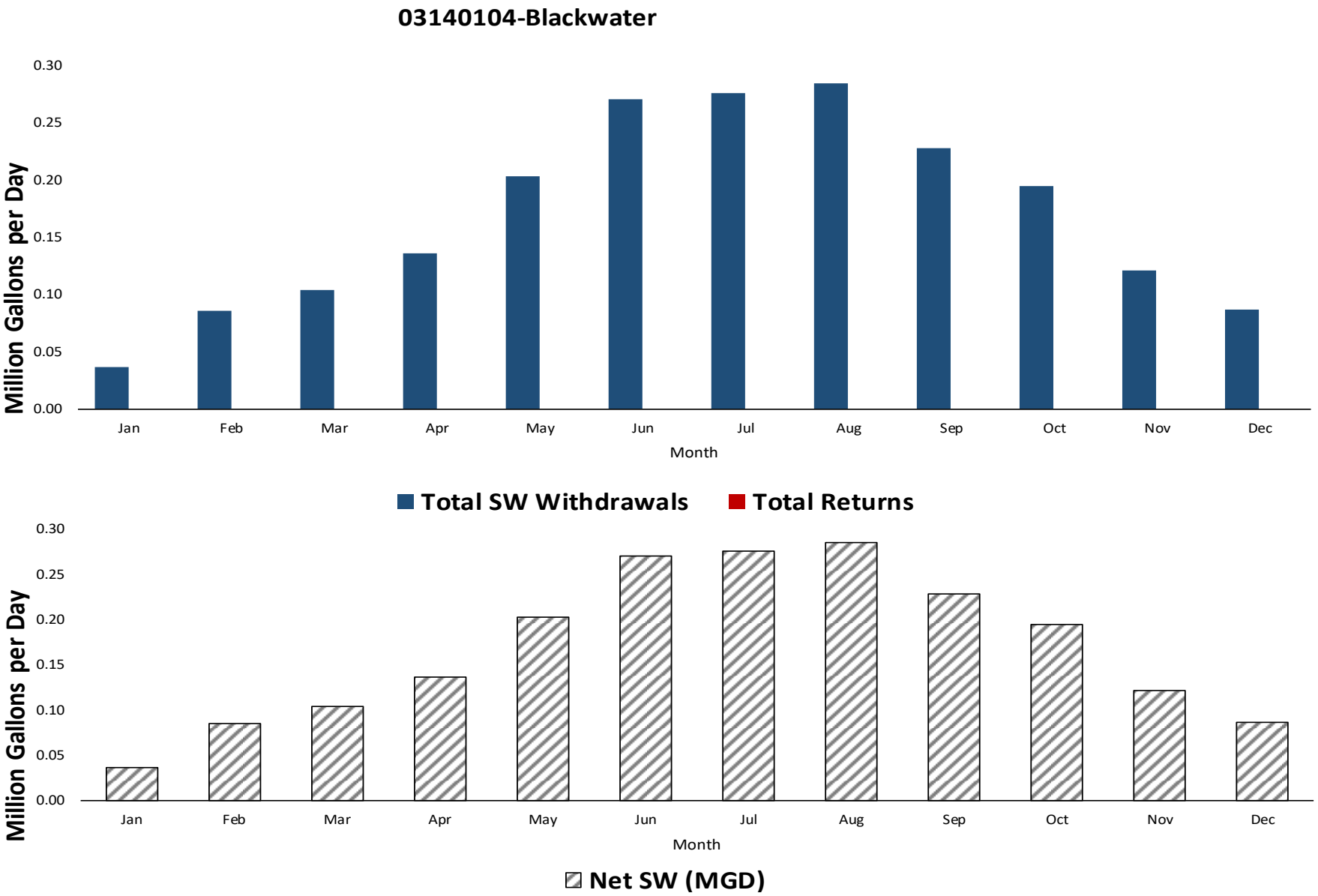
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.18	0.17	0.17	0.16	0.18	0.21	0.19	0.18	0.20	0.19	0.19	0.21	0.19
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
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	0.08	0.10	0.12	0.15	0.22	0.31	0.32	0.29	0.22	0.19	0.13	0.10	0.19
Agriculture	SW	0.04	0.09	0.10	0.14	0.20	0.27	0.28	0.28	0.23	0.19	0.12	0.09	0.17
Total	**GW**	**0.36**	**0.37**	**0.39**	**0.40**	**0.49**	**0.61**	**0.60**	**0.56**	**0.51**	**0.47**	**0.41**	**0.40**	**0.46**
Total	**SW**	**0.04**	**0.09**	**0.10**	**0.14**	**0.20**	**0.27**	**0.28**	**0.28**	**0.23**	**0.19**	**0.12**	**0.09**	**0.17**

Returns

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**

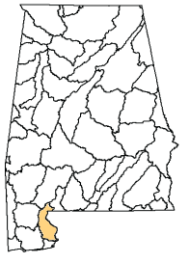
03140104-Blackwater

Total SW Withdrawals	SW	0.04	0.09	0.10	0.14	0.20	0.27	0.28	0.28	0.23	0.19	0.12	0.09	0.17
Total GW Withdrawals	GW	0.36	0.37	0.39	0.40	0.49	0.61	0.60	0.56	0.51	0.47	0.41	0.40	0.46
Withdrawal Total		0.39	0.45	0.49	0.53	0.69	0.88	0.87	0.85	0.73	0.67	0.53	0.49	0.63
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**	**0.04**	**0.09**	**0.10**	**0.14**	**0.20**	**0.27**	**0.28**	**0.28**	**0.23**	**0.19**	**0.12**	**0.09**	**0.17**


03140104-Blackwater
Million Gallons per Day
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
Million Gallons per Day
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140106-Perdido



Area (Thousand Acres)	680
Estimated Population (2015)	37,994
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

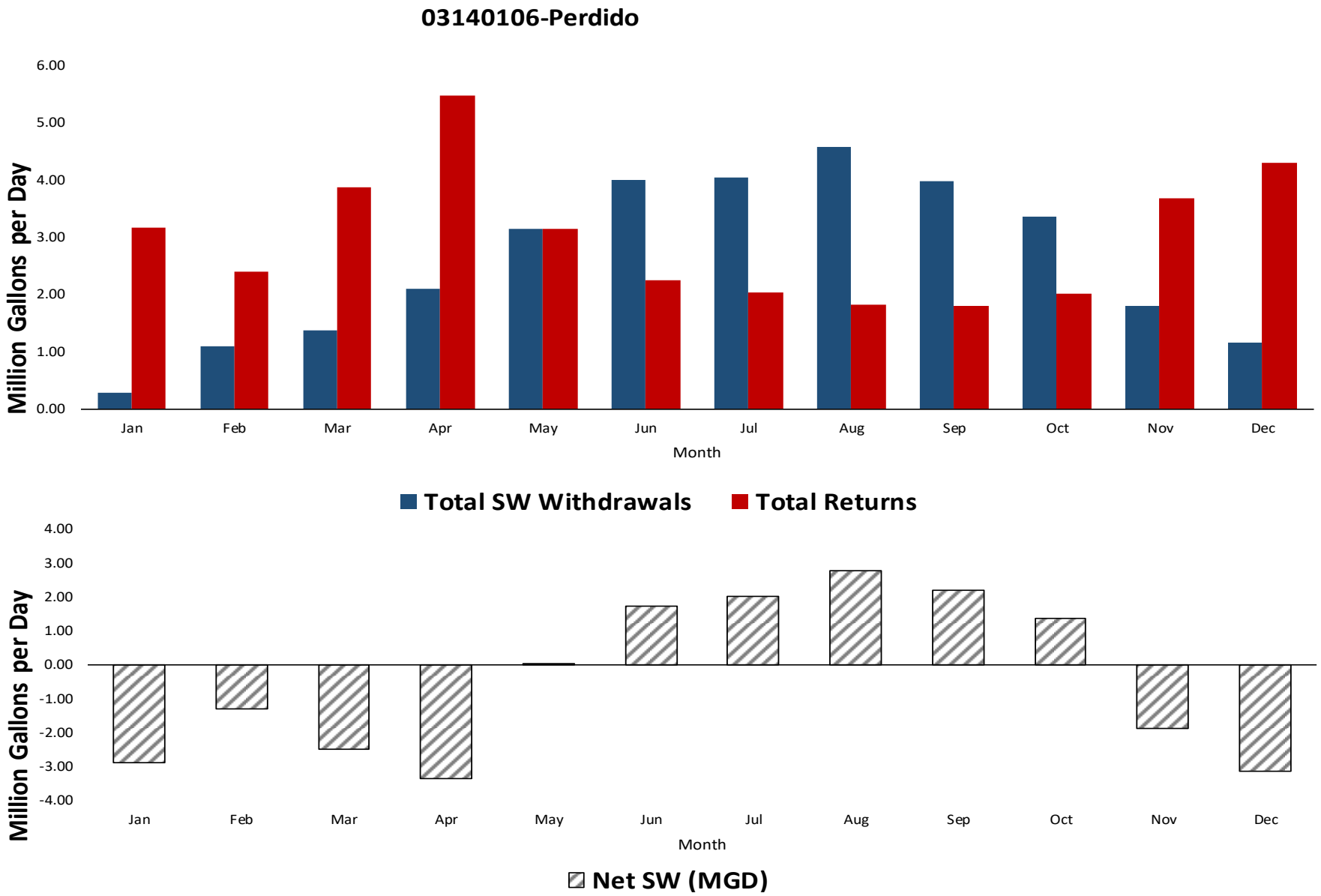
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.54	4.76	5.35	5.35	5.88	5.87	6.10	6.53	6.31	6.22	5.50	5.48	5.75
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
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	6.88	8.88	9.95	11.76	15.55	19.90	20.63	21.34	19.73	18.13	12.00	9.27	14.53
Agriculture	SW	0.27	1.10	1.37	2.09	3.14	3.98	4.04	4.56	3.97	3.36	1.79	1.15	2.58
Total	**GW**	**12.56**	**13.79**	**15.44**	**17.26**	**21.57**	**25.91**	**26.87**	**28.01**	**26.18**	**24.49**	**17.63**	**14.89**	**20.42**
Total	**SW**	**0.27**	**1.10**	**1.37**	**2.09**	**3.14**	**3.98**	**4.04**	**4.56**	**3.97**	**3.36**	**1.79**	**1.15**	**2.58**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.17	2.40	3.86	5.47	3.13	2.25	2.04	1.82	1.80	2.01	3.68	4.30	2.99
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		**3.17**	**2.40**	**3.86**	**5.47**	**3.13**	**2.25**	**2.04**	**1.82**	**1.80**	**2.01**	**3.68**	**4.30**	**2.99**

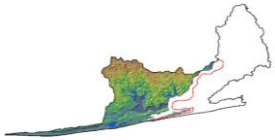
03140106-Perdido

Total SW Withdrawals	SW	0.27	1.10	1.37	2.09	3.14	3.98	4.04	4.56	3.97	3.36	1.79	1.15	2.58
Total GW Withdrawals	GW	12.56	13.79	15.44	17.26	21.57	25.91	26.87	28.01	26.18	24.49	17.63	14.89	20.42
Withdrawal Total		12.83	14.89	16.81	19.35	24.72	29.90	30.91	32.57	30.15	27.85	19.42	16.04	23.00
Total Returns		**3.17**	**2.40**	**3.86**	**5.47**	**3.13**	**2.25**	**2.04**	**1.82**	**1.80**	**2.01**	**3.68**	**4.30**	**2.99**
Net SW (MGD)	**SW**	**-2.90**	**-1.30**	**-2.49**	**-3.37**	**0.01**	**1.73**	**2.01**	**2.75**	**2.17**	**1.35**	**-1.89**	**-3.15**	**-0.42**


03140106-Perdido
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140107-Perdido Bay



Area (Thousand Acres)	165
Estimated Population (2015)	30,552
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

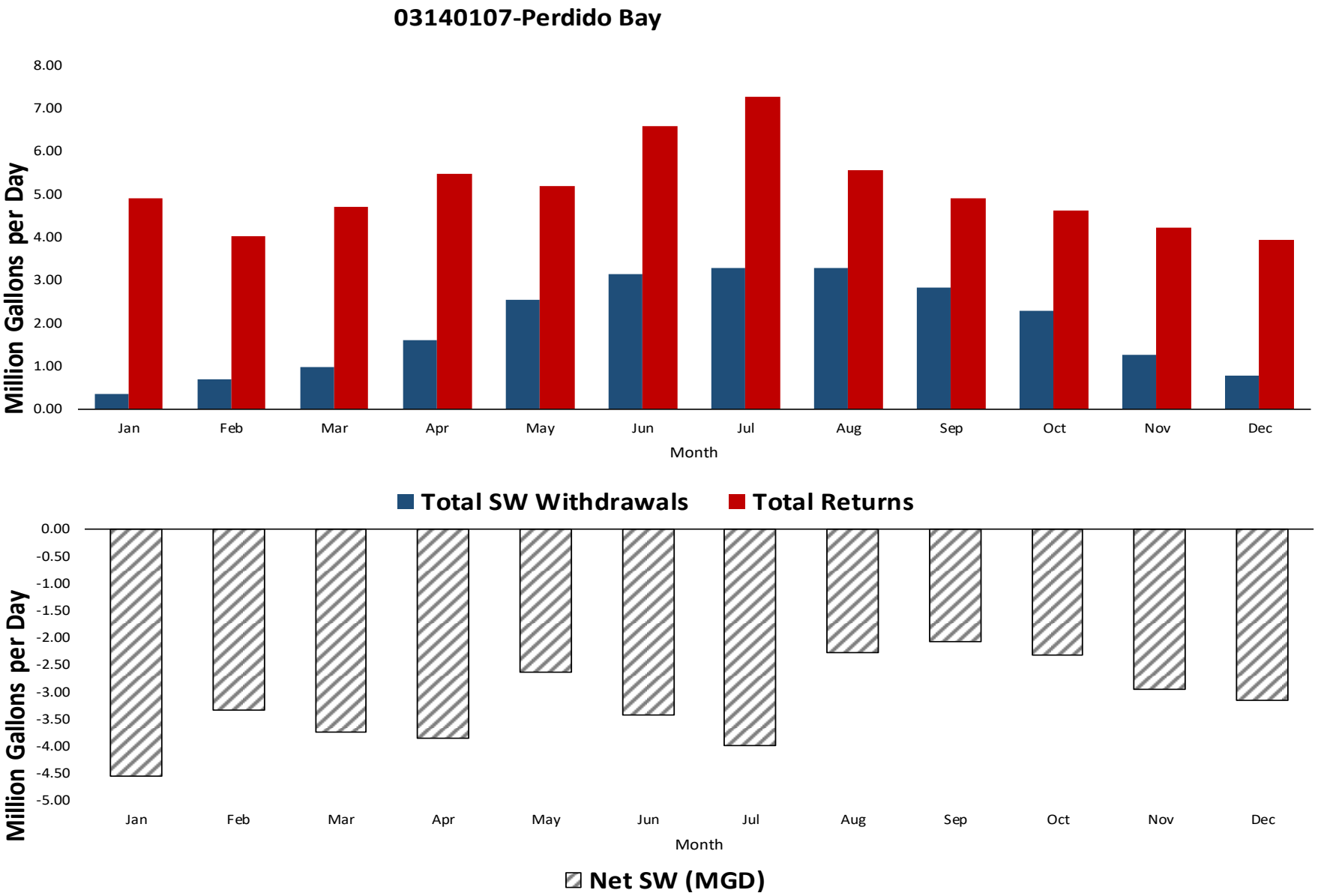
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.04	4.46	5.24	5.00	7.00	8.14	8.86	7.30	6.15	5.69	4.68	4.29	5.91
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	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	3.02	3.90	4.37	5.16	6.82	8.72	9.04	9.36	8.67	7.96	5.27	4.07	6.38
Agriculture	SW	0.34	0.69	0.97	1.60	2.52	3.13	3.27	3.27	2.82	2.28	1.25	0.76	1.92
Total	**GW**	**7.09**	**8.39**	**9.64**	**10.19**	**13.85**	**16.89**	**17.93**	**16.69**	**14.85**	**13.68**	**9.98**	**8.39**	**12.32**
Total	**SW**	**0.34**	**0.69**	**0.97**	**1.60**	**2.52**	**3.13**	**3.27**	**3.27**	**2.82**	**2.28**	**1.25**	**0.76**	**1.92**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.90	4.03	4.71	5.46	5.17	6.57	7.28	5.57	4.90	4.60	4.21	3.93	5.11
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		**4.90**	**4.03**	**4.71**	**5.46**	**5.17**	**6.57**	**7.28**	**5.57**	**4.90**	**4.60**	**4.21**	**3.93**	**5.11**

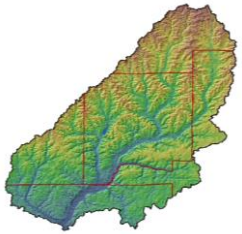
03140107-Perdido Bay

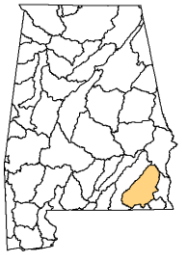
Total SW Withdrawals	SW	0.34	0.69	0.97	1.60	2.52	3.13	3.27	3.27	2.82	2.28	1.25	0.76	1.92
Total GW Withdrawals	GW	7.09	8.39	9.64	10.19	13.85	16.89	17.93	16.69	14.85	13.68	9.98	8.39	12.32
Withdrawal Total		7.44	9.08	10.61	11.79	16.37	20.02	21.20	19.96	17.67	15.96	11.23	9.15	14.24
Total Returns		**4.90**	**4.03**	**4.71**	**5.46**	**5.17**	**6.57**	**7.28**	**5.57**	**4.90**	**4.60**	**4.21**	**3.93**	**5.11**
Net SW (MGD)	**SW**	**-4.56**	**-3.33**	**-3.74**	**-3.86**	**-2.65**	**-3.44**	**-4.00**	**-2.29**	**-2.08**	**-2.33**	**-2.96**	**-3.17**	**-3.19**


03140107-Perdido Bay
Million Gallons per Day
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
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00
-3.50
-4.00
-4.50
-5.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140201-Upper Choctawhatchee





Area (Thousand Acres)	1,543
Estimated Population (2015)	155,888
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

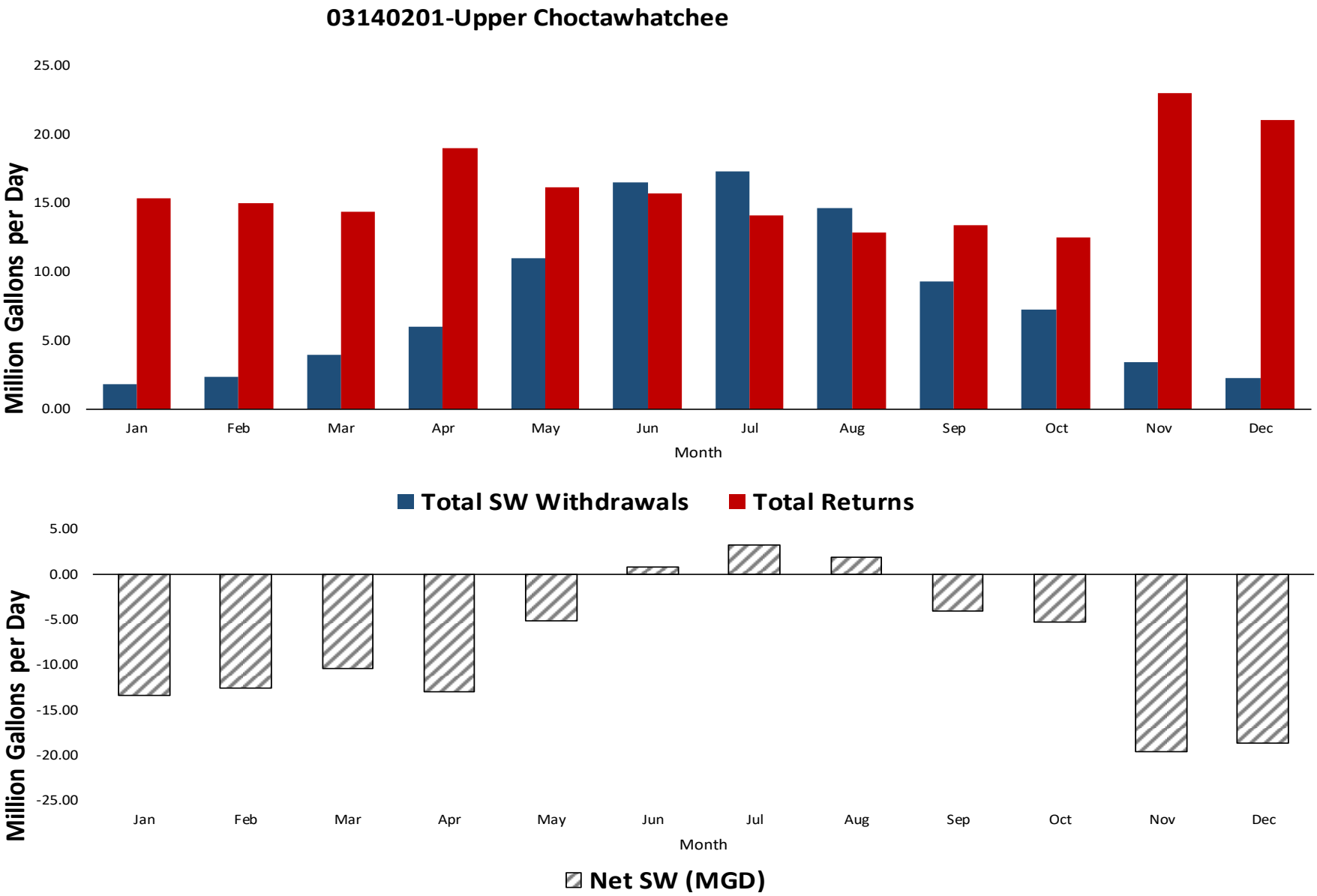
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	19.73	19.77	19.89	22.95	25.45	25.53	26.35	24.72	24.07	20.40	19.67	21.14	22.49
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Industrial/Mining	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
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	1.35	1.44	2.16	2.81	4.90	7.75	8.12	6.39	3.56	2.89	1.71	1.41	3.72
Agriculture	SW	1.72	2.22	3.86	5.89	10.86	16.39	17.18	14.56	9.22	7.15	3.27	2.18	7.91
Total	**GW**	**21.84**	**21.96**	**22.80**	**26.51**	**31.10**	**34.03**	**35.23**	**31.86**	**28.38**	**24.05**	**22.13**	**23.30**	**26.96**
Total	**SW**	**1.80**	**2.29**	**3.94**	**5.97**	**10.94**	**16.46**	**17.25**	**14.64**	**9.30**	**7.23**	**3.35**	**2.26**	**7.99**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		12.83	11.85	11.75	16.33	12.94	12.46	10.99	9.47	9.85	9.57	20.53	18.61	13.10
Industrial/Mining		2.47	3.07	2.59	2.61	3.20	3.25	3.11	3.32	3.52	2.92	2.42	2.39	2.90
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		**15.30**	**14.92**	**14.34**	**18.94**	**16.14**	**15.71**	**14.10**	**12.78**	**13.37**	**12.49**	**22.95**	**21.00**	**16.00**

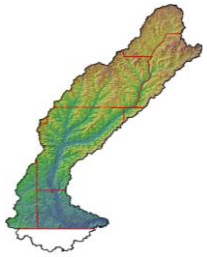
03140201-Upper Choctawhatchee

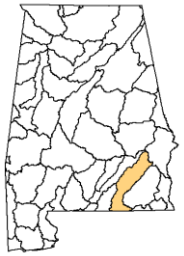
Total SW Withdrawals	SW	1.80	2.29	3.94	5.97	10.94	16.46	17.25	14.64	9.30	7.23	3.35	2.26	7.99
Total GW Withdrawals	GW	21.84	21.96	22.80	26.51	31.10	34.03	35.23	31.86	28.38	24.05	22.13	23.30	26.96
Withdrawal Total		23.64	24.25	26.74	32.48	42.04	50.50	52.48	46.50	37.68	31.28	25.48	25.56	34.95
Total Returns		**15.30**	**14.92**	**14.34**	**18.94**	**16.14**	**15.71**	**14.10**	**12.78**	**13.37**	**12.49**	**22.95**	**21.00**	**16.00**
Net SW (MGD)	**SW**	**-13.50**	**-12.63**	**-10.40**	**-12.97**	**-5.19**	**0.76**	**3.16**	**1.86**	**-4.07**	**-5.26**	**-19.60**	**-18.74**	**-8.01**


03140201-Upper Choctawhatchee
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
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
Net SW (MGD)

Subbasin number - Subbasin name

03140202-Pea





Area (Thousand Acres)	1,445
Estimated Population (2015)	51,124
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

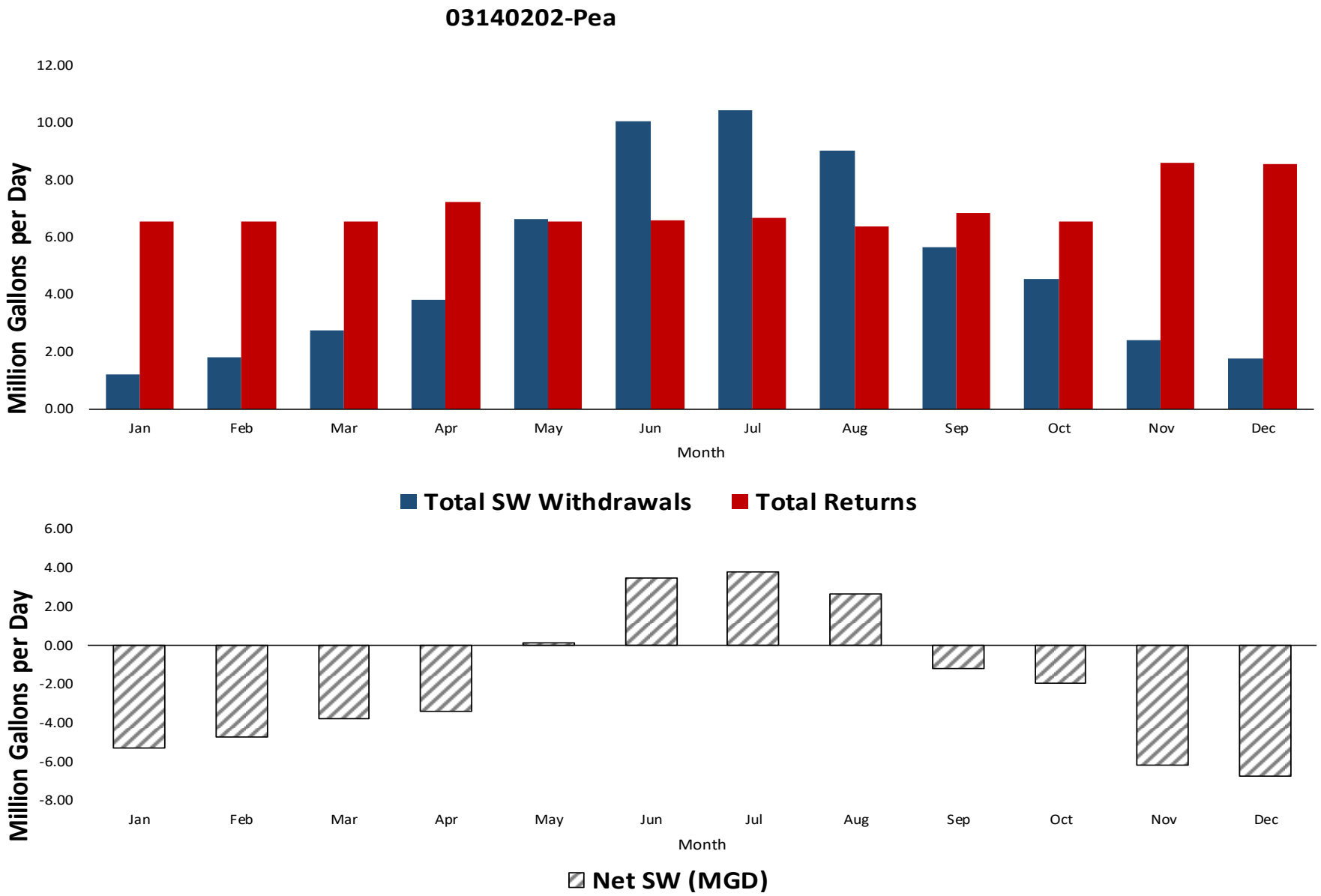
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	6.55	6.31	6.28	6.28	7.32	7.84	7.34	7.76	7.26	7.06	6.38	6.42	6.91
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.08	1.15	1.37	1.21	1.14	1.20	1.14	1.14	1.31	1.32	1.24	1.28	1.22
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	1.13	1.22	1.62	2.00	3.18	4.77	4.98	4.09	2.57	2.18	1.43	1.21	2.54
Agriculture	SW	1.18	1.77	2.69	3.78	6.60	10.01	10.40	8.96	5.61	4.51	2.37	1.73	4.99
Total	**GW**	**8.76**	**8.68**	**9.27**	**9.50**	**11.64**	**13.81**	**13.47**	**13.00**	**11.14**	**10.56**	**9.05**	**8.91**	**10.66**
Total	**SW**	**1.22**	**1.81**	**2.73**	**3.81**	**6.64**	**10.04**	**10.44**	**9.00**	**5.65**	**4.54**	**2.40**	**1.77**	**5.03**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.62	5.61	5.49	6.18	5.66	5.71	5.84	5.54	6.00	5.58	7.30	7.30	5.99
Industrial/Mining		0.90	0.95	1.04	1.04	0.86	0.86	0.81	0.85	0.85	0.94	1.28	1.24	0.97
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		**6.52**	**6.56**	**6.53**	**7.22**	**6.52**	**6.57**	**6.65**	**6.39**	**6.85**	**6.52**	**8.58**	**8.54**	**6.95**

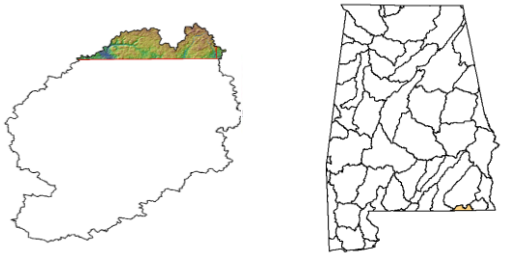
03140202-Pea

Total SW Withdrawals	SW	1.22	1.81	2.73	3.81	6.64	10.04	10.44	9.00	5.65	4.54	2.40	1.77	5.03
Total GW Withdrawals	GW	8.76	8.68	9.27	9.50	11.64	13.81	13.47	13.00	11.14	10.56	9.05	8.91	10.66
Withdrawal Total		9.98	10.49	12.00	13.31	18.27	23.85	23.91	22.00	16.79	15.10	11.46	10.68	15.69
Total Returns		**6.52**	**6.56**	**6.53**	**7.22**	**6.52**	**6.57**	**6.65**	**6.39**	**6.85**	**6.52**	**8.58**	**8.54**	**6.95**
Net SW (MGD)	**SW**	**-5.30**	**-4.75**	**-3.80**	**-3.41**	**0.11**	**3.47**	**3.79**	**2.61**	**-1.20**	**-1.98**	**-6.17**	**-6.77**	**-1.93**


03140202-Pea
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140203-Lower Choctawhatchee



Area (Thousand Acres)	135
Estimated Population (2015)	7,260
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

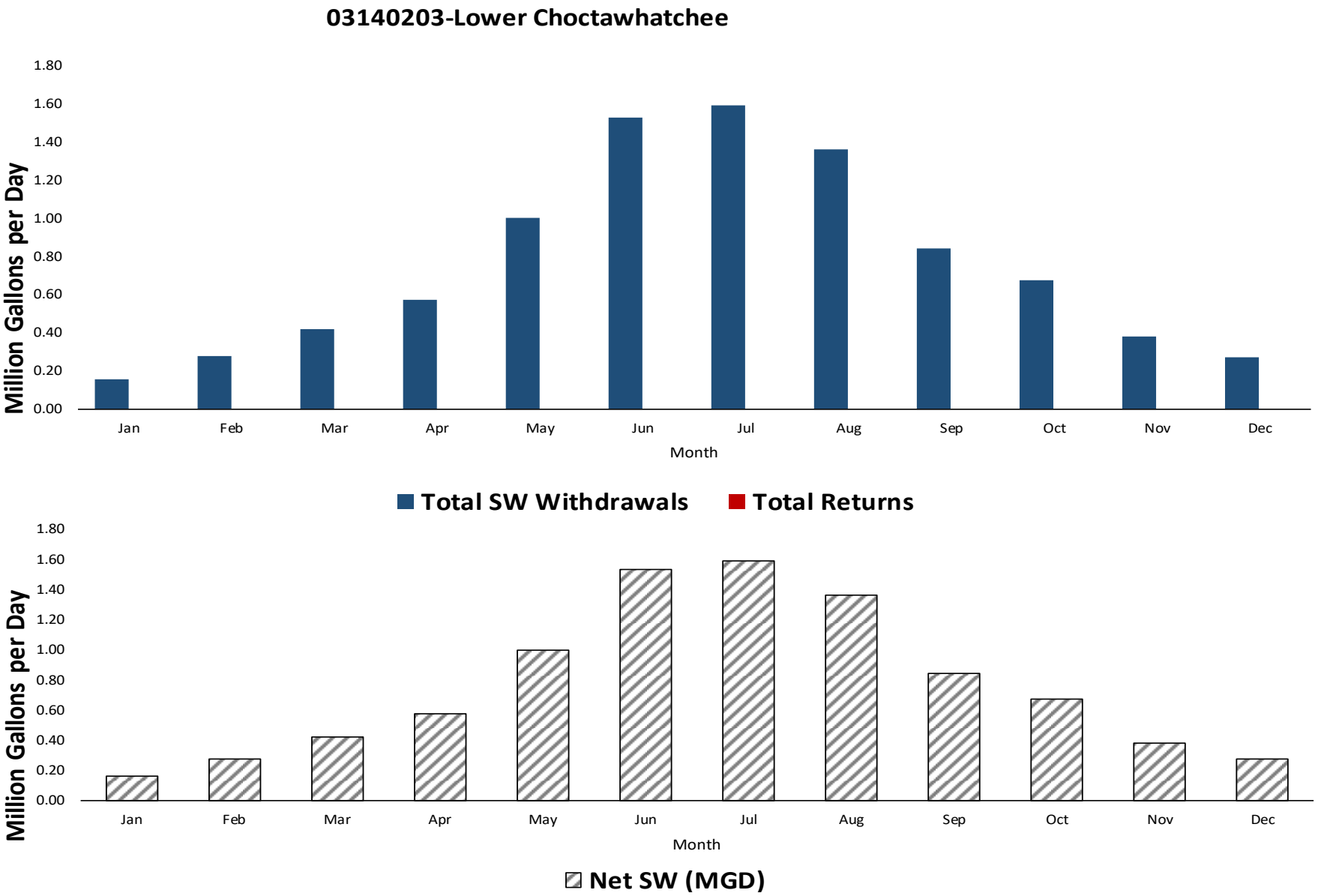
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.57	0.56	0.60	0.64	0.64	0.70	0.67	0.70	0.73	0.59	0.58	0.61	0.63
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Industrial/Mining	SW	0.00	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	0.28	0.32	0.43	0.55	0.89	1.34	1.41	1.17	0.74	0.63	0.39	0.32	0.71
Agriculture	SW	0.15	0.27	0.41	0.57	0.99	1.52	1.58	1.36	0.83	0.67	0.37	0.27	0.75
Total	**GW**	**0.86**	**0.89**	**1.05**	**1.20**	**1.54**	**2.06**	**2.09**	**1.88**	**1.48**	**1.23**	**0.98**	**0.93**	**1.35**
Total	**SW**	**0.16**	**0.28**	**0.42**	**0.57**	**1.00**	**1.53**	**1.59**	**1.36**	**0.84**	**0.67**	**0.38**	**0.27**	**0.76**

Returns

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**

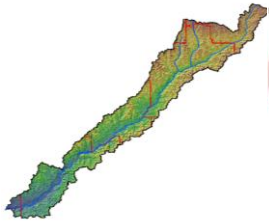
03140203-Lower Choctawhatchee

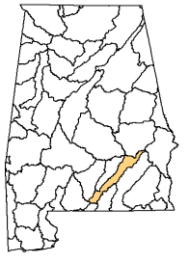
Total SW Withdrawals	SW	0.16	0.28	0.42	0.57	1.00	1.53	1.59	1.36	0.84	0.67	0.38	0.27	0.76
Total GW Withdrawals	GW	0.86	0.89	1.05	1.20	1.54	2.06	2.09	1.88	1.48	1.23	0.98	0.93	1.35
Withdrawal Total		1.02	1.16	1.46	1.77	2.53	3.58	3.67	3.24	2.32	1.91	1.35	1.20	2.11
Total Returns		**0.00**	**0.00**	**0.00**	**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**	**0.28**	**0.42**	**0.57**	**1.00**	**1.53**	**1.59**	**1.36**	**0.84**	**0.67**	**0.38**	**0.27**	**0.76**


03140203-Lower Choctawhatchee
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
1.80
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)

Subbasin number - Subbasin name

03140301-Upper Conecuh





Area (Thousand Acres)	822
Estimated Population (2015)	28,478
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

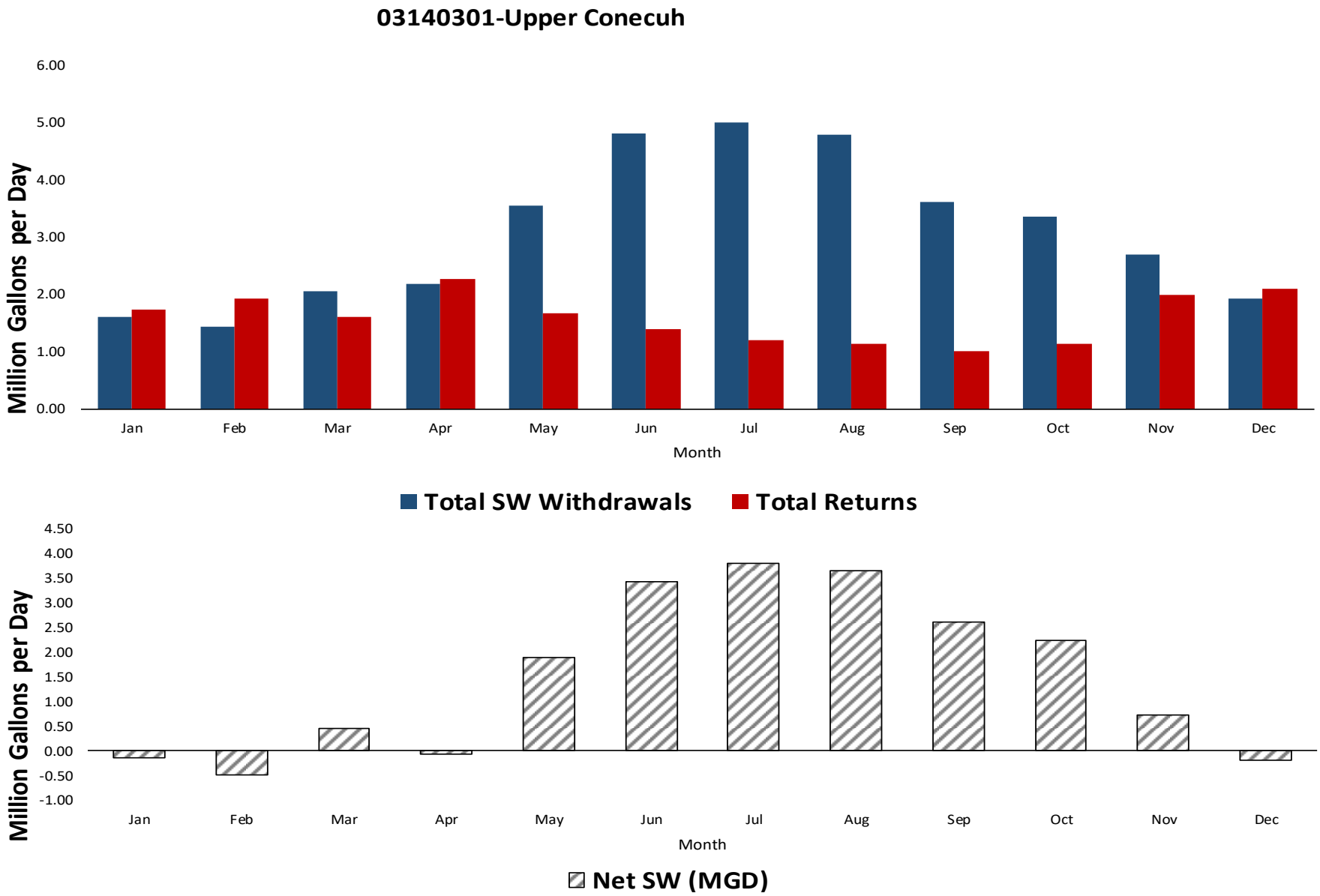
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.92	6.43	6.10	6.22	6.69	6.97	7.70	7.61	6.74	6.44	6.01	5.75	6.55
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.99	0.68	1.02	0.59	1.01	1.34	1.42	1.43	1.10	1.29	1.70	1.15	1.15
Agriculture	GW	0.48	0.53	0.65	0.77	1.12	1.58	1.65	1.43	1.02	0.90	0.63	0.53	0.94
Agriculture	SW	0.61	0.74	1.02	1.59	2.52	3.45	3.57	3.36	2.50	2.06	0.99	0.76	1.94
Total	**GW**	**6.42**	**6.98**	**6.77**	**7.01**	**7.83**	**8.58**	**9.37**	**9.06**	**7.78**	**7.36**	**6.65**	**6.30**	**7.51**
Total	**SW**	**1.60**	**1.42**	**2.05**	**2.19**	**3.54**	**4.80**	**4.99**	**4.79**	**3.60**	**3.35**	**2.69**	**1.91**	**3.09**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.60	1.81	1.52	2.18	1.56	1.23	1.05	0.97	0.87	0.99	1.86	1.98	1.47
Industrial/Mining		0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.01
Thermoelectric		0.13	0.10	0.07	0.06	0.08	0.14	0.15	0.15	0.12	0.12	0.10	0.10	0.11
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		**1.74**	**1.92**	**1.61**	**2.25**	**1.66**	**1.38**	**1.21**	**1.13**	**1.01**	**1.12**	**1.98**	**2.10**	**1.59**

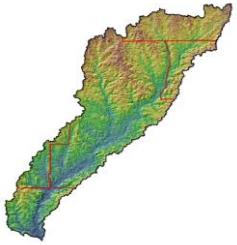
03140301-Upper Conecuh

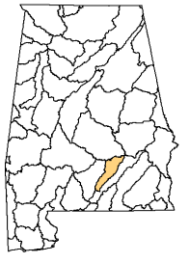
Total SW Withdrawals	SW	1.60	1.42	2.05	2.19	3.54	4.80	4.99	4.79	3.60	3.35	2.69	1.91	3.09
Total GW Withdrawals	GW	6.42	6.98	6.77	7.01	7.83	8.58	9.37	9.06	7.78	7.36	6.65	6.30	7.51
Withdrawal Total		8.02	8.41	8.82	9.20	11.36	13.38	14.36	13.85	11.38	10.71	9.35	8.22	10.60
Total Returns		**1.74**	**1.92**	**1.61**	**2.25**	**1.66**	**1.38**	**1.21**	**1.13**	**1.01**	**1.12**	**1.98**	**2.10**	**1.59**
Net SW (MGD)	**SW**	**-0.14**	**-0.50**	**0.44**	**-0.07**	**1.88**	**3.42**	**3.79**	**3.66**	**2.60**	**2.23**	**0.72**	**-0.18**	**1.50**


03140301-Upper Conecuh
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
4.50
4.00
3.50
3.00
2.50
2.00
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)

Subbasin number - Subbasin name

03140302-Patsaliga





Area (Thousand Acres)	600
Estimated Population (2015)	12,834
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

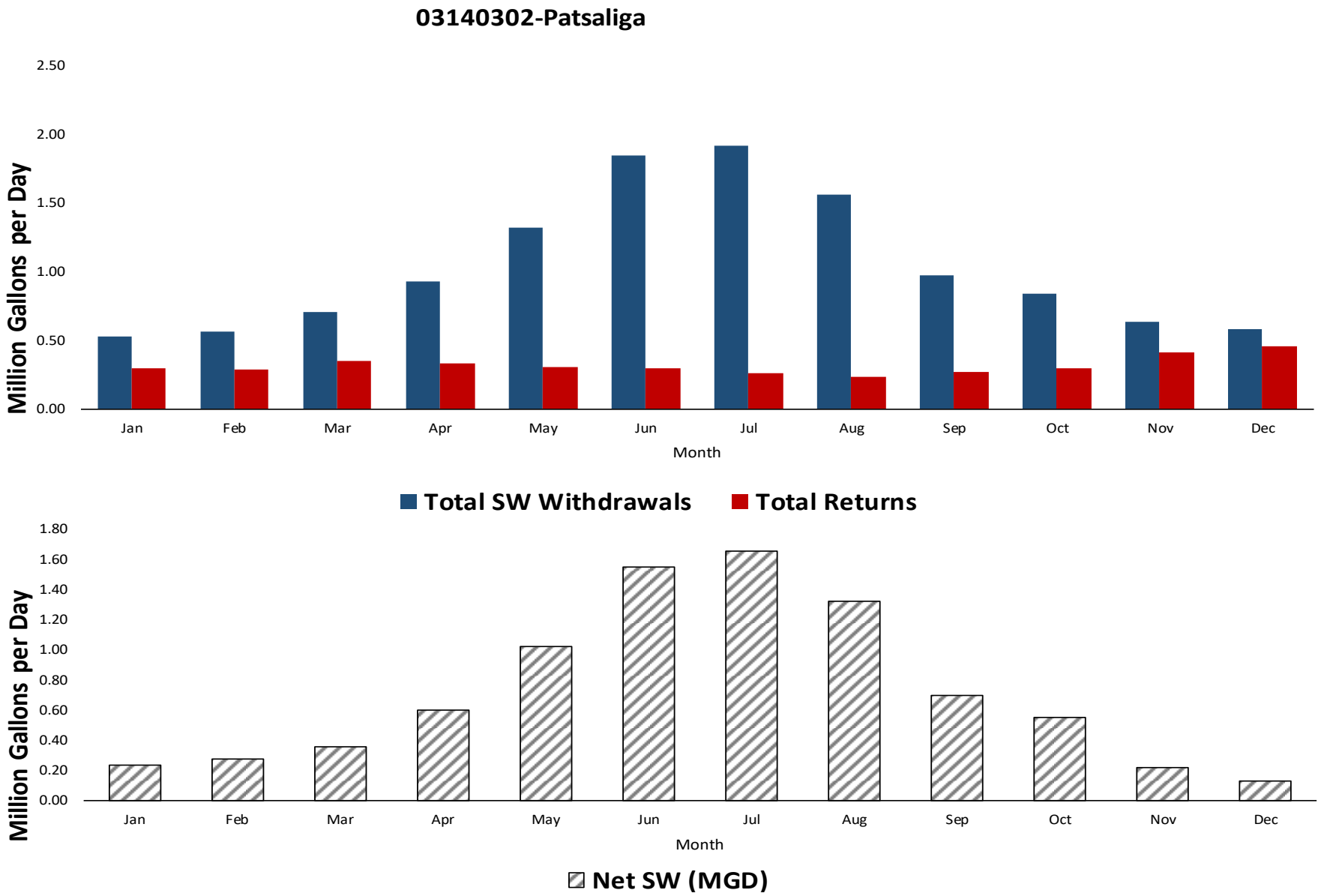
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.94	1.60	1.59	1.64	1.81	1.99	2.05	1.93	1.93	1.79	1.75	1.78	1.82
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
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	0.54	0.62	0.67	0.74	0.90	1.09	1.12	1.14	1.05	0.98	0.74	0.63	0.85
Agriculture	SW	0.49	0.52	0.66	0.88	1.28	1.81	1.87	1.51	0.93	0.79	0.59	0.54	0.99
Total	**GW**	**2.57**	**2.31**	**2.35**	**2.47**	**2.80**	**3.17**	**3.26**	**3.15**	**3.07**	**2.86**	**2.58**	**2.50**	**2.76**
Total	**SW**	**0.53**	**0.56**	**0.70**	**0.92**	**1.32**	**1.85**	**1.91**	**1.55**	**0.97**	**0.83**	**0.63**	**0.58**	**1.03**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.30	0.29	0.34	0.33	0.30	0.30	0.26	0.24	0.27	0.29	0.41	0.45	0.31
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		**0.30**	**0.29**	**0.34**	**0.33**	**0.30**	**0.30**	**0.26**	**0.24**	**0.27**	**0.29**	**0.41**	**0.45**	**0.31**

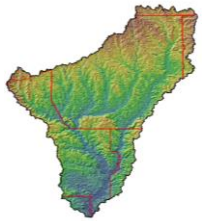
03140302-Patsaliga

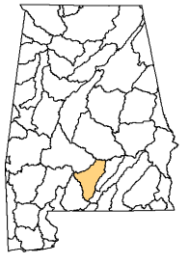
Total SW Withdrawals	SW	0.53	0.56	0.70	0.92	1.32	1.85	1.91	1.55	0.97	0.83	0.63	0.58	1.03
Total GW Withdrawals	GW	2.57	2.31	2.35	2.47	2.80	3.17	3.26	3.15	3.07	2.86	2.58	2.50	2.76
Withdrawal Total		3.10	2.87	3.05	3.39	4.12	5.01	5.17	4.71	4.04	3.69	3.21	3.08	3.79
Total Returns		**0.30**	**0.29**	**0.34**	**0.33**	**0.30**	**0.30**	**0.26**	**0.24**	**0.27**	**0.29**	**0.41**	**0.45**	**0.31**
Net SW (MGD)	**SW**	**0.23**	**0.28**	**0.35**	**0.59**	**1.02**	**1.55**	**1.65**	**1.32**	**0.70**	**0.54**	**0.21**	**0.13**	**0.72**


03140302-Patsaliga
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)

Subbasin number - Subbasin name

03140303-Sepulga





Area (Thousand Acres)	1,049
Estimated Population (2015)	25,424
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

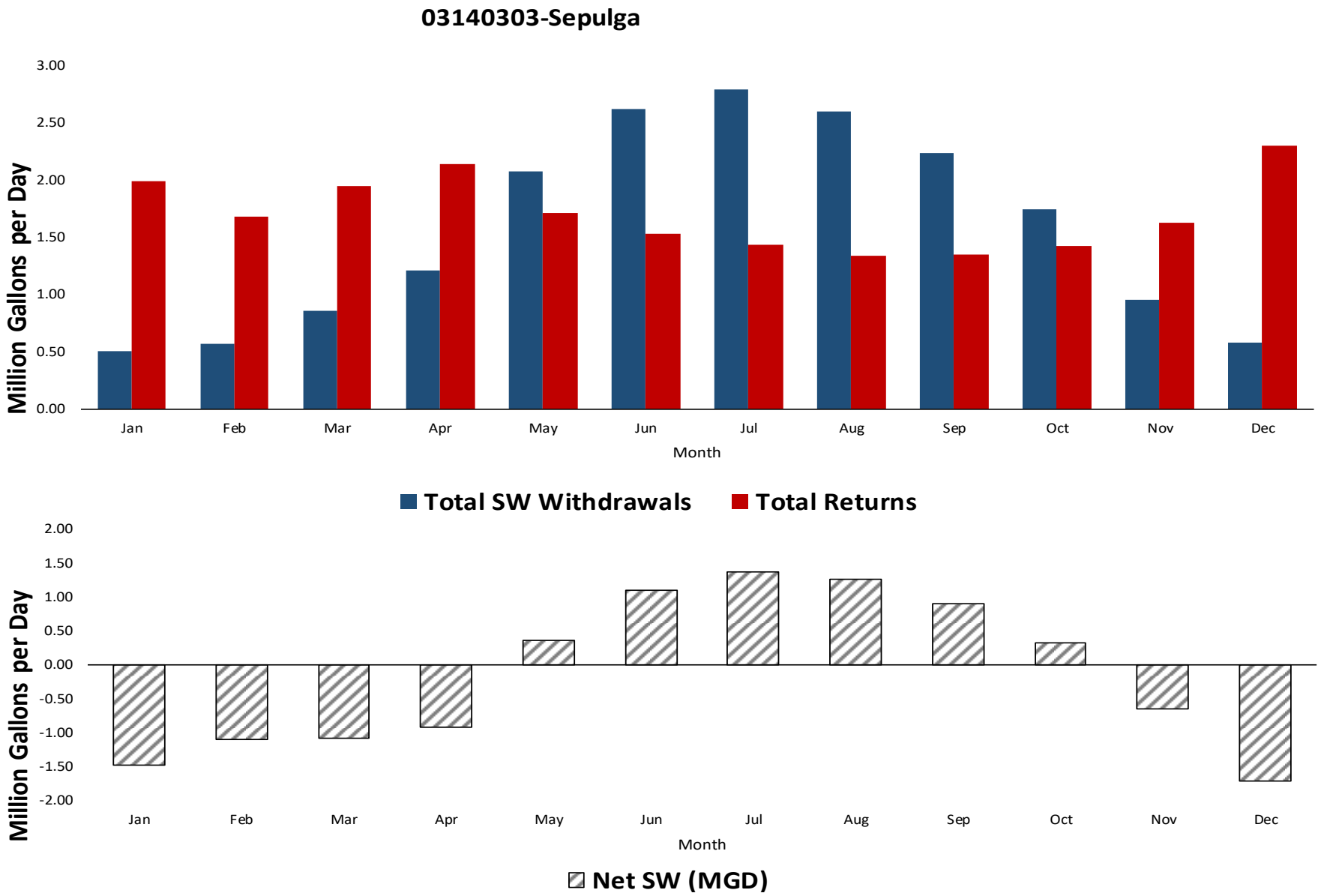
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.91	2.64	2.89	2.71	3.17	2.91	2.95	2.93	2.78	2.71	2.62	2.53	2.81
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.24	0.24	0.22	0.19	0.23	0.23	0.26	0.26	0.29	0.24	0.25	0.23	0.24
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	0.23	0.24	0.26	0.28	0.34	0.43	0.44	0.40	0.34	0.31	0.26	0.24	0.31
Agriculture	SW	0.49	0.56	0.84	1.19	2.06	2.60	2.78	2.58	2.22	1.73	0.95	0.57	1.55
Total	**GW**	**3.37**	**3.12**	**3.36**	**3.19**	**3.74**	**3.57**	**3.65**	**3.60**	**3.40**	**3.27**	**3.13**	**2.99**	**3.37**
Total	**SW**	**0.50**	**0.57**	**0.85**	**1.20**	**2.07**	**2.61**	**2.79**	**2.59**	**2.23**	**1.74**	**0.95**	**0.58**	**1.56**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.96	1.65	1.92	2.11	1.68	1.50	1.41	1.31	1.32	1.40	1.59	2.27	1.68
Industrial/Mining		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		0.00	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		**1.99**	**1.68**	**1.95**	**2.14**	**1.71**	**1.53**	**1.43**	**1.34**	**1.34**	**1.42**	**1.62**	**2.29**	**1.70**

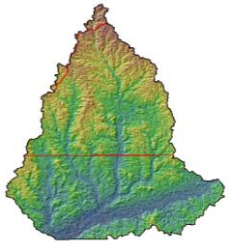
03140303-Sepulga

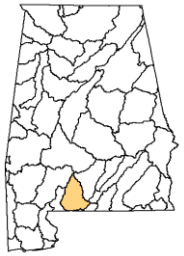
Total SW Withdrawals	SW	0.50	0.57	0.85	1.20	2.07	2.61	2.79	2.59	2.23	1.74	0.95	0.58	1.56
Total GW Withdrawals	GW	3.37	3.12	3.36	3.19	3.74	3.57	3.65	3.60	3.40	3.27	3.13	2.99	3.37
Withdrawal Total		3.87	3.69	4.22	4.39	5.81	6.18	6.45	6.19	5.64	5.01	4.08	3.57	4.93
Total Returns		**1.99**	**1.68**	**1.95**	**2.14**	**1.71**	**1.53**	**1.43**	**1.34**	**1.34**	**1.42**	**1.62**	**2.29**	**1.70**
Net SW (MGD)	**SW**	**-1.49**	**-1.11**	**-1.09**	**-0.93**	**0.36**	**1.08**	**1.36**	**1.25**	**0.89**	**0.32**	**-0.66**	**-1.71**	**-0.14**


03140303-Sepulga
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
2.00
1.50
1.00
0.50
0.00
-0.50
-1.00
-1.50
-2.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03140304-Lower Conecuh





Area (Thousand Acres)	1,000
Estimated Population (2015)	25,098
Subregion:	Choctawhatchee-Escambia

2015 Demands

Withdrawals

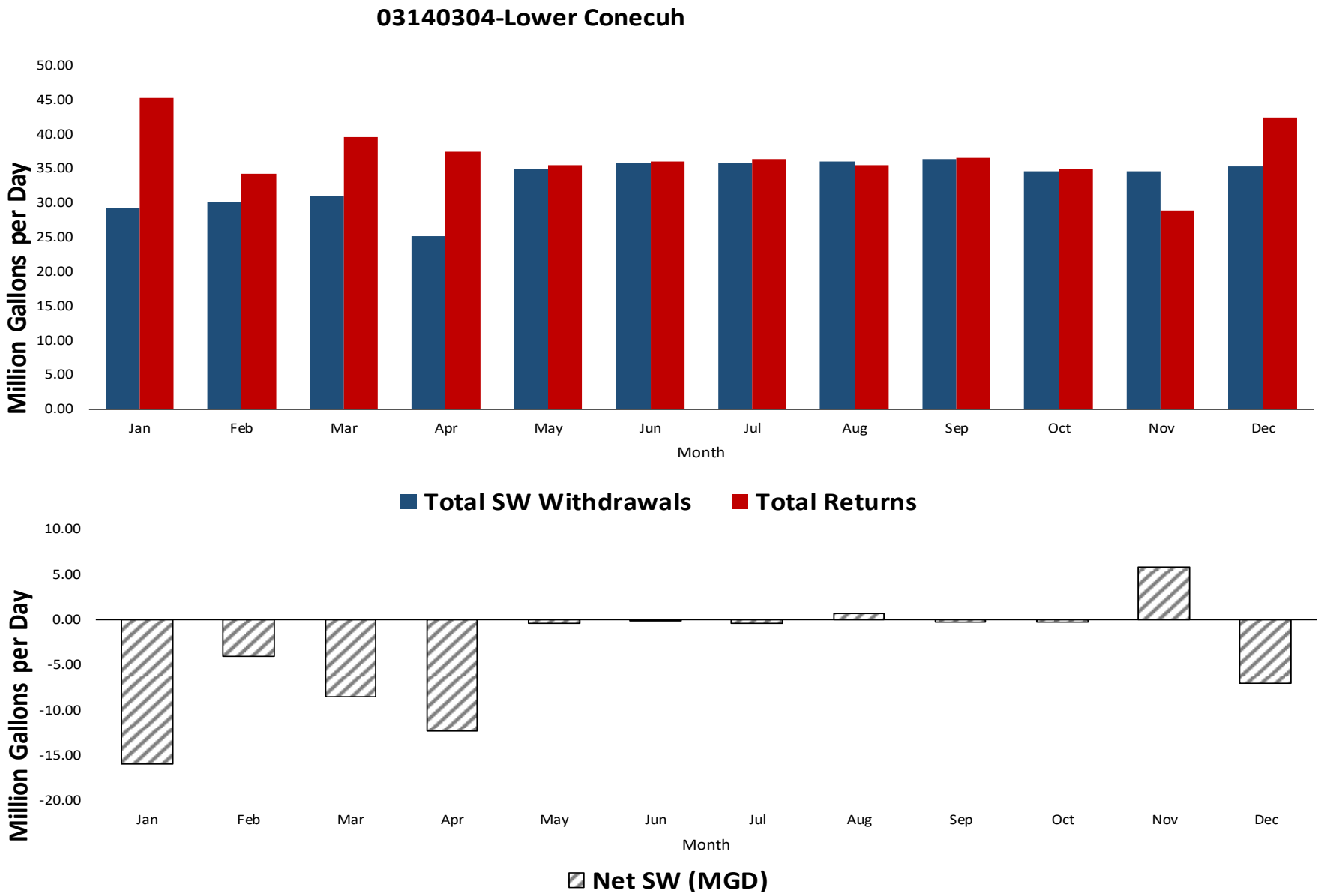
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.38	3.24	3.05	4.54	4.62	3.90	3.72	3.89	3.79	3.40	3.27	3.34	3.68
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	2.13	2.18	2.20	2.21	2.24	2.21	2.18	2.02	2.00	2.00	1.98	1.99	2.11
Industrial/Mining	SW	29.01	29.91	30.71	24.41	34.01	34.61	34.71	34.81	35.21	33.71	34.21	35.01	32.55
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	0.29	0.39	0.50	0.80	1.20	1.25	1.06	0.70	0.60	0.37	0.30	0.65
Agriculture	SW	0.23	0.24	0.32	0.62	0.91	1.11	1.13	1.19	1.02	0.85	0.36	0.27	0.69
Total	**GW**	**5.77**	**5.71**	**5.65**	**7.25**	**7.66**	**7.31**	**7.15**	**6.96**	**6.49**	**6.01**	**5.62**	**5.63**	**6.44**
Total	**SW**	**29.24**	**30.15**	**31.03**	**25.03**	**34.92**	**35.72**	**35.84**	**36.00**	**36.23**	**34.57**	**34.57**	**35.28**	**33.24**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.52	2.52	1.90	2.54	1.83	1.87	2.04	1.52	1.46	1.53	2.10	2.35	2.02
Industrial/Mining		42.70	31.70	37.70	34.81	33.61	34.04	34.20	33.91	35.11	33.40	26.75	40.01	34.83
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		**45.23**	**34.23**	**39.60**	**37.35**	**35.44**	**35.91**	**36.24**	**35.44**	**36.57**	**34.94**	**28.85**	**42.36**	**36.85**

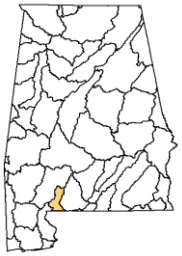
03140304-Lower Conecuh

Total SW Withdrawals	SW	29.24	30.15	31.03	25.03	34.92	35.72	35.84	36.00	36.23	34.57	34.57	35.28	33.24
Total GW Withdrawals	GW	5.77	5.71	5.65	7.25	7.66	7.31	7.15	6.96	6.49	6.01	5.62	5.63	6.44
Withdrawal Total		35.01	35.87	36.69	32.28	42.58	43.03	42.99	42.96	42.72	40.57	40.19	40.91	39.68
Total Returns		**45.23**	**34.23**	**39.60**	**37.35**	**35.44**	**35.91**	**36.24**	**35.44**	**36.57**	**34.94**	**28.85**	**42.36**	**36.85**
Net SW (MGD)	**SW**	**-15.99**	**-4.07**	**-8.57**	**-12.32**	**-0.52**	**-0.20**	**-0.40**	**0.56**	**-0.34**	**-0.37**	**5.72**	**-7.08**	**-3.60**


03140304-Lower Conecuh
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
Total SW Withdrawals
Total Returns
Million Gallons per Day
10.00
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)

Subbasin number - Subbasin name

03140305-Escambia



Area (Thousand Acres)	366
Estimated Population (2015)	18,377
Subregion:	Perdido-Escambia

2015 Demands

Withdrawals

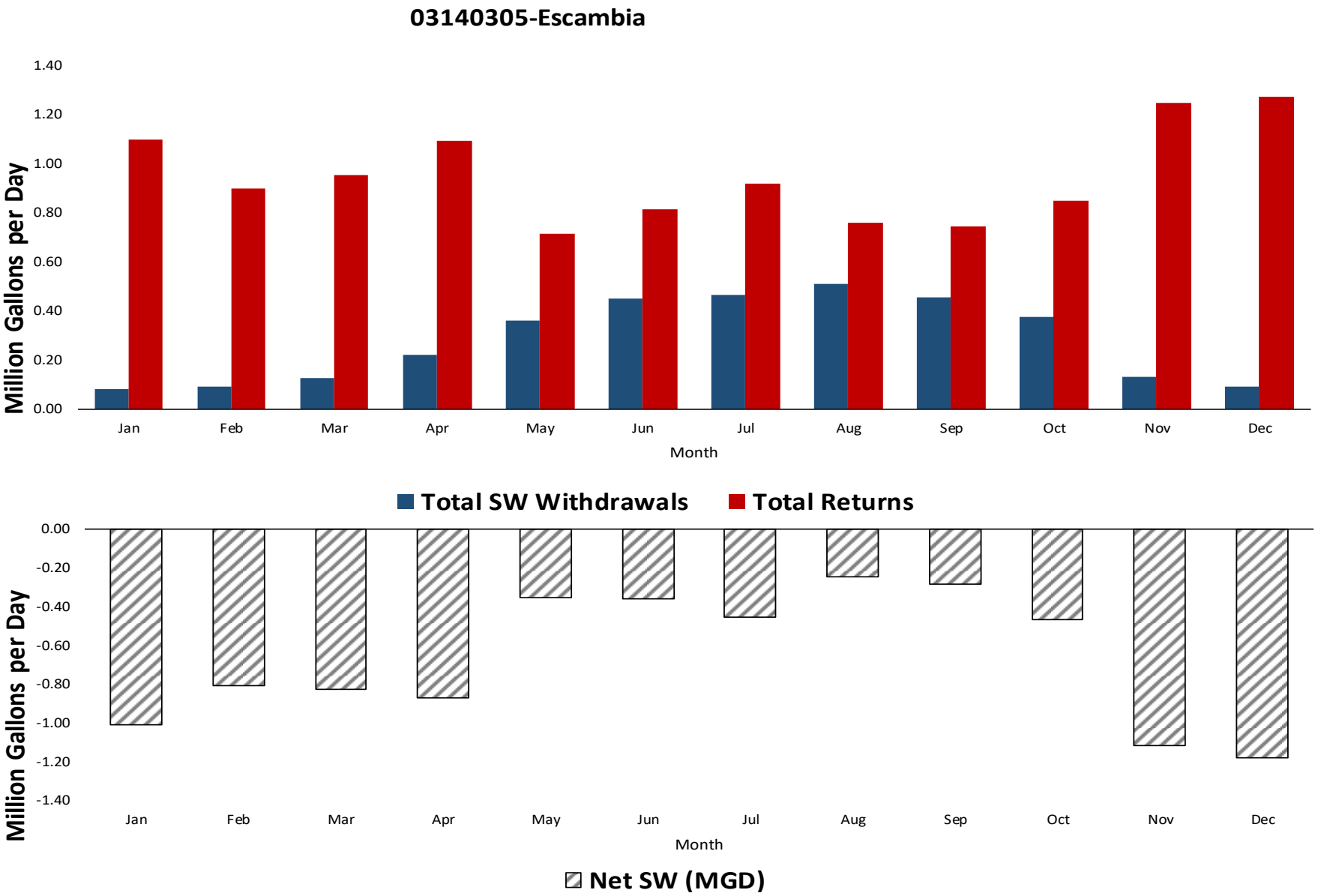
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.24	2.54	2.19	2.11	2.19	2.60	2.22	2.43	2.56	2.28	2.54	2.36	2.35
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Industrial/Mining	SW	0.00	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	0.11	0.13	0.18	0.23	0.38	0.57	0.60	0.50	0.32	0.27	0.17	0.13	0.30
Agriculture	SW	0.08	0.09	0.12	0.22	0.36	0.45	0.46	0.51	0.45	0.37	0.13	0.09	0.28
Total	**GW**	**2.64**	**2.96**	**2.66**	**2.63**	**2.85**	**3.46**	**3.10**	**3.22**	**3.17**	**2.84**	**3.00**	**2.78**	**2.94**
Total	**SW**	**0.08**	**0.09**	**0.13**	**0.22**	**0.36**	**0.45**	**0.46**	**0.51**	**0.45**	**0.37**	**0.13**	**0.09**	**0.28**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.06	0.89	0.93	1.05	0.70	0.79	0.89	0.73	0.72	0.83	1.20	1.25	0.92
Industrial/Mining		0.04	0.01	0.02	0.04	0.01	0.02	0.03	0.02	0.02	0.02	0.05	0.03	0.03
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		**1.10**	**0.90**	**0.95**	**1.09**	**0.72**	**0.81**	**0.92**	**0.76**	**0.74**	**0.85**	**1.25**	**1.27**	**0.95**

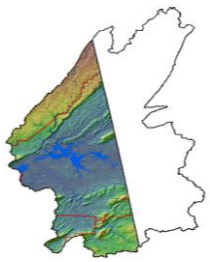
03140305-Escambia

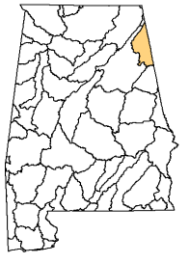
Total SW Withdrawals	SW	0.08	0.09	0.13	0.22	0.36	0.45	0.46	0.51	0.45	0.37	0.13	0.09	0.28
Total GW Withdrawals	GW	2.64	2.96	2.66	2.63	2.85	3.46	3.10	3.22	3.17	2.84	3.00	2.78	2.94
Withdrawal Total		2.72	3.05	2.79	2.85	3.21	3.91	3.57	3.73	3.62	3.22	3.13	2.86	3.22
Total Returns		**1.10**	**0.90**	**0.95**	**1.09**	**0.72**	**0.81**	**0.92**	**0.76**	**0.74**	**0.85**	**1.25**	**1.27**	**0.95**
Net SW (MGD)	**SW**	**-1.01**	**-0.81**	**-0.83**	**-0.87**	**-0.36**	**-0.36**	**-0.45**	**-0.25**	**-0.29**	**-0.47**	**-1.12**	**-1.18**	**-0.67**


03140305-Escambia
Million Gallons per Day
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
0.00
-0.20
-0.40
-0.60
-0.80
-1.00
-1.20
-1.40
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150105-Upper Coosa





Area (Thousand Acres)	851
Estimated Population (2015)	43,046
Subregion:	Alabama

2015 Demands

Withdrawals

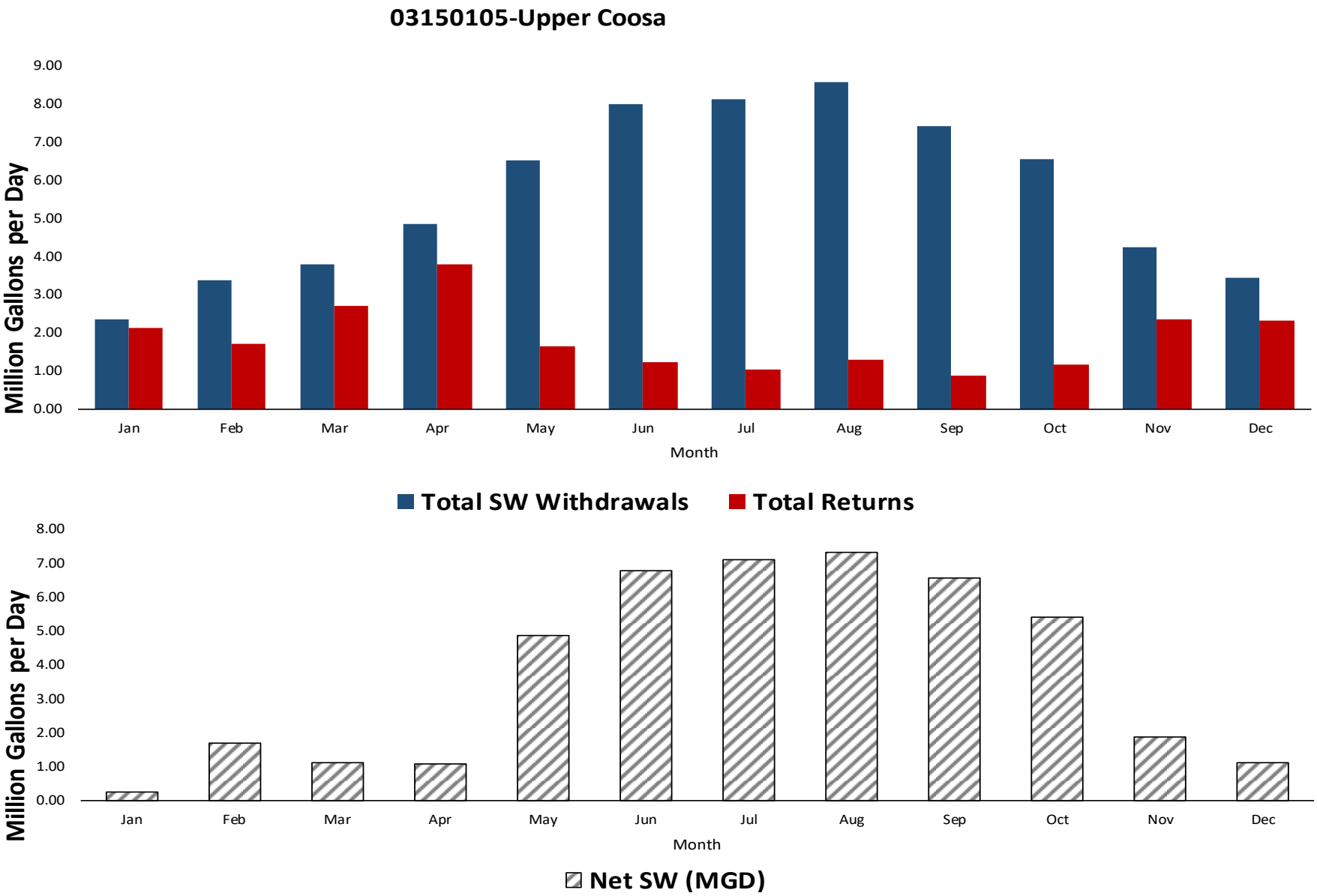
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.29	3.03	3.04	3.08	3.27	3.60	3.81	3.59	3.42	3.26	3.27	3.33	3.34
Public Supply	SW	1.56	1.55	1.56	1.62	1.69	1.77	1.78	1.76	1.69	1.68	1.54	1.57	1.65
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.90	0.91	0.91	0.93	0.95	0.97	0.98	0.98	0.98	0.97	0.93	0.91	0.94
Agriculture	SW	0.77	1.80	2.24	3.22	4.82	6.21	6.33	6.81	5.73	4.86	2.69	1.85	3.96
Total	**GW**	**4.18**	**3.94**	**3.96**	**4.01**	**4.22**	**4.57**	**4.79**	**4.57**	**4.39**	**4.22**	**4.20**	**4.24**	**4.28**
Total	**SW**	**2.34**	**3.36**	**3.79**	**4.84**	**6.50**	**7.98**	**8.11**	**8.57**	**7.42**	**6.54**	**4.22**	**3.43**	**5.60**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		2.11	1.69	2.71	3.77	1.64	1.23	1.02	1.28	0.87	1.15	2.35	2.32	1.84
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		**2.11**	**1.69**	**2.71**	**3.77**	**1.64**	**1.23**	**1.02**	**1.28**	**0.87**	**1.15**	**2.35**	**2.32**	**1.84**

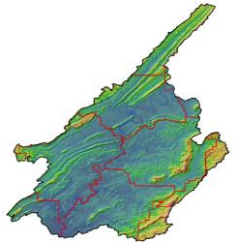
03150105-Upper Coosa

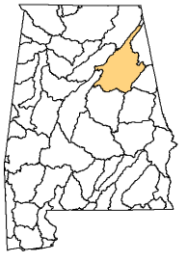
Total SW Withdrawals	SW	2.34	3.36	3.79	4.84	6.50	7.98	8.11	8.57	7.42	6.54	4.22	3.43	5.60
Total GW Withdrawals	GW	4.18	3.94	3.96	4.01	4.22	4.57	4.79	4.57	4.39	4.22	4.20	4.24	4.28
Withdrawal Total		6.52	7.29	7.75	8.85	10.72	12.55	12.90	13.14	11.81	10.76	8.42	7.67	9.88
Total Returns		**2.11**	**1.69**	**2.71**	**3.77**	**1.64**	**1.23**	**1.02**	**1.28**	**0.87**	**1.15**	**2.35**	**2.32**	**1.84**
Net SW (MGD)	**SW**	**0.23**	**1.66**	**1.08**	**1.07**	**4.86**	**6.75**	**7.09**	**7.29**	**6.55**	**5.40**	**1.87**	**1.10**	**3.76**


03150105-Upper Coosa
Million Gallons per Day
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
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150106-Middle Coosa





Area (Thousand Acres)	2,582
Estimated Population (2015)	355,811
Subregion:	Alabama

2015 Demands

Withdrawals

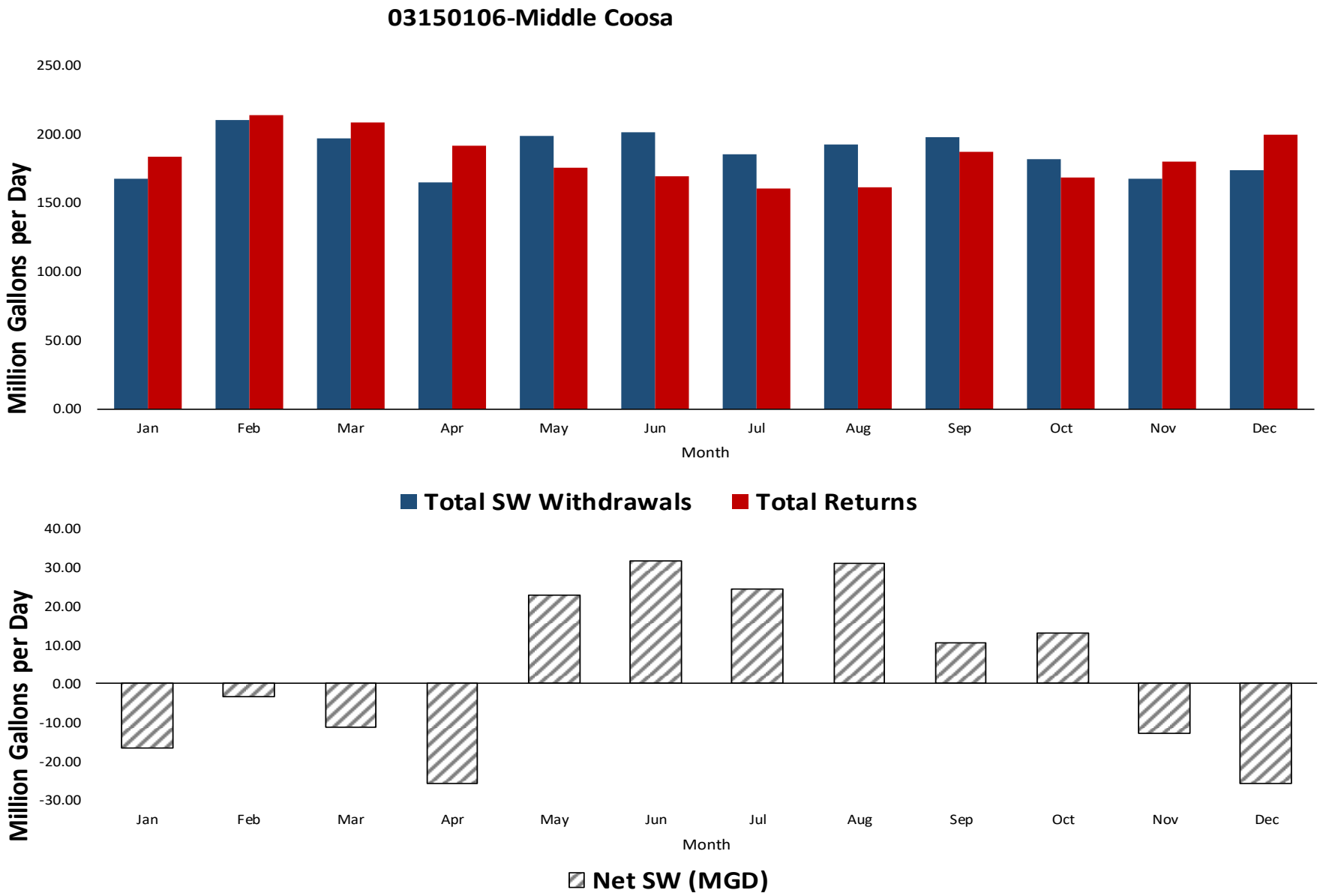
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	38.02	38.81	37.48	36.39	39.41	41.24	42.30	42.60	39.51	38.15	37.24	35.95	38.93
Public Supply	SW	27.65	27.36	26.03	26.11	28.04	30.08	30.51	30.92	28.55	26.76	25.34	25.04	27.70
Industrial/Mining	GW	2.37	2.31	2.40	2.27	2.40	2.53	2.42	2.46	2.41	2.42	2.52	2.43	2.41
Industrial/Mining	SW	38.87	40.83	36.06	33.38	45.02	45.40	41.93	44.69	43.40	38.34	39.61	45.40	41.09
Thermoelectric	SW	98.21	137.20	128.84	96.27	110.07	105.62	92.10	96.13	108.40	102.43	95.03	98.41	105.52
Agriculture	GW	0.97	0.98	1.11	1.22	1.60	2.11	2.18	1.86	1.35	1.23	1.02	0.97	1.39
Agriculture	SW	2.19	4.57	6.23	9.36	15.03	19.92	20.58	20.82	16.91	13.90	7.22	4.70	11.83
Total	**GW**	**41.35**	**42.10**	**40.99**	**39.89**	**43.42**	**45.88**	**46.90**	**46.92**	**43.27**	**41.80**	**40.77**	**39.35**	**42.73**
Total	**SW**	**166.93**	**209.95**	**197.16**	**165.12**	**198.16**	**201.01**	**185.11**	**192.57**	**197.26**	**181.43**	**167.20**	**173.55**	**186.13**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		52.32	47.58	57.87	69.23	35.42	34.21	28.84	29.06	25.55	25.78	46.07	60.47	42.70
Industrial/Mining		33.28	29.00	27.98	25.94	31.48	29.97	37.91	36.48	53.10	40.52	38.95	40.91	35.46
Thermoelectric		97.84	136.85	122.52	95.84	108.50	105.27	93.85	95.98	108.05	102.08	94.94	97.93	104.97
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		**183.45**	**213.43**	**208.37**	**191.00**	**175.40**	**169.45**	**160.61**	**161.52**	**186.70**	**168.38**	**179.96**	**199.31**	**183.13**

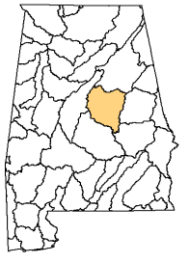
03150106-Middle Coosa

Total SW Withdrawals	SW	166.93	209.95	197.16	165.12	198.16	201.01	185.11	192.57	197.26	181.43	167.20	173.55	186.13
Total GW Withdrawals	GW	41.35	42.10	40.99	39.89	43.42	45.88	46.90	46.92	43.27	41.80	40.77	39.35	42.73
Withdrawal Total		208.28	252.05	238.15	205.01	241.57	246.90	232.02	239.48	240.53	223.23	207.98	212.90	228.86
Total Returns		**183.45**	**213.43**	**208.37**	**191.00**	**175.40**	**169.45**	**160.61**	**161.52**	**186.70**	**168.38**	**179.96**	**199.31**	**183.13**
Net SW (MGD)	**SW**	**-16.52**	**-3.48**	**-11.21**	**-25.88**	**22.76**	**31.56**	**24.51**	**31.04**	**10.56**	**13.05**	**-12.76**	**-25.76**	**3.00**


03150106-Middle Coosa
250.00
200.00
150.00
100.00
50.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150107-Lower Coosa



Area (Thousand Acres)	1,961
Estimated Population (2015)	146,896
Subregion:	Alabama

2015 Demands

Withdrawals

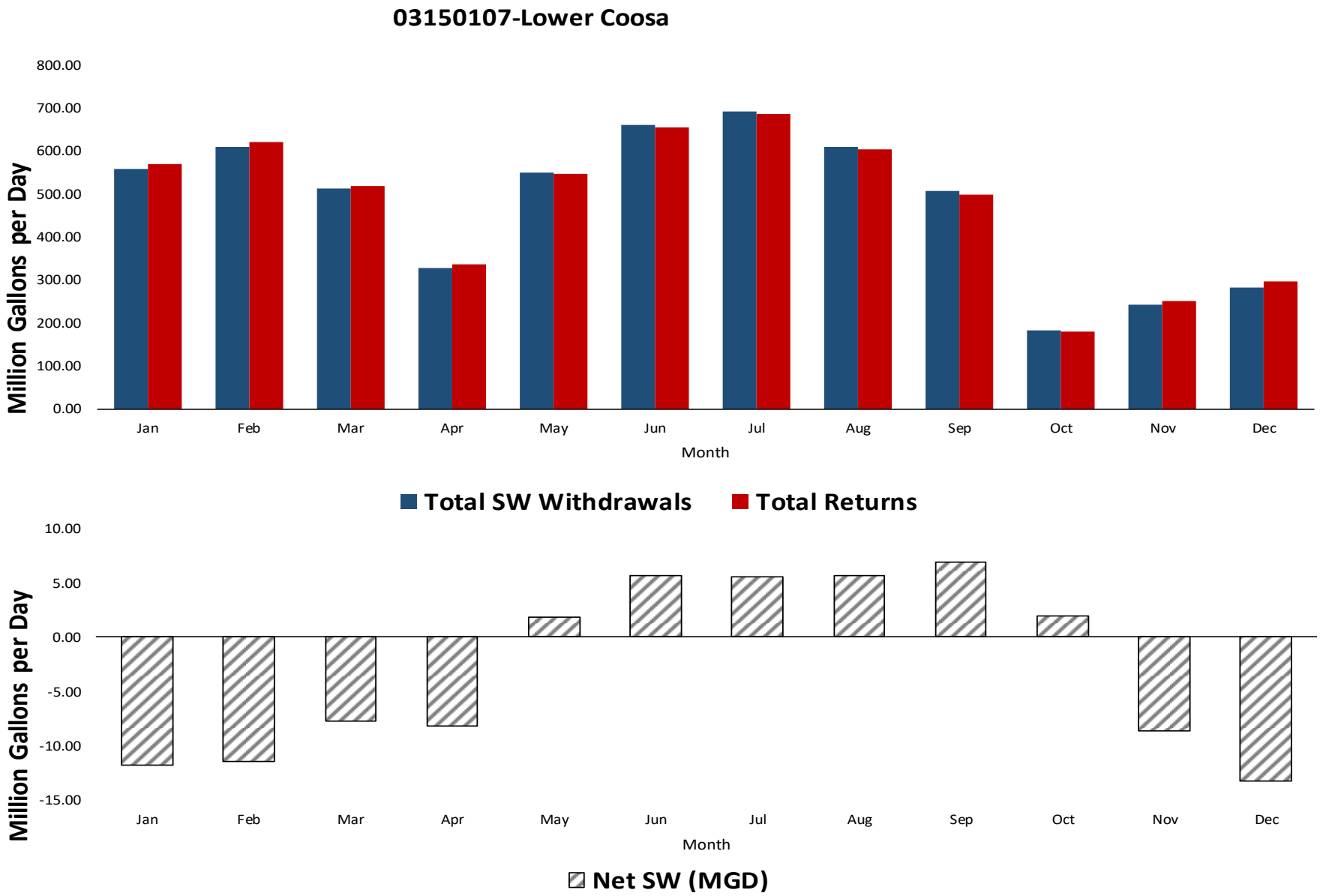
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	8.19	8.31	8.31	9.31	8.61	8.68	8.74	8.87	8.74	8.73	8.53	8.24	8.61
Public Supply	SW	9.64	9.12	9.24	9.44	11.63	12.19	11.38	11.85	11.80	9.98	9.51	9.25	10.43
Industrial/Mining	GW	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Industrial/Mining	SW	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Thermoelectric	SW	546.69	598.92	500.15	314.83	532.89	640.49	672.63	589.29	488.51	167.18	230.78	271.85	462.22
Agriculture	GW	0.42	0.45	0.63	0.80	1.33	2.03	2.13	1.72	1.02	0.86	0.54	0.45	1.04
Agriculture	SW	0.78	1.32	1.92	3.17	5.19	7.01	7.24	7.16	5.62	4.58	2.08	1.37	3.97
Total	**GW**	**9.46**	**9.61**	**9.78**	**10.96**	**10.78**	**11.56**	**11.72**	**11.43**	**10.60**	**10.43**	**9.91**	**9.53**	**10.48**
Total	**SW**	**557.49**	**609.75**	**511.69**	**327.83**	**550.10**	**660.08**	**691.63**	**608.69**	**506.32**	**182.13**	**242.76**	**282.86**	**477.00**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		14.79	12.22	13.63	13.30	9.81	8.85	8.13	8.16	7.61	7.35	11.34	15.11	10.86
Industrial/Mining		11.28	13.87	9.53	9.22	10.01	9.71	9.43	9.23	7.53	10.16	13.20	12.31	10.46
Thermoelectric		543.21	595.10	496.29	313.49	528.42	635.84	668.45	585.60	484.27	162.65	226.88	268.74	459.08
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		**569.28**	**621.18**	**519.46**	**336.01**	**548.24**	**654.40**	**686.02**	**602.99**	**499.41**	**180.16**	**251.42**	**296.15**	**480.39**

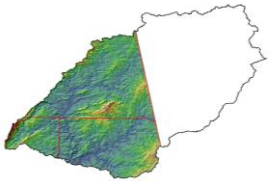
03150107-Lower Coosa

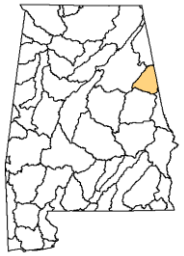
Total SW Withdrawals	SW	557.49	609.75	511.69	327.83	550.10	660.08	691.63	608.69	506.32	182.13	242.76	282.86	477.00
Total GW Withdrawals	GW	9.46	9.61	9.78	10.96	10.78	11.56	11.72	11.43	10.60	10.43	9.91	9.53	10.48
Withdrawal Total		566.95	619.36	521.48	338.78	560.88	671.63	703.35	620.11	516.92	192.55	252.68	292.39	487.48
Total Returns		**569.28**	**621.18**	**519.46**	**336.01**	**548.24**	**654.40**	**686.02**	**602.99**	**499.41**	**180.16**	**251.42**	**296.15**	**480.39**
Net SW (MGD)	**SW**	**-11.79**	**-11.43**	**-7.76**	**-8.18**	**1.87**	**5.68**	**5.61**	**5.69**	**6.91**	**1.96**	**-8.66**	**-13.29**	**-3.39**


03150107-Lower Coosa
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
5.00
0.00
-5.00
-10.00
-15.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150108-Upper Tallapoosa





Area (Thousand Acres)	744
Estimated Population (2015)	21,258
Subregion:	Alabama

2015 Demands

Withdrawals

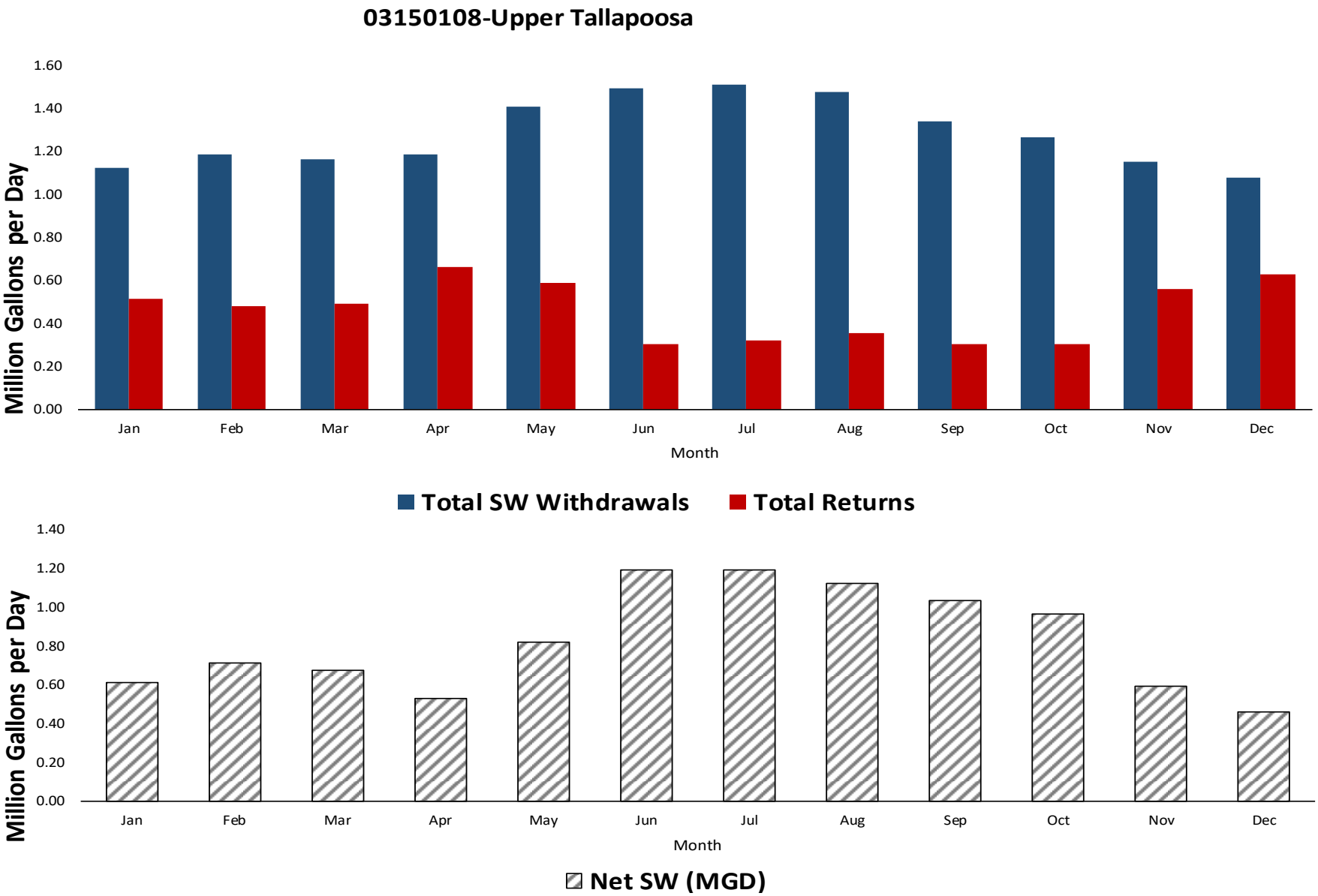
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Public Supply	SW	0.82	0.86	0.81	0.81	0.96	0.97	0.97	0.98	0.92	0.87	0.81	0.75	0.88
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.28	0.27	0.27	0.27	0.27	0.27
Agriculture	SW	0.31	0.33	0.35	0.37	0.44	0.52	0.53	0.50	0.41	0.39	0.34	0.33	0.40
Total	**GW**	**1.22**	**1.22**	**1.22**	**1.22**	**1.23**	**1.24**	**1.24**	**1.24**	**1.23**	**1.23**	**1.22**	**1.22**	**1.23**
Total	**SW**	**1.12**	**1.19**	**1.16**	**1.19**	**1.41**	**1.49**	**1.51**	**1.48**	**1.34**	**1.26**	**1.15**	**1.08**	**1.28**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.51	0.48	0.49	0.66	0.59	0.30	0.32	0.35	0.30	0.30	0.56	0.63	0.46
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		**0.51**	**0.48**	**0.49**	**0.66**	**0.59**	**0.30**	**0.32**	**0.35**	**0.30**	**0.30**	**0.56**	**0.63**	**0.46**

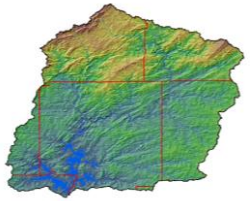
03150108-Upper Tallapoosa

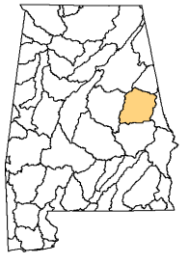
Total SW Withdrawals	SW	1.12	1.19	1.16	1.19	1.41	1.49	1.51	1.48	1.34	1.26	1.15	1.08	1.28
Total GW Withdrawals	GW	1.22	1.22	1.22	1.22	1.23	1.24	1.24	1.24	1.23	1.23	1.22	1.22	1.23
Withdrawal Total		2.34	2.40	2.38	2.41	2.64	2.73	2.75	2.71	2.57	2.49	2.37	2.30	2.51
Total Returns		**0.51**	**0.48**	**0.49**	**0.66**	**0.59**	**0.30**	**0.32**	**0.35**	**0.30**	**0.30**	**0.56**	**0.63**	**0.46**
Net SW (MGD)	**SW**	**0.61**	**0.71**	**0.67**	**0.52**	**0.82**	**1.19**	**1.19**	**1.12**	**1.03**	**0.96**	**0.59**	**0.45**	**0.82**


03150108-Upper Tallapoosa
Million Gallons per Day
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
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150109-Middle Tallapoosa





Area (Thousand Acres)	1,589
Estimated Population (2015)	60,010
Subregion:	Alabama

2015 Demands

Withdrawals

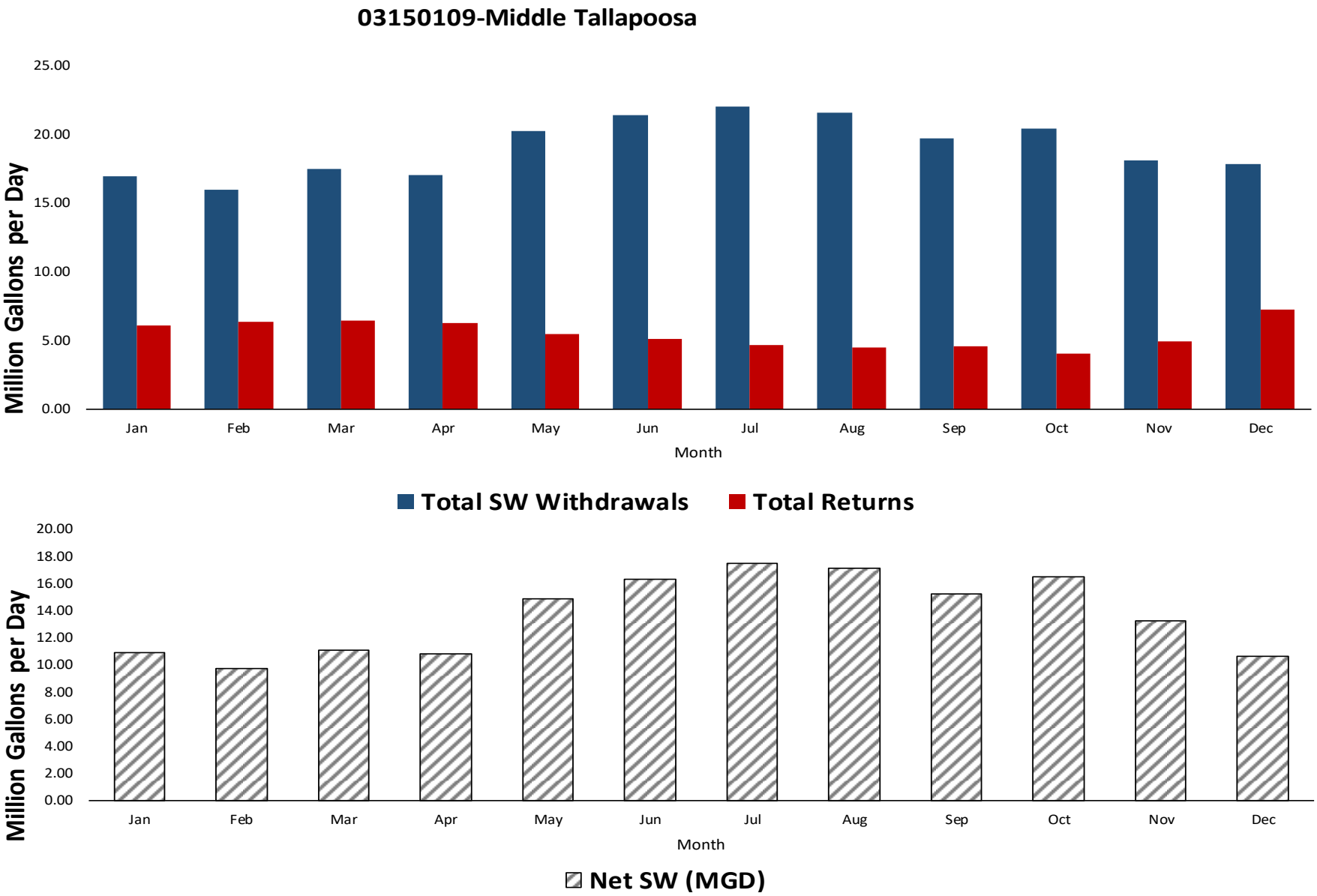
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Public Supply	SW	16.27	15.33	16.61	15.61	18.18	18.71	19.23	18.97	17.78	18.81	17.29	17.12	17.51
Industrial/Mining	GW	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Industrial/Mining	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
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	0.32	0.34	0.36	0.42	0.51	0.52	0.47	0.39	0.37	0.33	0.32	0.39
Agriculture	SW	0.60	0.58	0.78	1.33	1.99	2.62	2.71	2.49	1.86	1.55	0.74	0.62	1.49
Total	**GW**	**1.50**	**1.50**	**1.52**	**1.55**	**1.61**	**1.70**	**1.71**	**1.66**	**1.58**	**1.56**	**1.52**	**1.50**	**1.58**
Total	**SW**	**16.94**	**15.98**	**17.46**	**17.00**	**20.24**	**21.40**	**22.01**	**21.53**	**19.71**	**20.42**	**18.10**	**17.80**	**19.08**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.90	6.20	6.20	6.11	5.21	4.89	4.38	4.20	4.42	3.92	4.72	7.09	5.27
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		0.14	0.11	0.17	0.14	0.22	0.21	0.22	0.22	0.14	0.08	0.16	0.13	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		**6.04**	**6.31**	**6.37**	**6.25**	**5.43**	**5.10**	**4.60**	**4.42**	**4.56**	**4.00**	**4.88**	**7.21**	**5.43**

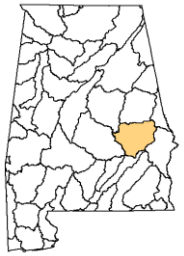
03150109-Middle Tallapoosa

Total SW Withdrawals	SW	16.94	15.98	17.46	17.00	20.24	21.40	22.01	21.53	19.71	20.42	18.10	17.80	19.08
Total GW Withdrawals	GW	1.50	1.50	1.52	1.55	1.61	1.70	1.71	1.66	1.58	1.56	1.52	1.50	1.58
Withdrawal Total		18.44	17.48	18.98	18.55	21.85	23.10	23.72	23.19	21.29	21.98	19.62	19.31	20.65
Total Returns		**6.04**	**6.31**	**6.37**	**6.25**	**5.43**	**5.10**	**4.60**	**4.42**	**4.56**	**4.00**	**4.88**	**7.21**	**5.43**
Net SW (MGD)	**SW**	**10.90**	**9.67**	**11.09**	**10.75**	**14.81**	**16.30**	**17.41**	**17.11**	**15.15**	**16.42**	**13.22**	**10.59**	**13.64**


03150109-Middle Tallapoosa
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)

Subbasin number - Subbasin name

03150110-Lower Tallapoosa



Area (Thousand Acres)	1,702
Estimated Population (2015)	188,636
Subregion:	Alabama

2015 Demands

Withdrawals

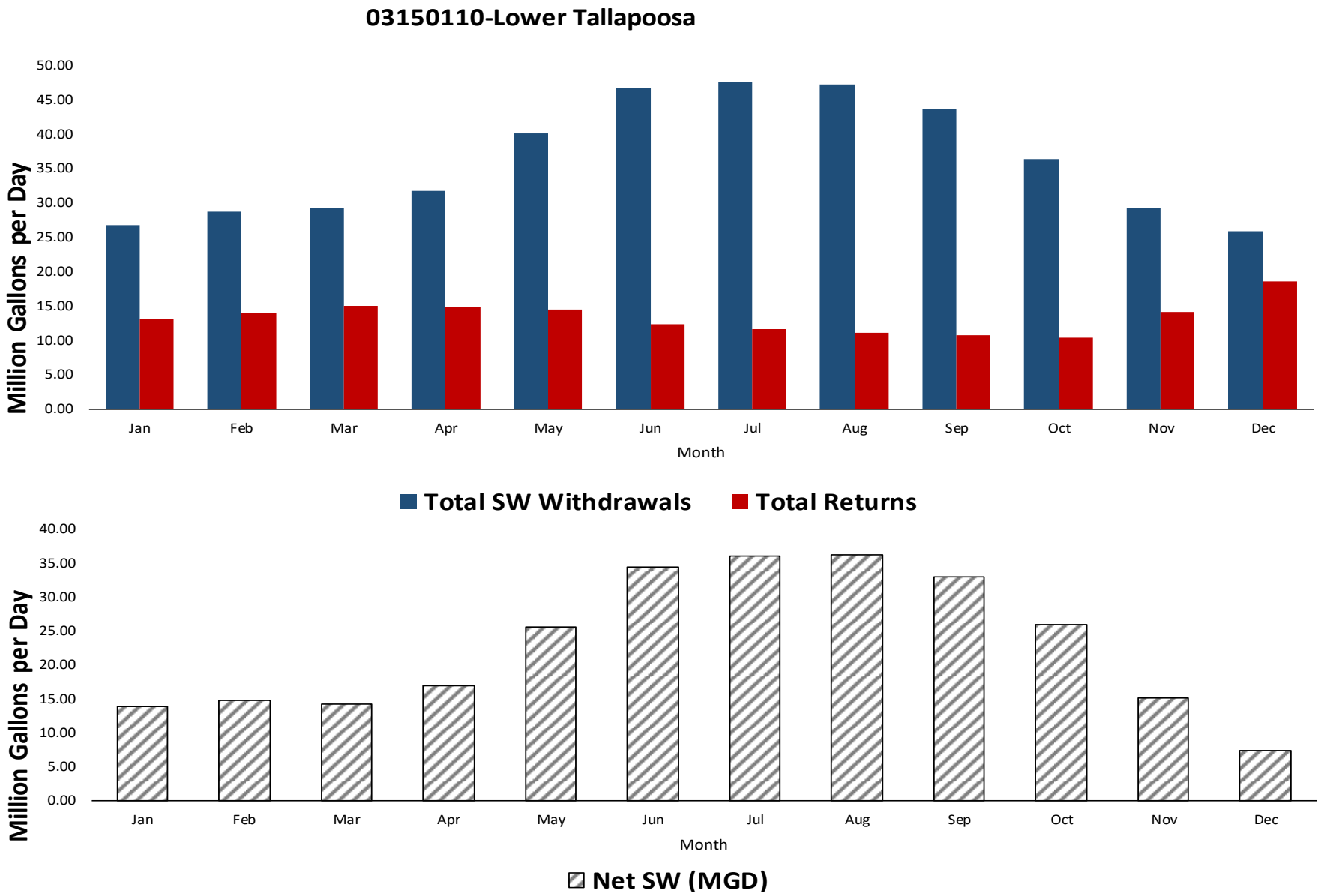
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	6.93	4.61	4.71	4.77	4.83	4.93	6.05	6.21	6.74	6.60	5.25	6.14	5.66
Public Supply	SW	24.69	24.95	24.35	24.72	28.94	32.05	32.58	31.68	30.87	25.69	23.81	22.22	27.22
Industrial/Mining	GW	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
Industrial/Mining	SW	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
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	1.86	2.30	2.70	3.24	4.55	6.16	6.40	6.13	5.12	4.61	3.03	2.38	4.05
Agriculture	SW	1.12	2.69	3.88	6.02	10.12	13.62	14.07	14.47	11.77	9.59	4.46	2.73	7.91
Total	**GW**	**10.77**	**8.89**	**9.39**	**9.99**	**11.36**	**13.07**	**14.43**	**14.33**	**13.83**	**13.20**	**10.26**	**10.50**	**11.69**
Total	**SW**	**26.76**	**28.60**	**29.18**	**31.70**	**40.01**	**46.63**	**47.61**	**47.11**	**43.59**	**36.24**	**29.22**	**25.90**	**36.09**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		12.99	13.92	15.03	14.82	14.46	12.36	11.57	11.01	10.66	10.40	14.08	18.54	13.32
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		**12.99**	**13.92**	**15.03**	**14.82**	**14.46**	**12.36**	**11.57**	**11.01**	**10.66**	**10.40**	**14.08**	**18.54**	**13.32**

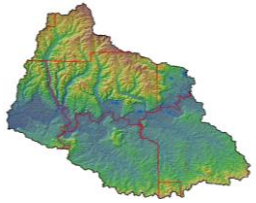
03150110-Lower Tallapoosa

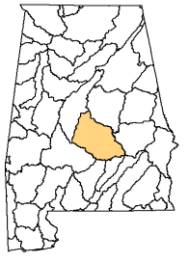
Total SW Withdrawals	SW	26.76	28.60	29.18	31.70	40.01	46.63	47.61	47.11	43.59	36.24	29.22	25.90	36.09
Total GW Withdrawals	GW	10.77	8.89	9.39	9.99	11.36	13.07	14.43	14.33	13.83	13.20	10.26	10.50	11.69
Withdrawal Total		37.53	37.49	38.58	41.69	51.38	59.70	62.04	61.44	57.43	49.44	39.48	36.40	47.78
Total Returns		**12.99**	**13.92**	**15.03**	**14.82**	**14.46**	**12.36**	**11.57**	**11.01**	**10.66**	**10.40**	**14.08**	**18.54**	**13.32**
Net SW (MGD)	**SW**	**13.77**	**14.68**	**14.16**	**16.88**	**25.56**	**34.28**	**36.04**	**36.10**	**32.93**	**25.84**	**15.14**	**7.36**	**22.77**


03150110-Lower Tallapoosa
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
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)

Subbasin number - Subbasin name

03150201-Upper Alabama





Area (Thousand Acres)	2,389
Estimated Population (2015)	322,720
Subregion:	Alabama

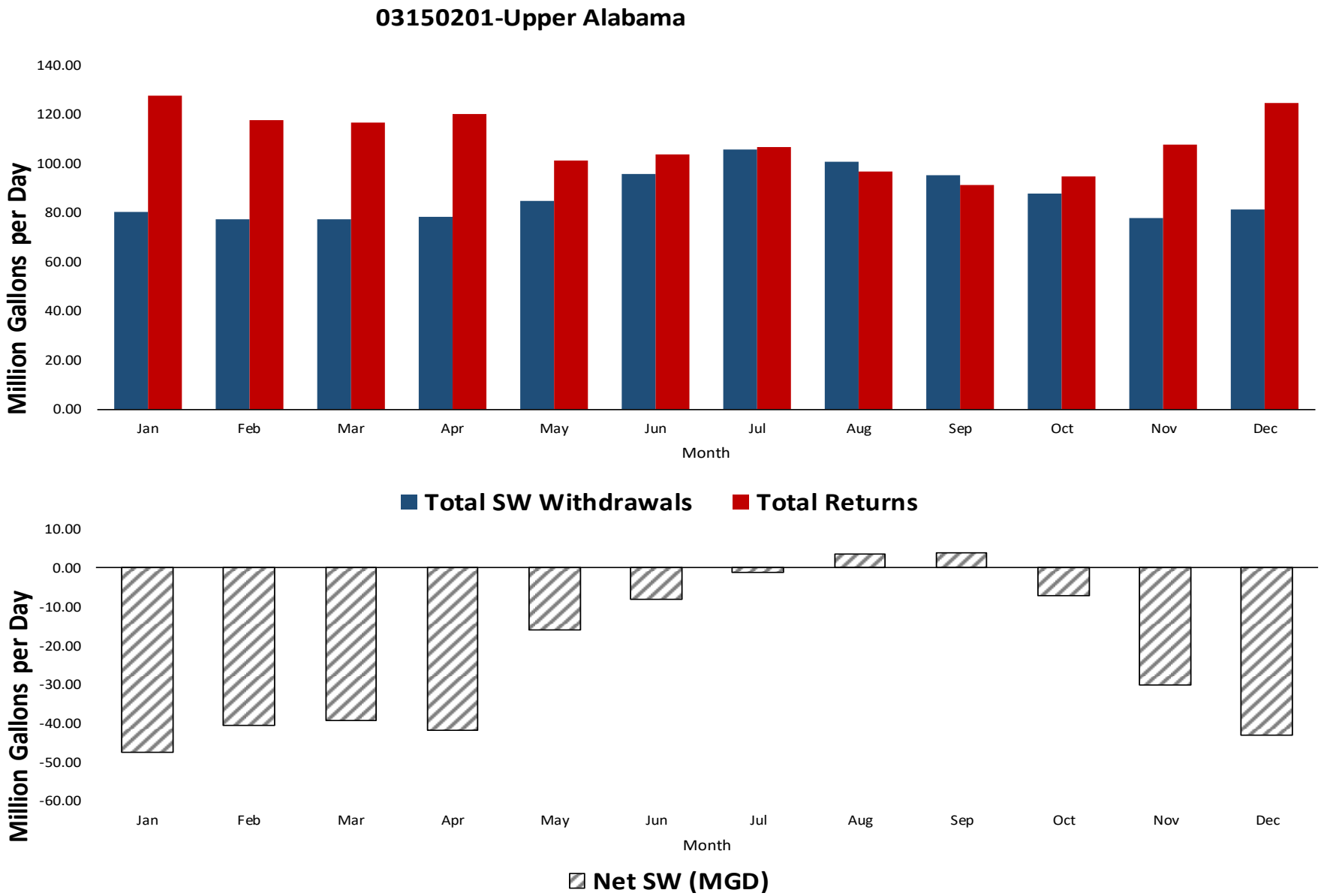
2015 Demands

Withdrawals														
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	31.67	21.13	27.61	28.08	29.31	29.82	29.39	30.94	30.52	27.79	24.77	25.45	28.09
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	11.08	10.42	10.63	10.98	11.12	11.25	11.62	11.61	11.43	11.10	10.64	10.63	11.05
Industrial/Mining	SW	66.29	62.65	63.42	62.23	58.79	64.32	71.87	67.81	66.76	66.11	61.30	65.99	64.83
Thermoelectric	SW	10.15	9.62	7.82	7.67	13.42	14.43	16.49	16.22	15.49	10.61	9.84	10.41	11.86
Agriculture	GW	6.65	7.53	8.10	8.99	10.97	13.31	13.68	13.71	12.55	11.75	8.91	7.69	10.34
Agriculture	SW	3.60	4.90	6.21	8.43	12.67	16.78	17.34	16.51	12.85	10.79	6.51	4.98	10.16
Total	**GW**	**49.40**	**39.08**	**46.34**	**48.06**	**51.40**	**54.38**	**54.69**	**56.26**	**54.50**	**50.63**	**44.32**	**43.77**	**49.48**
Total	**SW**	**80.05**	**77.18**	**77.46**	**78.33**	**84.89**	**95.53**	**105.70**	**100.54**	**95.09**	**87.51**	**77.64**	**81.37**	**86.85**

Returns														
Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		36.72	39.35	37.20	42.13	37.59	36.54	35.24	34.07	32.58	31.86	38.12	52.24	37.80
Industrial/Mining		88.83	76.53	77.71	76.48	61.20	64.62	68.75	59.99	55.84	60.71	67.82	70.14	69.05
Thermoelectric		2.05	1.86	1.95	1.62	2.20	2.33	2.72	2.79	2.76	1.96	1.91	2.20	2.20
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		**127.60**	**117.74**	**116.86**	**120.23**	**100.98**	**103.50**	**106.71**	**96.85**	**91.17**	**94.54**	**107.85**	**124.59**	**109.05**

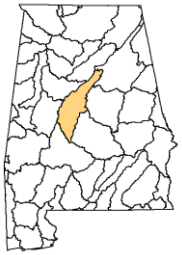
03150201-Upper Alabama

Total SW Withdrawals	SW	80.05	77.18	77.46	78.33	84.89	95.53	105.70	100.54	95.09	87.51	77.64	81.37	86.85
Total GW Withdrawals	GW	49.40	39.08	46.34	48.06	51.40	54.38	54.69	56.26	54.50	50.63	44.32	43.77	49.48
Withdrawal Total		129.45	116.26	123.80	126.39	136.29	149.91	160.39	156.80	149.59	138.15	121.96	125.14	136.33
Total Returns		**127.60**	**117.74**	**116.86**	**120.23**	**100.98**	**103.50**	**106.71**	**96.85**	**91.17**	**94.54**	**107.85**	**124.59**	**109.05**
Net SW (MGD)	**SW**	**-47.55**	**-40.57**	**-39.40**	**-41.90**	**-16.10**	**-7.97**	**-1.01**	**3.69**	**3.92**	**-7.03**	**-30.21**	**-43.21**	**-22.20**


03150201-Upper Alabama
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150202-Cahaba



Area (Thousand Acres)	1,822
Estimated Population (2015)	442,529
Subregion:	Alabama

2015 Demands

Withdrawals

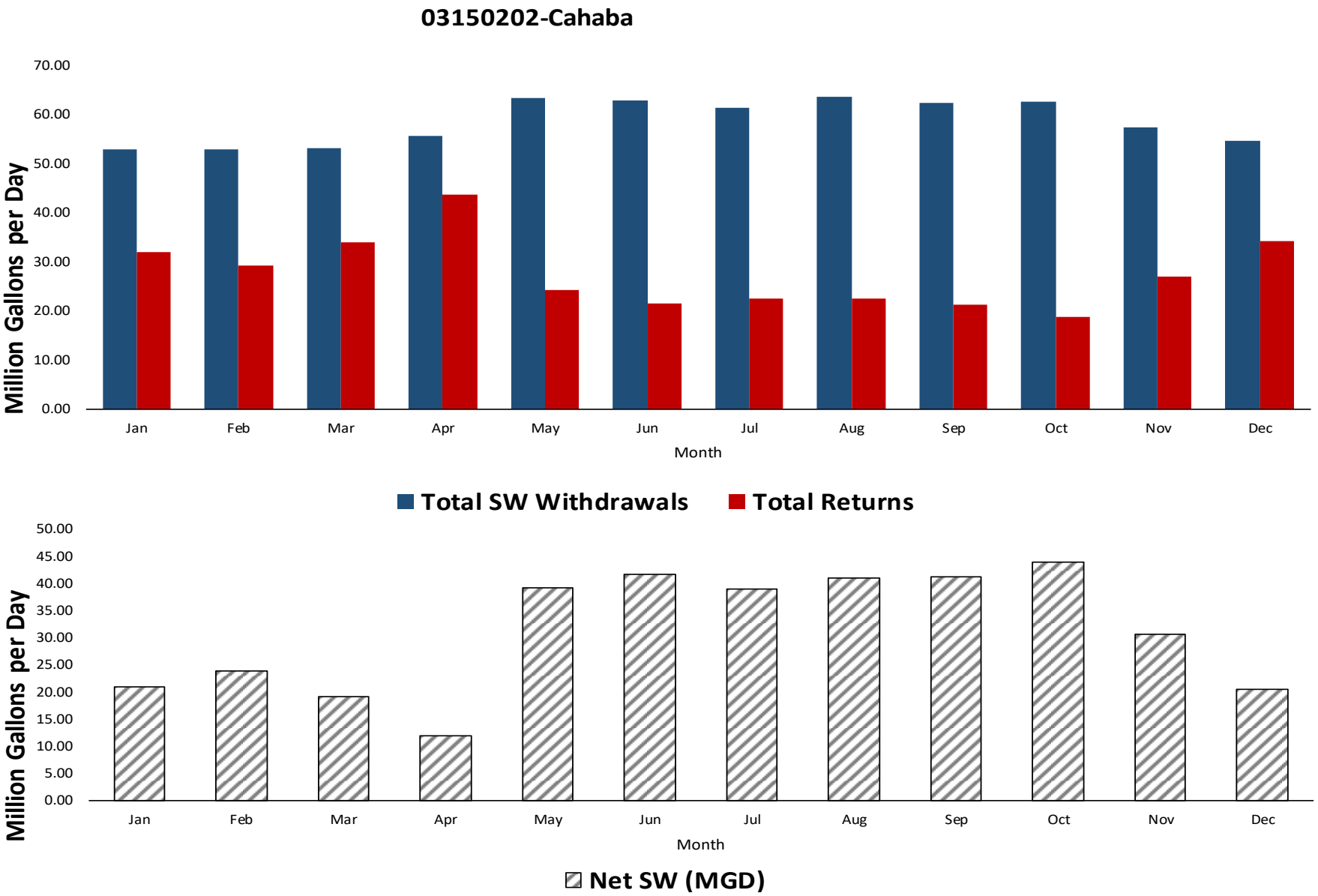
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	26.03	23.36	22.58	23.08	26.96	27.15	27.74	27.69	26.27	26.44	23.52	24.93	25.50
Public Supply	SW	49.81	49.77	48.97	49.30	53.87	51.61	49.54	51.22	50.88	53.29	52.91	51.52	51.07
Industrial/Mining	GW	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Industrial/Mining	SW	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
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	2.48	2.51	2.64	2.77	3.15	3.68	3.75	3.44	2.93	2.81	2.57	2.51	2.94
Agriculture	SW	2.78	2.89	3.85	5.98	9.24	11.02	11.49	12.08	11.18	9.16	4.25	2.98	7.27
Total	**GW**	**29.04**	**26.41**	**25.76**	**26.38**	**30.64**	**31.37**	**32.02**	**31.67**	**29.74**	**29.78**	**26.62**	**27.97**	**28.98**
Total	**SW**	**52.79**	**52.88**	**53.03**	**55.49**	**63.32**	**62.85**	**61.23**	**63.51**	**62.27**	**62.66**	**57.37**	**54.71**	**58.54**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		31.84	29.10	33.82	43.52	24.21	21.30	22.42	22.50	21.16	18.74	26.83	34.17	27.47
Industrial/Mining		0.14	0.09	0.09	0.08	0.06	0.03	0.03	0.05	0.02	0.04	0.07	0.05	0.06
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		**31.98**	**29.19**	**33.91**	**43.60**	**24.26**	**21.33**	**22.46**	**22.54**	**21.18**	**18.78**	**26.90**	**34.21**	**27.53**

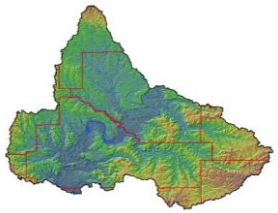
03150202-Cahaba

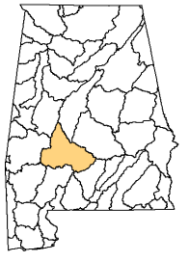
Total SW Withdrawals	SW	52.79	52.88	53.03	55.49	63.32	62.85	61.23	63.51	62.27	62.66	57.37	54.71	58.54
Total GW Withdrawals	GW	29.04	26.41	25.76	26.38	30.64	31.37	32.02	31.67	29.74	29.78	26.62	27.97	28.98
Withdrawal Total		81.84	79.28	78.79	81.87	93.97	94.21	93.26	95.18	92.01	92.44	83.99	82.67	87.52
Total Returns		**31.98**	**29.19**	**33.91**	**43.60**	**24.26**	**21.33**	**22.46**	**22.54**	**21.18**	**18.78**	**26.90**	**34.21**	**27.53**
Net SW (MGD)	**SW**	**20.82**	**23.69**	**19.12**	**11.89**	**39.06**	**41.51**	**38.77**	**40.97**	**41.09**	**43.88**	**30.47**	**20.49**	**31.01**


03150202-Cahaba
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)

Subbasin number - Subbasin name

03150203-Middle Alabama





Area (Thousand Acres)	2,228
Estimated Population (2015)	27,162
Subregion:	Alabama

2015 Demands

Withdrawals

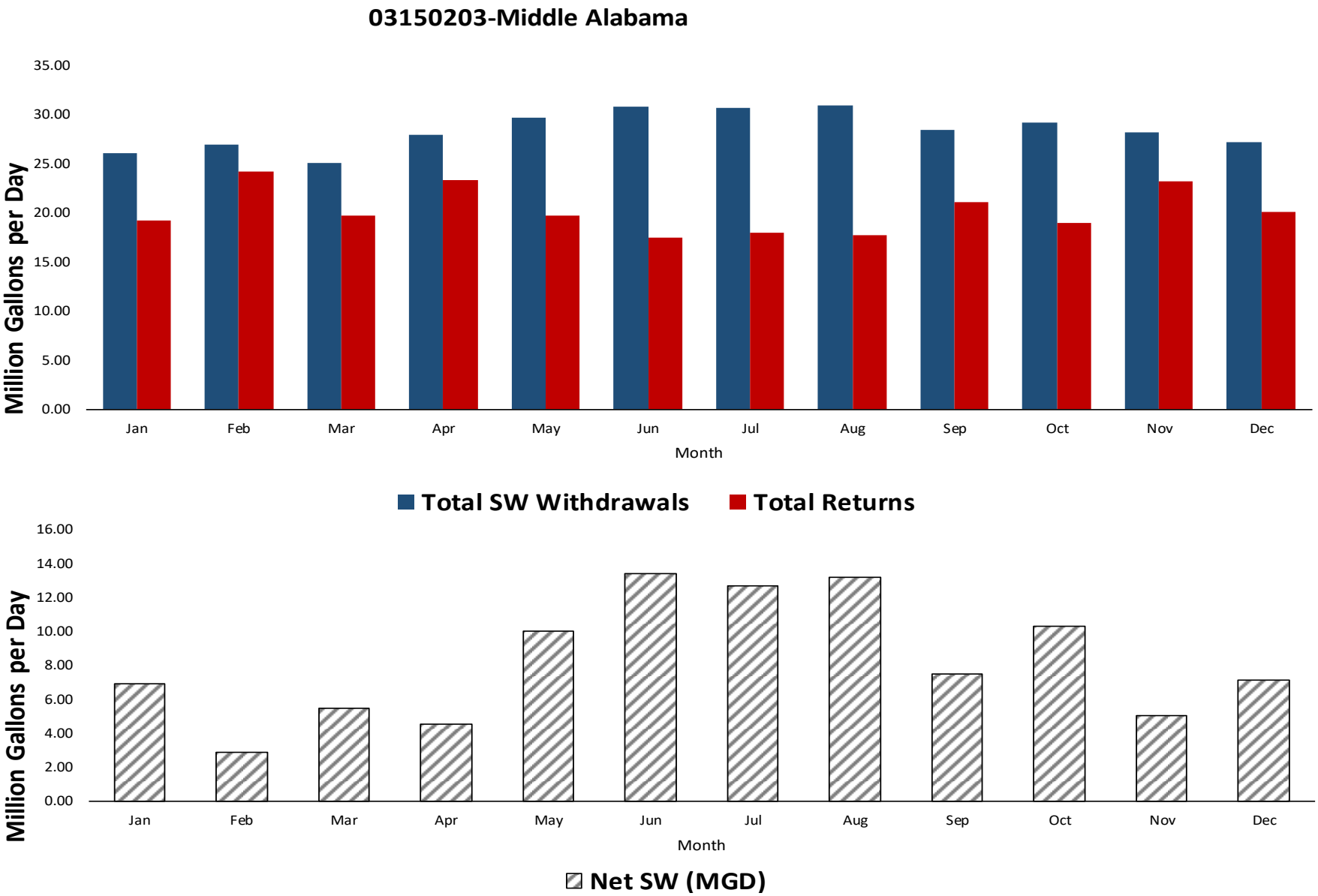
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.65	3.48	3.41	3.26	3.34	3.19	3.23	3.46	3.50	3.38	3.15	3.15	3.35
Public Supply	SW	2.13	1.98	1.98	2.00	1.94	2.02	2.23	1.99	1.90	1.72	1.67	2.00	1.96
Industrial/Mining	GW	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Industrial/Mining	SW	20.19	20.39	18.00	19.97	20.18	19.31	18.79	19.58	19.05	20.72	21.21	20.56	19.82
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	6.01	6.06	6.17	6.28	6.60	7.01	7.07	6.89	6.54	6.43	6.16	6.07	6.44
Agriculture	SW	3.74	4.59	5.11	5.92	7.59	9.48	9.67	9.30	7.52	6.78	5.27	4.62	6.64
Total	**GW**	**10.03**	**9.92**	**9.95**	**9.91**	**10.31**	**10.58**	**10.67**	**10.72**	**10.41**	**10.18**	**9.69**	**9.59**	**10.17**
Total	**SW**	**26.06**	**26.96**	**25.08**	**27.88**	**29.71**	**30.81**	**30.69**	**30.86**	**28.47**	**29.21**	**28.15**	**27.17**	**28.43**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.36	0.14	0.54	0.64	0.38	0.30	0.30	0.33	0.30	0.25	0.55	0.87	0.41
Industrial/Mining		18.80	24.00	19.11	22.71	19.31	17.10	17.70	17.40	20.70	18.70	22.60	19.20	19.78
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		**19.16**	**24.14**	**19.64**	**23.36**	**19.69**	**17.40**	**18.00**	**17.73**	**21.00**	**18.95**	**23.15**	**20.07**	**20.19**

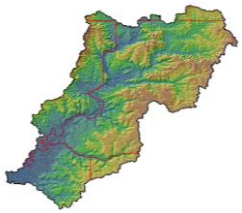
03150203-Middle Alabama

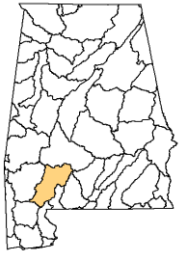
Total SW Withdrawals	SW	26.06	26.96	25.08	27.88	29.71	30.81	30.69	30.86	28.47	29.21	28.15	27.17	28.43
Total GW Withdrawals	GW	10.03	9.92	9.95	9.91	10.31	10.58	10.67	10.72	10.41	10.18	9.69	9.59	10.17
Withdrawal Total		36.10	36.88	35.03	37.78	40.03	41.39	41.36	41.59	38.88	39.40	37.84	36.77	38.60
Total Returns		**19.16**	**24.14**	**19.64**	**23.36**	**19.69**	**17.40**	**18.00**	**17.73**	**21.00**	**18.95**	**23.15**	**20.07**	**20.19**
Net SW (MGD)	**SW**	**6.90**	**2.83**	**5.44**	**4.52**	**10.02**	**13.41**	**12.69**	**13.14**	**7.47**	**10.26**	**5.00**	**7.11**	**8.24**


03150203-Middle Alabama
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03150204-Lower Alabama





Area (Thousand Acres)	1,450
Estimated Population (2015)	25,459
Subregion:	Alabama

2015 Demands

Withdrawals

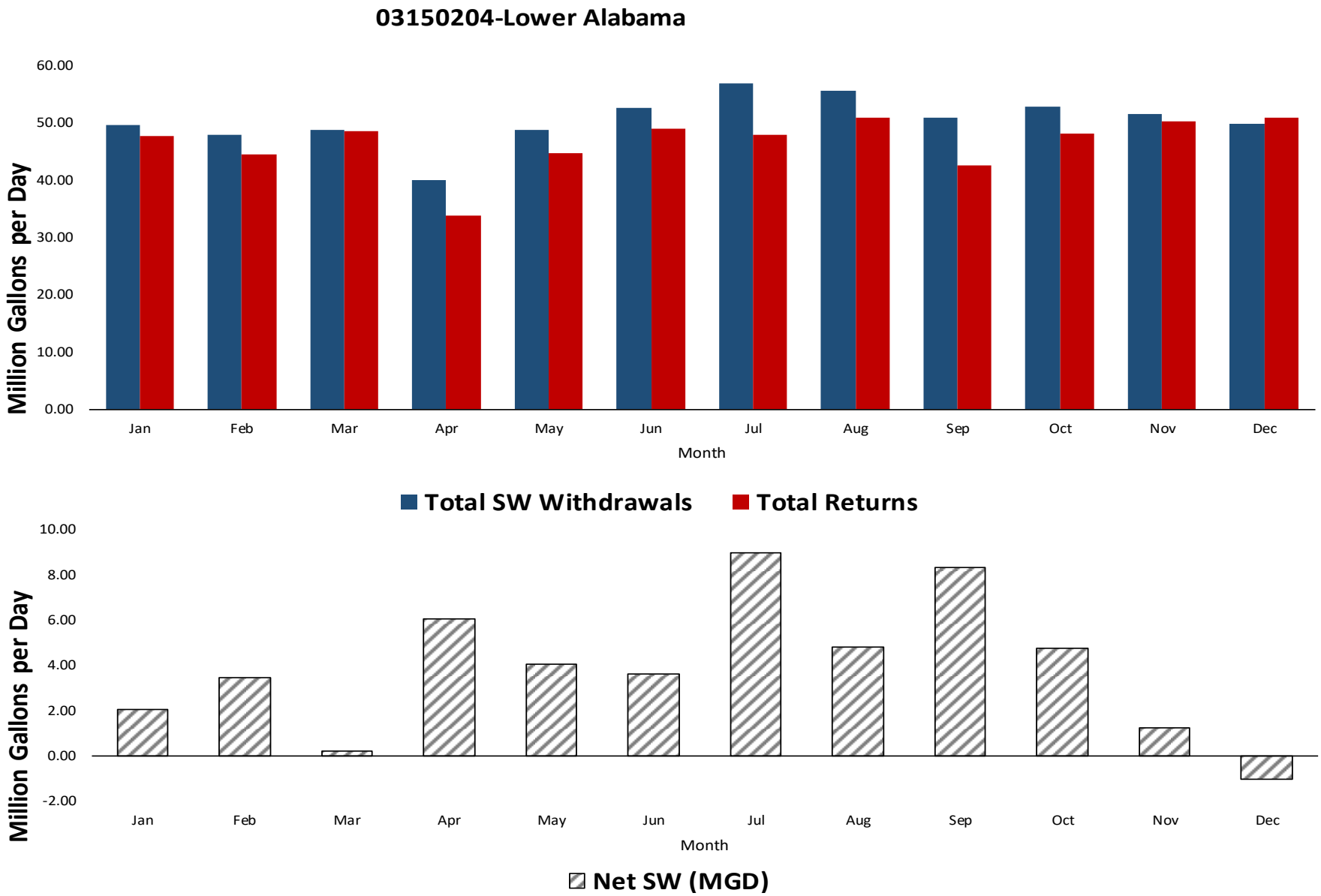
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	2.75	2.70	2.72	2.65	2.68	2.89	2.93	2.81	2.77	2.77	2.57	2.69	2.74
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.53	0.54	0.54	0.49	0.51	0.51	0.51	0.52	0.51	0.51	0.52	0.52	0.52
Industrial/Mining	SW	49.41	47.31	48.02	39.00	47.31	50.91	55.11	53.72	49.21	51.31	50.70	49.31	49.31
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	2.57	3.27	3.75	4.48	6.11	8.06	8.37	8.32	7.30	6.65	4.37	3.40	5.57
Agriculture	SW	0.26	0.55	0.66	0.90	1.31	1.62	1.65	1.86	1.66	1.42	0.80	0.56	1.11
Total	**GW**	**5.85**	**6.51**	**7.01**	**7.61**	**9.30**	**11.46**	**11.81**	**11.65**	**10.59**	**9.93**	**7.46**	**6.60**	**8.83**
Total	**SW**	**49.67**	**47.87**	**48.68**	**39.91**	**48.62**	**52.53**	**56.76**	**55.58**	**50.88**	**52.74**	**51.50**	**49.87**	**50.42**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.67	0.63	0.76	0.90	0.85	1.01	0.77	0.78	0.75	0.70	0.66	1.11	0.80
Industrial/Mining		46.96	43.79	47.72	32.96	43.73	47.91	47.04	50.02	41.84	47.31	49.61	49.83	45.73
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		**47.63**	**44.42**	**48.48**	**33.86**	**44.58**	**48.93**	**47.81**	**50.80**	**42.59**	**48.00**	**50.27**	**50.94**	**46.53**

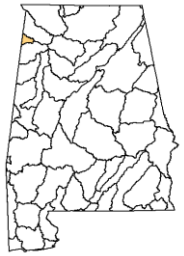
03150204-Lower Alabama

Total SW Withdrawals	SW	49.67	47.87	48.68	39.91	48.62	52.53	56.76	55.58	50.88	52.74	51.50	49.87	50.42
Total GW Withdrawals	GW	5.85	6.51	7.01	7.61	9.30	11.46	11.81	11.65	10.59	9.93	7.46	6.60	8.83
Withdrawal Total		55.52	54.37	55.69	47.52	57.92	64.00	68.57	67.23	61.46	62.67	58.96	56.47	59.25
Total Returns		**47.63**	**44.42**	**48.48**	**33.86**	**44.58**	**48.93**	**47.81**	**50.80**	**42.59**	**48.00**	**50.27**	**50.94**	**46.53**
Net SW (MGD)	**SW**	**2.05**	**3.44**	**0.19**	**6.05**	**4.04**	**3.61**	**8.95**	**4.78**	**8.28**	**4.73**	**1.23**	**-1.07**	**3.90**


03150204-Lower Alabama
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160101-Upper Tombigbee



Area (Thousand Acres)	125
Estimated Population (2015)	2,698
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

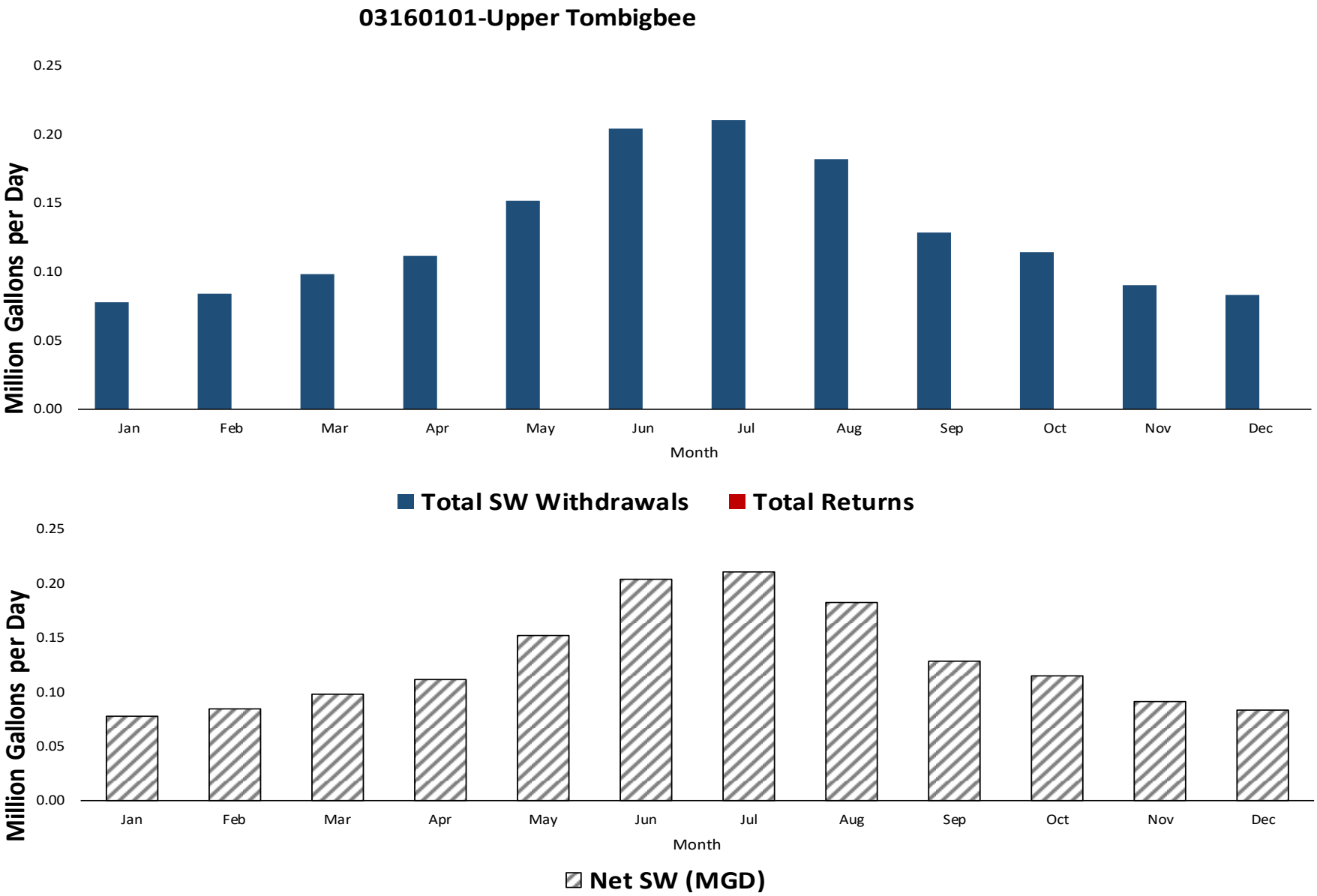
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Industrial/Mining	SW	0.01	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	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.05
Agriculture	SW	0.06	0.07	0.08	0.10	0.14	0.19	0.20	0.17	0.11	0.10	0.08	0.07	0.11
Total	**GW**	**0.16**	**0.16**	**0.16**	**0.16**	**0.17**	**0.18**	**0.18**	**0.18**	**0.16**	**0.16**	**0.16**	**0.16**	**0.17**
Total	**SW**	**0.08**	**0.08**	**0.10**	**0.11**	**0.15**	**0.20**	**0.21**	**0.18**	**0.13**	**0.11**	**0.09**	**0.08**	**0.13**

Returns

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**

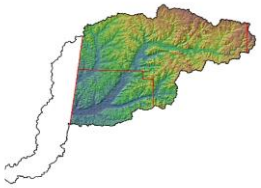
03160101-Upper Tombigbee

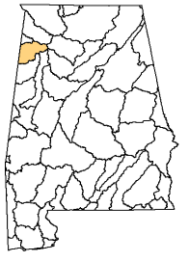
Total SW Withdrawals	SW	0.08	0.08	0.10	0.11	0.15	0.20	0.21	0.18	0.13	0.11	0.09	0.08	0.13
Total GW Withdrawals	GW	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.16	0.16	0.16	0.16	0.17
Withdrawal Total		0.24	0.24	0.26	0.27	0.32	0.39	0.39	0.36	0.29	0.28	0.25	0.24	0.29
Total Returns		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Net SW (MGD)	**SW**	**0.08**	**0.08**	**0.10**	**0.11**	**0.15**	**0.20**	**0.21**	**0.18**	**0.13**	**0.11**	**0.09**	**0.08**	**0.13**


03160101-Upper Tombigbee
Million Gallons per Day
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
Million Gallons per Day
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160103-Buttahatchee





Area (Thousand Acres)	666
Estimated Population (2015)	23,219
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

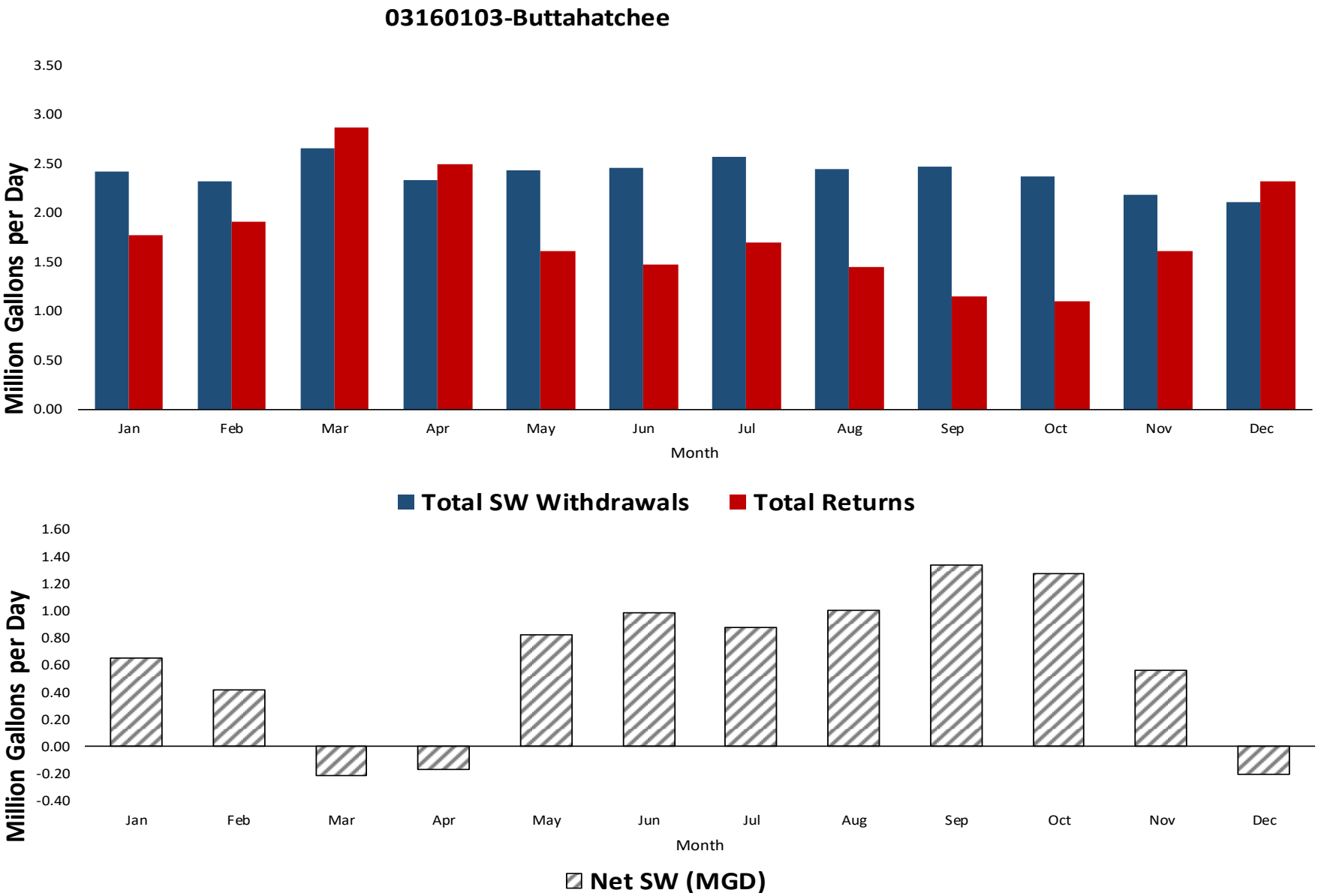
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.02	1.01	1.16	1.02	1.06	1.06	1.10	1.04	1.01	0.98	0.96	0.93	1.03
Public Supply	SW	2.20	2.11	2.42	2.01	1.99	1.94	2.05	1.89	1.96	1.92	1.94	1.90	2.03
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.15	0.17	0.18	0.24	0.33	0.34	0.28	0.19	0.17	0.15	0.14	0.21
Agriculture	SW	0.22	0.21	0.24	0.32	0.44	0.51	0.52	0.56	0.52	0.45	0.23	0.21	0.37
Total	**GW**	**1.17**	**1.15**	**1.33**	**1.20**	**1.30**	**1.39**	**1.44**	**1.32**	**1.21**	**1.15**	**1.11**	**1.07**	**1.24**
Total	**SW**	**2.42**	**2.31**	**2.66**	**2.33**	**2.43**	**2.45**	**2.57**	**2.45**	**2.47**	**2.37**	**2.18**	**2.11**	**2.40**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.77	1.90	2.87	2.49	1.61	1.47	1.70	1.45	1.14	1.09	1.61	2.32	1.78
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		**1.77**	**1.90**	**2.87**	**2.49**	**1.61**	**1.47**	**1.70**	**1.45**	**1.14**	**1.09**	**1.61**	**2.32**	**1.78**

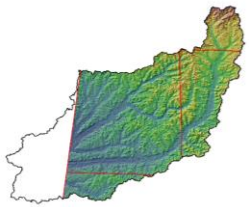
03160103-Buttahatchee

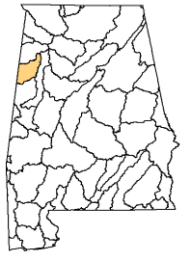
Total SW Withdrawals	SW	2.42	2.31	2.66	2.33	2.43	2.45	2.57	2.45	2.47	2.37	2.18	2.11	2.40
Total GW Withdrawals	GW	1.17	1.15	1.33	1.20	1.30	1.39	1.44	1.32	1.21	1.15	1.11	1.07	1.24
Withdrawal Total		3.58	3.47	3.98	3.53	3.73	3.84	4.01	3.77	3.68	3.52	3.29	3.18	3.63
Total Returns		**1.77**	**1.90**	**2.87**	**2.49**	**1.61**	**1.47**	**1.70**	**1.45**	**1.14**	**1.09**	**1.61**	**2.32**	**1.78**
Net SW (MGD)	**SW**	**0.65**	**0.41**	**-0.22**	**-0.17**	**0.82**	**0.98**	**0.87**	**1.00**	**1.33**	**1.27**	**0.56**	**-0.21**	**0.61**


03160103-Buttahatchee
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
1.60
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)

Subbasin number - Subbasin name

03160105-Luxapallila





Area (Thousand Acres)	662
Estimated Population (2015)	20,222
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

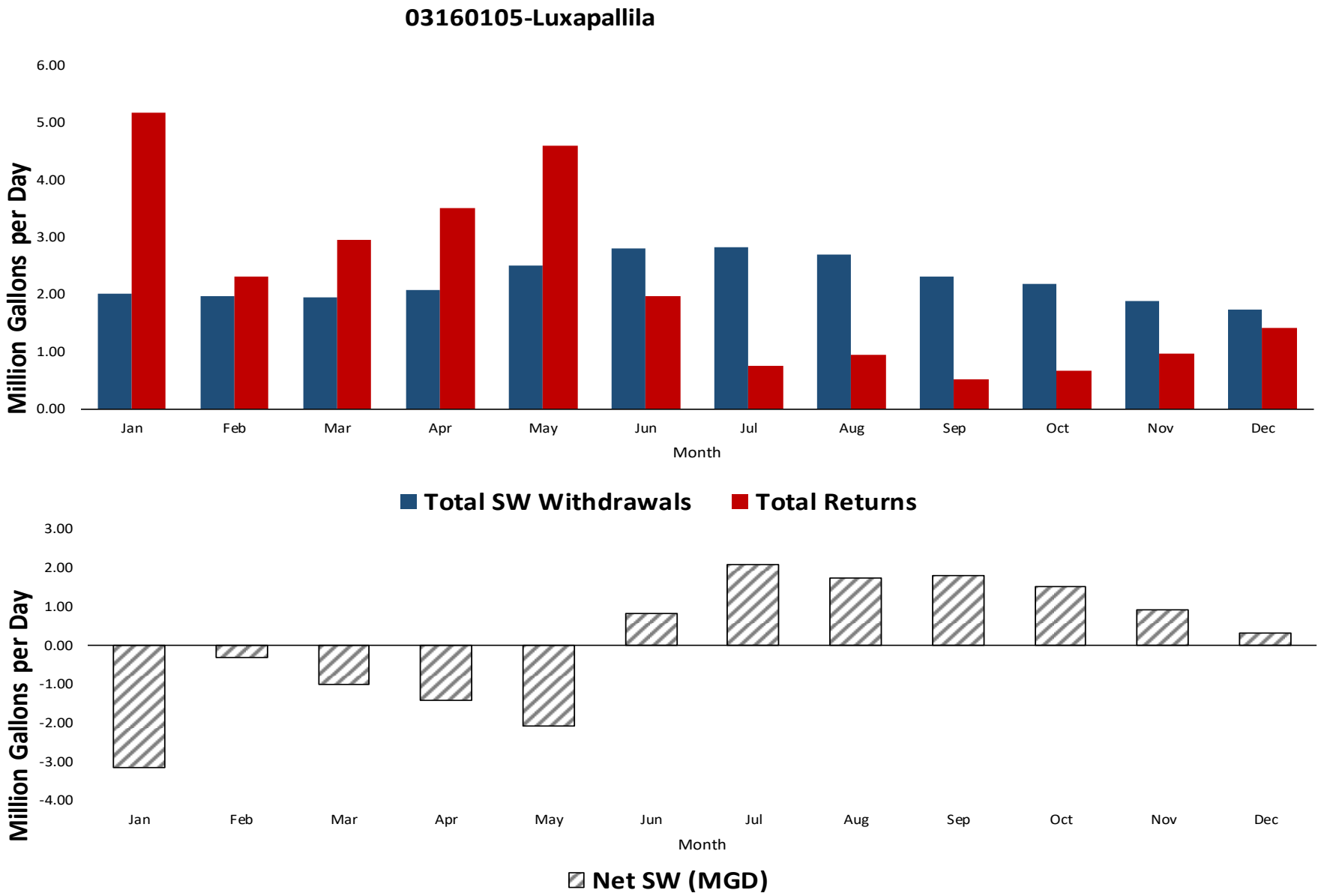
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.86	1.86	1.83	1.82	1.84	1.94	1.93	1.96	1.87	1.87	1.83	1.86	1.87
Public Supply	SW	1.73	1.72	1.60	1.61	1.75	1.77	1.76	1.73	1.62	1.61	1.60	1.47	1.66
Industrial/Mining	GW	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.62	0.10
Industrial/Mining	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
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	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.13	0.12	0.12	0.11	0.11	0.12
Agriculture	SW	0.20	0.18	0.27	0.39	0.66	0.95	0.99	0.88	0.61	0.49	0.21	0.18	0.50
Total	**GW**	**2.17**	**2.11**	**2.01**	**1.93**	**1.97**	**2.07**	**2.06**	**2.09**	**1.99**	**1.99**	**2.14**	**2.59**	**2.10**
Total	**SW**	**2.01**	**1.97**	**1.94**	**2.08**	**2.49**	**2.79**	**2.82**	**2.69**	**2.31**	**2.18**	**1.89**	**1.72**	**2.24**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		4.70	1.83	2.08	3.17	4.38	1.94	0.59	0.77	0.48	0.47	0.69	1.01	1.84
Industrial/Mining		0.46	0.48	0.87	0.33	0.21	0.03	0.16	0.18	0.03	0.19	0.27	0.40	0.30
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		**5.16**	**2.30**	**2.96**	**3.51**	**4.58**	**1.97**	**0.75**	**0.95**	**0.52**	**0.66**	**0.96**	**1.41**	**2.14**

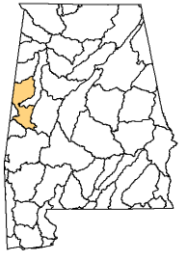
03160105-Luxapallila

Total SW Withdrawals	SW	2.01	1.97	1.94	2.08	2.49	2.79	2.82	2.69	2.31	2.18	1.89	1.72	2.24
Total GW Withdrawals	GW	2.17	2.11	2.01	1.93	1.97	2.07	2.06	2.09	1.99	1.99	2.14	2.59	2.10
Withdrawal Total		4.18	4.08	3.95	4.01	4.46	4.87	4.89	4.78	4.30	4.17	4.02	4.32	4.34
Total Returns		**5.16**	**2.30**	**2.96**	**3.51**	**4.58**	**1.97**	**0.75**	**0.95**	**0.52**	**0.66**	**0.96**	**1.41**	**2.14**
Net SW (MGD)	**SW**	**-3.15**	**-0.33**	**-1.01**	**-1.43**	**-2.09**	**0.83**	**2.08**	**1.74**	**1.79**	**1.52**	**0.92**	**0.32**	**0.10**


03160105-Luxapallila
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160106-Middle Tombigbee-Lubbub



Area (Thousand Acres)	1,272
Estimated Population (2015)	23,447
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

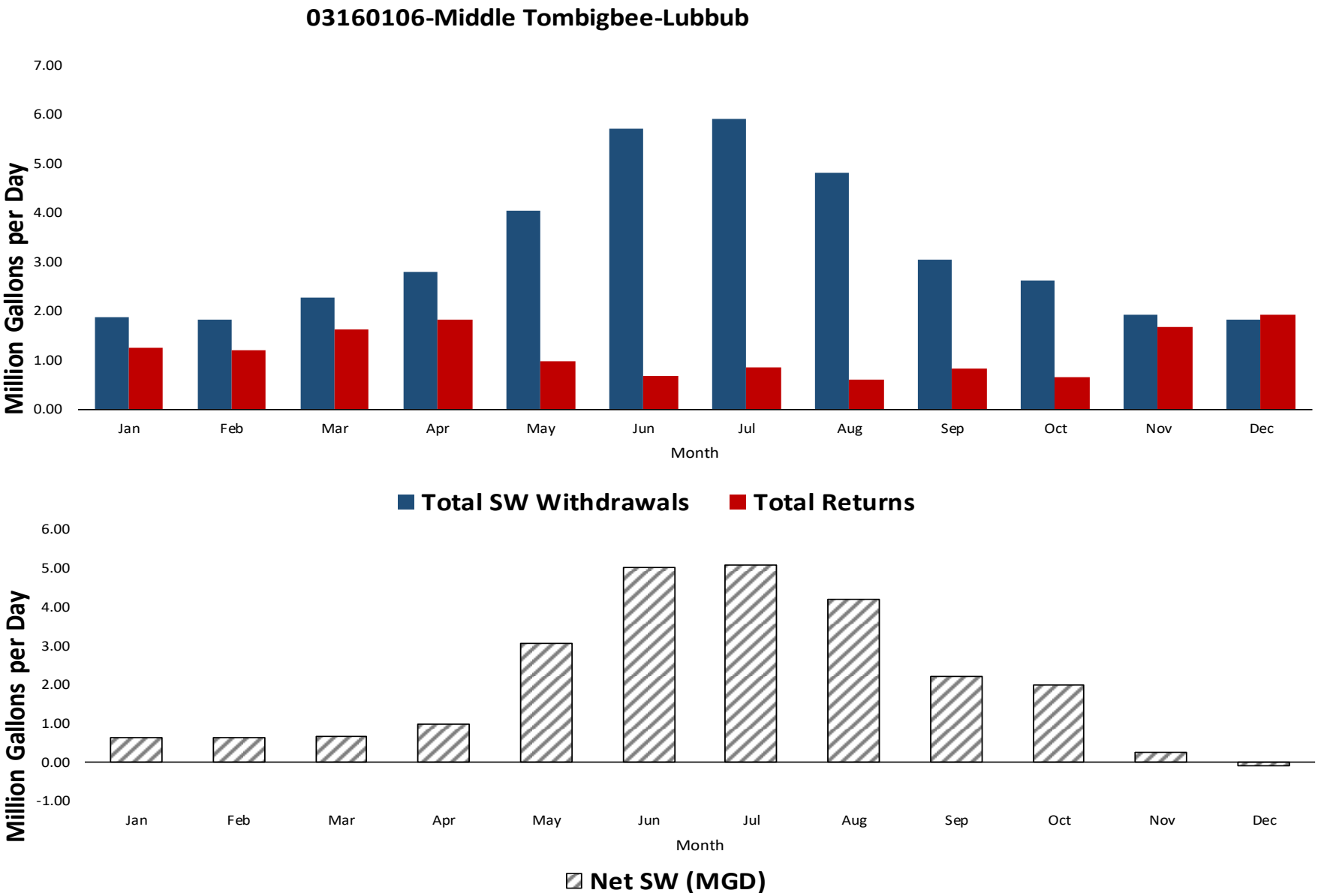
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.02	3.88	4.55	4.12	4.31	4.56	5.55	5.21	5.09	4.91	4.74	4.51	4.63
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Industrial/Mining	SW	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
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	0.78	0.78	0.81	0.83	0.92	1.04	1.06	0.97	0.84	0.82	0.78	0.77	0.87
Agriculture	SW	1.19	1.15	1.59	2.10	3.36	5.02	5.23	4.13	2.36	1.94	1.24	1.14	2.54
Total	**GW**	**5.02**	**4.88**	**5.59**	**5.18**	**5.45**	**5.83**	**6.83**	**6.41**	**6.15**	**5.95**	**5.74**	**5.51**	**5.72**
Total	**SW**	**1.87**	**1.83**	**2.27**	**2.78**	**4.04**	**5.70**	**5.91**	**4.81**	**3.04**	**2.62**	**1.92**	**1.82**	**3.23**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.95	1.08	1.30	1.62	0.86	0.65	0.75	0.57	0.72	0.55	1.42	1.55	1.00
Industrial/Mining		0.30	0.12	0.32	0.20	0.12	0.03	0.09	0.04	0.10	0.09	0.25	0.37	0.17
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		**1.25**	**1.20**	**1.62**	**1.82**	**0.98**	**0.68**	**0.84**	**0.61**	**0.82**	**0.64**	**1.67**	**1.92**	**1.17**

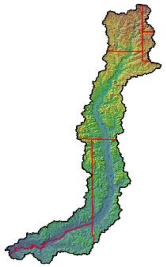
03160106-Middle Tombigbee-Lubbub

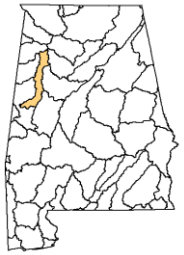
Total SW Withdrawals	SW	1.87	1.83	2.27	2.78	4.04	5.70	5.91	4.81	3.04	2.62	1.92	1.82	3.23
Total GW Withdrawals	GW	5.02	4.88	5.59	5.18	5.45	5.83	6.83	6.41	6.15	5.95	5.74	5.51	5.72
Withdrawal Total		6.89	6.71	7.85	7.96	9.49	11.53	12.74	11.22	9.19	8.57	7.66	7.33	8.95
Total Returns		**1.25**	**1.20**	**1.62**	**1.82**	**0.98**	**0.68**	**0.84**	**0.61**	**0.82**	**0.64**	**1.67**	**1.92**	**1.17**
Net SW (MGD)	**SW**	**0.62**	**0.63**	**0.65**	**0.96**	**3.06**	**5.02**	**5.07**	**4.20**	**2.22**	**1.98**	**0.25**	**-0.10**	**2.06**


03160106-Middle Tombigbee-Lubbub
Million Gallons per Day
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
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)

Subbasin number - Subbasin name

03160107-Sipsey





Area (Thousand Acres)	787
Estimated Population (2015)	22,212
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

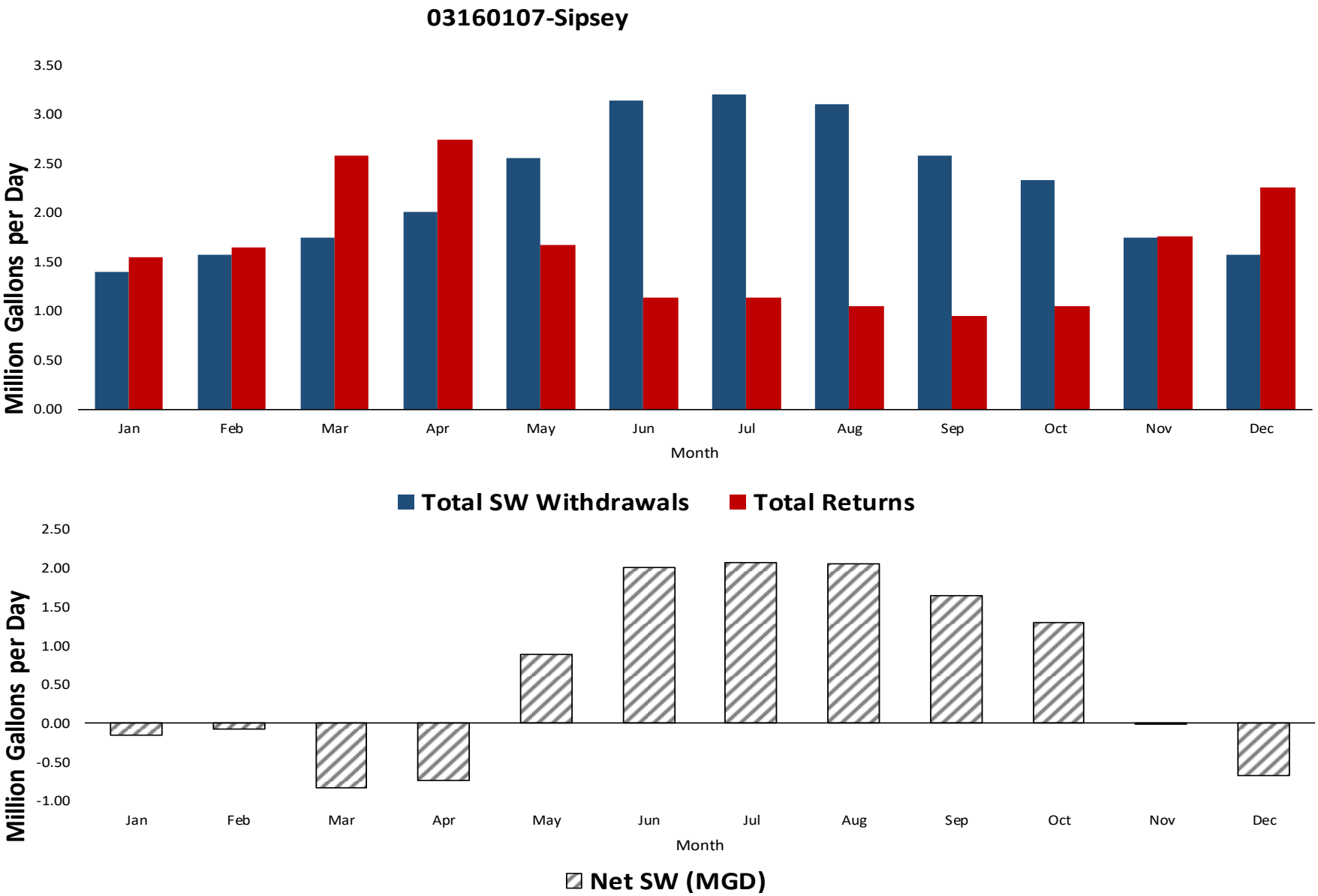
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.14	1.21	1.13	1.13	1.19	1.24	1.21	1.24	2.02	1.95	1.85	1.62	1.41
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	SW	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
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	0.96	0.98	1.02	1.06	1.16	1.30	1.32	1.27	1.17	1.13	1.03	0.99	1.12
Agriculture	SW	1.15	1.32	1.49	1.75	2.31	2.89	2.96	2.86	2.34	2.08	1.50	1.32	2.00
Total	**GW**	**2.11**	**2.19**	**2.16**	**2.20**	**2.36**	**2.55**	**2.54**	**2.52**	**3.19**	**3.09**	**2.88**	**2.61**	**2.53**
Total	**SW**	**1.40**	**1.57**	**1.74**	**2.00**	**2.56**	**3.14**	**3.21**	**3.11**	**2.58**	**2.33**	**1.75**	**1.57**	**2.25**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.55	1.64	2.58	2.74	1.67	1.14	1.14	1.05	0.94	1.04	1.75	2.25	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		**1.55**	**1.64**	**2.58**	**2.74**	**1.67**	**1.14**	**1.14**	**1.05**	**0.94**	**1.04**	**1.75**	**2.25**	**1.62**

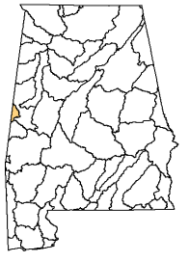
03160107-Sipsey

Total SW Withdrawals	SW	1.40	1.57	1.74	2.00	2.56	3.14	3.21	3.11	2.58	2.33	1.75	1.57	2.25
Total GW Withdrawals	GW	2.11	2.19	2.16	2.20	2.36	2.55	2.54	2.52	3.19	3.09	2.88	2.61	2.53
Withdrawal Total		3.51	3.77	3.90	4.20	4.91	5.69	5.74	5.63	5.77	5.42	4.63	4.19	4.78
Total Returns		**1.55**	**1.64**	**2.58**	**2.74**	**1.67**	**1.14**	**1.14**	**1.05**	**0.94**	**1.04**	**1.75**	**2.25**	**1.62**
Net SW (MGD)	**SW**	**-0.15**	**-0.07**	**-0.83**	**-0.74**	**0.89**	**2.00**	**2.07**	**2.06**	**1.64**	**1.29**	**0.00**	**-0.68**	**0.63**


03160107-Sipsey
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
-0.50
-1.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160108-Noxubee



Area (Thousand Acres)	139
Estimated Population (2015)	1,217
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

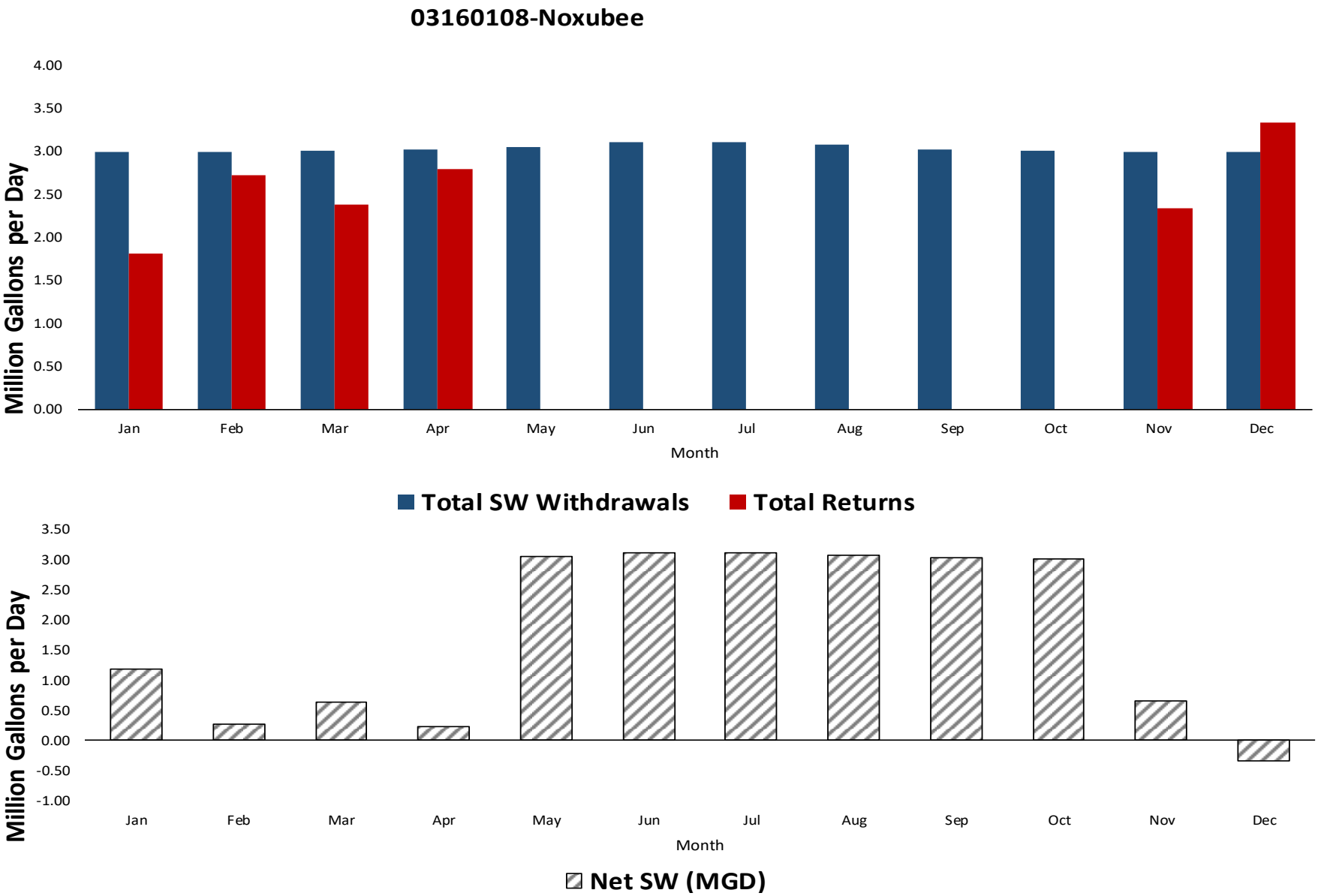
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.38	0.34	0.35	0.34	0.35	0.37	0.36	0.39	0.39	0.37	0.50	0.29	0.37
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Industrial/Mining	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
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	2.48	2.49	2.54	2.58	2.72	2.90	2.93	2.83	2.66	2.62	2.52	2.49	2.65
Agriculture	SW	2.92	2.92	2.94	2.95	2.99	3.04	3.04	3.01	2.95	2.94	2.92	2.92	2.96
Total	**GW**	**3.00**	**2.98**	**3.03**	**3.06**	**3.22**	**3.41**	**3.43**	**3.37**	**3.19**	**3.13**	**3.16**	**2.93**	**3.16**
Total	**SW**	**2.99**	**2.99**	**3.00**	**3.01**	**3.05**	**3.10**	**3.11**	**3.07**	**3.02**	**3.01**	**2.99**	**2.99**	**3.03**

Returns

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		1.81	2.73	2.38	2.80	0.00	0.00	0.00	0.00	0.00	0.00	2.33	3.34	1.28
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		**1.81**	**2.73**	**2.38**	**2.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.33**	**3.34**	**1.28**

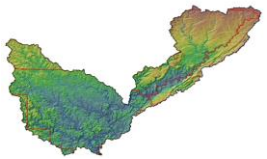
03160108-Noxubee

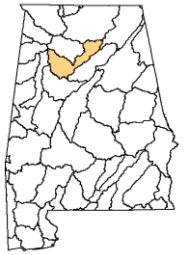
Total SW Withdrawals	SW	2.99	2.99	3.00	3.01	3.05	3.10	3.11	3.07	3.02	3.01	2.99	2.99	3.03
Total GW Withdrawals	GW	3.00	2.98	3.03	3.06	3.22	3.41	3.43	3.37	3.19	3.13	3.16	2.93	3.16
Withdrawal Total		5.99	5.97	6.04	6.08	6.27	6.52	6.54	6.44	6.21	6.14	6.15	5.92	6.19
Total Returns		**1.81**	**2.73**	**2.38**	**2.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.33**	**3.34**	**1.28**
Net SW (MGD)	**SW**	**1.18**	**0.27**	**0.62**	**0.22**	**3.05**	**3.10**	**3.11**	**3.07**	**3.02**	**3.01**	**0.66**	**-0.35**	**1.75**


03160108-Noxubee
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
3.50
3.00
2.50
2.00
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)

Subbasin number - Subbasin name

03160109-Mulberry Fork





Area (Thousand Acres)	1,371
Estimated Population (2015)	124,602
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.46	1.51	1.44	1.30	1.02	1.07	1.09	1.09	1.07	1.04	1.05	1.02	1.18
Public Supply	SW	32.88	48.67	47.67	45.98	50.42	57.81	58.53	56.42	53.93	46.70	45.02	45.16	49.09
Industrial/Mining	GW	0.58	0.48	0.58	1.55	1.60	1.18	0.64	0.16	0.30	1.39	1.34	0.95	0.90
Industrial/Mining	SW	3.15	2.78	2.27	2.44	2.54	2.79	2.98	3.06	3.25	3.06	2.90	2.46	2.81
Thermoelectric	SW	478.20	698.52	604.10	583.88	779.45	792.36	792.85	792.21	780.99	616.60	331.10	719.63	664.34
Agriculture	GW	0.71	0.72	0.76	0.81	0.93	1.09	1.11	1.04	0.90	0.86	0.76	0.73	0.87
Agriculture	SW	0.93	0.94	1.03	1.53	1.84	2.08	2.11	2.06	1.79	1.61	1.10	1.01	1.51
Total	**GW**	**2.75**	**2.72**	**2.78**	**3.66**	**3.55**	**3.34**	**2.84**	**2.29**	**2.27**	**3.29**	**3.15**	**2.69**	**2.94**
Total	**SW**	**515.15**	**750.91**	**655.07**	**633.83**	**834.26**	**855.04**	**856.47**	**853.76**	**839.96**	**667.97**	**380.12**	**768.27**	**717.74**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		18.46	15.59	22.15	21.14	11.17	7.97	8.92	9.42	7.28	6.63	13.14	19.01	13.41
Industrial/Mining		0.88	0.80	1.81	1.06	0.70	0.69	0.70	0.75	0.67	0.74	0.76	0.81	0.86
Thermoelectric		448.37	642.01	573.93	547.73	747.83	750.77	750.77	753.84	738.26	556.62	282.32	695.03	623.96
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		**467.71**	**658.40**	**597.89**	**569.93**	**759.70**	**759.44**	**760.39**	**764.01**	**746.21**	**563.98**	**296.22**	**714.85**	**638.23**

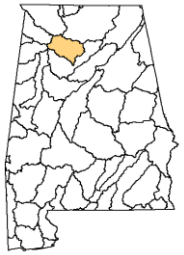
03160109-Mulberry Fork

Total SW Withdrawals	SW	515.15	750.91	655.07	633.83	834.26	855.04	856.47	853.76	839.96	667.97	380.12	768.27	717.74
Total GW Withdrawals	GW	2.75	2.72	2.78	3.66	3.55	3.34	2.84	2.29	2.27	3.29	3.15	2.69	2.94
Withdrawal Total		517.90	753.62	657.85	637.49	837.81	858.38	859.32	856.05	842.23	671.27	383.27	770.96	720.68
Total Returns		**467.71**	**658.40**	**597.89**	**569.93**	**759.70**	**759.44**	**760.39**	**764.01**	**746.21**	**563.98**	**296.22**	**714.85**	**638.23**
Net SW (MGD)	**SW**	**47.44**	**92.51**	**57.18**	**63.90**	**74.56**	**95.61**	**96.08**	**89.75**	**93.74**	**103.99**	**83.90**	**53.42**	**79.51**

03160109-Mulberry Fork
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160110-Sipsey Fork



Area (Thousand Acres)	996
Estimated Population (2015)	53,091
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

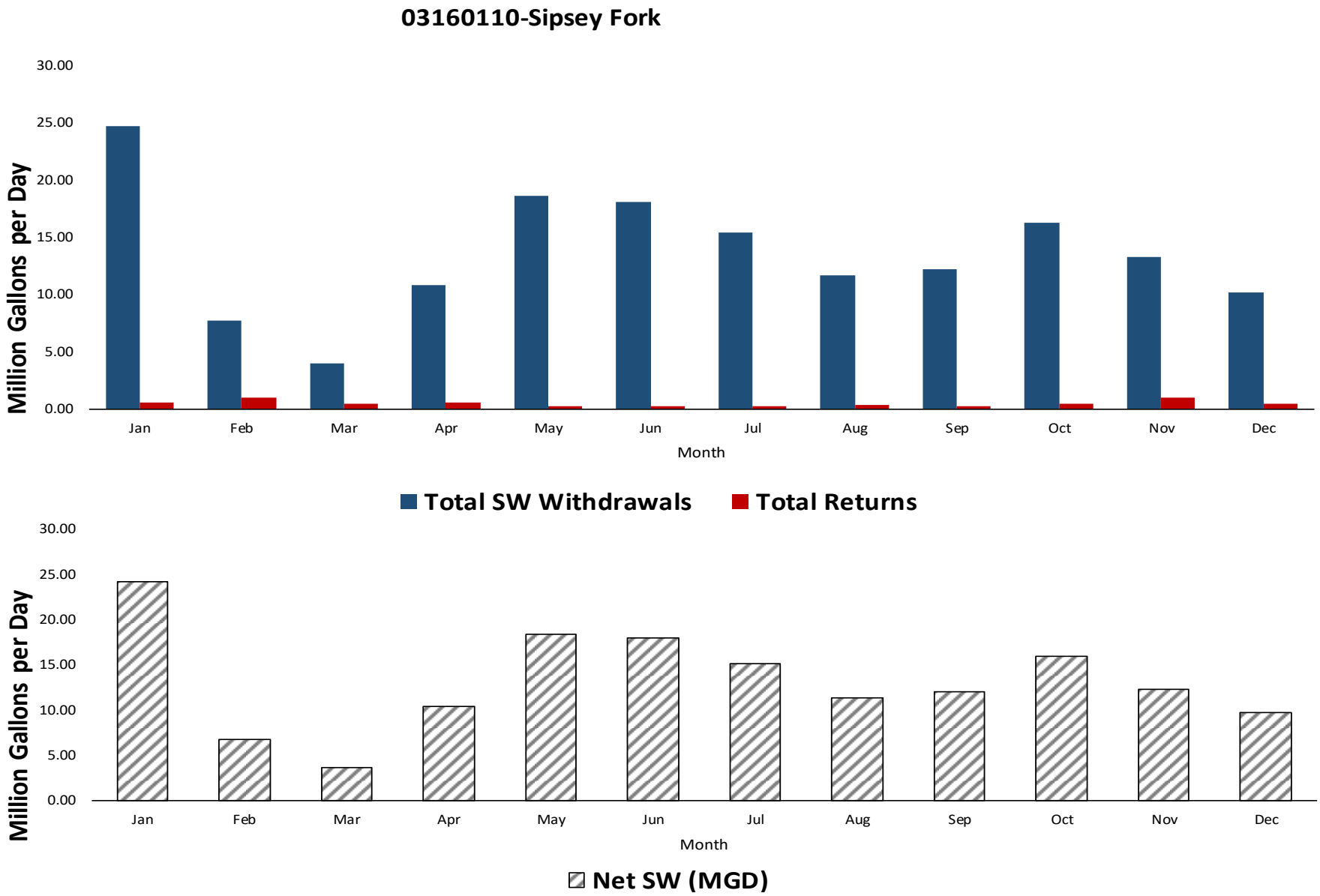
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Public Supply	SW	23.97	6.91	3.03	9.51	16.64	15.53	12.75	9.26	10.44	14.75	12.34	9.42	12.09
Industrial/Mining	GW	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Industrial/Mining	SW	0.03	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	0.56	0.58	0.60	0.62	0.68	0.76	0.77	0.74	0.67	0.65	0.60	0.58	0.65
Agriculture	SW	0.73	0.73	0.92	1.30	1.90	2.55	2.63	2.36	1.72	1.46	0.84	0.74	1.50
Total	**GW**	**1.12**	**1.13**	**1.15**	**1.17**	**1.23**	**1.31**	**1.32**	**1.29**	**1.22**	**1.20**	**1.15**	**1.13**	**1.20**
Total	**SW**	**24.73**	**7.66**	**3.98**	**10.84**	**18.57**	**18.10**	**15.40**	**11.65**	**12.19**	**16.23**	**13.21**	**10.19**	**13.61**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.54	1.00	0.42	0.51	0.23	0.20	0.26	0.36	0.22	0.40	0.96	0.47	0.46
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		**0.54**	**1.00**	**0.42**	**0.51**	**0.23**	**0.20**	**0.26**	**0.36**	**0.22**	**0.40**	**0.96**	**0.47**	**0.46**

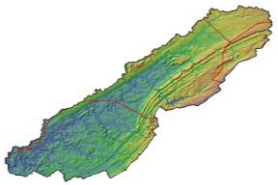
03160110-Sipsey Fork

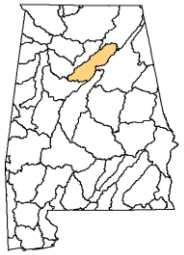
Total SW Withdrawals	SW	24.73	7.66	3.98	10.84	18.57	18.10	15.40	11.65	12.19	16.23	13.21	10.19	13.61
Total GW Withdrawals	GW	1.12	1.13	1.15	1.17	1.23	1.31	1.32	1.29	1.22	1.20	1.15	1.13	1.20
Withdrawal Total		25.85	8.79	5.13	12.01	19.80	19.42	16.73	12.94	13.41	17.44	14.36	11.32	14.81
Total Returns		**0.54**	**1.00**	**0.42**	**0.51**	**0.23**	**0.20**	**0.26**	**0.36**	**0.22**	**0.40**	**0.96**	**0.47**	**0.46**
Net SW (MGD)	**SW**	**24.19**	**6.66**	**3.56**	**10.33**	**18.34**	**17.91**	**15.14**	**11.29**	**11.97**	**15.83**	**12.25**	**9.72**	**13.15**


03160110-Sipsey Fork
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
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)

Subbasin number - Subbasin name

03160111-Locust Fork





Area (Thousand Acres)	1,209
Estimated Population (2015)	309,650
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

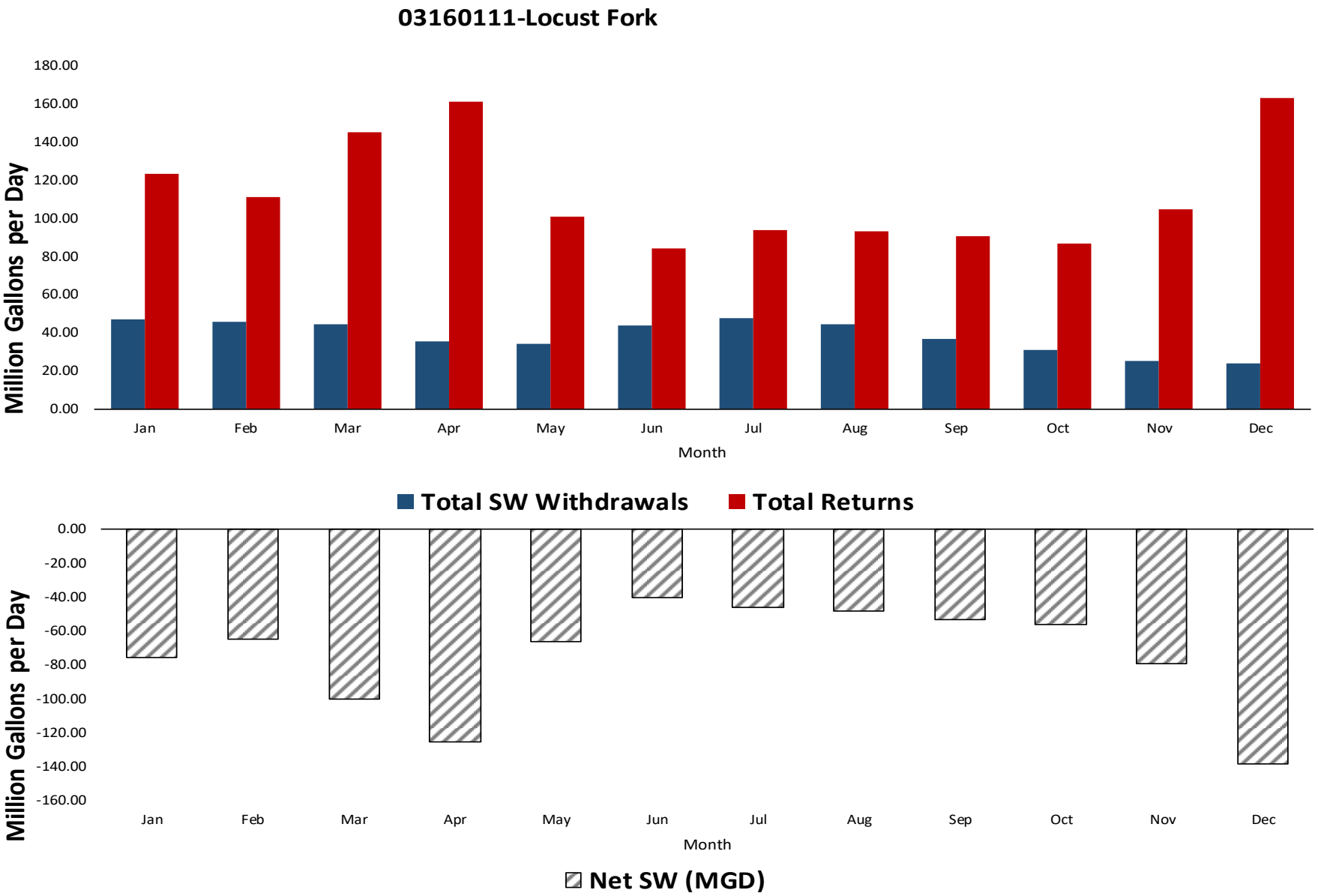
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.17	3.95	4.09	4.01	3.99	4.38	4.50	3.92	3.96	3.98	3.93	3.91	4.07
Public Supply	SW	45.42	44.41	42.84	32.25	29.90	38.96	42.29	39.07	31.36	26.49	23.33	22.23	34.84
Industrial/Mining	GW	0.98	1.06	1.00	1.04	1.22	0.89	1.08	1.46	1.10	1.28	1.24	1.93	1.19
Industrial/Mining	SW	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
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	0.56	0.59	0.63	0.68	0.82	1.00	1.03	0.96	0.81	0.76	0.63	0.59	0.76
Agriculture	SW	1.14	0.96	1.29	2.64	3.89	4.57	4.68	5.12	4.70	3.91	1.37	1.06	2.96
Total	**GW**	**5.70**	**5.59**	**5.71**	**5.72**	**6.02**	**6.27**	**6.60**	**6.33**	**5.87**	**6.02**	**5.80**	**6.43**	**6.01**
Total	**SW**	**46.81**	**45.62**	**44.38**	**35.14**	**34.04**	**43.78**	**47.22**	**44.44**	**36.31**	**30.65**	**24.96**	**23.53**	**38.04**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		110.21	92.15	118.28	145.91	83.14	71.78	79.88	79.59	71.91	70.00	90.74	143.71	96.44
Industrial/Mining		10.45	10.32	10.69	11.53	9.10	9.10	9.63	8.77	8.33	7.22	8.70	11.69	9.63
Thermoelectric		2.47	8.14	16.16	3.53	8.35	3.27	3.79	4.51	9.87	9.60	5.30	7.11	6.84
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		**123.13**	**110.61**	**145.13**	**160.97**	**100.59**	**84.15**	**93.30**	**92.87**	**90.10**	**86.82**	**104.74**	**162.51**	**112.91**

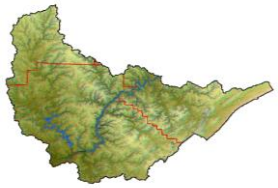
03160111-Locust Fork

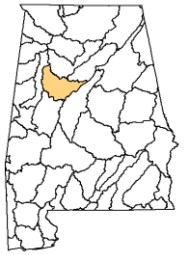
Total SW Withdrawals	SW	46.81	45.62	44.38	35.14	34.04	43.78	47.22	44.44	36.31	30.65	24.96	23.53	38.04
Total GW Withdrawals	GW	5.70	5.59	5.71	5.72	6.02	6.27	6.60	6.33	5.87	6.02	5.80	6.43	6.01
Withdrawal Total		52.51	51.21	50.09	40.86	40.07	50.05	53.82	50.77	42.17	36.66	30.75	29.96	44.05
Total Returns		**123.13**	**110.61**	**145.13**	**160.97**	**100.59**	**84.15**	**93.30**	**92.87**	**90.10**	**86.82**	**104.74**	**162.51**	**112.91**
Net SW (MGD)	**SW**	**-76.32**	**-64.99**	**-100.75**	**-125.84**	**-66.55**	**-40.38**	**-46.08**	**-48.43**	**-53.80**	**-56.17**	**-79.78**	**-138.98**	**-74.87**


03160111-Locust Fork
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-20.00
-40.00
-60.00
-80.00
-100.00
-120.00
-140.00
-160.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160112-Upper Black Warrior





Area (Thousand Acres)	1,245
Estimated Population (2015)	268,796
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

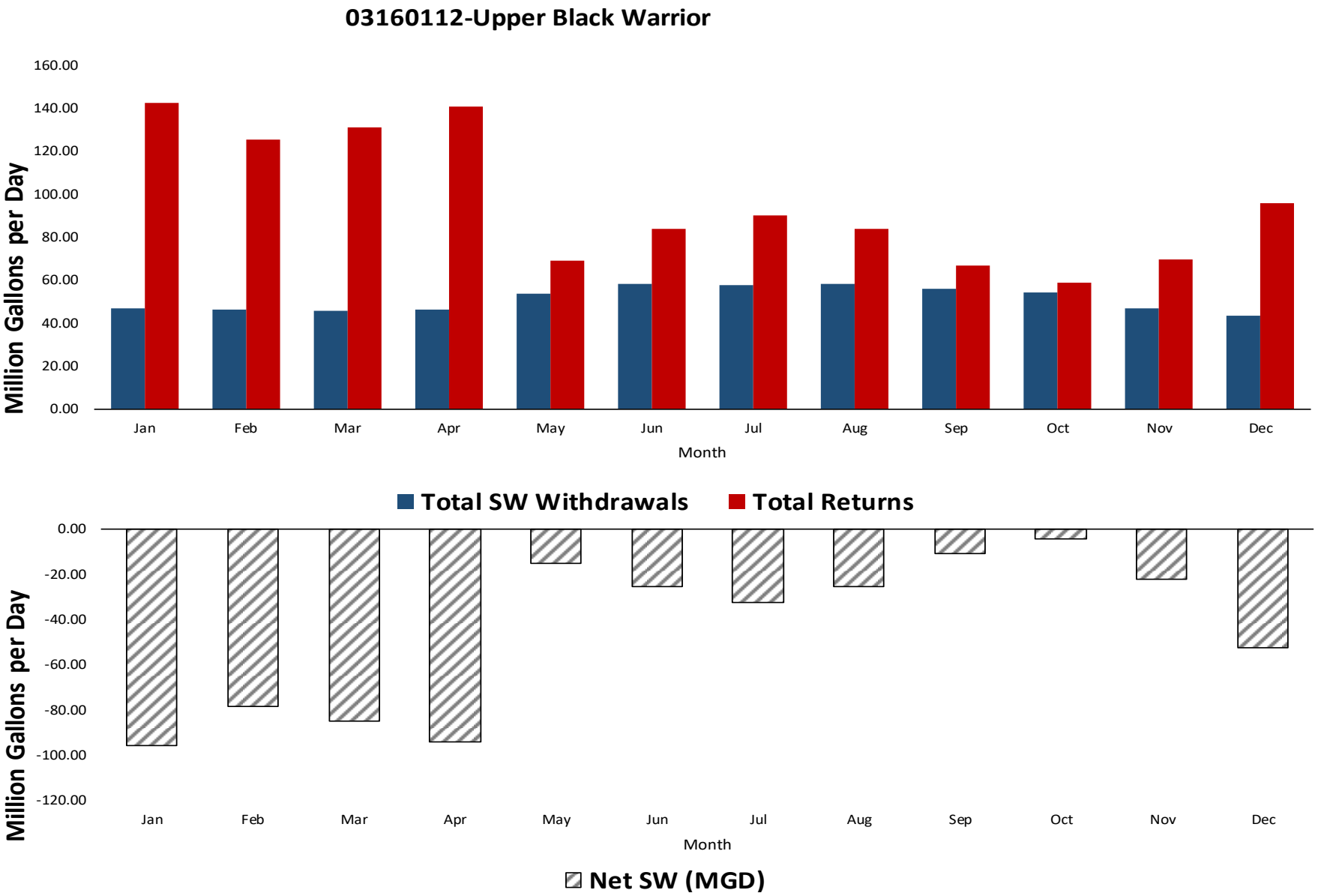
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.17	1.33	1.27	1.38	1.44	1.54	1.51	1.58	1.49	1.41	1.11	1.25	1.37
Public Supply	SW	45.04	44.25	43.02	42.44	47.82	51.18	50.14	50.61	49.21	48.55	43.51	41.12	46.42
Industrial/Mining	GW	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Industrial/Mining	SW	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
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	0.50	0.58	0.67	0.78	1.06	1.40	1.46	1.37	1.13	1.02	0.72	0.59	0.94
Agriculture	SW	0.79	1.49	2.04	3.15	5.01	6.30	6.56	6.69	5.79	4.70	2.52	1.57	3.90
Total	**GW**	**2.04**	**2.28**	**2.31**	**2.53**	**2.86**	**3.31**	**3.34**	**3.32**	**2.99**	**2.80**	**2.19**	**2.22**	**2.69**
Total	**SW**	**46.53**	**46.43**	**45.75**	**46.29**	**53.53**	**58.17**	**57.40**	**57.99**	**55.69**	**53.94**	**46.72**	**43.38**	**51.01**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		100.80	81.56	90.84	106.44	50.03	43.23	49.30	45.58	42.02	39.81	50.76	77.17	64.79
Industrial/Mining		41.88	43.63	39.92	34.13	19.06	40.65	41.00	38.22	24.74	18.68	18.48	18.65	31.59
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		**142.68**	**125.18**	**130.76**	**140.56**	**69.09**	**83.88**	**90.30**	**83.80**	**66.76**	**58.49**	**69.25**	**95.82**	**96.38**

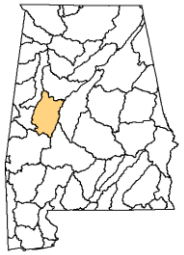
03160112-Upper Black Warrior

Total SW Withdrawals	SW	46.53	46.43	45.75	46.29	53.53	58.17	57.40	57.99	55.69	53.94	46.72	43.38	51.01
Total GW Withdrawals	GW	2.04	2.28	2.31	2.53	2.86	3.31	3.34	3.32	2.99	2.80	2.19	2.22	2.69
Withdrawal Total		48.57	48.71	48.06	48.82	56.39	61.48	60.74	61.31	58.68	56.75	48.91	45.60	53.70
Total Returns		**142.68**	**125.18**	**130.76**	**140.56**	**69.09**	**83.88**	**90.30**	**83.80**	**66.76**	**58.49**	**69.25**	**95.82**	**96.38**
Net SW (MGD)	**SW**	**-96.15**	**-78.75**	**-85.01**	**-94.28**	**-15.57**	**-25.71**	**-32.90**	**-25.81**	**-11.07**	**-4.55**	**-22.53**	**-52.45**	**-45.37**


03160112-Upper Black Warrior
Million Gallons per Day
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)

Subbasin number - Subbasin name

03160113-Lower Black Warrior



Area (Thousand Acres)	1,452
Estimated Population (2015)	120,588
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

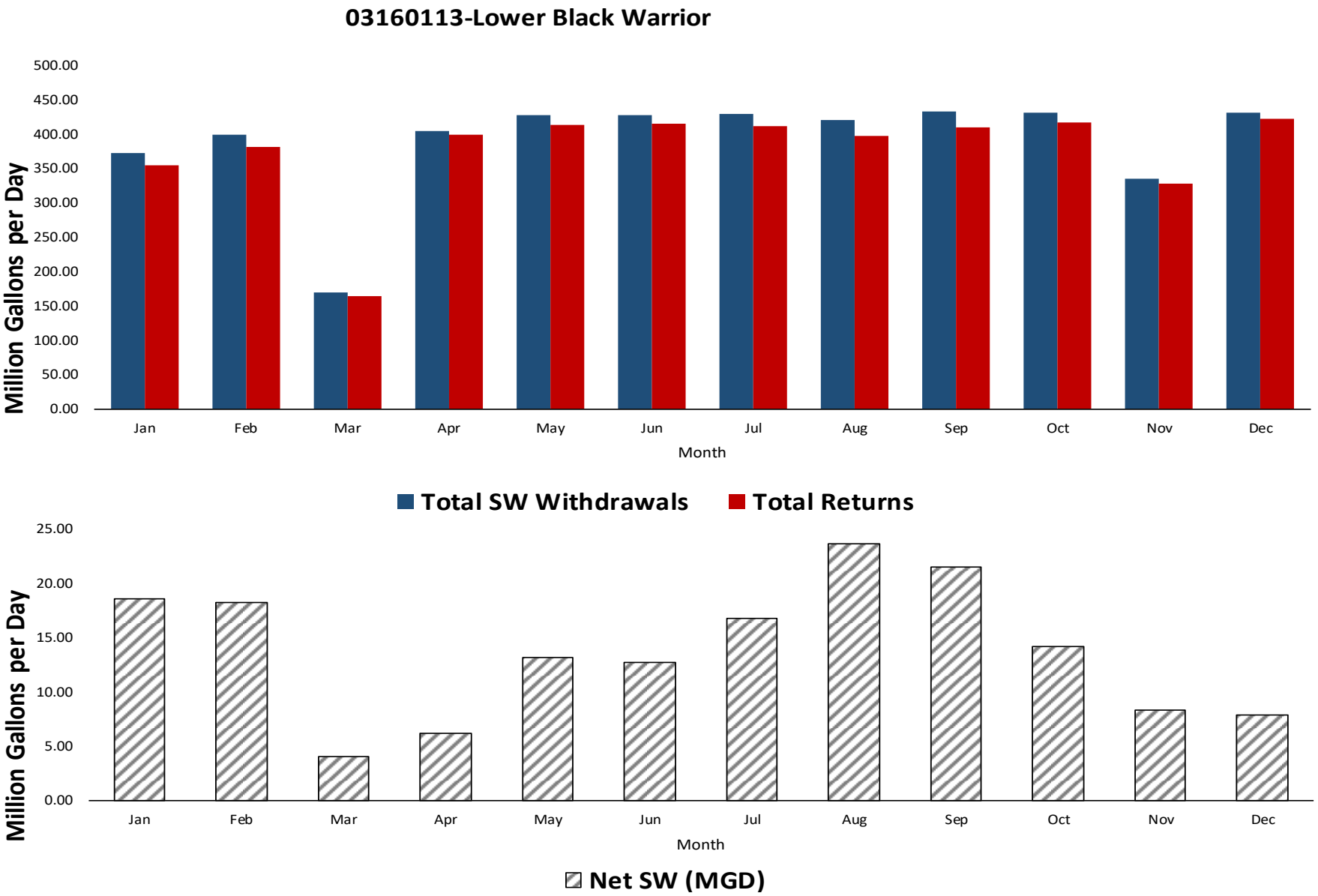
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	6.27	6.41	6.20	6.15	6.32	6.39	6.59	6.82	6.57	6.51	6.21	6.26	6.39
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.45	1.46	1.46	1.47	1.48	1.53	1.52	1.53	1.52	1.46	1.46	1.46	1.49
Industrial/Mining	SW	1.09	1.07	0.95	1.00	1.16	1.15	1.43	1.42	0.47	0.46	0.42	0.45	0.92
Thermoelectric	SW	361.85	387.42	157.19	392.22	413.79	413.64	415.01	406.79	419.41	419.54	324.58	419.89	377.42
Agriculture	GW	11.05	11.08	11.44	11.76	12.80	14.23	14.41	13.53	12.10	11.77	11.20	11.06	12.21
Agriculture	SW	9.76	10.14	10.30	10.97	11.57	12.02	12.06	12.27	11.89	11.52	10.56	10.23	11.11
Total	**GW**	**18.77**	**18.95**	**19.11**	**19.38**	**20.61**	**22.15**	**22.53**	**21.88**	**20.18**	**19.74**	**18.88**	**18.79**	**20.09**
Total	**SW**	**372.70**	**398.63**	**168.44**	**404.19**	**426.53**	**426.81**	**428.49**	**420.48**	**431.76**	**431.53**	**335.56**	**430.57**	**389.46**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		6.34	4.32	6.07	5.68	3.78	4.01	2.84	2.77	2.62	4.31	7.15	7.37	4.77
Industrial/Mining		4.05	3.33	2.84	4.19	2.79	2.99	3.40	3.66	2.16	2.09	2.81	2.76	3.09
Thermoelectric		343.83	372.73	155.58	388.19	406.83	407.09	405.49	390.48	405.49	410.98	317.32	412.59	368.05
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		**354.22**	**380.38**	**164.48**	**398.06**	**413.40**	**414.09**	**411.74**	**396.91**	**410.27**	**417.38**	**327.29**	**422.72**	**375.91**

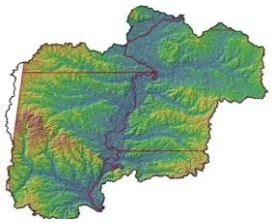
03160113-Lower Black Warrior

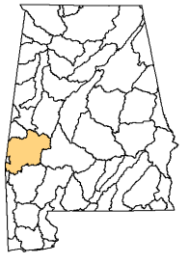
Total SW Withdrawals	SW	372.70	398.63	168.44	404.19	426.53	426.81	428.49	420.48	431.76	431.53	335.56	430.57	389.46
Total GW Withdrawals	GW	18.77	18.95	19.11	19.38	20.61	22.15	22.53	21.88	20.18	19.74	18.88	18.79	20.09
Withdrawal Total		391.47	417.58	187.55	423.58	447.14	448.96	451.02	442.36	451.95	451.27	354.44	449.36	409.55
Total Returns		**354.22**	**380.38**	**164.48**	**398.06**	**413.40**	**414.09**	**411.74**	**396.91**	**410.27**	**417.38**	**327.29**	**422.72**	**375.91**
Net SW (MGD)	**SW**	**18.48**	**18.25**	**3.96**	**6.13**	**13.13**	**12.72**	**16.76**	**23.57**	**21.49**	**14.15**	**8.27**	**7.85**	**13.55**


03160113-Lower Black Warrior
Million Gallons per Day
500.00
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
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)

Subbasin number - Subbasin name

03160201-Middle Tombigbee-Chickasaw





Area (Thousand Acres)	2,043
Estimated Population (2015)	33,975
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

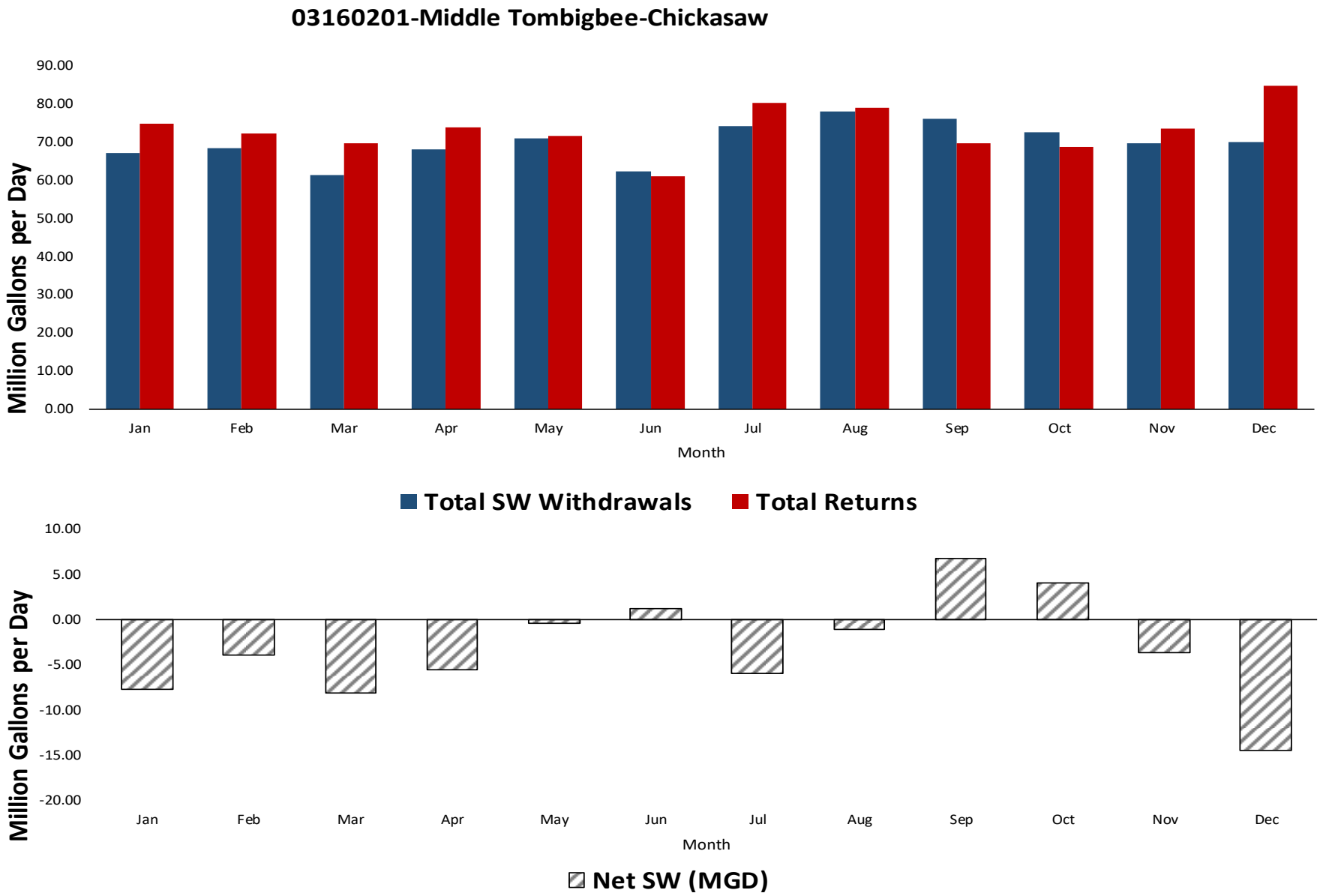
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.44	4.03	4.08	4.03	4.22	4.18	4.20	4.22	4.15	4.09	4.13	4.29	4.17
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Industrial/Mining	SW	65.61	66.91	59.91	66.31	68.91	60.11	71.91	75.61	73.91	70.41	68.21	68.71	68.06
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	0.93	0.92	1.00	1.07	1.30	1.63	1.67	1.45	1.10	1.03	0.93	0.91	1.16
Agriculture	SW	1.33	1.28	1.35	1.68	1.96	2.07	2.09	2.24	2.19	2.00	1.38	1.31	1.74
Total	**GW**	**5.75**	**5.33**	**5.47**	**5.48**	**5.91**	**6.19**	**6.26**	**6.05**	**5.63**	**5.50**	**5.45**	**5.59**	**5.72**
Total	**SW**	**66.93**	**68.19**	**61.26**	**67.98**	**70.86**	**62.18**	**74.00**	**77.85**	**76.09**	**72.41**	**69.59**	**70.01**	**69.80**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.61	3.81	3.88	4.73	1.48	1.50	7.58	1.18	1.19	1.24	2.85	10.04	3.59
Industrial/Mining		71.10	68.30	65.60	68.90	69.90	59.50	72.40	77.80	68.20	67.20	70.50	74.50	69.49
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		**74.71**	**72.11**	**69.48**	**73.63**	**71.38**	**61.00**	**79.98**	**78.98**	**69.39**	**68.44**	**73.35**	**84.54**	**73.08**

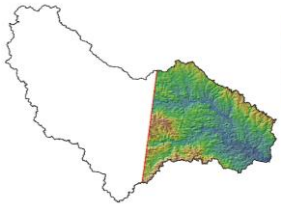
03160201-Middle Tombigbee-Chickasaw

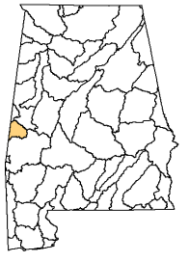
Total SW Withdrawals	SW	66.93	68.19	61.26	67.98	70.86	62.18	74.00	77.85	76.09	72.41	69.59	70.01	69.80
Total GW Withdrawals	GW	5.75	5.33	5.47	5.48	5.91	6.19	6.26	6.05	5.63	5.50	5.45	5.59	5.72
Withdrawal Total		72.68	73.52	66.73	73.47	76.77	68.37	80.25	83.89	81.72	77.91	75.03	75.60	75.52
Total Returns		**74.71**	**72.11**	**69.48**	**73.63**	**71.38**	**61.00**	**79.98**	**78.98**	**69.39**	**68.44**	**73.35**	**84.54**	**73.08**
Net SW (MGD)	**SW**	**-7.78**	**-3.92**	**-8.22**	**-5.64**	**-0.52**	**1.18**	**-5.98**	**-1.13**	**6.71**	**3.97**	**-3.76**	**-14.53**	**-3.28**


03160201-Middle Tombigbee-Chickasaw
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160202-Sucarnoochee





Area (Thousand Acres)	382
Estimated Population (2015)	6,329
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

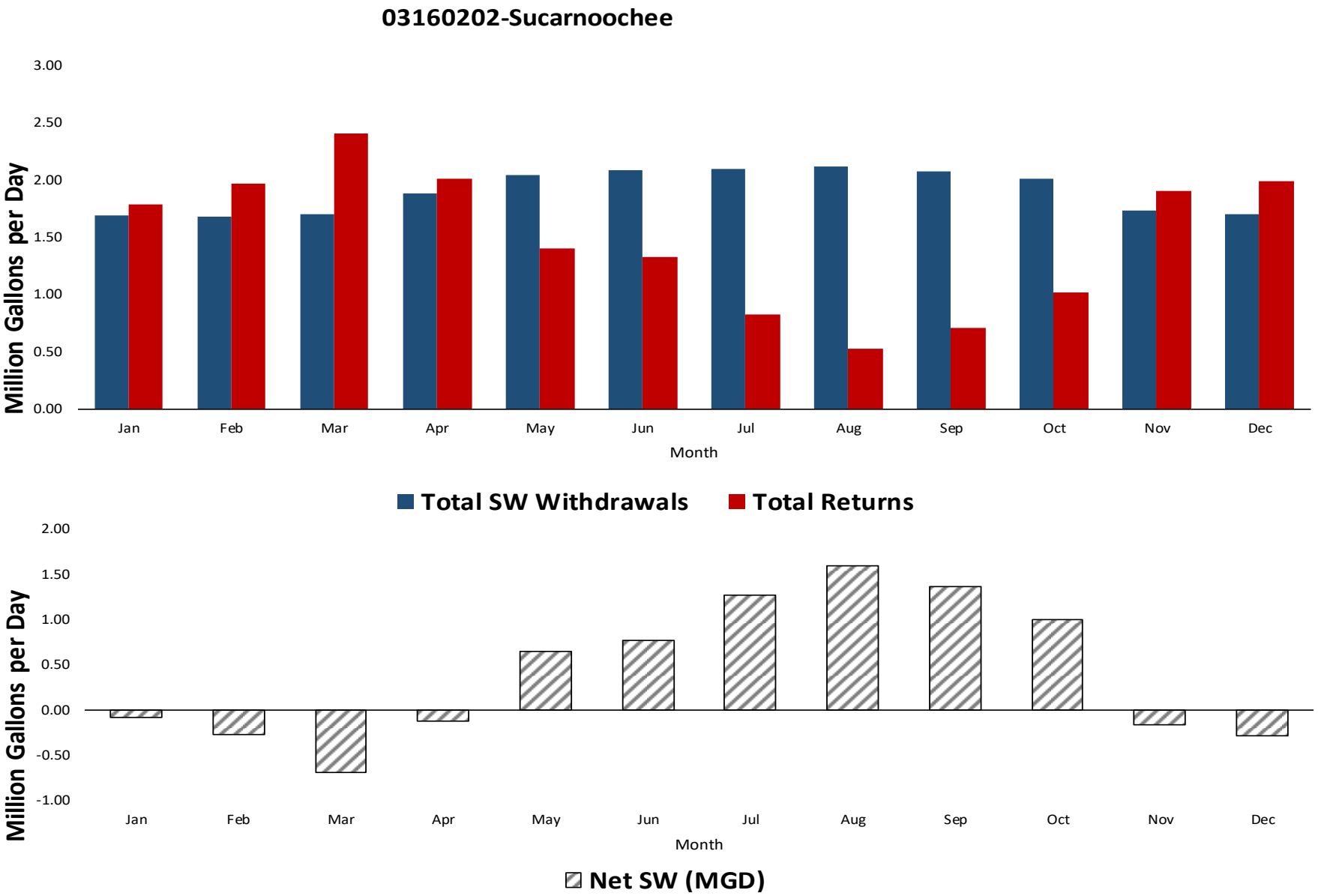
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.76	0.70	0.67	0.77	0.64	0.65	0.73	0.74	0.71	0.64	0.63	0.71	0.70
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Industrial/Mining	SW	1.29	1.29	1.29	1.29	1.36	1.36	1.36	1.36	1.36	1.36	1.29	1.29	1.32
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	0.26	0.33	0.38	0.56	0.81	0.84	0.67	0.40	0.35	0.27	0.26	0.45
Agriculture	SW	0.41	0.39	0.42	0.59	0.68	0.73	0.73	0.76	0.71	0.65	0.44	0.42	0.58
Total	**GW**	**1.47**	**1.40**	**1.45**	**1.59**	**1.65**	**1.91**	**2.01**	**1.85**	**1.55**	**1.43**	**1.34**	**1.41**	**1.59**
Total	**SW**	**1.69**	**1.68**	**1.70**	**1.88**	**2.04**	**2.08**	**2.09**	**2.11**	**2.07**	**2.01**	**1.73**	**1.70**	**1.90**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.69	1.84	2.37	1.88	1.28	1.21	0.71	0.41	0.60	0.92	1.77	1.85	1.38
Industrial/Mining		0.09	0.12	0.03	0.13	0.11	0.11	0.11	0.11	0.11	0.10	0.13	0.14	0.11
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		**1.78**	**1.96**	**2.40**	**2.01**	**1.40**	**1.32**	**0.83**	**0.52**	**0.70**	**1.02**	**1.90**	**1.99**	**1.49**

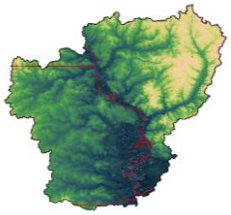
03160202-Sucarnoochee

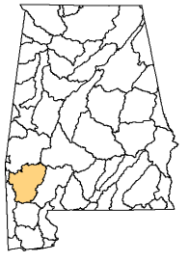
Total SW Withdrawals	SW	1.69	1.68	1.70	1.88	2.04	2.08	2.09	2.11	2.07	2.01	1.73	1.70	1.90
Total GW Withdrawals	GW	1.47	1.40	1.45	1.59	1.65	1.91	2.01	1.85	1.55	1.43	1.34	1.41	1.59
Withdrawal Total		3.16	3.08	3.15	3.47	3.69	3.99	4.10	3.97	3.62	3.44	3.07	3.11	3.49
Total Returns		**1.78**	**1.96**	**2.40**	**2.01**	**1.40**	**1.32**	**0.83**	**0.52**	**0.70**	**1.02**	**1.90**	**1.99**	**1.49**
Net SW (MGD)	**SW**	**-0.09**	**-0.28**	**-0.70**	**-0.13**	**0.65**	**0.76**	**1.26**	**1.59**	**1.37**	**0.99**	**-0.17**	**-0.29**	**0.41**


03160202-Sucarnoochee
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
2.00
1.50
1.00
0.50
0.00
-0.50
-1.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160203-Lower Tombigbee





Area (Thousand Acres)	1,615
Estimated Population (2015)	31,676
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

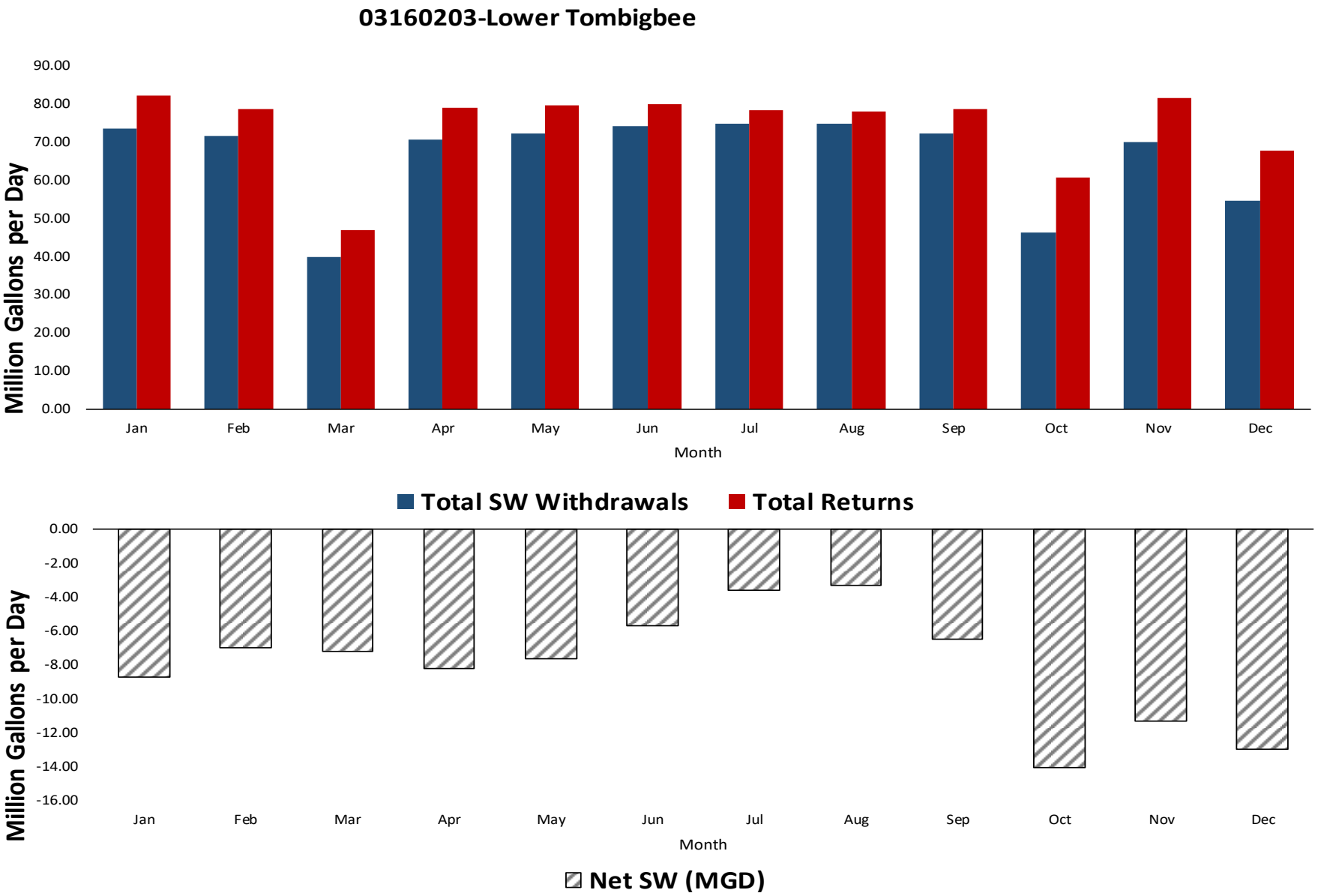
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	4.89	6.55	4.71	5.52	4.91	4.63	4.79	4.70	4.59	4.51	4.36	4.21	4.85
Public Supply	SW	0.10	0.12	0.01	0.03	0.12	0.06	0.03	0.16	0.11	0.13	0.04	0.05	0.08
Industrial/Mining	GW	9.67	7.63	8.58	8.45	8.22	7.98	7.72	8.44	9.70	9.41	8.88	9.31	8.67
Industrial/Mining	SW	27.81	25.06	25.69	25.85	25.92	26.41	25.97	26.48	25.83	21.45	24.20	26.03	25.56
Thermoelectric	SW	45.30	46.10	13.70	44.30	45.40	47.00	48.00	47.40	45.50	24.20	45.40	28.30	39.94
Agriculture	GW	0.16	0.19	0.21	0.25	0.33	0.42	0.43	0.42	0.37	0.34	0.24	0.20	0.30
Agriculture	SW	0.24	0.23	0.26	0.44	0.54	0.59	0.60	0.62	0.57	0.51	0.29	0.26	0.43
Total	**GW**	**14.73**	**14.37**	**13.51**	**14.22**	**13.45**	**13.03**	**12.95**	**13.56**	**14.66**	**14.26**	**13.48**	**13.71**	**13.82**
Total	**SW**	**73.45**	**71.51**	**39.66**	**70.62**	**71.98**	**74.06**	**74.59**	**74.66**	**72.01**	**46.29**	**69.93**	**54.63**	**66.01**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.33	2.66	2.25	1.95	1.29	1.80	1.78	1.26	1.06	7.33	4.92	4.06	2.81
Industrial/Mining		34.02	30.96	31.99	32.79	33.91	33.18	31.92	32.35	32.98	29.65	31.22	35.41	32.53
Thermoelectric		44.85	44.91	12.63	44.11	44.43	44.79	44.49	44.42	44.46	23.43	45.11	28.17	38.81
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		**82.19**	**78.52**	**46.87**	**78.84**	**79.63**	**79.77**	**78.19**	**78.02**	**78.50**	**60.41**	**81.24**	**67.64**	**74.15**

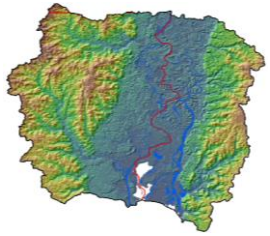
03160203-Lower Tombigbee

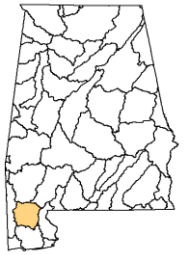
Total SW Withdrawals	SW	73.45	71.51	39.66	70.62	71.98	74.06	74.59	74.66	72.01	46.29	69.93	54.63	66.01
Total GW Withdrawals	GW	14.73	14.37	13.51	14.22	13.45	13.03	12.95	13.56	14.66	14.26	13.48	13.71	13.82
Withdrawal Total		88.17	85.88	53.17	84.84	85.44	87.09	87.54	88.22	86.67	60.55	83.41	68.34	79.83
Total Returns		**82.19**	**78.52**	**46.87**	**78.84**	**79.63**	**79.77**	**78.19**	**78.02**	**78.50**	**60.41**	**81.24**	**67.64**	**74.15**
Net SW (MGD)	**SW**	**-8.75**	**-7.01**	**-7.20**	**-8.22**	**-7.65**	**-5.71**	**-3.60**	**-3.36**	**-6.49**	**-14.12**	**-11.32**	**-13.01**	**-8.14**


03160203-Lower Tombigbee
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
-14.00
-16.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160204-Mobile-Tensaw





Area (Thousand Acres)	912
Estimated Population (2015)	180,518
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

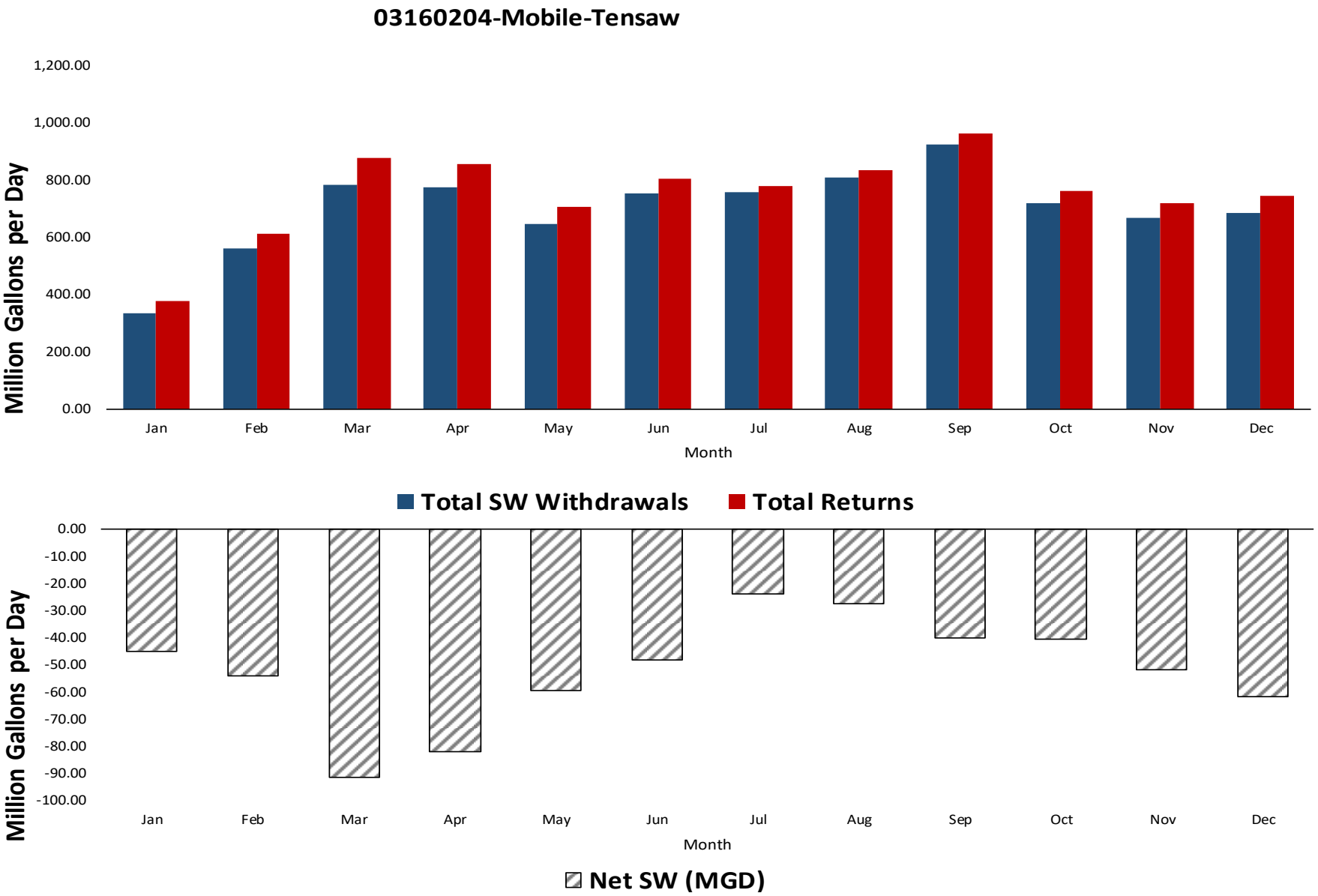
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	8.63	9.18	8.68	9.14	10.35	10.23	10.30	10.15	10.36	9.53	8.61	8.88	9.50
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	5.45	5.38	5.77	5.55	5.29	5.75	5.44	5.72	5.46	5.38	5.67	5.69	5.55
Industrial/Mining	SW	3.22	3.05	2.99	3.09	3.52	3.73	4.11	4.60	4.50	3.93	2.99	3.55	3.61
Thermoelectric	SW	329.20	555.13	778.21	766.67	639.34	745.74	745.87	796.97	913.35	710.52	662.26	677.81	693.70
Agriculture	GW	5.49	7.08	7.97	9.43	12.54	16.14	16.74	17.20	15.77	14.47	9.56	7.39	11.67
Agriculture	SW	0.44	0.92	1.31	2.10	3.43	4.36	4.54	4.70	4.08	3.30	1.62	0.96	2.66
Total	**GW**	**19.58**	**21.65**	**22.41**	**24.12**	**28.19**	**32.12**	**32.47**	**33.07**	**31.59**	**29.37**	**23.84**	**21.95**	**26.73**
Total	**SW**	**332.86**	**559.10**	**782.51**	**771.86**	**646.29**	**753.83**	**754.52**	**806.27**	**921.93**	**717.75**	**666.87**	**682.32**	**699.97**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		43.04	38.62	51.53	60.56	56.46	48.95	31.38	36.05	34.35	34.22	36.33	51.82	43.61
Industrial/Mining		21.95	22.14	37.23	24.31	25.24	27.22	26.27	23.72	22.86	22.33	26.54	24.79	25.38
Thermoelectric		313.02	552.42	785.57	769.33	624.25	725.93	721.07	774.27	904.84	701.93	655.81	667.47	682.99
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		**378.01**	**613.19**	**874.33**	**854.20**	**705.95**	**802.10**	**778.72**	**834.04**	**962.05**	**758.48**	**718.68**	**744.07**	**751.99**

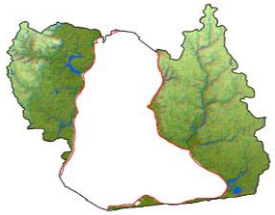
03160204-Mobile-Tensaw

Total SW Withdrawals	SW	332.86	559.10	782.51	771.86	646.29	753.83	754.52	806.27	921.93	717.75	666.87	682.32	699.97
Total GW Withdrawals	GW	19.58	21.65	22.41	24.12	28.19	32.12	32.47	33.07	31.59	29.37	23.84	21.95	26.73
Withdrawal Total		352.44	580.74	804.92	795.98	674.48	785.95	786.99	839.34	953.52	747.12	690.71	704.27	726.69
Total Returns		**378.01**	**613.19**	**874.33**	**854.20**	**705.95**	**802.10**	**778.72**	**834.04**	**962.05**	**758.48**	**718.68**	**744.07**	**751.99**
Net SW (MGD)	**SW**	**-45.15**	**-54.09**	**-91.82**	**-82.34**	**-59.66**	**-48.27**	**-24.21**	**-27.77**	**-40.12**	**-40.74**	**-51.81**	**-61.75**	**-52.02**


03160204-Mobile-Tensaw
1,200.00
1,000.00
800.00
600.00
400.00
200.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03160205-Mobile Bay



Area (Thousand Acres)	872
Estimated Population (2015)	260,675
Subregion:	Mobile-Tombigbee

2015 Demands

Withdrawals

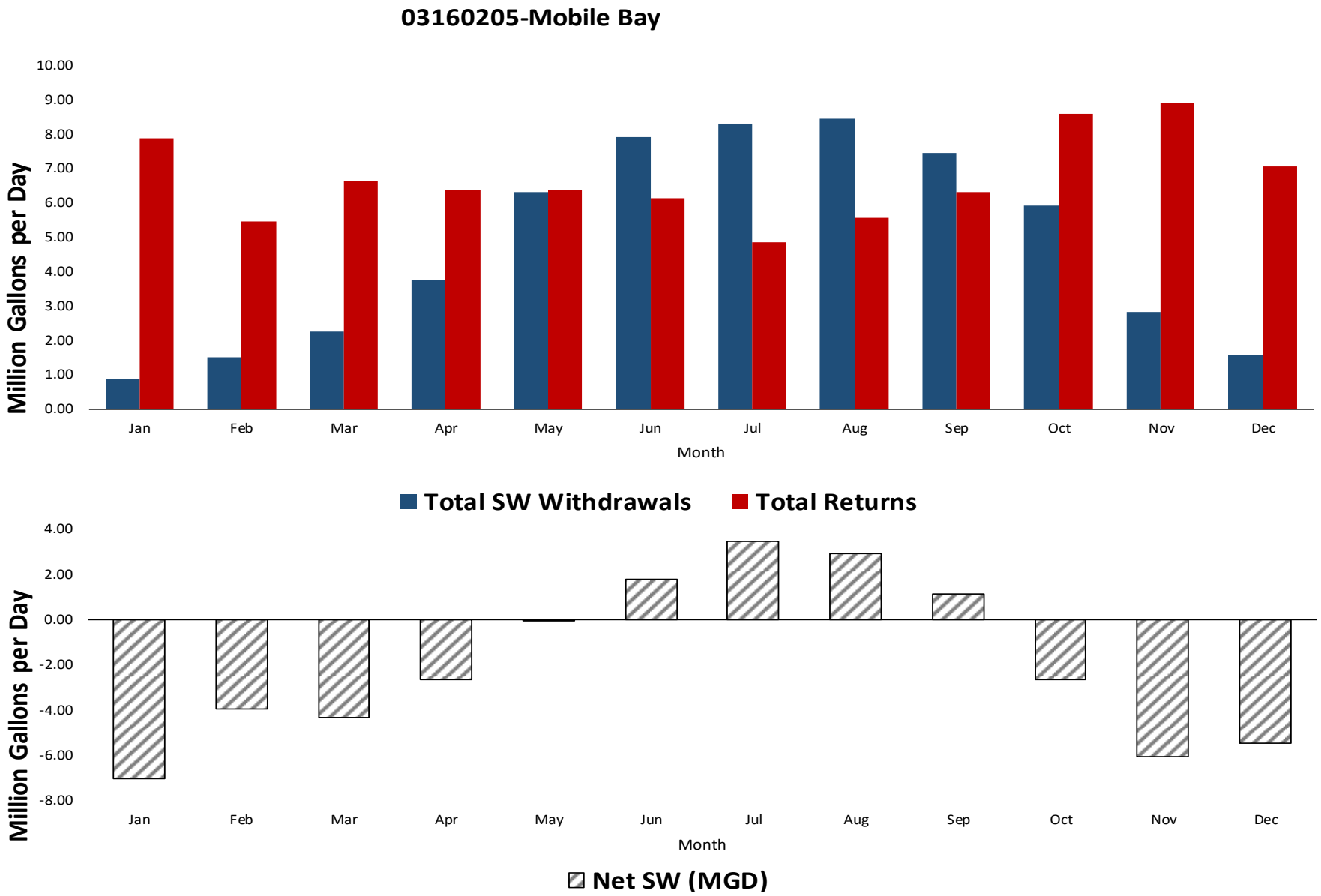
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	12.97	12.66	12.81	14.78	18.09	18.62	18.25	17.14	16.92	15.72	14.14	13.38	15.47
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	1.16	1.16	1.16	1.16	1.15	1.16	1.15	1.17	1.17	1.17	1.20	1.20	1.17
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	6.80	8.78	9.86	11.66	15.45	19.82	20.55	21.19	19.53	17.93	11.86	9.16	14.41
Agriculture	SW	0.85	1.48	2.26	3.74	6.29	7.89	8.29	8.44	7.44	5.91	2.81	1.58	4.77
Total	**GW**	**20.93**	**22.60**	**23.83**	**27.61**	**34.69**	**39.60**	**39.95**	**39.50**	**37.62**	**34.82**	**27.19**	**23.75**	**31.05**
Total	**SW**	**0.85**	**1.48**	**2.26**	**3.74**	**6.29**	**7.89**	**8.29**	**8.44**	**7.44**	**5.91**	**2.81**	**1.58**	**4.77**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		3.09	3.03	3.65	3.64	2.88	2.69	2.57	3.00	2.88	3.01	3.33	3.69	3.12
Industrial/Mining		4.73	2.35	2.90	2.68	3.45	3.36	2.20	2.50	3.37	5.50	5.48	3.29	3.48
Thermoelectric		0.06	0.06	0.07	0.07	0.06	0.06	0.08	0.07	0.06	0.06	0.10	0.05	0.07
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		**7.88**	**5.44**	**6.62**	**6.39**	**6.38**	**6.12**	**4.85**	**5.57**	**6.31**	**8.57**	**8.91**	**7.03**	**6.67**

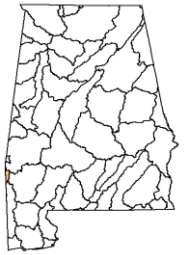
03160205-Mobile Bay

Total SW Withdrawals	SW	0.85	1.48	2.26	3.74	6.29	7.89	8.29	8.44	7.44	5.91	2.81	1.58	4.77
Total GW Withdrawals	GW	20.93	22.60	23.83	27.61	34.69	39.60	39.95	39.50	37.62	34.82	27.19	23.75	31.05
Withdrawal Total		21.77	24.09	26.08	31.34	40.99	47.49	48.23	47.94	45.05	40.72	30.00	25.33	35.82
Total Returns		**7.88**	**5.44**	**6.62**	**6.39**	**6.38**	**6.12**	**4.85**	**5.57**	**6.31**	**8.57**	**8.91**	**7.03**	**6.67**
Net SW (MGD)	**SW**	**-7.03**	**-3.96**	**-4.36**	**-2.65**	**-0.09**	**1.78**	**3.44**	**2.88**	**1.12**	**-2.66**	**-6.10**	**-5.46**	**-1.91**


03160205-Mobile Bay
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
4.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03170002-Upper Chickasawhay



Area (Thousand Acres)	65
Estimated Population (2015)	1,014
Subregion:	Pascagoula

2015 Demands

Withdrawals

Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	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
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	0.00	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	**GW**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**
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**

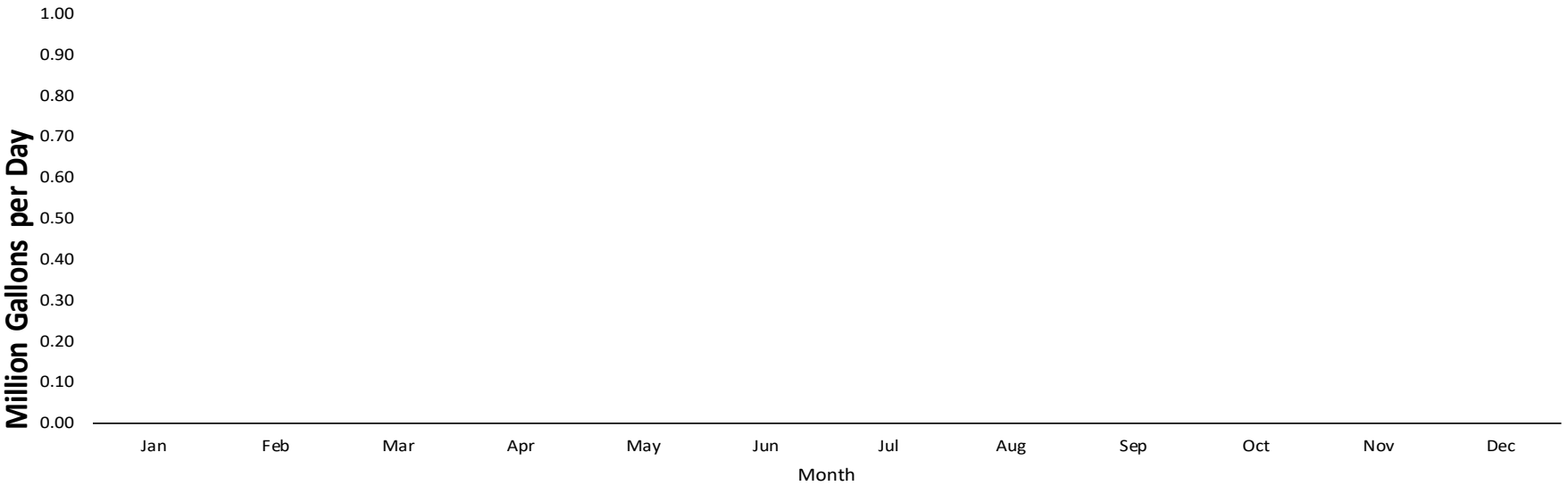
Returns

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**

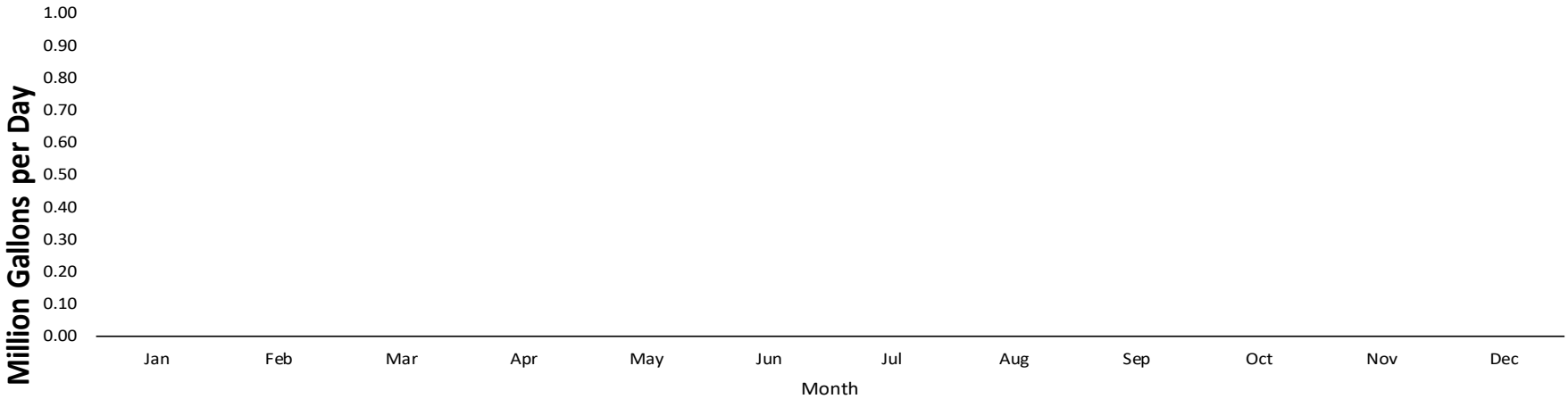
03170002-Upper Chickasawhay

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	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Withdrawal Total		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
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**

03170002-Upper Chickasawhay



Total SW Withdrawals Total Returns



Net SW (MGD)

Subbasin number - Subbasin name

03170003-Lower Chickasawhay

Area (Thousand Acres)	1
Estimated Population (2015)	6
Subregion:	Pascagoula

2015 Demands

Withdrawals

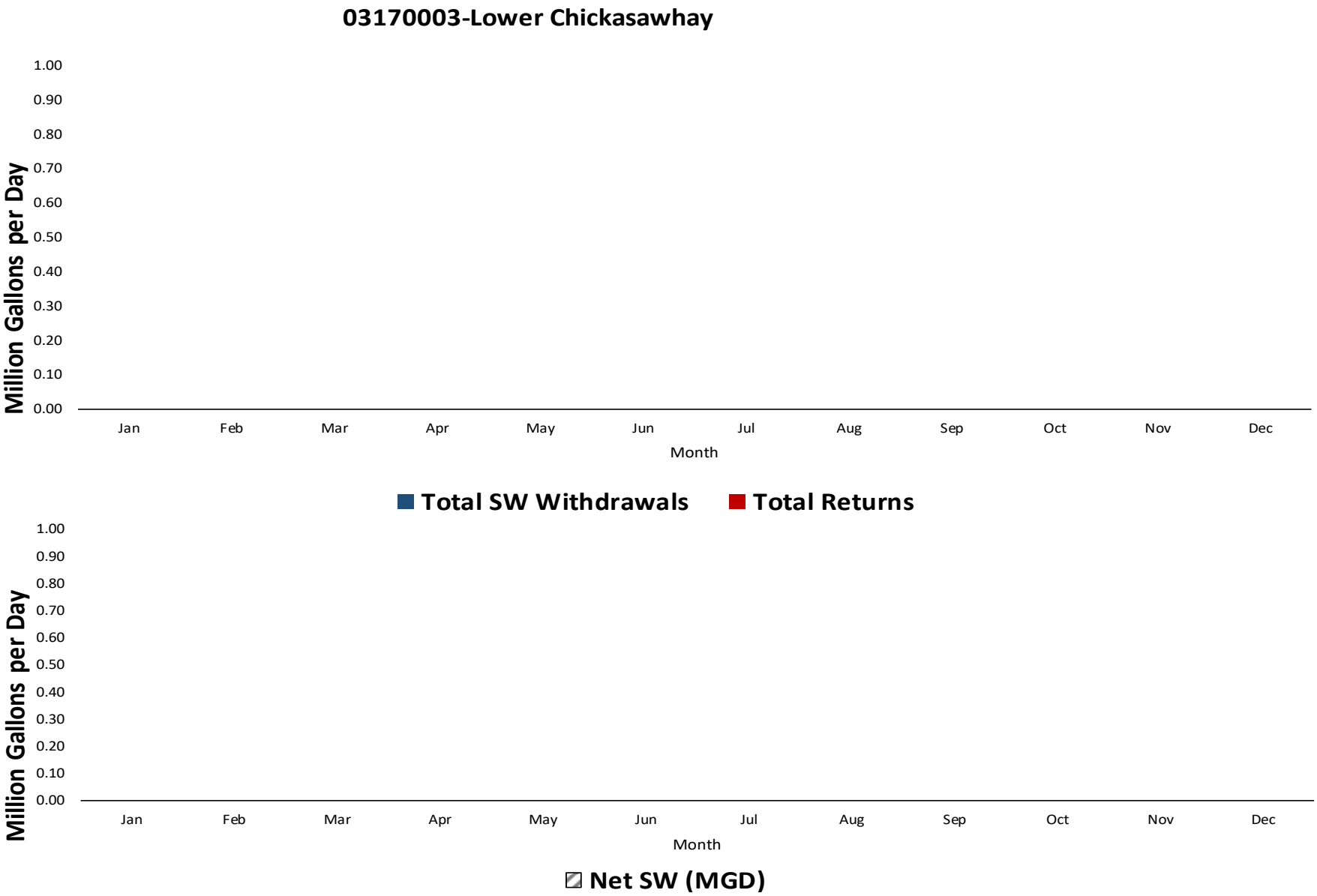
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00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

Returns

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**

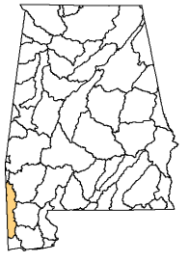
03170003-Lower Chickasawhay

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
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)

Subbasin number - Subbasin name

03170008-Escatawpa



Area (Thousand Acres)	703
Estimated Population (2015)	73,337
Subregion:	Pascagoula

2015 Demands

Withdrawals

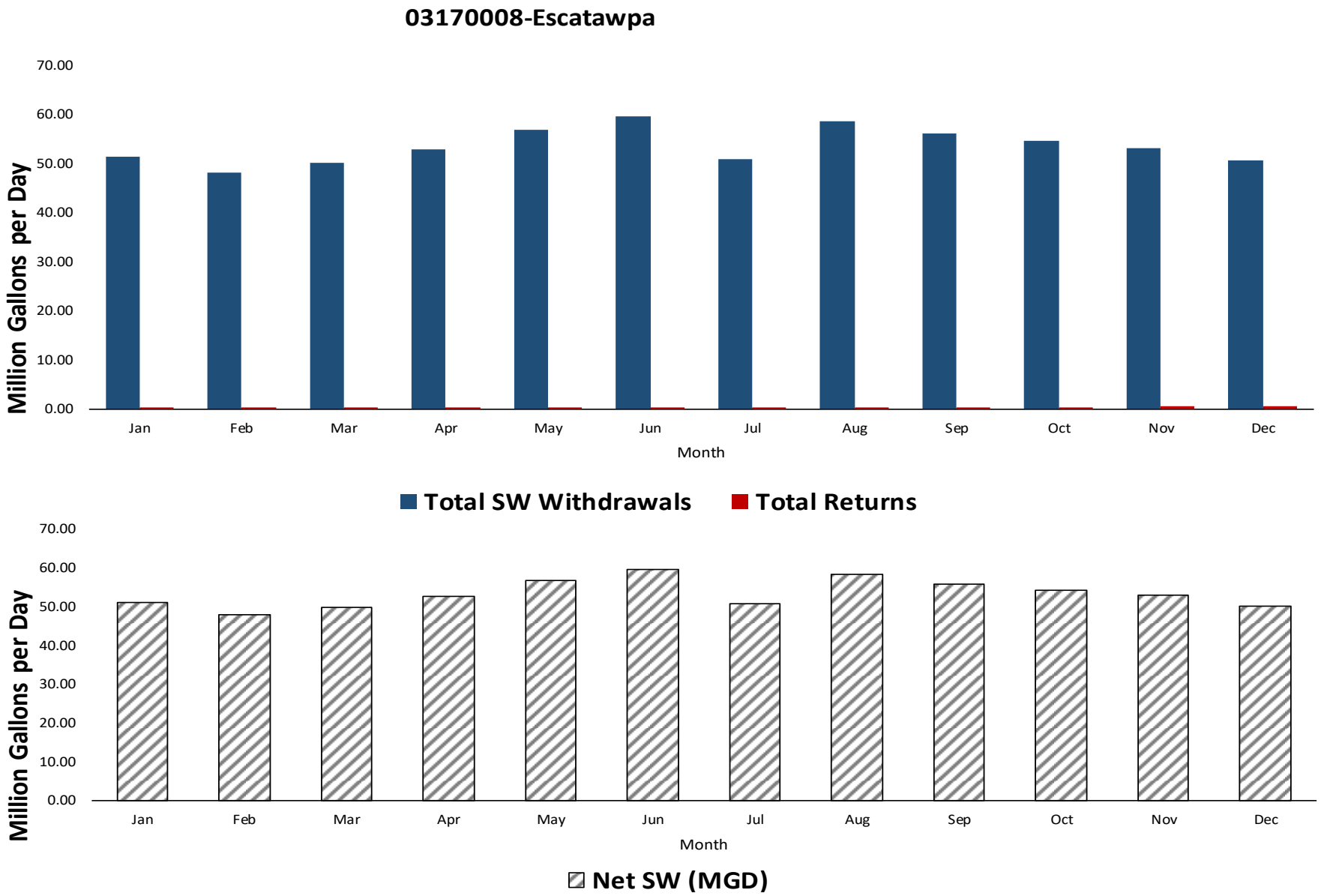
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.62	5.09	5.48	5.57	6.09	5.92	5.98	6.00	6.08	5.78	5.31	5.24	5.68
Public Supply	SW	51.06	47.87	49.68	51.98	55.62	58.12	49.29	56.91	54.49	53.33	52.82	50.32	52.64
Industrial/Mining	GW	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
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	1.10	1.41	1.61	1.91	2.59	3.40	3.53	3.54	3.15	2.87	1.89	1.46	2.38
Agriculture	SW	0.26	0.21	0.32	0.75	1.19	1.44	1.48	1.63	1.48	1.21	0.34	0.23	0.88
Total	**GW**	**7.57**	**7.34**	**7.93**	**8.32**	**9.52**	**10.17**	**10.35**	**10.38**	**10.07**	**9.49**	**8.04**	**7.54**	**8.90**
Total	**SW**	**51.32**	**48.08**	**50.00**	**52.73**	**56.81**	**59.56**	**50.77**	**58.54**	**55.97**	**54.54**	**53.16**	**50.55**	**53.53**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.27	0.20	0.28	0.26	0.25	0.18	0.18	0.30	0.31	0.33	0.43	0.52	0.29
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		**0.27**	**0.20**	**0.28**	**0.26**	**0.25**	**0.18**	**0.18**	**0.30**	**0.31**	**0.33**	**0.43**	**0.52**	**0.29**

03170008-Escatawpa

Total SW Withdrawals	SW	51.32	48.08	50.00	52.73	56.81	59.56	50.77	58.54	55.97	54.54	53.16	50.55	53.53
Total GW Withdrawals	GW	7.57	7.34	7.93	8.32	9.52	10.17	10.35	10.38	10.07	9.49	8.04	7.54	8.90
Withdrawal Total		58.88	55.42	57.93	61.05	66.33	69.73	61.12	68.92	66.04	64.03	61.21	58.10	62.43
Total Returns		**0.27**	**0.20**	**0.28**	**0.26**	**0.25**	**0.18**	**0.18**	**0.30**	**0.31**	**0.33**	**0.43**	**0.52**	**0.29**
Net SW (MGD)	**SW**	**51.05**	**47.88**	**49.72**	**52.47**	**56.55**	**59.38**	**50.59**	**58.24**	**55.66**	**54.21**	**52.73**	**50.03**	**53.23**


03170008-Escatawpa
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

03170009-Mississippi Coastal

Area (Thousand Acres)	320
Estimated Population (2015)	12,711
Subregion:	Pascagoula

2015 Demands

Withdrawals

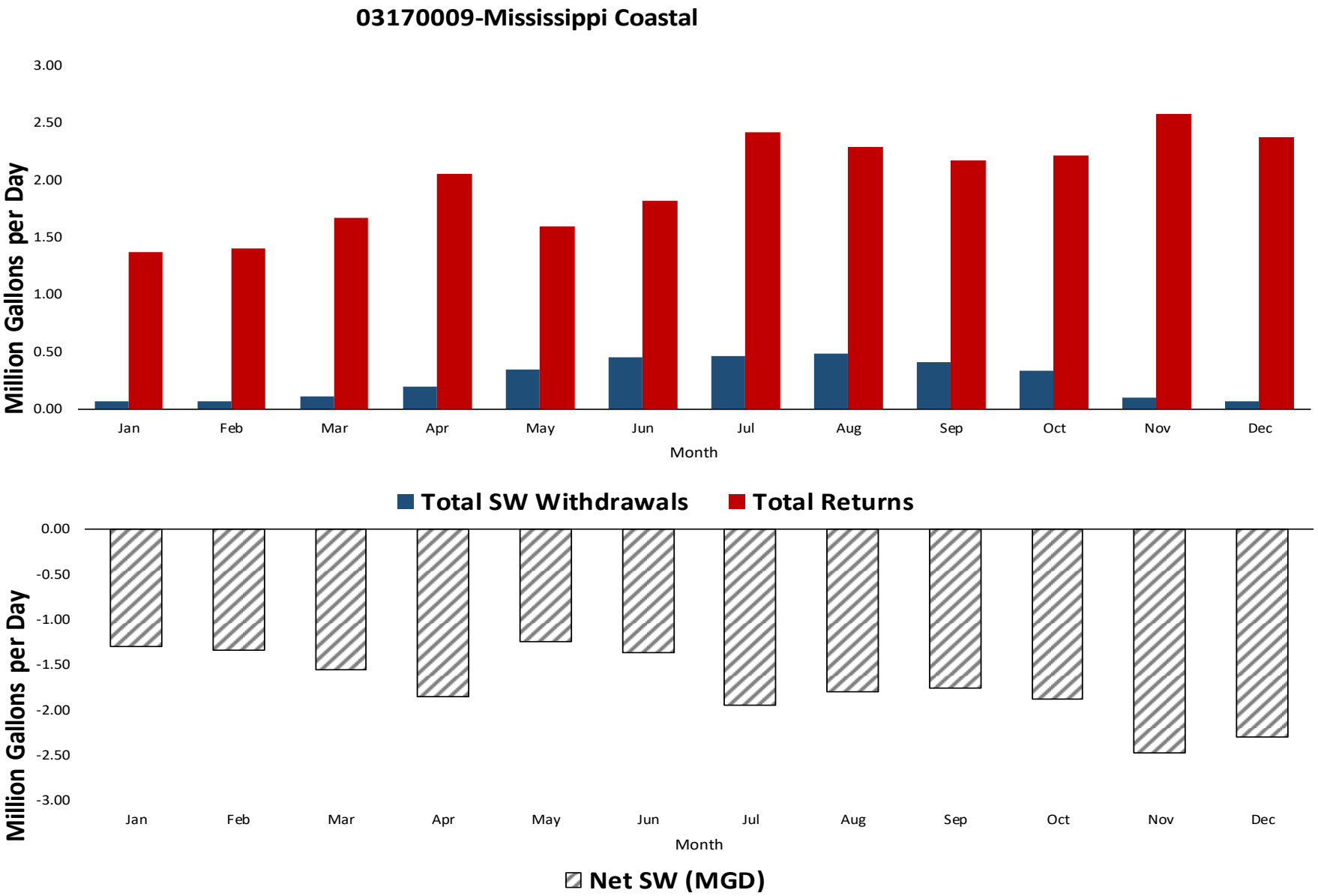
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.56	1.49	1.58	1.64	1.72	1.92	2.00	1.79	1.75	1.67	1.52	1.56	1.69
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Industrial/Mining	SW	0.00	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	0.79	1.02	1.16	1.38	1.88	2.47	2.56	2.57	2.29	2.08	1.37	1.06	1.72
Agriculture	SW	0.07	0.06	0.10	0.19	0.34	0.45	0.46	0.48	0.41	0.33	0.09	0.06	0.26
Total	**GW**	**2.40**	**2.55**	**2.78**	**3.07**	**3.64**	**4.43**	**4.61**	**4.41**	**4.08**	**3.80**	**2.93**	**2.66**	**3.45**
Total	**SW**	**0.07**	**0.06**	**0.10**	**0.19**	**0.34**	**0.45**	**0.46**	**0.48**	**0.41**	**0.33**	**0.09**	**0.06**	**0.26**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		1.18	1.17	1.37	1.79	1.38	1.62	1.69	1.55	1.43	1.56	1.84	1.77	1.53
Industrial/Mining		0.19	0.24	0.30	0.26	0.21	0.20	0.72	0.74	0.74	0.66	0.74	0.60	0.47
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		**1.37**	**1.40**	**1.67**	**2.05**	**1.59**	**1.82**	**2.41**	**2.29**	**2.17**	**2.22**	**2.57**	**2.37**	**1.99**

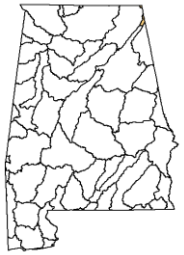
03170009-Mississippi Coastal

Total SW Withdrawals	SW	0.07	0.06	0.10	0.19	0.34	0.45	0.46	0.48	0.41	0.33	0.09	0.06	0.26
Total GW Withdrawals	GW	2.40	2.55	2.78	3.07	3.64	4.43	4.61	4.41	4.08	3.80	2.93	2.66	3.45
Withdrawal Total		2.47	2.61	2.89	3.26	3.98	4.88	5.07	4.89	4.49	4.13	3.03	2.72	3.71
Total Returns		**1.37**	**1.40**	**1.67**	**2.05**	**1.59**	**1.82**	**2.41**	**2.29**	**2.17**	**2.22**	**2.57**	**2.37**	**1.99**
Net SW (MGD)	**SW**	**-1.30**	**-1.34**	**-1.57**	**-1.86**	**-1.25**	**-1.37**	**-1.95**	**-1.80**	**-1.76**	**-1.89**	**-2.48**	**-2.31**	**-1.74**


03170009-Mississippi Coastal
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
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

06020001-Middle Tennesse-Chickamauga



Area (Thousand Acres)	53
Estimated Population (2015)	2,747
Subregion:	Middle-Tennessee-HiWassee

2015 Demands

Withdrawals

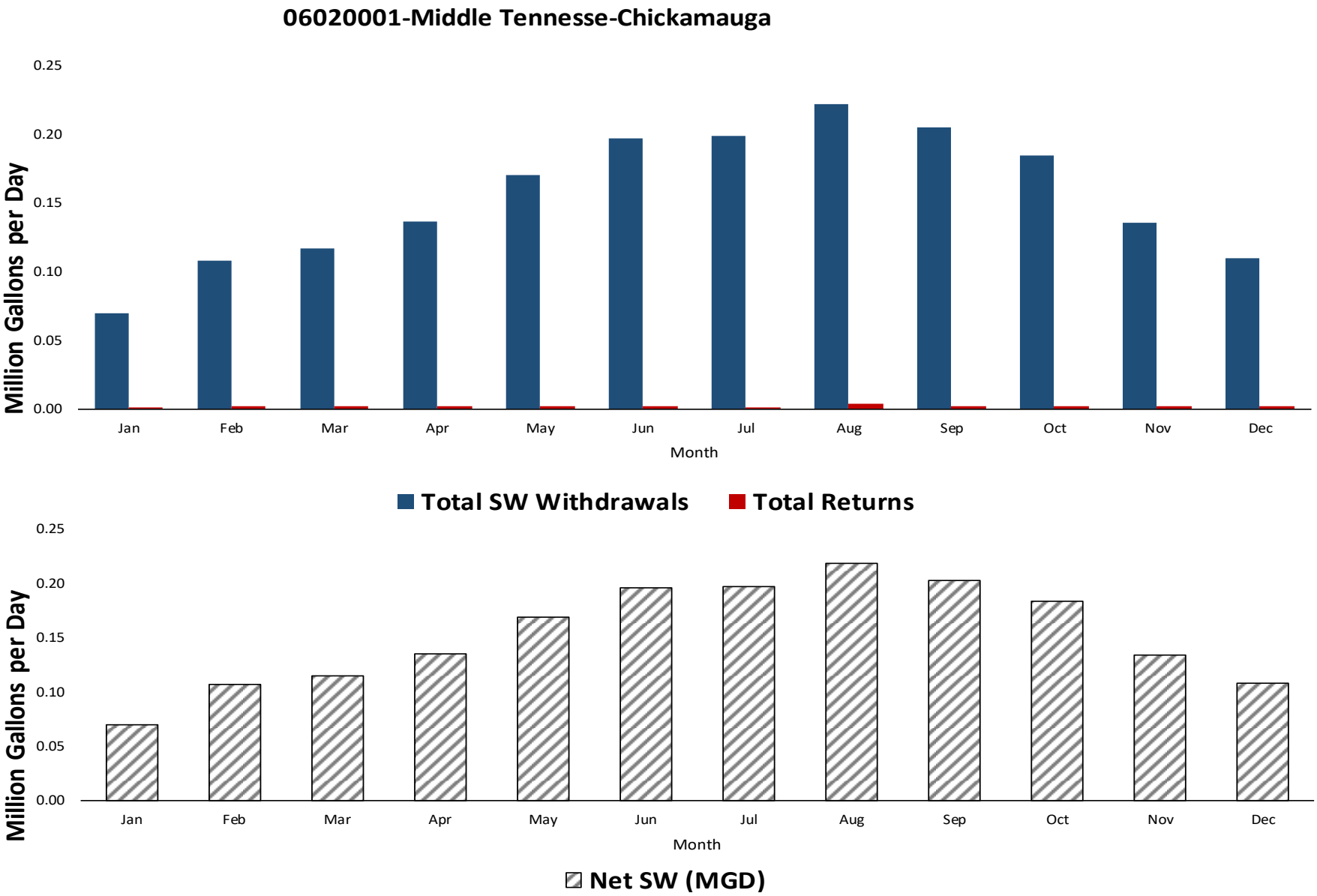
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.38	0.39	0.39	0.38	0.40	0.40	0.41	0.41	0.43	0.37	0.36	0.36	0.39
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.08	0.08	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.08	0.09
Agriculture	SW	0.07	0.11	0.12	0.14	0.17	0.20	0.20	0.22	0.20	0.18	0.14	0.11	0.15
Total	**GW**	**0.45**	**0.47**	**0.47**	**0.47**	**0.49**	**0.50**	**0.51**	**0.51**	**0.53**	**0.47**	**0.45**	**0.44**	**0.48**
Total	**SW**	**0.07**	**0.11**	**0.12**	**0.14**	**0.17**	**0.20**	**0.20**	**0.22**	**0.20**	**0.18**	**0.14**	**0.11**	**0.15**

Returns

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**

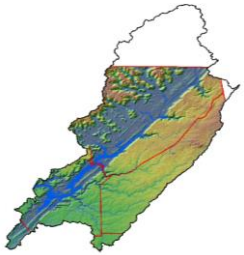
06020001-Middle Tennesse-Chickamauga

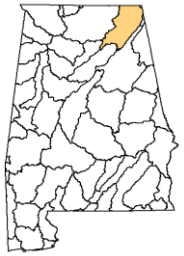
Total SW Withdrawals	SW	0.07	0.11	0.12	0.14	0.17	0.20	0.20	0.22	0.20	0.18	0.14	0.11	0.15
Total GW Withdrawals	GW	0.45	0.47	0.47	0.47	0.49	0.50	0.51	0.51	0.53	0.47	0.45	0.44	0.48
Withdrawal Total		0.52	0.57	0.58	0.60	0.66	0.70	0.71	0.74	0.73	0.65	0.58	0.55	0.63
Total Returns		**0.00**	**0.00**	**0.00**	**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**	**0.11**	**0.11**	**0.13**	**0.17**	**0.20**	**0.20**	**0.22**	**0.20**	**0.18**	**0.13**	**0.11**	**0.15**


06020001-Middle Tennesse-Chickamauga
Million Gallons per Day
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
Million Gallons per Day
0.25
0.20
0.15
0.10
0.05
0.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

06030001-Guntersville Lake





Area (Thousand Acres)	1,647
Estimated Population (2015)	148,391
Subregion:	Middle-Tennessee-Elk

2015 Demands

Withdrawals

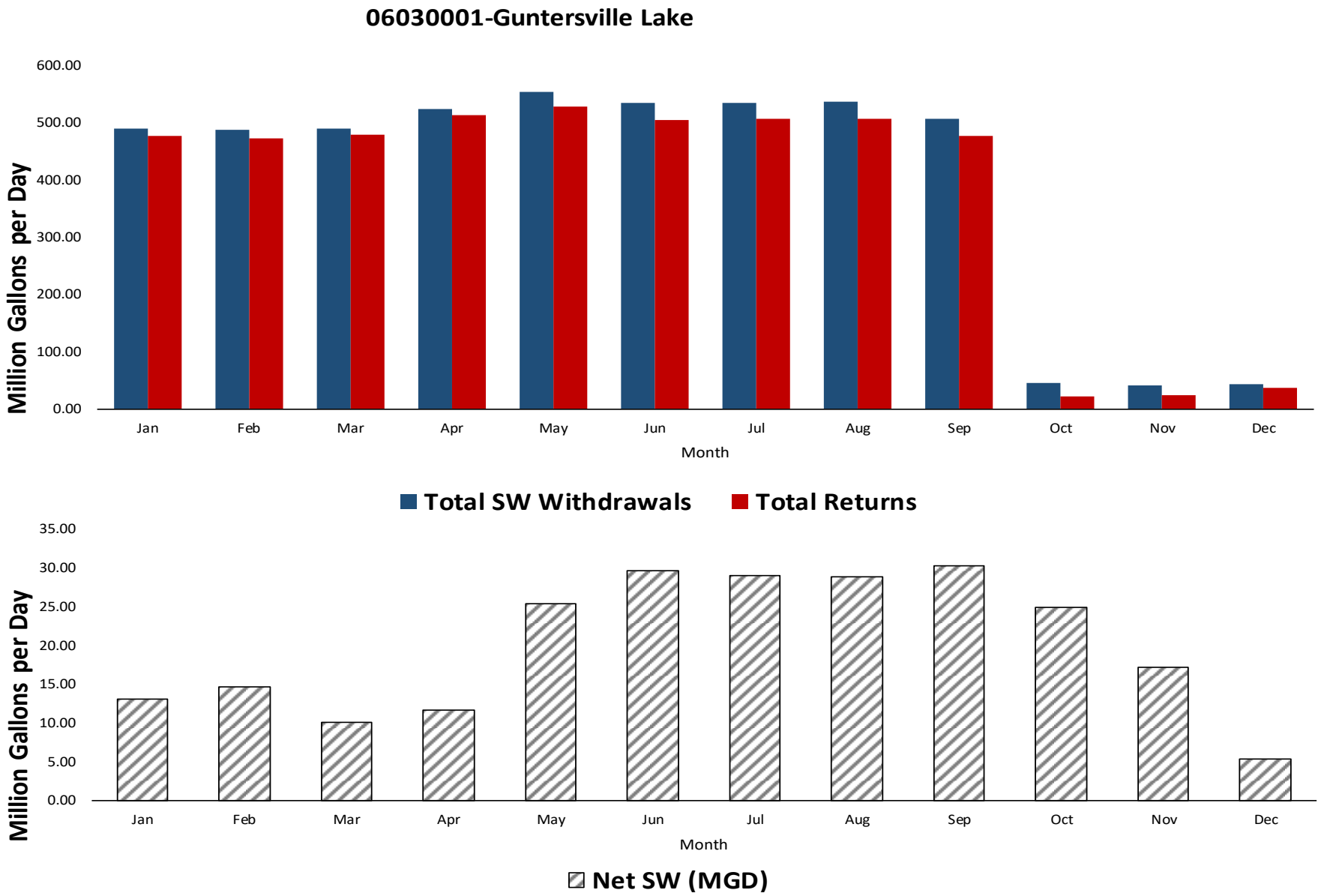
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	5.44	5.36	5.13	5.26	5.76	5.68	5.86	5.68	5.52	5.04	5.54	5.50	5.48
Public Supply	SW	30.92	29.52	30.38	29.95	33.04	36.78	36.41	36.38	35.21	31.55	29.83	30.20	32.53
Industrial/Mining	GW	0.10	0.11	0.10	0.11	0.10	0.10	0.11	0.03	0.08	0.11	0.11	0.11	0.10
Industrial/Mining	SW	9.59	9.66	9.30	8.83	8.74	8.16	9.29	9.21	8.95	8.88	9.11	9.49	9.10
Thermoelectric	SW	446.95	446.38	446.38	481.88	507.22	483.80	483.80	483.80	456.01	0.00	0.00	0.00	352.22
Agriculture	GW	1.53	1.66	1.72	1.83	2.05	2.30	2.34	2.42	2.35	2.25	1.86	1.69	2.00
Agriculture	SW	1.72	1.95	2.28	3.48	4.76	5.55	5.64	6.18	5.67	4.88	2.51	2.03	3.90
Total	**GW**	**7.07**	**7.13**	**6.96**	**7.20**	**7.92**	**8.08**	**8.30**	**8.13**	**7.95**	**7.40**	**7.52**	**7.29**	**7.58**
Total	**SW**	**489.19**	**487.50**	**488.34**	**524.14**	**553.75**	**534.29**	**535.14**	**535.57**	**505.85**	**45.31**	**41.45**	**41.72**	**397.76**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		23.15	20.55	25.64	24.56	16.25	15.22	15.57	16.60	13.56	13.41	17.24	28.54	19.19
Industrial/Mining		6.76	6.72	6.97	6.71	5.61	6.38	7.48	7.08	6.72	6.99	7.16	7.96	6.88
Thermoelectric		446.28	445.71	445.71	481.21	506.55	483.13	483.13	483.13	455.34	0.00	0.00	0.00	352.52
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		**476.19**	**472.98**	**478.31**	**512.48**	**528.41**	**504.73**	**506.18**	**506.81**	**475.62**	**20.40**	**24.40**	**36.50**	**378.59**

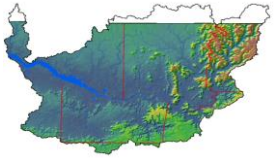
06030001-Guntersville Lake

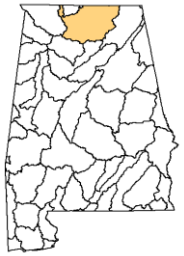
Total SW Withdrawals	SW	489.19	487.50	488.34	524.14	553.75	534.29	535.14	535.57	505.85	45.31	41.45	41.72	397.76
Total GW Withdrawals	GW	7.07	7.13	6.96	7.20	7.92	8.08	8.30	8.13	7.95	7.40	7.52	7.29	7.58
Withdrawal Total		496.26	494.63	495.29	531.35	561.67	542.37	543.45	543.70	513.80	52.71	48.97	49.01	405.34
Total Returns		**476.19**	**472.98**	**478.31**	**512.48**	**528.41**	**504.73**	**506.18**	**506.81**	**475.62**	**20.40**	**24.40**	**36.50**	**378.59**
Net SW (MGD)	**SW**	**13.00**	**14.52**	**10.02**	**11.66**	**25.34**	**29.56**	**28.96**	**28.76**	**30.22**	**24.91**	**17.05**	**5.22**	**19.17**


06030001-Guntersville Lake
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

06030002-Wheeler Lake





Area (Thousand Acres)	2,664
Estimated Population (2015)	591,583
Subregion:	Middle-Tennessee-Elk

2015 Demands

Withdrawals

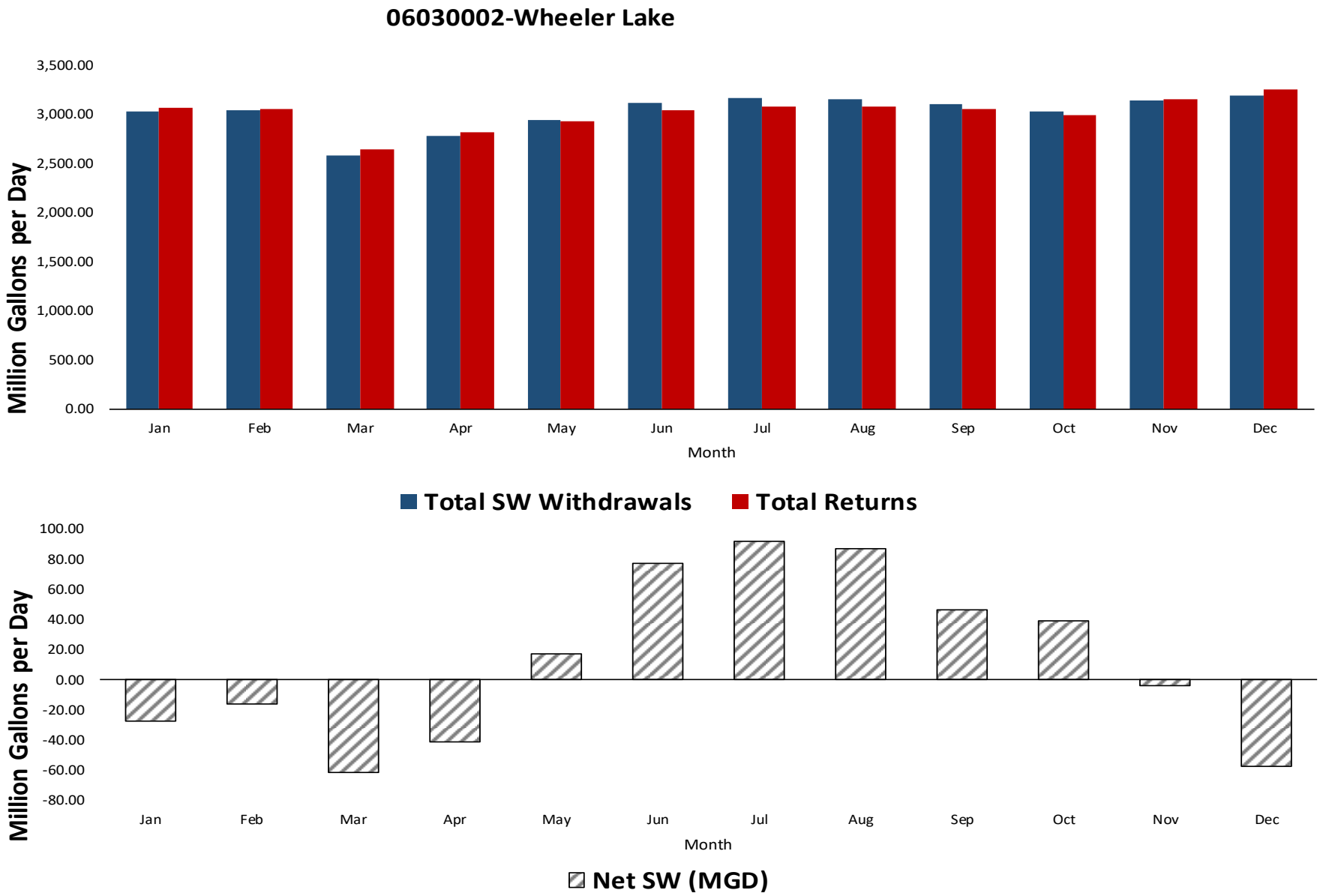
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	34.44	34.71	33.54	33.53	37.71	39.31	42.69	38.43	36.84	33.77	32.20	32.48	35.82
Public Supply	SW	60.89	60.39	57.55	57.28	73.04	84.45	86.83	82.45	78.59	71.77	63.87	57.72	69.63
Industrial/Mining	GW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
Industrial/Mining	SW	72.77	76.73	83.70	87.80	54.79	76.58	115.63	116.11	111.41	98.86	84.99	86.24	88.88
Thermoelectric	SW	2,897.65	2,899.76	2,431.36	2,620.47	2,800.18	2,930.47	2,938.56	2,935.64	2,898.77	2,847.12	2,992.59	3,046.81	2,852.82
Agriculture	GW	3.16	3.57	4.98	6.35	10.49	16.04	16.79	13.83	8.66	7.28	4.43	3.57	8.29
Agriculture	SW	3.09	3.07	5.80	9.64	18.08	27.06	28.31	24.66	16.20	12.57	4.45	2.97	13.06
Total	**GW**	**37.61**	**38.29**	**38.53**	**39.89**	**48.21**	**55.35**	**59.49**	**52.27**	**45.51**	**41.05**	**36.64**	**36.05**	**44.12**
Total	**SW**	**3,034.40**	**3,039.95**	**2,578.41**	**2,775.19**	**2,946.09**	**3,118.55**	**3,169.34**	**3,158.86**	**3,104.96**	**3,030.31**	**3,145.90**	**3,193.73**	**3,024.39**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		94.82	82.79	113.76	110.42	77.47	69.49	67.51	67.29	55.43	50.99	74.67	118.00	81.89
Industrial/Mining		71.61	77.37	97.01	87.74	55.26	76.44	114.54	109.36	107.67	94.05	84.96	88.64	88.72
Thermoelectric		2,895.78	2,895.83	2,429.03	2,618.53	2,796.43	2,895.71	2,895.73	2,895.75	2,895.73	2,846.02	2,990.34	3,045.06	2,841.66
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		**3,062.20**	**3,055.99**	**2,639.81**	**2,816.69**	**2,929.15**	**3,041.64**	**3,077.79**	**3,072.40**	**3,058.84**	**2,991.06**	**3,149.96**	**3,251.71**	**3,012.27**

06030002-Wheeler Lake

Total SW Withdrawals	SW	3,034.40	3,039.95	2,578.41	2,775.19	2,946.09	3,118.55	3,169.34	3,158.86	3,104.96	3,030.31	3,145.90	3,193.73	3,024.39
Total GW Withdrawals	GW	37.61	38.29	38.53	39.89	48.21	55.35	59.49	52.27	45.51	41.05	36.64	36.05	44.12
Withdrawal Total		3,072.01	3,078.24	2,616.94	2,815.07	2,994.30	3,173.90	3,228.82	3,211.13	3,150.47	3,071.37	3,182.54	3,229.78	3,068.51
Total Returns		**3,062.20**	**3,055.99**	**2,639.81**	**2,816.69**	**2,929.15**	**3,041.64**	**3,077.79**	**3,072.40**	**3,058.84**	**2,991.06**	**3,149.96**	**3,251.71**	**3,012.27**
Net SW (MGD)	**SW**	**-27.81**	**-16.04**	**-61.39**	**-41.51**	**16.93**	**76.91**	**91.55**	**86.46**	**46.13**	**39.25**	**-4.07**	**-57.98**	**12.12**


06030002-Wheeler Lake
Million Gallons per Day
3,500.00
3,000.00
2,500.00
2,000.00
1,500.00
1,000.00
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
100.00
80.00
60.00
40.00
20.00
0.00
-20.00
-40.00
-60.00
-80.00
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

06030003-Elk

Area (Thousand Acres)	0
Estimated Population (2015)	4
Subregion:	Middle-Tennessee-Elk

2015 Demands

Withdrawals

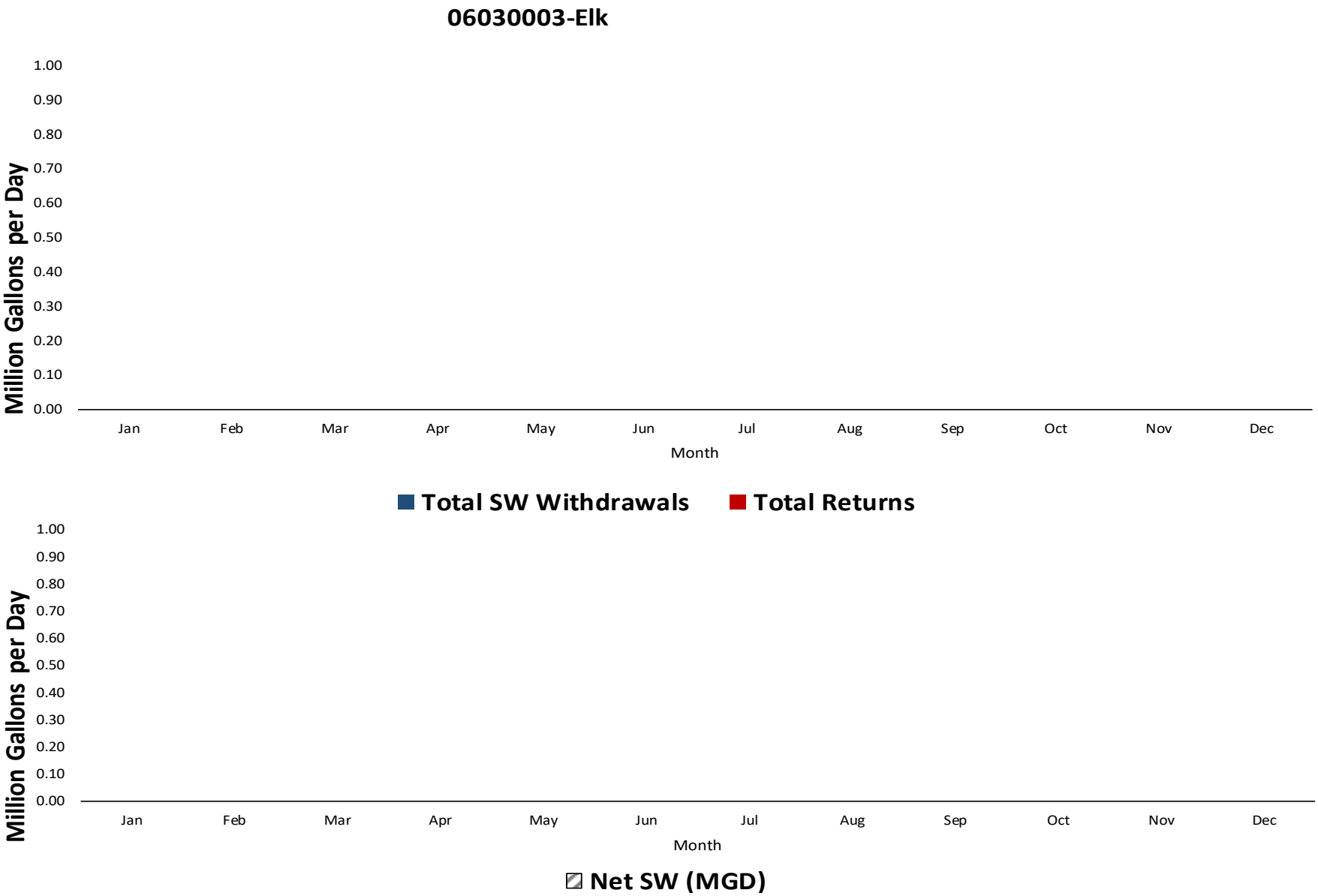
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public Supply	SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00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

Returns

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

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
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)

Subbasin number - Subbasin name

06030004-Lower Elk

Area (Thousand Acres)	249
Estimated Population (2015)	17,171
Subregion:	Middle-Tennessee-Elk

2015 Demands

Withdrawals

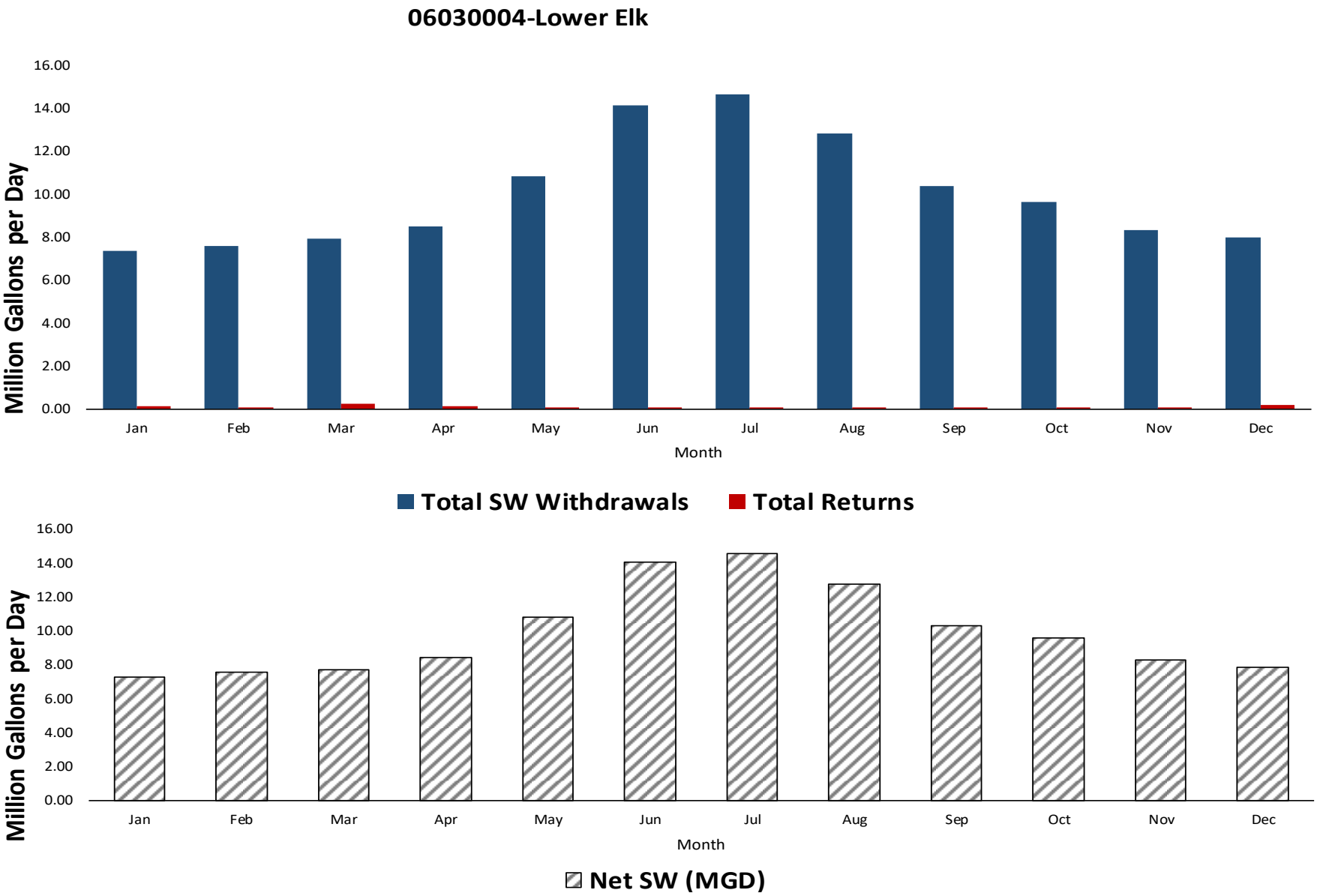
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Public Supply	SW	6.94	7.11	6.83	6.78	7.43	8.40	8.60	8.31	8.29	8.11	7.67	7.51	7.67
Industrial/Mining	GW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.39	0.47	0.58	0.72	1.07	1.53	1.59	1.43	1.06	0.94	0.60	0.48	0.91
Agriculture	SW	0.40	0.49	1.09	1.71	3.42	5.73	6.02	4.51	2.05	1.50	0.66	0.47	2.35
Total	**GW**	**0.80**	**0.88**	**0.99**	**1.12**	**1.48**	**1.93**	**2.00**	**1.83**	**1.47**	**1.34**	**1.01**	**0.89**	**1.31**
Total	**SW**	**7.34**	**7.60**	**7.91**	**8.49**	**10.85**	**14.13**	**14.62**	**12.83**	**10.34**	**9.61**	**8.33**	**7.99**	**10.02**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		0.08	0.08	0.20	0.09	0.07	0.07	0.06	0.06	0.05	0.05	0.08	0.15	0.09
Industrial/Mining		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		0.00	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		**0.09**	**0.09**	**0.21**	**0.10**	**0.08**	**0.08**	**0.07**	**0.07**	**0.05**	**0.06**	**0.09**	**0.15**	**0.09**

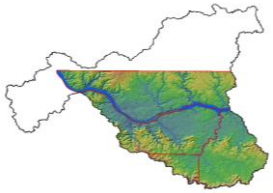
06030004-Lower Elk

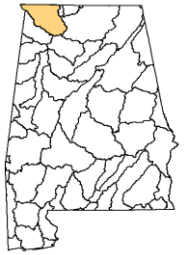
Total SW Withdrawals	SW	7.34	7.60	7.91	8.49	10.85	14.13	14.62	12.83	10.34	9.61	8.33	7.99	10.02
Total GW Withdrawals	GW	0.80	0.88	0.99	1.12	1.48	1.93	2.00	1.83	1.47	1.34	1.01	0.89	1.31
Withdrawal Total		8.14	8.48	8.90	9.61	12.33	16.07	16.62	14.66	11.81	10.95	9.33	8.87	11.33
Total Returns		**0.09**	**0.09**	**0.21**	**0.10**	**0.08**	**0.08**	**0.07**	**0.07**	**0.05**	**0.06**	**0.09**	**0.15**	**0.09**
Net SW (MGD)	**SW**	**7.25**	**7.51**	**7.71**	**8.39**	**10.78**	**14.05**	**14.55**	**12.76**	**10.29**	**9.55**	**8.24**	**7.83**	**9.93**


06030004-Lower Elk
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
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)

Subbasin number - Subbasin name

06030005-Pickwick Lake





Area (Thousand Acres)	1,411
Estimated Population (2015)	157,076
Subregion:	Middle-Tennessee-Elk

2015 Demands

Withdrawals

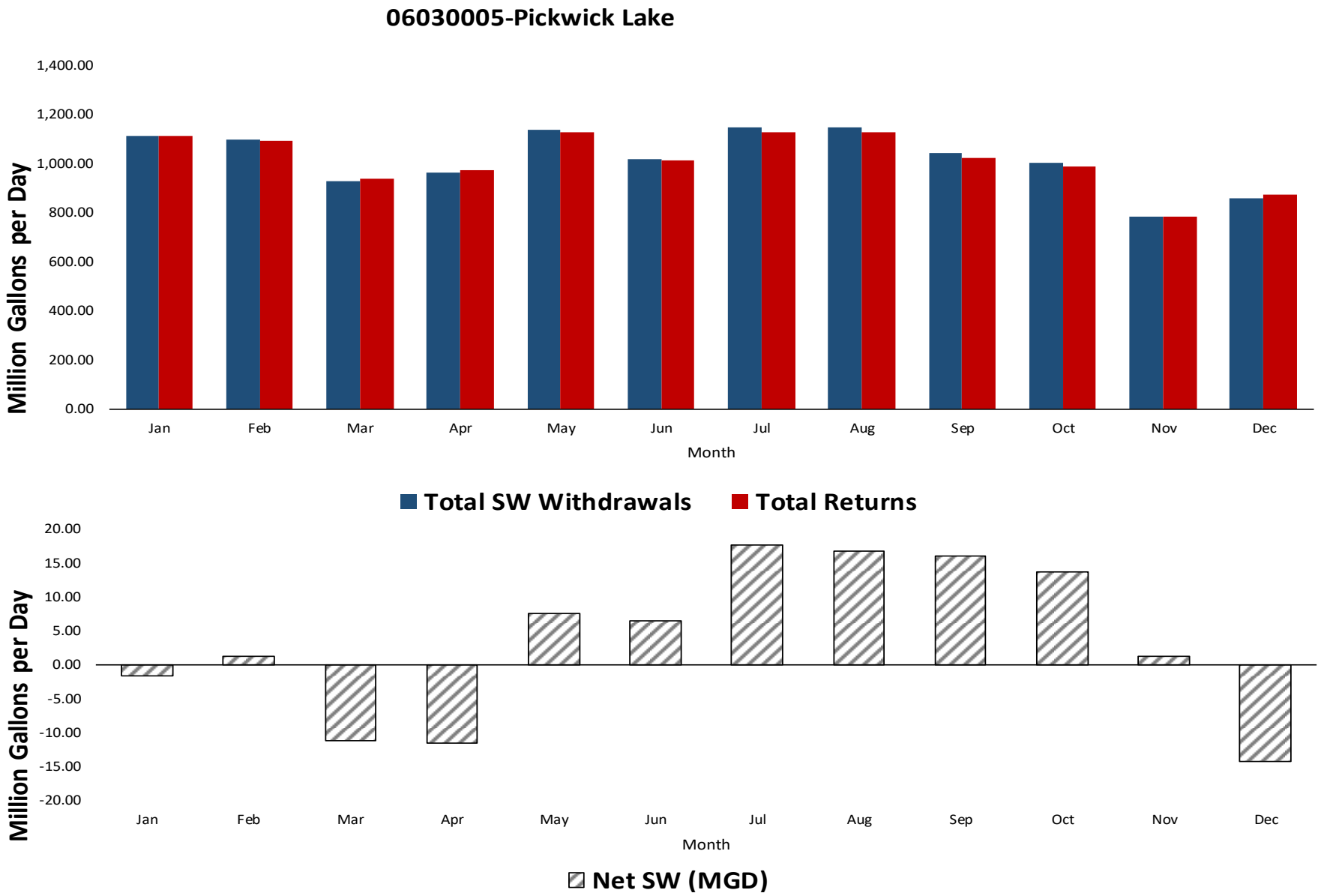
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	3.22	3.20	3.17	3.16	3.25	3.34	3.32	3.23	3.16	3.07	3.10	3.14	3.20
Public Supply	SW	19.70	19.82	19.12	18.67	20.69	21.27	21.76	21.00	21.32	20.31	19.14	18.57	20.11
Industrial/Mining	GW	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Industrial/Mining	SW	29.72	28.90	30.62	31.22	25.70	28.33	27.40	30.91	30.23	31.36	31.40	30.81	29.72
Thermoelectric	SW	1,060.06	1,045.32	872.87	908.30	1,082.00	958.00	1,086.00	1,086.00	983.50	946.77	730.23	807.77	963.99
Agriculture	GW	0.74	0.78	0.99	1.19	1.80	2.63	2.74	2.27	1.48	1.28	0.89	0.78	1.47
Agriculture	SW	1.37	1.40	2.25	3.63	6.14	8.70	9.14	7.70	5.17	4.05	2.04	1.47	4.44
Total	**GW**	**3.99**	**4.03**	**4.21**	**4.39**	**5.10**	**6.01**	**6.10**	**5.54**	**4.68**	**4.39**	**4.03**	**3.96**	**4.71**
Total	**SW**	**1,110.86**	**1,095.44**	**924.85**	**961.82**	**1,134.53**	**1,016.30**	**1,144.29**	**1,145.61**	**1,040.21**	**1,002.49**	**782.81**	**858.62**	**1,018.26**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		16.42	15.84	29.20	28.91	14.22	21.38	13.11	13.29	10.93	11.36	19.61	31.74	18.84
Industrial/Mining		36.84	33.86	34.86	36.95	31.63	31.24	28.39	30.50	30.66	31.59	32.65	34.23	32.78
Thermoelectric		1,059.26	1,044.52	872.07	907.50	1,081.20	957.20	1,085.20	1,085.20	982.70	945.97	729.43	806.97	963.10
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		**1,112.53**	**1,094.22**	**936.14**	**973.36**	**1,127.05**	**1,009.82**	**1,126.70**	**1,128.99**	**1,024.29**	**988.93**	**781.69**	**872.95**	**1,014.72**

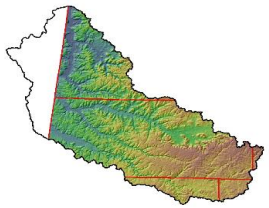
06030005-Pickwick Lake

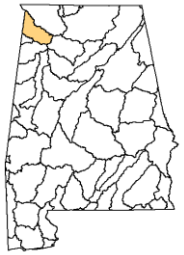
Total SW Withdrawals	SW	1,110.86	1,095.44	924.85	961.82	1,134.53	1,016.30	1,144.29	1,145.61	1,040.21	1,002.49	782.81	858.62	1,018.26
Total GW Withdrawals	GW	3.99	4.03	4.21	4.39	5.10	6.01	6.10	5.54	4.68	4.39	4.03	3.96	4.71
Withdrawal Total		1,114.86	1,099.47	929.06	966.21	1,139.63	1,022.31	1,150.39	1,151.15	1,044.89	1,006.88	786.84	862.59	1,022.97
Total Returns		**1,112.53**	**1,094.22**	**936.14**	**973.36**	**1,127.05**	**1,009.82**	**1,126.70**	**1,128.99**	**1,024.29**	**988.93**	**781.69**	**872.95**	**1,014.72**
Net SW (MGD)	**SW**	**-1.66**	**1.21**	**-11.28**	**-11.55**	**7.48**	**6.48**	**17.60**	**16.62**	**15.92**	**13.57**	**1.12**	**-14.33**	**3.54**


06030005-Pickwick Lake
1,400.00
1,200.00
1,000.00
800.00
600.00
400.00
200.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Subbasin number - Subbasin name

06030006-Bear





Area (Thousand Acres)	795
Estimated Population (2015)	31,851
Subregion:	Middle-Tennessee-Elk

2015 Demands

Withdrawals

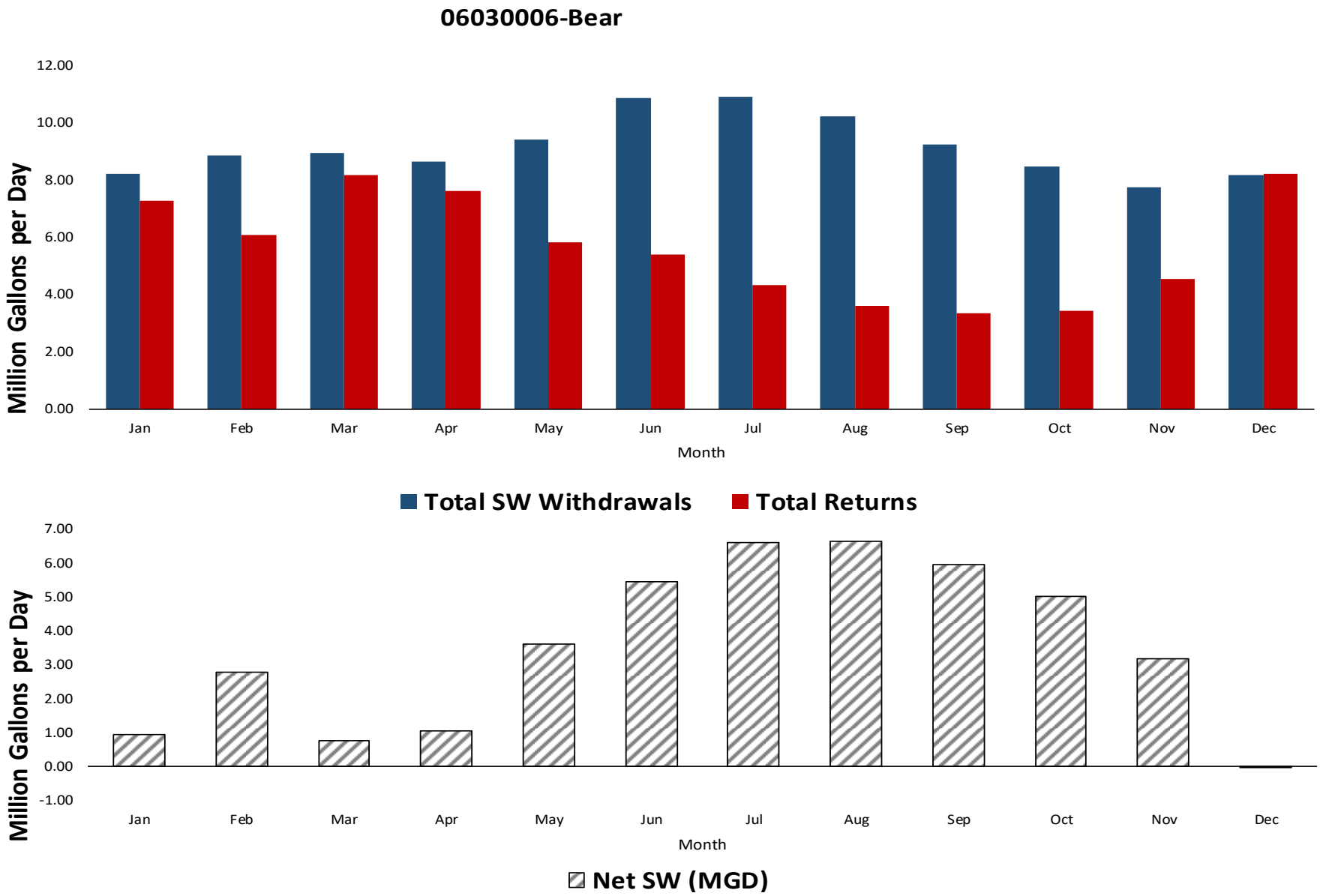
Category	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply/Residential	GW	1.51	1.51	1.48	1.52	1.57	1.58	1.62	1.59	1.51	1.46	1.40	1.47	1.52
Public Supply	SW	7.58	8.19	8.04	7.53	7.62	8.27	8.23	7.93	7.76	7.21	6.98	7.52	7.74
Industrial/Mining	GW	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Industrial/Mining	SW	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
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	0.32	0.40	0.47	0.70	1.02	1.06	0.83	0.50	0.43	0.33	0.32	0.56
Agriculture	SW	0.50	0.53	0.75	1.01	1.66	2.46	2.56	2.16	1.37	1.12	0.62	0.52	1.28
Total	**GW**	**2.11**	**2.10**	**2.16**	**2.26**	**2.53**	**2.86**	**2.95**	**2.69**	**2.27**	**2.15**	**2.00**	**2.05**	**2.35**
Total	**SW**	**8.20**	**8.84**	**8.91**	**8.65**	**9.40**	**10.84**	**10.91**	**10.21**	**9.24**	**8.44**	**7.72**	**8.16**	**9.13**

Returns

Category		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVG
Public Supply		5.92	4.97	6.34	5.70	4.56	3.59	3.10	2.53	2.11	2.22	3.46	7.03	4.29
Industrial/Mining		1.35	1.10	1.84	1.91	1.24	1.80	1.22	1.05	1.20	1.21	1.08	1.19	1.35
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		**7.27**	**6.06**	**8.18**	**7.61**	**5.80**	**5.40**	**4.33**	**3.57**	**3.31**	**3.44**	**4.54**	**8.21**	**5.64**

06030006-Bear

Total SW Withdrawals	SW	8.20	8.84	8.91	8.65	9.40	10.84	10.91	10.21	9.24	8.44	7.72	8.16	9.13
Total GW Withdrawals	GW	2.11	2.10	2.16	2.26	2.53	2.86	2.95	2.69	2.27	2.15	2.00	2.05	2.35
Withdrawal Total		10.31	10.94	11.07	10.91	11.93	13.71	13.85	12.90	11.51	10.60	9.72	10.21	11.48
Total Returns		**7.27**	**6.06**	**8.18**	**7.61**	**5.80**	**5.40**	**4.33**	**3.57**	**3.31**	**3.44**	**4.54**	**8.21**	**5.64**
Net SW (MGD)	**SW**	**0.94**	**2.78**	**0.74**	**1.04**	**3.61**	**5.45**	**6.58**	**6.63**	**5.93**	**5.01**	**3.18**	**-0.06**	**3.49**


06030006-Bear
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Total SW Withdrawals
Total Returns
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
Million Gallons per Day
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month
Net SW (MGD)

Appendix F

Public-Supplier Survey Form

Each of the public water suppliers was surveyed to determine the amount of water delivered to residential, commercial, and industrial customers and public use and losses. The public suppliers surveyed either withdrew their own water from a groundwater or surface-water source, or purchased water, or relied on a combination of sources that could include groundwater, surface water, or purchased water. Public suppliers differ as to how water is accounted for within the system, and the questions in the survey (figure F-1) cover the range of possible combinations of customer billing classes.

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Figure F-1. Public Supplier Survey Form.

Alabama Public Water System

COU# _____ - System Name_____

2015 Information Update

WATER SYSTEM SURVEY - 2015 WATER USE DATA

Name: _____ Title: _____

Phone: _____ Fax: _____

E-mail: _____ Date: _____

1. Does your water system have a strategic long term/short term plan outlining future capacity needs?
   □ Yes □ No, if Yes, please send a copy of the plan to OWR. □ Attached □ Previously Submitted
2. Does your water system have a Service Area Map dictating the boundaries of the water system?
   □ Yes □ No, if Yes, please send a copy of the map to OWR. □ Attached □ Previously Submitted
3. Does your water system have a Water Conservation or Drought Plan?
   □ Yes □ No, if Yes, please send a copy of the plan to OWR. □ Attached □ Previously Submitted

(NOTE: If you have already submitted any of this information to OWR, there is no need to resubmit.)

Reporting Period: Calendar Year January 2015 – December 2015

Water Volume Units Reported (For information requested below)

Check one: □ Gallons □ Thousand Gallons □ Million Gallons

4. Total amount of raw water withdrawals _____
5. Total amount of water sold to other public water systems _____
6. Number of public water systems to which water was sold _____
7. Total amount of water sold to residential customers _____
8. Number of billed residential accounts for period of record* _____
   *average monthly number of billed residential accounts
9. Total amount of water sold to commercial customers _____
10. Number of billed commercial accounts for period of record _____
11. Total amount of water sold to industrial customers _____
12. Number of billed industrial accounts for period of record _____
13. Total amount of water used for purposes such as firefighting, flushing, maintenance, and other public uses and/or losses _____

    Or percentage of water used for such purposes. _____

    *NOTE: If you do not separate residential, commercial and industrial customers, please check the box below and report all values under Question # 7 above.

    □ We do not separate residential, commercial and industrial customers.
14. Please list information relating to the five (5) largest commercial/industrial users on your system.

Name of User	Type of Use	NAICS Code	Water sold/year

Please return this Survey Form by March 31, 2016 with your 2015 Water Use Report.

Appendix G

Irrigation Survey Form

Each of the registered irrigators was surveyed to determine the amount of water delivered for irrigation. The irrigators surveyed withdrew their water from a groundwater or surface-water source and the survey form (figure G-1) helps to collect additional details on other aspects of the irrigation water usage.

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Figure G-1. Irrigation Survey Form.

Water Use Reporting Program

COU #____ - System Name _____

ALABAMA IRRIGATION WATER SURVEY - 2015 WATER USE DATA

1. Purpose(s) of Water Use: (Select all that apply) ☐ Agriculture ☐ Golf Course ☐ Turf ☐ Nursery ☐ Aquaculture ☐ Livestock ☐ Other_____
2. Total Acres Irrigated* _____
   *If purpose of water is livestock and/or aquaculture, please put N/A.
3. Type of irrigation system ☐ Center Pivot ☐ Drip Irrigation ☐ Micro-Irrigation ☐ Sprinkler
4. For irrigated agriculture, please list the types of crops grown and acreage irrigated of each crop as well as estimates of water use. (*For Golf Courses, Turf, and Nurseries please skip to Question # 5.)

Crop Type	Acreage Irrigated	Amount of Water Applied (Whole Year in Gallons)

5. For Golf Courses, Turf and Nurseries, please list out acreage irrigated and estimated amount of water applied.

Acreage Irrigated	Amount of Water Applied (Whole Year in Gallons)

6. How many groundwater and/or surface water withdrawals do you have? _____
7. Do you have all withdrawals registered with OWR? ☐ Yes ☐ No (All registered withdrawals should have reporting forms included with this package.) If No, please contact OWR to start the modification process on any withdrawals not registered.

2015 Annual Reporting Forms – Irrigation Page 3 of 3

Appendix H

Hydroelectric Dams

Table H-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 H-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.

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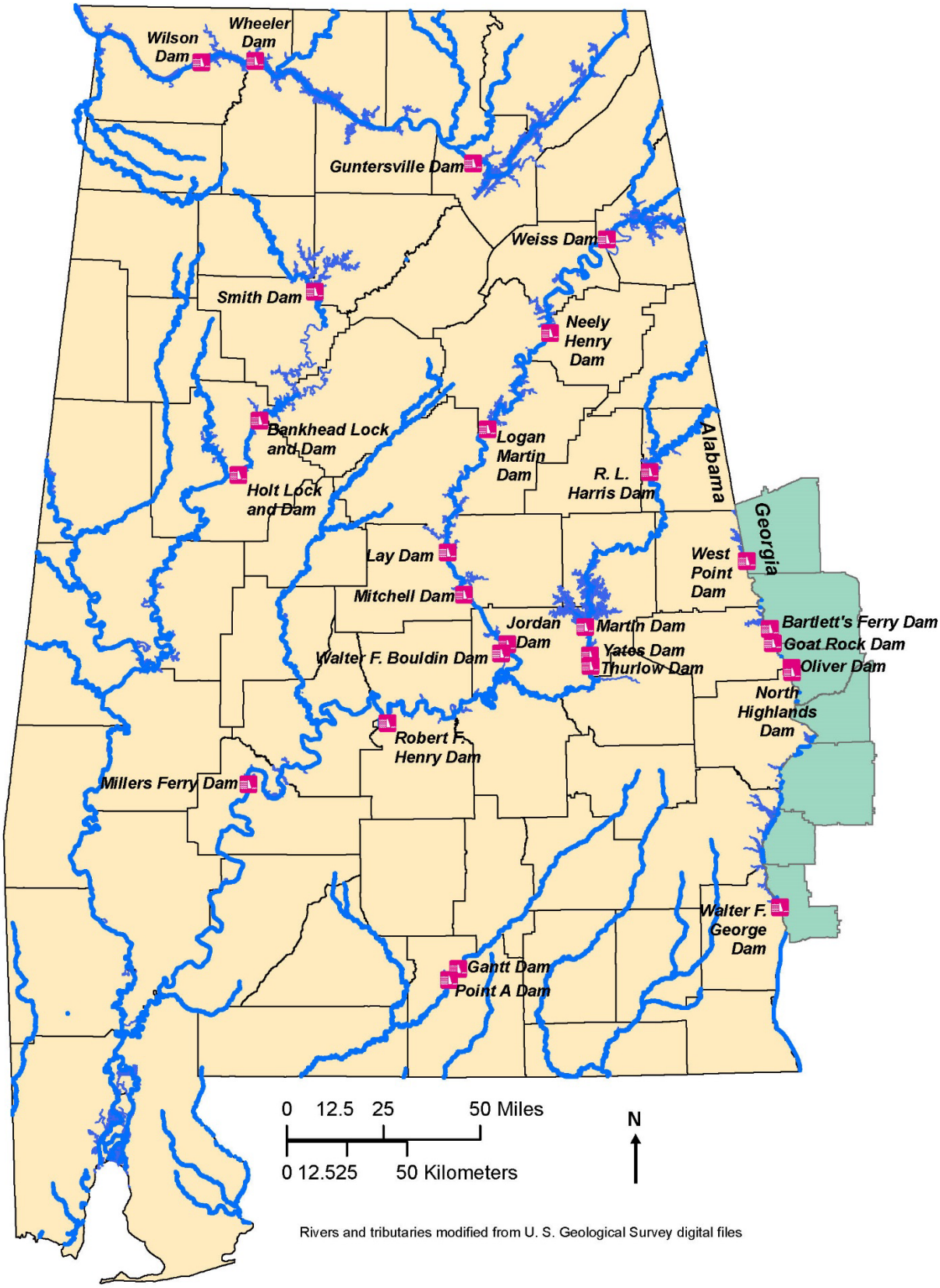
Table H-1. Hydroelectric dams in Alabama, 2010

[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 H-1. Hydroelectric dams in Alabama, 2010.



Appendix I

2010 and 2015 Streamflow Comparison to Statistical Summaries by Subbasin

This appendix contains a summary for each of the 53 subbasins that includes a chart at the top representing the monthly statistical streamflow data for the period of record (1975-2014) which is overlaid with the average monthly flows for both 2010 and 2015. The table below each chart contains the tabular data.

(CFS – cubic feet per second; DA – drainage area, in square miles)

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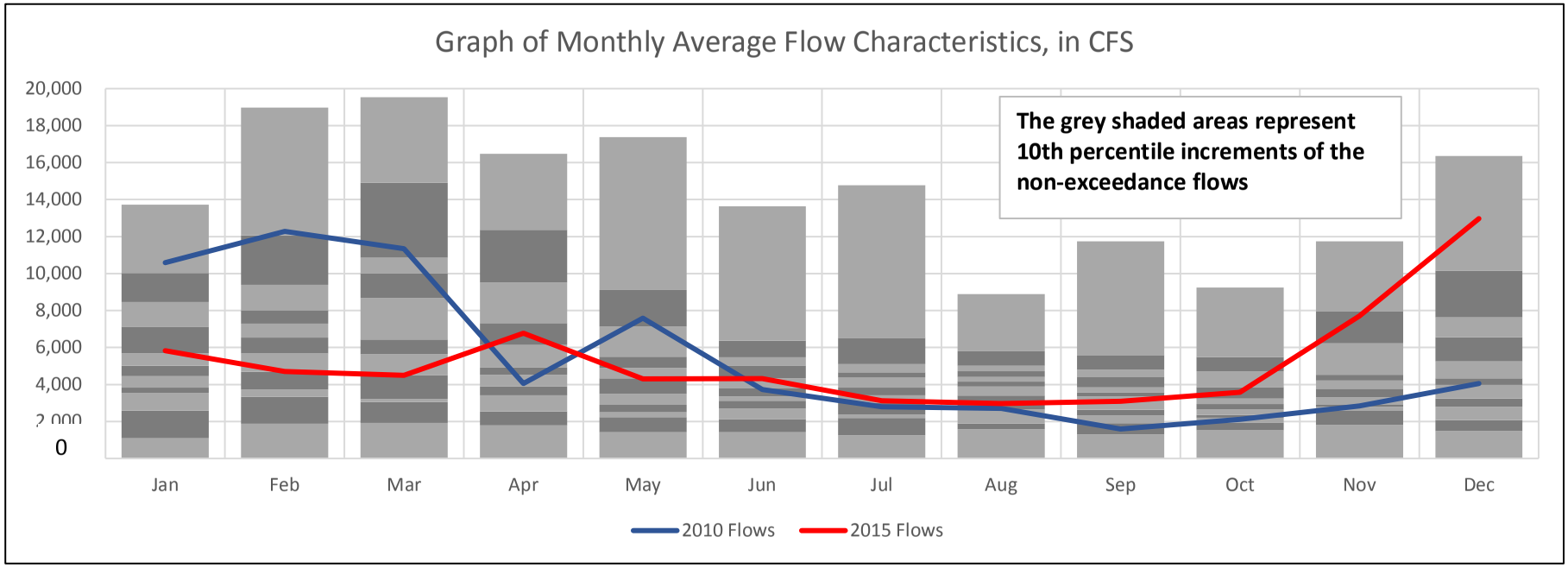
Gage#: 03130002 Name: Middle Chattahoochee - Lake Harding

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 559 square miles



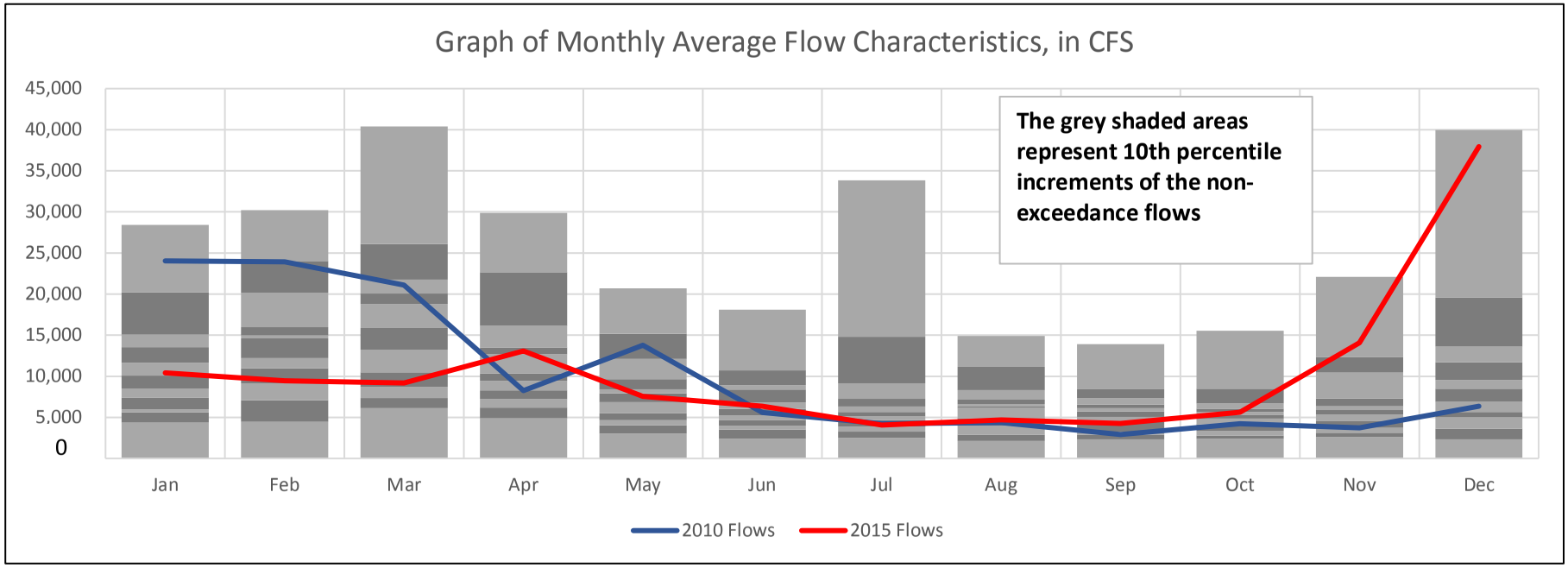
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	10,590	12,280	11,340	4,058	7,585	3,733	2,790	2,707	1,595	2,118	2,839	4,057
2015 Flows	5,829	4,705	4,497	6,778	4,305	4,313	3,116	2,971	3,092	3,575	7,709	12,970

Gage#: 03130003 Name: Middle Chattahoochee - Walter F. George

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,427 square miles



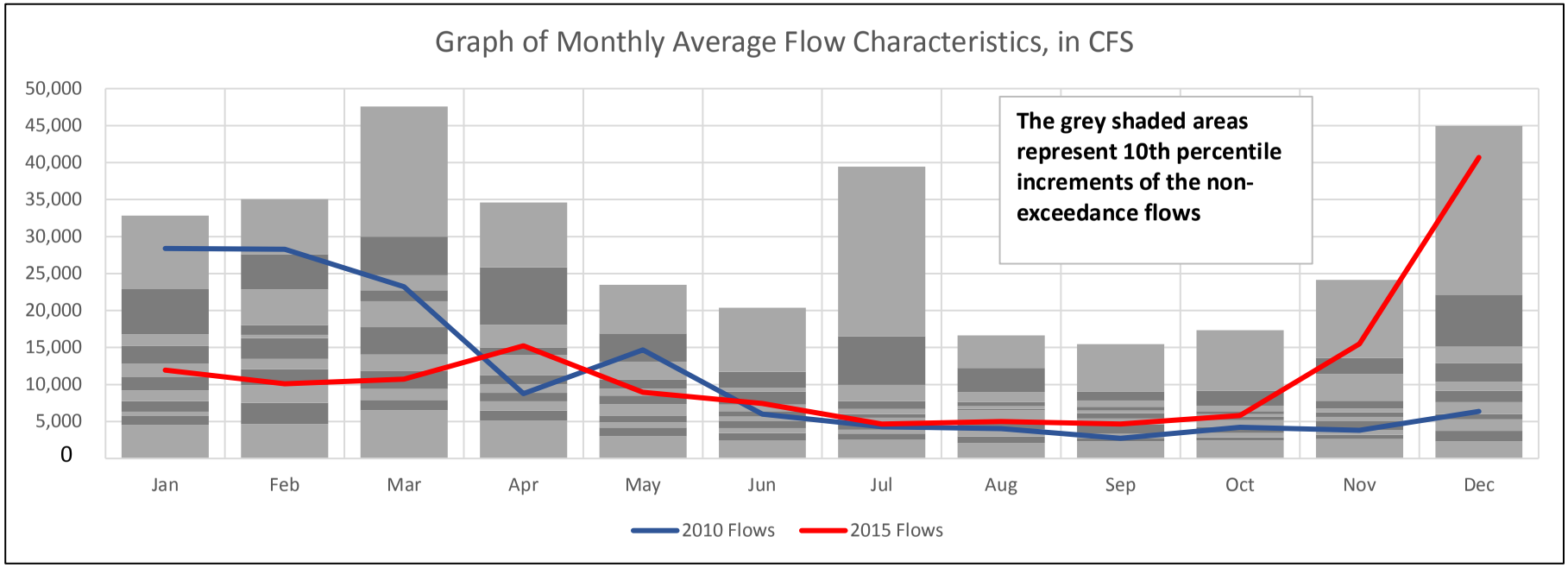
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	24,040	23,940	21,110	8,266	13,790	5,606	4,223	4,347	2,917	4,229	3,739	6,345
2015 Flows	10,410	9,453	9,180	13,090	7,571	6,361	4,067	4,706	4,268	5,612	14,070	37,940

Gage#: 03130004 Name: Lower Chattahoochee

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 578 square miles



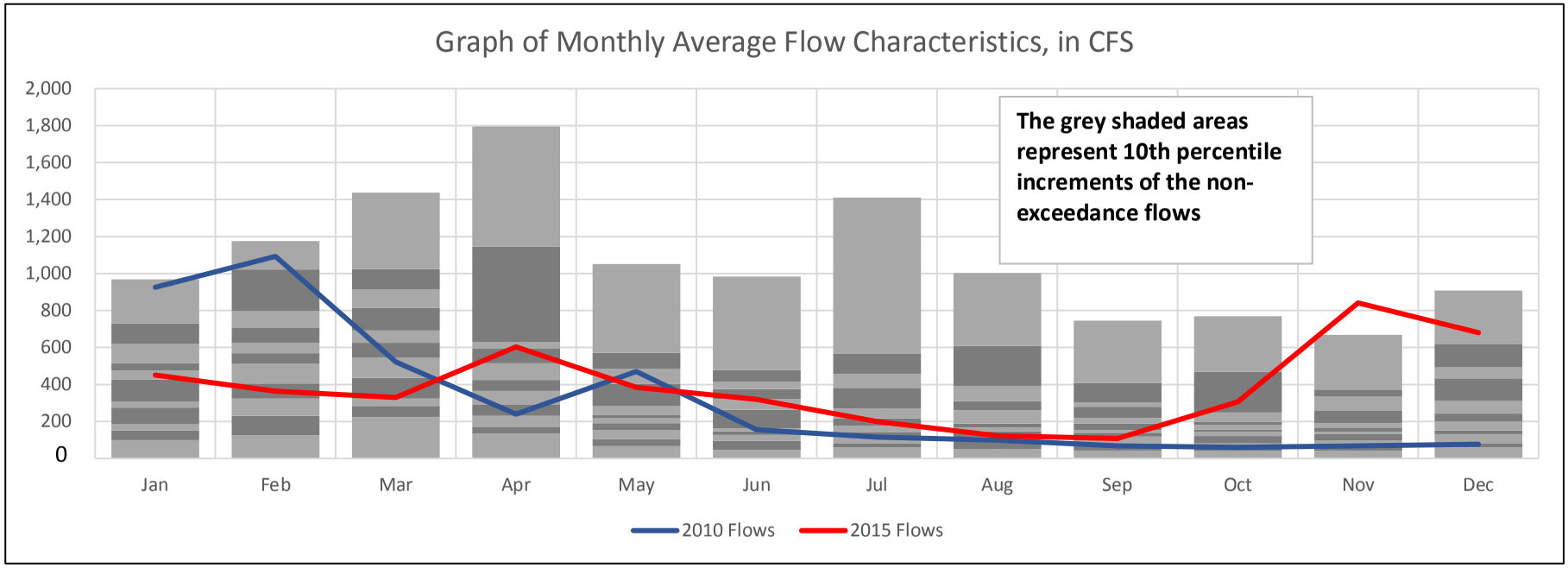
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	28,391	28,287	23,219	8,775	14,688	6,005	4,280	4,049	2,730	4,204	3,822	6,349
2015 Flows	11,931	10,082	10,718	15,248	8,935	7,430	4,658	5,008	4,668	5,807	15,507	40,695

Gage#: 03130012 Name: Chipola

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 265 square miles



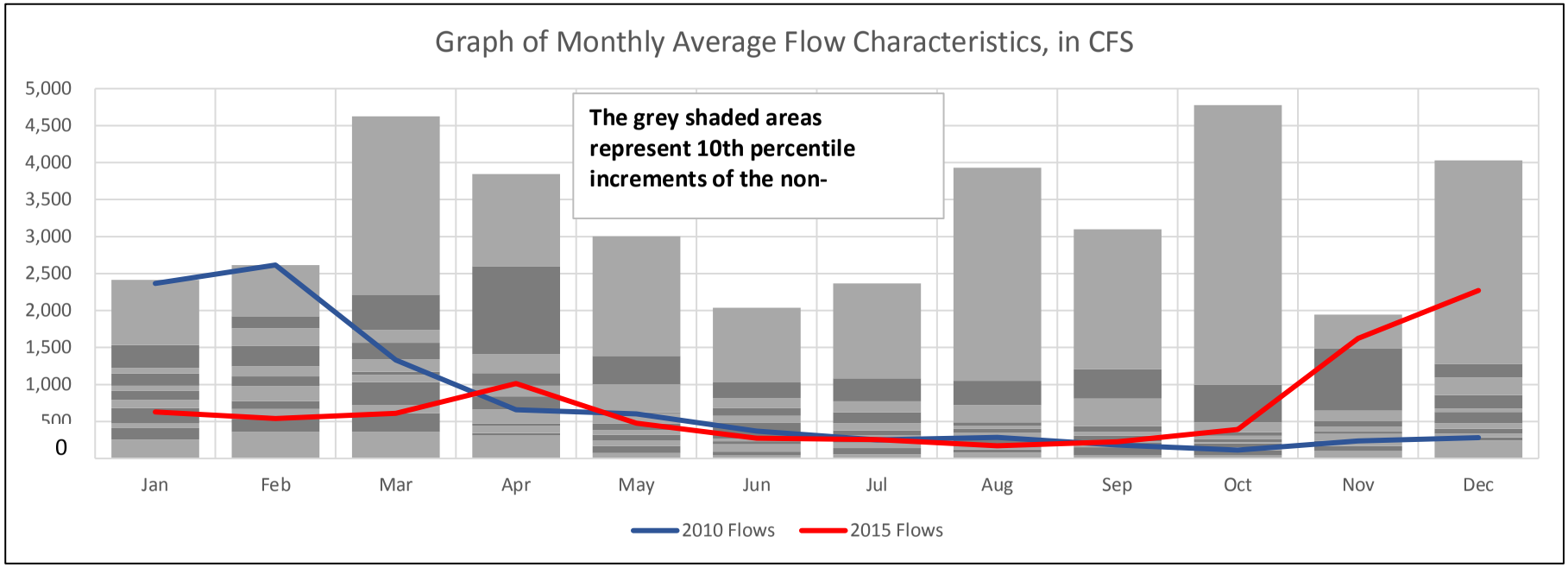
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	926	1,093	522	240	471	156	116	100	68	61	68	77
2015 Flows	450	364	330	603	385	320	199	123	108	306	841	680

Gage#: 03140103 Name: Yellow

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 515 square miles



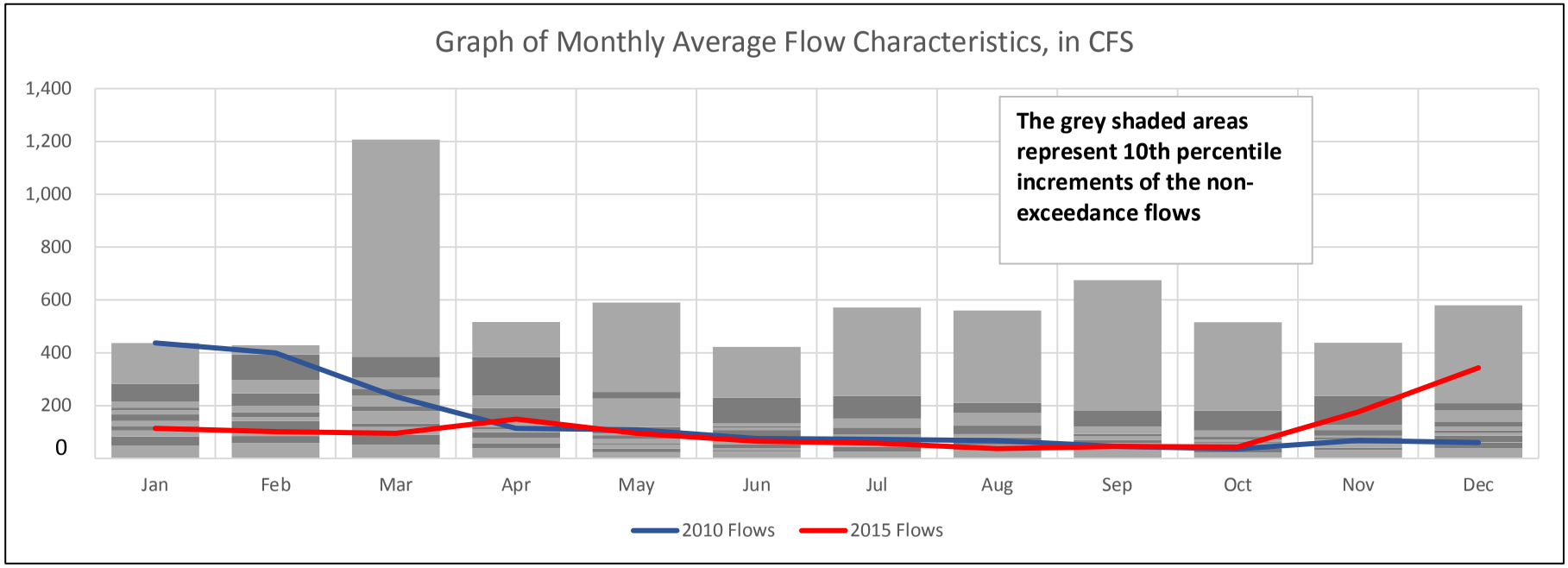
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,368	2,615	1,331	659	603	369	252	283	182	114	237	283
2015 Flows	628	539	609	1,012	477	275	257	172	225	392	1,622	2,271

Gage#: 03140104 Name: Blackwater

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 146 square miles



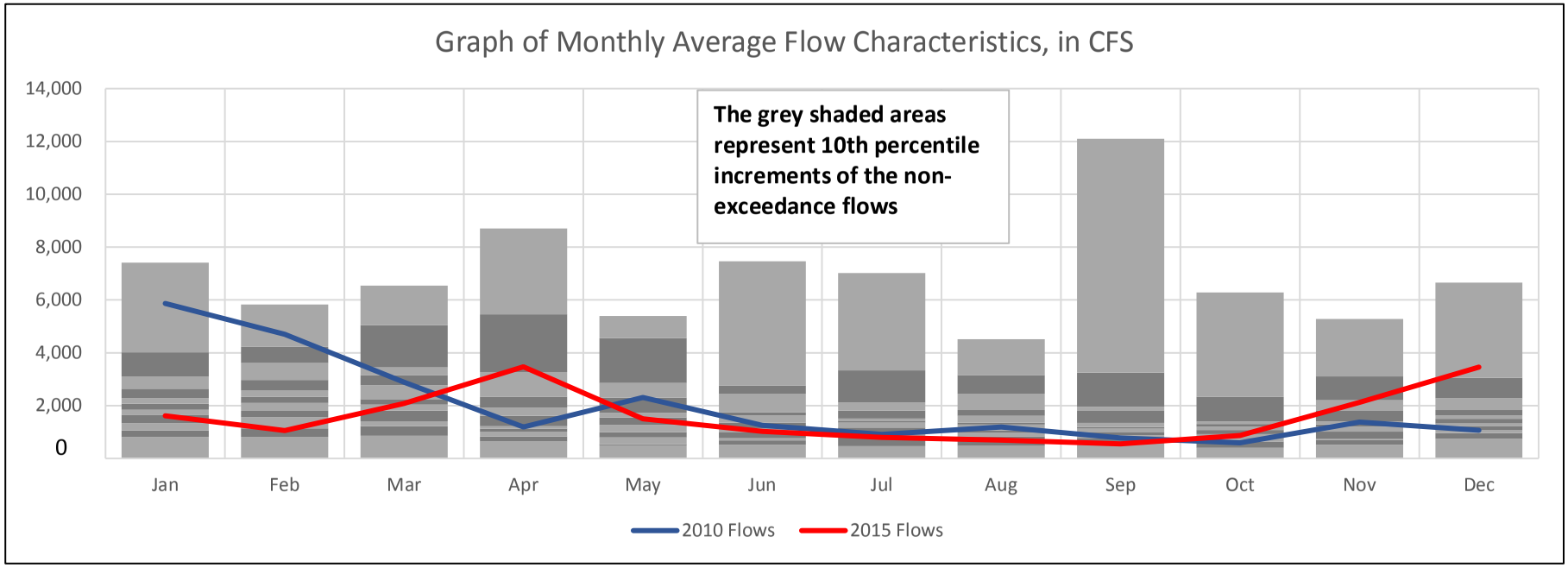
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	437	400	235	114	109	76	72	67	46	36	68	61
2015 Flows	114	101	95	149	95	66	59	37	46	44	176	343

Gage#: 03140106 Name: Perdido

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 680 square miles



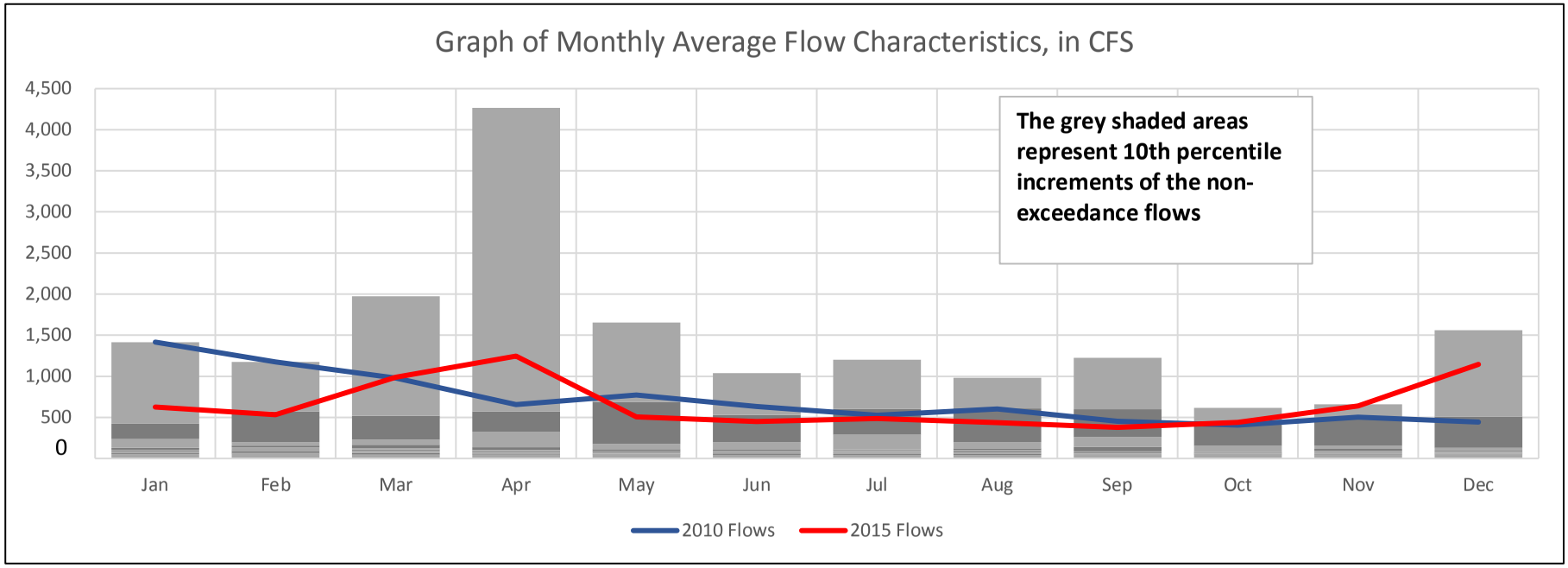
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	5,868	4,703	2,890	1,190	2,307	1,250	911	1,190	777	593	1,379	1,068
2015 Flows	1,616	1,061	2,080	3,471	1,499	1,023	801	696	553	869	2,119	3,464

Gage#: 03140107 Name: Perdido Bay

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 161 square miles



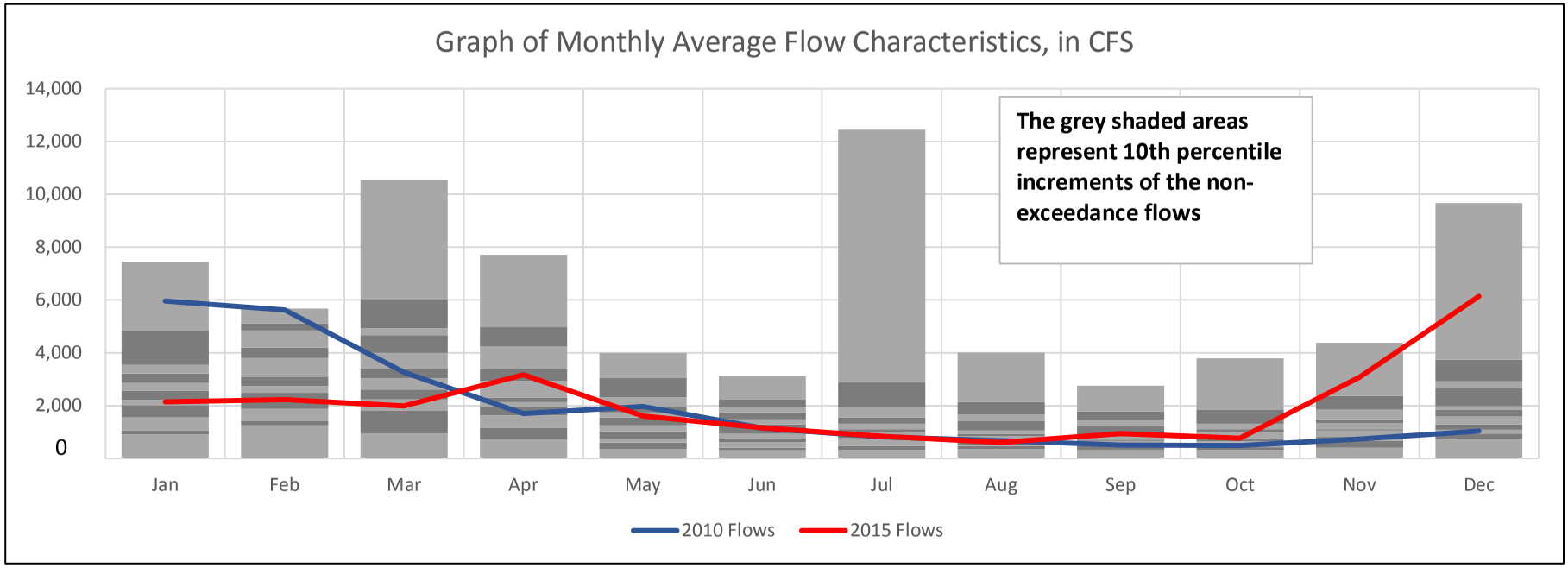
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	186	213	245	297	208	188	217	189	198	146	153	183
100%	1,416	1,176	1,972	4,267	1,655	1,037	1,203	982	1,226	616	659	1,560
98%	745	985	1,251	1,761	1,080	906	1,025	840	777	596	573	830
95%	502	685	983	884	832	745	841	668	648	540	504	616
90%	424	574	518	574	690	531	601	608	598	454	487	511
75%	156	178	207	320	133	117	165	145	170	103	132	108
50%	96	103	109	89	86	84	78	92	74	65	75	78
25%	73	81	86	64	57	62	68	62	59	58	64	66
10%	63	61	66	57	51	54	55	58	55	51	55	57
5%	60	55	62	49	43	51	54	45	52	51	50	56
2%	55	53	52	47	43	47	50	44	51	46	49	50
0%	51	52	48	46	42	45	42	43	49	42	47	50
2010 Flows	1,416	1,176	980	655	771	633	526	604	453	406	502	442
2015 Flows	625	532	990	1,246	506	451	485	437	379	439	639	1,146

Gage#: 03140201 Name: Upper Choctawhatchee

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,543 square miles



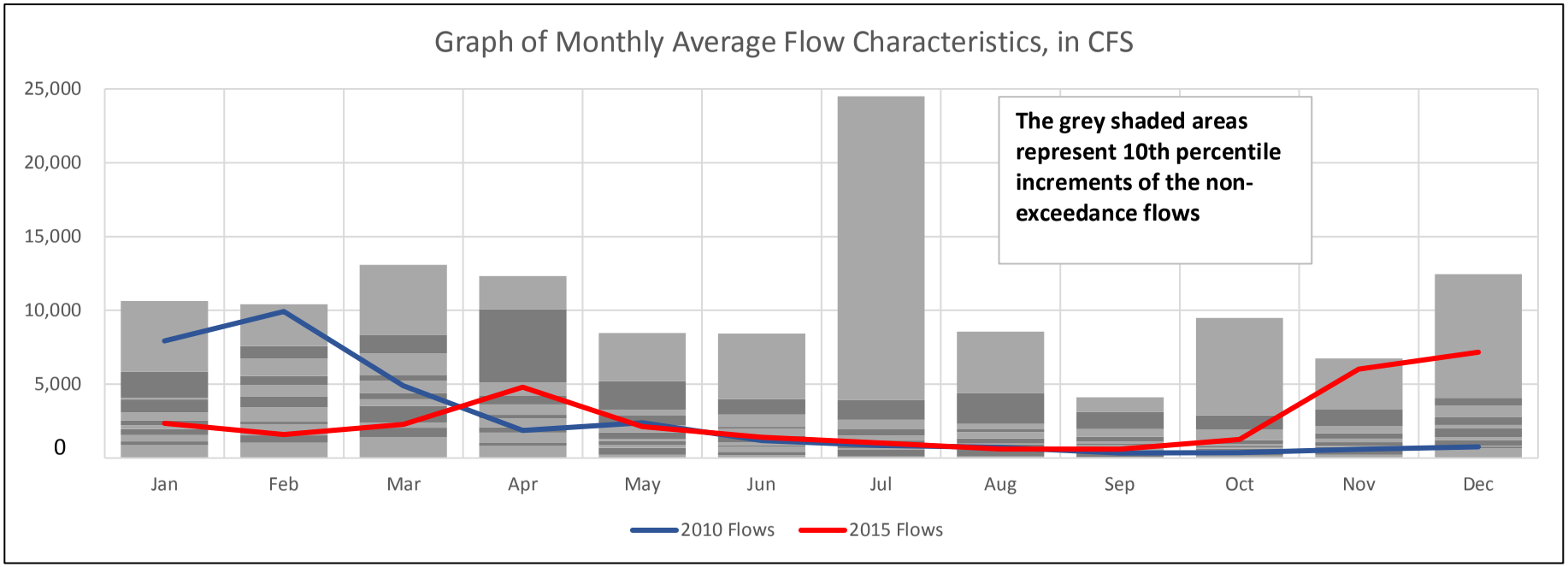
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	5,959	5,617	3,261	1,699	1,964	1,151	818	678	504	491	737	1,040
2015 Flows	2,146	2,229	1,985	3,164	1,609	1,158	838	607	944	769	3,076	6,137

Gage#: 03140202 Name: Pea

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,445 square miles



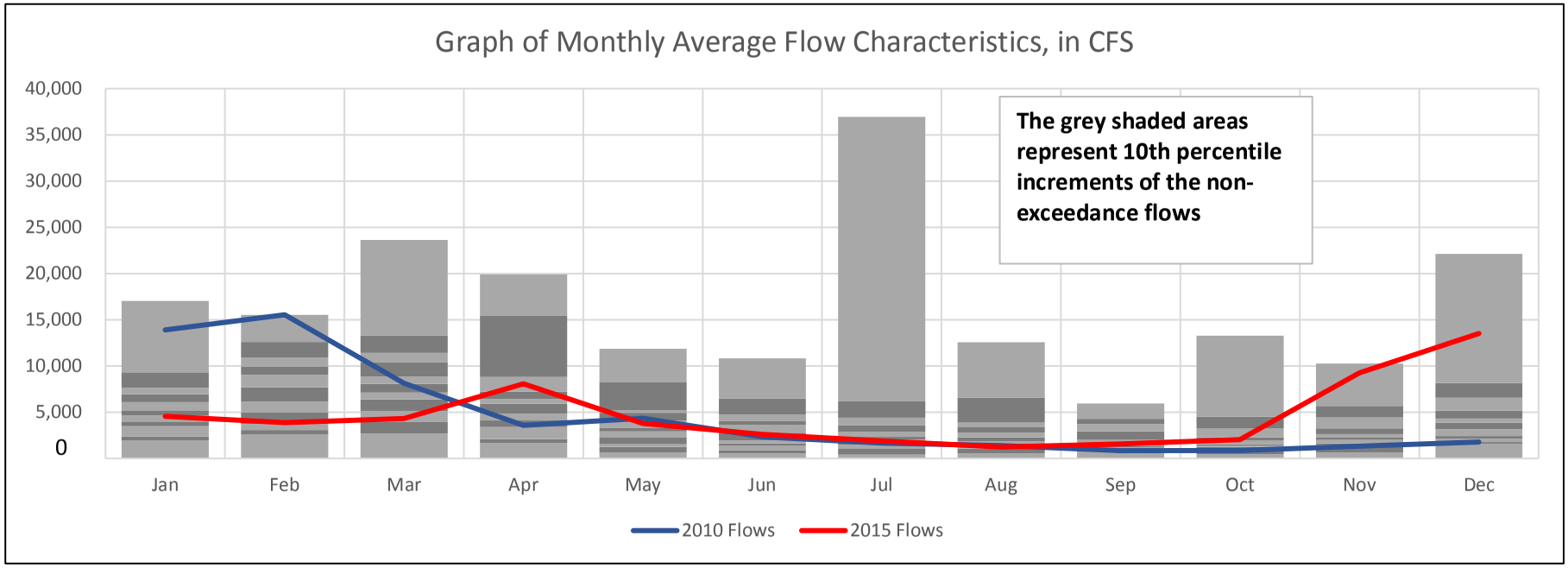
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	7,941	9,926	4,889	1,879	2,394	1,185	848	730	342	364	590	752
2015 Flows	2,353	1,592	2,281	4,794	2,128	1,402	1,027	612	605	1,255	6,032	7,169

Gage#: 03140203 Name: Lower Choctawhatchee

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 135 square miles



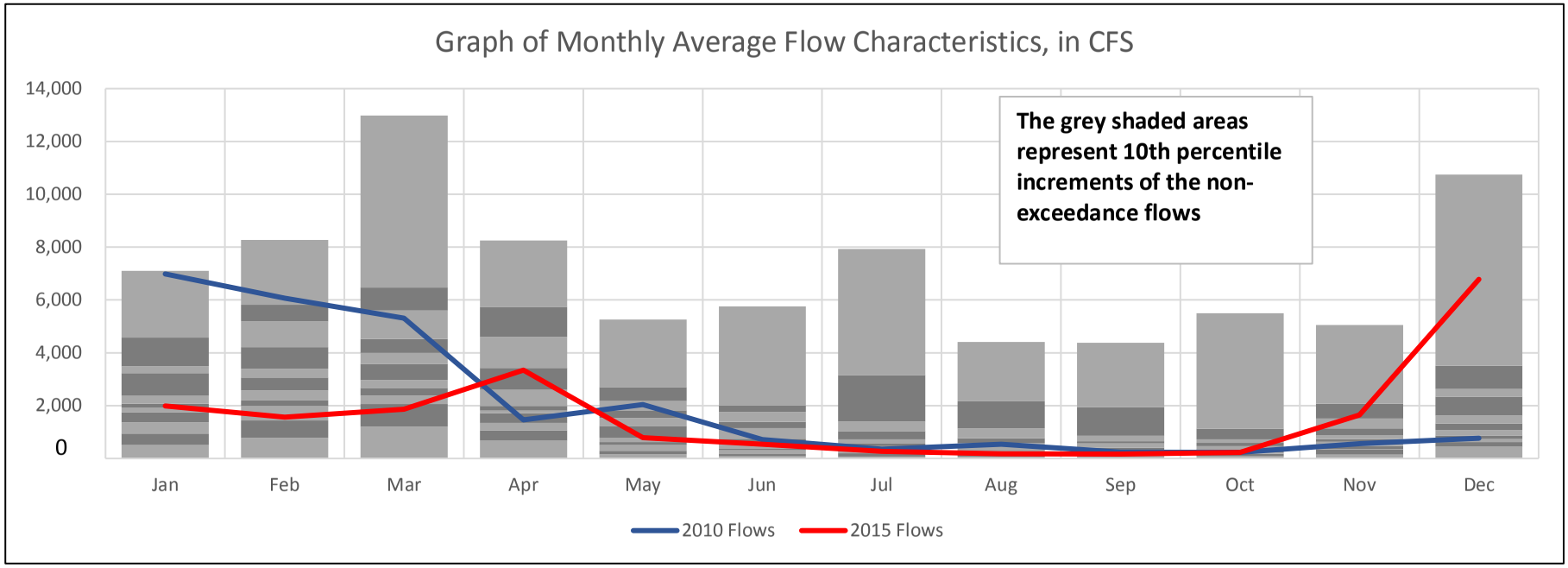
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	13,900	15,544	8,150	3,577	4,358	2,336	1,666	1,408	847	855	1,327	1,793
2015 Flows	4,570	3,882	4,332	8,083	3,796	2,601	1,894	1,238	1,574	2,055	9,252	13,516

Gage#: 03140301 Name: Upper Conecuh

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 822 square miles



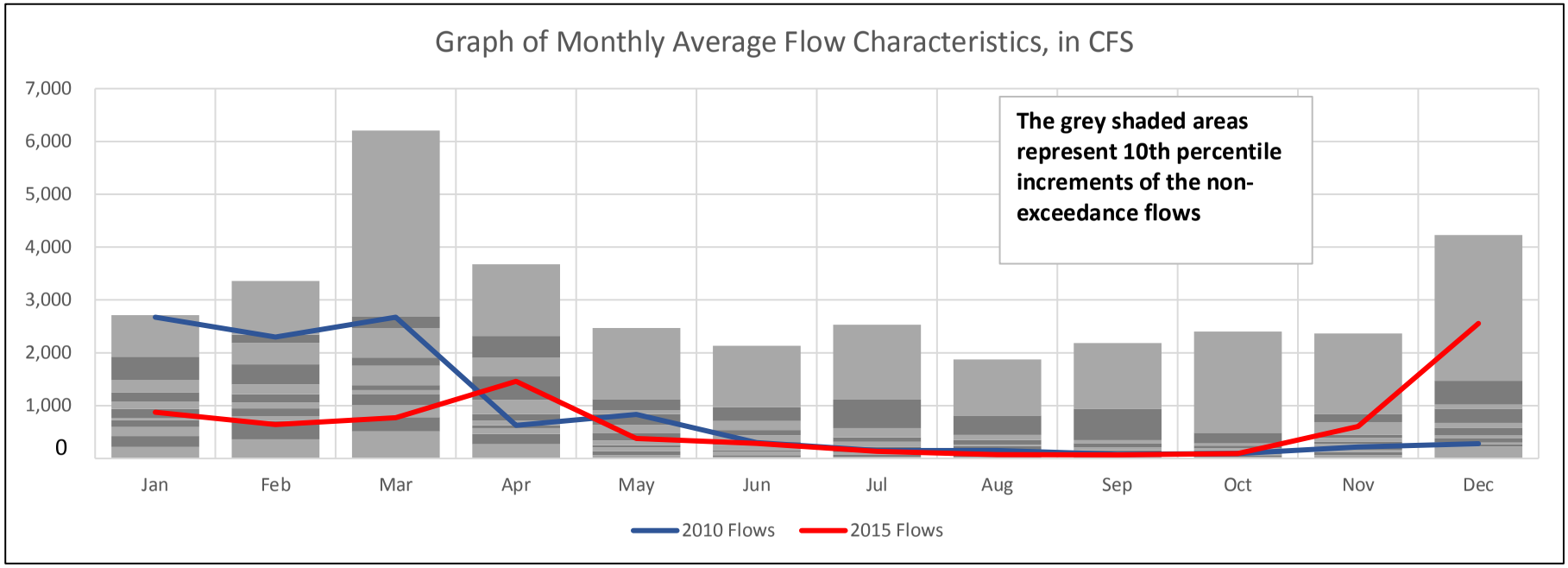
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	6,985	6,066	5,309	1,458	2,043	712	350	539	238	233	557	763
2015 Flows	1,990	1,564	1,868	3,348	784	537	273	176	168	234	1,646	6,781

Gage#: 03140302 Name: Patsaliga

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 600 square miles



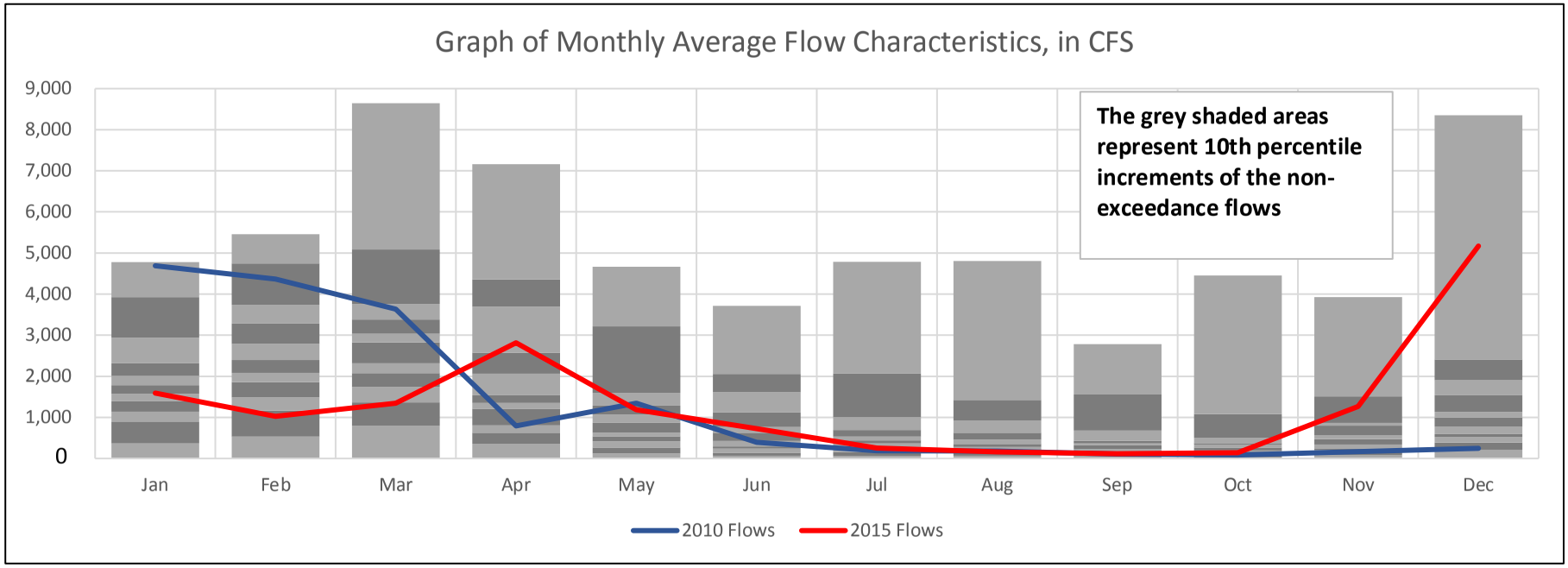
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,674	2,298	2,674	629	835	299	149	153	80	94	219	278
2015 Flows	876	642	773	1,462	380	286	133	71	68	94	605	2,556

Gage#: 03140303 Name: Sepulga

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,049 square miles



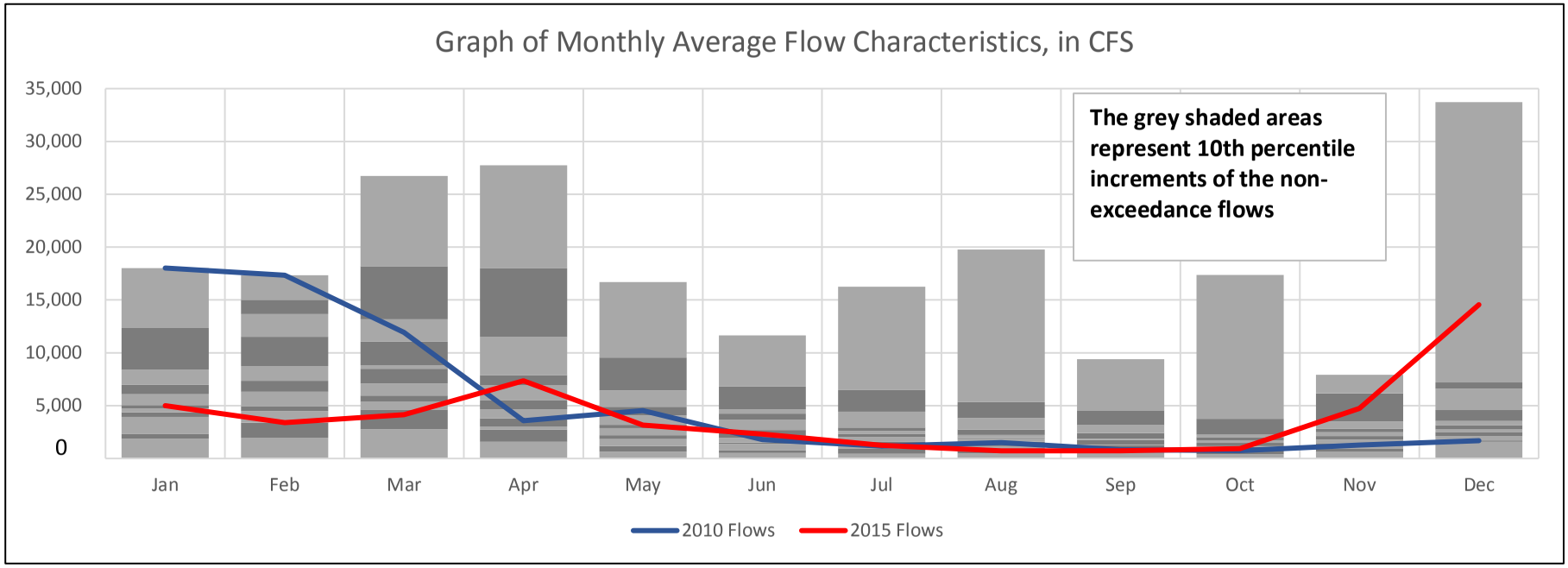
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	4,689	4,366	3,633	789	1,348	392	187	182	106	85	165	249
2015 Flows	1,589	1,024	1,346	2,815	1,182	728	254	163	116	139	1,264	5,169

Gage#: 03140304 Name: Lower Conecuh

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,000 square miles



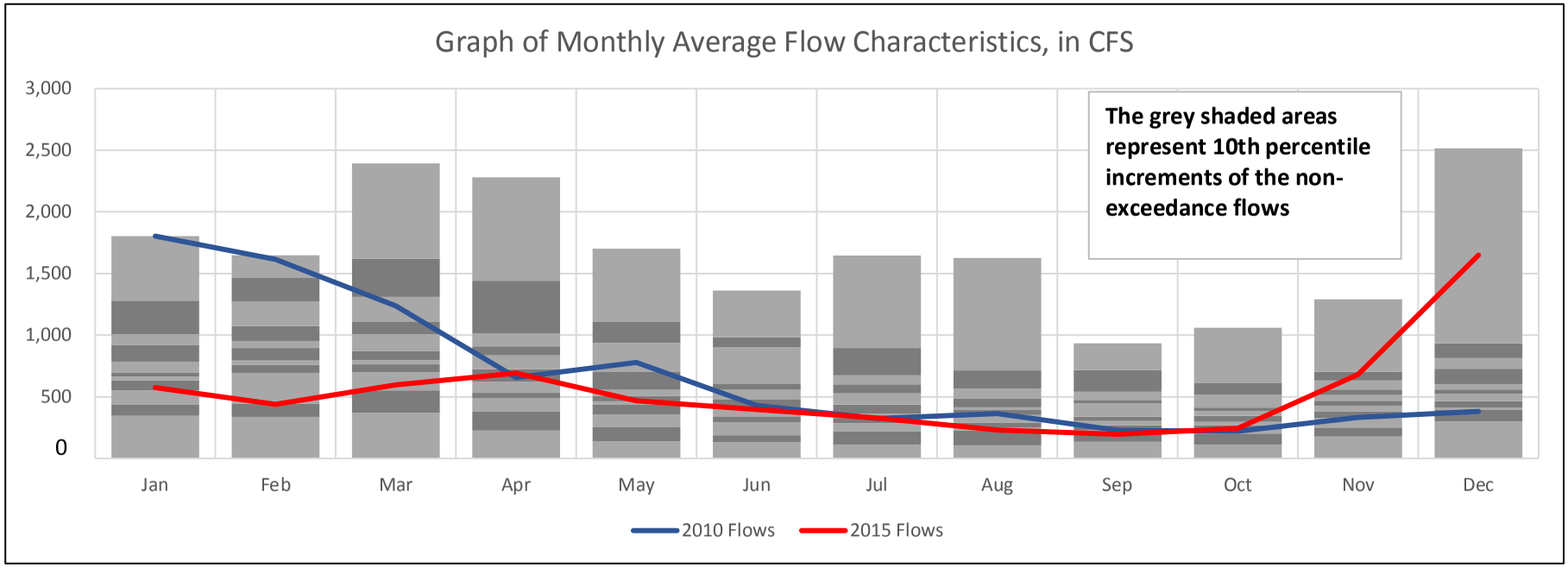
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	18,022	17,330	11,945	3,582	4,539	1,801	1,168	1,494	845	742	1,264	1,674
2015 Flows	5,007	3,396	4,156	7,341	3,152	2,309	1,239	724	733	931	4,751	14,552

Gage#: 03140305 Name: Escambia

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 366 square miles



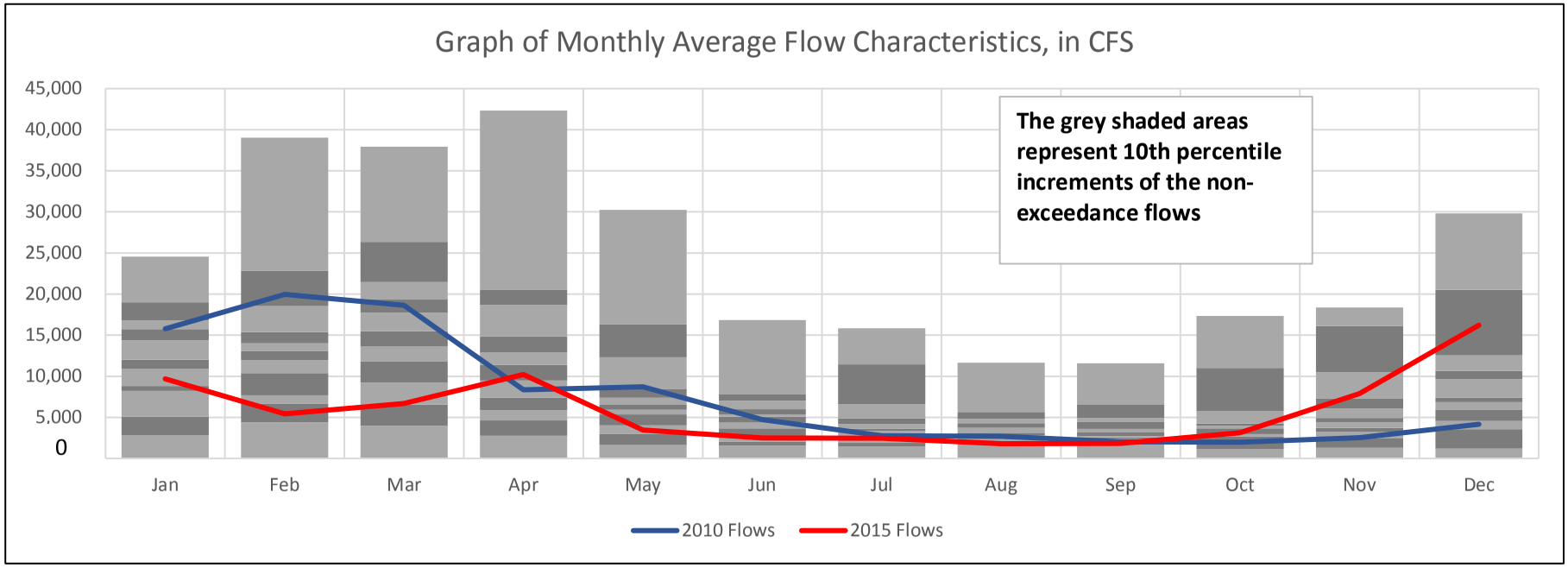
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	1,804	1,615	1,239	657	778	431	324	363	228	221	334	382
2015 Flows	574	440	597	692	468	397	329	232	197	244	681	1,649

Gage#: 03150105 Name: Upper Coosa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 851 square miles



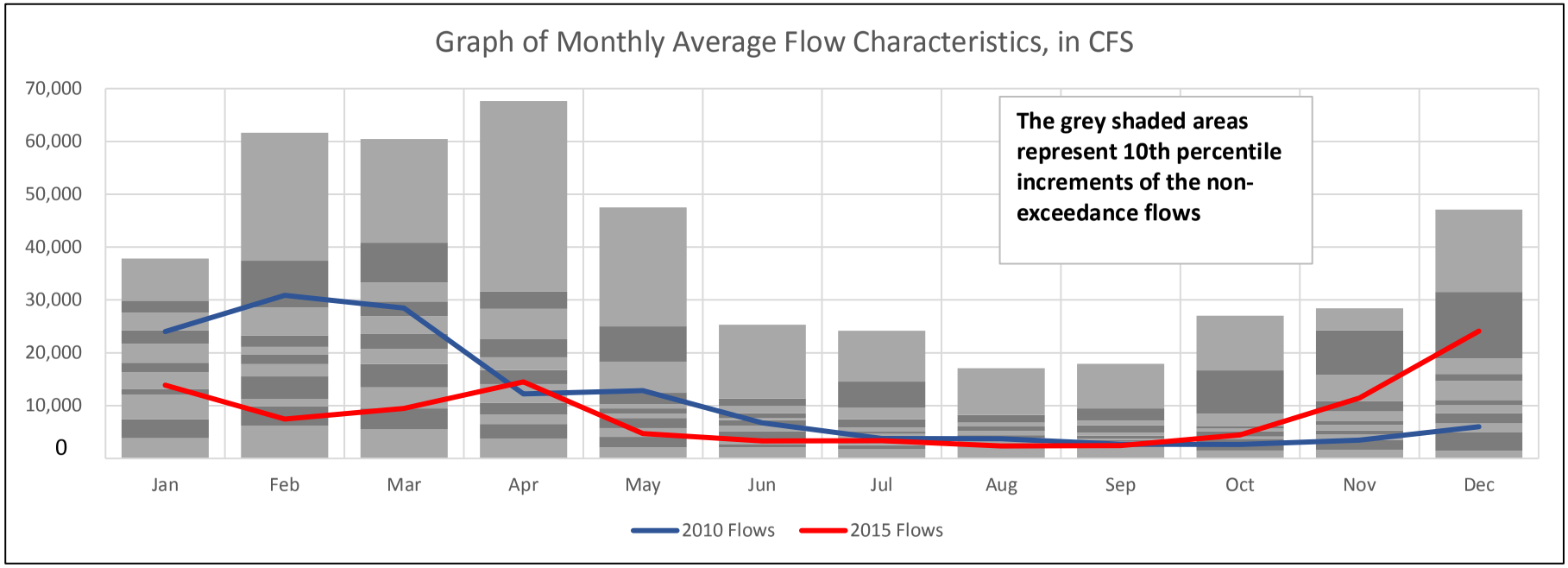
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	15,767	19,964	18,646	8,347	8,726	4,732	2,760	2,691	2,027	1,980	2,521	4,173
2015 Flows	9,679	5,412	6,703	10,206	3,459	2,497	2,474	1,798	1,832	3,144	7,874	16,216

Gage#: 03150106 Name: Middle Coosa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 2,582 square miles



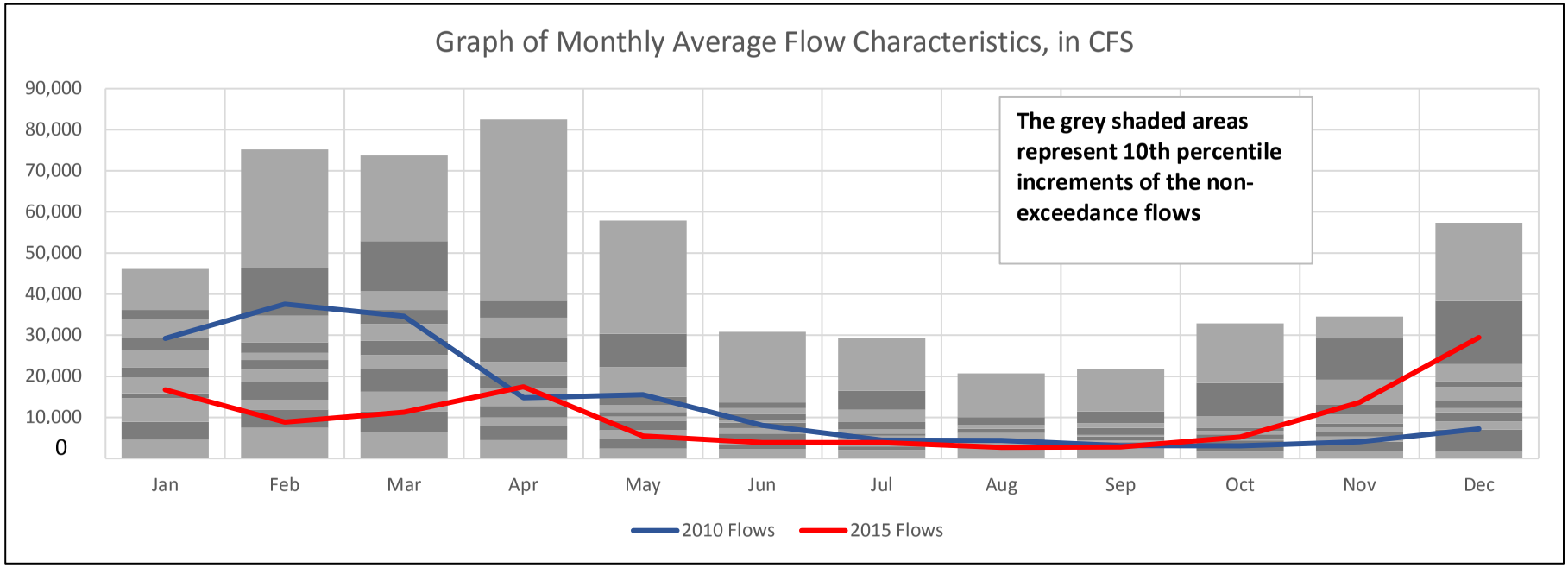
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	24,032	30,877	28,461	12,207	12,827	6,748	3,811	3,718	2,711	2,654	3,481	6,033
2015 Flows	13,890	7,478	9,493	14,480	4,703	3,336	3,378	2,371	2,446	4,444	11,420	24,110

Gage#: 03150107 Name: Lower Coosa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,961 square miles



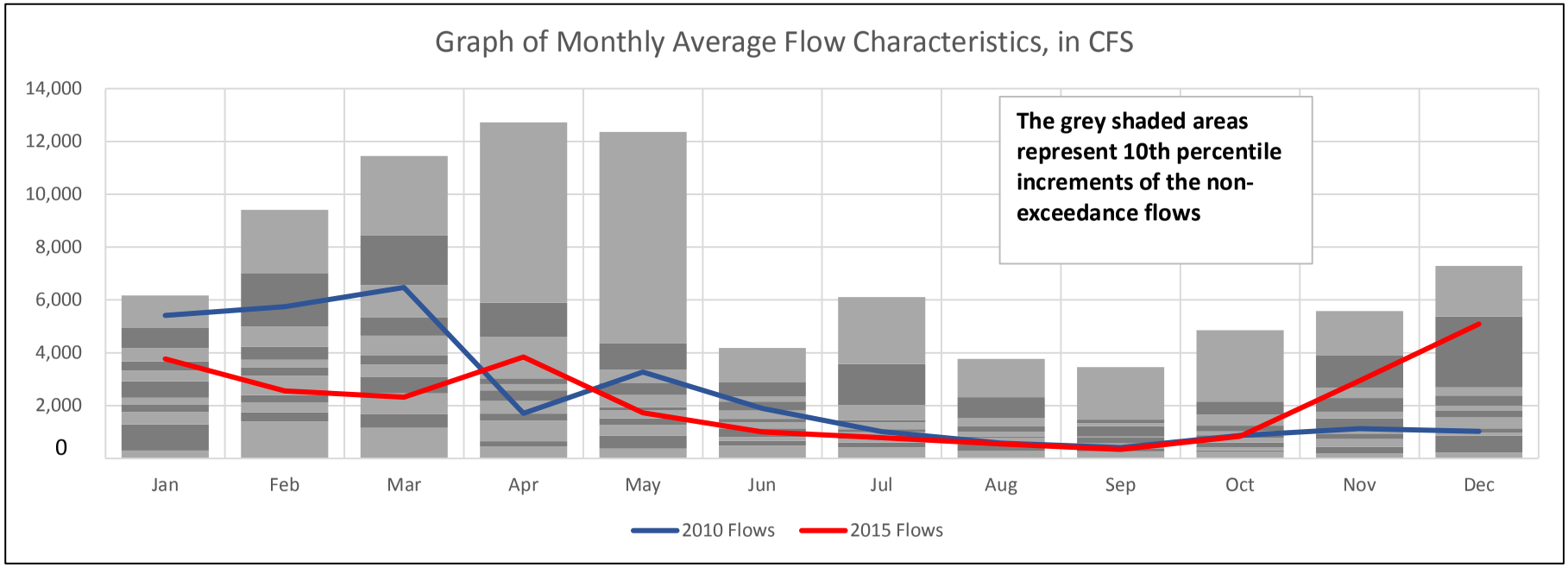
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	29,200	37,560	34,610	14,750	15,510	8,078	4,490	4,376	3,146	3,075	4,087	7,206
2015 Flows	16,696	8,829	11,286	17,426	5,479	3,848	3,898	2,708	2,796	5,169	13,649	29,446

Gage#: 03150108 Name: Upper Tallapoosa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 744 square miles



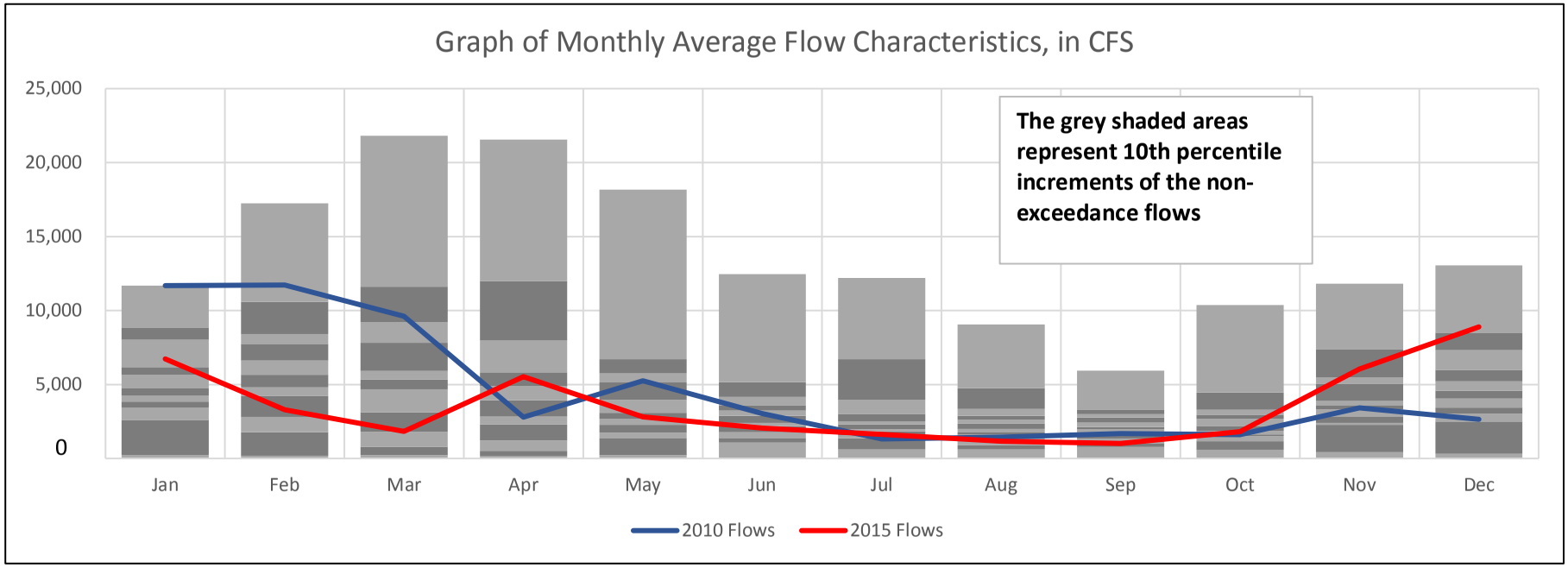
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	5,419	5,747	6,473	1,710	3,275	1,892	1,020	584	415	873	1,126	1,026
2015 Flows	3,771	2,560	2,320	3,845	1,735	1,001	793	554	343	842	2,940	5,089

Gage#: 03150109 Name: Middle Tallapoosa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,589 square miles



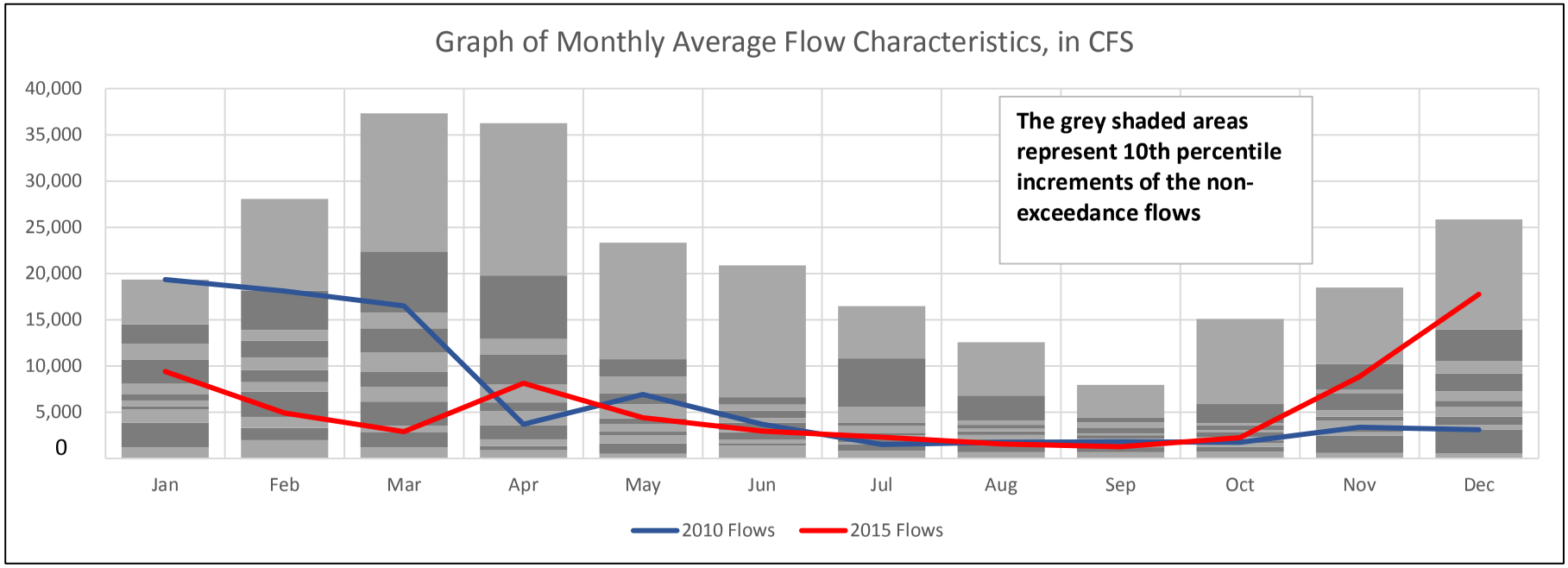
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	11,688	11,723	9,613	2,785	5,250	3,039	1,320	1,445	1,685	1,616	3,421	2,641
2015 Flows	6,739	3,284	1,830	5,533	2,820	2,052	1,624	1,168	1,016	1,822	6,041	8,895

Gage#: 03150110 Name: Lower Tallapoosa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,702 square miles



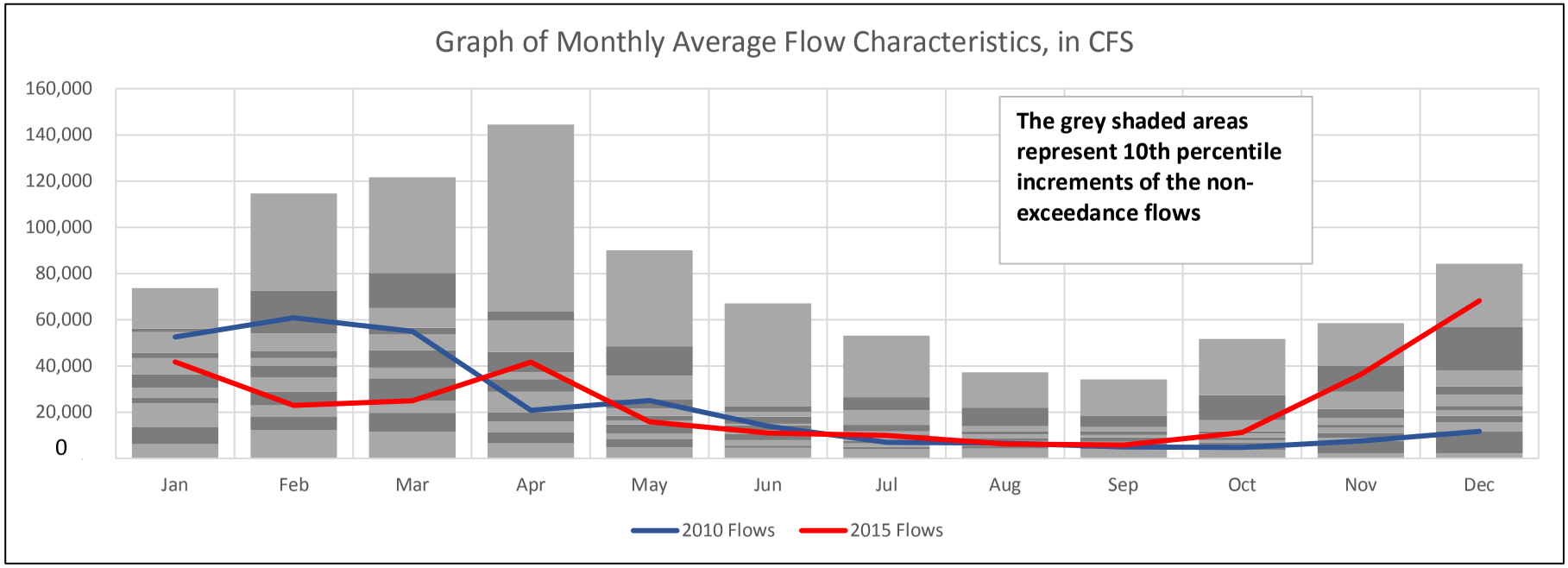
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	19,350	18,110	16,500	3,696	6,922	3,698	1,513	1,743	1,816	1,745	3,375	3,111
2015 Flows	9,408	4,907	2,892	8,129	4,405	2,956	2,319	1,566	1,273	2,244	8,853	17,760

Gage#: 03150201 Name: Upper Alabama

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 2,389 square miles



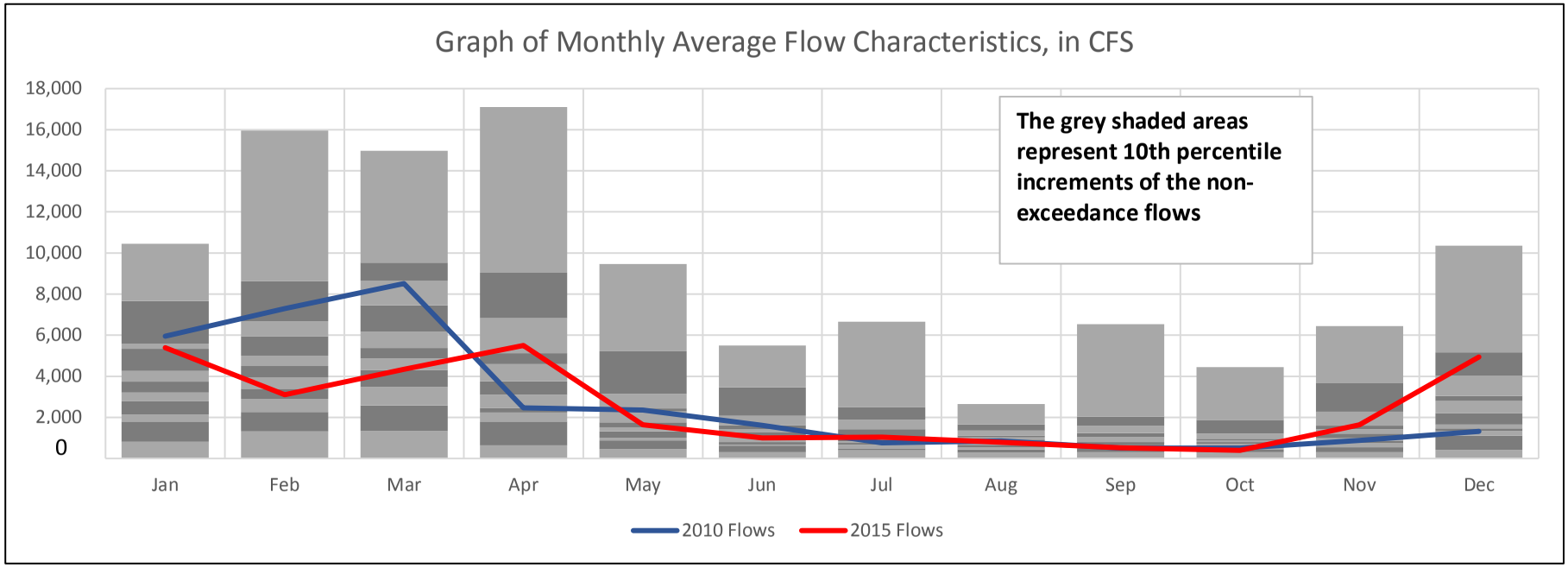
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	52,488	60,862	54,972	20,780	25,086	13,944	7,026	6,658	4,985	4,774	7,555	11,779
2015 Flows	41,767	22,979	24,927	41,687	15,812	11,004	9,950	6,261	5,819	11,209	36,321	68,223

Gage#: 03150202 Name: Cahaba River

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,822 square miles



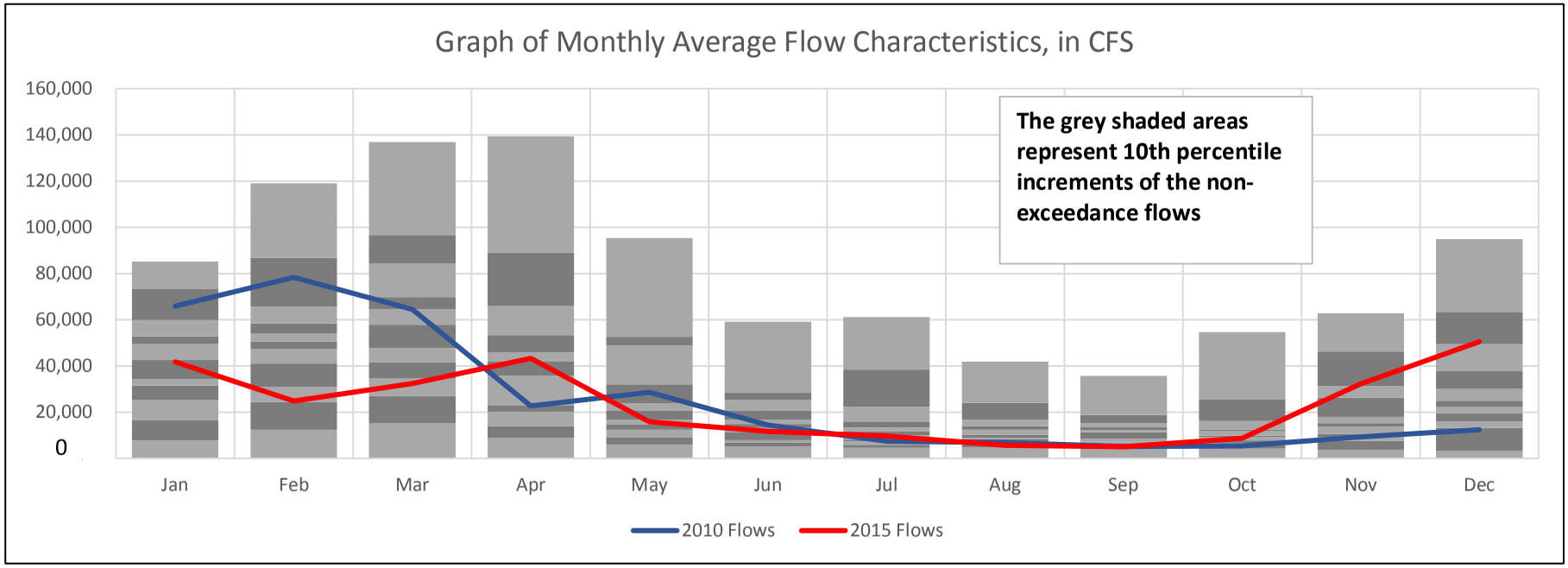
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	5,952	7,300	8,513	2,462	2,358	1,606	762	853	513	506	886	1,322
2015 Flows	5,393	3,104	4,341	5,500	1,638	1,006	1,036	793	525	395	1,634	4,938

Gage#: 03150203 Name: Middle Alabama

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 2,228 square miles



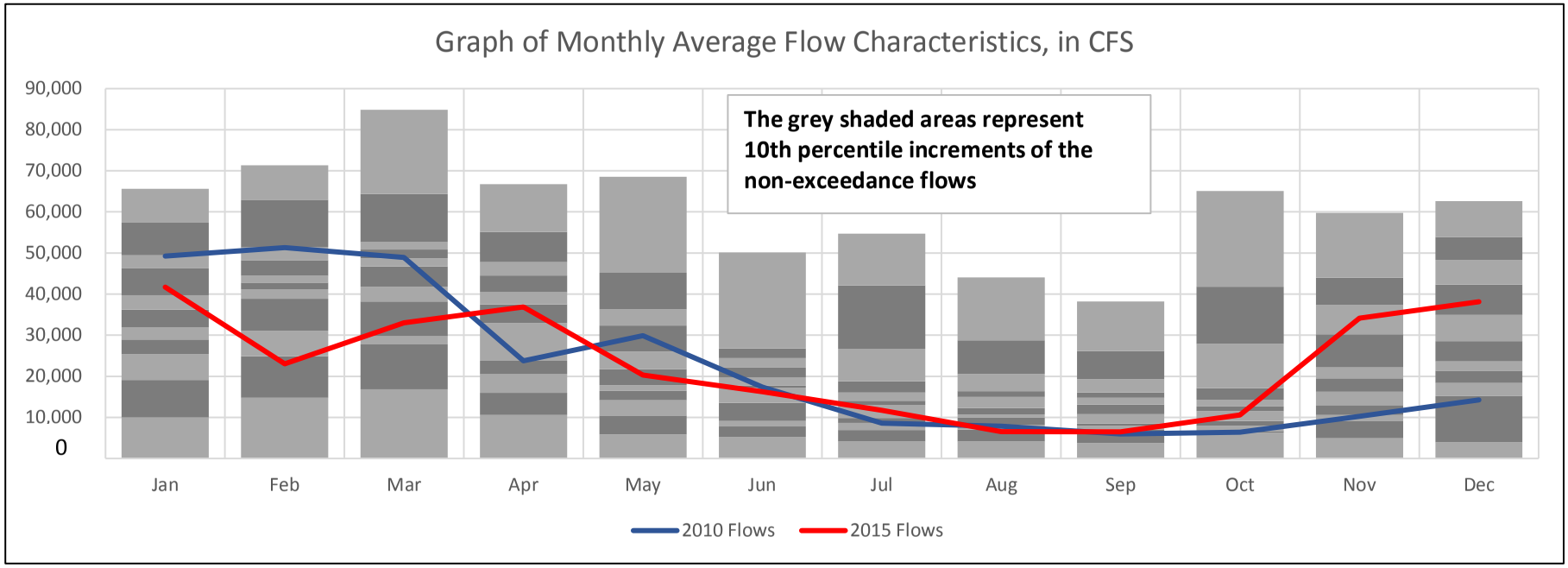
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	65,890	78,355	64,534	22,694	28,654	14,409	7,482	6,935	5,181	5,451	9,329	12,404
2015 Flows	41,759	24,916	32,467	43,332	15,878	11,707	9,764	5,720	5,087	8,720	32,335	50,525

Gage#: 03150204 Name: Lower Alabama

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,450 square miles



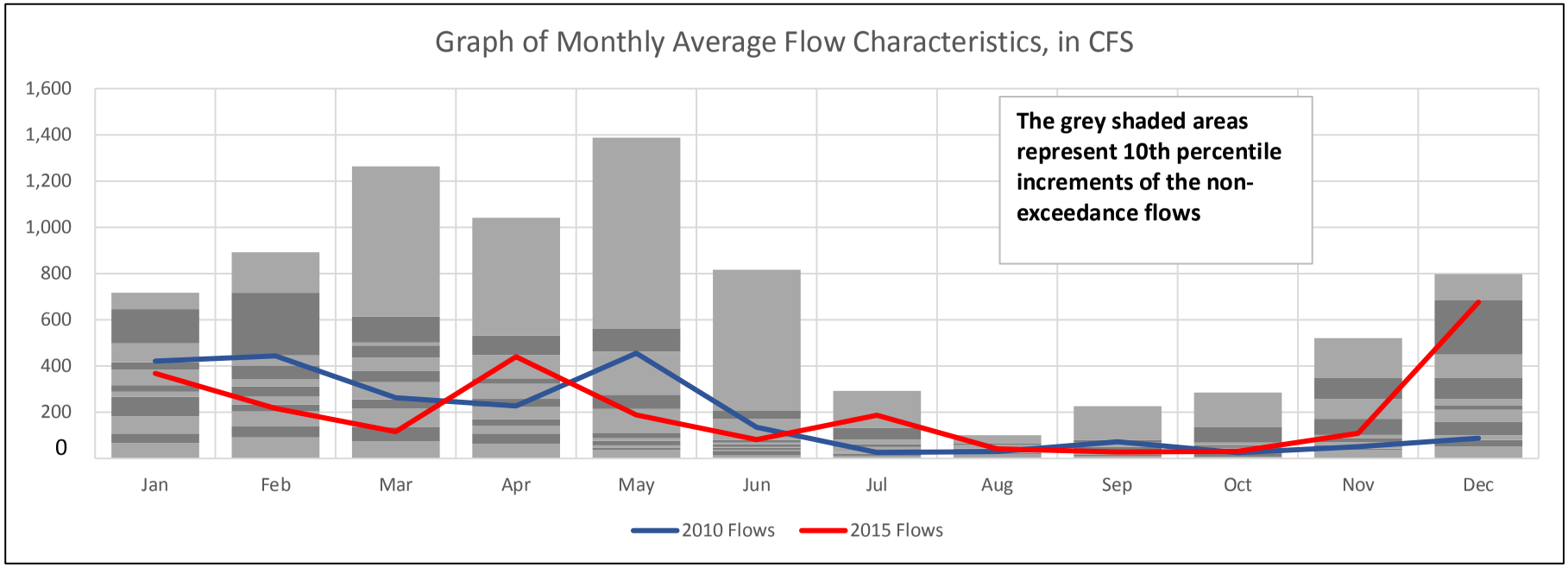
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	49,257	51,310	48,918	23,798	29,917	17,376	8,621	7,841	5,968	6,386	10,284	14,279
2015 Flows	41,703	23,052	32,996	36,883	20,307	16,257	11,746	6,547	6,486	10,574	34,117	38,123

Gage#: 03160101 Name: Upper Tombigbee

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 125 square miles



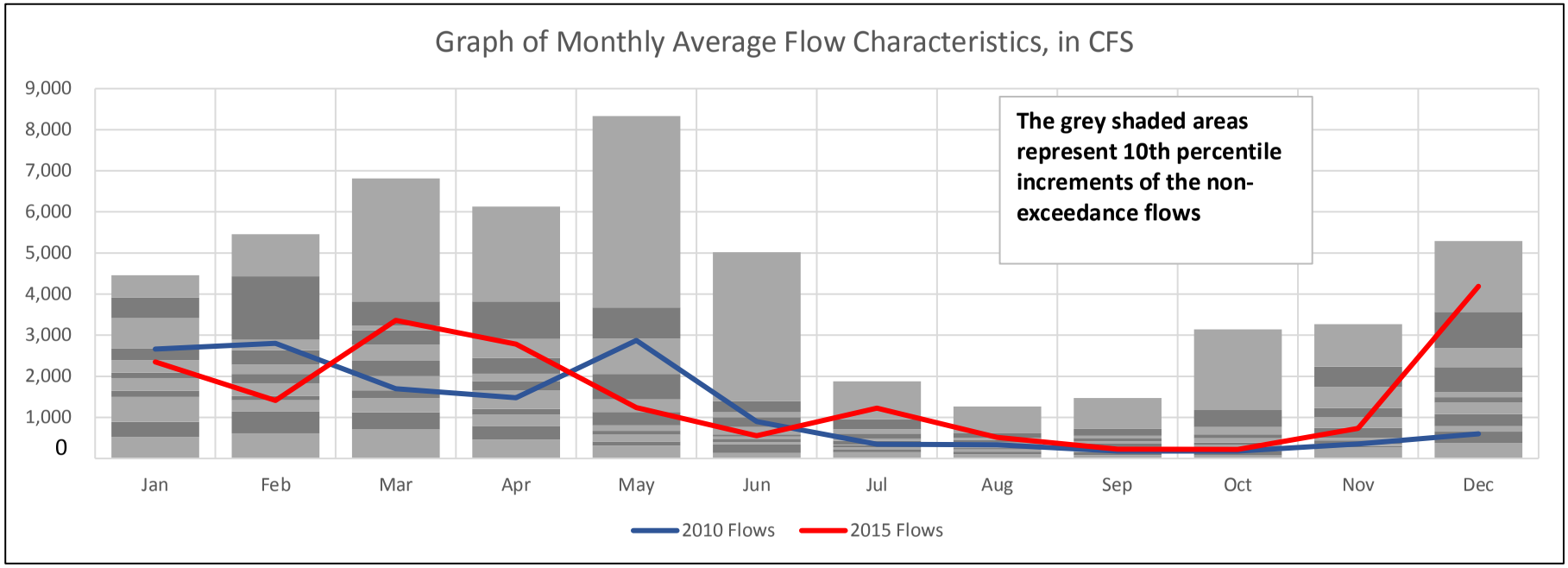
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	351	350	405	311	246	103	61	37	44	64	144	292
100%	717	892	1,264	1,042	1,388	817	292	101	227	286	521	798
98%	711	840	1,096	1,015	914	360	237	88	135	233	432	776
95%	701	776	837	631	658	218	156	83	85	177	380	762
90%	646	717	614	532	560	208	132	64	80	135	349	684
75%	436	431	497	391	317	105	68	46	61	59	221	396
50%	317	311	379	258	111	60	44	32	30	48	86	229
25%	246	220	233	161	71	43	26	20	23	33	52	117
10%	108	139	138	107	48	34	22	14	16	22	43	80
5%	78	115	123	81	44	29	19	13	13	18	41	67
2%	70	103	98	74	39	22	16	11	11	10	39	57
0%	68	91	73	63	38	14	13	9.1	10	8.7	38	51
2010 Flows	421	444	263	228	456	136	26	29	72	25	51	88
2015 Flows	369	216	116	440	188	82	187	41	28	31	109	676

Gage#: 03160103 Name: Buttahatchee River

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 666 square miles



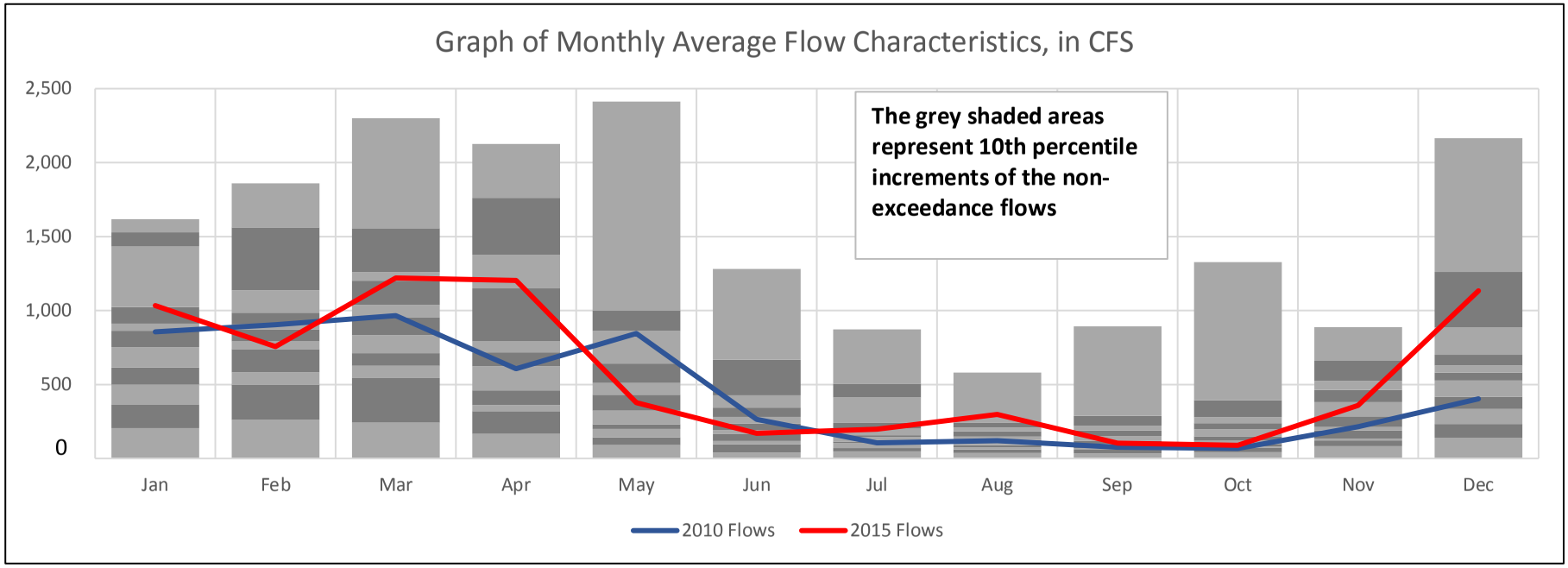
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,663	2,802	1,698	1,481	2,873	902	344	331	184	181	355	598
2015 Flows	2,347	1,411	3,362	2,781	1,236	556	1,226	511	230	221	734	4,189

Gage#: 03160105 Name: Luxapallila Creek

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 662 square miles



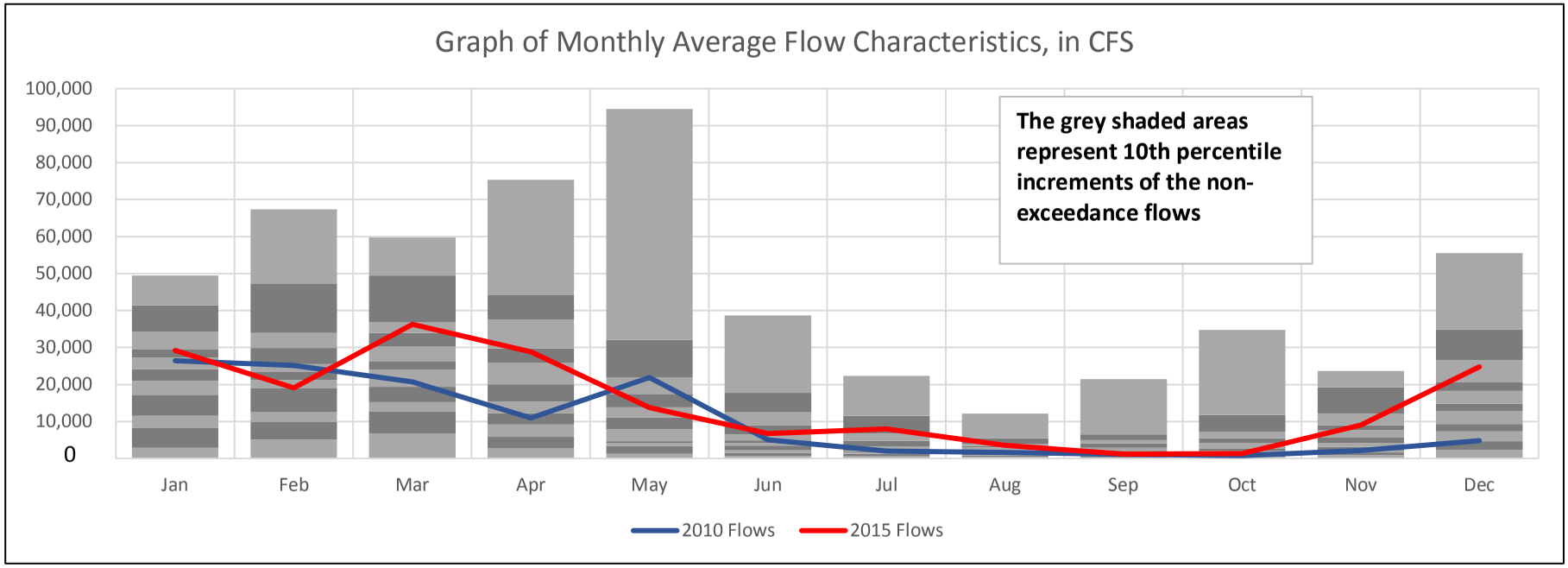
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	856	905	965	606	844	265	105	121	77	68	215	404
2015 Flows	1,033	756	1,220	1,204	377	171	198	297	105	89	359	1,132

Gage#: 03160106 Name: Middle Tombigbee

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,272 square miles



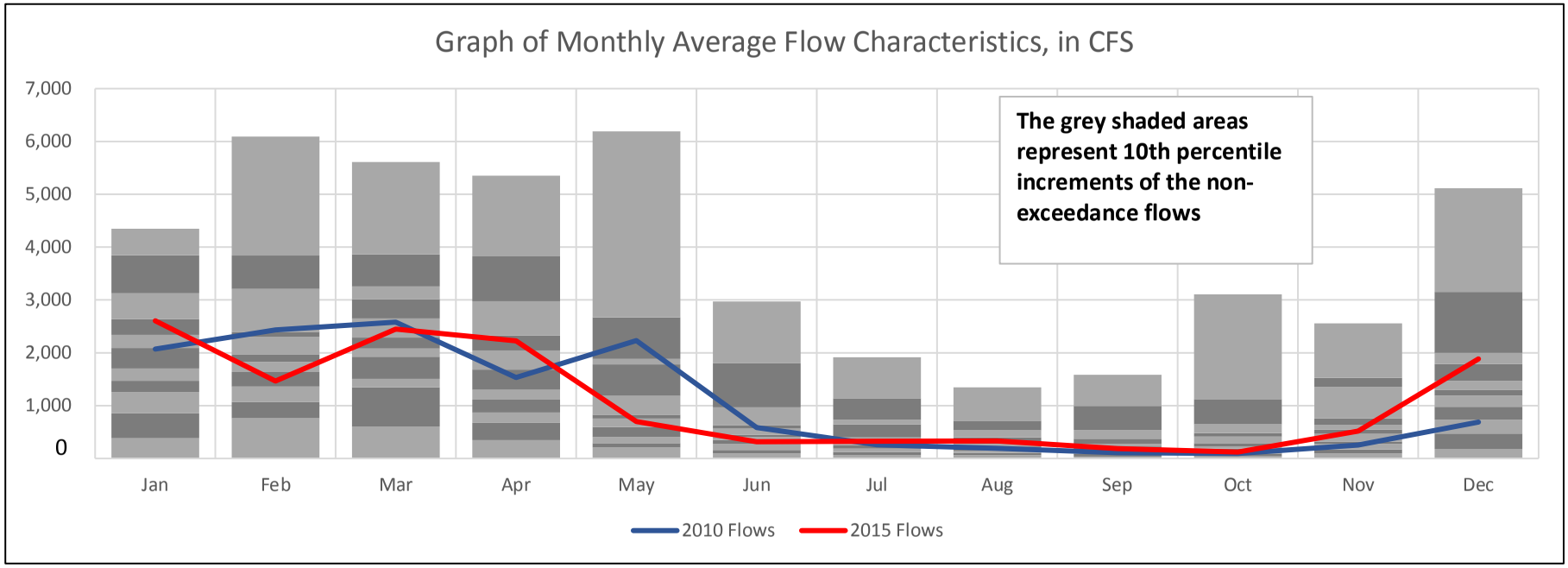
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	26,439	25,136	20,702	10,952	21,867	5,013	1,989	1,631	1,088	787	2,180	4,837
2015 Flows	29,188	19,105	36,265	28,840	13,798	6,716	7,988	3,544	1,184	1,346	8,998	24,758

Gage#: 03160107 Name: Sipsey River

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 787 square miles



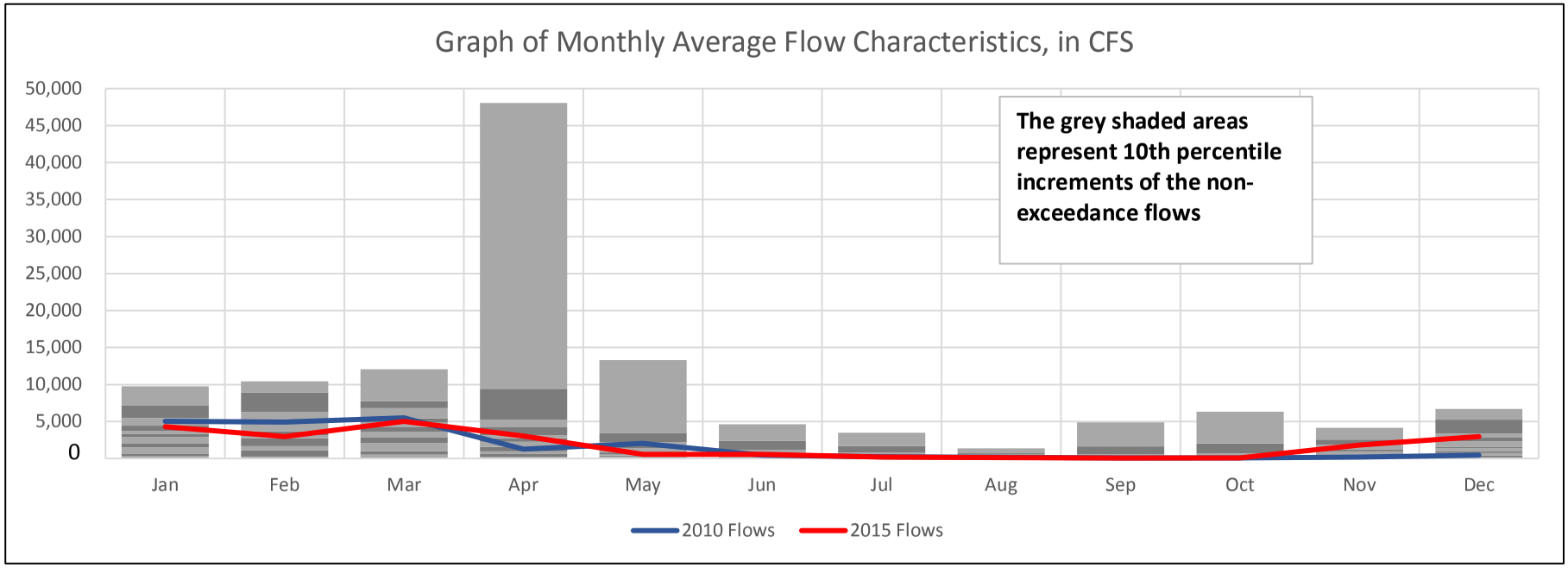
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,071	2,435	2,580	1,534	2,234	586	257	191	107	95	253	690
2015 Flows	2,606	1,466	2,447	2,226	698	316	325	334	188	122	519	1,887

Gage#: 03160108 Name: Noxubee River

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 139 square miles



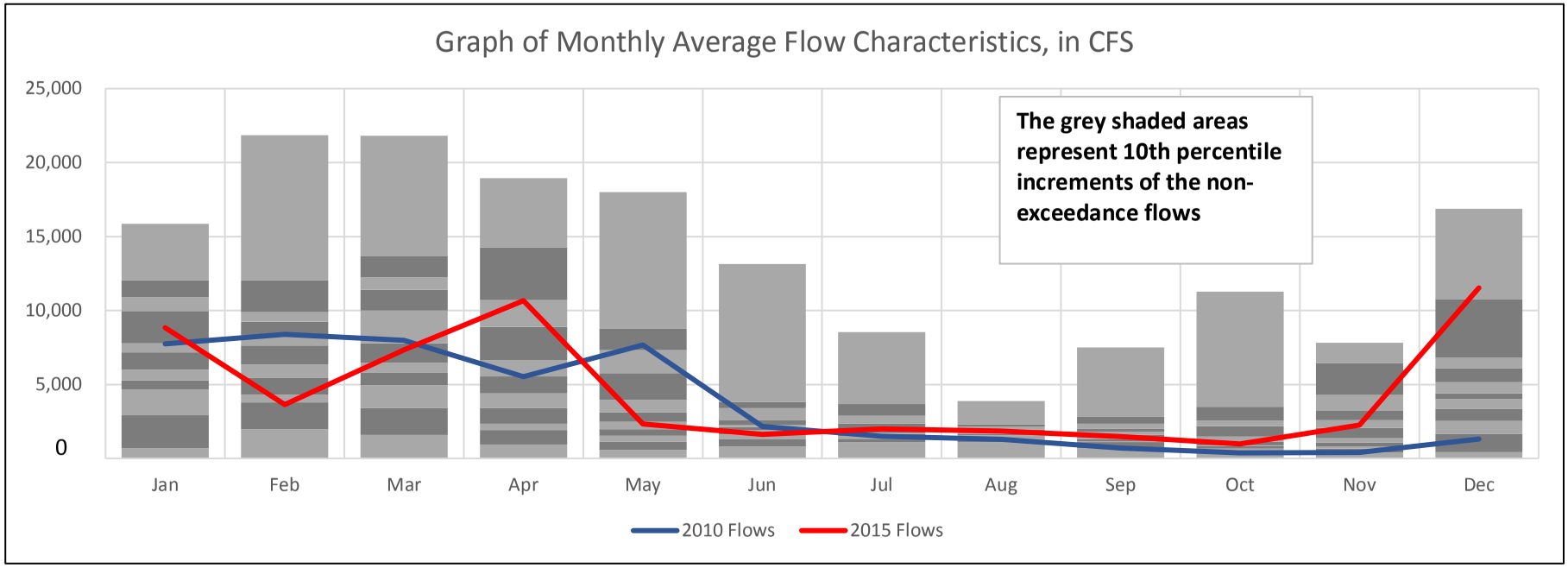
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	5,043	4,921	5,497	1,245	2,056	451	236	153	96	75	203	439
2015 Flows	4,275	2,954	5,020	3,047	570	572	183	130	59	68	1,824	2,967

Gage#: 03160109 Name: Mulberry Fork

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,371 square miles



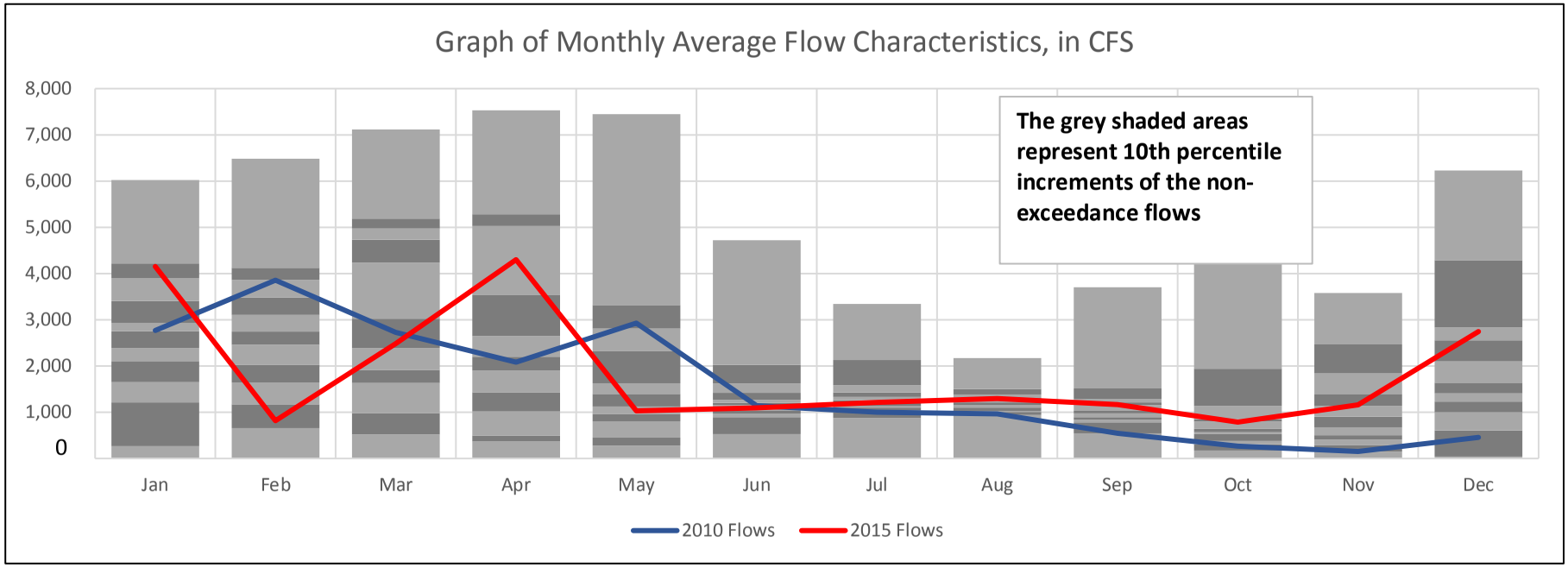
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	7,750	8,390	7,984	5,528	7,674	2,165	1,497	1,297	697	380	411	1,309
2015 Flows	8,844	3,646	7,341	10,673	2,333	1,637	1,990	1,847	1,491	985	2,253	11,531

Gage#: 03160110 Name: Sipsey Fork

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 996 square miles



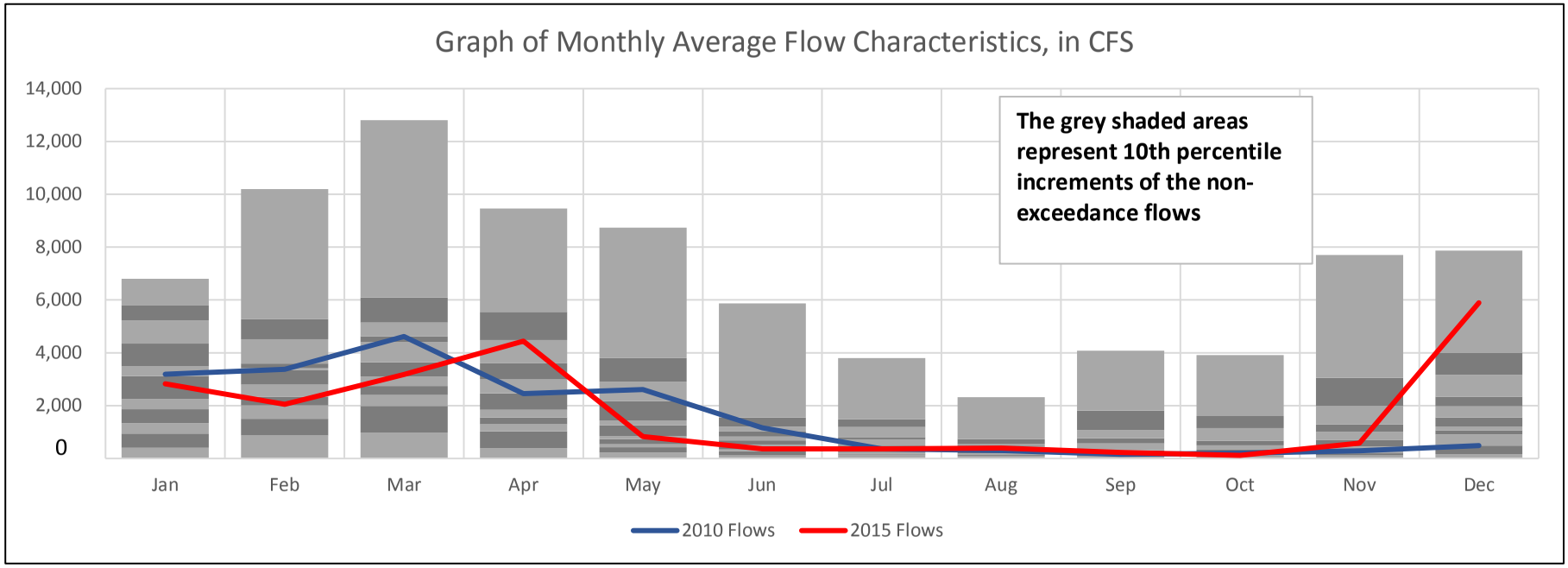
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,769	3,856	2,729	2,084	2,929	1,145	1,002	966	545	267	152	455
2015 Flows	4,152	819	2,484	4,300	1,028	1,094	1,214	1,294	1,164	787	1,160	2,745

Gage#: 03160111 Name: Locust Fork

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,209 square miles



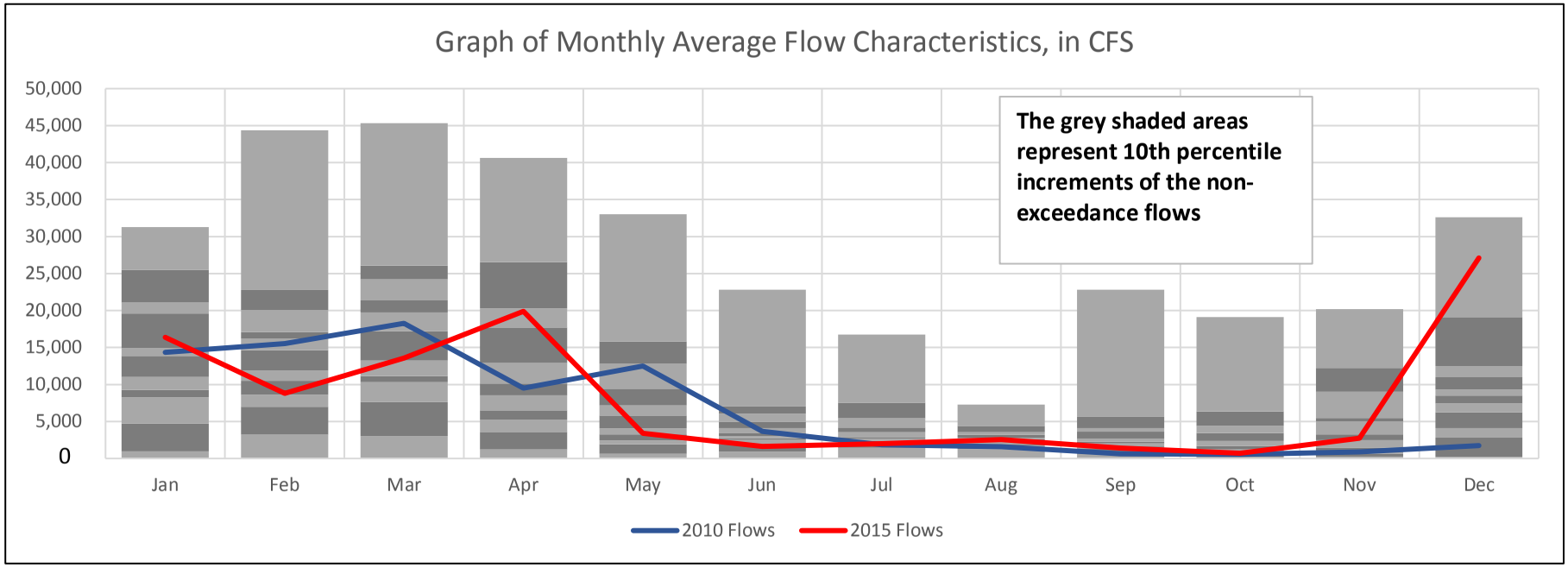
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	3,194	3,374	4,618	2,451	2,615	1,164	360	301	159	198	290	485
2015 Flows	2,829	2,047	3,177	4,440	834	363	365	399	231	119	585	5,894

Gage#: 03160112 Name: Upper Black Warrior

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,245 square miles



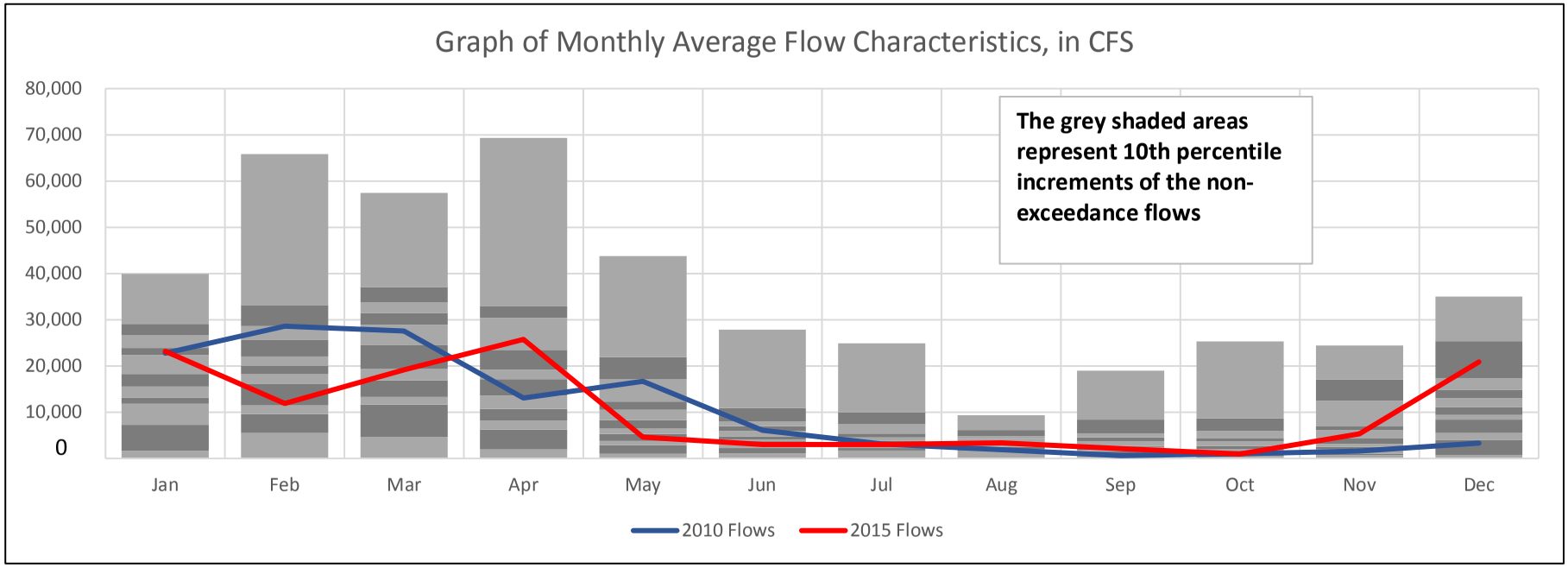
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	14,350	15,540	18,270	9,488	12,510	3,663	1,870	1,589	647	557	883	1,727
2015 Flows	16,400	8,805	13,590	19,880	3,417	1,629	2,018	2,559	1,421	709	2,740	27,110

Gage#: 03160113 Name: Lower Black Warrior

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,452 square miles



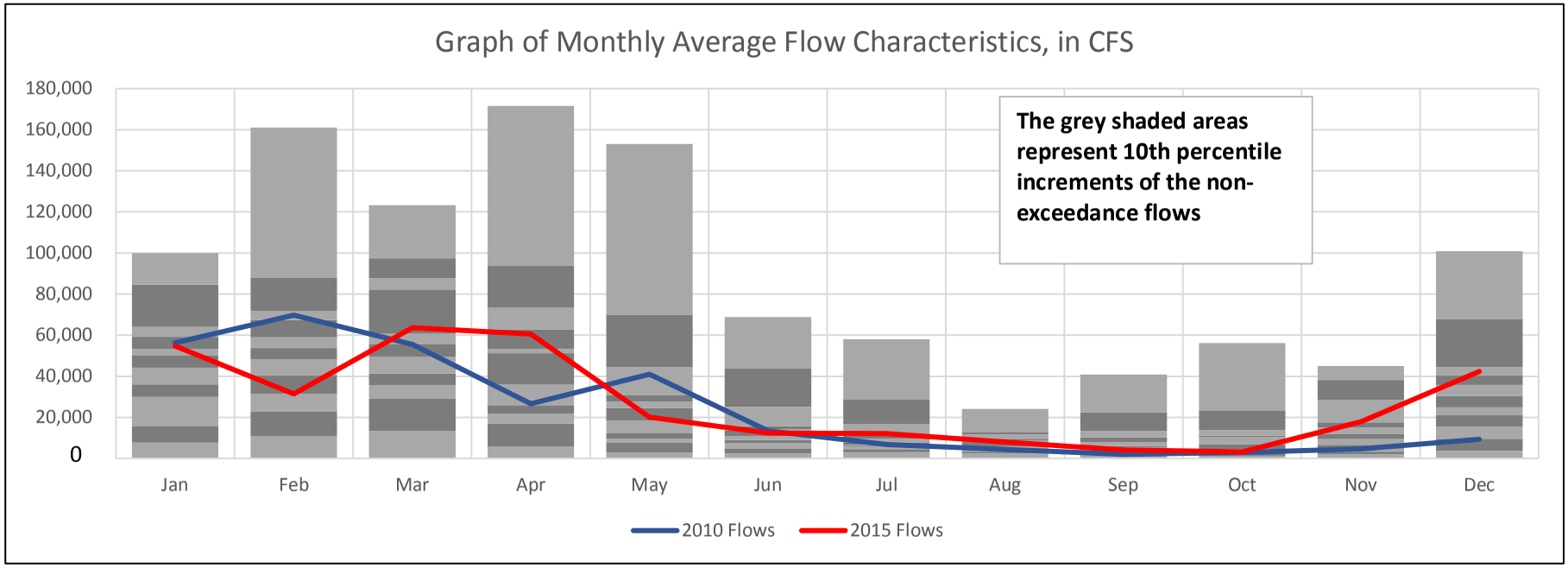
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	22,761	28,614	27,558	13,078	16,663	6,117	3,170	1,924	618	994	1,617	3,297
2015 Flows	23,172	11,915	19,185	25,760	4,622	3,032	3,042	3,379	2,138	969	5,342	20,882

Gage#: 03160201 Name: Middle Tombigbee-Chickasaw

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 2,043 square miles



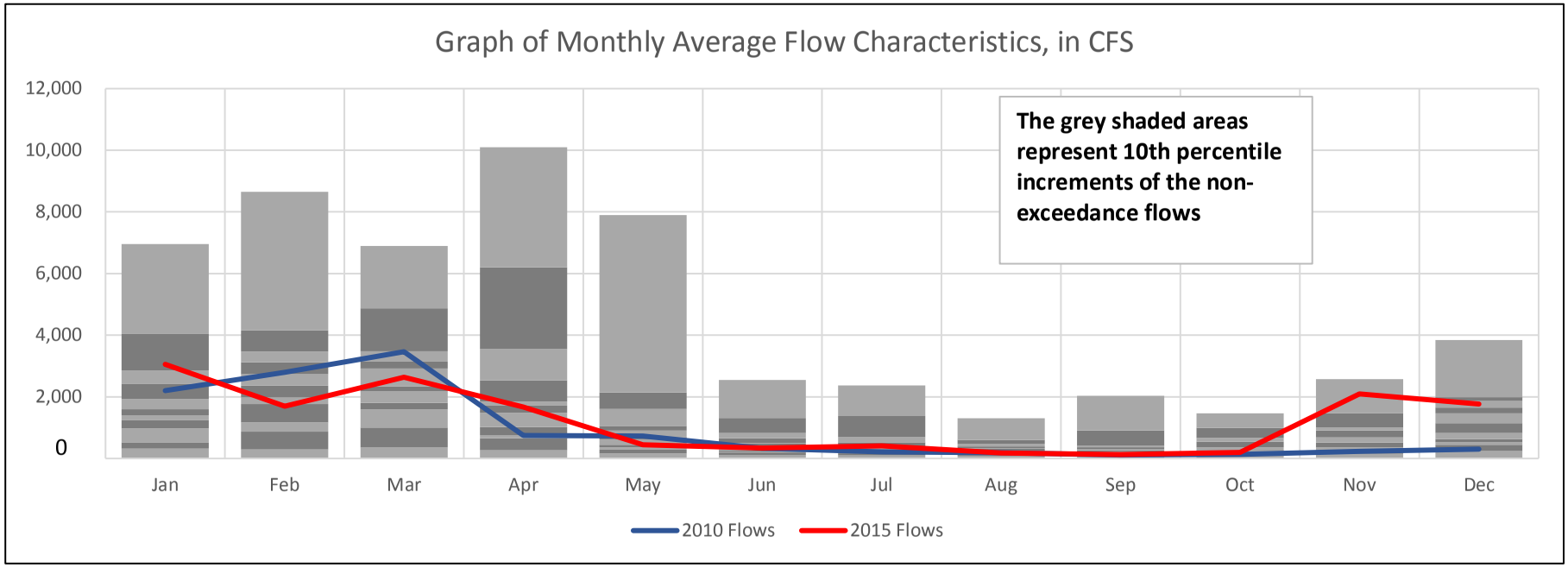
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	56,280	69,760	55,550	26,640	40,960	13,440	6,764	4,428	2,037	2,909	4,663	9,296
2015 Flows	54,740	31,440	63,650	60,610	20,160	12,450	12,080	8,054	4,197	3,222	17,820	42,310

Gage#: 03160202 Name: Sucarnoochee River

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 382 square miles



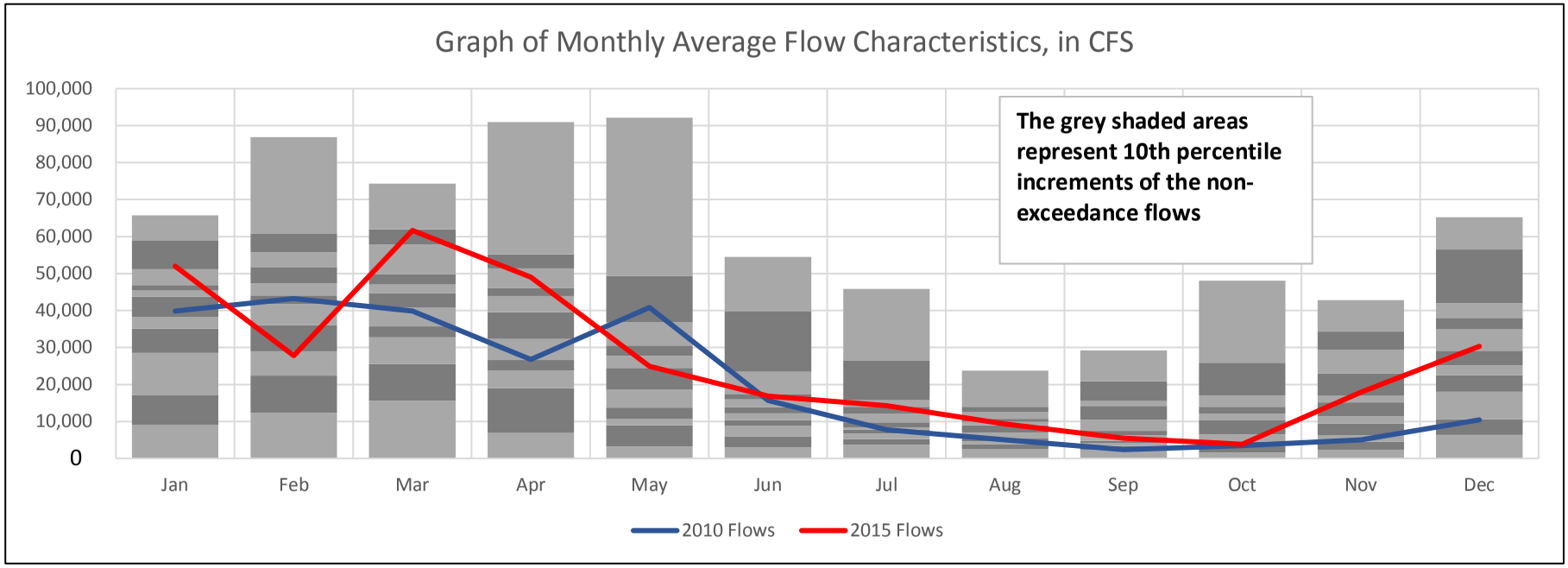
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,203	2,797	3,464	747	725	330	213	185	112	131	228	299
2015 Flows	3,055	1,696	2,635	1,666	446	342	405	175	128	198	2,093	1,764

Gage#: 03160203 Name: Lower Tombigbee River

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,615 square miles



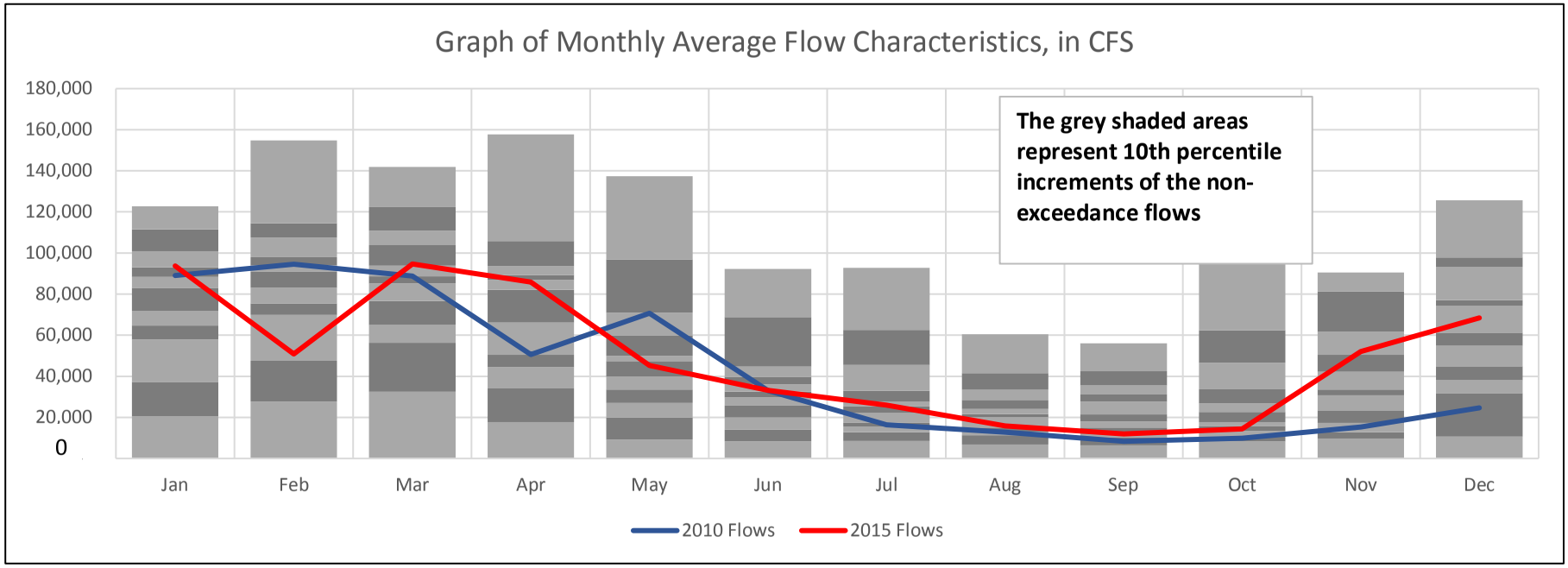
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	39,853	43,230	39,892	26,772	40,833	15,694	7,752	5,002	2,393	3,463	5,056	10,411
2015 Flows	51,965	27,833	61,662	49,024	24,901	16,853	14,267	9,332	5,467	3,855	17,923	30,297

Gage#: 03160204 Name: Moble-Tensaw

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 489 square miles



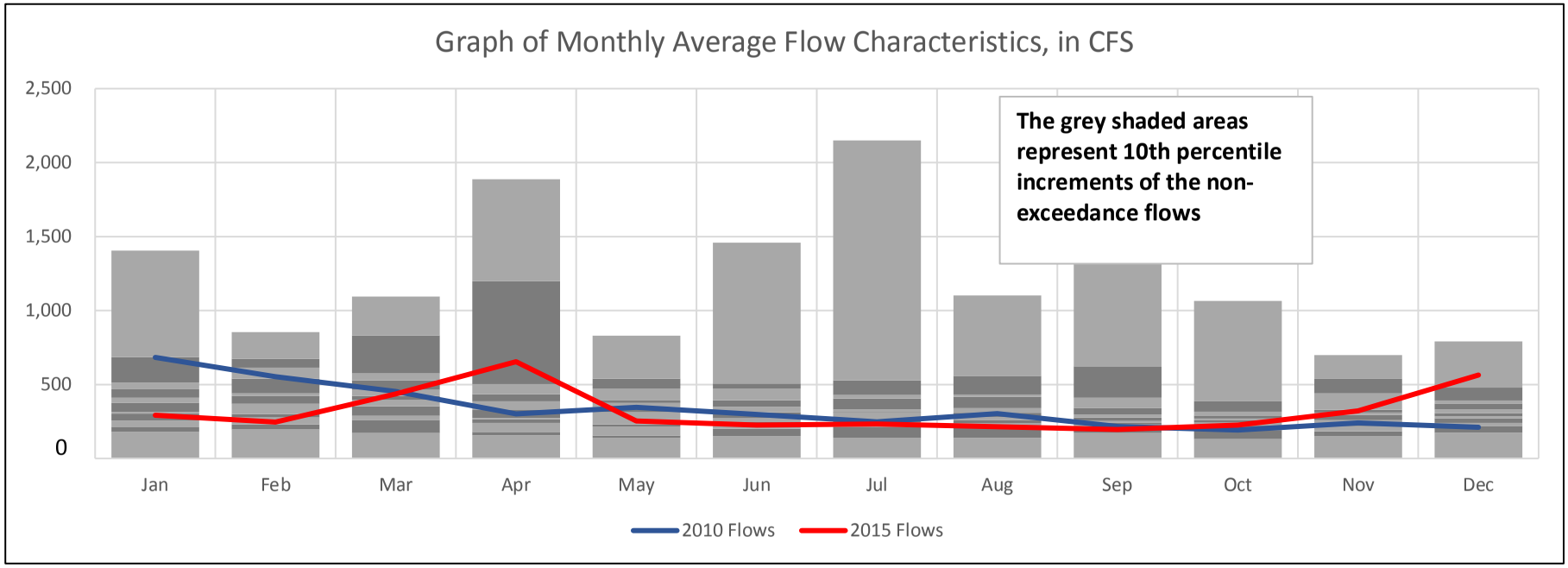
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	89,110	94,540	88,810	50,570	70,750	33,070	16,373	12,843	8,361	9,849	15,340	24,690
2015 Flows	93,668	50,885	94,658	85,907	45,208	33,110	26,013	15,879	11,954	14,429	52,040	68,420

Gage#: 03160205 Name: Mobile Bay

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 909 square miles



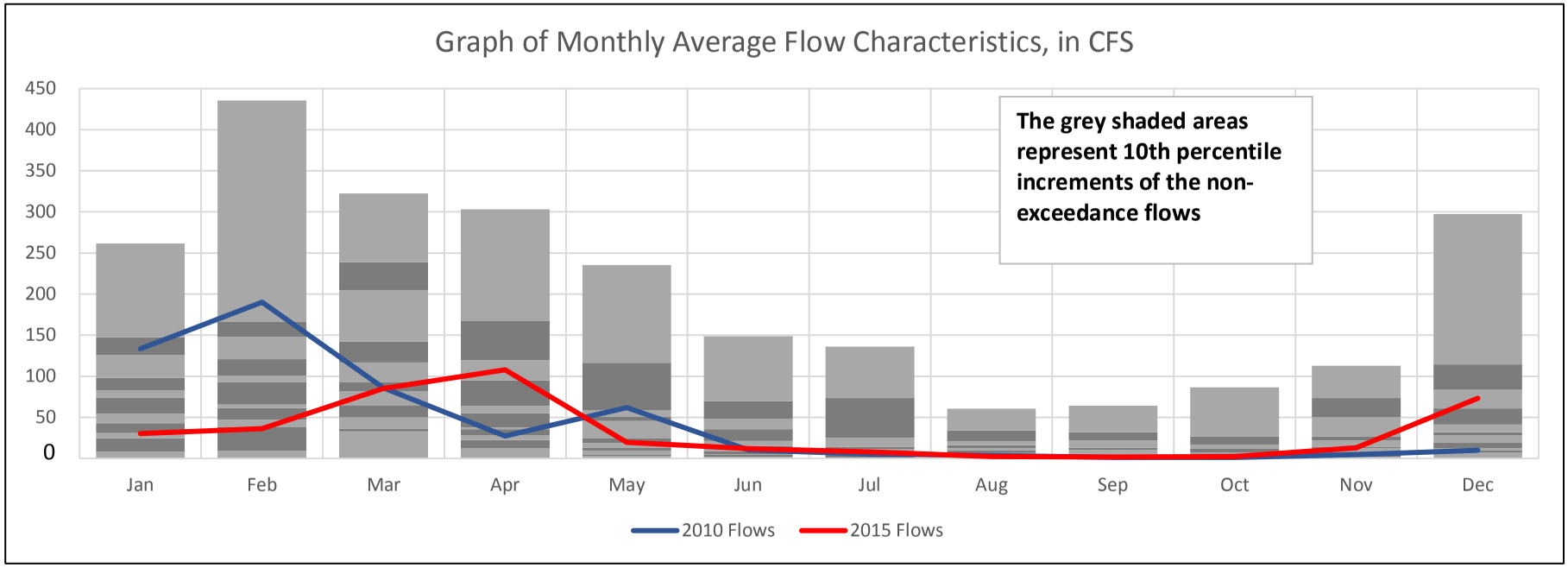
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	431	440	476	473	356	359	401	360	371	288	323	333
100%	1,405	854	1,094	1,887	829	1,459	2,149	1,101	1,708	1,065	699	792
98%	1,082	805	977	1,789	797	828	1,241	803	1,030	668	645	633
95%	891	766	920	1,302	741	550	862	654	811	490	603	556
90%	686	672	831	1,199	541	506	528	558	624	386	539	478
75%	487	568	544	474	395	442	416	427	385	299	350	386
50%	377	422	424	327	346	313	314	309	277	261	294	307
25%	287	284	309	246	225	234	256	251	233	211	222	251
10%	215	230	261	179	155	201	211	218	215	192	182	220
5%	213	217	206	169	146	168	204	160	198	169	172	190
2%	194	197	189	159	141	153	182	150	187	156	164	184
0%	179	196	171	158	141	151	141	139	172	132	150	175
2010 Flows	683	553	453	302	346	298	249	303	216	192	241	211
2015 Flows	292	246	437	654	253	225	234	214	196	226	322	564

Gage#: 03170002 Name: Upper Chickasawhay

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 65 square miles



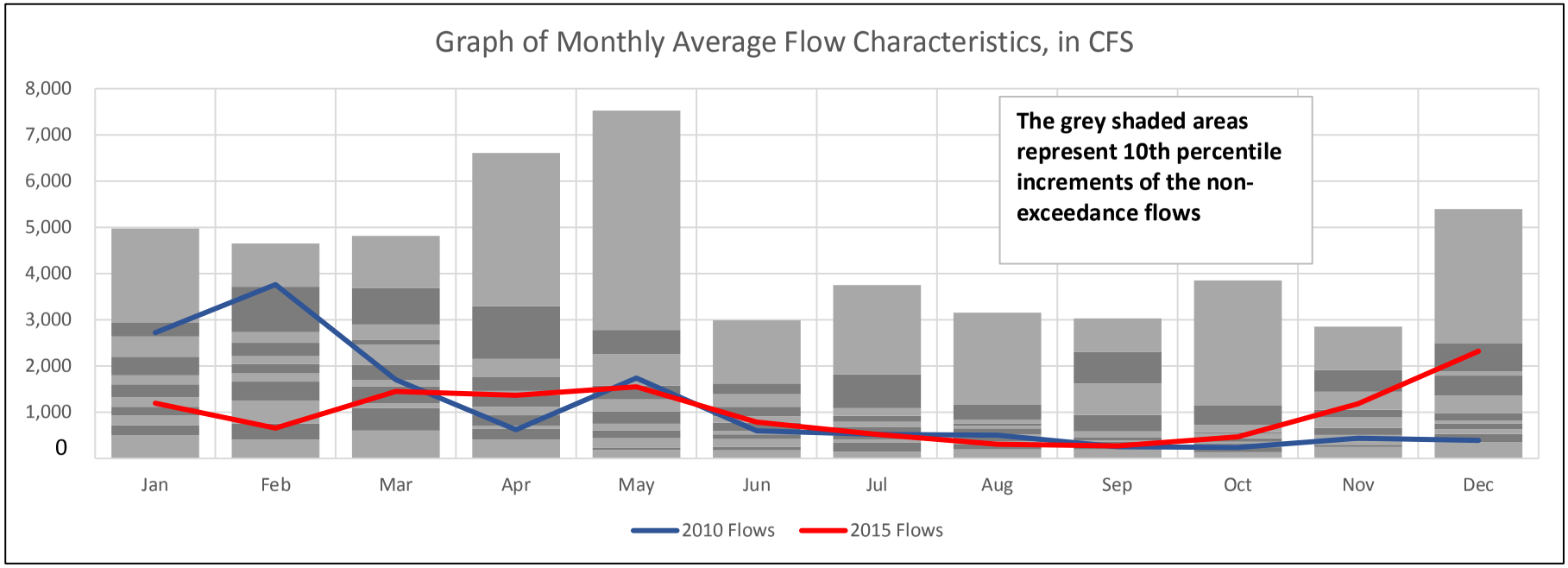
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	83	105	121	80	44	30	24	14	14	12	28	53
100%	262	435	322	303	235	149	136	61	64	87	113	297
98%	247	295	312	278	176	132	134	53	61	46	112	174
95%	204	248	265	250	145	103	120	44	57	33	99	138
90%	148	167	239	168	117	70	74	34	32	27	73	114
75%	118	141	155	105	54	40	19	17	17	15	31	75
50%	74	93	93	55	24	15	11	10	6.1	6.8	14	32
25%	36	56	57	32	11	6.7	7.0	4.2	3.7	3.7	7.2	17
10%	25	39	36	23	5.1	4.3	4.7	2.7	2.3	2.1	4.3	10
5%	14	24	35	14	4.6	3.2	2.9	1.8	2.1	1.3	3.3	9.2
2%	13	20	34	13	3.5	2.1	1.8	1.6	1.3	1.2	2.9	8.5
0%	8.5	9.1	33	13	3.0	1.8	1.1	1.6	1.1	0.8	2.1	7.1
2010 Flows	133	190	86	27	62	10	5.3	3.8	1.3	1.3	4.7	10
2015 Flows	30	36	85	108	20	12	8.1	2.3	1.8	2.3	13	73

Gage#: 03170008 Name: Escatawpa

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 703 square miles



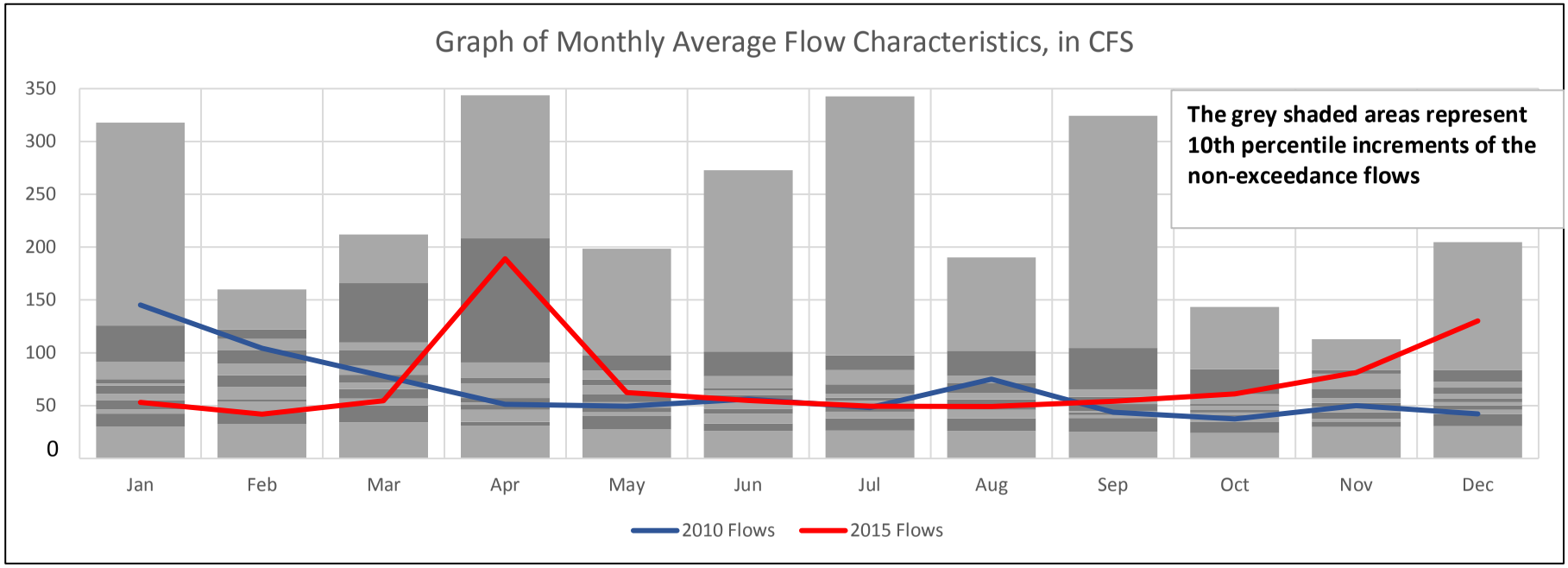
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	2,722	3,761	1,707	621	1,740	599	520	502	258	238	438	392
2015 Flows	1,196	656	1,447	1,367	1,548	788	520	306	272	471	1,186	2,320

Gage#: 03170009 Name: Mississippi Coastal

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 101 square miles



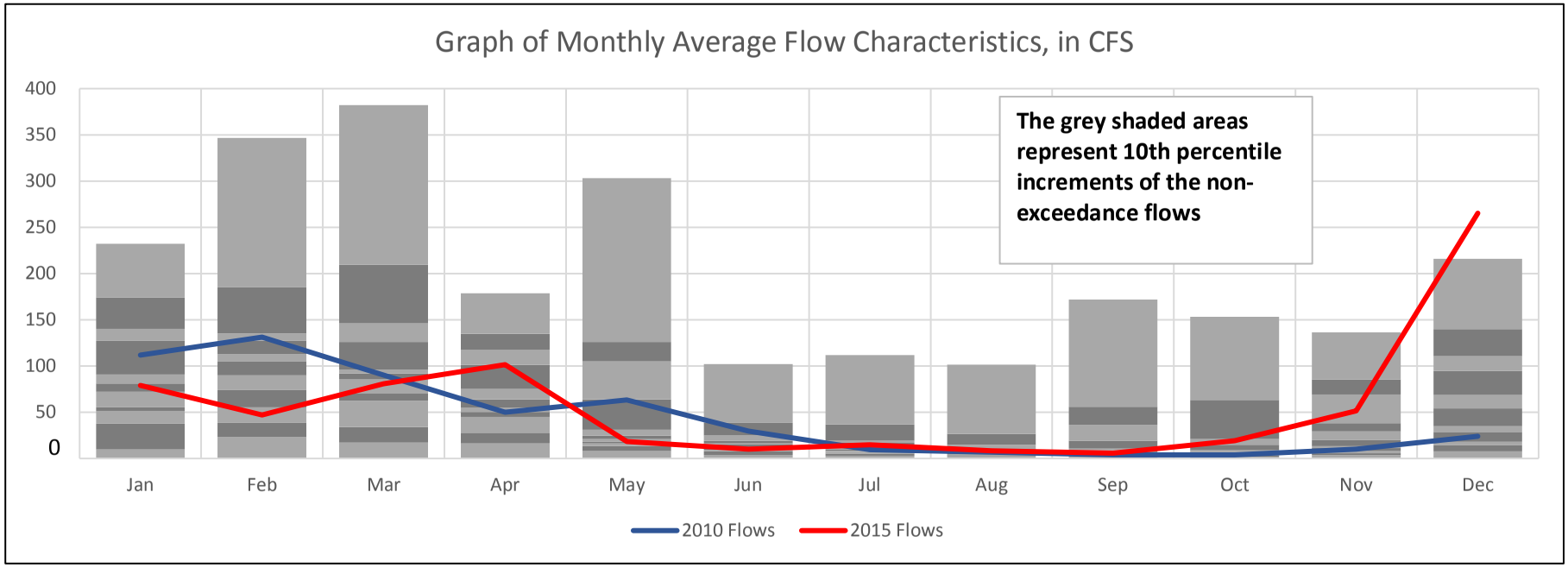
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	78	82	91	88	68	70	74	64	65	53	58	63
100%	318	160	212	344	198	273	343	190	324	143	113	205
98%	215	141	206	333	165	226	232	131	190	126	111	122
95%	147	133	194	302	136	171	162	106	151	100	93	90
90%	126	122	166	208	98	101	98	102	105	84	84	84
75%	79	106	107	81	80	70	76	76	60	56	79	70
50%	69	79	79	57	60	60	57	56	52	46	53	57
25%	49	54	60	49	45	46	48	47	42	40	40	47
10%	42	44	50	35	41	33	38	38	38	35	35	42
5%	36	43	41	34	29	30	36	31	36	33	32	41
2%	34	37	36	33	28	29	32	27	32	29	31	35
0%	30	33	34	31	27	26	27	26	25	24	30	31
2010 Flows	145	104	78	51	49	56	48	75	44	37	50	42
2015 Flows	53	42	55	189	62	55	49	49	54	61	81	130

Gage#: 06020001 Name: Middle Tennessee-Chickamauga

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 54 square miles



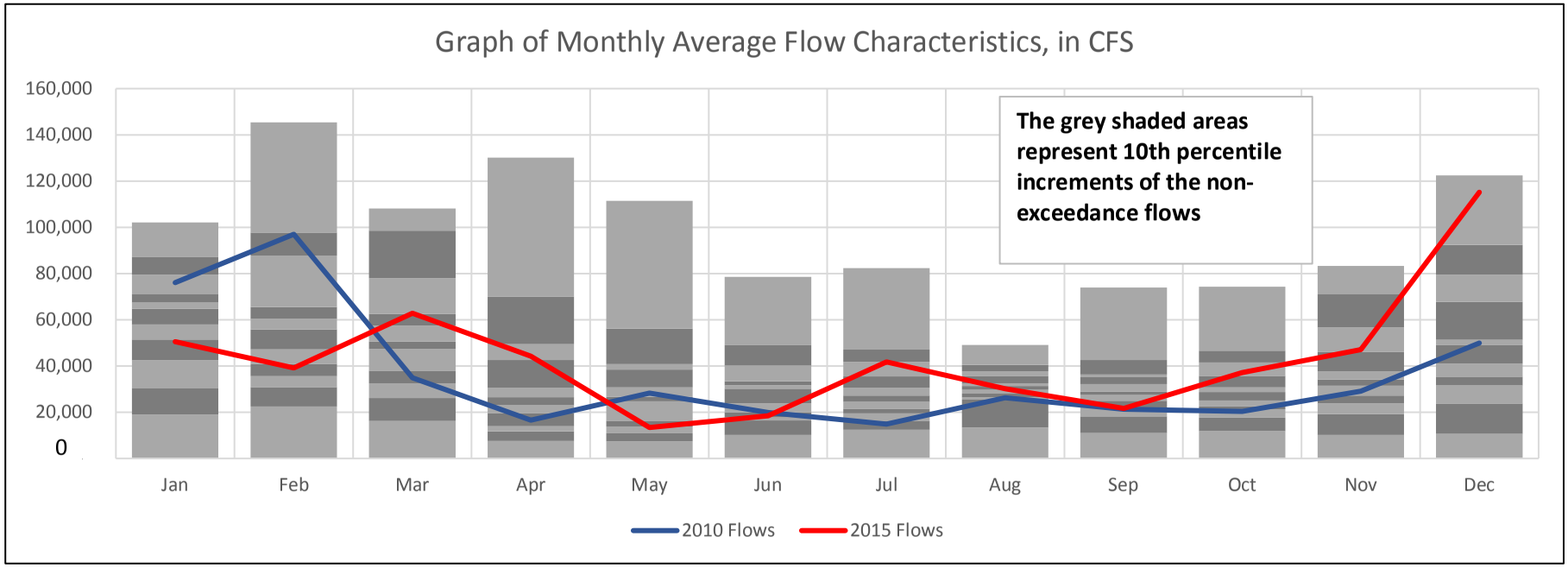
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	96	109	110	77	55	21	18	14	23	19	37	68
100%	232	346	382	179	303	102	112	101	172	153	136	216
98%	231	245	272	173	208	83	89	70	126	96	136	189
95%	217	192	221	150	154	54	58	40	77	69	123	168
90%	174	185	209	135	126	39	37	27	56	63	86	140
75%	130	130	134	109	71	23	18	13	23	17	62	101
50%	81	105	92	64	25	15	9.4	7.8	9.0	7.2	20	54
25%	53	66	68	47	17	11	6.8	5.6	5.5	5.0	10	24
10%	38	39	34	28	13	7.7	5.4	3.7	4.1	3.7	5.8	14
5%	22	27	28	19	12	6.3	4.2	3.0	3.5	3.3	4.4	12
2%	16	24	22	17	10	4.1	3.7	2.6	2.3	2.6	4.0	8.5
0%	10	23	17	16	8.0	3.8	3.1	2.5	2.3	1.9	3.5	7.9
2010 Flows	112	131	90	50	63	30	9.4	6.9	3.9	4.0	10	24
2015 Flows	79	47	81	102	18	10	15	8.4	5.8	19	51	265

Gage#: 06030001 Name: Guntersville Lake

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,647 square miles



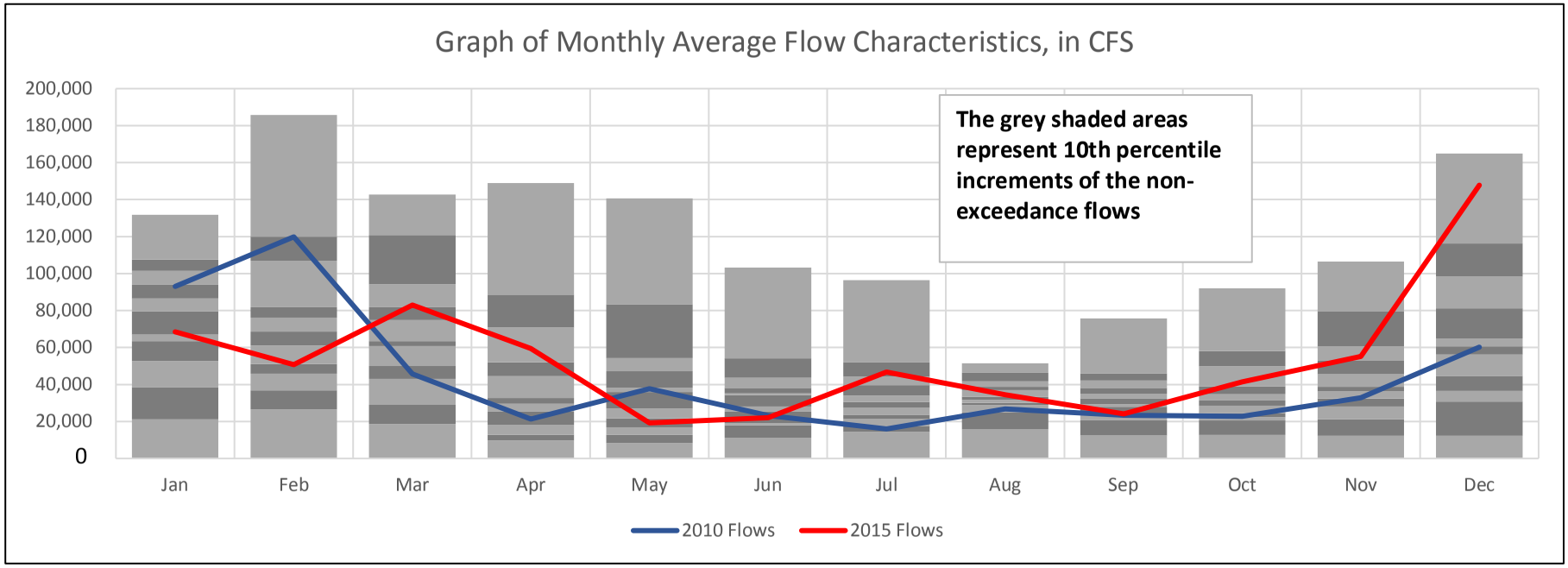
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	76,130	96,996	34,923	16,609	28,325	19,867	14,874	26,314	21,251	20,388	29,106	49,903
2015 Flows	50,569	39,131	62,818	44,244	13,401	18,454	41,726	30,167	21,609	37,149	47,040	115,172

Gage#: 06030002 Name: Wheeler Lake

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 2,664 square miles



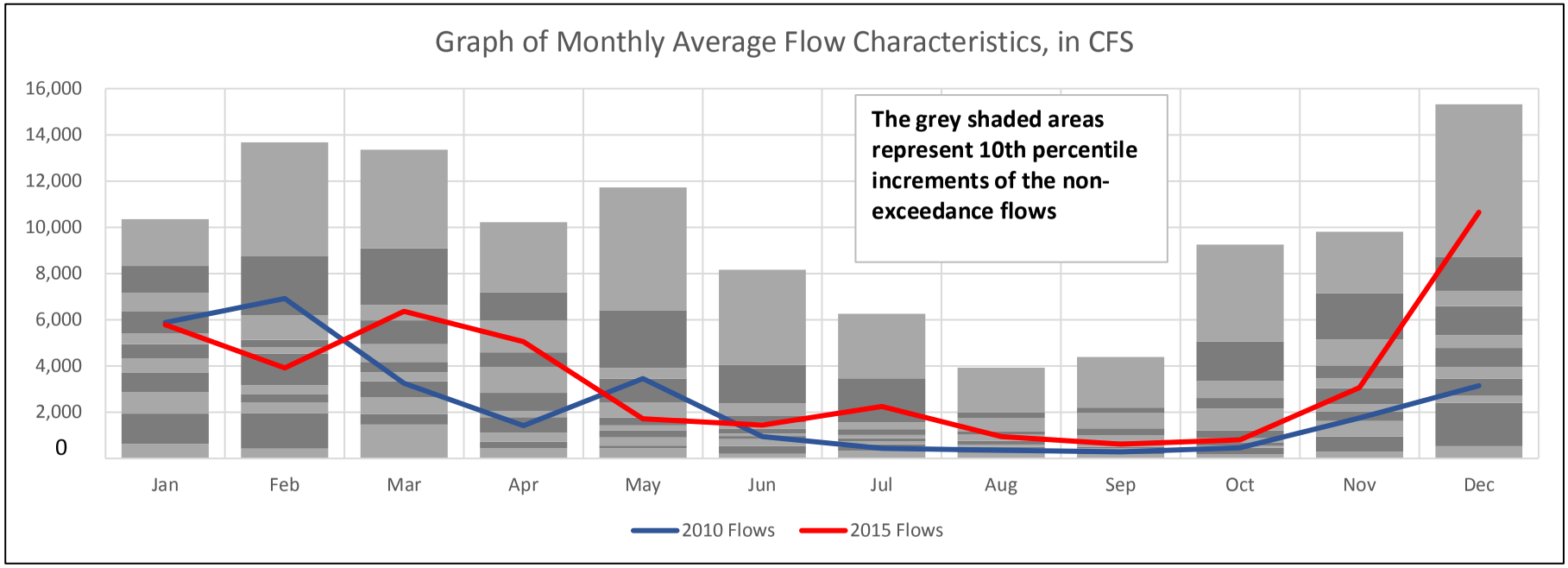
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	92,958	119,847	45,754	21,335	37,784	23,253	15,981	26,790	23,337	22,817	32,795	60,275
2015 Flows	68,423	50,803	82,979	59,529	19,237	22,016	46,817	34,418	24,174	41,388	55,108	147,782

Gage#: 06030004 Name: Lower Elk

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 249 square miles



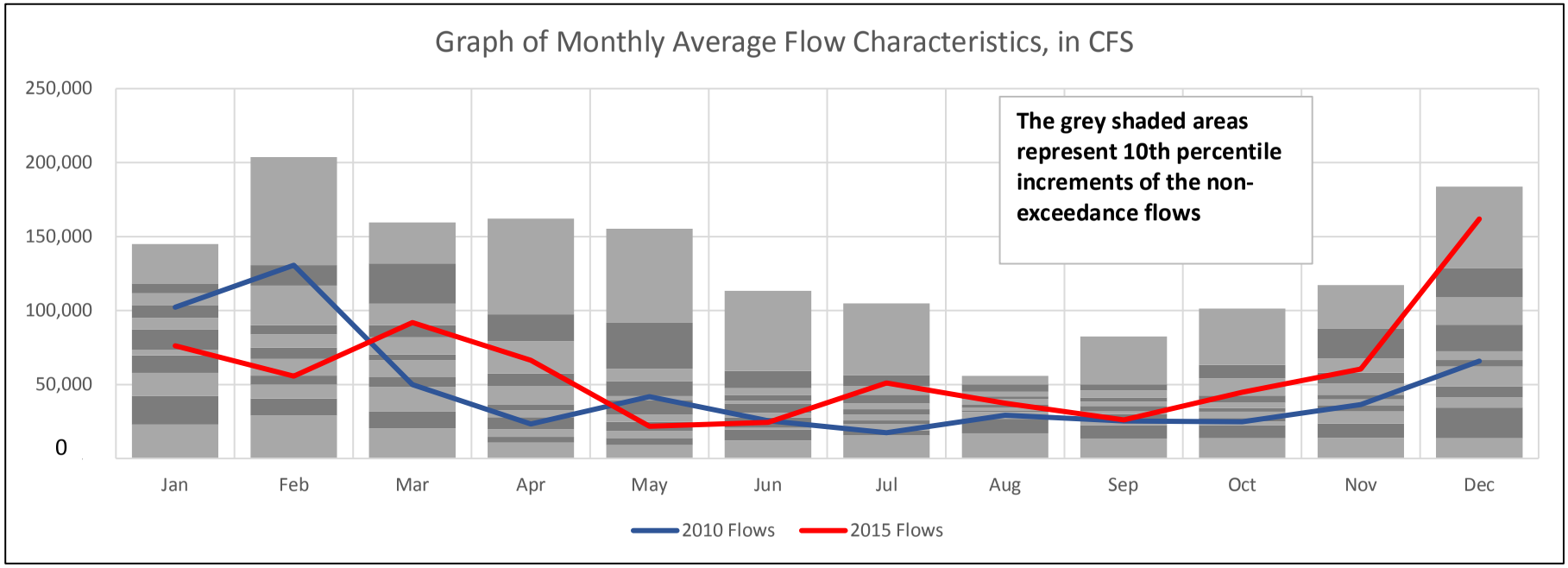
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	5,879	6,920	3,251	1,417	3,460	948	441	352	287	461	1,750	3,149
2015 Flows	5,781	3,916	6,361	5,048	1,713	1,439	2,251	948	621	809	3,065	10,650

Gage#: 06030005 Name: Pickwick Lake

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 1,411 square miles



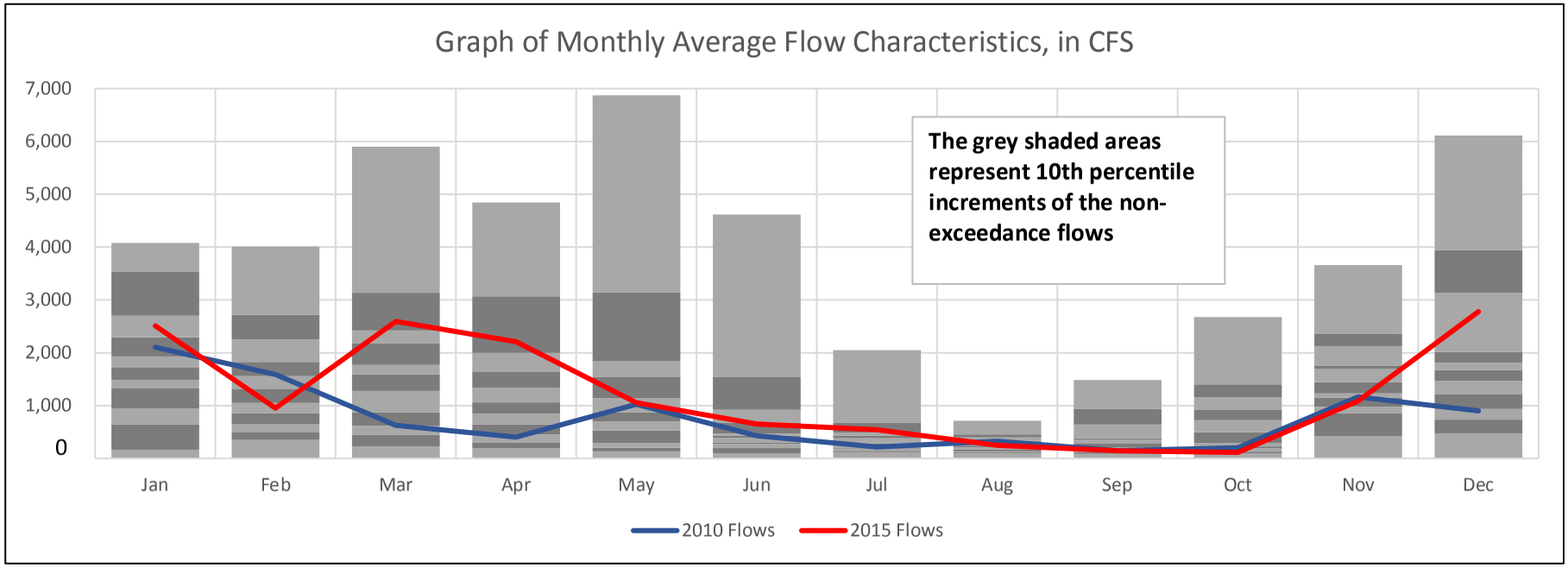
MONTHLY AVERAGE AND NON-EXCEEDANCE STATISTICS, in CFS

	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
2010 Flows	102,195	130,632	49,893	23,374	41,708	25,468	17,424	29,172	25,276	24,771	36,477	65,802
2015 Flows	76,182	55,652	91,936	66,306	21,768	24,357	50,952	37,304	26,173	44,678	60,423	161,898

Gage#: 06030006 Name: Bear Creek

Period of Record: Jan-1975 - Dec-2014

Drainage Area: 795 square miles



MONTHLY AVERAGE AND NON-EXCEEDANCE 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
2010 Flows	2,106	1,591	629	403	1,025	431	218	326	149	204	1,166	904
2015 Flows	2,510	952	2,591	2,211	1,055	652	543	247	145	115	1,088	2,779

Appendix J

2010 and 2015 Subbasin Relative Net Demand (RND) Tables

This appendix contains the monthly, annual, and seasonal tabular summaries of subbasin Relative Net Demand (RND) ratios. For each year (2010 and 2015), the tables contain the monthly and annual RND ratios followed by the seasonal values for the four seasonal averages January – March, April – June, July – September, and October – December.

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Table J-1. 2010 Monthly relative net demand ratios.

Subbasin	Subbasin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
03130002	Middle Chattahoochee-Lake Harding	0.001	0.000	0.000	0.003	0.001	0.003	0.005	0.005	0.011	0.005	0.004	0.003
03130003	Middle Chattahoochee-Walter F George	0.001	0.001	0.001	0.004	0.002	0.009	0.014	0.012	0.018	0.010	0.007	0.004
03130004	Lower Chattahoochee	0.000	0.000	0.000	0.002	0.001	0.014	0.024	0.024	0.034	0.015	0.007	0.006
03130012	Chipola	-0.005	-0.004	-0.004	-0.002	0.001	0.019	0.032	0.022	0.014	0.000	-0.019	-0.020
03140103	Yellow	-0.002	-0.002	-0.002	-0.001	0.000	0.001	0.004	0.003	0.004	0.006	-0.002	-0.003
03140104	Blackwater	0.000	0.000	0.001	0.002	0.003	0.005	0.006	0.005	0.007	0.007	0.002	0.001
03140106	Perdido	-0.001	-0.001	-0.001	0.000	0.000	0.002	0.003	0.001	0.003	0.002	-0.002	-0.002
03140107	Perdido Bay	-0.006	-0.007	-0.008	-0.009	-0.007	-0.014	-0.016	-0.014	-0.015	-0.017	-0.017	-0.018
03140201	Upper Choctawhatchee	-0.005	-0.006	-0.005	-0.004	-0.002	0.004	0.010	0.003	-0.001	-0.011	-0.016	-0.012
03140202	Pea	-0.001	-0.001	-0.002	-0.003	-0.001	0.002	0.006	0.000	-0.005	-0.013	-0.012	-0.011
03140203	Lower Choctawhatchee	-0.003	-0.003	-0.003	-0.003	-0.001	0.004	0.009	0.002	-0.002	-0.011	-0.014	-0.011
03140301	Upper Conecuh	0.000	0.000	0.000	0.001	0.002	0.011	0.025	0.013	0.019	0.016	0.003	0.001
03140302	Patsaliga	0.000	0.000	0.000	0.001	0.001	0.005	0.011	0.008	0.010	0.004	0.001	0.001
03140303	Sepulga	-0.001	-0.001	-0.001	0.001	0.001	0.005	0.019	0.019	0.031	0.024	0.004	-0.002
03140304	Lower Conecuh	0.000	0.000	0.001	-0.001	-0.001	0.004	0.010	0.001	0.014	0.013	-0.003	-0.005
03140305	Escambia	-0.004	-0.005	-0.005	-0.006	-0.006	-0.006	-0.008	-0.008	-0.011	-0.013	-0.011	-0.011
03150105	Upper Coosa	0.000	0.000	0.000	0.001	0.001	0.002	0.005	0.004	0.004	0.003	0.001	0.001
03150106	Middle Coosa	-0.002	-0.002	-0.002	0.001	0.002	0.008	0.013	0.013	0.019	0.019	0.003	-0.001
03150107	Lower Coosa	-0.002	-0.002	-0.003	0.002	0.001	0.007	0.012	0.011	0.018	0.016	0.001	-0.002
03150108	Upper Tallapoosa	0.000	0.000	0.000	0.001	0.001	0.002	0.003	0.005	0.006	0.002	0.002	0.002
03150109	Middle Tallapoosa	0.001	0.001	0.001	0.007	0.004	0.009	0.023	0.020	0.018	0.015	0.005	0.008
03150110	Lower Tallapoosa	0.002	0.002	0.002	0.016	0.009	0.020	0.056	0.048	0.048	0.039	0.015	0.016
03150201	Upper Alabama	-0.003	-0.003	-0.003	-0.002	0.000	0.005	0.008	0.009	0.015	0.011	-0.002	-0.003
03150202	Cahaba	0.006	0.002	0.003	0.022	0.023	0.035	0.094	0.076	0.139	0.119	0.052	0.029
03150203	Middle Alabama	-0.001	-0.002	-0.002	0.001	0.003	0.010	0.021	0.023	0.033	0.026	0.006	0.002
03150204	Lower Alabama	-0.002	-0.003	-0.003	0.002	0.002	0.009	0.019	0.020	0.028	0.021	0.004	0.001
03160101	Upper Tombigbee	0.000	0.000	0.001	0.001	0.000	0.002	0.009	0.007	0.003	0.007	0.003	0.002
03160103	Buttahatchee	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.007	0.010	0.011	0.005	0.003
03160105	Luxapallila	0.002	0.001	-0.001	0.002	0.001	0.003	0.005	-0.082	-0.066	0.048	0.006	0.004
03160106	Middle Tombigbee-Lubbub	0.000	0.000	0.000	0.001	0.001	0.003	0.011	0.012	0.018	0.024	0.008	0.003
03160107	Sipsey	-0.001	-0.001	0.000	0.000	0.000	0.002	0.007	0.009	0.014	0.012	0.000	0.000
03160108	Noxubee	-0.001	-0.004	-0.003	-0.005	0.000	-0.002	0.007	0.011	0.018	0.022	0.008	0.004
03160109	Mulberry	0.022	0.018	0.016	0.030	0.019	0.091	0.148	0.194	0.314	0.546	0.367	0.118
03160110	Sipsey Fork	0.004	0.003	0.007	0.006	0.004	0.019	0.034	0.047	0.105	0.210	0.259	0.133
03160111	Locust	-0.046	-0.049	-0.036	-0.025	-0.032	-0.050	-0.071	-0.072	-0.200	-0.076	-0.124	-0.138
03160112	Upper Black Warrior	-0.015	-0.015	-0.013	-0.007	-0.008	0.006	0.046	0.076	0.154	0.153	-0.019	-0.029
03160113	Lower Black Warrior	-0.008	-0.007	-0.008	-0.003	-0.004	0.009	0.037	0.079	0.215	0.117	0.007	-0.007
03160201	Middle Tombigbee-Chickasaw	-0.003	-0.003	-0.004	0.000	-0.001	0.008	0.023	0.043	0.087	0.056	0.011	0.002
03160202	Sucarnoochee	0.000	0.000	0.000	0.002	0.003	0.007	0.009	0.009	0.021	0.014	0.002	0.003
03160203	Lower Tombigbee	-0.004	-0.005	-0.005	-0.001	-0.001	0.006	0.018	0.034	0.062	0.034	-0.001	-0.002
03160204	Mobile-Tensaw	-0.005	-0.005	-0.005	-0.001	-0.001	0.005	0.015	0.020	0.030	0.018	-0.003	-0.003
03160205	Mobile Bay	-0.015	-0.018	-0.014	0.005	0.003	0.015	0.034	0.019	0.026	0.009	-0.015	-0.037
03170002	Upper Chickasawhay	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000
03170003	Lower Chickasawhay	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03170008	Escatawpa	0.041	0.027	0.060	0.176	0.062	0.195	0.218	0.227	0.444	0.455	0.237	0.263
03170009	Mississippi Coastal	-0.016	-0.032	-0.024	-0.028	-0.023	-0.017	-0.016	-0.016	-0.023	-0.028	-0.027	-0.039
06020001	Middle Tennessee-Chickamauga	0.001	0.001	0.002	0.005	0.004	0.012	0.041	0.047	0.079	0.065	0.017	0.006
06030001	Guntersville Lake	0.000	-0.001	-0.001	-0.003	-0.003	-0.001	0.000	0.000	0.000	0.000	0.000	0.000
06030002	Wheeler Lake	0.000	-0.001	-0.001	0.000	-0.001	0.003	0.008	0.005	0.004	0.003	0.001	0.000
06030003	Upper Elk	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06030004	Lower Elk	0.002	0.002	0.004	0.010	0.005	0.020	0.047	0.055	0.056	0.030	0.007	0.003
06030005	Pickwick Lake	-0.001	-0.001	-0.001	0.000	0.000	0.004	0.010	0.005	0.006	0.005	0.002	0.001
06030006	Bear	0.000	-0.001	0.000	0.003	0.001	0.009	0.023	0.019	0.058	0.029	0.002	0.003

Table J-2. 2010 Seasonal and average annual relative net demand ratios.

Subbasin	Subbasin Name	January - March	April - June	July - September	October - December	Annual
03130002	Middle Chattahoochee-Lake Harding	0.002	0.000	0.002	0.007	0.004
03130003	Middle Chattahoochee-Walter F George	0.004	0.001	0.005	0.015	0.007
03130004	Lower Chattahoochee	0.004	0.000	0.006	0.027	0.009
03130012	Chipola	-0.001	-0.005	0.006	0.023	-0.013
03140103	Yellow	-0.001	-0.002	0.000	0.004	0.000
03140104	Blackwater	0.002	0.000	0.003	0.006	0.003
03140106	Perdido	0.000	-0.001	0.001	0.002	-0.001
03140107	Perdido Bay	-0.011	-0.007	-0.010	-0.015	-0.017
03140201	Upper Choctawhatchee	-0.004	-0.005	-0.001	0.004	-0.013
03140202	Pea	-0.002	-0.001	0.000	0.000	-0.012
03140203	Lower Choctawhatchee	-0.003	-0.003	0.000	0.003	-0.012
03140301	Upper Conecuh	0.001	0.000	0.005	0.019	0.007
03140302	Patsaliga	0.001	0.000	0.002	0.009	0.002
03140303	Sepulga	0.000	-0.001	0.002	0.023	0.009
03140304	Lower Conecuh	0.000	0.000	0.001	0.008	0.002
03140305	Escambia	-0.006	-0.005	-0.006	-0.009	-0.012
03150105	Upper Coosa	0.001	0.000	0.001	0.004	0.002
03150106	Middle Coosa	0.001	-0.002	0.003	0.015	0.007
03150107	Lower Coosa	0.000	-0.002	0.003	0.013	0.005
03150108	Upper Tallapoosa	0.001	0.000	0.001	0.004	0.002
03150109	Middle Tallapoosa	0.005	0.001	0.007	0.020	0.009
03150110	Lower Tallapoosa	0.009	0.002	0.015	0.051	0.023
03150201	Upper Alabama	-0.001	-0.003	0.001	0.011	0.002
03150202	Cahaba	0.018	0.004	0.027	0.103	0.067
03150203	Middle Alabama	0.002	-0.002	0.005	0.026	0.011
03150204	Lower Alabama	0.002	-0.003	0.004	0.022	0.009
03160101	Upper Tombigbee	0.001	0.000	0.001	0.006	0.004
03160103	Buttahatchee	0.001	0.000	0.001	0.008	0.006
03160105	Luxapallila	0.000	0.001	0.002	-0.048	0.019
03160106	Middle Tombigbee-Lubbub	0.001	0.000	0.002	0.014	0.012
03160107	Sipsey	0.000	0.000	0.001	0.010	0.004
03160108	Noxubee	-0.002	-0.003	-0.002	0.012	0.012
03160109	Mulberry	0.048	0.019	0.047	0.219	0.344
03160110	Sipsey Fork	0.020	0.005	0.010	0.062	0.201
03160111	Locust	-0.046	-0.044	-0.035	-0.114	-0.113
03160112	Upper Black Warrior	-0.006	-0.014	-0.003	0.092	0.035
03160113	Lower Black Warrior	-0.001	-0.008	0.000	0.110	0.039
03160201	Middle Tombigbee-Chickasaw	0.001	-0.003	0.002	0.051	0.023
03160202	Sucarnoochee	0.001	0.000	0.004	0.013	0.006
03160203	Lower Tombigbee	0.000	-0.005	0.001	0.038	0.010
03160204	Mobile-Tensaw	-0.001	-0.005	0.001	0.022	0.004
03160205	Mobile Bay	-0.002	-0.016	0.007	0.026	-0.015
03170002	Upper Chickasawhay	0.000	0.000	0.000	0.000	0.000
03170003	Lower Chickasawhay	0.000	0.000	0.000	0.000	0.000
03170008	Escatawpa	0.097	0.043	0.144	0.296	0.318
03170009	Mississippi Coastal	-0.023	-0.024	-0.023	-0.018	-0.031
06020001	Middle Tennessee-Chickamauga	0.006	0.001	0.007	0.055	0.029
06030001	Guntersville Lake	-0.001	-0.001	-0.002	0.000	0.000
06030002	Wheeler Lake	0.001	-0.001	0.001	0.006	0.002
06030003	Upper Elk	0.000	0.000	0.000	0.000	0.000
06030004	Lower Elk	0.006	0.003	0.011	0.053	0.013
06030005	Pickwick Lake	0.001	-0.001	0.001	0.007	0.002
06030006	Bear	0.004	0.000	0.004	0.033	0.011

Table J-3. 2015 Monthly relative net demand ratios.

Subbasin	Subbasin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
03130002	Middle Chattahoochee-Lake Harding	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.000	0.000
03130003	Middle Chattahoochee-Walter F George	0.002	0.001	0.003	0.001	0.006	0.009	0.012	0.013	0.012	0.008	0.002	0.000
03130004	Lower Chattahoochee	0.005	0.004	0.004	0.000	0.008	0.017	0.024	0.023	0.021	0.015	0.002	0.000
03130012	Chipola	-0.007	-0.007	-0.006	-0.005	-0.003	0.001	0.001	0.005	-0.007	-0.004	-0.007	-0.007
03140103	Yellow	-0.003	-0.002	-0.002	-0.001	0.002	0.007	0.007	0.010	0.006	0.001	-0.002	-0.001
03140104	Blackwater	0.000	0.001	0.002	0.001	0.003	0.006	0.007	0.012	0.008	0.007	0.001	0.000
03140106	Perdido	-0.003	-0.002	-0.002	-0.002	0.000	0.003	0.004	0.006	0.006	0.002	-0.001	-0.001
03140107	Perdido Bay	-0.011	-0.010	-0.006	-0.005	-0.008	-0.012	-0.013	-0.008	-0.009	-0.008	-0.007	-0.004
03140201	Upper Choctawhatchee	-0.010	-0.009	-0.008	-0.006	-0.005	0.001	0.006	0.005	-0.007	-0.011	-0.010	-0.005
03140202	Pea	-0.003	-0.005	-0.003	-0.001	0.000	0.004	0.006	0.007	-0.003	-0.002	-0.002	-0.001
03140203	Lower Choctawhatchee	-0.006	-0.007	-0.005	-0.003	-0.002	0.003	0.007	0.007	-0.004	-0.005	-0.004	-0.003
03140301	Upper Conecuh	0.000	0.000	0.001	0.000	0.006	0.014	0.031	0.044	0.030	0.018	0.001	0.000
03140302	Patsaliga	0.000	0.001	0.001	0.001	0.004	0.008	0.019	0.029	0.016	0.009	0.001	0.000
03140303	Sepulga	-0.001	-0.002	-0.001	-0.001	0.000	0.002	0.008	0.012	0.012	0.004	-0.001	-0.001
03140304	Lower Conecuh	-0.005	-0.002	-0.003	-0.003	0.001	0.004	0.008	0.015	0.008	0.005	0.002	-0.001
03140305	Escambia	-0.003	-0.003	-0.002	-0.002	-0.001	-0.001	-0.002	-0.002	-0.002	-0.003	-0.003	-0.001
03150105	Upper Coosa	0.000	0.000	0.000	0.000	0.002	0.004	0.004	0.006	0.006	0.003	0.000	0.000
03150106	Middle Coosa	-0.002	0.000	-0.002	-0.003	0.009	0.018	0.014	0.025	0.011	0.006	-0.001	-0.002
03150107	Lower Coosa	-0.003	-0.002	-0.002	-0.003	0.008	0.018	0.015	0.025	0.013	0.006	-0.002	-0.002
03150108	Upper Tallapoosa	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.003	0.005	0.002	0.000	0.000
03150109	Middle Tallapoosa	0.003	0.005	0.010	0.003	0.009	0.013	0.018	0.024	0.025	0.015	0.004	0.002
03150110	Lower Tallapoosa	0.004	0.008	0.014	0.005	0.014	0.027	0.036	0.054	0.060	0.030	0.005	0.002
03150201	Upper Alabama	-0.002	-0.002	-0.002	-0.002	0.005	0.012	0.014	0.025	0.020	0.008	-0.001	-0.001
03150202	Cahaba	0.006	0.012	0.007	0.003	0.037	0.064	0.058	0.080	0.121	0.172	0.029	0.006
03150203	Middle Alabama	-0.001	0.000	0.000	-0.001	0.010	0.019	0.023	0.042	0.038	0.020	0.001	-0.001
03150204	Lower Alabama	-0.001	0.000	0.000	-0.001	0.008	0.014	0.020	0.038	0.032	0.017	0.001	-0.001
03160101	Upper Tombigbee	0.000	0.001	0.001	0.000	0.001	0.004	0.002	0.007	0.007	0.006	0.001	0.000
03160103	Buttahatchee	0.000	0.000	0.000	0.000	0.001	0.003	0.001	0.003	0.009	0.009	0.001	0.000
03160105	Luxapallila	-0.005	-0.001	-0.001	-0.002	-0.009	0.007	0.016	0.009	0.026	0.026	0.004	0.000
03160106	Middle Tombigbee-Lubbub	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.004	0.009	0.007	0.000	0.000
03160107	Sipsey	0.000	0.000	-0.001	-0.001	0.002	0.010	0.010	0.010	0.013	0.016	0.000	-0.001
03160108	Noxubee	0.000	0.000	0.000	0.000	0.008	0.008	0.026	0.037	0.079	0.068	0.001	0.000
03160109	Mulberry	0.013	0.042	0.013	0.011	0.062	0.107	0.086	0.085	0.110	0.188	0.066	0.008
03160110	Sipsey Fork	0.009	0.013	0.002	0.004	0.028	0.025	0.019	0.014	0.016	0.031	0.016	0.005
03160111	Locust	-0.042	-0.049	-0.049	-0.044	-0.123	-0.172	-0.195	-0.188	-0.360	-0.731	-0.211	-0.036
03160112	Upper Black Warrior	-0.010	-0.008	-0.014	-0.011	0.005	0.045	0.025	0.016	0.044	0.129	-0.003	-0.007
03160113	Lower Black Warrior	-0.005	-0.003	-0.010	-0.008	0.008	0.031	0.025	0.023	0.045	0.117	0.001	-0.009
03160201	Middle Tombigbee-Chickasaw	-0.003	-0.001	-0.003	-0.004	0.002	0.009	0.007	0.012	0.028	0.041	0.000	-0.005
03160202	Sucarnoochee	0.000	0.000	0.000	0.000	0.002	0.003	0.005	0.014	0.017	0.008	0.000	0.000
03160203	Lower Tombigbee	-0.003	-0.002	-0.003	-0.005	0.001	0.006	0.006	0.009	0.020	0.028	-0.001	-0.008
03160204	Mobile-Tensaw	-0.003	-0.003	-0.004	-0.005	0.002	0.008	0.011	0.019	0.021	0.016	-0.001	-0.006
03160205	Mobile Bay	-0.037	-0.025	-0.015	-0.006	-0.001	0.012	0.023	0.021	0.009	-0.018	-0.029	-0.015
03170002	Upper Chickasawhay	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03170003	Lower Chickasawhay	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
03170008	Escatawpa	0.066	0.113	0.053	0.059	0.057	0.117	0.150	0.294	0.316	0.178	0.069	0.033
03170009	Mississippi Coastal	-0.038	-0.049	-0.044	-0.015	-0.031	-0.039	-0.061	-0.057	-0.050	-0.048	-0.047	-0.027
06020001	Middle Tennessee-Chickamauga	0.001	0.003	0.002	0.002	0.014	0.030	0.021	0.040	0.054	0.015	0.004	0.001
06030001	Guntersville Lake	0.000	0.001	0.000	0.000	0.003	0.002	0.001	0.001	0.002	0.001	0.001	0.000
06030002	Wheeler Lake	0.000	0.000	-0.001	-0.001	0.004	0.008	0.004	0.006	0.006	0.003	0.001	0.000
06030003	Upper Elk	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
06030004	Lower Elk	0.002	0.003	0.002	0.003	0.010	0.015	0.010	0.021	0.026	0.018	0.004	0.001
06030005	Pickwick Lake	0.000	0.000	-0.001	-0.001	0.005	0.008	0.005	0.006	0.006	0.003	0.001	-0.001
06030006	Bear	0.001	0.005	0.000	0.001	0.005	0.013	0.019	0.042	0.063	0.067	0.005	0.000

Table J-4. 2015 Seasonal and average annual relative net demand ratios.

Subbasin	Subbasin Name	January - March	April - June	July - September	October - December	Annual
03130002	Middle Chattahoochee-Lake Harding	0.001	0.001	0.001	0.003	0.001
03130003	Middle Chattahoochee-Walter F George	0.003	0.002	0.005	0.013	0.003
03130004	Lower Chattahoochee	0.006	0.004	0.008	0.023	0.006
03130012	Chipola	-0.005	-0.007	-0.002	0.000	-0.006
03140103	Yellow	0.000	-0.002	0.003	0.008	-0.001
03140104	Blackwater	0.002	0.001	0.004	0.009	0.003
03140106	Perdido	0.000	-0.002	0.000	0.005	0.000
03140107	Perdido Bay	-0.008	-0.009	-0.008	-0.010	-0.007
03140201	Upper Choctawhatchee	-0.006	-0.009	-0.003	0.001	-0.008
03140202	Pea	-0.001	-0.004	0.001	0.003	-0.002
03140203	Lower Choctawhatchee	-0.003	-0.006	0.000	0.003	-0.004
03140301	Upper Conecuh	0.002	0.000	0.007	0.035	0.006
03140302	Patsaliga	0.002	0.001	0.004	0.021	0.003
03140303	Sepulga	0.000	-0.001	0.001	0.011	0.001
03140304	Lower Conecuh	-0.001	-0.004	0.001	0.010	0.002
03140305	Escambia	-0.002	-0.003	-0.002	-0.002	-0.002
03150105	Upper Coosa	0.001	0.000	0.002	0.005	0.001
03150106	Middle Coosa	0.001	-0.001	0.008	0.017	0.001
03150107	Lower Coosa	0.001	-0.002	0.008	0.018	0.001
03150108	Upper Tallapoosa	0.001	0.000	0.001	0.003	0.001
03150109	Middle Tallapoosa	0.006	0.006	0.008	0.022	0.007
03150110	Lower Tallapoosa	0.010	0.009	0.016	0.050	0.012
03150201	Upper Alabama	0.001	-0.002	0.005	0.020	0.002
03150202	Cahaba	0.019	0.008	0.035	0.086	0.069
03150203	Middle Alabama	0.004	0.000	0.009	0.034	0.006
03150204	Lower Alabama	0.004	0.000	0.007	0.030	0.005
03160101	Upper Tombigbee	0.001	0.001	0.002	0.005	0.002
03160103	Buttahatchee	0.001	0.000	0.001	0.004	0.003
03160105	Luxapallila	0.000	-0.002	-0.001	0.017	0.010
03160106	Middle Tombigbee-Lubbub	0.000	0.000	0.001	0.005	0.002
03160107	Sipsey	0.001	0.000	0.004	0.011	0.005
03160108	Noxubee	0.001	0.000	0.006	0.047	0.023
03160109	Mulberry	0.031	0.022	0.060	0.094	0.088
03160110	Sipsey Fork	0.011	0.008	0.019	0.016	0.018
03160111	Locust	-0.065	-0.047	-0.113	-0.248	-0.326
03160112	Upper Black Warrior	-0.005	-0.011	0.013	0.028	0.039
03160113	Lower Black Warrior	-0.002	-0.006	0.010	0.031	0.036
03160201	Middle Tombigbee-Chickasaw	-0.001	-0.002	0.003	0.016	0.012
03160202	Sucarnoochee	0.001	0.000	0.002	0.012	0.002
03160203	Lower Tombigbee	-0.001	-0.003	0.001	0.012	0.007
03160204	Mobile-Tensaw	0.000	-0.003	0.002	0.017	0.003
03160205	Mobile Bay	-0.009	-0.026	0.002	0.017	-0.021
03170002	Upper Chickasawhay	0.000	0.000	0.000	0.000	0.000
03170003	Lower Chickasawhay	0.000	0.000	0.000	0.000	0.000
03170008	Escatawpa	0.082	0.077	0.077	0.254	0.093
03170009	Mississippi Coastal	-0.037	-0.044	-0.028	-0.056	-0.041
06020001	Middle Tennessee-Chickamauga	0.004	0.002	0.015	0.038	0.006
06030001	Guntersville Lake	0.001	0.000	0.002	0.002	0.001
06030002	Wheeler Lake	0.001	0.000	0.004	0.005	0.001
06030003	Upper Elk	0.000	0.000	0.000	0.000	0.000
06030004	Lower Elk	0.004	0.002	0.009	0.019	0.008
06030005	Pickwick Lake	0.001	0.000	0.004	0.006	0.001
06030006	Bear	0.004	0.002	0.006	0.041	0.024

Appendix K

2010 and 2015 Monthly and Seasonal Relative Net Demand (RND) Ratio Maps by Subbasin

This appendix contains the 2010 and 2015 monthly and seasonal maps of subbasin Relative Net Demand (RND) ratios. 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 for each year.

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Figure K-1. Map of January 2010 Relative Net Demand (RND) ratios by subbasin.

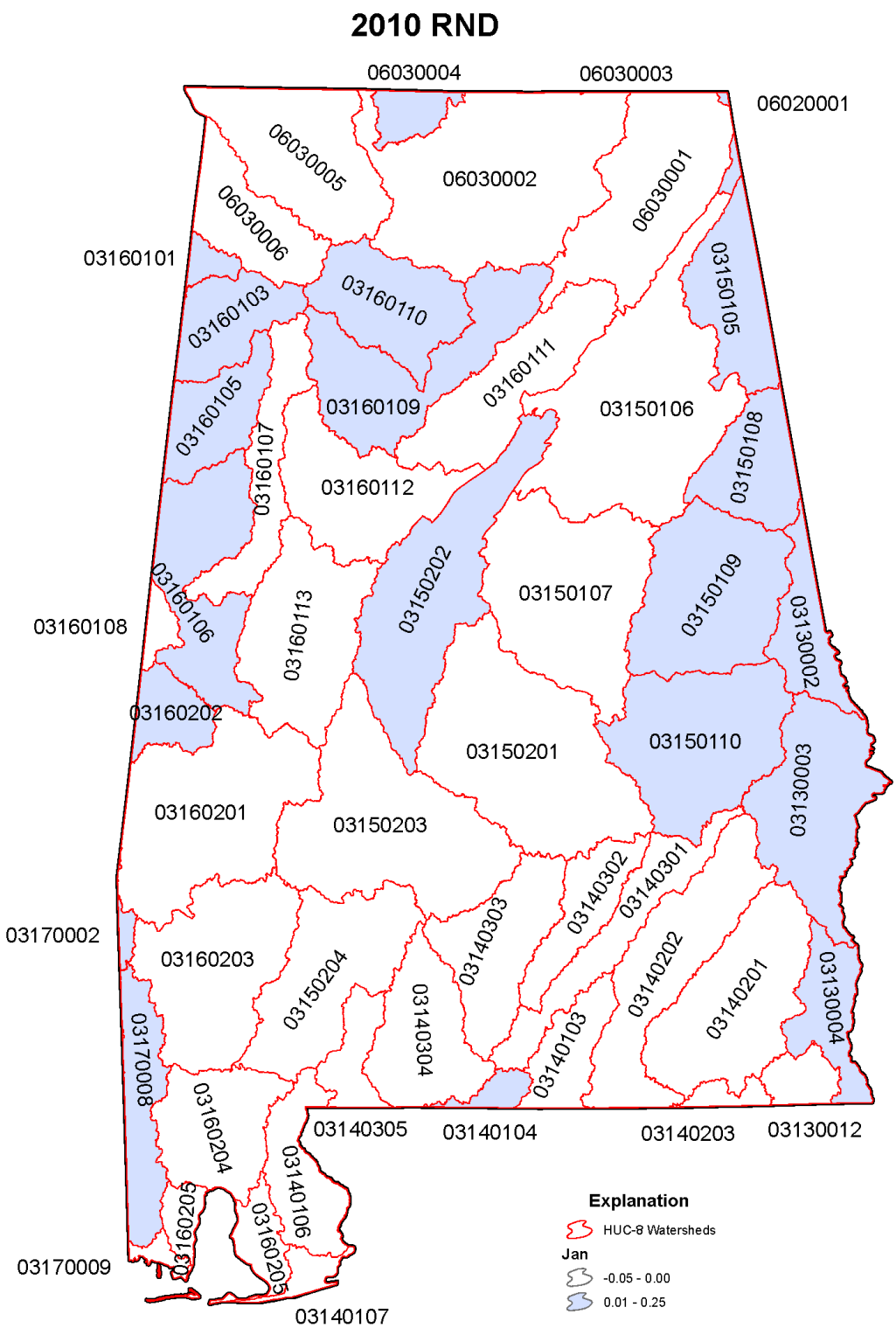

Figure K-2. Map of February 2010 Relative Net Demand (RND) ratios by subbasin.

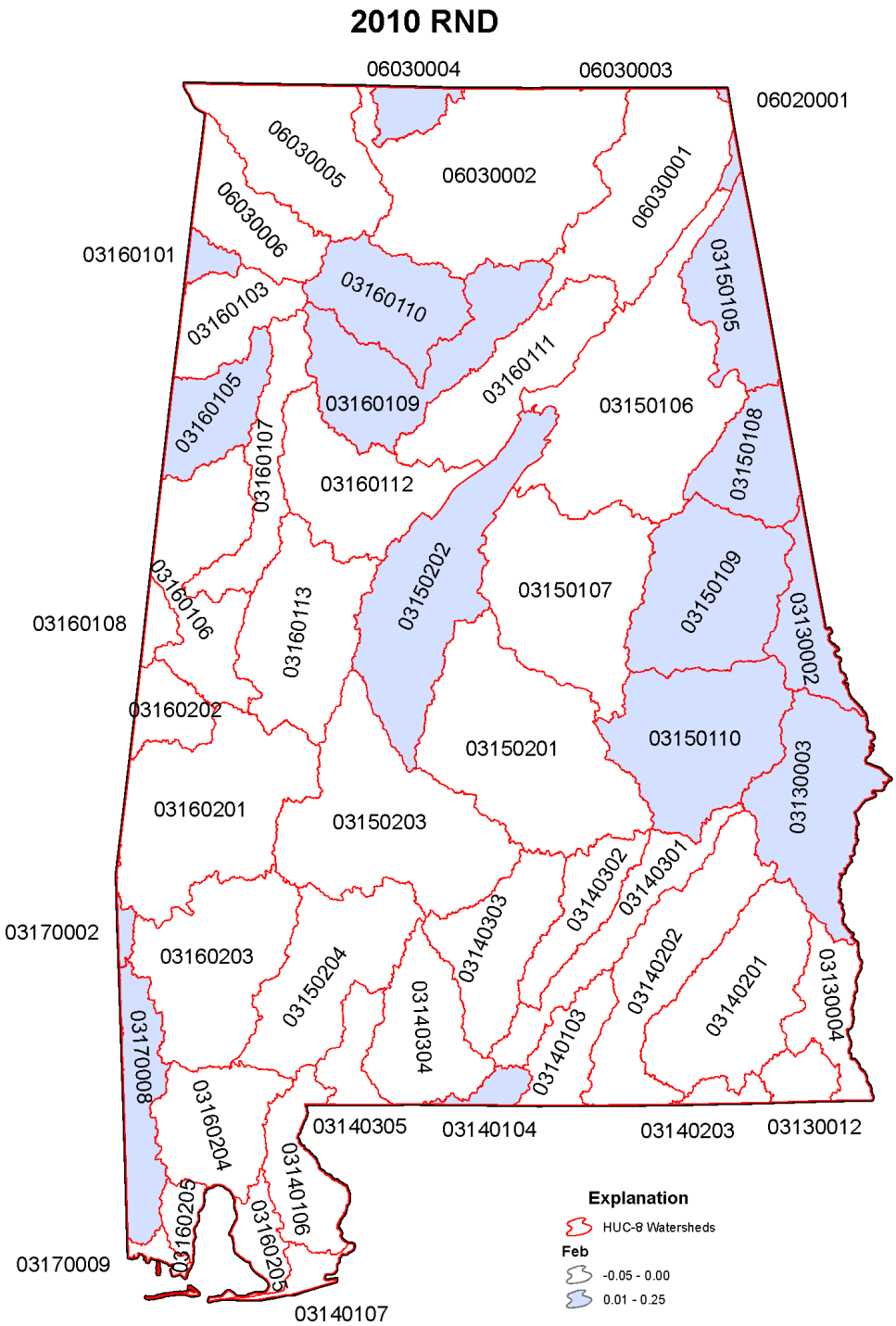

Figure K-3. Map of March 2010 Relative Net Demand (RND) ratios by subbasin.

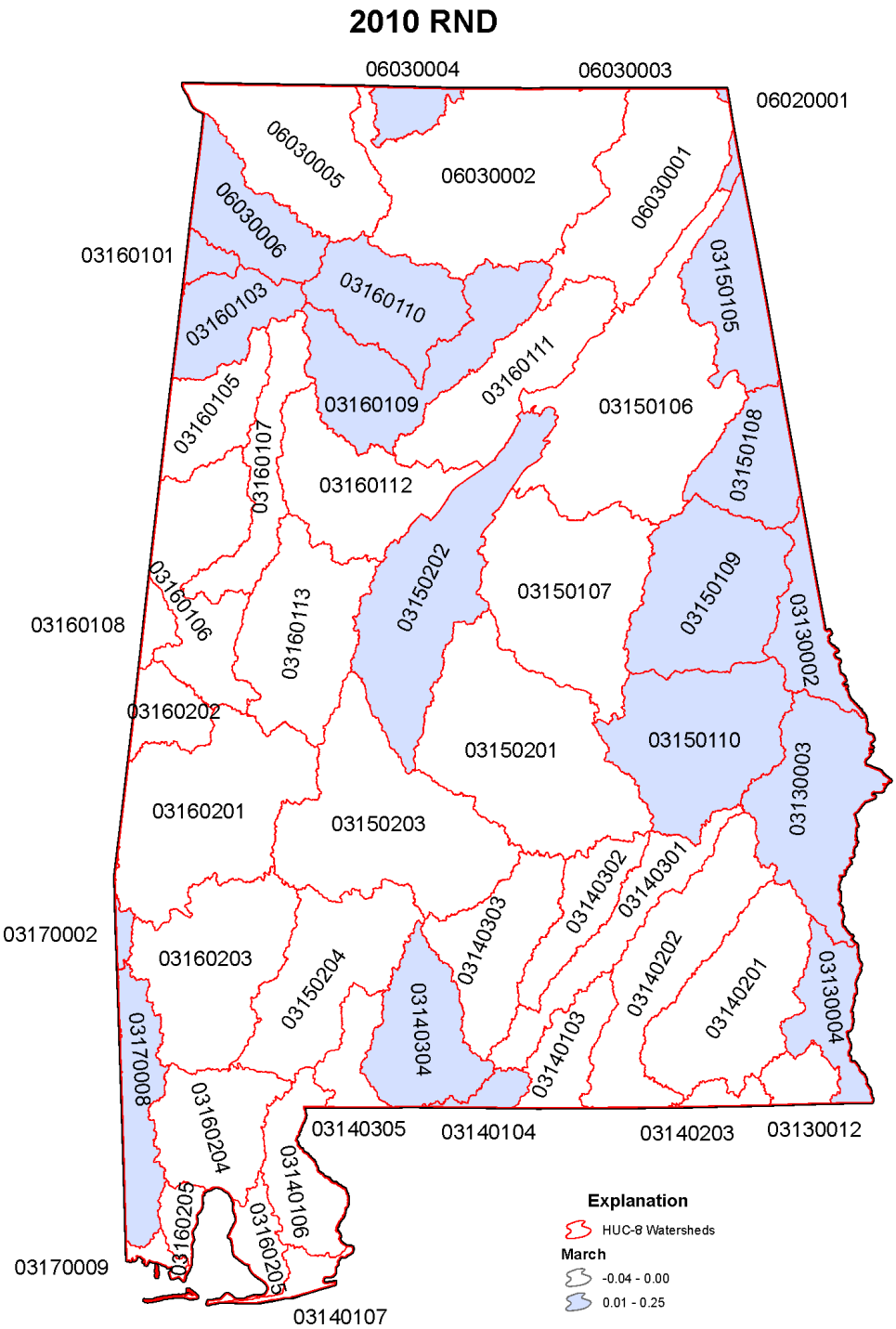

Figure K-4. Map of April 2010 Relative Net Demand (RND) ratios by subbasin.

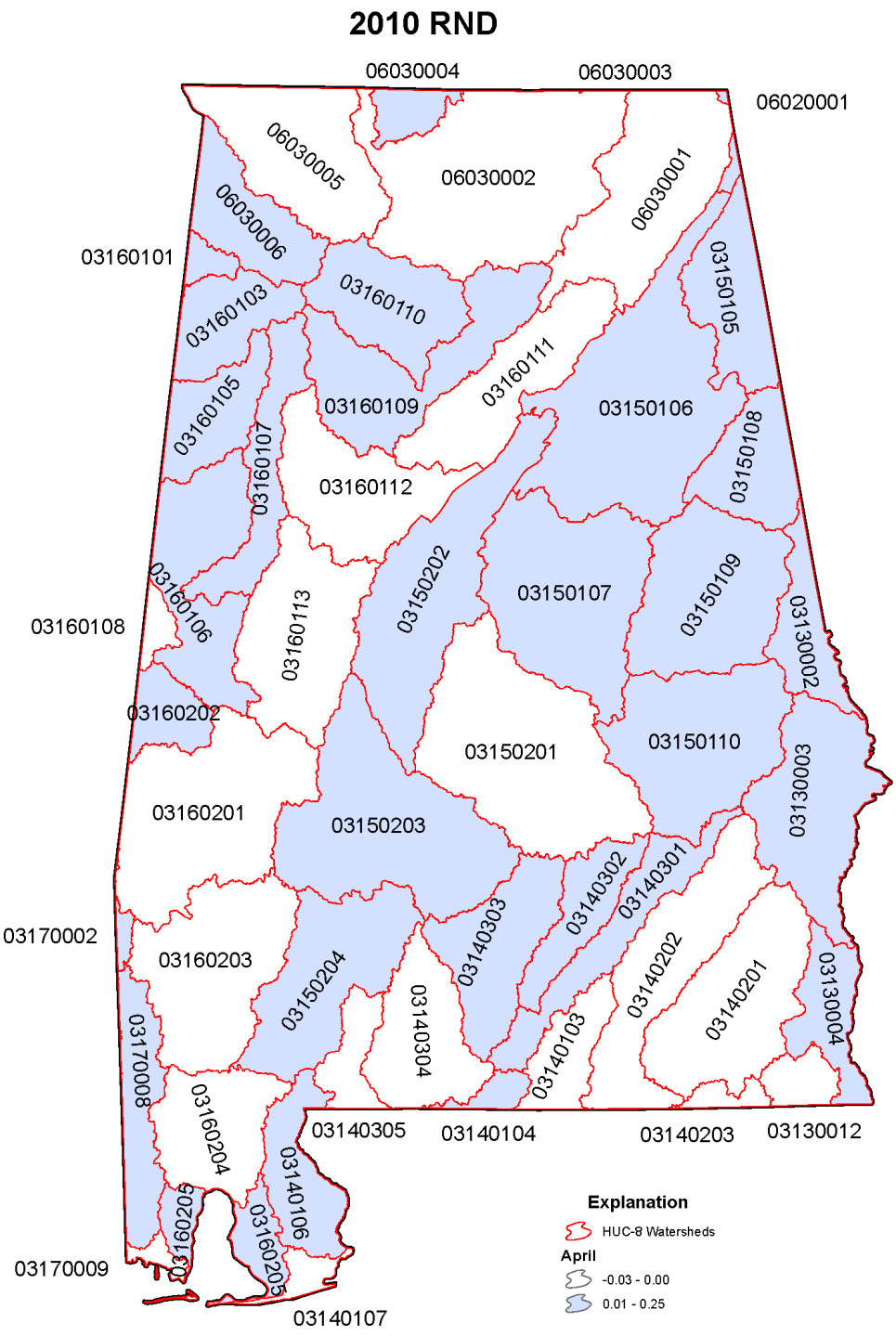

Figure K-5. Map of May 2010 Relative Net Demand (RND) ratios by subbasin.

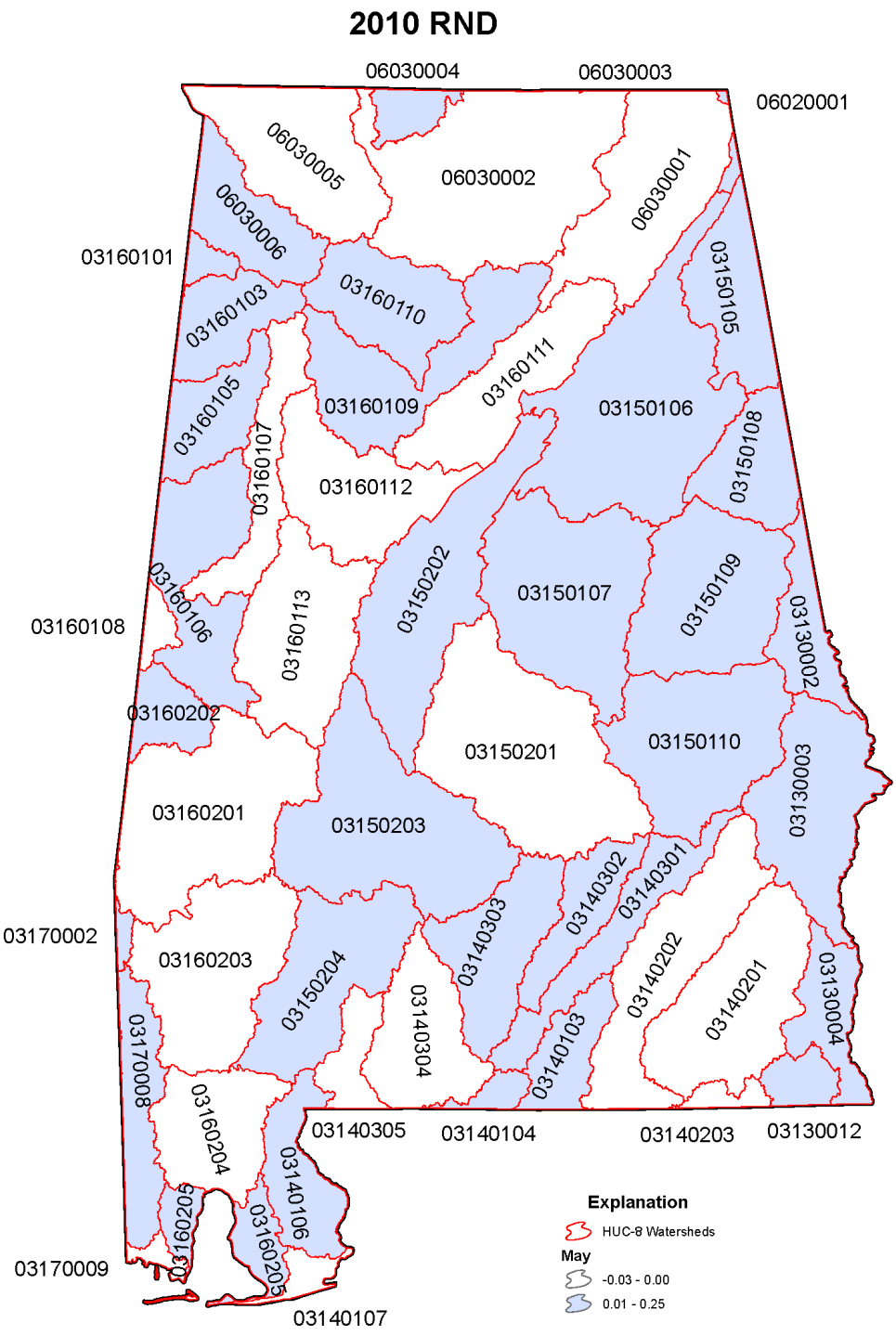

Figure K-6. Map of June 2010 Relative Net Demand (RND) ratios by subbasin.

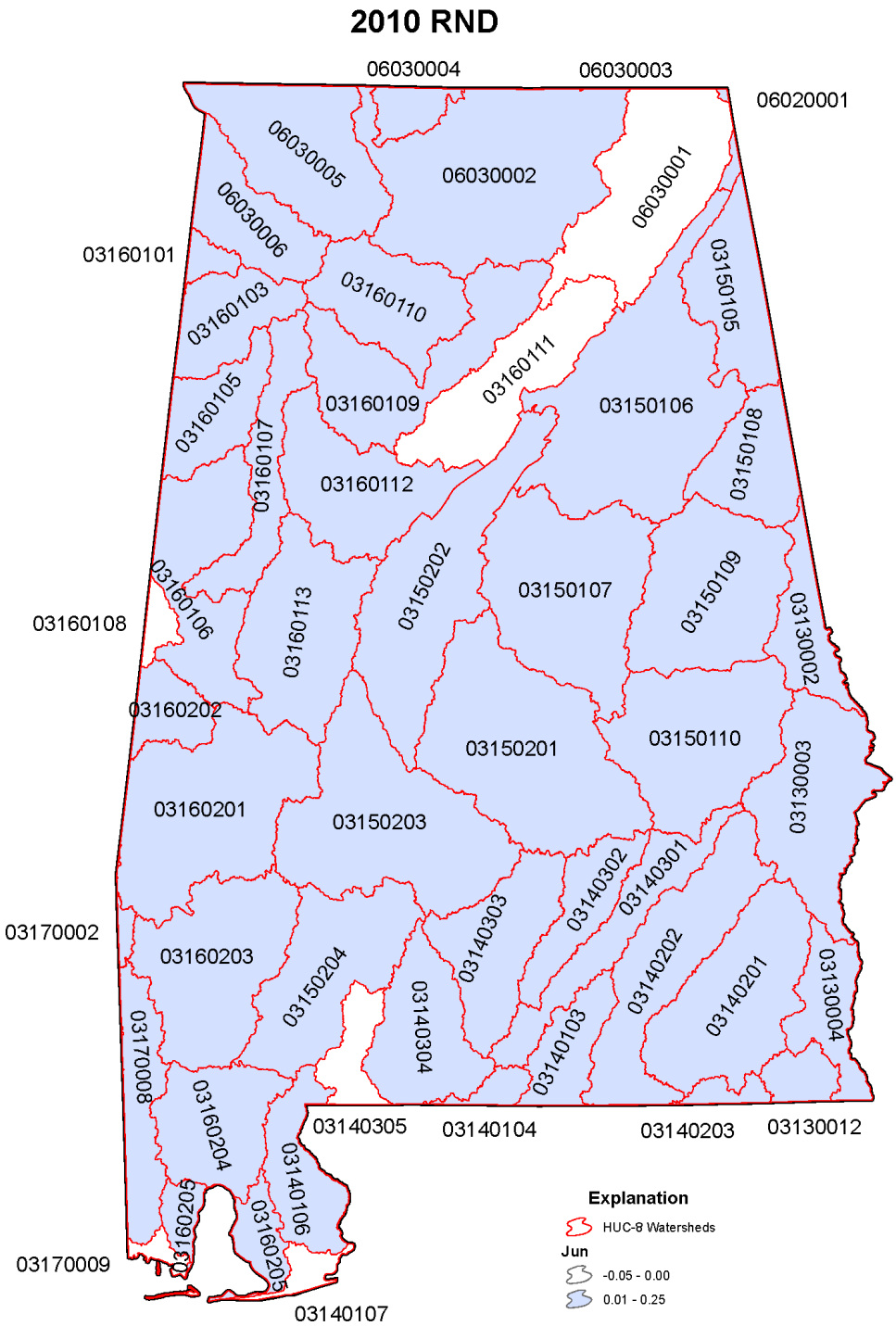

Figure K-7. Map of July 2010 Relative Net Demand (RND) ratios by subbasin.

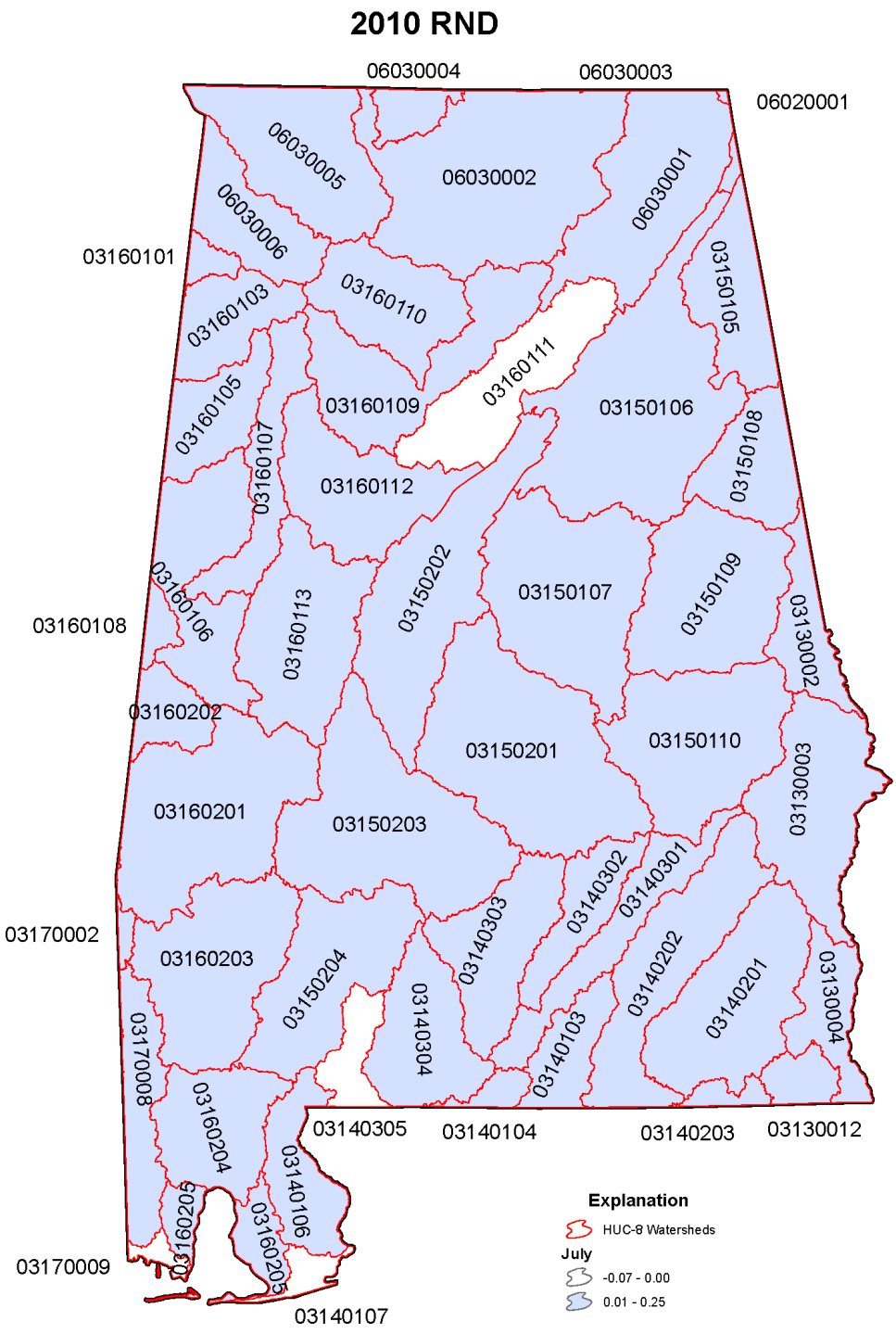

Figure K-8. Map of August 2010 Relative Net Demand (RND) ratios by subbasin.

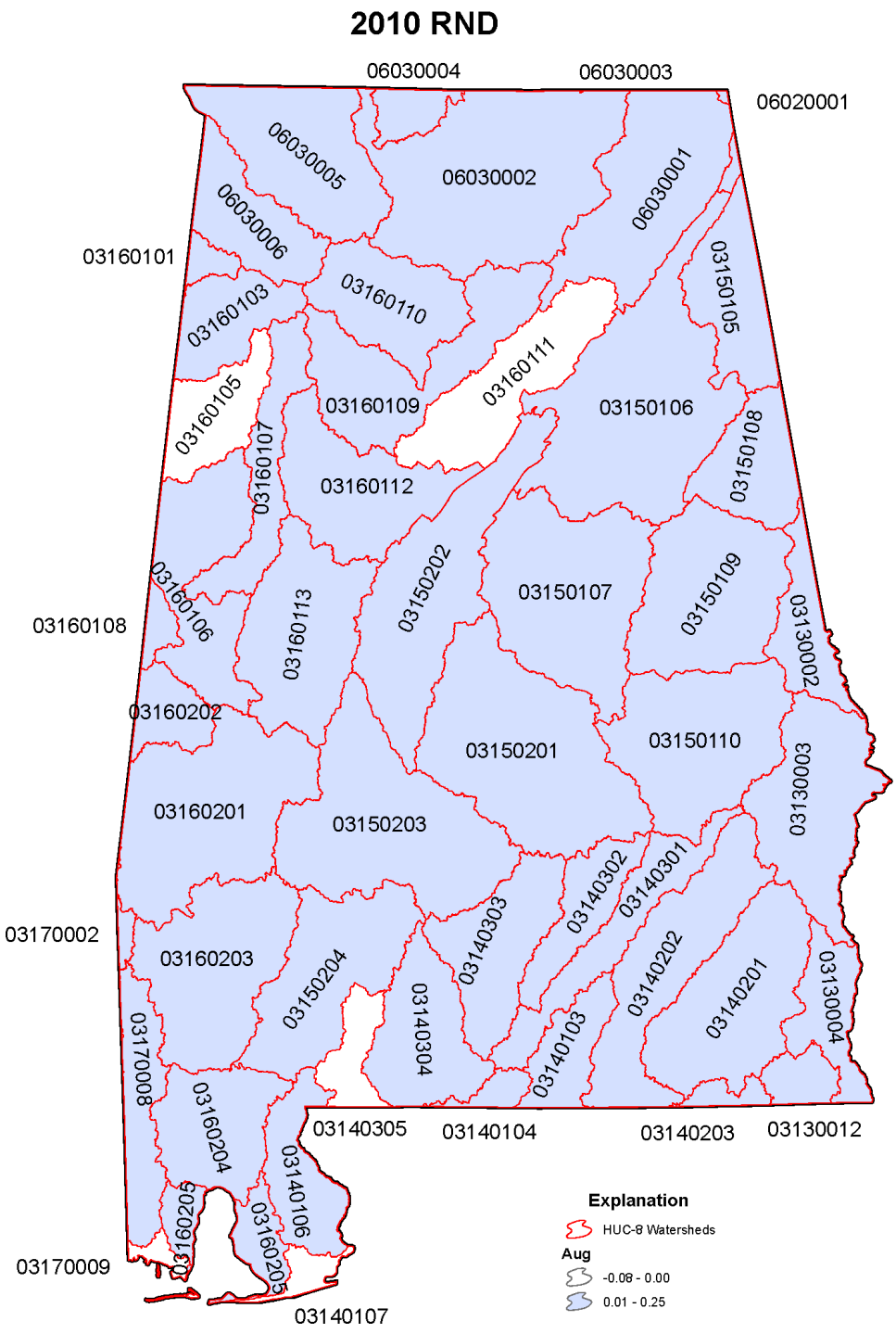

Figure K-9. Map of September 2010 Relative Net Demand (RND) ratios by subbasin..

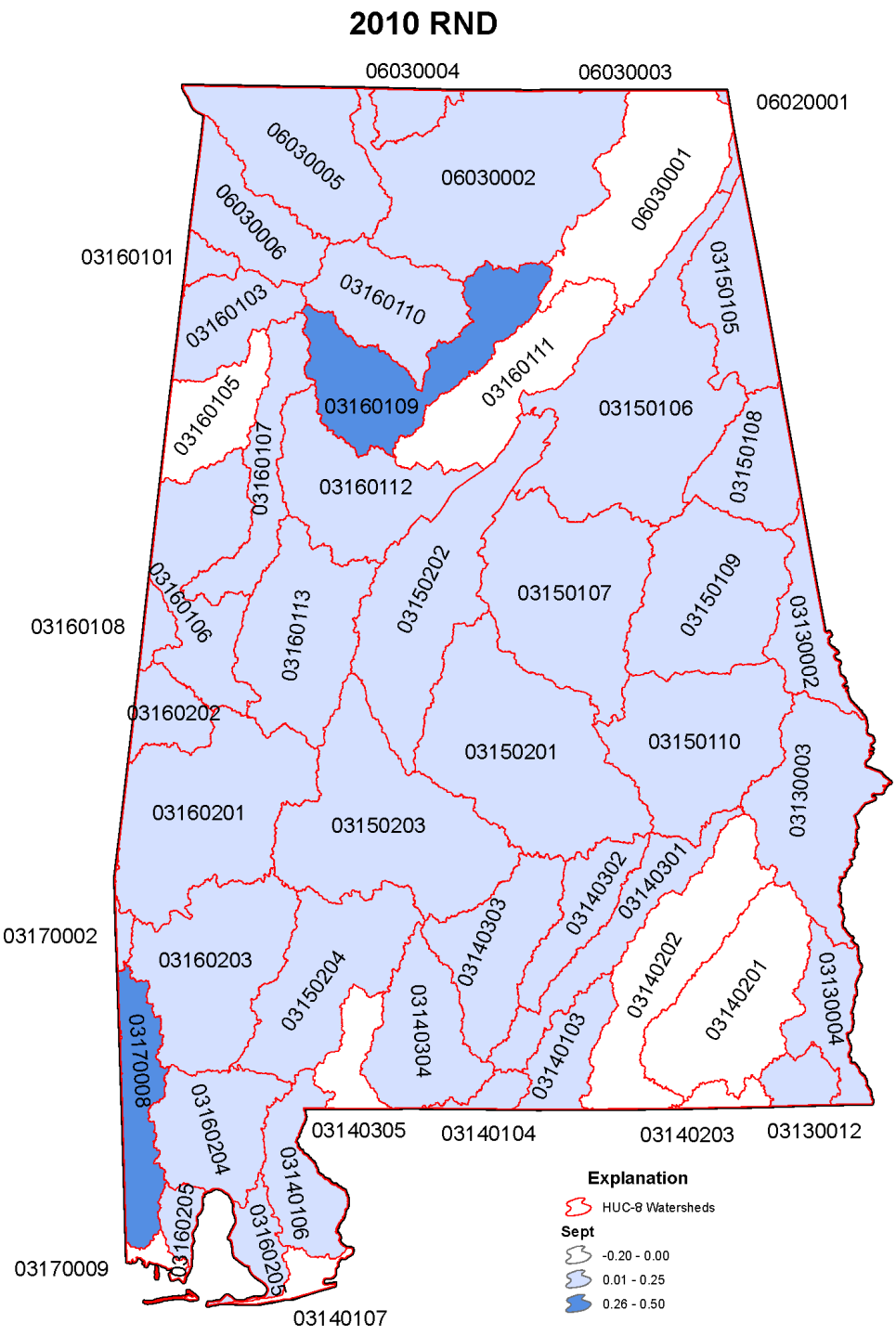

Figure K-10. Map of October 2010 Relative Net Demand (RND) ratios by subbasin.

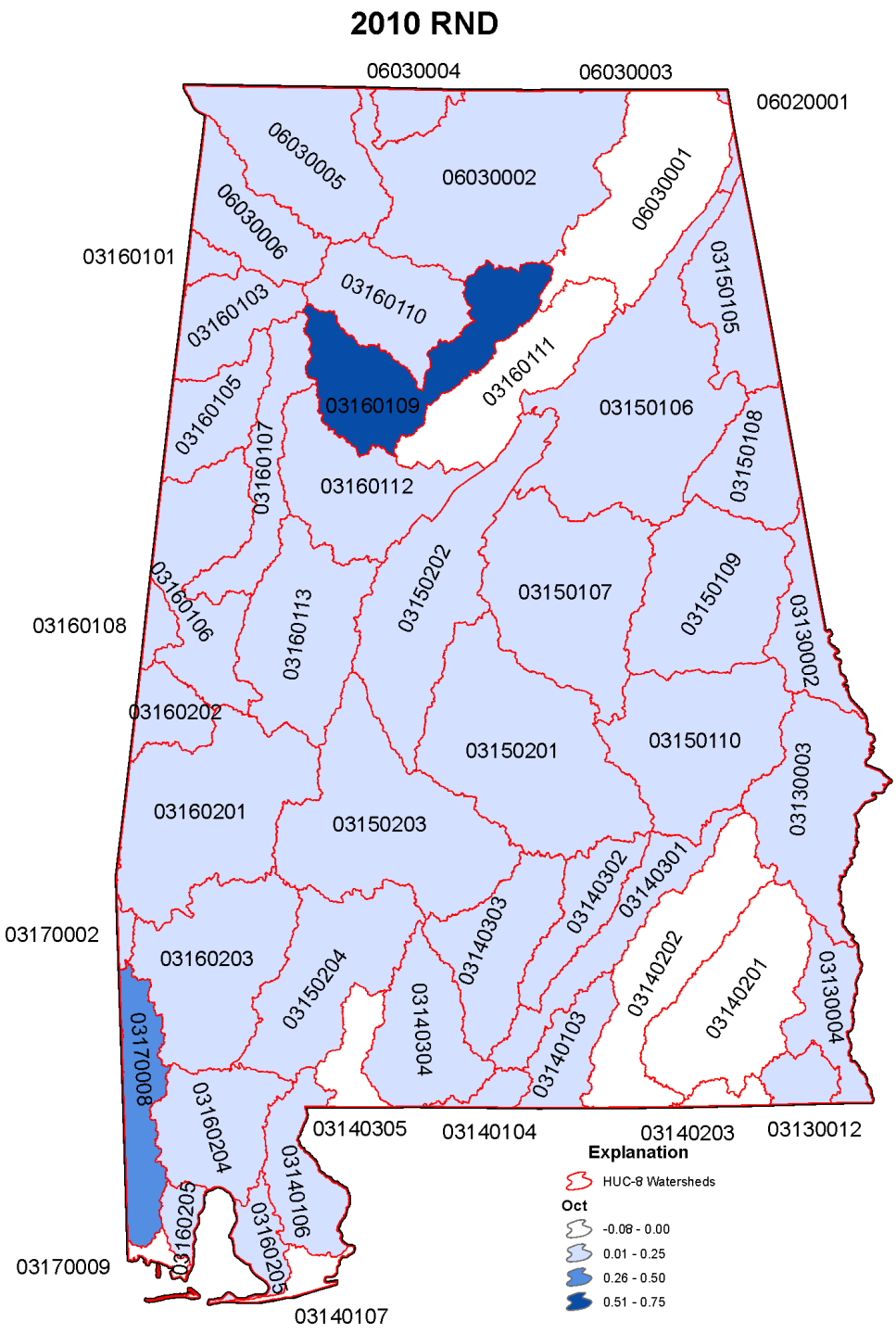

Figure K-11. Map of November 2010 Relative Net Demand (RND) ratios by subbasin.

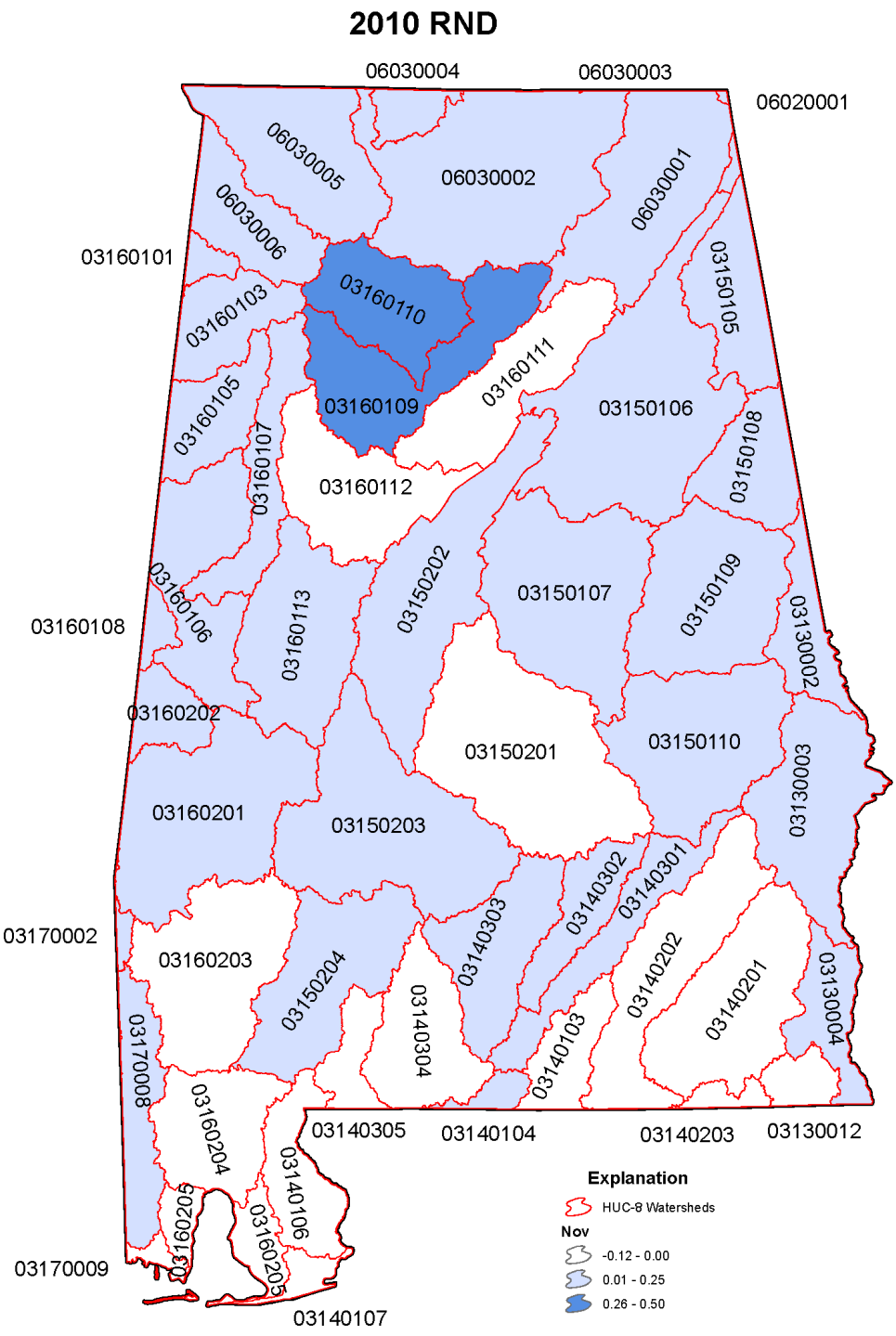

Figure K-12. Map of December 2010 Relative Net Demand (RND) ratios by subbasin.

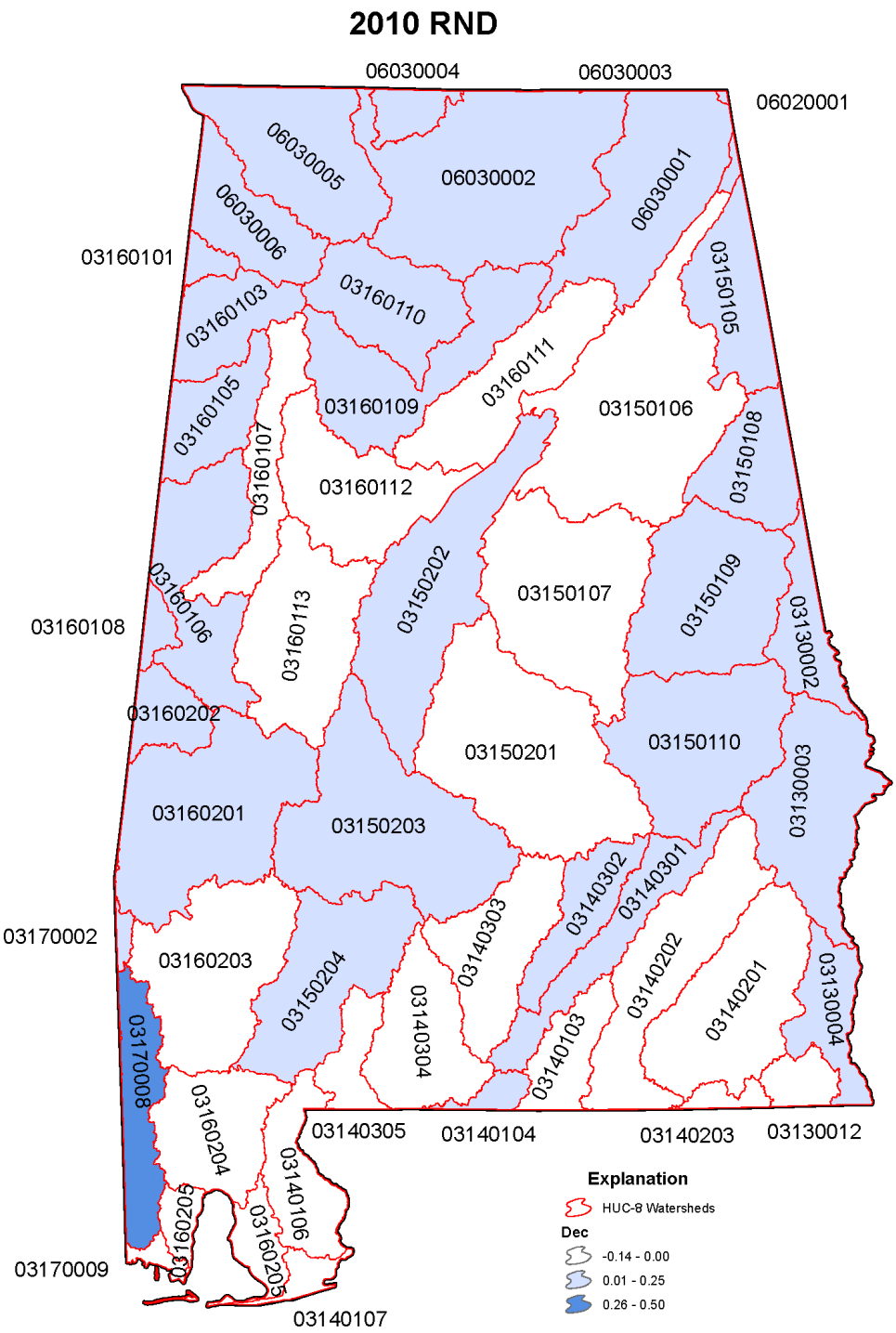

Figure K-13. Map of January – March seasonal 2010 Relative Net Demand (RND) ratios by subbasin.

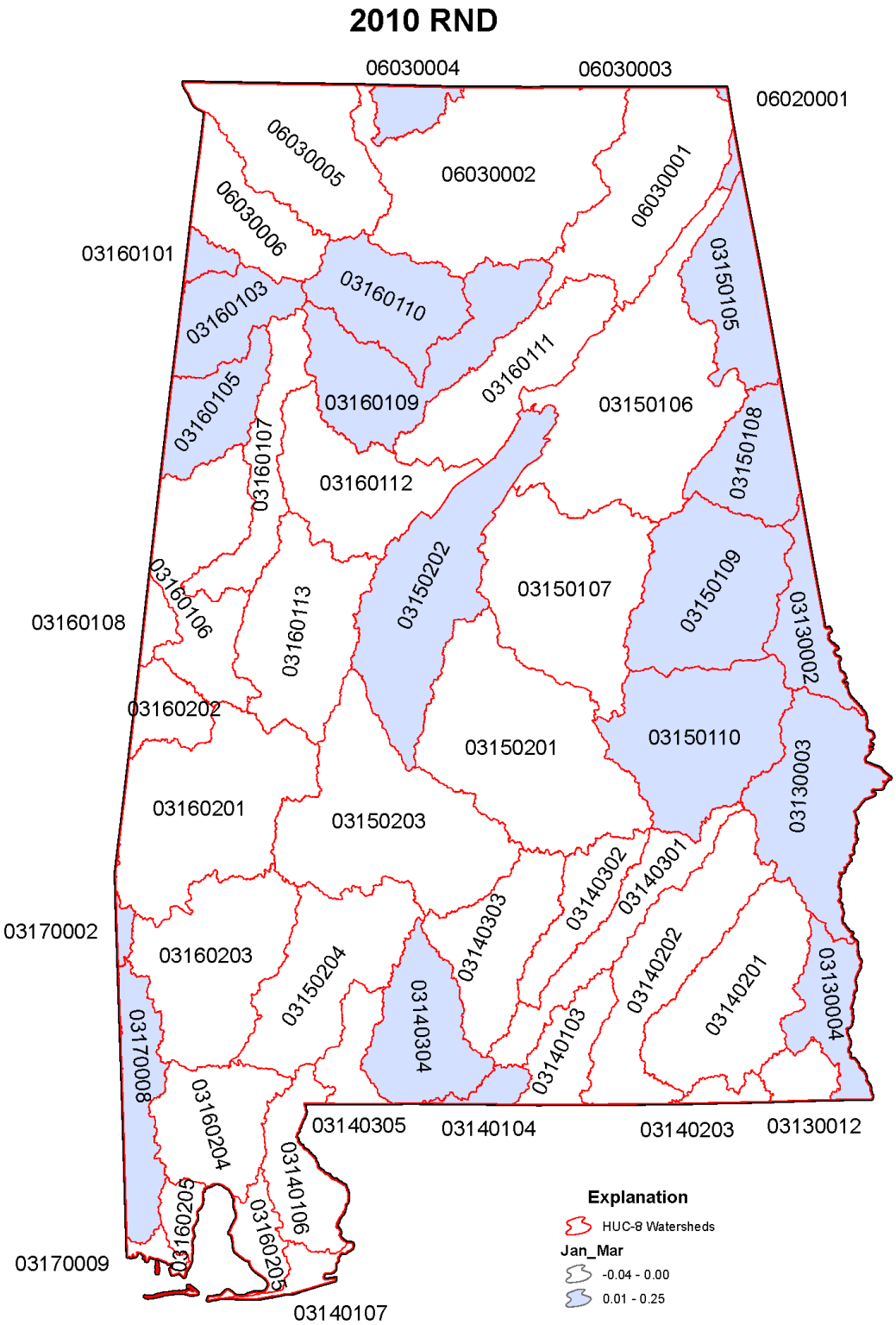

Figure K-14. Map of April - June seasonal 2010 Relative Net Demand (RND) ratios by subbasin.

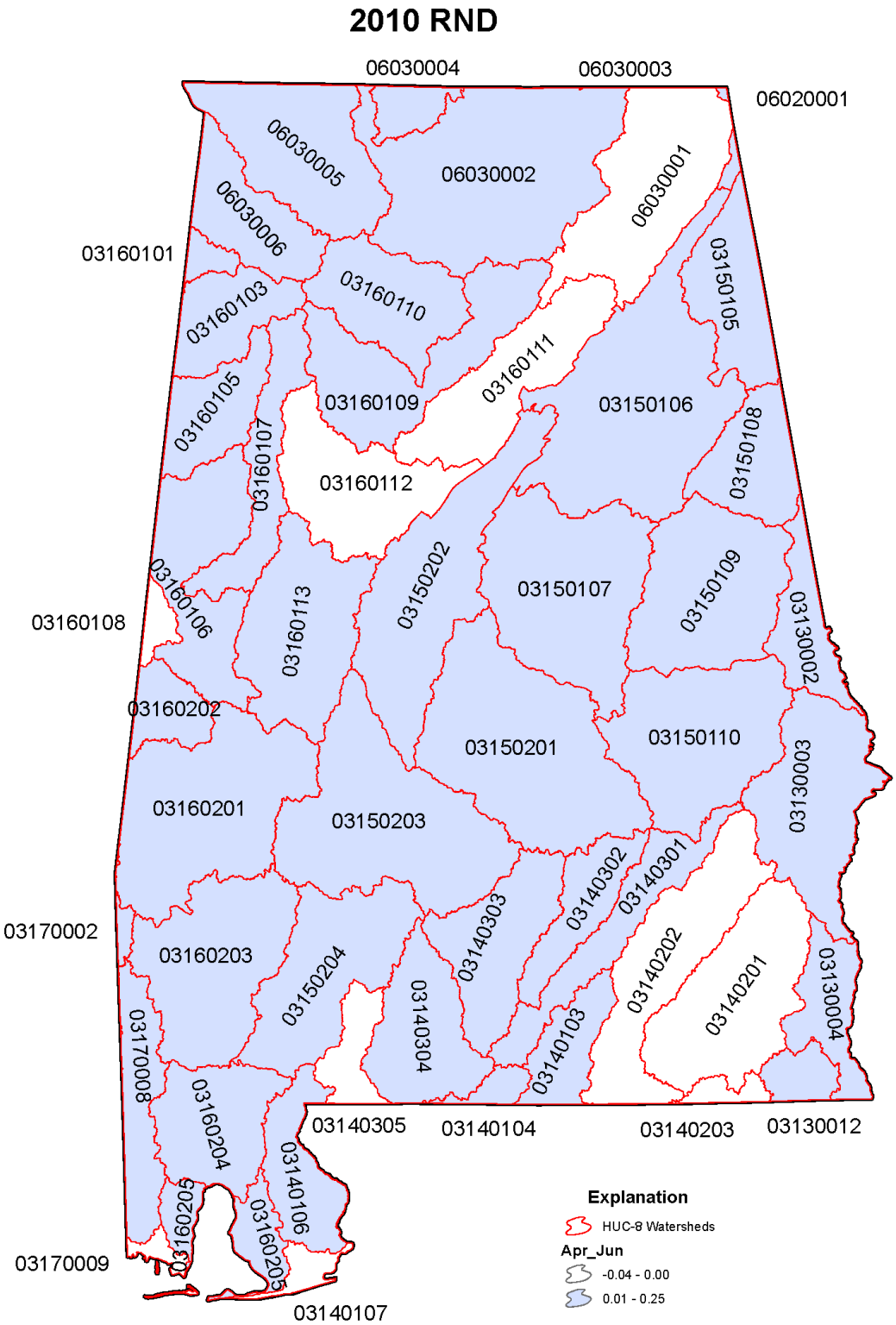

Figure K-15. Map of July - September seasonal 2010 Relative Net Demand (RND) ratios by subbasin.

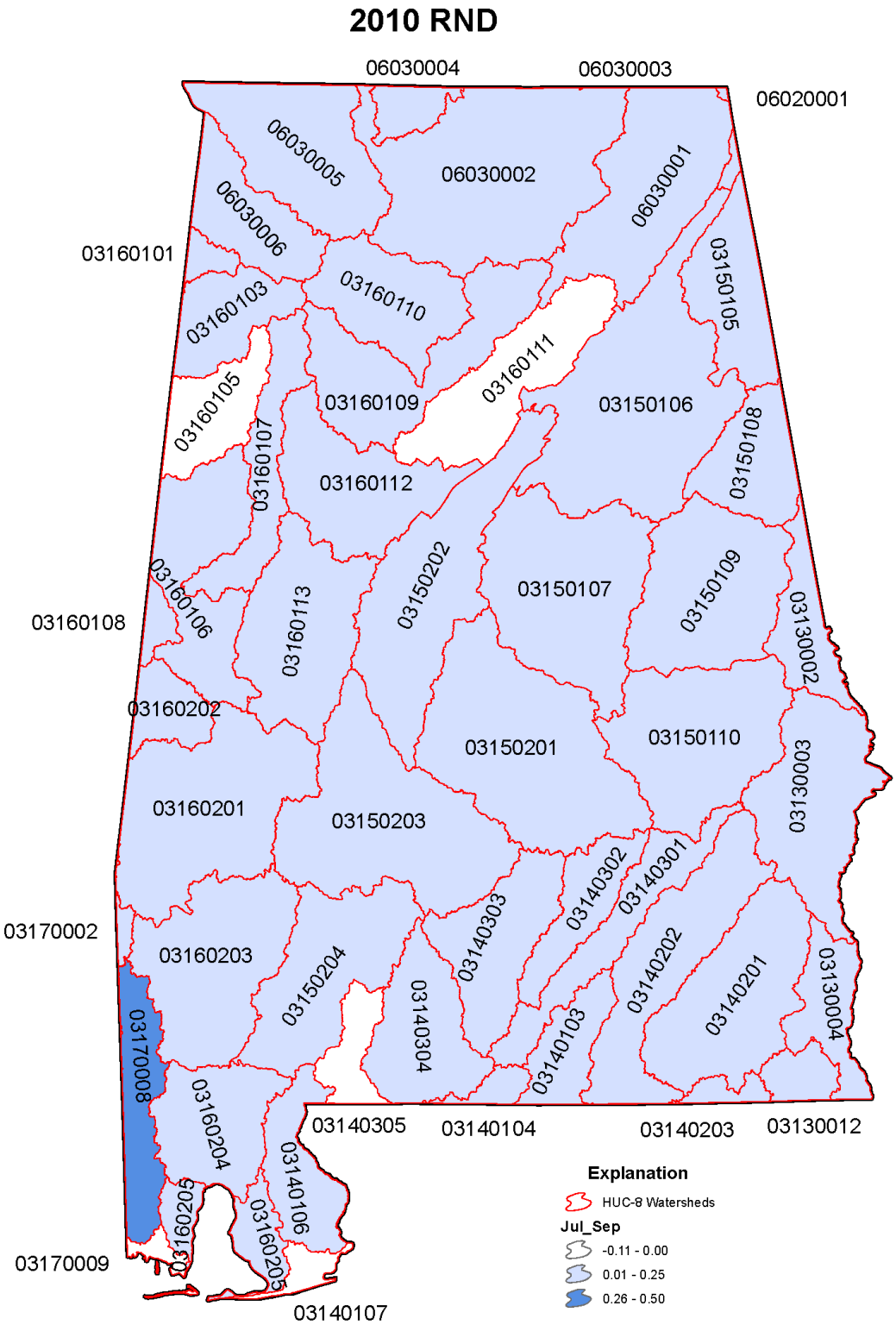

Figure K-16. Map of October - December seasonal 2010 Relative Net Demand (RND) ratios by subbasin.

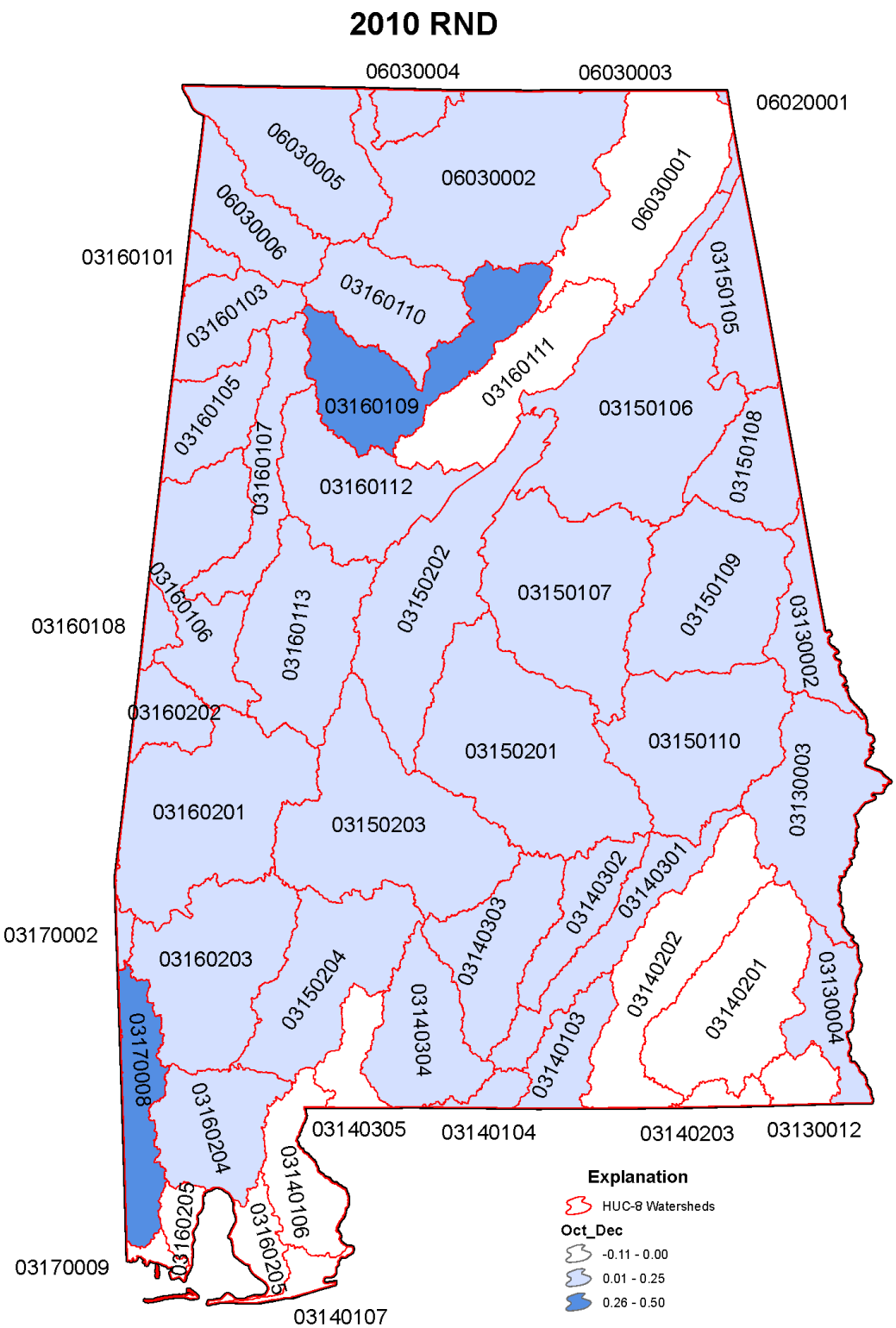

Figure K-17. Map of January 2015 Relative Net Demand (RND) ratios by subbasin.

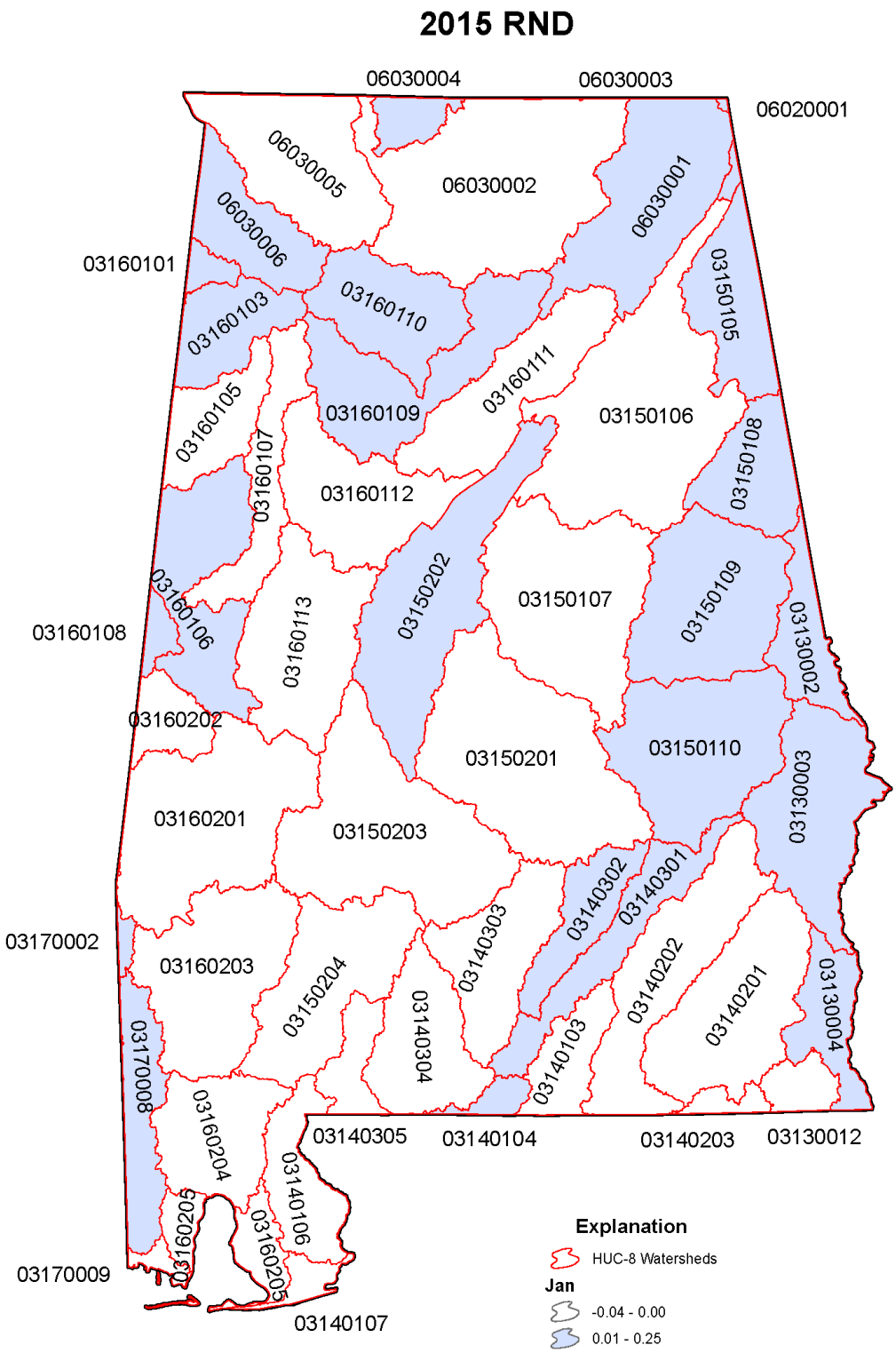

Figure K-18. Map of February 2015 Relative Net Demand (RND) ratios by subbasin.

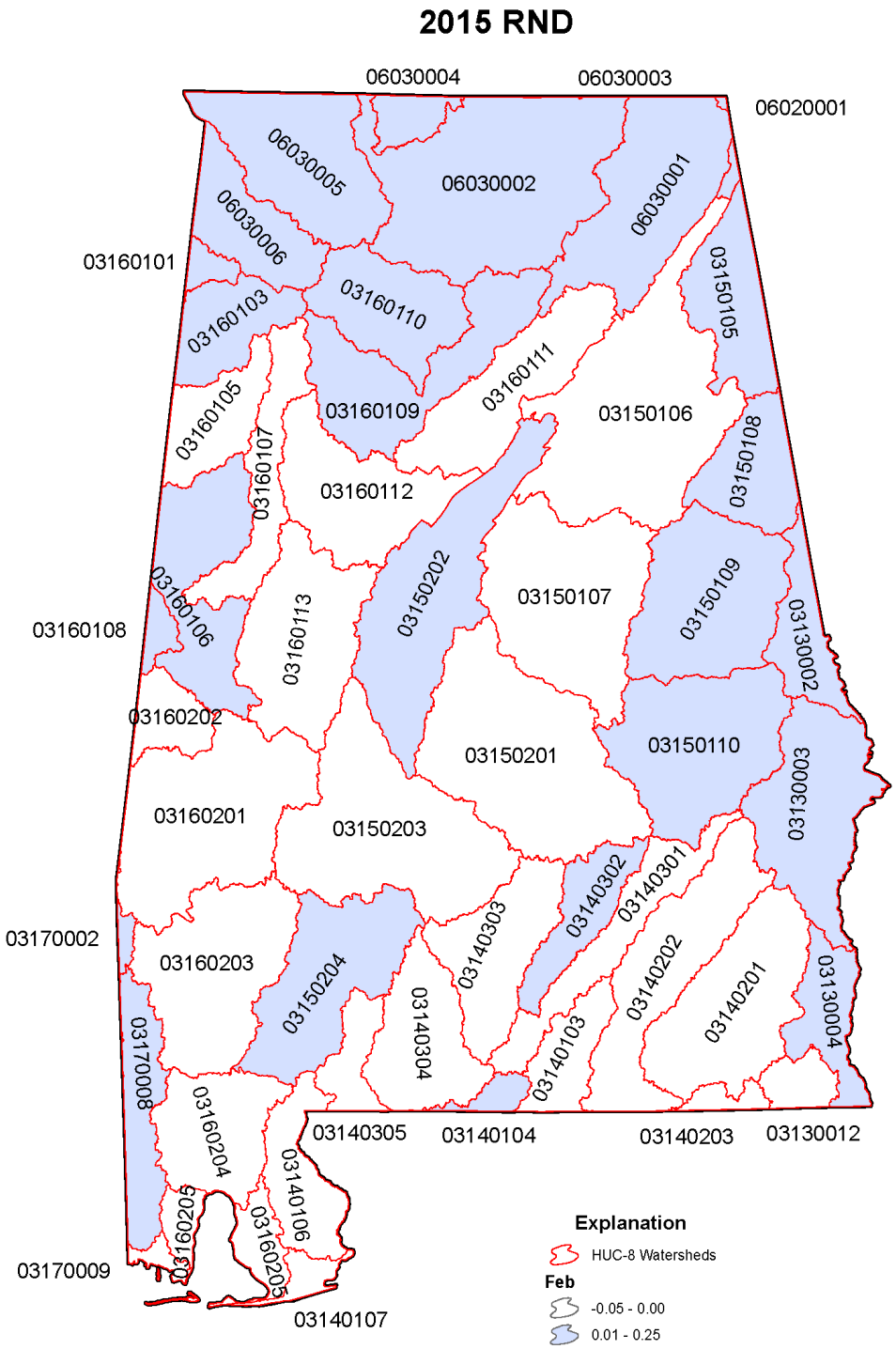

Figure K-19. Map of March 2015 Relative Net Demand (RND) ratios by subbasin.

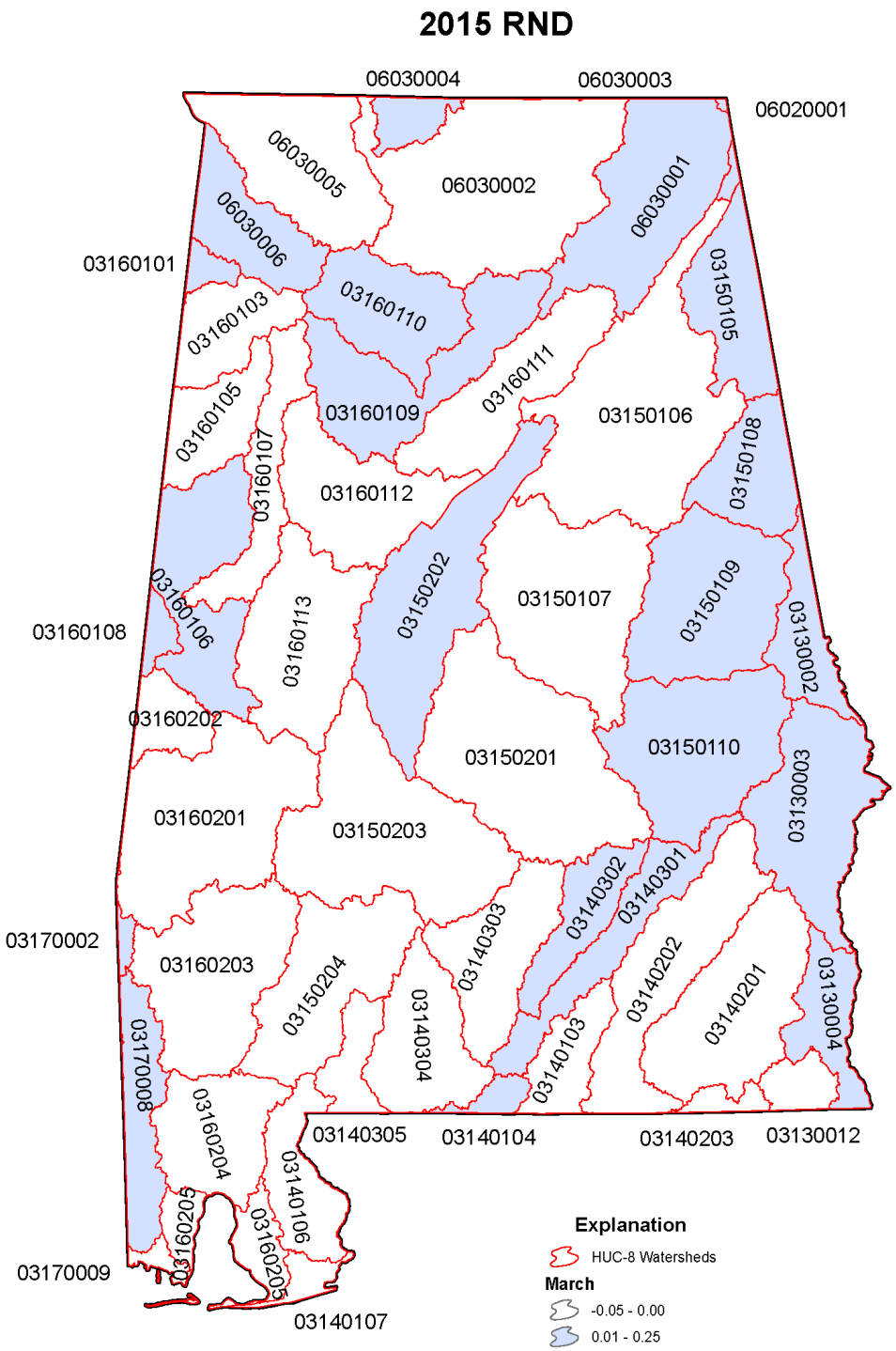

Figure K-20. Map of April 2015 Relative Net Demand (RND) ratios by subbasin.

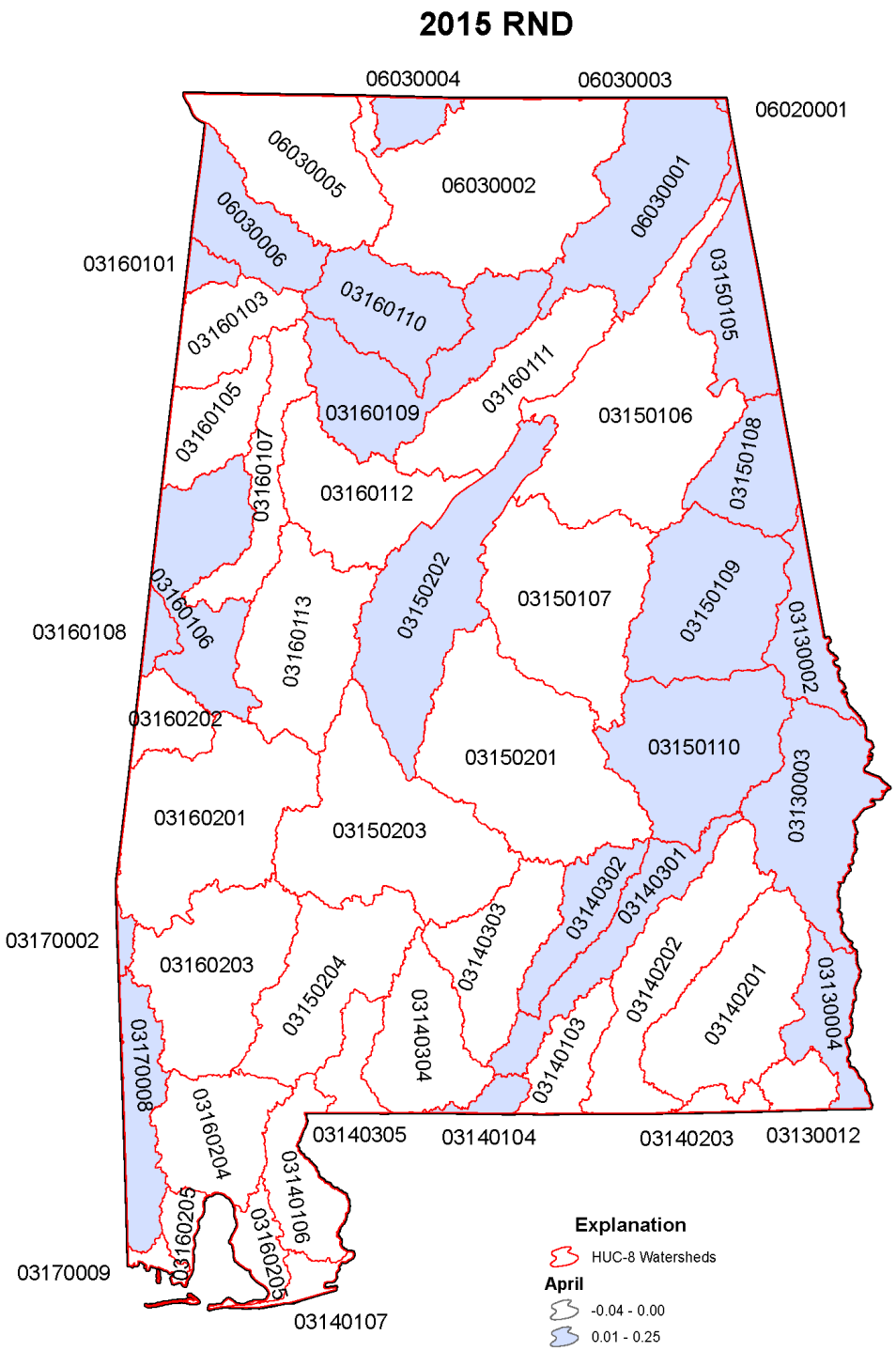

Figure K-21. Map of May 2015 Relative Net Demand (RND) ratios by subbasin.

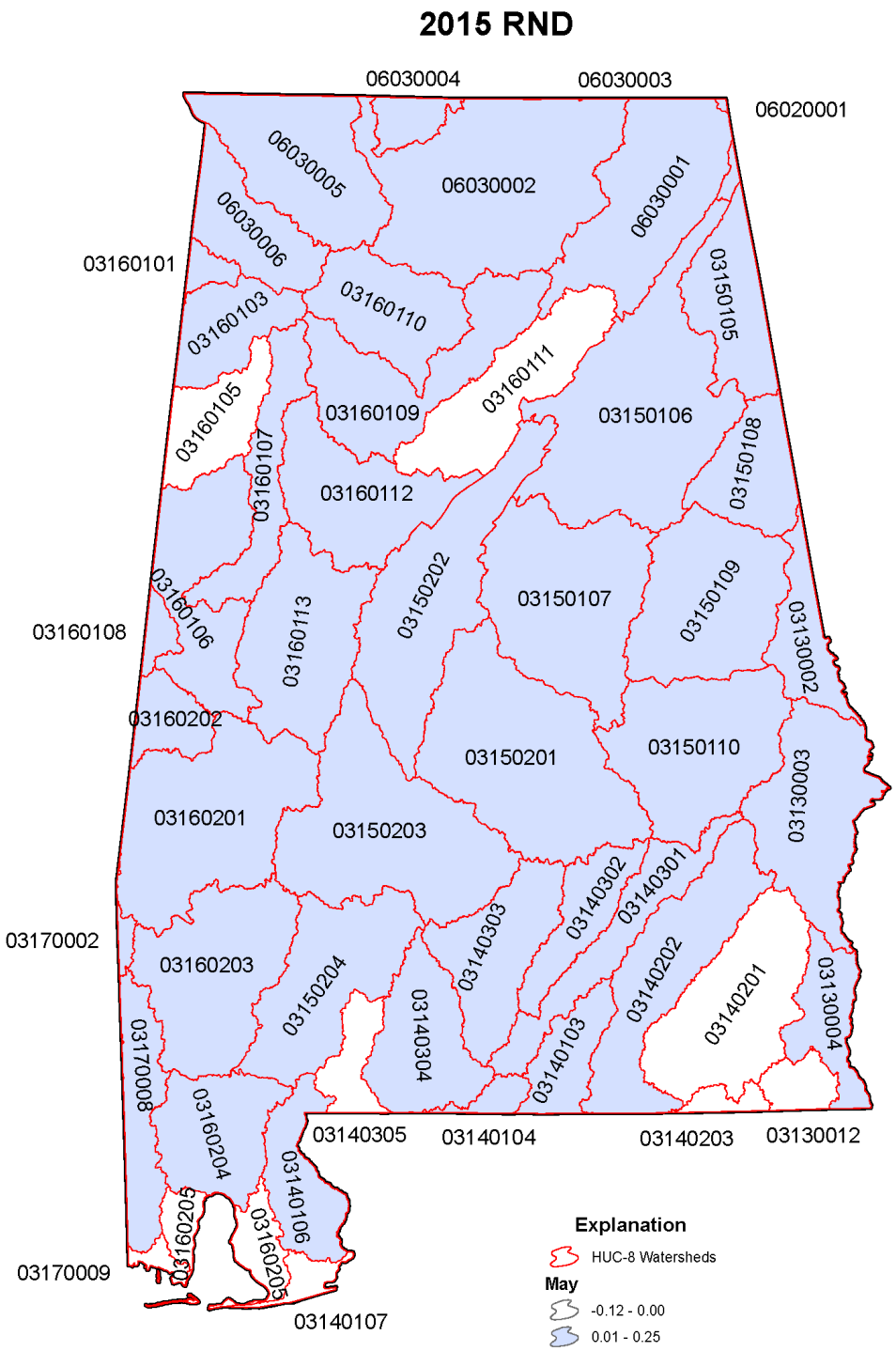

Figure K-22. Map of June 2015 Relative Net Demand (RND) ratios by subbasin.

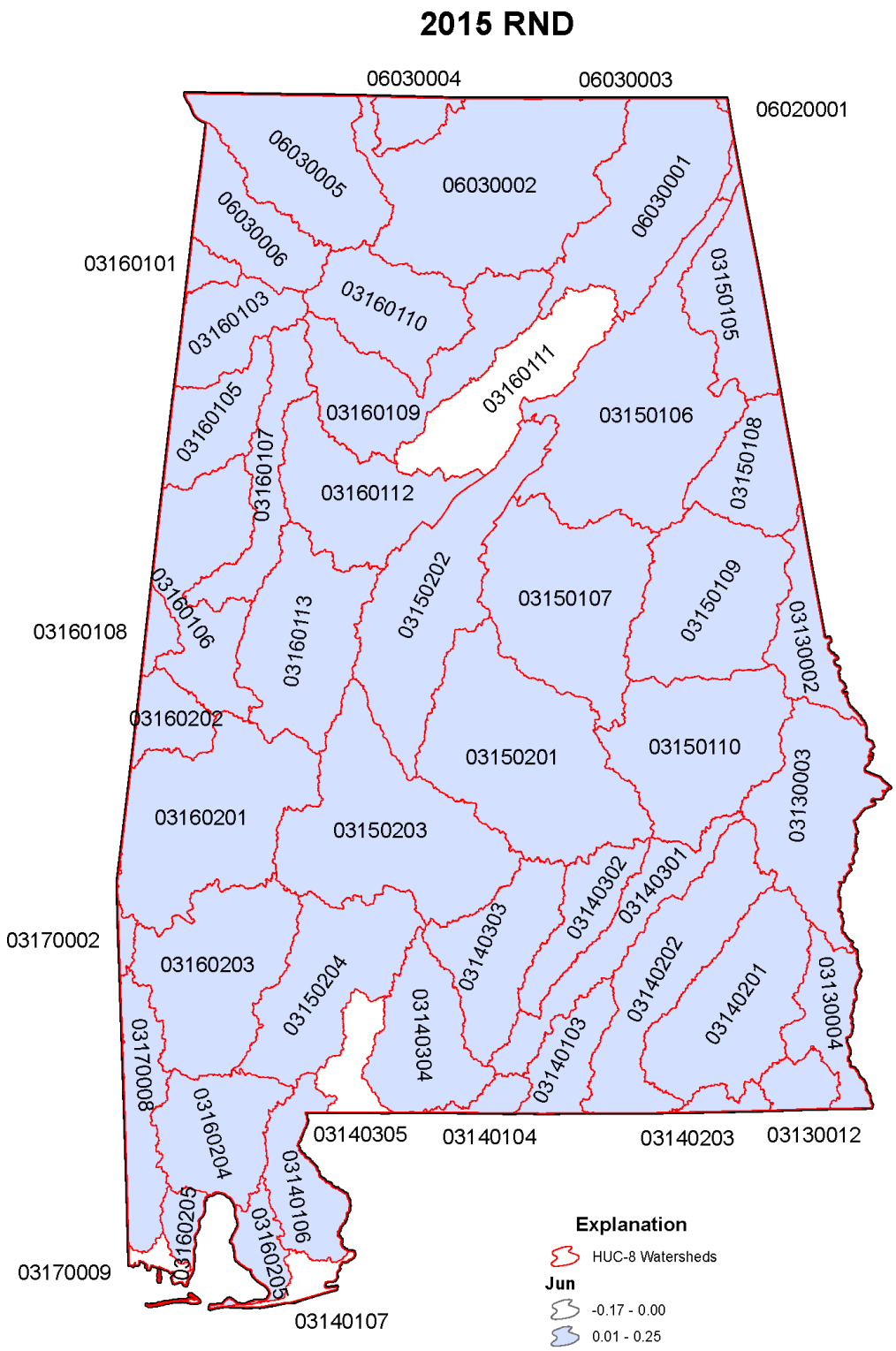

Figure K-23. Map of July 2015 Relative Net Demand (RND) ratios by subbasin.

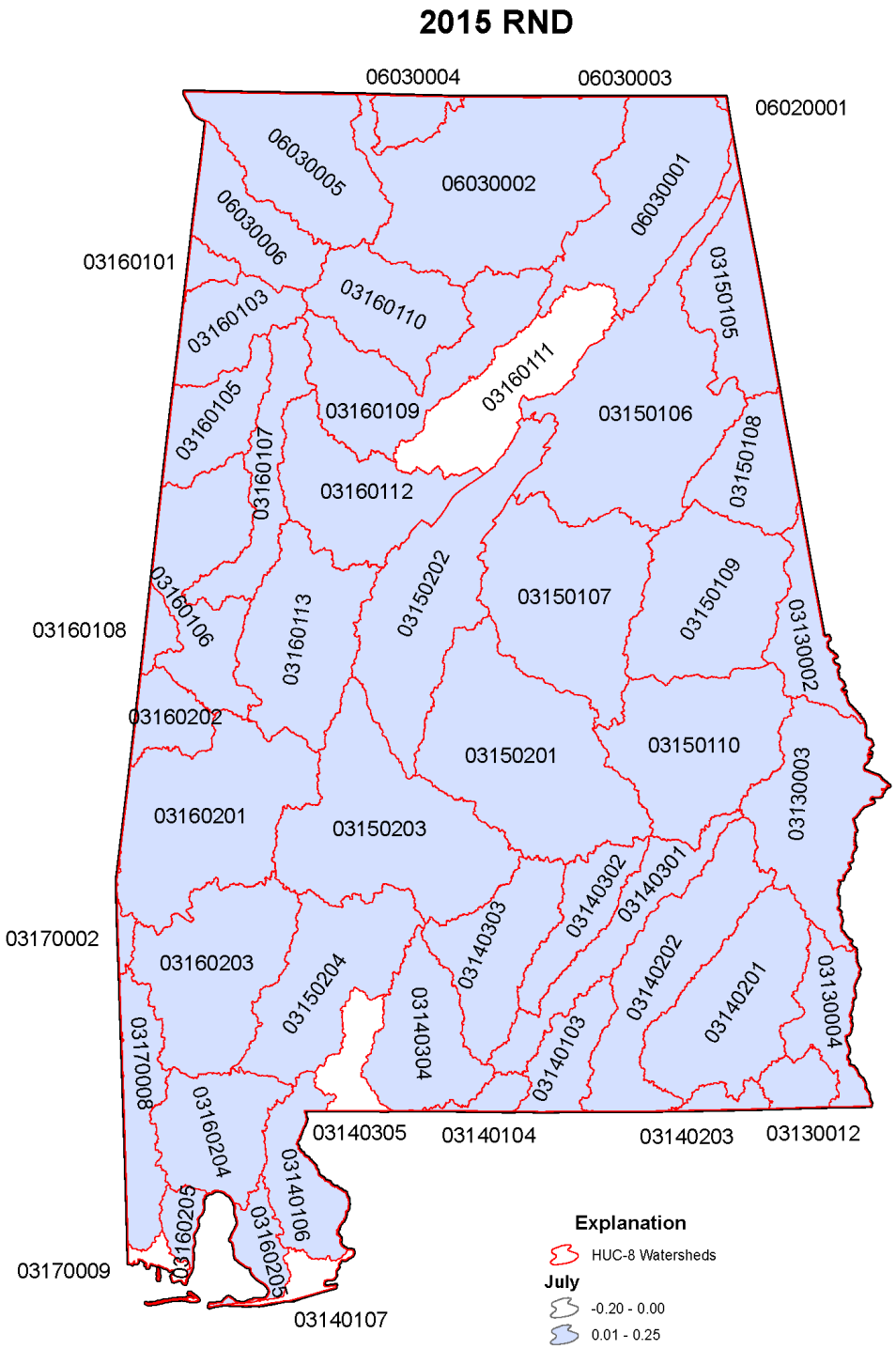

Figure K-24. Map of August 2015 Relative Net Demand (RND) ratios by subbasin.

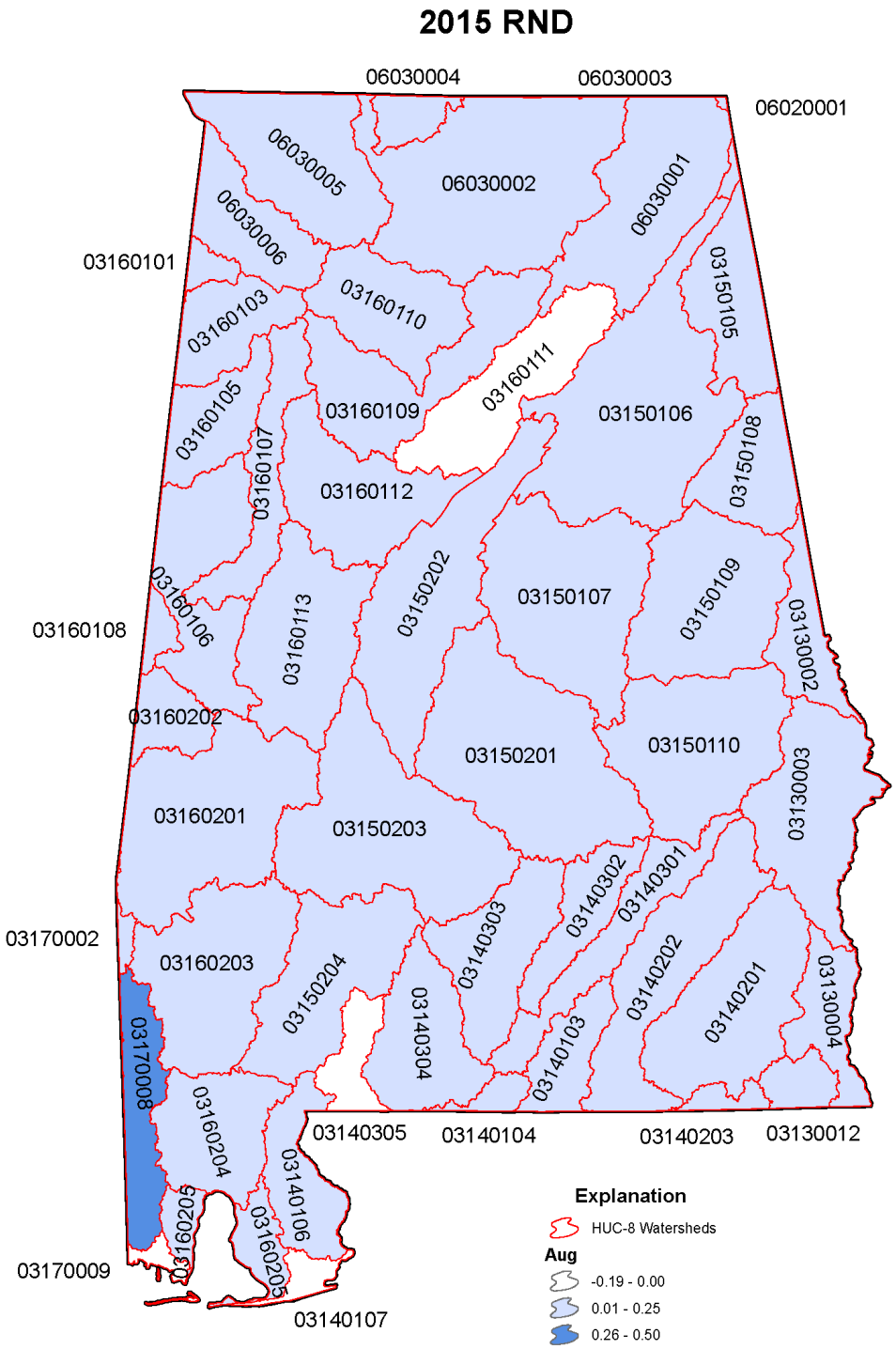

Figure K-25. Map of September 2015 Relative Net Demand (RND) ratios by subbasin.

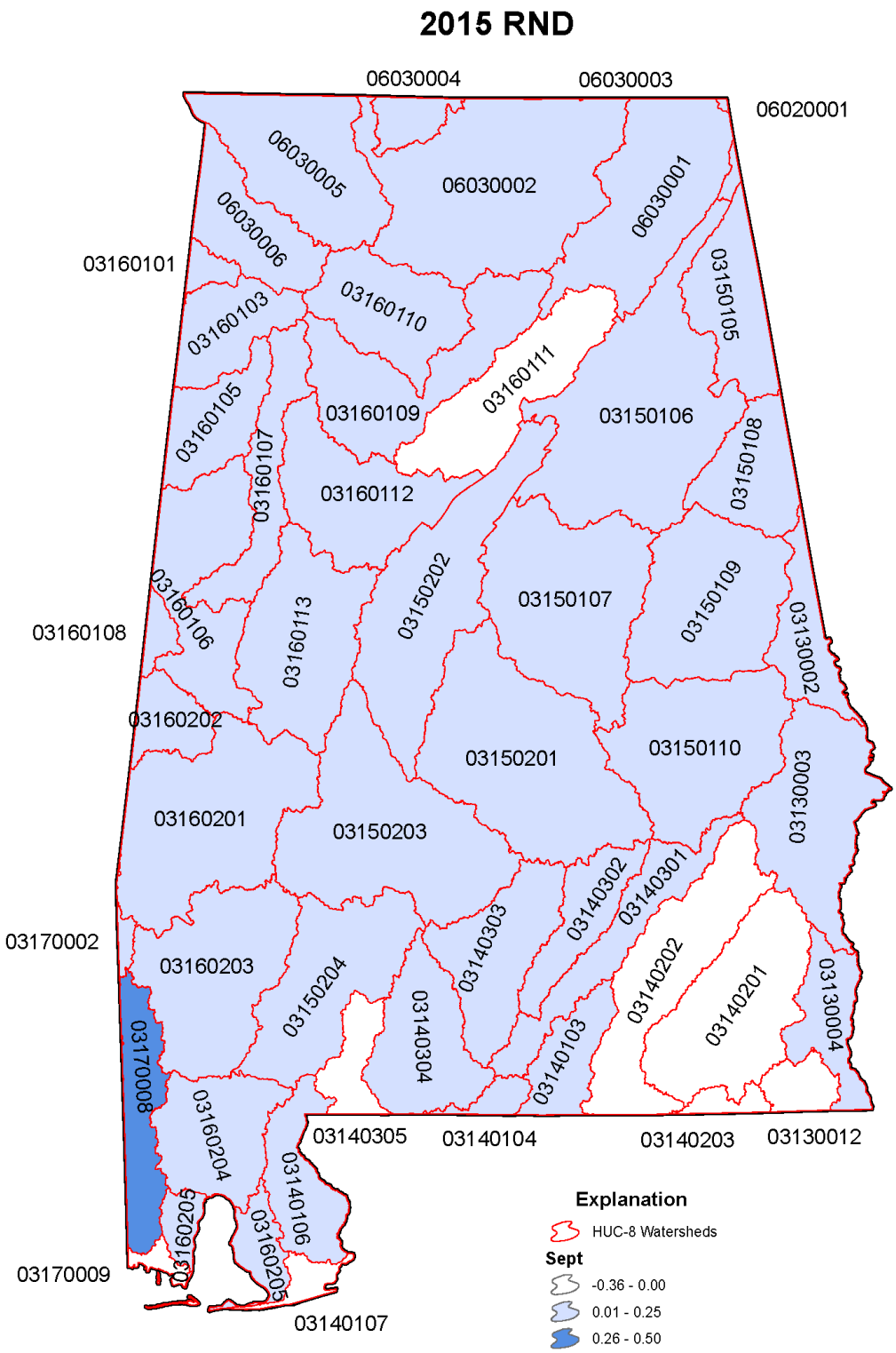

Figure K-26. Map of October 2015 Relative Net Demand (RND) ratios by subbasin.

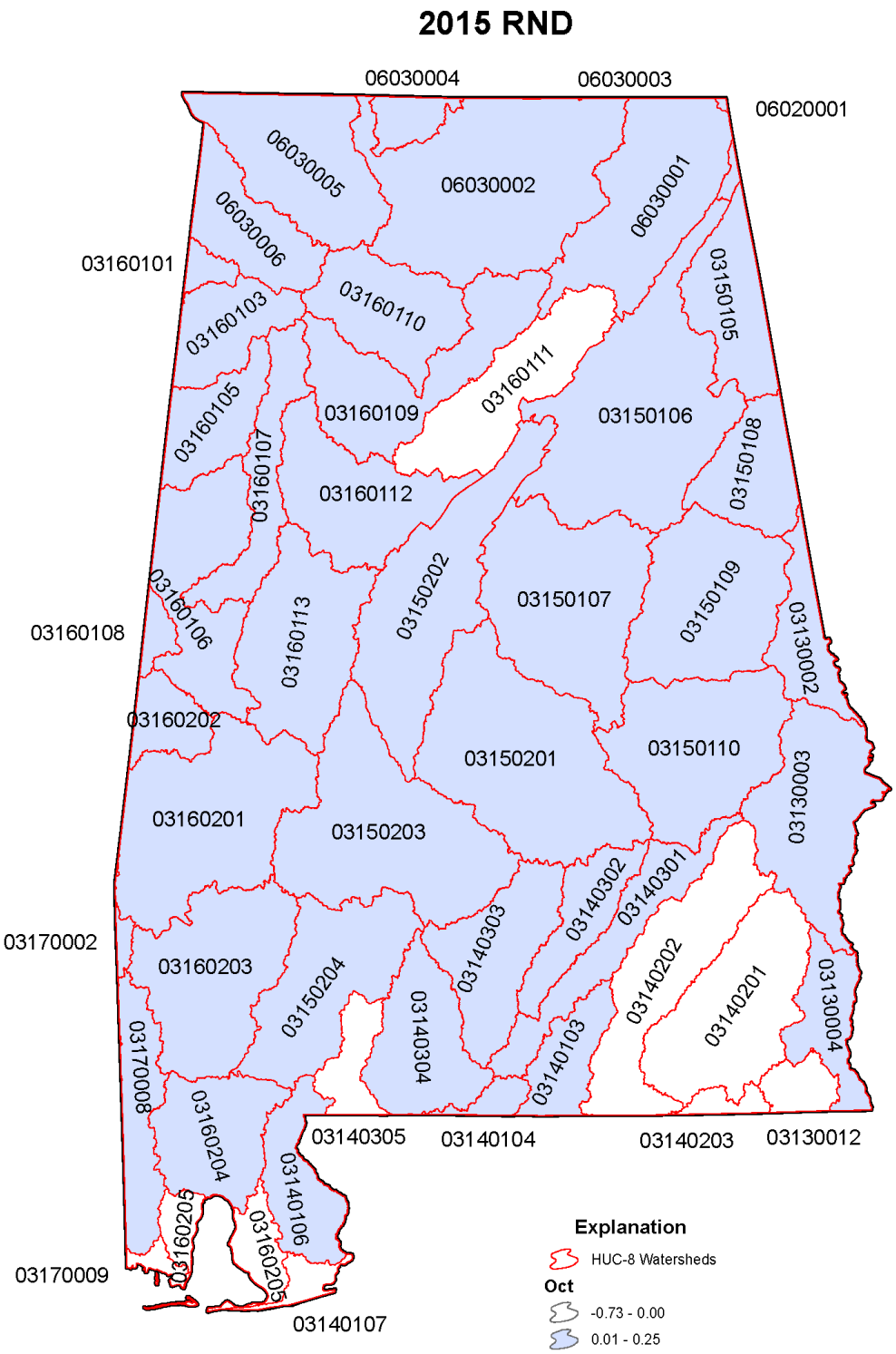

Figure K-27. Map of November 2015 Relative Net Demand (RND) ratios by subbasin.

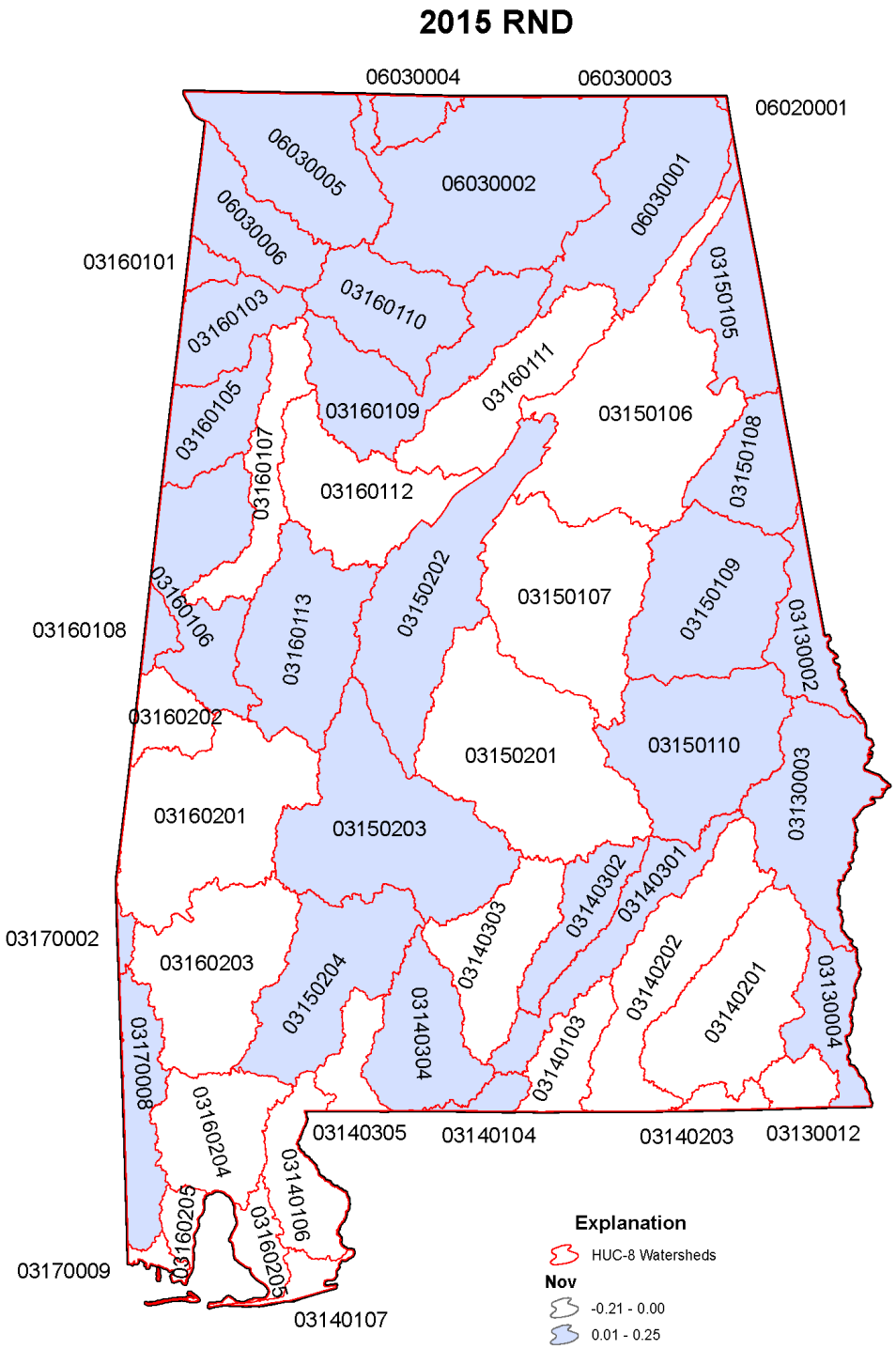

Figure K-28. Map of December 2015 Relative Net Demand (RND) ratios by subbasin.

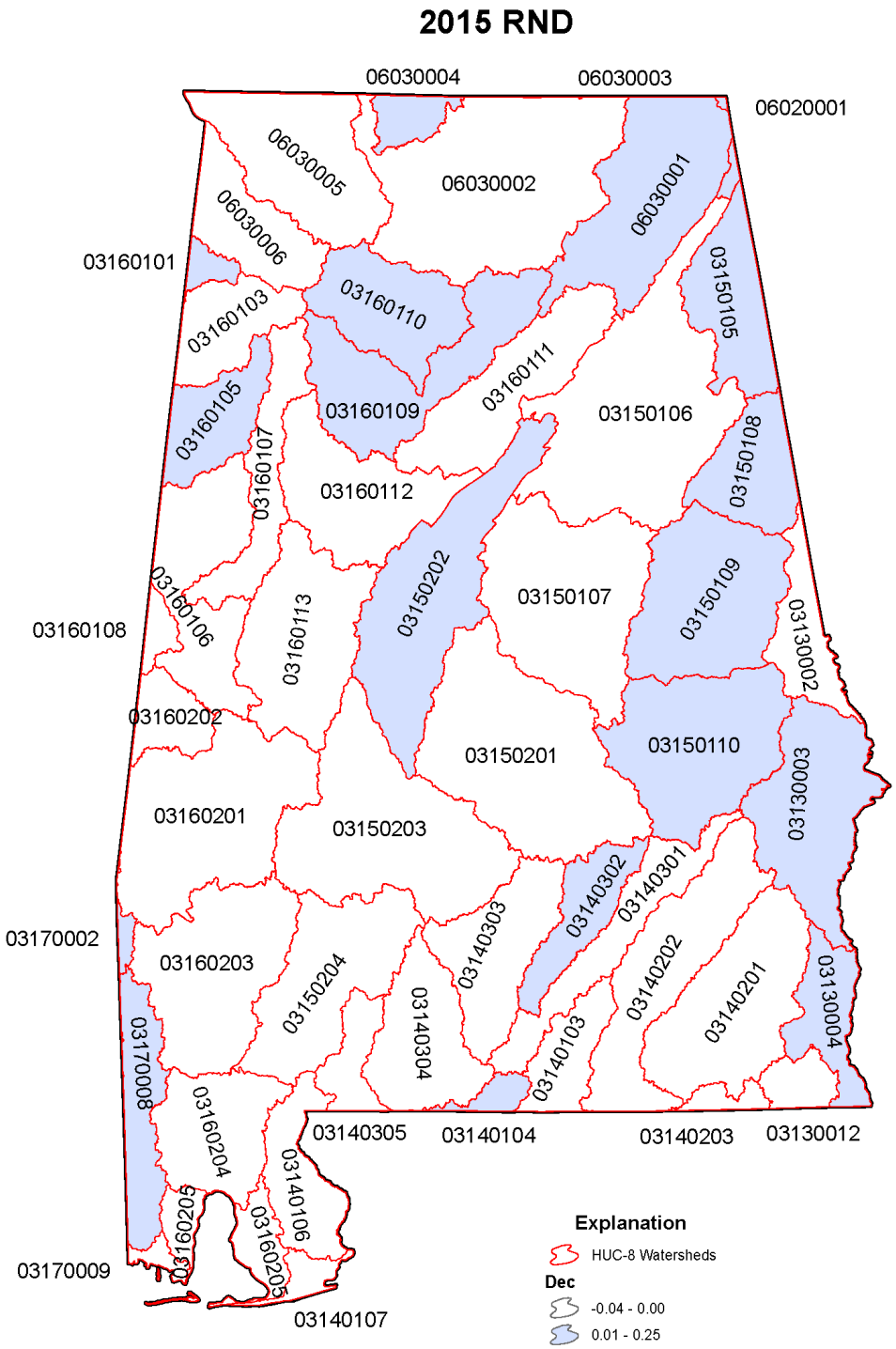

Figure K-29. Map of January – March seasonal 2015 Relative Net Demand (RND) ratios by subbasin.

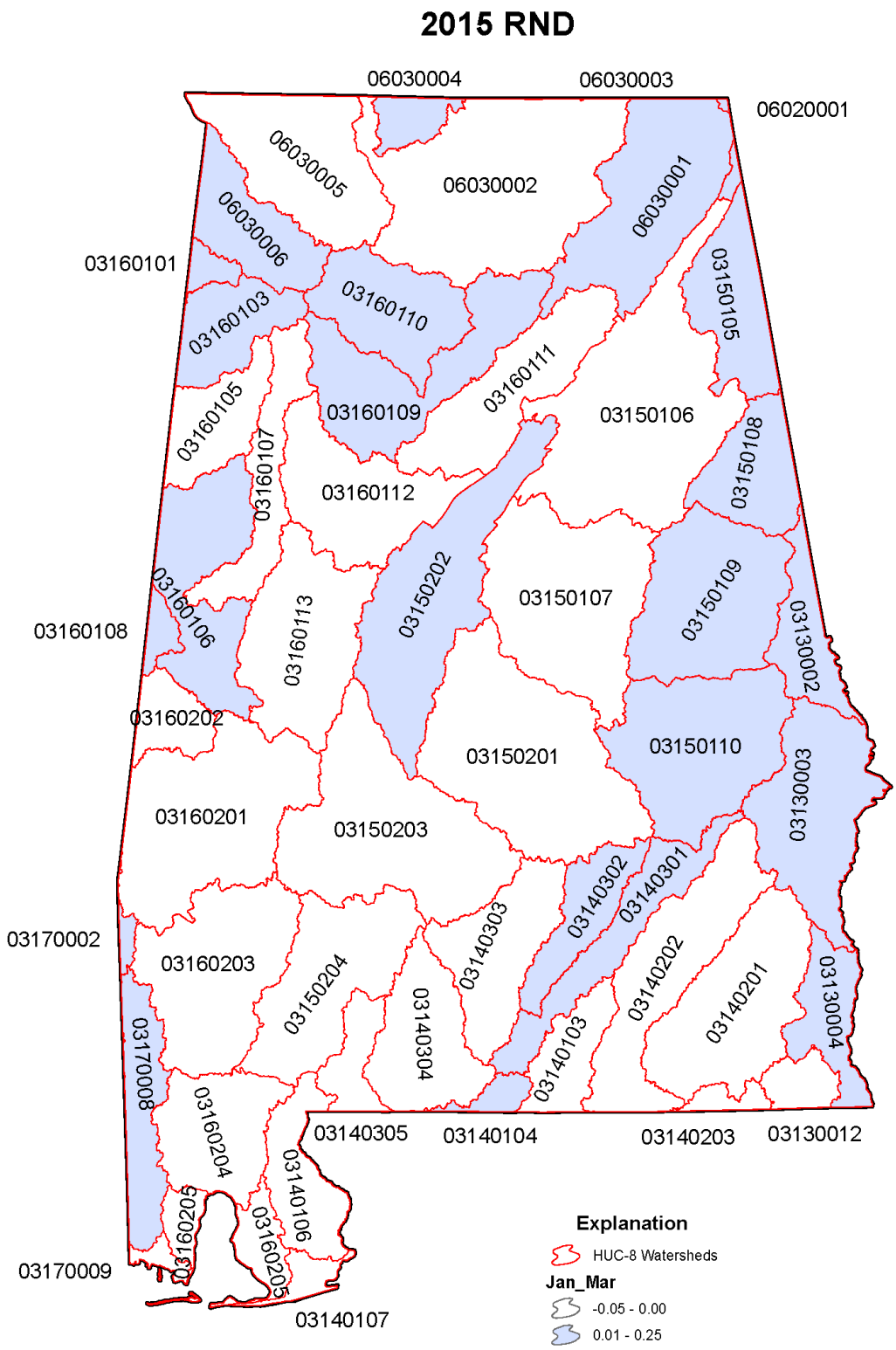

Figure K-30. Map of April - June seasonal 2015 Relative Net Demand (RND) ratios by subbasin.

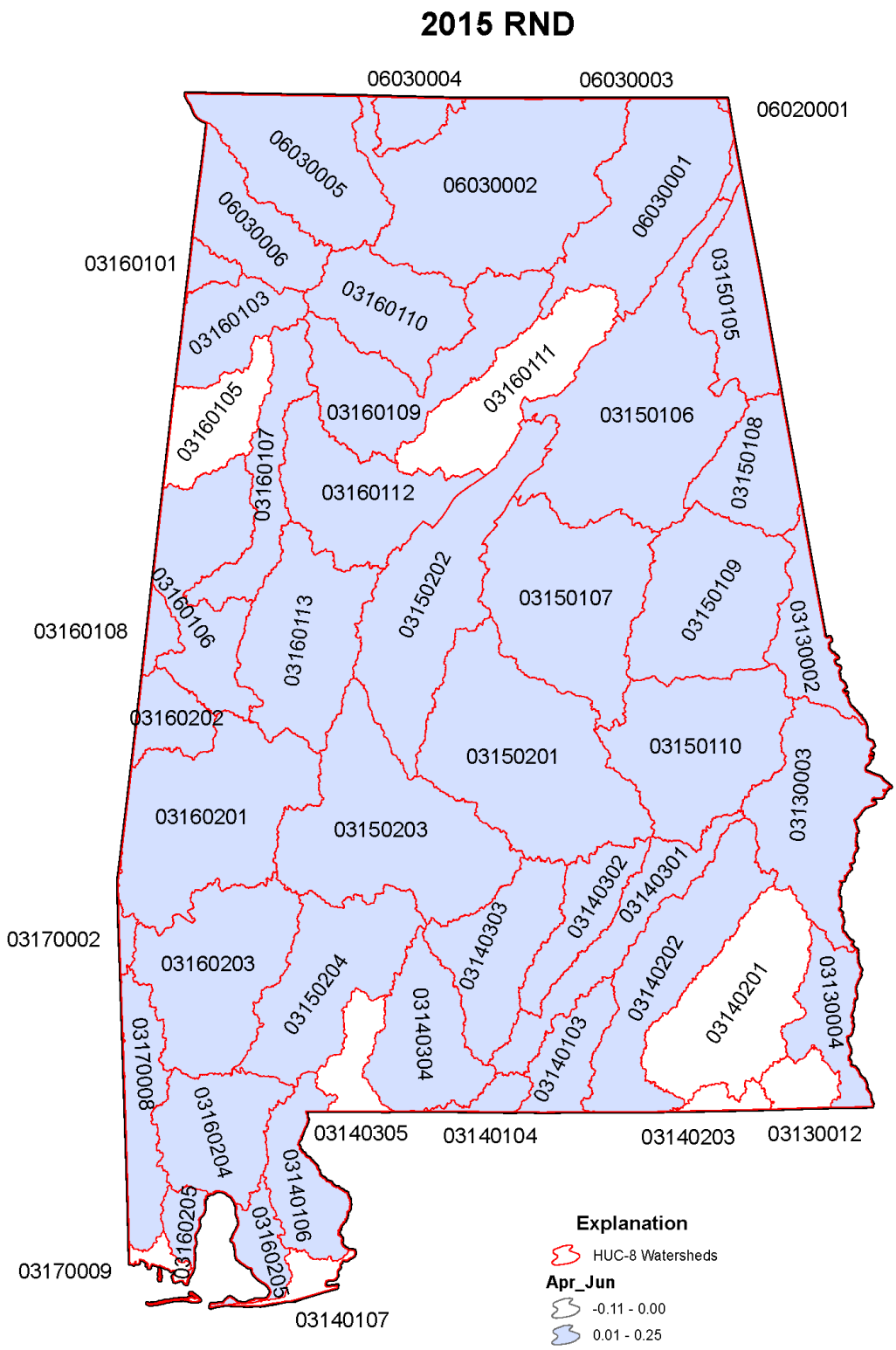

Figure K-31. Map of July - September seasonal 2015 Relative Net Demand (RND) ratios by subbasin.

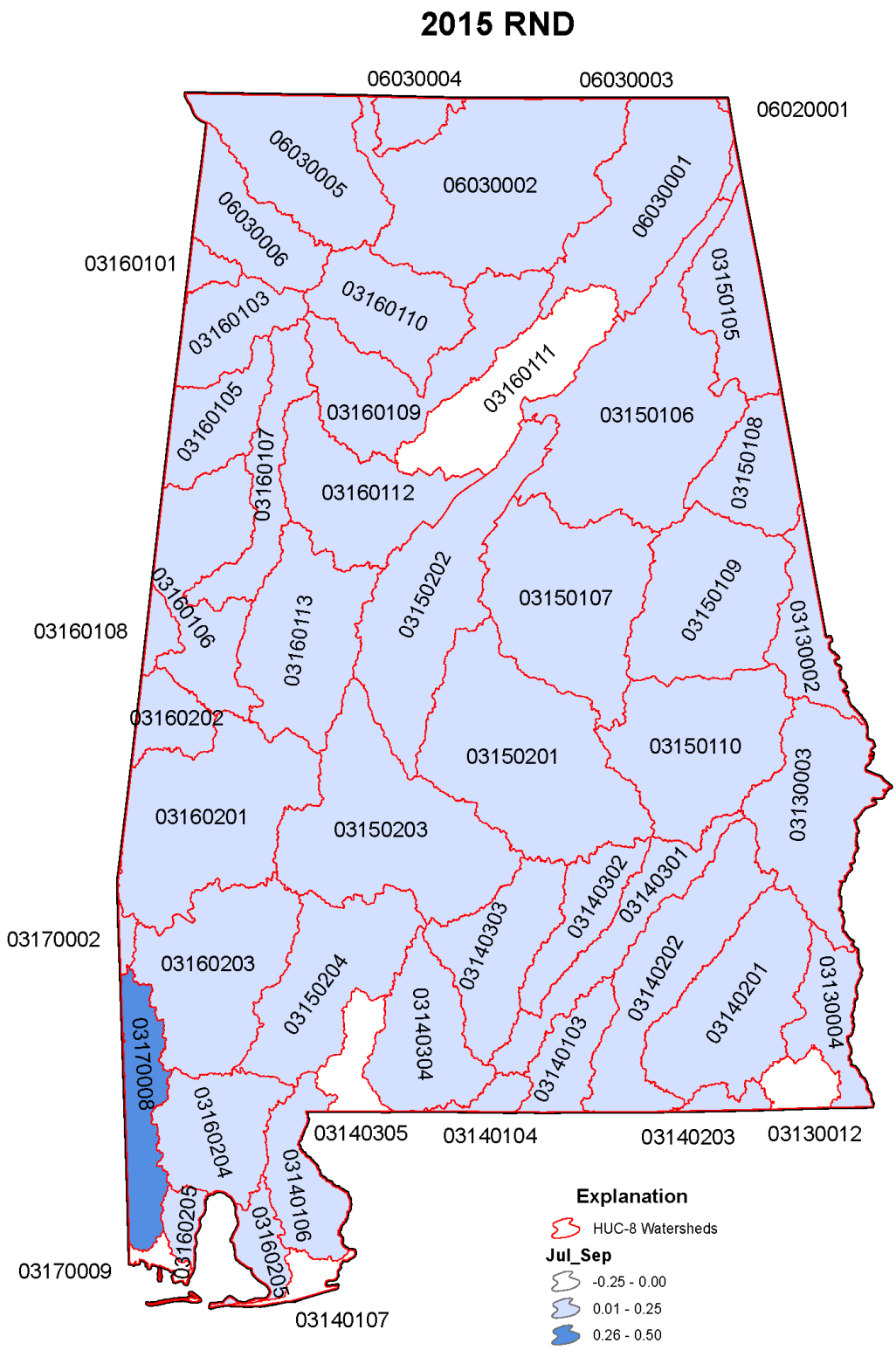
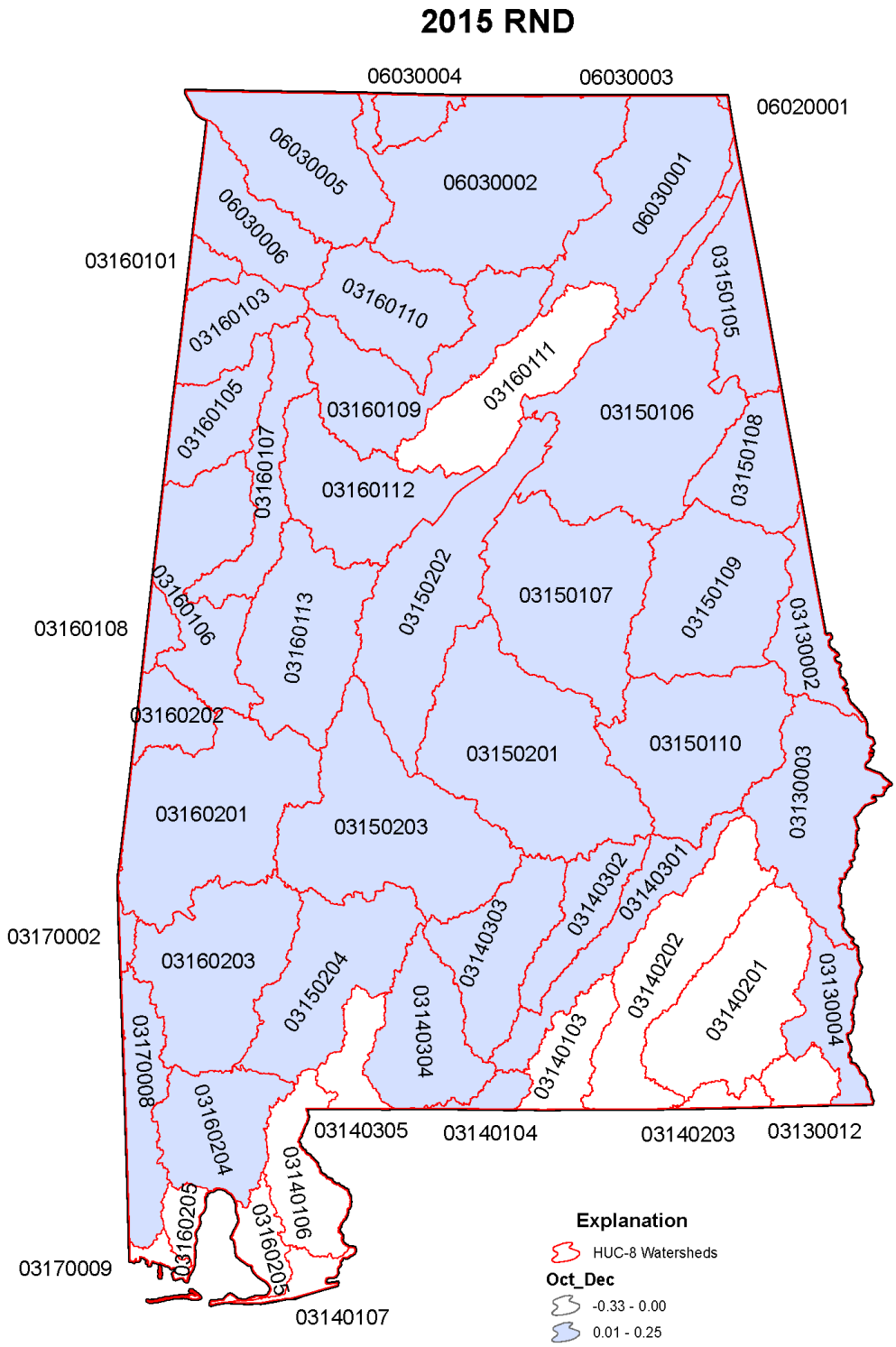
Figure K-32. Map of October - December seasonal Map of January 2015 Relative Net Demand (RND) ratios by subbasin.