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Water Use in Alabama, 1995

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U.S. Geological Survey
Water–Resources Investigations Report 98-4154

U.S. Department of the Interior
U.S. Geological Survey

GLOSSARY

Agricultural water use. Includes water used for irrigation and nonirrigation purposes. Irrigation water use is the application of water on lands to assist in the growing of crops and pasture, or to maintain vegetative growth in recreational lands, parks, and golf courses. Nonirrigation agricultural water use is water used for livestock, which includes water for feedlots, dairy operations, fish farms, and other farm uses.

Commercial water use. Water use for motels, hotels, restaurants, office buildings, commercial facilities, and civilian and military institutions. The water may be obtained from a public supply or may be self supplied.

Consumptive use. The part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise removed from the immediate water environment. Also referred to as water consumed or water depleted. Additionally, any water withdrawn in a basin and transferred out of the basin for use is considered 100 percent consumptively used.

Domestic wastewater facility. Refers to those facilities that receive or dispose of wastewater derived principally from residential dwellings, business or commercial buildings, and institutions; sanitary wastewater; sewage. Also referred to as municipal wastewater.

Domestic water use. Water for household purposes, such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns and gardens. Also referred to as residential water use. The water may be obtained from a public supply or it may be self supplied.

Freshwater. Water that contains less than 1,000 milligrams per liter (mg/L) of dissolved solids; water containing more than 500 mg/L dissolved solids is usually considered undesirable for drinking and many industrial uses. Generally, freshwater is considered potable.

Gigawatthour (GWh). A measure of electricity, one billion watthours.

Ground water. Subsurface water in the saturated zone (a zone in which all voids are filled with water); water obtained from wells.

Hydroelectric-power water use. Water use in the generation of electricity at plants where the turbine generators are driven by falling water. Hydroelectric-power water use is an instream use of water and generally is considered nonconsumptive.

Industrial water use. Water used for industrial purposes such as fabricating, processing, washing, and cooling; and includes water used for such industries as steel, chemical and allied products, paper and allied products, mining, and petroleum refining. The water may be obtained from a public supply or it may be self supplied.

Instream use. Water use taking place within the stream channel for such purposes as hydroelectric-power generation, navigation, water-quality improvement, fish and wildlife propagation, and recreation, Sometimes called nonwithdrawal use or in-channel use.

Million gallons per day (Mgal/d). A rate of flow of water.

Municipal wastewater facility. *See* Domestic wastewater facility.

Offstream use. Water withdrawn or diverted from a ground- or surface-water source for public water supply, industry, irrigation, livestock, thermoelectric-power generation, and other uses. Sometimes called off-channel use or withdrawal use.

Per capita use. The average amount of water used per person during a standard time period, generally per day. Public supply per capita use refers to the amount of water used for public supply divided by the population served.

Public supply. Water withdrawn by public and private water suppliers and delivered to users. Public suppliers provide water for a variety of uses, such as domestic, commercial, industrial, thermoelectric power (domestic and cooling purposes), and public water use. *See also* domestic water use, commercial water use, industrial water use, and public water use.

Public water use. Water supplied from a public supply and used for such purposes as firefighting, street washing, municipal parks, and swimming pools. Public water use also includes system water losses (water lost to leakage). Also referred to as water utility use.

(Continued on inside back cover)

Water Use in Alabama, 1995

By WILL S. MOOTY and JOANNE R. RICHARDSON

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 98–4154

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U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

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Water Use in Alabama, 1995

By Will S. Mooty and Joanne R. Richardson

ABSTRACT

During 1995, the amount of water withdrawn from ground- and surface-water sources in Alabama was estimated to be about 7,100 million gallons per day. Of this amount, about 6,650 million gallons per day were from surface-water sources and about 445 million gallons per day were from ground-water sources.

Total withdrawals in Alabama in 1995 for nine withdrawal categories were as follows: thermoelectric-power generation, 5,200 million gallons per day; public supply, 812 million gallons per day; self-supplied industrial, 733 million gallons per day; irrigation, 139 million gallons per day; aquaculture, 93.9 million gallons per day; self-supplied domestic, 61.9 million gallons per day; livestock, 34.9 million gallons per day; mining, 20.0 million gallons per day; and self-supplied commercial, 4.88 million gallons per day.

Total withdrawals in Alabama decreased about 12 percent from 1990 to 1995, despite an increase of about 5 percent in the State's total population during the same period. Total withdrawals have increased about 135 percent since 1955; however, because of greater than normal usage for generation of thermoelectric power in 1975, withdrawals peaked in that year.

INTRODUCTION

Alabama has historically been a water-rich State. Extensive river systems and aquifers provide a seemingly unlimited supply of clean, fresh water for all needs in most areas of the State.

However, population growth in Alabama and the accompanying increase in demand for water have made the public aware that water resources are limited. Resource managers in all levels of government are acutely aware of the need for long-range planning for water demands. Such planning requires timely, accurate data on the amount of water used for a variety of categories in the State as well as long-term data that can be used to identify water-use trends.

In 1978, the U.S. Geological Survey (USGS) initiated the National Water-Use Information Program to establish a nationwide water-use data base. In 1993, the Alabama Department of Economic and Community Affairs, Office of Water Resources (OWR), began a water-use data-collection effort for the State of Alabama. The USGS joined forces with the OWR in 1996 to institute a program that provides for the collection, storage, and dissemination of accurate water-use information for Alabama within a consistent National framework.

Purpose and Scope

Every 5 years since 1950, the USGS has conducted an inventory of water use in the United States (MacKichan, 1951, 1957; MacKichan and Kammerer, 1961; Murray, 1968; Murray and Reeves, 1972, 1977; Solley and others, 1983, 1988, 1993). To compile water-use data for 1995 in Alabama, the USGS worked in cooperation with the OWR. The Alabama data have been aggregated with data for the rest of the United States and are included in a report on water use in the Nation (Solley and others, 1998).

This report describes total withdrawals from surface- and ground-water sources in Alabama in 1995. With a few exceptions, it will coincide with the National report. The National report compiles total

withdrawals for States and hydrologic subregions; whereas, this report compiles withdrawals by county (fig. 1) and hydrologic cataloging units (fig. 2).

Twelve categories of water use are described in this report: public supply, domestic, commercial, industrial, mining, livestock, animal specialties (aquaculture), irrigation, thermoelectric-power generation, hydroelectric-power generation, wastewater treatment, and reservoir evaporation. Of these 12 categories, only 9 are considered withdrawal categories. Hydroelectric-power generation, reservoir evaporation, and wastewater treatment are instream uses, natural losses, and return flows, respectively. Also included in this report are historical data on water use in Alabama.

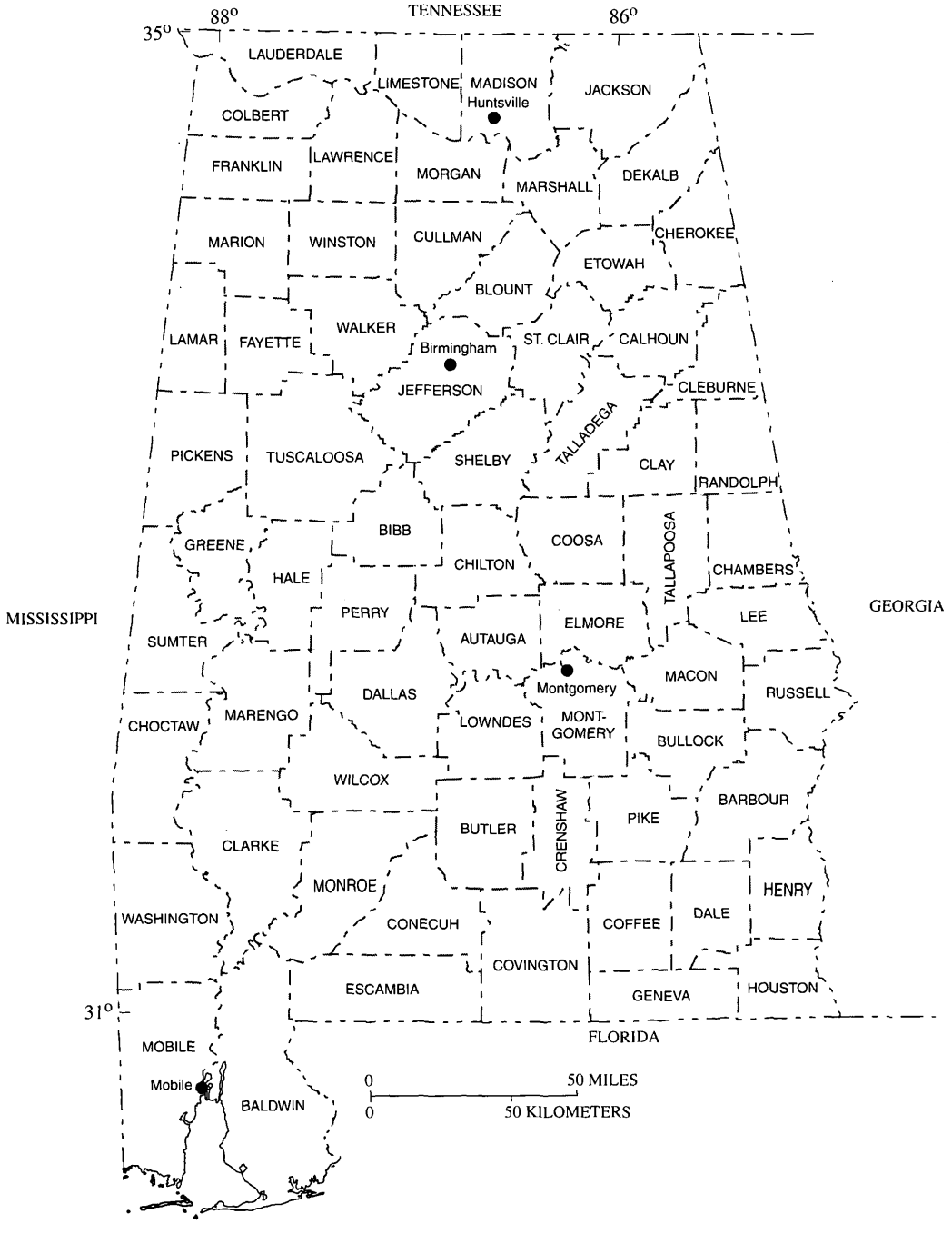

Figure 1. Alabama counties.

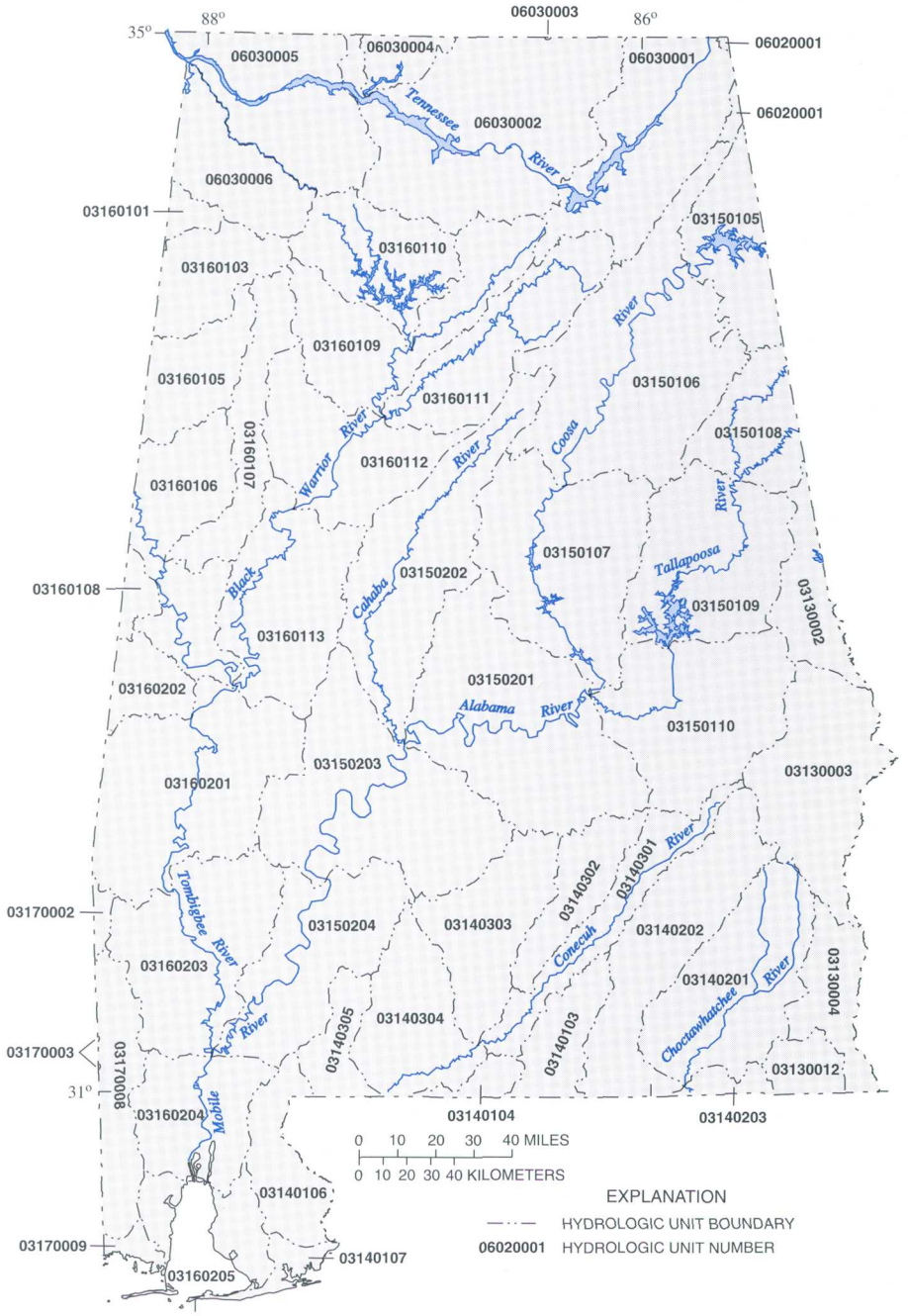

Figure 2. Major rivers and hydrologic cataloging units in Alabama.

Data-Collection Techniques

Beginning in 1993, the OWR required all public water suppliers and all other users of more than 100,000 gal/d, or 0.1 Mgal/d, of water to file a report of annual withdrawals of water. Irrigators with a combined capacity of more than 100,000 gal/d for their irrigation wells also were required to report their withdrawals. These new water-use reporting requirements provided an improved source of data and formed the basis of this water-use compilation for Alabama. Past compilations of water use relied on questionnaires mailed out to water users; the response rate was usually about 50–60 percent. The low response made it necessary to estimate some of the water-use data for the State. Withdrawal values in this report represent the most accurate compilation to date, having incorporated data proceeding from the new

State water-use reporting requirements implemented in 1993. The various techniques used to estimate each category of water use for Alabama for 1995 are described in detail in the section of this report pertaining to each category of water use.

TOTAL WITHDRAWALS BY CATEGORY

During 1995, total withdrawals from ground- and surface-water sources in Alabama were about 7,100 Mgal/d (table 1). This was a decrease of about 12 percent from the 1990 total of 8,080 Mgal/d (Solley and others, 1993), even though the population increased approximately 5 percent from 4.05 million in 1990 to 4.25 million in 1995 (Solley and others, 1998) (fig. 3). Of the total water withdrawn in 1995, about 94 percent (6,650 Mgal/d) was from surface water, and the remaining 6 percent (445 Mgal/d) was from ground water. Figure 3 shows trends in total water use and population in Alabama since 1955.

Total withdrawals have increased about 135 percent since 1955; however, because of greater than normal usage for generation of thermoelectric power in 1975, withdrawals peaked in that year (fig. 4). Ground-water withdrawals increased from 403 Mgal/d in 1990 to 445 Mgal/d in 1995. This increase of about 10 percent is primarily attributable to increased public-supply withdrawals. Surface-water withdrawals decreased from 7,680 Mgal/d in 1990 to 6,650 Mgal/d in 1995. This decrease of about 13 percent is primarily attributable to decreased withdrawals for thermoelectric-power generation. The largest aggregate water withdrawals in 1995 (fig. 1; table 1) were in Jackson County (1,300 Mgal/d), where the largest withdrawals were for thermoelectric-power generation, and in Mobile County (1,110 Mgal/d),

Table 1. Total water withdrawals and per capita use of freshwater, by county, in Alabama, 1995

[Mgal/d, million gallons per day; gal/d, gallons per day; **, more than 10,000 gal/d]

County	Population, in thousands	Water withdrawals, in Mgal/d									Per capita use, freshwater, in gal/d
		Source and type						Total			
		Ground water			Surface water						
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	
Autauga	39.38	7.59	0	7.59	32.67	0	32.67	40.26	0	40.26	1,022.35
Baldwin	120.20	37.01	.24	37.25	4.89	0	4.89	41.90	.24	42.14	348.59
Barbour	26.47	6.66	0	6.66	8.37	0	8.37	15.03	0	15.03	567.81
Bibb	17.94	2.49	.01	2.50	.82	0	.82	3.31	.01	3.32	184.50
Blount	42.72	3.63	0	3.63	47.66	0	47.66	51.29	0	51.29	1,200.61
Bullock	11.15	1.94	0	1.94	2.90	0	2.90	4.84	0	4.84	434.08
Butler	21.80	2.80	0	2.80	.93	0	.93	3.73	0	3.73	171.10
Calhoun	117.26	22.78	0	22.78	3.52	0	3.52	26.30	0	26.30	224.29
Chambers	37.26	.36	0	.36	12.20	0	12.20	12.56	0	12.56	337.09
Cherokee	21.04	.80	0	.80	5.63	0	5.63	6.43	0	6.43	305.61
Chilton	34.91	3.52	0	3.52	2.12	0	2.12	5.64	0	5.64	161.56
Choctaw	16.08	1.71	1.26	2.97	49.06	0	49.06	50.77	1.26	52.03	3,157.34
Clarke	27.99	1.43	.36	1.79	24.19	0	24.19	25.62	.36	25.98	915.33
Clay	13.55	.73	0	.73	1.92	0	1.92	2.65	0	2.65	195.57
Cleburne	13.27	1.76	0	1.76	.82	0	.82	2.58	0	2.58	194.42
Coffee	42.36	7.19	0	7.19	9.06	0	9.06	16.25	0	16.25	383.62
Colbert	52.59	5.06	0	5.06	86.00	0	86.00	91.06	0	91.06	1,731.51
Conecuh	14.02	2.02	.01	2.03	.18	0	.18	2.20	.01	2.21	156.92
Coosa	11.68	.27	0	.27	.66	0	.66	.93	0	.93	79.62
Covington	37.46	5.42	.01	5.43	6.94	0	6.94	12.36	.01	12.37	329.95
Crenshaw	13.62	2.11	0	2.11	.40	0	.40	2.51	0	2.51	184.29
Cullman	72.49	1.59	0	1.59	18.70	0	18.70	20.29	0	20.29	279.90
Dale	50.00	11.61	0	11.61	2.14	0	2.14	13.75	0	13.75	275.00
Dallas	48.02	10.98	0	10.98	46.18	0	46.18	57.16	0	57.16	1,190.34
DeKalb	57.27	3.59	0	3.59	6.25	0	6.25	9.84	0	9.84	171.82

Table 1. Total water withdrawals and per capita use of freshwater, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; gal/d, gallons per day; **, more than 10,000 gal/d]

County	Population, in thousands	Water withdrawals, in Mgal/d									Per capita use, freshwater, in gal/d
		Source and type						Total			
		Ground water			Surface water						
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	
Elmore	57.07	3.23	0	3.23	3.06	0	3.06	6.29	0	6.29	110.22
Escambia	36.54	9.45	2.19	11.64	37.59	0	37.59	47.04	2.19	49.23	1,287.36
Etowah	100.26	4.64	0	4.64	259.87	0	259.87	264.51	0	264.51	2,638.24
Fayette	18.02	.87	.01	.88	2.18	0	2.18	3.05	.01	3.06	169.26
Franklin	29.31	2.05	0	2.05	3.23	0	3.23	5.28	0	5.28	180.14
Geneva	24.73	2.81	0	2.81	1.09	0	1.09	3.90	0	3.90	157.70
Greene	10.08	1.89	0	1.89	318.50	0	318.50	320.39	0	320.39	**
Hale	16.21	5.96	.02	5.98	33.19	0	33.19	39.15	.02	39.17	2,415.18
Henry	15.75	2.92	0	2.92	6.56	0	6.56	9.48	0	9.48	601.90
Houston	84.37	30.97	0	30.97	89.07	0	89.07	120.04	0	120.04	1,422.78
Jackson	50.13	1.69	0	1.69	1,299.90	0	1,299.90	1,301.59	0	1,301.59	**
Jefferson	657.83	16.52	1.54	18.06	74.06	0	74.06	90.58	1.54	92.12	137.70
Lamar	15.75	3.55	.13	3.68	.65	0	.65	4.20	.13	4.33	266.67
Lauderdale	83.60	2.37	0	2.37	13.76	0	13.76	16.13	0	16.13	192.94
Lawrence	32.80	1.09	0	1.09	61.05	0	61.05	62.14	0	62.14	1,894.51
Lee	94.03	3.09	0	3.09	15.80	0	15.80	18.89	0	18.89	200.89
Limestone	59.34	5.74	0	5.74	786.52	0	786.52	792.26	0	792.26	**
Lowndes	12.95	1.68	0	1.68	6.85	0	6.85	8.53	0	8.53	658.69
Macon	23.96	1.01	0	1.01	5.78	0	5.78	6.79	0	6.79	283.39
Madison	258.34	29.00	0	29.00	25.01	0	25.01	54.01	0	54.01	209.07
Marengo	23.66	4.60	0	4.60	27.31	0	27.31	31.91	0	31.91	1,348.69
Marion	30.38	1.05	.01	1.06	5.54	0	5.54	6.59	.01	6.60	216.92
Marshall	78.20	5.52	0	5.52	16.86	0	16.86	22.38	0	22.38	286.19
Mobile	397.41	29.26	1.10	30.36	1,075.28	0	1,075.28	1,104.54	1.10	1,105.64	2,779.35
Monroe	24.55	6.29	.05	6.34	57.52	0	57.52	63.81	.05	63.86	2,599.19
Montgomery	218.88	34.80	0	34.80	25.18	0	25.18	59.98	0	59.98	274.03
Morgan	107.03	9.16	0	9.16	130.95	0	130.95	140.11	0	140.11	1,309.07
Perry	12.71	3.46	0	3.46	4.83	0	4.83	8.29	0	8.29	652.24
Pickens	20.96	3.79	.02	3.81	2.38	0	2.38	6.17	.02	6.19	294.37
Pike	28.85	7.04	0	7.04	4.79	0	4.79	11.83	0	11.83	410.05
Randolph	20.32	1.49	0	1.49	.71	0	.71	2.20	0	2.20	108.27
Russell	51.44	1.64	0	1.64	32.49	0	32.49	34.13	0	34.13	663.49
St. Clair	57.71	7.93	0	7.93	.74	0	.74	8.67	0	8.67	150.23
Shelby	123.50	15.95	.09	16.04	703.99	0	703.99	719.94	.09	720.03	5,829.47
Sumter	16.39	.69	0	.69	8.89	0	8.89	9.58	0	9.58	584.50
Talladega	76.74	8.69	0	8.69	68.52	0	68.52	77.21	0	77.21	1,006.12
Tallapoosa	39.74	.75	0	.75	12.32	0	12.32	13.07	0	13.07	328.89
Tuscaloosa	158.73	3.54	1.98	5.52	31.72	0	31.72	35.26	1.98	37.24	222.14
Walker	69.68	2.08	.01	2.09	904.63	0	904.63	906.71	.01	906.72	**
Washington	17.38	9.40	.02	9.42	77.04	0	77.04	86.44	.02	86.46	4,973.53
Wilcox	13.63	1.86	0	1.86	41.15	0	41.15	43.01	0	43.01	3,155.54
Winston	23.49	1.54	0	1.54	1.11	0	1.11	2.65	0	2.65	112.81
Total	4,252.98	436.11	9.06	445.17	6,651.88	0	6,651.88	7,087.99	9.06	7,097.05	1,666.59

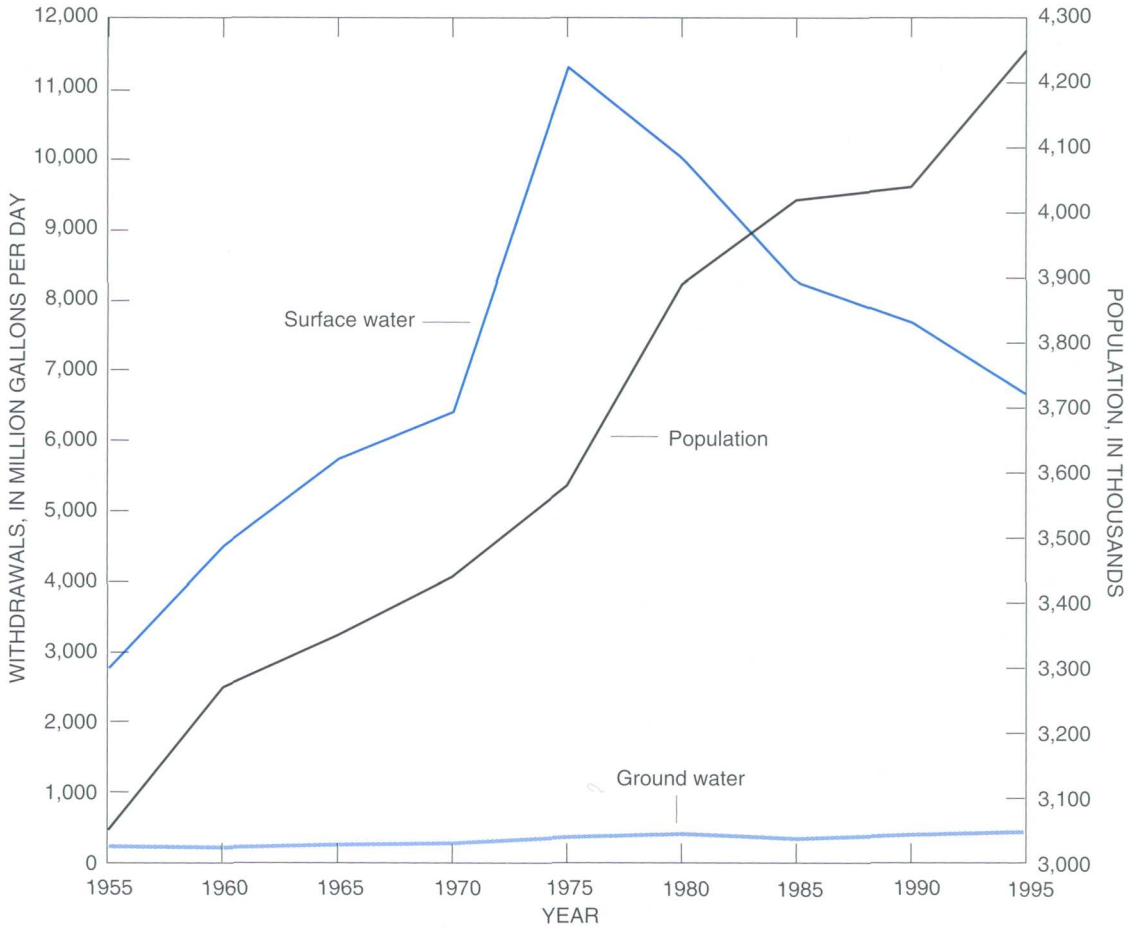

Figure 3. Water-use trends in Alabama, 1955–95.

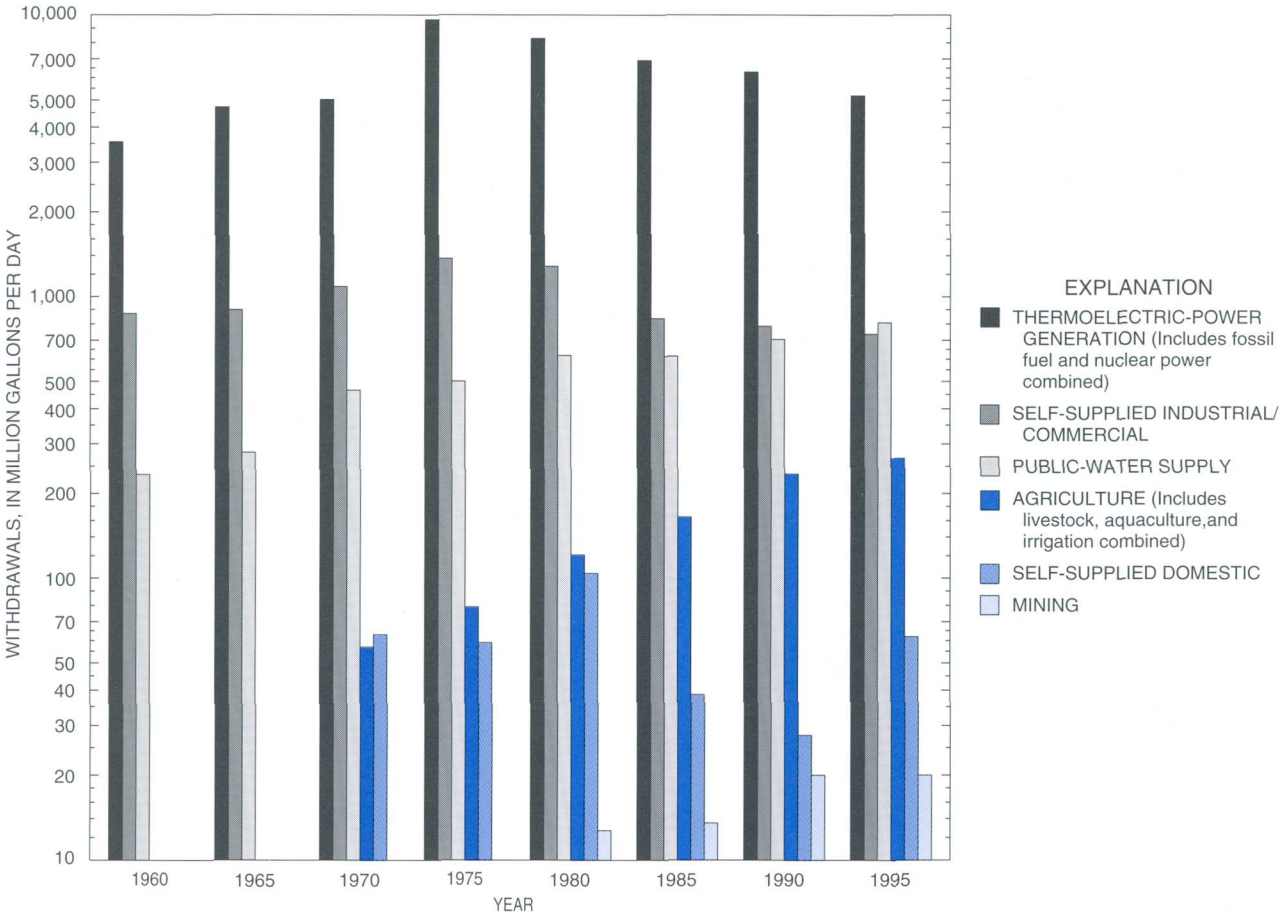

Figure 4. Historical water use in Alabama, by category, 1960–95.

where the largest withdrawals were for thermoelectric-power generation, public supply, and industrial use. Combined withdrawals from these two counties accounted for one-third of the total water withdrawn in 1995. With the exception of 8 Mgal/d of saline water withdrawn for mining, all withdrawals in this report are freshwater withdrawals.

Public Supply

Public supply refers to water withdrawn by public and private water suppliers and delivered to multiple users for domestic, commercial, industrial, and thermoelectric-power generation uses. Public supply includes public and private systems that furnish water to at least 25 people or have a minimum of 15 service connections.

Data on public-supply withdrawals were obtained from OWR data files. The OWR requires all public water suppliers in Alabama to submit reports of their annual water withdrawals and deliveries. Data for about 520 public water suppliers on file at the OWR were available for this compilation. The number of service connections of each system is reported on the data forms submitted to the OWR. In order to estimate the number of people served by a system, the number of service connections for each facility is multiplied by the 1990 statewide average number of people per household of 2.7 (Alabama Department of Economic and Community Affairs, 1992).

Aggregation of public water-supply data by hydrologic cataloging unit is difficult to estimate because the boundaries of the State, towns, and cities often straddle hydrologic unit division lines. In the absence of detailed distribution information, this report assumes that population and water deliveries were split equally between the hydrologic cataloging units involved. In most instances in connection with this compilation, the locations of withdrawal points were

known; therefore, the distributions of withdrawal data for public suppliers for each county and for each hydrologic cataloging unit are more accurate than would have been possible with heavier reliance on assumed locations. The percentage of public-supply withdrawals delivered to each category of use is available from estimates submitted to the OWR by the water suppliers.

Public-supply withdrawals in 1995 in Alabama were about 812 Mgal/d (table 2), which is about 11 percent of the total withdrawals of water in the State for all purposes (fig. 5). Montgomery County had the largest withdrawals of ground water for public supply at 32.4 Mgal/d, and Mobile County had the largest withdrawals of surface water for public supply at 143 Mgal/d.

Table 2. Water withdrawals for public water supply, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Population served, in thousands			Public-supply water withdrawals, in Mgal/d								
				Source and type						Total		
				Ground water			Surface water					
	Ground water	Surface water	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Autauga	36.10	0	36.10	4.96	0	4.96	0	0	0	4.96	0	4.96
Baldwin	66.25	0	66.25	12.03	0	12.03	0	0	0	12.03	0	12.03
Barbour	25.32	0	25.32	4.52	0	4.52	0	0	0	4.52	0	4.52
Bibb	13.24	0	13.24	2.05	0	2.05	0	0	0	2.05	0	2.05
Blount	28.66	3.20	31.86	2.38	0	2.38	46.81	0	46.81	49.19	0	49.19
Bullock	10.88	0	10.88	1.79	0	1.79	0	0	0	1.79	0	1.79
Butler	18.59	0	18.59	2.20	0	2.20	0	0	0	2.20	0	2.20
Calhoun	100.00	7.36	107.36	20.73	0	20.73	1.66	0	1.66	22.39	0	22.39
Chambers	0	34.00	34.00	0	0	0	5.84	0	5.84	5.84	0	5.84
Cherokee	9.88	5.00	14.88	.16	0	.16	1.40	0	1.40	1.56	0	1.56
Chilton	13.22	9.00	22.22	1.91	0	1.91	1.52	0	1.52	3.43	0	3.43
Choctaw	8.86	0	8.86	1.06	0	1.06	0	0	0	1.06	0	1.06
Clarke	7.00	15.72	22.72	.98	0	.98	1.58	0	1.58	2.56	0	2.56
Clay	0	6.68	6.68	0	0	0	1.35	0	1.35	1.35	0	1.35
Cleburne	.27	2.93	3.20	.07	0	.07	.60	0	.60	.67	0	.67
Coffee	33.70	0	33.70	5.37	0	5.37	0	0	0	5.37	0	5.37
Colbert	4.00	43.33	47.33	.45	0	.45	7.14	0	7.14	7.59	0	7.59
Conecuh	9.20	0	9.20	1.54	0	1.54	0	0	0	1.54	0	1.54
Coosa	0	8.83	8.83	0	0	0	.40	0	.40	.40	0	.40
Covington	29.18	0	29.18	3.67	0	3.67	0	0	0	3.67	0	3.67
Crenshaw	11.94	0	11.94	1.56	0	1.56	0	0	0	1.56	0	1.56
Cullman	0	65.37	65.37	0	0	0	14.17	0	14.17	14.17	0	14.17
Dale	33.30	0	33.30	4.87	0	4.87	0	0	0	4.87	0	4.87
Dallas	36.75	0	36.75	8.40	0	8.40	0	0	0	8.40	0	8.40
DeKalb	11.15	37.01	48.16	1.22	0	1.22	5.00	0	5.00	6.22	0	6.22
Elmore	30.69	19.84	50.53	2.42	0	2.42	2.02	0	2.02	4.44	0	4.44
Escambia	22.65	0	22.65	4.77	0	4.77	0	0	0	4.77	0	4.77
Etowah	33.59	65.54	99.13	4.25	0	4.25	17.03	0	17.03	21.28	0	21.28
Fayette	.38	8.81	9.19	.04	0	.04	1.58	0	1.58	1.62	0	1.62
Franklin	5.58	14.21	19.79	1.06	0	1.06	2.29	0	2.29	3.35	0	3.35
Geneva	14.44	0	14.44	1.70	0	1.70	0	0	0	1.70	0	1.70
Greene	4.34	0	4.34	.72	0	.72	0	0	0	.72	0	.72
Hale	11.97	0	11.97	2.31	0	2.31	0	0	0	2.31	0	2.31
Henry	9.58	0	9.58	1.48	0	1.48	0	0	0	1.48	0	1.48
Houston	67.92	0	67.92	17.91	0	17.91	0	0	0	17.91	0	17.91

Table 2. Water withdrawals for public water supply, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Population served, in thousands			Public-supply water withdrawals, in Mgal/d								
				Source and type						Total		
	Ground water	Surface water	Total	Ground water			Surface water					
				Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Jackson	5.78	39.46	45.24	0.92	0	0.92	7.37	0	7.37	8.29	0	8.29
Jefferson	33.80	544.53	578.33	8.97	0	8.97	46.98	0	46.98	55.95	0	55.95
Lamar	11.22	0	11.22	2.29	0	2.29	0	0	0	2.29	0	2.29
Lauderdale	9.64	61.61	71.25	1.08	0	1.08	12.51	0	12.51	13.59	0	13.59
Lawrence	0	22.43	22.43	0	0	0	2.06	0	2.06	2.06	0	2.06
Lee	9.45	62.75	72.20	1.30	0	1.30	11.85	0	11.85	13.15	0	13.15
Limestone	16.22	14.27	30.49	2.62	0	2.62	1.55	0	1.55	4.17	0	4.17
Lowndes	8.39	0	8.39	.95	0	.95	0	0	0	.95	0	.95
Macon	1.59	17.24	18.83	.25	0	.25	3.07	0	3.07	3.32	0	3.32
Madison	137.00	94.54	231.54	26.48	0	26.48	21.94	0	21.94	48.42	0	48.42
Marengo	15.98	0	15.98	1.98	0	1.98	0	0	0	1.98	0	1.98
Marion	5.05	21.88	26.93	.57	0	.57	4.63	0	4.63	5.20	0	5.20
Marshall	4.49	48.73	53.22	2.52	0	2.52	16.31	0	16.31	18.83	0	18.83
Mobile	72.82	259.10	331.92	11.15	0	11.15	143.12	0	143.12	154.27	0	154.27
Monroe	19.92	0	19.92	4.96	0	4.96	0	0	0	4.96	0	4.96
Montgomery	119.35	80.00	199.35	32.36	0	32.36	23.12	0	23.12	55.48	0	55.48
Morgan	0	96.06	96.06	0	0	0	29.35	0	29.35	29.35	0	29.35
Perry	4.04	0	4.04	1.10	0	1.10	0	0	0	1.10	0	1.10
Pickens	17.03	0	17.03	2.72	0	2.72	0	0	0	2.72	0	2.72
Pike	21.67	0	21.67	4.25	0	4.25	0	0	0	4.25	0	4.25
Randolph	.42	3.86	4.28	.02	0	.02	.30	0	.30	.32	0	.32
Russell	11.70	34.55	46.25	1.09	0	1.09	6.53	0	6.53	7.62	0	7.62
St. Clair	44.72	0	44.72	6.78	0	6.78	0	0	0	6.78	0	6.78
Shelby	62.86	10.48	73.34	11.65	0	11.65	2.05	0	2.05	13.70	0	13.70
Sumter	1.40	11.64	13.04	.22	0	.22	2.13	0	2.13	2.35	0	2.35
Talladega	22.29	26.30	48.59	5.63	0	5.63	6.20	0	6.20	11.83	0	11.83
Tallapoosa	.10	31.11	31.21	.01	0	.01	11.16	0	11.16	11.17	0	11.17
Tuscaloosa	0	139.24	139.24	0	0	0	25.07	0	25.07	25.07	0	25.07
Walker	3.15	56.82	59.97	.29	0	.29	51.72	0	51.72	52.01	0	52.01
Washington	8.77	0	8.77	1.09	0	1.09	0	0	0	1.09	0	1.09
Wilcox	6.95	1.76	8.71	.68	0	.68	19.87	0	19.87	20.55	0	20.55
Winston	.39	16.90	17.29	.15	0	.15	.59	0	.59	.74	0	.74
Total	1,384.82	2,042.09	3,426.91	252.66	0	252.66	559.87	0	559.87	812.53	0	812.53

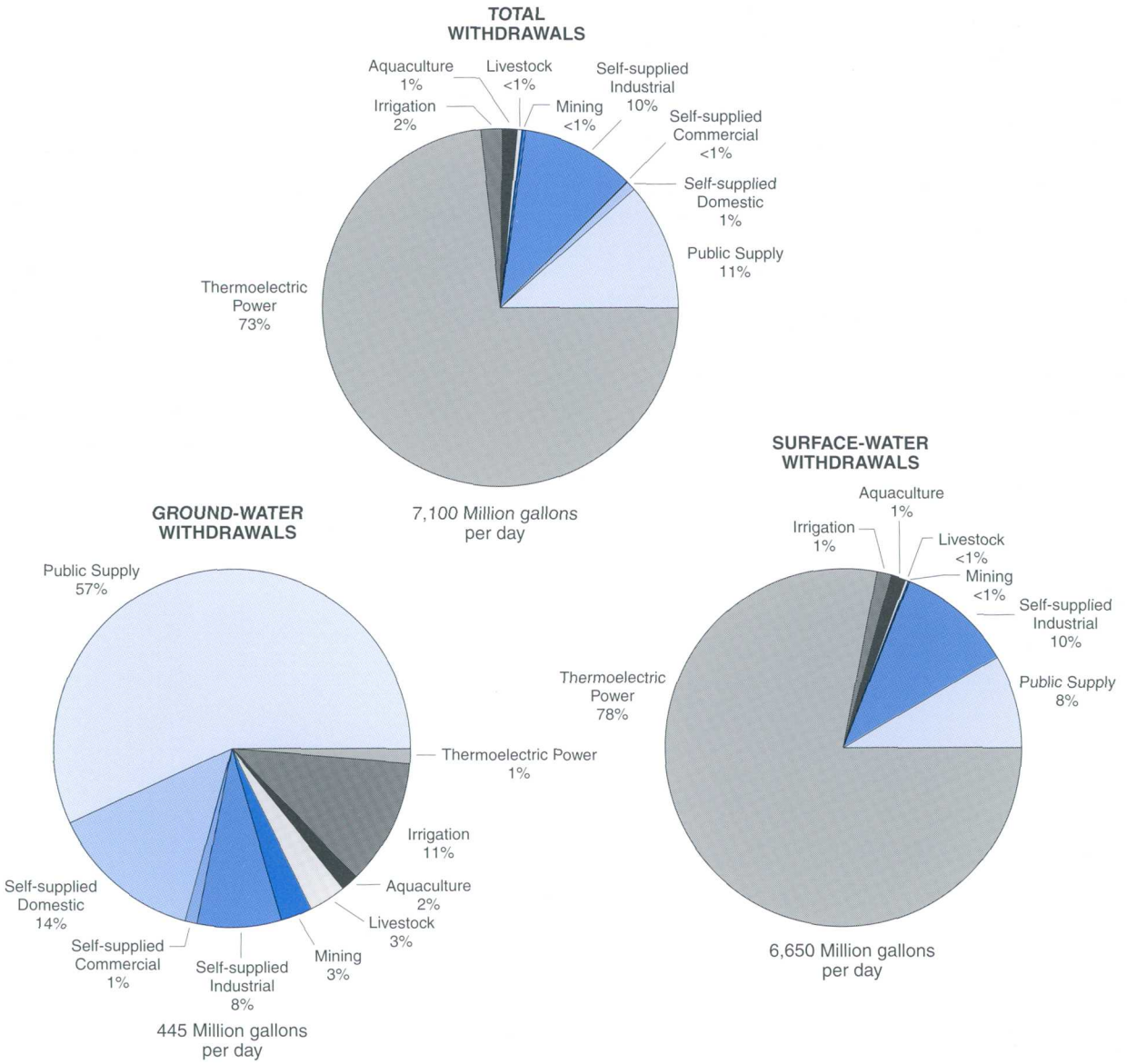

Figure 5. Total, ground-water, and surface-water withdrawals in Alabama, by category of use, 1995. Because of independent rounding, amounts shown for ground- and surface-water withdrawals do not equal amount shown for total withdrawals, and percentages may not total 100.

Domestic Use

Domestic water use includes water for household purposes, such as food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns and gardens. Most water for domestic use is provided by public suppliers. However, a small percentage of users obtains water from industrial wells; these users are considered self supplied. All self-supplied domestic use is assumed to be from ground water (table 3).

The number of self-supplied domestic users is estimated by subtracting the number of people served by public water suppliers from the total population of the county or hydrologic cataloging unit. The amount of water withdrawn for self-supplied domestic use is estimated by multiplying the self-supplied population by 75 gal/d per person (Baker and Mooty, 1987).

Total withdrawals of water in 1995 for domestic use, including deliveries from public water suppliers, were 445 Mgal/d (table 3). Of that, about 383 Mgal/d (86 percent) was obtained from public water suppliers

Table 3. Domestic water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day; gal/d, gallons per day]

County	Population, in thousands	Self supplied									Public supply			Total use			
		Water withdrawals, in Mgal/d									Population served, in thousands	Water deliveries, in Mgal/d	Per capita use, in gal/d	With-drawals and deliveries, in Mgal/d	Consumptive use, in Mgal/d		
		Source and type						Total									
		Ground water			Surface water												
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total					Fresh	Saline	Total
Autauga	3.28	0.25	0	0.25	0	0	0	0.25	0	0.25	36.10	3.69	102.22	3.94	0.50	0	0.50
Baldwin	53.95	4.05	0	4.05	0	0	0	4.05	0	4.05	66.25	8.84	133.43	12.89	4.66	0	4.66
Barbour	1.15	.09	0	.09	0	0	0	.09	0	.09	25.32	2.45	96.76	2.54	.26	0	.26
Bibb	4.70	.35	0	.35	0	0	0	.35	0	.35	13.24	1.30	98.19	1.65	.44	0	.44
Blount	10.86	.81	0	.81	0	0	0	.81	0	.81	31.86	2.98	93.53	3.79	1.02	0	1.02
Bullock	.27	.02	0	.02	0	0	0	.02	0	.02	10.88	.72	66.18	.74	.07	0	.07
Butler	3.21	.24	0	.24	0	0	0	.24	0	.24	18.59	1.53	82.30	1.77	.35	0	.35
Calhoun	9.90	.74	0	.74	0	0	0	.74	0	.74	107.36	10.40	96.87	11.14	1.47	0	1.47
Chambers	3.26	.24	0	.24	0	0	0	.24	0	.24	34.00	6.26	184.12	6.50	.68	0	.68
Cherokee	6.16	.46	0	.46	0	0	0	.46	0	.46	14.88	1.03	69.22	1.49	.53	0	.53
Chilton	12.69	.95	0	.95	0	0	0	.95	0	.95	22.22	2.16	97.21	3.11	1.10	0	1.10
Choctaw	7.22	.54	0	.54	0	0	0	.54	0	.54	8.86	.87	98.19	1.41	.60	0	.60
Clarke	5.27	.39	0	.39	0	0	0	.39	0	.39	22.72	1.82	80.11	2.21	.52	0	.52
Clay	6.87	.52	0	.52	0	0	0	.52	0	.52	6.68	.49	73.35	1.01	.55	0	.55
Cleburne	10.07	.76	0	.76	0	0	0	.76	0	.76	3.20	.30	93.75	1.06	.78	0	.78
Coffee	8.66	.65	0	.65	0	0	0	.65	0	.65	33.70	3.65	108.31	4.30	.90	0	.90
Colbert	5.26	.39	0	.39	0	0	0	.39	0	.39	47.33	3.94	83.25	4.33	.67	0	.67
Conecuh	4.82	.36	0	.36	0	0	0	.36	0	.36	9.20	.87	94.57	1.23	.42	0	.42
Coosa	2.85	.21	0	.21	0	0	0	.21	0	.21	8.83	.77	87.20	.98	.27	0	.27
Covington	8.28	.62	0	.62	0	0	0	.62	0	.62	29.18	1.89	64.77	2.51	.75	0	.75
Crenshaw	1.68	.13	0	.13	0	0	0	.13	0	.13	33.70	1.28	107.20	1.41	.22	0	.22
Cullman	7.12	.53	0	.53	0	0	0	.53	0	.53	47.33	10.31	157.72	10.84	1.26	0	1.26
Dale	16.70	1.25	0	1.25	0	0	0	1.25	0	1.25	9.20	4.24	127.33	5.49	1.55	0	1.55
Dallas	11.27	.84	0	.84	0	0	0	.84	0	.84	8.83	5.80	157.82	6.64	1.25	0	1.25
DeKalb	9.11	.68	0	.68	0	0	0	.68	0	.68	29.18	4.59	95.31	5.27	1.00	0	1.00
Elmore	6.54	.49	0	.49	0	0	0	.49	0	.49	50.53	5.31	105.09	5.80	.86	0	.86
Escambia	13.89	1.04	0	1.04	0	0	0	1.04	0	1.04	22.65	3.13	138.19	4.17	1.26	0	1.26
Etowah	1.13	.08	0	.08	0	0	0	.08	0	.08	99.13	9.99	100.78	10.07	.78	0	.78
Fayette	8.83	.66	0	.66	0	0	0	.66	0	.66	9.19	.82	89.23	1.48	.72	0	.72
Franklin	9.52	.71	0	.71	0	0	0	.71	0	.71	19.79	1.95	98.53	2.66	.85	0	.85

Table 3. Domestic water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; gal/d, gallons per day]

County	Population, in thousands	Self supplied									Public supply			Total use			
		Water withdrawals, in Mgal/d															
		Source and type						Total									
		Ground water			Surface water												
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Population served, in thousands	Water deliveries, in Mgal/d	Per capita use, in gal/d	With-drawals and deliveries, in Mgal/d	Consumptive use, in Mgal/d		
															Fresh	Saline	Total
Geneva	10.29	0.77	0	0.77	0	0	0	0.77	0	0.77	14.44	1.15	79.64	1.92	0.85	0	0.85
Greene	5.74	.43	0	.43	0	0	0	.43	0	.43	4.34	.50	115.21	.93	.46	0	.46
Hale	4.24	.32	0	.32	0	0	0	.32	0	.32	11.97	1.67	139.52	1.99	.44	0	.44
Henry	6.17	.46	0	.46	0	0	0	.46	0	.46	9.58	.86	89.77	1.32	.52	0	.52
Houston	16.45	1.23	0	1.23	0	0	0	1.23	0	1.23	67.92	10.47	154.15	11.70	1.97	0	1.97
Jackson	4.89	.37	0	.37	0	0	0	.37	0	.37	45.24	4.12	91.07	4.49	.66	0	.66
Jefferson	79.50	5.96	0	5.96	0	0	0	5.96	0	5.96	578.33	63.35	109.54	69.31	10.40	0	10.40
Lamar	4.53	.34	0	.34	0	0	0	.34	0	.34	11.22	1.36	121.21	1.70	.44	0	.44
Lauderdale	12.35	.93	0	.93	0	0	0	.93	0	.93	71.25	6.24	87.58	7.17	1.36	0	1.36
Lawrence	10.37	.78	0	.78	0	0	0	.78	0	.78	22.43	1.88	83.82	2.66	.91	0	.91
Lee	21.83	1.64	0	1.64	0	0	0	1.64	0	1.64	72.20	7.88	109.14	9.52	2.19	0	2.19
Limestone	28.85	2.16	0	2.16	0	0	0	2.16	0	2.16	30.49	3.15	103.31	5.31	2.38	0	2.38
Lowndes	4.56	.34	0	.34	0	0	0	.34	0	.34	8.39	.74	88.20	1.08	.39	0	.39
Macon	5.13	.38	0	.38	0	0	0	.38	0	.38	18.83	2.78	147.64	3.16	.58	0	.58
Madison	26.80	2.01	0	2.01	0	0	0	2.01	0	2.01	231.54	26.67	115.19	28.68	3.88	0	3.88
Marengo	7.68	.58	0	.58	0	0	0	.58	0	.58	15.98	1.46	91.36	2.04	.68	0	.68
Marion	3.45	.26	0	.26	0	0	0	.26	0	.26	26.93	4.00	148.53	4.26	.54	0	.54
Marshall	24.98	1.87	0	1.87	0	0	0	1.87	0	1.87	53.22	7.27	136.60	9.14	2.38	0	2.38
Mobile	65.49	4.91	0	4.91	0	0	0	4.91	0	4.91	331.92	44.00	132.56	48.91	7.99	0	7.99
Monroe	4.63	.35	0	.35	0	0	0	.35	0	.35	19.92	1.75	87.85	2.10	.47	0	.47
Montgomery	19.53	1.46	0	1.46	0	0	0	1.46	0	1.46	199.35	22.47	112.72	23.93	3.04	0	3.04
Morgan	10.97	.82	0	.82	0	0	0	.82	0	.82	96.06	9.22	95.98	10.04	1.47	0	1.47
Perry	8.67	.65	0	.65	0	0	0	.65	0	.65	4.04	.19	47.03	.84	.66	0	.66
Pickens	3.93	.29	0	.29	0	0	0	.29	0	.29	17.03	1.37	80.45	1.66	.39	0	.39
Pike	7.18	.54	0	.54	0	0	0	.54	0	.54	21.67	2.07	95.52	2.61	.68	0	.68
Randolph	16.04	1.20	0	1.20	0	0	0	1.20	0	1.20	4.28	.36	84.11	1.56	1.23	0	1.23
Russell	5.19	.39	0	.39	0	0	0	.39	0	.39	46.25	4.44	96.00	4.83	.70	0	.70
St. Clair	12.99	.98	0	.98	0	0	0	.98	0	.98	44.72	4.64	103.76	5.62	1.30	0	1.30
Shelby	50.16	3.76	0	3.76	0	0	0	3.76	0	3.76	73.34	9.04	123.26	12.80	4.40	0	4.40
Sumter	3.35	.25	0	.25	0	0	0	.25	0	.25	13.04	1.11	85.12	1.36	.33	0	.33

Table 3. Domestic water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; gal/d, gallons per day]

County	Population, in thousands	Self supplied									Public supply			Total use			
		Water withdrawals, in Mgal/d									Population served, in thousands	Water deliveries, in Mgal/d	Per capita use, in gal/d	With-drawals and deliveries, in Mgal/d	Consumptive use, in Mgal/d		
		Source and type						Total									
		Ground water			Surface water												
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total					Fresh	Saline	Total
Talladega ...	28.15	2.11	0	2.11	0	0	0	2.11	0	2.11	48.59	7.30	150.24	9.41	2.62	0	2.62
Tallapoosa .	8.53	.64	0	.64	0	0	0	.64	0	.64	31.21	3.31	106.06	3.95	.87	0	.87
Tuscaloosa.	19.49	1.46	0	1.46	0	0	0	1.46	0	1.46	139.24	13.12	94.23	14.58	2.38	0	2.38
Walker	9.71	.73	0	.73	0	0	0	.73	0	.73	59.97	6.17	102.88	6.90	1.16	0	1.16
Washington	8.61	.65	0	.65	0	0	0	.65	0	.65	8.77	.68	77.54	1.33	.69	0	.69
Wilcox	4.92	.37	0	.37	0	0	0	.37	0	.37	8.71	1.55	177.96	1.92	.48	0	.48
Winston	6.20	.46	0	.46	0	0	0	.46	0	.46	17.29	1.59	91.96	2.05	.57	0	.57
Total	826.07	0.25	0	0.25	0	0	0	61.90	0	61.90	3,426.91	383.31	111.85	445.21	88.75	0	88.75

and 61.9 Mgal/d (14 percent) was from self-supplied domestic users (table 3). Jefferson County had the largest amount of public water supply deliveries for domestic use at 63.4 Mgal/d as well as the most self-supplied domestic use withdrawals at 5.96 Mgal/d. Consumptive use for self-supplied domestic use is estimated to be 100 percent; consumptive use for public-supplied domestic use is estimated to be 7 percent (Solley and others, 1983). Consumptive use for domestic water use in Alabama was 88.8 Mgal/d, or 20 percent of the total deliveries and withdrawals in 1995 (table 3).

Commercial Use

Commercial water use includes water for motels, hotels, restaurants, office buildings, and civilian and military institutions. Estimates of water supplied by public-supply facilities to commercial users were obtained from data reported to the OWR by the public-supply facilities.

Amounts of water withdrawn by self-supplied commercial water users were obtained by the OWR, as self-supplied commercial users that withdraw more than 0.1 Mgal/d of water are required to report their withdrawals. Total commercial water use in Alabama for 1995 was 127 Mgal/d, of which 96 percent (122 Mgal/d) was delivered from public supply and 4 percent (4.88 Mgal/d) was self supplied (table 4). Dale County had the largest self-supplied withdrawals at 4.59 Mgal/d, primarily because of withdrawals by Fort Rucker Aviation Center. Jefferson County had the most public-supplied commercial use at 27.1 Mgal/d, followed by Montgomery County at 18.3 Mgal/d. Consumptive use for commercial water use was estimated to be 22 percent, or about 28 Mgal/d, in 1995 (Solley and others, 1983).

Table 4. Self-supplied withdrawals and public-supply deliveries for commercial water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Autauga	0	0	0	0	0	0	0	0	0	0.47	0.47
Baldwin	0	0	0	0	0	0	0	0	0	2.00	2.00
Barbour	0	0	0	0	0	0	0	0	0	1.13	1.13
Bibb	.02	0	.02	0	0	0	.02	0	.02	.19	.21
Blount	0	0	0	0	0	0	0	0	0	.33	.33
Bullock	0	0	0	0	0	0	0	0	0	.23	.23
Butler	0	0	0	0	0	0	0	0	0	.50	.50
Calhoun	0	0	0	0	0	0	0	0	0	5.17	5.17
Chambers	0	0	0	0	0	0	0	0	0	.27	.27
Cherokee	0	0	0	0	0	0	0	0	0	.09	.09
Chilton	0	0	0	0	0	0	0	0	0	.10	.10
Choctaw	0	0	0	0	0	0	0	0	0	.08	.08
Clarke	0	0	0	0	0	0	0	0	0	.62	.62
Clay	0	0	0	0	0	0	0	0	0	.04	.04
Cleburne	0	0	0	0	0	0	0	0	0	.08	.08
Coffee	0	0	0	0	0	0	0	0	0	.97	.97
Colbert	0	0	0	0	0	0	0	0	0	1.04	1.04
Conecuh	0	0	0	0	0	0	0	0	0	.42	.42
Coosa	0	0	0	0	0	0	0	0	0	.03	.03
Covington	0	0	0	0	0	0	0	0	0	1.06	1.06
Crenshaw	0	0	0	0	0	0	0	0	0	.04	.04
Cullman	0	0	0	0	0	0	0	0	0	1.36	1.36
Dale	4.59	0	4.59	0	0	0	4.59	0	4.59	.46	5.05
Dallas	0	0	0	0	0	0	0	0	0	.77	.77
DeKalb	0	0	0	0	0	0	0	0	0	.63	.63

Table 4. Self-supplied withdrawals and public-supply deliveries for commercial water use, by county, in Alabama, 1995—Continued

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Elmore	0	0	0	0	0	0	0	0	0	0.75	0.75
Escambia	0	0	0	0	0	0	0	0	0	.38	.38
Etowah	0	0	0	0	0	0	0	0	0	.60	.60
Fayette	0	0	0	0	0	0	0	0	0	.04	.04
Franklin	0	0	0	0	0	0	0	0	0	.33	.33
Geneva	0	0	0	0	0	0	0	0	0	.18	.18
Greene	0	0	0	0	0	0	0	0	0	.06	.06
Hale	0	0	0	0	0	0	0	0	0	.17	.17
Henry	0	0	0	0	0	0	0	0	0	.23	.23
Houston	0	0	0	0	0	0	0	0	0	1.68	1.68
Jackson	0	0	0	0	0	0	0	0	0	1.02	1.02
Jefferson	0	0	0	0	0	0	0	0	0	27.08	27.08
Lamar	0	0	0	0	0	0	0	0	0	.04	.04
Lauderdale	0	0	0	0	0	0	0	0	0	5.97	5.97
Lawrence	0	0	0	0	0	0	0	0	0	.20	.20
Lee	0	0	0	0	0	0	0	0	0	2.78	2.78
Limestone	0	0	0	0	0	0	0	0	0	.10	.10
Lowndes	0	0	0	0	0	0	0	0	0	.05	.05
Macon	.06	0	.06	0	0	0	.06	0	.06	.51	.57
Madison	0	0	0	0	0	0	0	0	0	7.95	7.95
Marengo	0	0	0	0	0	0	0	0	0	.24	.24
Marion	0	0	0	0	0	0	0	0	0	.17	.17
Marshall	0	0	0	0	0	0	0	0	0	4.97	4.97
Mobile	.14	0	.14	0	0	0	.14	0	.14	4.41	4.55
Monroe	0	0	0	0	0	0	0	0	0	.68	.68
Montgomery	.01	0	.01	0	0	0	.01	0	.01	18.32	18.33
Morgan	0	0	0	0	0	0	0	0	0	8.79	8.79
Perry	0	0	0	0	0	0	0	0	0	.02	.02
Pickens	0	0	0	0	0	0	0	0	0	.27	.27
Pike	0	0	0	0	0	0	0	0	0	.91	.91
Randolph	0	0	0	0	0	0	0	0	0	.04	.04
Russell	0	0	0	0	0	0	0	0	0	1.22	1.22
St. Clair	0	0	0	0	0	0	0	0	0	.83	.83
Shelby	.06	0	.06	0	0	0	.06	0	.06	2.64	2.70
Sumter	0	0	0	0	0	0	0	0	0	.21	.21
Talladega	0	0	0	0	0	0	0	0	0	1.42	1.42
Tallapoosa	0	0	0	0	0	0	0	0	0	.67	.67
Tuscaloosa	0	0	0	0	0	0	0	0	0	6.51	6.51
Walker	0	0	0	0	0	0	0	0	0	1.01	1.01
Washington	0	0	0	0	0	0	0	0	0	.11	.11
Wilcox	0	0	0	0	0	0	0	0	0	.39	.39
Winston	0	0	0	0	0	0	0	0	0	.16	.16
Total	4.88	0	4.88	0	0	0	4.88	0	4.88	122.19	127.07

Industrial Use

Industrial water use includes water for such purposes as processing, washing, and cooling in facilities that manufacture products. Estimates of water supplied by public-supply facilities to industrial users were obtained from data reported to the OWR by the public-supply facilities. Amounts of water withdrawn by self-supplied water users were obtained by the OWR, as those self-supplied industrial users that withdraw more than 0.1 Mgal/d of water are required to report their withdrawals. Some of the larger industrial users in Alabama are paper mills, chemical manufacturing plants, and steel mills.

Self-supplied industrial water use has decreased from about 1,400 Mgal/d in 1975 to 733 Mgal/d in 1995 (table 5). Mobile County had the largest deliveries of water to industries from public-supply facilities of about 100 Mgal/d, followed by Jefferson County at 31.8 Mgal/d, and Morgan County at 14.7 Mgal/d. When data were available, consumptive use was determined by subtracting releases by the facility from their withdrawals; otherwise, a consumptive rate of 22 percent was used (Solley and others, 1983).

Table 5. Self-supplied withdrawals and deliveries for industrial water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Autauga	1.84	0	1.84	32.27	0	32.27	34.11	0	34.11	0.36	34.47
Baldwin	.01	0	.01	0	0	0	.01	0	.01	.42	.43
Barbour	.94	0	.94	0	0	0	.94	0	.94	.42	1.36
Bibb	0	0	0	0	0	0	0	0	0	.08	.08
Blount	0	0	0	0	0	0	0	0	0	.51	.51
Bullock	0	0	0	0	0	0	0	0	0	.61	.61
Butler	.21	0	.21	0	0	0	.21	0	.21	.06	.27
Calhoun	1.11	0	1.11	0	0	0	1.11	0	1.11	1.14	2.25
Chambers	0	0	0	5.79	0	5.79	5.79	0	5.79	1.88	7.67
Cherokee	0	0	0	0	0	0	0	0	0	.03	.03
Chilton	.49	0	.49	0	0	0	.49	0	.49	.09	.58
Choctaw	0	0	0	48.22	0	48.22	48.22	0	48.22	.05	48.27
Clarke	0	0	0	21.80	0	21.80	21.80	0	21.80	.59	22.39
Clay	0	0	0	0	0	0	0	0	0	.63	.63
Cleburne	.82	0	.82	0	0	0	.82	0	.82	.15	.97
Coffee	.77	0	.77	0	0	0	.77	0	.77	.09	.86
Colbert	1.02	0	1.02	56.22	0	56.22	57.24	0	57.24	.78	58.02
Conecuh	0	0	0	0	0	0	0	0	0	.36	.36
Coosa	0	0	0	0	0	0	0	0	0	.05	.05
Covington	.78	0	.78	0	0	0	.78	0	.78	.94	1.72
Crenshaw	0	0	0	0	0	0	0	0	0	.02	.02
Cullman	0	0	0	2.88	0	2.88	2.88	0	2.88	1.19	4.07
Dale	0	0	0	0	0	0	0	0	0	.03	.03
Dallas	.36	0	.36	37.76	0	37.76	38.12	0	38.12	1.02	39.14
DeKalb	.99	0	.99	0	0	0	.99	0	.99	1.54	2.53
Elmore	0	0	0	0	0	0	0	0	0	.10	.10
Escambia	1.30	0	1.30	35.52	0	35.52	36.82	0	36.82	.81	37.63
Etowah	0	0	0	93.46	0	93.46	93.46	0	93.46	5.55	99.01
Fayette	0	0	0	0	0	0	0	0	0	.48	.48
Franklin	0	0	0	0	0	0	0	0	0	1.03	1.03

Table 5. Self-supplied withdrawals and deliveries for industrial water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Geneva	0	0	0	0	0	0	0	0	0	0.01	0.01
Greene	0	0	0	0	0	0	0	0	0	.03	.03
Hale	0	0	0	0	0	0	0	0	0	.19	.19
Henry	.22	0	.22	0	0	0	.22	0	.22	.15	.37
Houston	0	0	0	0	0	0	0	0	0	3.79	3.79
Jackson	.02	0	.02	4.30	0	4.30	4.32	0	4.32	2.56	6.88
Jefferson	.23	0	.23	0	0	0	.23	0	.23	31.81	32.04
Lamar	.54	0	.54	0	0	0	.54	0	.54	.98	1.52
Lauderdale	0	0	0	0	0	0	0	0	0	.10	.10
Lawrence	0	0	0	56.34	0	56.34	56.34	0	56.34	.05	56.39
Lee	0	0	0	2.08	0	2.08	2.08	0	2.08	1.44	3.52
Limestone	0	0	0	0	0	0	0	0	0	1.05	1.05
Lowndes	0	0	0	0	0	0	0	0	0	.02	.02
Macon	0	0	0	0	0	0	0	0	0	.15	.15
Madison	0	0	0	.96	0	.96	.96	0	.96	5.87	6.83
Marengo	1.37	0	1.37	25.72	0	25.72	27.09	0	27.09	.39	27.48
Marion	0	0	0	0	0	0	0	0	0	.84	.84
Marshall	.63	0	.63	0	0	0	.63	0	.63	3.17	3.80
Mobile	2.63	0	2.63	1.20	0	1.20	3.83	0	3.83	100.27	104.10
Monroe	.27	0	.27	57.07	0	57.07	57.34	0	57.34	1.98	59.32
Montgomery	.01	0	.01	.64	0	.64	.65	0	.65	3.81	4.46
Morgan	7.84	0	7.84	100.44	0	100.44	108.28	0	108.28	14.72	123.00
Perry	0	0	0	0	0	0	0	0	0	.13	.13
Pickens	.27	0	.27	0	0	0	.27	0	.27	.27	.54
Pike	0	0	0	0	0	0	0	0	0	1.02	1.02
Randolph	0	0	0	0	0	0	0	0	0	.02	.02
Russell	.09	0	.09	25.03	0	25.03	25.12	0	25.12	2.55	27.67
St. Clair	0	0	0	0	0	0	0	0	0	.56	.56
Shelby	0	0	0	0	0	0	0	0	0	.74	.74
Sumter	0	0	0	0	0	0	0	0	0	.35	.35
Talladega	.50	0	.50	60.19	0	60.19	60.69	0	60.69	2.81	63.50
Tallapoosa	0	0	0	0	0	0	0	0	0	5.95	5.95
Tuscaloosa	1.00	0	1.00	1.80	0	1.80	2.80	0	2.80	2.54	5.34
Walker	0	0	0	0	0	0	0	0	0	1.01	1.01
Washington	7.53	0	7.53	9.79	0	9.79	17.32	0	17.32	.11	17.43
Wilcox	0	0	0	19.87	0	19.87	19.87	0	19.87	.15	20.02
Winston	0	0	0	0	0	0	0	0	0	.52	.52
Total	33.79	0	33.79	699.35	0	699.35	733.14	0	733.14	213.12	946.26

Mining

Mining water use includes water used for coal, sand, and gravel washing operations, and saline withdrawals from oil and natural gas production wells. Any mining operation that withdraws more than 0.1 Mgal/d is required to report withdrawals to the OWR; there were only a few of these in 1995. Other mining water-use data were estimated by using information from the 1990 water-use compilation (Baker and Mooty, 1993). Withdrawals for mining in 1995 totaled about 20.0 Mgal/d (table 6) and were less than 1 percent of the total water use in Alabama (fig. 5). This category is the State's only use of saline water (9.06 Mgal/d), which is produced by oil and gas wells. Consumptive use for mining was considered to be negligible.

Table 6. Withdrawals for mining water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Source and type						Total						
	Ground water			Surface water									
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	
Autauga	0	0	0	0	0	0	0	0	0	0	0	0	0
Baldwin	0	.24	.24	0	0	0	0	.24	.24	0	0	0	0
Barbour	0	0	0	0	0	0	0	0	0	0	0	0	0
Bibb	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
Blount	.01	0	.01	0	0	0	.01	0	.01	0	0	0	0
Bullock	0	0	0	0	0	0	0	0	0	0	0	0	0
Butler	0	0	0	0	0	0	0	0	0	0	0	0	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	0
Chambers	0	0	0	0	0	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0	0	0	0	0	0
Chilton	0	0	0	0	0	0	0	0	0	0	0	0	0
Choctaw	.03	1.26	1.29	0	0	0	.03	1.26	1.29	0	0	0	0
Clarke	0	.36	.36	0	0	0	0	.36	.36	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0	0	0	0	0	0
Coffee	0	0	0	0	0	0	0	0	0	0	0	0	0
Colbert	0	0	0	0	0	0	0	0	0	0	0	0	0
Conecuh	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
Coosa	0	0	0	0	0	0	0	0	0	0	0	0	0
Covington	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
Crenshaw	0	0	0	0	0	0	0	0	0	0	0	0	0
Cullman	.12	0	.12	.38	0	.38	.50	0	.50	0	0	0	0
Dale	0	0	0	0	0	0	0	0	0	0	0	0	0
Dallas	0	0	0	0	0	0	0	0	0	0	0	0	0
DeKalb	0	0	0	0	0	0	0	0	0	0	0	0	0
Elmore	0	0	0	0	0	0	0	0	0	0	0	0	0
Escambia	.01	2.19	2.20	0	0	0	.01	2.19	2.20	0	0	0	0
Etowah	0	0	0	0	0	0	0	0	0	0	0	0	0
Fayette	.07	.01	.08	.19	0	.19	.26	.01	.27	0	0	0	0
Franklin	0	0	0	0	0	0	0	0	0	0	0	0	0
Geneva	0	0	0	0	0	0	0	0	0	0	0	0	0
Greene	0	0	0	0	0	0	0	0	0	0	0	0	0
Hale	0	.02	.02	0	0	0	0	.02	.02	0	0	0	0
Henry	0	0	0	0	0	0	0	0	0	0	0	0	0
Houston	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 6. Withdrawals for mining water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Source and type						Total						
	Ground water			Surface water									
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	
Jackson	0	0	0	0	0	0	0	0	0	0	0	0	0
Jefferson	.53	1.54	2.07	1.58	0	1.58	2.11	1.54	3.65	0	0	0	0
Lamar	.29	.13	.42	0	0	0	.29	.13	.42	0	0	0	0
Lauderdale	0	0	0	0	0	0	0	0	0	0	0	0	0
Lawrence	0	0	0	0	0	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0	0	0	0	0	0
Limestone	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowndes	0	0	0	0	0	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0	0	0	0	0	0
Marengo	0	0	0	0	0	0	0	0	0	0	0	0	0
Marion	.03	.01	.04	.10	0	.10	.13	.01	.14	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobile	.60	1.10	1.70	0	0	0	.60	1.10	1.70	0	0	0	0
Monroe	0	.05	.05	0	0	0	0	.05	.05	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0	0	0	0	0	0
Morgan	0	0	0	0	0	0	0	0	0	0	0	0	0
Perry	0	0	0	0	0	0	0	0	0	0	0	0	0
Pickens	0	.02	.02	0	0	0	0	.02	.02	0	0	0	0
Pike	0	0	0	0	0	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0	0	0	0	0	0
Russell	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Clair	0	0	0	0	0	0	0	0	0	0	0	0	0
Shelby	0	.09	.09	0	0	0	0	.09	.09	0	0	0	0
Sumter	0	0	0	0	0	0	0	0	0	0	0	0	0
Talladega	0	0	0	0	0	0	0	0	0	0	0	0	0
Tallapoosa	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuscaloosa	.63	1.98	2.61	1.88	0	1.88	2.51	1.98	4.49	0	0	0	0
Walker	.96	.01	.97	2.87	0	2.87	3.83	.01	3.84	0	0	0	0
Washington	0	.02	.02	0	0	0	0	.02	.02	0	0	0	0
Wilcox	0	0	0	0	0	0	0	0	0	0	0	0	0
Winston	.70	0	.70	0	0	0	.70	0	.70	0	0	0	0
Total	3.98	9.06	13.04	7.00	0	7.00	10.98	9.06	20.04	0	0	0	0

Livestock

Livestock water use includes water for feed lots, dairies, production of poultry and eggs, and other farm needs. Water-use estimates for livestock were made by multiplying the number of chickens, cattle, hogs, and pigs in each county, as reported by the Alabama Agricultural Statistics Service (1995), by an estimate of water use for each type of animal (Kammerer, 1976). Coefficients of use for each type of animal were as follows: dairy cattle, 35 gal/d; other cattle, 12 gal/d; hogs, 5 gal/d; and poultry, 0.05 gal/d.

Water withdrawn for dairy cattle and poultry was estimated to be 90 percent ground water and 10 percent surface water. Water for other cattle and hogs was estimated to be 40 percent ground water and 60 percent surface water (Holland, 1992).

Total water withdrawals for livestock in Alabama in 1995 were about 34.9 Mgal/d (table 7), about 29 Mgal/d less than in 1990. Cullman County had the largest withdrawals for livestock water use at 1.85 Mgal/d, followed by DeKalb County at 1.48 Mgal/d, Morgan County at 1.10 Mgal/d, and Marshall County at 1.00 Mgal/d. All of these counties are large poultry producers. All withdrawals for livestock assumed a 100-percent consumption rate.

Table 7. Withdrawals for livestock (stock) water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d		
	Source and type						Total					
	Ground water			Surface water								
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Autauga	0.19	0	0.19	0.29	0	0.29	0.48	0	0.48	0.48	0	0.48
Baldwin	.37	0	.37	.44	0	.44	.81	0	.81	.81	0	.81
Barbour	.18	0	.18	.26	0	.26	.44	0	.44	.44	0	.44
Bibb	.07	0	.07	.10	0	.10	.17	0	.17	.17	0	.17
Blount	.43	0	.43	.47	0	.47	.90	0	.90	.90	0	.90
Bullock	.13	0	.13	.20	0	.20	.33	0	.33	.33	0	.33
Butler	.15	0	.15	.22	0	.22	.37	0	.37	.37	0	.37
Calhoun	.19	0	.19	.26	0	.26	.45	0	.45	.45	0	.45
Chambers	.12	0	.12	.18	0	.18	.30	0	.30	.30	0	.30
Cherokee	.12	0	.12	.18	0	.18	.30	0	.30	.30	0	.30
Chilton	.16	0	.16	.24	0	.24	.40	0	.40	.40	0	.40
Choctaw	.08	0	.08	.12	0	.12	.20	0	.20	.20	0	.20
Clarke	.06	0	.06	.10	0	.10	.16	0	.16	.16	0	.16
Clay	.21	0	.21	.28	0	.28	.49	0	.49	.49	0	.49
Cleburne	.11	0	.11	.13	0	.13	.24	0	.24	.24	0	.24
Coffee	.27	0	.27	.36	0	.36	.63	0	.63	.63	0	.63
Colbert	.18	0	.18	.24	0	.24	.42	0	.42	.42	0	.42
Conecuh	.12	0	.12	.18	0	.18	.30	0	.30	.30	0	.30
Coosa	.06	0	.06	.08	0	.08	.14	0	.14	.14	0	.14
Covington	.29	0	.29	.40	0	.40	.69	0	.69	.69	0	.69
Crenshaw	.22	0	.22	.31	0	.31	.53	0	.53	.53	0	.53
Cullman	.94	0	.94	.91	0	.91	1.85	0	1.85	1.85	0	1.85
Dale	.15	0	.15	.21	0	.21	.36	0	.36	.36	0	.36
Dallas	.30	0	.30	.45	0	.45	.75	0	.75	.75	0	.75
DeKalb	.70	0	.70	.78	0	.78	1.48	0	1.48	1.48	0	1.48

Table 7. Withdrawals for livestock (stock) water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d		
	Source and type						Total					
	Ground water			Surface water								
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Elmore	0.19	0	0.19	0.24	0	0.24	0.43	0	0.43	0.43	0	0.43
Escambia	.10	0	.10	.15	0	.15	.25	0	.25	.25	0	.25
Etowah	.24	0	.24	.30	0	.30	.54	0	.54	.54	0	.54
Fayette	.10	0	.10	.12	0	.12	.22	0	.22	.22	0	.22
Franklin	.28	0	.28	.37	0	.37	.65	0	.65	.65	0	.65
Geneva	.34	0	.34	.44	0	.44	.78	0	.78	.78	0	.78
Greene	.12	0	.12	.17	0	.17	.29	0	.29	.29	0	.29
Hale	.29	0	.29	.35	0	.35	.64	0	.64	.64	0	.64
Henry	.16	0	.16	.23	0	.23	.39	0	.39	.39	0	.39
Houston	.30	0	.30	.43	0	.43	.73	0	.73	.73	0	.73
Jackson	.38	0	.38	.48	0	.48	.86	0	.86	.86	0	.86
Jefferson	.08	0	.08	.12	0	.12	.20	0	.20	.20	0	.20
Lamar	.09	0	.09	.11	0	.11	.20	0	.20	.20	0	.20
Lauderdale	.36	0	.36	.51	0	.51	.87	0	.87	.87	0	.87
Lawrence	.31	0	.31	.42	0	.42	.73	0	.73	.73	0	.73
Lee	.11	0	.11	.17	0	.17	.28	0	.28	.28	0	.28
Limestone	.26	0	.26	.33	0	.33	.59	0	.59	.59	0	.59
Lowndes	.39	0	.39	.58	0	.58	.97	0	.97	.97	0	.97
Macon	.12	0	.12	.18	0	.18	.30	0	.30	.30	0	.30
Madison	.28	0	.28	.37	0	.37	.65	0	.65	.65	0	.65
Marengo	.33	0	.33	.50	0	.50	.83	0	.83	.83	0	.83
Marion	.19	0	.19	.27	0	.27	.46	0	.46	.46	0	.46
Marshall	.50	0	.50	.50	0	.50	1.00	0	1.00	1.00	0	1.00
Mobile	.22	0	.22	.26	0	.26	.48	0	.48	.48	0	.48
Monroe	.13	0	.13	.20	0	.20	.33	0	.33	.33	0	.33
Montgomery	.40	0	.40	.58	0	.58	.98	0	.98	.98	0	.98
Morgan	.50	0	.50	.60	0	.60	1.10	0	1.10	1.10	0	1.10
Perry	.20	0	.20	.27	0	.27	.47	0	.47	.47	0	.47
Pickens	.20	0	.20	.21	0	.21	.41	0	.41	.41	0	.41
Pike	.26	0	.26	.37	0	.37	.63	0	.63	.63	0	.63
Randolph	.27	0	.27	.31	0	.31	.58	0	.58	.58	0	.58
Russell	.07	0	.07	.10	0	.10	.17	0	.17	.17	0	.17
St. Clair	.17	0	.17	.25	0	.25	.42	0	.42	.42	0	.42
Shelby	.12	0	.12	.19	0	.19	.31	0	.31	.31	0	.31
Sumter	.22	0	.22	.33	0	.33	.55	0	.55	.55	0	.55
Talladega	.18	0	.18	.22	0	.22	.40	0	.40	.40	0	.40
Tallapoosa	.10	0	.10	.13	0	.13	.23	0	.23	.23	0	.23
Tuscaloosa	.13	0	.13	.17	0	.17	.30	0	.30	.30	0	.30
Walker	.10	0	.10	.14	0	.14	.24	0	.24	.24	0	.24
Washington	.13	0	.13	.14	0	.14	.27	0	.27	.27	0	.27
Wilcox	.18	0	.18	.27	0	.27	.45	0	.45	.45	0	.45
Winston	.23	0	.23	.27	0	.27	.50	0	.50	.50	0	.50
Total	15.13	0	15.13	19.74	0	19.74	34.87	0	34.87	34.87	0	34.87

Animal Specialties (Aquaculture)

Withdrawals for aquaculture include water used in the raising and harvesting of fish (primarily catfish) for resale. Compilations of water use for aquaculture in 1995 were calculated using a report by Kidd and Lambeth (1995), which provided new information on the water-use requirements of catfish farmers. Additionally, the OWR reporting requirements for all water users withdrawing more than 0.1 Mgal/d provided much actual data minimizing the need to rely extensively on estimates of water use. These changes in data-collection practices are reflected in the difference in percentages of ground water and surface water withdrawn to fill ponds and in the number of ponds that are filled by surface runoff or rainwater. In previous water-use compilations for Alabama in areas with no records of withdrawals, ponds were assumed to be 4 ft deep and filled by surface-water runoff once per year. Pond acreages for each county for 1995 were obtained from USGS data files and from personal communications with Dr. John Jensen at Auburn University in 1996. To be consistent with the neighboring States of Tennessee and Georgia, consumptive use was considered to be 100 percent. Total withdrawals of water for aquaculture in 1995 were about 93.9 Mgal/d, 92 percent (86.9 Mgal/d) from surface-water sources and 7 percent (6.93 Mgal/d) from ground-water sources (table 8).

Table 8. Withdrawals for livestock (animal specialties) water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d		
	Source and type						Total					
	Ground water			Surface water								
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Autauga	0	0	0	0.11	0	0.11	0.11	0	0.11	0.11	0	0.11
Baldwin	.07	0	.07	0	0	0	.07	0	.07	.07	0	.07
Barbour	.21	0	.21	.79	0	.79	1.00	0	1.00	1.00	0	1.00
Bibb	0	0	0	.72	0	.72	.72	0	.72	.72	0	.72
Blount	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
Bullock	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Butler	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Calhoun	0	0	0	.09	0	.09	.09	0	.09	.09	0	.09
Chambers	0	0	0	.27	0	.27	.27	0	.27	.27	0	.27
Cherokee	0	0	0	.51	0	.51	.51	0	.51	.51	0	.51
Chilton	0	0	0	.36	0	.36	.36	0	.36	.36	0	.36
Choctaw	0	0	0	.72	0	.72	.72	0	.72	.72	0	.72
Clarke	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Clay	0	0	0	.29	0	.29	.29	0	.29	.29	0	.29
Cleburne	0	0	0	.09	0	.09	.09	0	.09	.09	0	.09
Coffee	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Colbert	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Conecuh	0	0	0	0	0	0	0	0	0	0	0	0
Coosa	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
Covington	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Crenshaw	0	0	0	0	0	0	0	0	0	0	0	0
Cullman	0	0	0	.36	0	.36	.36	0	.36	.36	0	.36
Dale	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Dallas	.99	0	.99	7.94	0	7.94	8.93	0	8.93	8.93	0	8.93
DeKalb	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18

Table 8. Withdrawals for livestock (animal specialties) water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d		
	Source and type						Total					
	Ground water			Surface water								
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Elmore	0	0	0	0.27	0	0.27	0.27	0	0.27	0.27	0	0.27
Escambia	0	0	0	.09	0	.09	.09	0	.09	.09	0	.09
Etowah	0	0	0	0	0	0	0	0	0	0	0	0
Fayette	0	0	0	.29	0	.29	.29	0	.29	.29	0	.29
Franklin	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Geneva	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Greene	.60	0	.60	8.33	0	8.33	8.93	0	8.93	8.93	0	8.93
Hale	3.04	0	3.04	32.66	0	32.66	35.70	0	35.70	35.70	0	35.70
Henry	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
Houston	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Jackson	0	0	0	1.25	0	1.25	1.25	0	1.25	1.25	0	1.25
Jefferson	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
Lamar	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Lauderdale	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Lawrence	0	0	0	.80	0	.80	.80	0	.80	.80	0	.80
Lee	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Limestone	0	0	0	0	0	0	0	0	0	0	0	0
Lowndes	0	0	0	0	0	0	0	0	0	0	0	0
Macon	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Madison	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Marengo	.34	0	.34	1.09	0	1.09	1.43	0	1.43	1.43	0	1.43
Marion	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Marshall	0	0	0	0	0	0	0	0	0	0	0	0
Mobile	0	0	0	.36	0	.36	.36	0	.36	.36	0	.36
Monroe	0	0	0	0	0	0	0	0	0	0	0	0
Montgomery	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Morgan	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Perry	1.51	0	1.51	4.56	0	4.56	6.07	0	6.07	6.07	0	6.07
Pickens	0	0	0	.89	0	.89	.89	0	.89	.89	0	.89
Pike	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Randolph	0	0	0	.10	0	.10	.10	0	.10	.10	0	.10
Russell	0	0	0	.25	0	.25	.25	0	.25	.25	0	.25
St. Clair	0	0	0	.09	0	.09	.09	0	.09	.09	0	.09
Shelby	0	0	0	.07	0	.07	.07	0	.07	.07	0	.07
Sumter	0	0	0	6.43	0	6.43	6.43	0	6.43	6.43	0	6.43
Talladega	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
Tallapoosa	0	0	0	.25	0	.25	.25	0	.25	.25	0	.25
Tuscaloosa	.06	0	.06	2.26	0	2.26	2.32	0	2.32	2.32	0	2.32
Walker	0	0	0	.36	0	.36	.36	0	.36	.36	0	.36
Washington	0	0	0	0	0	0	0	0	0	0	0	0
Wilcox	.11	0	.11	1.14	0	1.14	1.25	0	1.25	1.25	0	1.25
Winston	0	0	0	.25	0	.25	.25	0	.25	.25	0	.25
Total	6.93	0	6.93	86.93	0	86.93	93.86	0	93.86	93.86	0	93.86

Irrigation

Irrigation water use includes water used for row crops, sod farms, plant nurseries, golf courses, and hay fields. This compilation is the first for Alabama that has actual withdrawal records for irrigation water use. Irrigators with a combined capacity of more than 0.1 Mgal/d for irrigation purposes are required by OWR to report their withdrawals. Water withdrawals in past compilations were estimated by multiplying the number of acres irrigated by an average application rate (Baker and Mooty, 1993).

In 1995, total withdrawals for irrigation in Alabama were 139 Mgal/d, 63 percent (87.7 Mgal/d) surface water and 36 percent (50.8 Mgal/d) ground water (table 9). Baldwin County had the largest withdrawals for irrigation at 24.9 Mgal/d. Other counties in the State exceeding 5 Mgal/d of withdrawals for irrigation were Barbour, Coffee, Colbert, Etowah, Henry, Houston, Limestone, Lowndes, and Pike. To be consistent with the neighboring States of Tennessee and Georgia, consumptive use was considered to be 100 percent.

Table 9. Withdrawals for irrigation water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d								
	Source and type						Total		
	Ground water			Surface water					
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Autauga	0.35	0	0.35	0	0	0	0.35	0	0.35
Baldwin	20.48	0	20.48	4.45	0	4.45	24.93	0	24.93
Barbour	.72	0	.72	7.32	0	7.32	8.04	0	8.04
Bibb	0	0	0	0	0	0	0	0	0
Blount	0	0	0	.20	0	.20	.20	0	.20
Bullock	0	0	0	1.99	0	1.99	1.99	0	1.99
Butler	0	0	0	0	0	0	0	0	0
Calhoun	.01	0	.01	1.51	0	1.51	1.52	0	1.52
Chambers	0	0	0	.12	0	.12	.12	0	.12
Cherokee	.06	0	.06	3.54	0	3.54	3.60	0	3.60
Chilton	.01	0	.01	0	0	0	.01	0	.01
Choctaw	0	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0	0
Coffee	.13	0	.13	8.16	0	8.16	8.29	0	8.29
Colbert	3.02	0	3.02	2.96	0	2.96	5.98	0	5.98
Conecuh	0	0	0	0	0	0	0	0	0
Coosa	0	0	0	0	0	0	0	0	0
Covington	.06	0	.06	1.02	0	1.02	1.08	0	1.08
Crenshaw	.20	0	.20	.09	0	.09	.29	0	.29
Cullman	0	0	0	0	0	0	0	0	0
Dale	.75	0	.75	1.39	0	1.39	2.14	0	2.14
Dallas	.09	0	.09	.03	0	.03	.12	0	.12
DeKalb	0	0	0	.29	0	.29	.29	0	.29
Elmore	.13	0	.13	.53	0	.53	.66	0	.66
Escambia	2.23	0	2.23	1.83	0	1.83	4.06	0	4.06
Etowah	.07	0	.07	9.08	0	9.08	9.15	0	9.15
Fayette	0	0	0	0	0	0	0	0	0
Franklin	0	0	0	.03	0	.03	.03	0	.03

Table 9. Withdrawals for irrigation water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Water withdrawals, in Mgal/d								
	Source and type						Total		
	Ground water			Surface water					
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
Geneva	0	0	0	0.11	0	0.11	0.11	0	0.11
Greene	0	0	0	0	0	0	0	0	0
Hale	0	0	0	.18	0	.18	.18	0	.18
Henry	.60	0	.60	6.15	0	6.15	6.75	0	6.75
Houston	11.51	0	11.51	2.30	0	2.30	13.81	0	13.81
Jackson	0	0	0	.50	0	.50	.50	0	.50
Jefferson	.75	0	.75	.42	0	.42	1.17	0	1.17
Lamar	0	0	0	0	0	0	0	0	0
Lauderdale	0	0	0	.20	0	.20	.20	0	.20
Lawrence	0	0	0	1.43	0	1.43	1.43	0	1.43
Lee	.04	0	.04	.99	0	.99	1.03	0	1.03
Limestone	.70	0	.70	8.64	0	8.64	9.34	0	9.34
Lowndes	0	0	0	6.27	0	6.27	6.27	0	6.27
Macon	.20	0	.20	1.99	0	1.99	2.19	0	2.19
Madison	.23	0	.23	1.20	0	1.20	1.43	0	1.43
Marengo	0	0	0	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	.05	0	.05	.05	0	.05
Mobile	3.62	0	3.62	1.36	0	1.36	4.98	0	4.98
Monroe	.58	0	.58	.25	0	.25	.83	0	.83
Montgomery	.56	0	.56	.13	0	.13	.69	0	.69
Morgan	0	0	0	.02	0	.02	.02	0	.02
Perry	0	0	0	0	0	0	0	0	0
Pickens	.31	0	.31	1.28	0	1.28	1.59	0	1.59
Pike	1.99	0	1.99	3.88	0	3.88	5.87	0	5.87
Randolph	0	0	0	0	0	0	0	0	0
Russell	0	0	0	.58	0	.58	.58	0	.58
St. Clair	0	0	0	.40	0	.40	.40	0	.40
Shelby	.36	0	.36	1.66	0	1.66	2.02	0	2.02
Sumter	0	0	0	0	0	0	0	0	0
Talladega	.27	0	.27	1.20	0	1.20	1.47	0	1.47
Tallapoosa	0	0	0	.78	0	.78	.78	0	.78
Tuscaloosa	.26	0	.26	.54	0	.54	.80	0	.80
Walker	0	0	0	.36	0	.36	.36	0	.36
Washington	0	0	0	.31	0	.31	.31	0	.31
Wilcox	.52	0	.52	0	0	0	.52	0	.52
Winston	0	0	0	0	0	0	0	0	0
Total	50.81	0	50.81	87.72	0	87.72	138.53	0	138.53

Thermoelectric-Power Generation

Thermoelectric-power generation includes water used for boiler makeup, cooling, and domestic purposes in the generation of electric power with fossil fuel or nuclear energy. Withdrawal data were obtained from OWR files and from the facilities. Power-generation data were obtained from the agencies operating the facilities—the Tennessee Valley Authority, the Alabama Power Company, the Alabama Electric Cooperative, and the U.S. Army Corps of Engineers. The majority of these withdrawals are used for cooling purposes.

There were 11 fossil-fueled powerplants and 2 nuclear plants in operation in Alabama in 1995 (fig. 6). Total withdrawals for thermoelectric-power generation

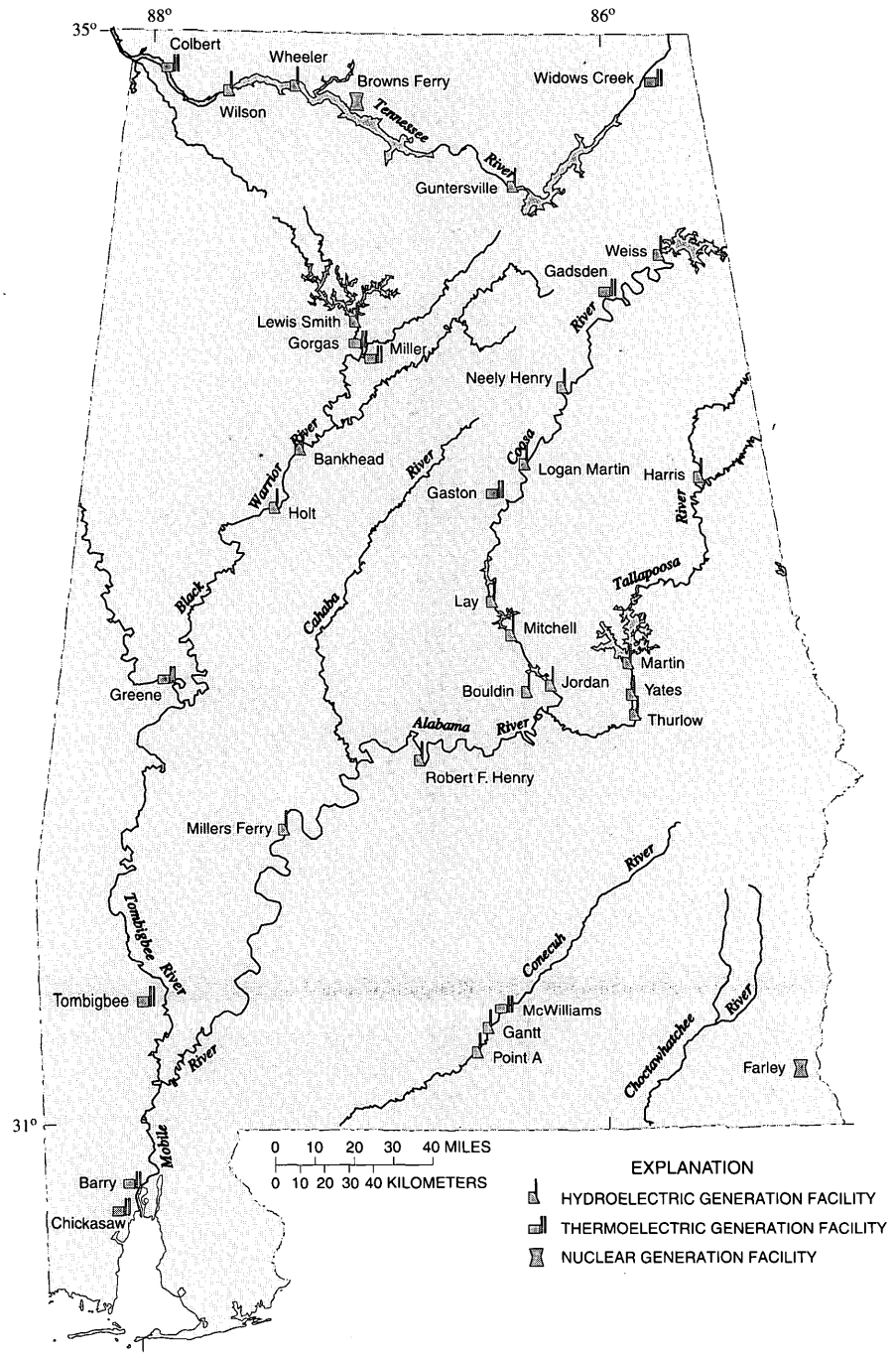

Figure 6. Power-generation facilities in Alabama, 1995.

were about 5,200 Mgal/d (table 10). This, the largest category of offstream water use in Alabama, accounts for 73 percent of total withdrawals (fig. 5). Surface water sources provided all but 6 Mgal/d of the water withdrawn. A relatively small amount of the total water withdrawn, only 32.2 Mgal/d, was consumed (table 11).

Approximately 85,300 gigawatthours (GWh)[1] of power (table 11) were produced by thermoelectric facilities in Alabama in 1995, about 76 percent (64,600 GWh) produced by the 11 fossil-fueled facilities (table 12) and 24 percent (20,700 GWh) by the 2 nuclear facilities (table 13). Fossil-fueled facilities accounted for about 83 percent (4,340 Mgal/d) of the total withdrawals of water for thermoelectric-power generation (table 14) and nuclear-powered facilities the remaining 17 percent (862 Mgal/d) (table 15).

[1]A gigawatthour (GWh) is equal to 1 million kilowatthours (kWh).

Table 10. Withdrawals and deliveries for thermoelectric-power generation, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Autauga	0	0	0	0	0	0	0	0	0	0	0
Baldwin	0	0	0	0	0	0	0	0	0	0	0
Barbour	0	0	0	0	0	0	0	0	0	0	0
Bibb	0	0	0	0	0	0	0	0	0	0	0
Blount	0	0	0	0	0	0	0	0	0	0	0
Bullock	0	0	0	0	0	0	0	0	0	0	0
Butler	0	0	0	0	0	0	0	0	0	0	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0
Chambers	0	0	0	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0	0	0	0
Chilton	0	0	0	0	0	0	0	0	0	0	0
Choctaw	0	0	0	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0	0	0	0
Coffee	0	0	0	0	0	0	0	0	0	0	0
Colbert	0	0	0	18.90	0	18.90	18.90	0	18.90	0	18.90
Conecuh	0	0	0	0	0	0	0	0	0	0	0
Coosa	0	0	0	0	0	0	0	0	0	0	0
Covington	0	0	0	4.81	0	4.81	4.81	0	4.81	0	4.81
Crenshaw	0	0	0	0	0	0	0	0	0	0	0
Cullman	0	0	0	0	0	0	0	0	0	0	0
Dale	0	0	0	0	0	0	0	0	0	0	0
Dallas	0	0	0	0	0	0	0	0	0	0	0
DeKalb	0	0	0	0	0	0	0	0	0	0	0
Elmore	0	0	0	0	0	0	0	0	0	0	0
Escambia	0	0	0	0	0	0	0	0	0	0	0
Etowah	0	0	0	140.00	0	140.00	140.00	0	140.00	0	140.00
Fayette	0	0	0	0	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0	0	0	0	0
Geneva	0	0	0	0	0	0	0	0	0	0	0
Greene	.02	0	.02	310.00	0	310.00	310.02	0	310.02	0	310.02
Hale	0	0	0	0	0	0	0	0	0	0	0
Henry	0	0	0	0	0	0	0	0	0	0	0
Houston	.02	0	.02	85.80	0	85.80	85.82	0	85.82	0	85.82
Jackson	0	0	0	1,286.00	0	1,286.00	1,286.00	0	1,286.00	0	1,286.00
Jefferson	0	0	0	24.78	0	24.78	24.78	0	24.78	0	24.78
Lamar	0	0	0	0	0	0	0	0	0	0	0
Lauderdale	0	0	0	0	0	0	0	0	0	0	0
Lawrence	0	0	0	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0	0	0	0
Limestone	0	0	0	776.00	0	776.00	776.00	0	776.00	0	776.00
Lowndes	0	0	0	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0	0	0	0

Table 10. Withdrawals and deliveries for thermoelectric-power generation, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Marengo	0	0	0	0	0	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0	0
Mobile	5.99	0	5.99	928.98	0	928.98	934.97	0	934.97	0	934.97
Monroe	0	0	0	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0	0	0	0
Morgan	0	0	0	0	0	0	0	0	0	0	0
Perry	0	0	0	0	0	0	0	0	0	0	0
Pickens	0	0	0	0	0	0	0	0	0	0	0
Pike	0	0	0	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0	0	0	0
Russell	0	0	0	0	0	0	0	0	0	0	0
St. Clair	0	0	0	0	0	0	0	0	0	0	0
Shelby	0	0	0	700.02	0	700.02	700.02	0	700.02	0	700.02
Sumter	0	0	0	0	0	0	0	0	0	0	0
Talladega	0	0	0	0	0	0	0	0	0	0	0
Tallapoosa	0	0	0	0	0	0	0	0	0	0	0
Tuscaloosa	0	0	0	0	0	0	0	0	0	0	0
Walker	0	0	0	849.18	0	849.18	849.18	0	849.18	0	849.18
Washington	0	0	0	66.80	0	66.80	66.80	0	66.80	0	66.80
Wilcox	0	0	0	0	0	0	0	0	0	0	0
Winston	0	0	0	0	0	0	0	0	0	0	0
Total	6.03	0	6.03	5,191.27	0	5,191.27	5,197.30	0	5,197.30	0	5,197.30

Table 11. Consumptive water use for generation of thermoelectric power, by county, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
Autauga	0	0	0	0	0
Baldwin	0	0	0	0	0
Barbour	0	0	0	0	0
Bibb	0	0	0	0	0
Blount	0	0	0	0	0
Bullock	0	0	0	0	0
Butler	0	0	0	0	0
Calhoun	0	0	0	0	0
Chambers	0	0	0	0	0
Cherokee	0	0	0	0	0
Chilton	0	0	0	0	0
Choctaw	0	0	0	0	0
Clarke	0	0	0	0	0
Clay	0	0	0	0	0
Cleburne	0	0	0	0	0
Coffee	0	0	0	0	0
Colbert	.10	0	.10	0	7,330.06
Conecuh	0	0	0	0	0
Coosa	0	0	0	0	0
Covington	.02	0	.02	0	9.58
Crenshaw	0	0	0	0	0
Cullman	0	0	0	0	0
Dale	0	0	0	0	0
Dallas	0	0	0	0	0
DeKalb	0	0	0	0	0
Elmore	0	0	0	0	0
Escambia	0	0	0	0	0
Etowah	3.50	0	3.50	0	405.81
Fayette	0	0	0	0	0
Franklin	0	0	0	0	0
Geneva	0	0	0	0	0
Greene	1.50	0	1.50	0	3,430.15
Hale	0	0	0	0	0
Henry	0	0	0	0	0
Houston	.20	0	.20	0	10,831.87
Jackson	1.25	0	1.25	0	9,289.32
Jefferson	10.10	0	10.10	0	18,212.07
Lamar	0	0	0	0	0
Lauderdale	0	0	0	0	0
Lawrence	0	0	0	0	0
Lee	0	0	0	0	0
Limestone	1.50	0	1.50	0	9,906.84
Lowndes	0	0	0	0	0
Macon	0	0	0	0	0
Madison	0	0	0	0	0
Marengo	0	0	0	0	0
Marion	0	0	0	0	0
Marshall	0	0	0	0	0
Mobile	1.00	0	1.00	0	9,835.12
Monroe	0	0	0	0	0

Table 11. Consumptive water use for generation of thermoelectric power, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; kWh, kilowatthours]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
Montgomery	0	0	0	0	0
Morgan	0	0	0	0	0
Perry	0	0	0	0	0
Pickens	0	0	0	0	0
Pike	0	0	0	0	0
Randolph	0	0	0	0	0
Russell	0	0	0	0	0
St. Clair	0	0	0	0	0
Shelby	3.50	0	3.50	0	3,633.06
Sumter	0	0	0	0	0
Talladega	0	0	0	0	0
Tallapoosa	0	0	0	0	0
Tuscaloosa	0	0	0	0	0
Walker	8.49	0	8.49	0	8,853.70
Washington	1.00	0	1.00	0	3,609.51
Wilcox	0	0	0	0	0
Winston	0	0	0	0	0
Total	32.16	0	32.16	0	85,347.09

Table 12. Consumptive water use for generation of fossil fuel thermoelectric power, by county, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
Autauga	0	0	0	0	0
Baldwin	0	0	0	0	0
Barbour	0	0	0	0	0
Bibb	0	0	0	0	0
Blount	0	0	0	0	0
Bullock	0	0	0	0	0
Butler	0	0	0	0	0
Calhoun	0	0	0	0	0
Chambers	0	0	0	0	0
Cherokee	0	0	0	0	0
Chilton	0	0	0	0	0
Choctaw	0	0	0	0	0
Clarke	0	0	0	0	0
Clay	0	0	0	0	0
Cleburne	0	0	0	0	0
Coffee	0	0	0	0	0
Colbert	.10	0	.10	0	7,330.06
Conecuh	0	0	0	0	0
Coosa	0	0	0	0	0
Covington	.02	0	.02	0	9.58
Crenshaw	0	0	0	0	0
Cullman	0	0	0	0	0
Dale	0	0	0	0	0
Dallas	0	0	0	0	0
DeKalb	0	0	0	0	0
Elmore	0	0	0	0	0
Escambia	0	0	0	0	0
Etowah	3.50	0	3.50	0	405.81
Fayette	0	0	0	0	0
Franklin	0	0	0	0	0
Geneva	0	0	0	0	0
Greene	1.50	0	1.50	0	3,430.15
Hale	0	0	0	0	0
Henry	0	0	0	0	0
Houston	0	0	0	0	0
Jackson	1.25	0	1.25	0	9,289.32
Jefferson	10.10	0	10.10	0	18,212.07
Lamar	0	0	0	0	0
Lauderdale	0	0	0	0	0
Lawrence	0	0	0	0	0
Lee	0	0	0	0	0
Limestone	0	0	0	0	0
Lowndes	0	0	0	0	0
Macon	0	0	0	0	0
Madison	0	0	0	0	0
Marengo	0	0	0	0	0
Marion	0	0	0	0	0
Marshall	0	0	0	0	0
Mobile	1.00	0	1.00	0	9,835.12
Monroe	0	0	0	0	0

Table 12. Consumptive water use for generation of fossil fuel thermoelectric power, by county, in Alabama, 1995—Continued

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
Montgomery	0	0	0	0	0
Morgan	0	0	0	0	0
Perry	0	0	0	0	0
Pickens	0	0	0	0	0
Pike	0	0	0	0	0
Randolph	0	0	0	0	0
Russell	0	0	0	0	0
St. Clair	0	0	0	0	0
Shelby	3.50	0	3.50	0	3,633.06
Sumter	0	0	0	0	0
Talladega	0	0	0	0	0
Tallapoosa	0	0	0	0	0
Tuscaloosa	0	0	0	0	0
Walker	8.49	0	8.49	0	8,853.70
Washington	1.00	0	1.00	0	3,609.51
Wilcox	0	0	0	0	0
Winston	0	0	0	0	0
Total	30.46	0	30.46	0	64,608.38

Table 13. Consumptive water use for generation of nuclear thermoelectric power, by county, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
Autauga	0	0	0	0	0
Baldwin	0	0	0	0	0
Barbour	0	0	0	0	0
Bibb	0	0	0	0	0
Blount	0	0	0	0	0
Bullock	0	0	0	0	0
Butler	0	0	0	0	0
Calhoun	0	0	0	0	0
Chambers	0	0	0	0	0
Cherokee	0	0	0	0	0
Chilton	0	0	0	0	0
Choctaw	0	0	0	0	0
Clarke	0	0	0	0	0
Clay	0	0	0	0	0
Cleburne	0	0	0	0	0
Coffee	0	0	0	0	0
Colbert	0	0	0	0	0
Conecuh	0	0	0	0	0
Coosa	0	0	0	0	0
Covington	0	0	0	0	0
Crenshaw	0	0	0	0	0
Cullman	0	0	0	0	0
Dale	0	0	0	0	0
Dallas	0	0	0	0	0
DeKalb	0	0	0	0	0
Elmore	0	0	0	0	0
Escambia	0	0	0	0	0
Etowah	0	0	0	0	0
Fayette	0	0	0	0	0
Franklin	0	0	0	0	0
Geneva	0	0	0	0	0
Greene	0	0	0	0	0
Hale	0	0	0	0	0
Henry	0	0	0	0	0
Houston	.20	0	.20	0	10,831.87
Jackson	0	0	0	0	0
Jefferson	0	0	0	0	0
Lamar	0	0	0	0	0
Lauderdale	0	0	0	0	0
Lawrence	0	0	0	0	0
Lee	0	0	0	0	0
Limestone	1.50	0	1.50	0	9,906.84
Lowndes	0	0	0	0	0
Macon	0	0	0	0	0
Madison	0	0	0	0	0
Marengo	0	0	0	0	0
Marion	0	0	0	0	0
Marshall	0	0	0	0	0
Mobile	0	0	0	0	0
Monroe	0	0	0	0	0

Table 13. Consumptive water use for generation of nuclear thermoelectric power, by county, in Alabama, 1995—Continued

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
Montgomery	0	0	0	0	0
Morgan	0	0	0	0	0
Perry	0	0	0	0	0
Pickens	0	0	0	0	0
Pike	0	0	0	0	0
Randolph	0	0	0	0	0
Russell	0	0	0	0	0
St. Clair	0	0	0	0	0
Shelby	0	0	0	0	0
Sumter	0	0	0	0	0
Talladega	0	0	0	0	0
Tallapoosa	0	0	0	0	0
Tuscaloosa	0	0	0	0	0
Walker	0	0	0	0	0
Washington	0	0	0	0	0
Wilcox	0	0	0	0	0
Winston	0	0	0	0	0
Total	1.70	0	1.70	0	20,738.71

Table 14. Water withdrawals and deliveries for fossil fuel thermoelectric-power generation, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Autauga	0	0	0	0	0	0	0	0	0	0	0
Baldwin	0	0	0	0	0	0	0	0	0	0	0
Barbour	0	0	0	0	0	0	0	0	0	0	0
Bibb	0	0	0	0	0	0	0	0	0	0	0
Blount	0	0	0	0	0	0	0	0	0	0	0
Bullock	0	0	0	0	0	0	0	0	0	0	0
Butler	0	0	0	0	0	0	0	0	0	0	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0
Chambers	0	0	0	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0	0	0	0
Chilton	0	0	0	0	0	0	0	0	0	0	0
Choctaw	0	0	0	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0	0	0	0
Coffee	0	0	0	0	0	0	0	0	0	0	0
Colbert	0	0	0	18.90	0	18.90	18.90	0	18.90	0	18.90
Conecuh	0	0	0	0	0	0	0	0	0	0	0
Coosa	0	0	0	0	0	0	0	0	0	0	0
Covington	0	0	0	4.81	0	4.81	4.81	0	4.81	0	4.81
Crenshaw	0	0	0	0	0	0	0	0	0	0	0
Cullman	0	0	0	0	0	0	0	0	0	0	0
Dale	0	0	0	0	0	0	0	0	0	0	0
Dallas	0	0	0	0	0	0	0	0	0	0	0
DeKalb	0	0	0	0	0	0	0	0	0	0	0
Elmore	0	0	0	0	0	0	0	0	0	0	0
Escambia	0	0	0	0	0	0	0	0	0	0	0
Etowah	0	0	0	140.00	0	140.00	140.00	0	140.00	0	140.00
Fayette	0	0	0	0	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0	0	0	0	0
Geneva	0	0	0	0	0	0	0	0	0	0	0
Greene	.02	0	.02	310.00	0	310.00	310.02	0	310.02	0	310.02
Hale	0	0	0	0	0	0	0	0	0	0	0
Henry	0	0	0	0	0	0	0	0	0	0	0
Houston	0	0	0	0	0	0	0	0	0	0	0
Jackson	0	0	0	1,286.00	0	1,286.00	1,286.00	0	1,286.00	0	1,286.00
Jefferson	0	0	0	24.78	0	24.78	24.78	0	24.78	0	24.78
Lamar	0	0	0	0	0	0	0	0	0	0	0
Lauderdale	0	0	0	0	0	0	0	0	0	0	0
Lawrence	0	0	0	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0	0	0	0
Limestone	0	0	0	0	0	0	0	0	0	0	0
Lowndes	0	0	0	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0	0	0	0

Table 14. Water withdrawals and deliveries for fossil fuel thermoelectric-power generation, by county, in Alabama, 1995—Continued

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Marengo	0	0	0	0	0	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0	0
Mobile	5.99	0	5.99	928.98	0	928.98	934.97	0	934.97	0	934.97
Monroe	0	0	0	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0	0	0	0
Morgan	0	0	0	0	0	0	0	0	0	0	0
Perry	0	0	0	0	0	0	0	0	0	0	0
Pickens	0	0	0	0	0	0	0	0	0	0	0
Pike	0	0	0	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0	0	0	0
Russell	0	0	0	0	0	0	0	0	0	0	0
St. Clair	0	0	0	0	0	0	0	0	0	0	0
Shelby	0	0	0	700.02	0	700.02	700.02	0	700.02	0	700.02
Sumter	0	0	0	0	0	0	0	0	0	0	0
Talladega	0	0	0	0	0	0	0	0	0	0	0
Tallapoosa	0	0	0	0	0	0	0	0	0	0	0
Tuscaloosa	0	0	0	0	0	0	0	0	0	0	0
Walker	0	0	0	849.18	0	849.18	849.18	0	849.18	0	849.18
Washington	0	0	0	66.80	0	66.80	66.80	0	66.80	0	66.80
Wilcox	0	0	0	0	0	0	0	0	0	0	0
Winston	0	0	0	0	0	0	0	0	0	0	0
Total	6.01	0	6.01	4,329.47	0	4,329.47	4,335.48	0	4,335.48	0	4,335.48

Table 15. Water withdrawals and deliveries for nuclear thermoelectric-power generation, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Autauga	0	0	0	0	0	0	0	0	0	0	0
Baldwin	0	0	0	0	0	0	0	0	0	0	0
Barbour	0	0	0	0	0	0	0	0	0	0	0
Bibb	0	0	0	0	0	0	0	0	0	0	0
Blount	0	0	0	0	0	0	0	0	0	0	0
Bullock	0	0	0	0	0	0	0	0	0	0	0
Butler	0	0	0	0	0	0	0	0	0	0	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0
Chambers	0	0	0	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0	0	0	0
Chilton	0	0	0	0	0	0	0	0	0	0	0
Choctaw	0	0	0	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0	0	0	0
Coffee	0	0	0	0	0	0	0	0	0	0	0
Colbert	0	0	0	0	0	0	0	0	0	0	0
Conecuh	0	0	0	0	0	0	0	0	0	0	0
Coosa	0	0	0	0	0	0	0	0	0	0	0
Covington	0	0	0	0	0	0	0	0	0	0	0
Crenshaw	0	0	0	0	0	0	0	0	0	0	0
Cullman	0	0	0	0	0	0	0	0	0	0	0
Dale	0	0	0	0	0	0	0	0	0	0	0
Dallas	0	0	0	0	0	0	0	0	0	0	0
DeKalb	0	0	0	0	0	0	0	0	0	0	0
Elmore	0	0	0	0	0	0	0	0	0	0	0
Escambia	0	0	0	0	0	0	0	0	0	0	0
Etowah	0	0	0	0	0	0	0	0	0	0	0
Fayette	0	0	0	0	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0	0	0	0	0
Geneva	0	0	0	0	0	0	0	0	0	0	0
Greene	0	0	0	0	0	0	0	0	0	0	0
Hale	0	0	0	0	0	0	0	0	0	0	0
Henry	0	0	0	0	0	0	0	0	0	0	0
Houston	.02	0	.02	85.80	0	85.80	85.82	0	85.82	0	85.82
Jackson	0	0	0	0	0	0	0	0	0	0	0
Jefferson	0	0	0	0	0	0	0	0	0	0	0
Lamar	0	0	0	0	0	0	0	0	0	0	0
Lauderdale	0	0	0	0	0	0	0	0	0	0	0
Lawrence	0	0	0	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0	0	0	0
Limestone	0	0	0	776.00	0	776.00	776.00	0	776.00	0	776.00
Lowndes	0	0	0	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0	0	0	0

Table 15. Water withdrawals and deliveries for nuclear thermoelectric-power generation, by county, in Alabama, 1995—Continued

County	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
Marengo	0	0	0	0	0	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0	0
Mobile	0	0	0	0	0	0	0	0	0	0	0
Monroe	0	0	0	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0	0	0	0
Morgan	0	0	0	0	0	0	0	0	0	0	0
Perry	0	0	0	0	0	0	0	0	0	0	0
Pickens	0	0	0	0	0	0	0	0	0	0	0
Pike	0	0	0	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0	0	0	0
Russell	0	0	0	0	0	0	0	0	0	0	0
St. Clair	0	0	0	0	0	0	0	0	0	0	0
Shelby	0	0	0	0	0	0	0	0	0	0	0
Sumter	0	0	0	0	0	0	0	0	0	0	0
Talladega	0	0	0	0	0	0	0	0	0	0	0
Tallapoosa	0	0	0	0	0	0	0	0	0	0	0
Tuscaloosa	0	0	0	0	0	0	0	0	0	0	0
Walker	0	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0	0	0	0
Wilcox	0	0	0	0	0	0	0	0	0	0	0
Winston	0	0	0	0	0	0	0	0	0	0	0
Total	0.02	0	0.02	861.80	0	861.80	861.82	0	861.82	0	861.82

Hydroelectric-Power Generation

Data for this category were obtained from the Alabama Power Company, the Tennessee Valley Authority, the U.S. Army Corps of Engineers, and the Alabama Electric Cooperative. Hydroelectric-power generation is the only instream water use reported in this compilation. The total water used for hydroelectric-power generation in 1995 was more than 157,000 Mgal/d (table 16), as large amounts of water are required to drive the turbines for the generation of electricity. The total power generated by the 20 hydroelectric facilities in Alabama in 1995 was about 9,506 million kWh. Almost no water is consumed during hydroelectric-power generation.

Table 16. Hydroelectric-power water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

County	Instream water use		Offstream surface-water use, in Mgal/d			Power generated, in million kWh		
	Mgal/d	Thousand acre-feet per year	Fresh	Saline	Total	Instream	Offstream	Total
Autauga	7,599.98	8,519.58	0	0	0	244.72	0	244.72
Baldwin	0	0	0	0	0	0	0	0
Barbour	0	0	0	0	0	0	0	0
Bibb	0	0	0	0	0	0	0	0
Blount	0	0	0	0	0	0	0	0
Bullock	0	0	0	0	0	0	0	0
Butler	0	0	0	0	0	0	0	0
Calhoun	5,603.00	6,280.96	0	0	0	198.37	0	198.37
Chambers	0	0	0	0	0	0	0	0
Cherokee	5,470.00	6,131.87	0	0	0	222.88	0	222.88
Chilton	16,420.00	18,406.82	0	0	0	1,106.01	0	1,106.01
Choctaw	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0
Coffee	0	0	0	0	0	0	0	0
Colbert	30,230.20	33,888.05	0	0	0	2,504.56	0	2,504.56
Conecuh	0	0	0	0	0	0	0	0
Coosa	0	0	0	0	0	0	0	0
Covington	954.73	1,070.25	0	0	0	24.85	0	24.85
Crenshaw	0	0	0	0	0	0	0	0
Cullman	0	0	0	0	0	0	0	0
Dale	0	0	0	0	0	0	0	0
Dallas	0	0	0	0	0	0	0	0
DeKalb	0	0	0	0	0	0	0	0
Elmore	16,310.00	18,283.51	0	0	0	1,756.24	0	1,756.24
Escambia	0	0	0	0	0	0	0	0
Etowah	0	0	0	0	0	0	0	0
Fayette	0	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0	0
Geneva	0	0	0	0	0	0	0	0
Greene	0	0	0	0	0	0	0	0
Hale	0	0	0	0	0	0	0	0
Henry	0	0	0	0	0	0	0	0
Houston	0	0	0	0	0	0	0	0

Table 16. Hydroelectric-power water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; kWh, kilowatthours]

County	Instream water use		Offstream surface-water use, in Mgal/d			Power generated, in million kWh		
	Mgal/d	Thousand acre-feet per year	Fresh	Saline	Total	Instream	Offstream	Total
Jackson	0	0	0	0	0	0	0	0
Jefferson	0	0	0	0	0	0	0	0
Lamar	0	0	0	0	0	0	0	0
Lauderdale	0	0	0	0	0	0	0	0
Lawrence	30,505.01	34,196.12	0	0	0	1,288.59	0	1,288.59
Lee	0	0	0	0	0	0	0	0
Limestone	0	0	0	0	0	0	0	0
Lowndes	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Marengo	0	0	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0
Marshall	22,111.90	24,787.44	0	0	0	714.38	0	714.38
Mobile	0	0	0	0	0	0	0	0
Monroe	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Morgan	0	0	0	0	0	0	0	0
Perry	0	0	0	0	0	0	0	0
Pickens	0	0	0	0	0	0	0	0
Pike	0	0	0	0	0	0	0	0
Randolph	1,531.12	1,716.39	0	0	0	186.87	0	186.87
Russell	0	0	0	0	0	0	0	0
St. Clair	6,655.00	7,460.26	0	0	0	373.83	0	373.83
Shelby	0	0	0	0	0	0	0	0
Sumter	0	0	0	0	0	0	0	0
Talladega	0	0	0	0	0	0	0	0
Tallapoosa	0	0	0	0	0	0	0	0
Tuscaloosa	5,804.52	6,506.87	0	0	0	362.67	0	362.67
Walker	1,055.00	1,182.65	0	0	0	252.54	0	252.54
Washington	0	0	0	0	0	0	0	0
Wilcox	7,236.87	8,112.53	0	0	0	269.39	0	269.39
Winston	0	0	0	0	0	0	0	0
Total	157,487.33	176,543.30	0	0	0	9,505.90	0	9,505.90

Wastewater Treatment

Wastewater treatment includes water that is collected, treated, and released by municipal wastewater facilities. Information on wastewater-treatment facility releases was obtained from Alabama Department of Environmental Management and OWR records. Past compilations relied on estimated average releases based on the maximum allowable releases for each facility. For 1995, actual releases for the year were available for most wastewater-treatment facilities in the State. Total releases in 1995 were about 474 Mgal/d from 255 public facilities (table 17).

Table 17. Public wastewater-treatment releases, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Number of public facilities	Total releases, in Mgal/d
Autauga	2	2.39
Baldwin	11	9.21
Barbour	4	1.64
Bibb	1	.42
Blount	3	1.22
Bullock	1	1.42
Butler	2	1.43
Calhoun	6	17.67
Chambers	2	1.94
Cherokee	2	.64
Chilton	3	1.66
Choctaw	1	.25
Clarke	3	1.42
Clay	2	.88
Cleburne	1	.40
Coffee	5	2.99
Colbert	6	4.37
Conecuh	1	.92
Coosa	1	.19
Covington	4	3.16
Crenshaw	3	.48
Cullman	5	3.36
Dale	3	.54
Dallas	3	4.50
DeKalb	5	3.52
Elmore	6	2.02
Escambia	5	4.08
Etowah	6	14.83
Fayette	2	1.55
Franklin	3	1.91
Geneva	4	1.17
Greene	1	.41
Hale	3	1.07
Henry	2	.74
Houston	7	13.47
Jackson	6	5.59
Jefferson	14	118.32
Lamar	3	.60
Lauderdale	1	10.80
Lawrence	3	1.11

Table 17. Public wastewater-treatment releases, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Number of public facilities	Total releases, in Mgal/d
Lee	4	8.06
Limestone	3	6.32
Lowndes	2	.17
Macon	3	2.34
Madison	8	34.31
Marengo	2	2.52
Marion	3	1.30
Marshall	4	6.02
Mobile	10	46.55
Monroe	2	1.73
Montgomery	4	39.54
Morgan	2	22.05
Perry	2	.48
Pickens	5	.65
Pike	2	3.85
Randolph	3	.98
Russell	3	8.54
St. Clair	4	1.70
Shelby	9	6.66
Sumter	5	.65
Talladega	11	6.99
Tallapoosa	4	5.90
Tuscaloosa	2	15.90
Walker	6	5.19
Washington	2	.18
Wilcox	3	.57
Winston	1	.42
Total	255	473.86

Reservoir Evaporation

Reservoir evaporation is the amount of water that evaporates off the surface-water reservoirs and is considered 100 percent consumed. The category of reservoir evaporation is compiled only by hydrologic cataloging units (fig. 2). Total evaporation from the large reservoirs in Alabama (Ruddy and Hitt, 1990) was estimated by using pan-evaporation data from the National Oceanic and Atmospheric Administration (NOAA) weather stations in Alabama nearest each reservoir (U.S. Department of Commerce, 1995). The pan-evaporation rate was multiplied by a factor of 0.7 to take into account differences in evaporation from a water surface as opposed to a land surface. The amount of evaporation, in inches, was then multiplied by the surface area of the reservoir. The total amount of water estimated to have evaporated from the large reservoirs in Alabama in 1995 was about 1,620,000 acre-feet (table 18).

Table 18. Reservoir evaporation, by hydrologic cataloging unit, in Alabama, 1995

Hydrologic unit number (fig. 2)	Hydrologic cataloging unit name	Surface area, in thousands of acres	Reservoir evaporation, in thousand acre-feet
03130002	Middle Chattahoochee - Lake Harding	0	0
03130003	Middle Chattahoochee - Walter E. George Reservoir	48.60	183.00
03130004	Lower Chattahoochee	1.57	5.93
03130012	Chipola	0	0
03140103	Yellow	0	0
03140104	Blackwater	0	0
03140106	Perdido	0	0
03140107	Perdido Bay	0	0
03140201	Upper Choctawhatchee	.64	2.41
03140202	Pea	0	0
03140203	Lower Choctawhatchee	0	0
03140301	Upper Conecuh	3.47	13.15
03140302	Patsaliga	0	0
03140303	Sepulga	0	0
03140304	Lower Conecuh	0	0
03140305	Escambia	0	0
03150105	Upper Coosa	28.30	101.00
03150106	Middle Coosa	26.76	93.45
03150107	Lower Coosa	18.22	62.34
03150108	Upper Tallapoosa	0	0
03150109	Middle Tallapoosa	38.30	131.00
03150110	Lower Tallapoosa	3.34	11.48
03150201	Upper Alabama	12.51	45.40
03150202	Cahaba	1.05	3.66
03150203	Middle Alabama	17.20	62.40
03150204	Lower Alabama	5.93	20.60
03160101	Upper Tombigbee	0	0
03160103	Buttahatchee	0	0
03160105	Luxapallila	0	0
03160106	Middle Tombigbee	14.70	53.00
03160107	Sipsey	0	0
03160108	Noxubee	0	0
03160109	Mulberry	.61	2.18
03160110	Sipsey Fork	21.55	79.47
03160111	Locust	2.08	7.33
03160112	Upper Black Warrior	20.98	78.07
03160113	Lower Black Warrior	7.80	28.30
03160201	Middle Tombigbee	1.00	3.63
03160202	Sucarnoochee	0	0
03160203	Lower Tombigbee	8.50	29.60

Table 18. Reservoir evaporation, by hydrologic cataloging unit, in Alabama, 1995—Continued

Hydrologic unit number (fig. 2)	Hydrologic cataloging unit name	Surface area, in thousands of acres	Reservoir evaporation, in thousand acre-feet
03160204	Mobile-Tensaw	0	0
03160205	Mobile Bay	0	0
03170002	Upper Chickasawhay	0	0
03170003	Lower Chickasawhay	0	0
03170008	Escatawpa	3.90	13.10
03170009	Mississippi Coast	0	0
06020001	Middle Tennessee	0	0
06030001	Guntersville Lake	70.70	252.00
06030002	Wheeler Lake	68.30	252.00
06030003	Upper Elk	0	0
06030004	Lower Elk	0	0
06030005	Pickwick Lake	16.00	59.00
06030006	Bear	8.28	30.94
	Total	450.29	1,624.44

ADDITIONAL DATA

Tables 19–26 (p. 48–63) are additional tables of water-use data compiled by county and category. Tables 27–51 (p. 64–92) are data compiled by hydrologic cataloging unit for the same categories as those compiled by county.

SUMMARY

In 1995, the OWR required all public water suppliers and commercial, industrial, mining, and irrigation water users that withdraw more than 0.1 Mgal/d to report their annual withdrawals. This source of information provided the data from which water-use compilations could be made more accurately for 1995 than for previous years in Alabama.

Total withdrawals of water in Alabama in 1995 were estimated to be about 7,100 Mgal/d, a decrease of about 12 percent from 1990. This decrease occurred despite an increase of about 5 percent in the State's total population during the same period. Surface-water withdrawals accounted for about 94 percent (6,650 Mgal/d) of the total withdrawals in the State. This represents a decrease of about 13 percent from 1990 and is primarily attributable to decreased withdrawals for thermoelectric-power generation. Ground-water withdrawals were estimated to be about 445 Mgal/d, an increase of about 10 percent from 1990. Total withdrawals have increased about 135 percent since 1955; however, because of greater than normal usage for generation of thermoelectric power in 1975, withdrawals peaked in that year.

Total withdrawals in Alabama in 1995 for the nine withdrawal categories were as follows: thermoelectric-power generation, 5,200 Mgal/d; public supply, 812 Mgal/d; self-supplied industrial, 733 Mgal/d; irrigation, 139 Mgal/d; aquaculture, 93.9 Mgal/d; self-supplied domestic, 61.9 Mgal/d; livestock, 34.9 Mgal/d; mining, 20.0 Mgal/d; and self-supplied commercial, 4.88 Mgal/d.

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DATA TABLES

Table 19. Public-supply water deliveries, by county, in Alabama, 1995

[Mgal/d, million gallons per day; gal/d, gallons per day]

County	Type of use, in Mgal/d				Total deliveries, in Mgal/d	Public use and losses, in Mgal/d	Per capita use, in gal/d	Reclaimed wastewater, in Mgal/d
	Domestic deliveries	Commercial deliveries	Industrial deliveries	Thermo-electric power deliveries				
Autauga	3.69	0.47	0.36	0	4.52	0.44	137.40	0
Baldwin	8.84	2.00	.42	0	11.26	.77	181.58	0
Barbour	2.45	1.13	.42	0	4.00	.52	178.52	0
Bibb	1.30	.19	.08	0	1.57	.48	154.83	0
Blount	2.98	.33	.51	0	3.82	45.37	1,543.94	0
Bullock	.72	.23	.61	0	1.56	.23	164.52	0
Butler	1.53	.50	.06	0	2.09	.11	118.34	0
Calhoun	10.40	5.17	1.14	0	16.71	5.68	208.55	0
Chambers	6.26	.27	1.88	0	8.41	-2.57	171.76	0
Cherokee	1.03	.09	.03	0	1.15	.41	104.84	0
Chilton	2.16	.10	.09	0	2.35	1.08	154.37	0
Choctaw	.87	.08	.05	0	1.00	.06	119.64	0
Clarke	1.82	.62	.59	0	3.03	-.47	112.68	0
Clay	.49	.04	.63	0	1.16	.19	202.10	0
Cleburne	.30	.08	.15	0	.53	.14	209.37	0
Coffee	3.65	.97	.09	0	4.71	.66	159.35	0
Colbert	3.94	1.04	.78	0	5.76	1.83	160.36	0
Conecuh	.87	.42	.36	0	1.65	-.11	167.39	0
Coosa	.77	.03	.05	0	.85	-.45	45.30	0
Covington	1.89	1.06	.94	0	3.89	-.22	125.77	0
Crenshaw	1.28	.04	.02	0	1.34	.22	130.65	0
Cullman	10.31	1.36	1.19	0	12.86	1.31	216.77	0
Dale	4.24	.46	.03	0	4.73	.14	146.25	0
Dallas	5.80	.77	1.02	0	7.59	.81	228.57	0
DeKalb	4.59	.63	1.54	0	6.76	-.54	129.15	0
Elmore	5.31	.75	.10	0	6.16	-1.72	87.87	0
Escambia	3.13	.38	.81	0	4.32	.45	210.60	0
Etowah	9.99	.60	5.55	0	16.14	5.14	214.67	0
Fayette	.82	.04	.48	0	1.34	.28	176.28	0
Franklin	1.95	.33	1.03	0	3.31	.04	169.28	0
Geneva	1.15	.18	.01	0	1.34	.36	117.73	0
Greene	.50	.06	.03	0	.59	.13	165.90	0
Hale	1.67	.17	.19	0	2.03	.28	192.98	0
Henry	.86	.23	.15	0	1.24	.24	154.49	0
Houston	10.47	1.68	3.79	0	15.94	1.97	263.69	0
Jackson	4.12	1.02	2.56	0	7.70	.59	183.24	0
Jefferson	63.35	27.08	31.81	0	122.24	-66.29	96.74	0
Lamar	1.36	.04	.98	0	2.38	-.09	204.10	0
Lauderdale	6.24	5.97	.10	0	12.31	1.28	190.74	0
Lawrence	1.88	.20	.05	0	2.13	-.07	91.84	0
Lee	7.88	2.78	1.44	0	12.10	1.05	182.13	0
Limestone	3.15	.10	1.05	0	4.30	-.13	136.77	0
Lowndes	.74	.05	.02	0	.81	.14	113.23	0
Macon	2.78	.51	.15	0	3.44	-.12	176.31	0
Madison	26.67	7.95	5.87	0	40.49	7.93	209.12	0
Marengo	1.46	.24	.39	0	2.09	-.11	123.90	0
Marion	4.00	.17	.84	0	5.01	.19	193.09	0
Marshall	7.27	4.97	3.17	0	15.41	3.42	353.81	0
Mobile	44.00	4.41	100.27	0	148.68	5.59	464.78	0
Monroe	1.75	.68	1.98	0	4.41	.55	249.00	0

Table 19. Public-supply water deliveries, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; gal/d, gallons per day]

County	Type of use, in Mgal/d				Total deliveries, in Mgal/d	Public use and losses, in Mgal/d	Per capita use, in gal/d	Reclaimed wastewater, in Mgal/d
	Domestic deliveries	Commercial deliveries	Industrial deliveries	Thermo-electric power deliveries				
Montgomery ..	22.47	18.32	3.81	0	44.60	10.88	278.30	0
Morgan.....	9.22	8.79	14.72	0	32.73	-3.38	305.54	0
Perry.....	.19	.02	.13	0	.34	.76	272.28	0
Pickens.....	1.37	.27	.27	0	1.91	.81	159.72	0
Pike	2.07	.91	1.02	0	4.00	.25	196.12	0
Randolph.....	.36	.04	.02	0	.42	-.10	74.77	0
Russell	4.44	1.22	2.55	0	8.21	-.59	164.76	0
St. Clair.....	4.64	.83	.56	0	6.03	.75	151.61	0
Shelby	9.04	2.64	.74	0	12.42	1.28	186.80	0
Sumter.....	1.11	.21	.35	0	1.67	.68	180.21	0
Talladega.....	7.30	1.42	2.81	0	11.53	.30	243.47	0
Tallapoosa.....	3.31	.67	5.95	0	9.93	1.24	357.90	0
Tuscaloosa	13.12	6.51	2.54	0	22.17	2.90	180.05	0
Walker.....	6.17	1.01	1.01	0	8.19	43.82	867.27	0
Washington	.68	.11	.11	0	.90	.19	124.29	0
Wilcox.....	1.55	.39	.15	0	2.09	18.46	2,359.36	0
Winston.....	1.59	.16	.52	0	2.27	-1.53	42.80	0
Total.....	383.31	122.19	213.12	0	718.62	93.91	237.10	0

Table 20. Consumptive commercial water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total	
Autauga	0.10	0	0.10	0
Baldwin	.44	0	.44	0
Barbour	.25	0	.25	0
Bibb	.05	0	.05	0
Blount	.07	0	.07	0
Bullock	.05	0	.05	0
Butler	.11	0	.11	0
Calhoun	1.14	0	1.14	0
Chambers	.06	0	.06	0
Cherokee	.02	0	.02	0
Chilton	.02	0	.02	0
Choctaw	.02	0	.02	0
Clarke	.14	0	.14	0
Clay	.01	0	.01	0
Cleburne	.02	0	.02	0
Coffee	.21	0	.21	0
Colbert	.23	0	.23	0
Conecuh	.09	0	.09	0
Coosa	.01	0	.01	0
Covington	.23	0	.23	0
Crenshaw	.01	0	.01	0
Cullman	.30	0	.30	0
Dale	1.11	0	1.11	0
Dallas	.17	0	.17	0
DeKalb	.14	0	.14	0
Elmore	.16	0	.16	0
Escambia	.08	0	.08	0
Etowah	0	0	0	0
Fayette	.01	0	.01	0
Franklin	.07	0	.07	0
Geneva	.04	0	.04	0
Greene	.01	0	.01	0
Hale	.04	0	.04	0
Henry	.05	0	.05	0
Houston	.37	0	.37	0
Jackson	.22	0	.22	0
Jefferson	5.96	0	5.96	0
Lamar	.01	0	.01	0
Lauderdale	1.31	0	1.31	0
Lawrence	.04	0	.04	0
Lee	.61	0	.61	0
Limestone	.02	0	.02	0
Lowndes	.01	0	.01	0
Macon	.12	0	.12	0
Madison	1.75	0	1.75	0
Marengo	.05	0	.05	0
Marion	.04	0	.04	0
Marshall	1.09	0	1.09	0
Mobile	1.00	0	1.00	0
Monroe	.15	0	.15	0

Table 20. Consumptive commercial water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total	
Montgomery	4.03	0	4.03	0
Morgan	1.93	0	1.93	0
Perry	0	0	0	0
Pickens	.06	0	.06	0
Pike	.20	0	.20	0
Randolph	.01	0	.01	0
Russell	.27	0	.27	0
St. Clair	.18	0	.18	0
Shelby	.59	0	.59	0
Sumter	.06	0	.06	0
Talladega	.31	0	.31	0
Tallapoosa	.15	0	.15	0
Tuscaloosa	1.43	0	1.43	0
Walker	.22	0	.22	0
Washington	.02	0	.02	0
Wilcox	.08	0	.08	0
Winston	.04	0	.04	0
Total	27.79	0	27.79	0

Table 21. Consumptive industrial water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total	
Autauga	7.57	0	7.57	0
Baldwin	.10	0	.10	0
Barbour	.67	0	.67	0
Bibb	.02	0	.02	0
Blount	.11	0	.11	0
Bullock	.13	0	.13	0
Butler	.20	0	.20	0
Calhoun	0	0	0	0
Chambers	.83	0	.83	0
Cherokee	.01	0	.01	0
Chilton	.43	0	.43	0
Choctaw	2.91	0	2.91	0
Clarke	4.92	0	4.92	0
Clay	.14	0	.14	0
Cleburne	.27	0	.27	0
Coffee	.47	0	.47	0
Colbert	1.28	0	1.28	0
Conecuh	.08	0	.08	0
Coosa	.01	0	.01	0
Covington	.38	0	.38	0
Crenshaw	.01	0	.01	0
Cullman	1.88	0	1.88	0
Dale	.01	0	.01	0
Dallas	3.12	0	3.12	0
DeKalb	.56	0	.56	0
Elmore	.02	0	.02	0
Escambia	8.54	0	8.54	0
Etowah	11.76	0	11.76	0
Fayette	.11	0	.11	0
Franklin	.23	0	.23	0
Geneva	0	0	0	0
Greene	.01	0	.01	0
Hale	.04	0	.04	0
Henry	.03	0	.03	0
Houston	.83	0	.83	0
Jackson	1.72	0	1.72	0
Jefferson	7.05	0	7.05	0
Lamar	.34	0	.34	0
Lauderdale	.02	0	.02	0
Lawrence	5.09	0	5.09	0
Lee	.77	0	.77	0
Limestone	.23	0	.23	0
Lowndes	0	0	0	0
Macon	.03	0	.03	0
Madison	1.29	0	1.29	0
Marengo	2.78	0	2.78	0
Marion	.19	0	.19	0
Marshall	.84	0	.84	0
Mobile	22.90	0	22.90	0
Monroe	5.78	0	5.78	0

Table 21. Consumptive industrial water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total	
Montgomery	0.98	0	0.98	0
Morgan	2.56	0	2.56	0
Perry	.03	0	.03	0
Pickens	.29	0	.29	0
Pike	.22	0	.22	0
Randolph	.01	0	.01	0
Russell	2.30	0	2.30	0
St. Clair	.12	0	.12	0
Shelby	.16	0	.16	0
Sumter	.08	0	.08	0
Talladega	2.20	0	2.20	0
Tallapoosa	1.31	0	1.31	0
Tuscaloosa	2.45	0	2.45	0
Walker	.22	0	.22	0
Washington	3.90	0	3.90	0
Wilcox	2.73	0	2.73	0
Winston	.11	0	.11	0
Total	116.38	0	116.38	0

Table 22. Consumptive irrigation water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Consumptive use, by type, in Mgal/d			Conveyance loss, in Mgal/d	Irrigated land, by type, in thousands of acres				Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total		Sprinkler	Micro-irrigation	Surface	Total	
Autauga	0.35	0	0.35	0	0.12	0.28	0	0.40	0
Baldwin	24.93	0	24.93	0	9.04	.01	0	9.05	0
Barbour	8.04	0	8.04	0	1.30	0	0	1.30	0
Bibb	0	0	0	0	0	0	0	0	0
Blount	.20	0	.20	0	.02	.02	0	.04	0
Bullock	1.99	0	1.99	0	.80	0	0	.80	0
Butler	0	0	0	0	0	0	0	0	0
Calhoun	1.52	0	1.52	0	.37	0	0	.37	0
Chambers	.12	0	.12	0	.13	0	0	.13	0
Cherokee	3.60	0	3.60	0	1.37	.01	0	1.38	0
Chilton	.01	0	.01	0	.01	0	0	.01	0
Choctaw	0	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0
Cleburne	0	0	0	0	0	0	0	0	0
Coffee	8.29	0	8.29	0	2.92	0	0	2.92	0
Colbert	5.98	0	5.98	0	1.37	0	0	1.37	0
Conecuh	0	0	0	0	0	0	0	0	0
Coosa	0	0	0	0	0	0	0	0	0
Covington	1.08	0	1.08	0	.61	0	0	.61	0
Crenshaw	.29	0	.29	0	.74	0	0	.74	0
Cullman	0	0	0	0	0	0	0	0	0
Dale	2.14	0	2.14	0	.65	0	0	.65	0
Dallas	.12	0	.12	0	.04	0	0	.04	0
DeKalb	.29	0	.29	0	.15	0	0	.15	0
Elmore	.66	0	.66	0	.24	0	.04	.28	0
Escambia	4.06	0	4.06	0	1.52	0	0	1.52	0
Etowah	9.15	0	9.15	0	1.05	0	0	1.05	0
Fayette	0	0	0	0	0	0	0	0	0
Franklin	.03	0	.03	0	.01	0	0	.01	0
Geneva	.11	0	.11	0	.34	0	0	.34	0
Greene	0	0	0	0	0	0	0	0	0
Hale	.18	0	.18	0	.66	0	0	.66	0
Henry	6.75	0	6.75	0	3.34	0	0	3.34	0
Houston	13.81	0	13.81	0	4.36	0	0	4.36	0
Jackson	.50	0	.50	0	.22	0	0	.22	0
Jefferson	1.17	0	1.17	0	.74	0	0	.74	0
Lamar	0	0	0	0	0	0	0	0	0
Lauderdale	.20	0	.20	0	.19	0	0	.19	0
Lawrence	1.43	0	1.43	0	.71	0	0	.71	0
Lee	1.03	0	1.03	0	1.40	.01	0	1.41	0
Limestone	9.34	0	9.34	0	4.11	.06	0	4.17	0
Lowndes	6.27	0	6.27	0	.62	0	0	.62	0
Macon	2.19	0	2.19	0	1.43	0	0	1.43	0
Madison	1.43	0	1.43	0	2.78	0	0	2.78	0
Marengo	0	0	0	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0	0
Marshall	.05	0	.05	0	.31	0	0	.31	0
Mobile	4.98	0	4.98	0	0.92	0.02	0	0.94	0
Monroe	.83	0	.83	0	.64	0	0	.64	0

Table 22. Consumptive irrigation water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Consumptive use, by type, in Mgal/d			Conveyance loss, in Mgal/d	Irrigated land, by type, in thousands of acres				Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total		Sprinkler	Micro-irrigation	Surface	Total	
Montgomery	0.69	0	0.69	0	0.23	0	0	0.23	0
Morgan	.02	0	.02	0	.40	0	0	.40	0
Perry	0	0	0	0	0	0	0	0	0
Pickens	1.59	0	1.59	0	.80	0	0	.80	0
Pike	5.87	0	5.87	0	1.54	0	0	1.54	0
Randolph	0	0	0	0	0	0	0	0	0
Russell	.58	0	.58	0	.10	0	0	.10	0
St. Clair	.40	0	.40	0	.15	0	0	.15	0
Shelby	2.02	0	2.02	0	.90	0	0	.90	0
Sumter	0	0	0	0	0	0	0	0	0
Talladega	1.47	0	1.47	0	.92	0	0	.92	0
Tallapoosa	.78	0	.78	0	.14	0	0	.14	0
Tuscaloosa	.80	0	.80	0	.59	0	0	.59	0
Walker	.36	0	.36	0	.60	0	0	.60	.05
Washington	.31	0	.31	0	.08	0	0	.08	0
Wilcox	.52	0	.52	0	.12	0	0	.12	0
Winston	0	0	0	0	0	0	0	0	0
Total	138.53	0.00	138.53	0.00	51.80	0.41	0.04	52.25	0.05

Table 23. Total ground-water use, by category and county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
Autauga	4.96	0	0	0	0.25	0	1.84	0	0	0	0	0	0.19	0	0.35	0	7.59	0
Baldwin	12.03	0	0	0	4.05	0	.01	0	0	0	0	.24	.44	0	20.48	0	37.01	.24
Barbour	4.52	0	0	0	.09	0	.94	0	0	0	0	0	.39	0	.72	0	6.66	0
Bibb	2.05	0	.02	0	.35	0	0	0	0	0	0	.01	.07	0	0	0	2.49	.01
Blount	2.38	0	0	0	.81	0	0	0	0	0	.01	0	.43	0	0	0	3.63	0
Bullock	1.79	0	0	0	.02	0	0	0	0	0	0	0	.13	0	0	0	1.94	0
Butler	2.20	0	0	0	.24	0	.21	0	0	0	0	0	.15	0	0	0	2.80	0
Calhoun	20.73	0	0	0	.74	0	1.11	0	0	0	0	0	.19	0	.01	0	22.78	0
Chambers	0	0	0	0	.24	0	0	0	0	0	0	0	.12	0	0	0	.36	0
Cherokee	.16	0	0	0	.46	0	0	0	0	0	0	0	.12	0	.06	0	.80	0
Chilton	1.91	0	0	0	.95	0	.49	0	0	0	0	0	.16	0	.01	0	3.52	0
Choctaw	1.06	0	0	0	.54	0	0	0	0	0	.03	1.26	.08	0	0	0	1.71	1.26
Clarke	.98	0	0	0	.39	0	0	0	0	0	0	.36	.06	0	0	0	1.43	.36
Clay	0	0	0	0	.52	0	0	0	0	0	0	0	.21	0	0	0	.73	0
Cleburne	.07	0	0	0	.76	0	.82	0	0	0	0	0	.11	0	0	0	1.76	0
Coffee	5.37	0	0	0	.65	0	.77	0	0	0	0	0	.27	0	.13	0	7.19	0
Colbert	.45	0	0	0	.39	0	1.02	0	0	0	0	0	.18	0	3.02	0	5.06	0
Conecuh	1.54	0	0	0	.36	0	0	0	0	0	0	.01	.12	0	0	0	2.02	.01
Coosa	0	0	0	0	.21	0	0	0	0	0	0	0	.06	0	0	0	.27	0
Covington	3.67	0	0	0	.62	0	.78	0	0	0	0	.01	.29	0	.06	0	5.42	.01
Crenshaw	1.56	0	0	0	.13	0	0	0	0	0	0	0	.22	0	.20	0	2.11	0
Cullman	0	0	0	0	.53	0	0	0	0	0	.12	0	.94	0	0	0	1.59	0
Dale	4.87	0	4.59	0	1.25	0	0	0	0	0	0	0	.15	0	.75	0	11.61	0
Dallas	8.40	0	0	0	.84	0	.36	0	0	0	0	0	1.29	0	.09	0	10.98	0
DeKalb	1.22	0	0	0	.68	0	.99	0	0	0	0	0	.70	0	0	0	3.59	0
Elmore	2.42	0	0	0	.49	0	0	0	0	0	0	0	.19	0	.13	0	3.23	0
Escambia	4.77	0	0	0	1.04	0	1.30	0	0	0	.01	2.19	.10	0	2.23	0	9.45	2.19
Etowah	4.25	0	0	0	.08	0	0	0	0	0	0	0	.24	0	.07	0	4.64	0
Fayette	.04	0	0	0	.66	0	0	0	0	0	.07	.01	.10	0	0	0	.87	.01
Franklin	1.06	0	0	0	.71	0	0	0	0	0	0	0	.28	0	0	0	2.05	0
Geneva	1.70	0	0	0	.77	0	0	0	0	0	0	0	.34	0	0	0	2.81	0
Greene	.72	0	0	0	.43	0	0	0	.02	0	0	0	.72	0	0	0	1.89	0
Hale	2.31	0	0	0	.32	0	0	0	0	0	0	.02	3.33	0	0	0	5.96	.02
Henry	1.48	0	0	0	.46	0	.22	0	0	0	0	0	.16	0	.60	0	2.92	0
Houston	17.91	0	0	0	1.23	0	0	0	.02	0	0	0	.30	0	11.51	0	30.97	0

[1]Includes stock and animal specialties.

Table 23. Total ground-water use, by category and county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
Jackson	0.92	0	0	0	0.37	0	0.02	0	0	0	0	0	0.38	0	0	0	1.69	0
Jefferson	8.97	0	0	0	5.96	0	.23	0	0	0	.53	1.54	.08	0	.75	0	16.52	1.54
Lamar	2.29	0	0	0	.34	0	.54	0	0	0	.29	.13	.09	0	0	0	3.55	.13
Lauderdale	1.08	0	0	0	.93	0	0	0	0	0	0	0	.36	0	0	0	2.37	0
Lawrence	0	0	0	0	.78	0	0	0	0	0	0	0	.31	0	0	0	1.09	0
Lee	1.30	0	0	0	1.64	0	0	0	0	0	0	0	.11	0	.04	0	3.09	0
Limestone	2.62	0	0	0	2.16	0	0	0	0	0	0	0	.26	0	.70	0	5.74	0
Lowndes	.95	0	0	0	.34	0	0	0	0	0	0	0	.39	0	0	0	1.68	0
Macon	.25	0	.06	0	.38	0	0	0	0	0	0	0	.12	0	.20	0	1.01	0
Madison	26.48	0	0	0	2.01	0	0	0	0	0	0	0	.28	0	.23	0	29.00	0
Marengo	1.98	0	0	0	.58	0	1.37	0	0	0	0	0	.67	0	0	0	4.60	0
Marion	.57	0	0	0	.26	0	0	0	0	0	.03	.01	.19	0	0	0	1.05	.01
Marshall	2.52	0	0	0	1.87	0	.63	0	0	0	0	0	.50	0	0	0	5.52	0
Mobile	11.15	0	.14	0	4.91	0	2.63	0	5.99	0	.60	1.10	.22	0	3.62	0	29.26	1.10
Monroe	4.96	0	0	0	.35	0	.27	0	0	0	0	.05	.13	0	.58	0	6.29	.05
Montgomery	32.36	0	.01	0	1.46	0	.01	0	0	0	0	0	.40	0	.56	0	34.80	0
Morgan	0	0	0	0	.82	0	7.84	0	0	0	0	0	.50	0	0	0	9.16	0
Perry	1.10	0	0	0	.65	0	0	0	0	0	0	0	1.71	0	0	0	3.46	0
Pickens	2.72	0	0	0	.29	0	.27	0	0	0	0	.02	.20	0	.31	0	3.79	.02
Pike	4.25	0	0	0	.54	0	0	0	0	0	0	0	.26	0	1.99	0	7.04	0
Randolph	.02	0	0	0	1.20	0	0	0	0	0	0	0	.27	0	0	0	1.49	0
Russell	1.09	0	0	0	.39	0	.09	0	0	0	0	0	.07	0	0	0	1.64	0
St. Clair	6.78	0	0	0	.98	0	0	0	0	0	0	0	.17	0	0	0	7.93	0
Shelby	11.65	0	.06	0	3.76	0	0	0	0	0	0	.09	.12	0	.36	0	15.95	.09
Sumter	.22	0	0	0	.25	0	0	0	0	0	0	0	.22	0	0	0	.69	0
Talladega	5.63	0	0	0	2.11	0	.50	0	0	0	0	0	.18	0	.27	0	8.69	0
Tallapoosa	.01	0	0	0	.64	0	0	0	0	0	0	0	.10	0	0	0	.75	0
Tuscaloosa	0	0	0	0	1.46	0	1.00	0	0	0	.63	1.98	.19	0	.26	0	3.54	1.98
Walker	.29	0	0	0	.73	0	0	0	0	0	.96	.01	.10	0	0	0	2.08	.01
Washington	1.09	0	0	0	.65	0	7.53	0	0	0	0	.02	.13	0	0	0	9.40	.02
Wilcox	.68	0	0	0	.37	0	0	0	0	0	0	0	.29	0	.52	0	1.86	0
Winston	.15	0	0	0	.46	0	0	0	0	0	.70	0	.23	0	0	0	1.54	0
Total	252.66	0	4.88	0	61.90	0	33.79	0	6.03	0	3.98	9.06	22.06	0	50.81	0	436.11	9.06

[1] Includes stock and animal specialties.

Table 24. Total surface-water use, by category and county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
Autauga	0	0	0	0	0	0	32.27	0	0	0	0	0	0.40	0	0	0	32.67	0
Baldwin	0	0	0	0	0	0	0	0	0	0	0	0	.44	0	4.45	0	4.89	0
Barbour	0	0	0	0	0	0	0	0	0	0	0	0	1.05	0	7.32	0	8.37	0
Bibb	0	0	0	0	0	0	0	0	0	0	0	0	.82	0	0	0	.82	0
Blount	46.81	0	0	0	0	0	0	0	0	0	0	0	.65	0	.20	0	47.66	0
Bullock	0	0	0	0	0	0	0	0	0	0	0	0	.91	0	1.99	0	2.90	0
Butler	0	0	0	0	0	0	0	0	0	0	0	0	.93	0	0	0	.93	0
Calhoun	1.66	0	0	0	0	0	0	0	0	0	0	0	.35	0	1.51	0	3.52	0
Chambers	5.84	0	0	0	0	0	5.79	0	0	0	0	0	.45	0	.12	0	12.20	0
Cherokee	1.40	0	0	0	0	0	0	0	0	0	0	0	.69	0	3.54	0	5.63	0
Chilton	1.52	0	0	0	0	0	0	0	0	0	0	0	.60	0	0	0	2.12	0
Choctaw	0	0	0	0	0	0	48.22	0	0	0	0	0	.84	0	0	0	49.06	0
Clarke	1.58	0	0	0	0	0	21.80	0	0	0	0	0	.81	0	0	0	24.19	0
Clay	1.35	0	0	0	0	0	0	0	0	0	0	0	.57	0	0	0	1.92	0
Cleburne	.60	0	0	0	0	0	0	0	0	0	0	0	.22	0	0	0	.82	0
Coffee	0	0	0	0	0	0	0	0	0	0	0	0	.90	0	8.16	0	9.06	0
Colbert	7.14	0	0	0	0	0	56.22	0	18.90	0	0	0	.78	0	2.96	0	86.00	0
Conecuh	0	0	0	0	0	0	0	0	0	0	0	0	.18	0	0	0	.18	0
Coosa	.40	0	0	0	0	0	0	0	0	0	0	0	.26	0	0	0	.66	0
Covington	0	0	0	0	0	0	0	0	4.81	0	0	0	1.11	0	1.02	0	6.94	0
Crenshaw	0	0	0	0	0	0	0	0	0	0	0	0	.31	0	.09	0	.40	0
Cullman	14.17	0	0	0	0	0	2.88	0	0	0	.38	0	1.27	0	0	0	18.70	0
Dale	0	0	0	0	0	0	0	0	0	0	0	0	.75	0	1.39	0	2.14	0
Dallas	0	0	0	0	0	0	37.76	0	0	0	0	0	8.39	0	.03	0	46.18	0
DeKalb	5.00	0	0	0	0	0	0	0	0	0	0	0	.96	0	.29	0	6.25	0
Elmore	2.02	0	0	0	0	0	0	0	0	0	0	0	.51	0	.53	0	3.06	0
Escambia	0	0	0	0	0	0	35.52	0	0	0	0	0	.24	0	1.83	0	37.59	0
Etowah	17.03	0	0	0	0	0	93.46	0	140.00	0	0	0	.30	0	9.08	0	259.87	0
Fayette	1.58	0	0	0	0	0	0	0	0	0	.19	0	.41	0	0	0	2.18	0
Franklin	2.29	0	0	0	0	0	0	0	0	0	0	0	.91	0	.03	0	3.23	0
Geneva	0	0	0	0	0	0	0	0	0	0	0	0	.98	0	.11	0	1.09	0
Greene	0	0	0	0	0	0	0	0	310.00	0	0	0	8.50	0	0	0	318.50	0
Hale	0	0	0	0	0	0	0	0	0	0	0	0	33.01	0	.18	0	33.19	0
Henry	0	0	0	0	0	0	0	0	0	0	0	0	.41	0	6.15	0	6.56	0
Houston	0	0	0	0	0	0	0	0	85.80	0	0	0	.97	0	2.30	0	89.07	0

[1]Includes stock and animal specialties.

Table 24. Total surface-water use, by category and county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
Jackson	7.37	0	0	0	0	0	4.30	0	1,286.00	0	0	0	1.73	0	0.50	0	1,299.90	0
Jefferson	46.98	0	0	0	0	0	0	0	24.78	0	1.58	0	.30	0	.42	0	74.06	0
Lamar	0	0	0	0	0	0	0	0	0	0	0	0	.65	0	0	0	.65	0
Lauderdale	12.51	0	0	0	0	0	0	0	0	0	0	0	1.05	0	.20	0	13.76	0
Lawrence	2.06	0	0	0	0	0	56.34	0	0	0	0	0	1.22	0	1.43	0	61.05	0
Lee	11.85	0	0	0	0	0	2.08	0	0	0	0	0	.88	0	.99	0	15.80	0
Limestone	1.55	0	0	0	0	0	0	0	776.00	0	0	0	.33	0	8.64	0	786.52	0
Lowndes	0	0	0	0	0	0	0	0	0	0	0	0	.58	0	6.27	0	6.85	0
Macon	3.07	0	0	0	0	0	0	0	0	0	0	0	.72	0	1.99	0	5.78	0
Madison	21.94	0	0	0	0	0	.96	0	0	0	0	0	.91	0	1.20	0	25.01	0
Marengo	0	0	0	0	0	0	25.72	0	0	0	0	0	1.59	0	0	0	27.31	0
Marion	4.63	0	0	0	0	0	0	0	0	0	.10	0	.81	0	0	0	5.54	0
Marshall	16.31	0	0	0	0	0	0	0	0	0	0	0	.50	0	.05	0	16.86	0
Mobile	143.12	0	0	0	0	0	1.20	0	928.98	0	0	0	.62	0	1.36	0	1,075.28	0
Monroe	0	0	0	0	0	0	57.07	0	0	0	0	0	.20	0	.25	0	57.52	0
Montgomery	23.12	0	0	0	0	0	.64	0	0	0	0	0	1.29	0	.13	0	25.18	0
Morgan	29.35	0	0	0	0	0	100.44	0	0	0	0	0	1.14	0	.02	0	130.95	0
Perry	0	0	0	0	0	0	0	0	0	0	0	0	4.83	0	0	0	4.83	0
Pickens	0	0	0	0	0	0	0	0	0	0	0	0	1.10	0	1.28	0	2.38	0
Pike	0	0	0	0	0	0	0	0	0	0	0	0	.91	0	3.88	0	4.79	0
Randolph	.30	0	0	0	0	0	0	0	0	0	0	0	.41	0	0	0	.71	0
Russell	6.53	0	0	0	0	0	25.03	0	0	0	0	0	.35	0	.58	0	32.49	0
St. Clair	0	0	0	0	0	0	0	0	0	0	0	0	.34	0	.40	0	.74	0
Shelby	2.05	0	0	0	0	0	0	0	700.02	0	0	0	.26	0	1.66	0	703.99	0
Sumter	2.13	0	0	0	0	0	0	0	0	0	0	0	6.76	0	0	0	8.89	0
Talladega	6.20	0	0	0	0	0	60.19	0	0	0	0	0	.93	0	1.20	0	68.52	0
Tallapoosa	11.16	0	0	0	0	0	0	0	0	0	0	0	.38	0	.78	0	12.32	0
Tuscaloosa	25.07	0	0	0	0	0	1.80	0	0	0	1.88	0	2.43	0	.54	0	31.72	0
Walker	51.72	0	0	0	0	0	0	0	849.18	0	2.87	0	.50	0	.36	0	904.63	0
Washington	0	0	0	0	0	0	9.79	0	66.80	0	0	0	.14	0	.31	0	77.04	0
Wilcox	19.87	0	0	0	0	0	19.87	0	0	0	0	0	1.41	0	0	0	41.15	0
Winston	.59	0	0	0	0	0	0	0	0	0	0	0	.52	0	0	0	1.11	0
Total	559.87	0	0	0	0	0	699.35	0	5,191.27	0	7.00	0	106.67	0	87.72	0	6,651.88	0

[1] Includes stock and animal specialties.

Table 25. Total consumptive water use, by county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Consumptive use, in Mgal/d			Conveyance loss, in Mgal/d	Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total		
Autauga	9.11	0	9.11	0	0
Baldwin	31.01	0	31.01	0	0
Barbour	10.66	0	10.66	0	0
Bibb	1.40	0	1.40	0	0
Blount	2.48	0	2.48	0	0
Bullock	3.28	0	3.28	0	0
Butler	1.74	0	1.74	0	0
Calhoun	4.67	0	4.67	0	0
Chambers	2.26	0	2.26	0	0
Cherokee	4.97	0	4.97	0	0
Chilton	2.32	0	2.32	0	0
Choctaw	4.45	0	4.45	0	0
Clarke	6.45	0	6.45	0	0
Clay	1.48	0	1.48	0	0
Cleburne	1.40	0	1.40	0	0
Coffee	11.04	0	11.04	0	0
Colbert	9.22	0	9.22	0	0
Conecuh	.89	0	.89	0	0
Coosa	.61	0	.61	0	0
Covington	3.86	0	3.86	0	0
Crenshaw	1.06	0	1.06	0	0
Cullman	5.65	0	5.65	0	0
Dale	5.71	0	5.71	0	0
Dallas	14.34	0	14.34	0	0
DeKalb	3.65	0	3.65	0	0
Elmore	2.40	0	2.40	0	0
Escambia	14.28	0	14.28	0	0
Etowah	25.73	0	25.73	0	0
Fayette	1.35	0	1.35	0	0
Franklin	2.37	0	2.37	0	0
Geneva	2.32	0	2.32	0	0
Greene	11.20	0	11.20	0	0
Hale	37.04	0	37.04	0	0
Henry	7.92	0	7.92	0	0
Houston	18.45	0	18.45	0	0
Jackson	6.46	0	6.46	0	0
Jefferson	35.06	0	35.06	0	0
Lamar	1.53	0	1.53	0	0
Lauderdale	4.30	0	4.30	0	0
Lawrence	9.00	0	9.00	0	0
Lee	5.59	0	5.59	0	0
Limestone	14.06	0	14.06	0	0
Lowndes	7.64	0	7.64	0	0
Macon	3.76	0	3.76	0	0
Madison	9.54	0	9.54	0	0
Marengo	5.77	0	5.77	0	0
Marion	1.77	0	1.77	0	0
Marshall	5.36	0	5.36	0	0
Mobile	38.71	0	38.71	0	0
Monroe	7.56	0	7.56	0	0

Table 25. Total consumptive water use, by county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Consumptive use, in Mgal/d			Conveyance loss, in Mgal/d	Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total		
Montgomery	10.43	0	10.43	0	0
Morgan	7.62	0	7.62	0	0
Perry	7.23	0	7.23	0	0
Pickens	3.63	0	3.63	0	0
Pike	8.14	0	8.14	0	0
Randolph	1.93	0	1.93	0	0
Russell	4.27	0	4.27	0	0
St. Clair	2.51	0	2.51	0	0
Shelby	11.05	0	11.05	0	0
Sumter	7.45	0	7.45	0	0
Talladega	7.71	0	7.71	0	0
Tallapoosa	3.59	0	3.59	0	0
Tuscaloosa	9.68	0	9.68	0	0
Walker	11.05	0	11.05	0	.05
Washington	6.19	0	6.19	0	0
Wilcox	5.51	0	5.51	0	0
Winston	1.47	0	1.47	0	0
Total	532.34	0	532.34	0	0.05

Table 26. Total water use, by category and county, in Alabama, 1995

[Mgal/d, million gallons per day]

County	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
Autauga	4.96	0	0	0	0.25	0	34.11	0	0	0	0	0	0.59	0	0.35	0	40.26	0
Baldwin	12.03	0	0	0	4.05	0	.01	0	0	0	0	.24	.88	0	24.93	0	41.90	.24
Barbour	4.52	0	0	0	.09	0	.94	0	0	0	0	0	1.44	0	8.04	0	15.03	0
Bibb	2.05	0	.02	0	.35	0	0	0	0	0	0	.01	.89	0	0	0	3.31	.01
Blount	49.19	0	0	0	.81	0	0	0	0	0	.01	0	1.08	0	.20	0	51.29	0
Bullock	1.79	0	0	0	.02	0	0	0	0	0	0	0	1.04	0	1.99	0	4.84	0
Butler	2.20	0	0	0	.24	0	.21	0	0	0	0	0	1.08	0	0	0	3.73	0
Calhoun	22.39	0	0	0	.74	0	1.11	0	0	0	0	0	.54	0	1.52	0	26.30	0
Chambers	5.84	0	0	0	.24	0	5.79	0	0	0	0	0	.57	0	.12	0	12.56	0
Cherokee	1.56	0	0	0	.46	0	0	0	0	0	0	0	.81	0	3.60	0	6.43	0
Chilton	3.43	0	0	0	.95	0	.49	0	0	0	0	0	.76	0	.01	0	5.64	0
Choctaw	1.06	0	0	0	.54	0	48.22	0	0	0	.03	1.26	.92	0	0	0	50.77	1.26
Clarke	2.56	0	0	0	.39	0	21.80	0	0	0	0	.36	.87	0	0	0	25.62	.36
Clay	1.35	0	0	0	.52	0	0	0	0	0	0	0	.78	0	0	0	2.65	0
Cleburne	.67	0	0	0	.76	0	.82	0	0	0	0	0	.33	0	0	0	2.58	0
Coffee	5.37	0	0	0	.65	0	.77	0	0	0	0	0	1.17	0	8.29	0	16.25	0
Colbert	7.59	0	0	0	.39	0	57.24	0	18.90	0	0	0	.96	0	5.98	0	91.06	0
Conecuh	1.54	0	0	0	.36	0	0	0	0	0	0	.01	.30	0	0	0	2.20	.01
Coosa	.40	0	0	0	.21	0	0	0	0	0	0	0	.32	0	0	0	.93	0
Covington	3.67	0	0	0	.62	0	.78	0	4.81	0	0	.01	1.40	0	1.08	0	12.36	.01
Crenshaw	1.56	0	0	0	.13	0	0	0	0	0	0	0	.53	0	.29	0	2.51	0
Cullman	14.17	0	0	0	.53	0	2.88	0	0	0	.50	0	2.21	0	0	0	20.29	0
Dale	4.87	0	4.59	0	1.25	0	0	0	0	0	0	0	.90	0	2.14	0	13.75	0
Dallas	8.40	0	0	0	.84	0	38.12	0	0	0	0	0	9.68	0	.12	0	57.16	0
DeKalb	6.22	0	0	0	.68	0	.99	0	0	0	0	0	1.66	0	.29	0	9.84	0
Elmore	4.44	0	0	0	.49	0	0	0	0	0	0	0	.70	0	.66	0	6.29	0
Escambia	4.77	0	0	0	1.04	0	36.82	0	0	0	.01	2.19	.34	0	4.06	0	47.04	2.19
Etowah	21.28	0	0	0	.08	0	93.46	0	140.00	0	0	0	.54	0	9.15	0	264.51	0
Fayette	1.62	0	0	0	.66	0	0	0	0	0	.26	.01	.51	0	0	0	3.05	.01
Franklin	3.35	0	0	0	.71	0	0	0	0	0	0	0	1.19	0	.03	0	5.28	0
Geneva	1.70	0	0	0	.77	0	0	0	0	0	0	0	1.32	0	.11	0	3.90	0
Greene	.72	0	0	0	.43	0	0	0	310.02	0	0	0	9.22	0	0	0	320.39	0
Hale	2.31	0	0	0	.32	0	0	0	0	0	0	.02	36.34	0	.18	0	39.15	.02
Henry	1.48	0	0	0	.46	0	.22	0	0	0	0	0	.57	0	6.75	0	9.48	0
Houston	17.91	0	0	0	1.23	0	0	0	85.82	0	0	0	1.27	0	13.81	0	120.04	0

[1]Includes stock and animal specialties.

Table 26. Total water use, by category and county, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

County	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
Jackson	8.29	0	0	0	0.37	0	4.32	0	1,286.00	0	0	0	2.11	0	0.50	0	1,301.59	0
Jefferson	55.95	0	0	0	5.96	0	.23	0	24.78	0	2.11	1.54	.38	0	1.17	0	90.58	1.54
Lamar	2.29	0	0	0	.34	0	.54	0	0	0	.29	.13	.74	0	0	0	4.20	.13
Lauderdale	13.59	0	0	0	.93	0	0	0	0	0	0	0	1.41	0	.20	0	16.13	0
Lawrence	2.06	0	0	0	.78	0	56.34	0	0	0	0	0	1.53	0	1.43	0	62.14	0
Lee	13.15	0	0	0	1.64	0	2.08	0	0	0	0	0	.99	0	1.03	0	18.89	0
Limestone	4.17	0	0	0	2.16	0	0	0	776.00	0	0	0	.59	0	9.34	0	792.26	0
Lowndes	.95	0	0	0	.34	0	0	0	0	0	0	0	.97	0	6.27	0	8.53	0
Macon	3.32	0	.06	0	.38	0	0	0	0	0	0	0	.84	0	2.19	0	6.79	0
Madison	48.42	0	0	0	2.01	0	.96	0	0	0	0	0	1.19	0	1.43	0	54.01	0
Marengo	1.98	0	0	0	.58	0	27.09	0	0	0	0	0	2.26	0	0	0	31.91	0
Marion	5.20	0	0	0	.26	0	0	0	0	0	.13	.01	1.00	0	0	0	6.59	.01
Marshall	18.83	0	0	0	1.87	0	.63	0	0	0	0	0	1.00	0	.05	0	22.38	0
Mobile	154.27	0	.14	0	4.91	0	3.83	0	934.97	0	.60	1.10	.84	0	4.98	0	1,104.54	1.10
Monroe	4.96	0	0	0	.35	0	57.34	0	0	0	0	.05	.33	0	.83	0	63.81	.05
Montgomery	55.48	0	.01	0	1.46	0	.65	0	0	0	0	0	1.69	0	.69	0	59.98	0
Morgan	29.35	0	0	0	.82	0	108.28	0	0	0	0	0	1.64	0	.02	0	140.11	0
Perry	1.10	0	0	0	.65	0	0	0	0	0	0	0	6.54	0	0	0	8.29	0
Pickens	2.72	0	0	0	.29	0	.27	0	0	0	0	.02	1.30	0	1.59	0	6.17	.02
Pike	4.25	0	0	0	.54	0	0	0	0	0	0	0	1.17	0	5.87	0	11.83	0
Randolph	.32	0	0	0	1.20	0	0	0	0	0	0	0	.68	0	0	0	2.20	0
Russell	7.62	0	0	0	.39	0	25.12	0	0	0	0	0	.42	0	.58	0	34.13	0
St. Clair	6.78	0	0	0	.98	0	0	0	0	0	0	0	.51	0	.40	0	8.67	0
Shelby	13.70	0	.06	0	3.76	0	0	0	700.02	0	0	.09	.38	0	2.02	0	719.94	.09
Sumter	2.35	0	0	0	.25	0	0	0	0	0	0	0	6.98	0	0	0	9.58	0
Talladega	11.83	0	0	0	2.11	0	60.69	0	0	0	0	0	1.11	0	1.47	0	77.21	0
Tallapoosa	11.17	0	0	0	.64	0	0	0	0	0	0	0	.48	0	.78	0	13.07	0
Tuscaloosa	25.07	0	0	0	1.46	0	2.80	0	0	0	2.51	1.98	2.62	0	.80	0	35.26	1.98
Walker	52.01	0	0	0	.73	0	0	0	849.18	0	3.83	.01	.60	0	.36	0	906.71	.01
Washington	1.09	0	0	0	.65	0	17.32	0	66.80	0	0	.02	.27	0	.31	0	86.44	.02
Wilcox	20.55	0	0	0	.37	0	19.87	0	0	0	0	0	1.70	0	.52	0	43.01	0
Winston	.74	0	0	0	.46	0	0	0	0	0	.70	0	.75	0	0	0	2.65	0
Total	812.53	0	4.88	0	61.90	0	733.14	0	5,197.30	0	10.98	9.06	128.73	0	138.53	0	7,087.99	9.06

[1] Includes stock and animal specialties.

Table 27. Water withdrawals for public water supply, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Population served, in thousands			Public-supply water withdrawals, in Mgal/d								
				Source and type						Total		
				Ground water			Surface water					
	Ground water	Surface water	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
03130002	0	45.40	45.40	0	0	0	9.22	0	9.22	9.22	0	9.22
03130003	28.82	48.00	76.82	4.48	0	4.48	8.65	0	8.65	13.13	0	13.13
03130004	34.73	0	34.73	8.46	0	8.46	0	0	0	8.46	0	8.46
03130012	16.91	0	16.91	3.93	0	3.93	0	0	0	3.93	0	3.93
03140103	15.94	0	15.94	2.13	0	2.13	0	0	0	2.13	0	2.13
03140104	0	0	0	0	0	0	0	0	0	0	0	0
03140106	18.00	0	18.00	2.91	0	2.91	0	0	0	2.91	0	2.91
03140107	14.15	0	14.15	4.68	0	4.68	0	0	0	4.68	0	4.68
03140201	92.60	0	92.60	17.36	0	17.36	0	0	0	17.36	0	17.36
03140202	38.65	0	38.65	5.49	0	5.49	0	0	0	5.49	0	5.49
03140203	3.03	0	3.03	.36	0	.36	0	0	0	.36	0	.36
03140301	30.58	0	30.58	4.50	0	4.50	0	0	0	4.50	0	4.50
03140302	7.68	0	7.68	1.02	0	1.02	0	0	0	1.02	0	1.02
03140303	19.73	0	19.73	2.36	0	2.36	0	0	0	2.36	0	2.36
03140304	16.96	0	16.96	3.37	0	3.37	0	0	0	3.37	0	3.37
03140305	13.00	0	13.00	2.11	0	2.11	0	0	0	2.11	0	2.11
03150105	3.74	26.69	30.43	.34	0	.34	2.73	0	2.73	3.07	0	3.07
03150106	175.00	118.63	293.63	36.38	0	36.38	27.20	0	27.20	63.58	0	63.58
03150107	42.30	42.30	84.60	7.60	0	7.60	8.31	0	8.31	15.91	0	15.91
03150108	.47	5.16	5.63	.06	0	.06	.89	0	.89	.95	0	.95
03150109	.10	36.42	36.52	.01	0	.01	13.51	0	13.51	13.52	0	13.52
03150110	34.18	63.18	97.36	3.63	0	3.63	13.44	0	13.44	17.07	0	17.07
03150201	194.56	90.00	284.56	47.85	0	47.85	24.12	0	24.12	71.97	0	71.97
03150202	103.89	184.43	288.32	16.46	0	16.46	47.67	0	47.67	64.13	0	64.13
03150203	13.55	5.30	18.85	1.57	0	1.57	0	0	0	1.57	0	1.57
03150204	16.96	0	16.96	4.52	0	4.52	0	0	0	4.52	0	4.52
03160101	3.47	0	3.47	.44	0	.44	0	0	0	.44	0	.44
03160103	6.12	12.33	18.45	.50	0	.50	1.83	0	1.83	2.33	0	2.33
03160105	10.13	5.09	15.22	2.25	0	2.25	.46	0	.46	2.71	0	2.71
03160106	17.54	4.05	21.59	2.77	0	2.77	0	0	0	2.77	0	2.77
03160107	1.67	5.94	7.61	.21	0	.21	1.27	0	1.27	1.48	0	1.48
03160108	0	0	0	0	0	0	0	0	0	0	0	0
03160109	6.24	107.51	113.75	.74	0	.74	68.09	0	68.09	68.83	0	68.83
03160110	.39	28.36	28.75	.15	0	.15	2.99	0	2.99	3.14	0	3.14
03160111	16.04	238.12	254.16	4.54	0	4.54	53.02	0	53.02	57.56	0	57.56
03160112	28.88	201.46	230.34	.43	0	.43	26.38	0	26.38	26.81	0	26.81
03160113	21.52	59.30	80.82	4.36	0	4.36	0	0	0	4.36	0	4.36
03160201	19.26	0	19.26	2.20	0	2.20	0	0	0	2.20	0	2.20
03160202	1.40	7.59	8.99	.22	0	.22	2.13	0	2.13	2.35	0	2.35
03160203	14.50	12.11	26.61	2.03	0	2.03	1.58	0	1.58	3.61	0	3.61
03160204	49.36	137.25	186.61	6.44	0	6.44	4.49	0	4.49	10.93	0	10.93
03160205	61.26	101.85	163.11	7.01	0	7.01	0	0	0	7.01	0	7.01
03170002	0	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0	0
03170008	13.45	0	13.45	2.34	0	2.34	138.63	0	138.63	140.97	0	140.97
03170009	8.28	0	8.28	1.02	0	1.02	0	0	0	1.02	0	1.02
06020001	0	0	0	0	0	0	0	0	0	0	0	0
06030001	8.99	80.93	89.92	1.98	0	1.98	17.94	0	17.94	19.92	0	19.92
06030002	149.66	220.79	370.45	29.57	0	29.57	57.98	0	57.98	87.55	0	87.55
06030003	0	0	0	0	0	0	0	0	0	0	0	0
06030004	.93	0	.93	.12	0	.12	0	0	0	.12	0	.12
06030005	6.90	130.00	136.90	1.16	0	1.16	22.71	0	22.71	23.87	0	23.87
06030006	3.30	23.90	27.20	.60	0	.60	4.63	0	4.63	5.23	0	5.23
Total.....	1,384.82	2,042.09	3,426.91	252.66	0	252.66	559.87	0	559.87	812.53	0	812.53

Table 28. Public-supply water deliveries, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; gal/d, gallons per day]

Hydrologic unit (fig. 2)	Type of use, in Mgal/d				Total deliveries, in Mgal/d	Public use and losses, in Mgal/d	Per capita use, in gal/d	Reclaimed wastewater, in Mgal/d
	Domestic deliveries	Commercial deliveries	Industrial deliveries	Thermo-electric power deliveries				
03130002	7.50	0.79	2.86	0	11.15	-1.93	203.08	0
03130003	7.37	2.21	2.00	0	11.58	1.55	170.92	0
03130004	4.92	.86	2.05	0	7.83	.63	243.59	0
03130012	2.40	.34	1.89	0	4.63	-.70	232.41	0
03140103	1.05	.32	.94	0	2.31	-.18	133.63	0
03140104	0	0	0	0	0	0	0	0
03140106	2.14	.25	.42	0	2.81	.10	161.67	0
03140107	2.64	1.50	0	0	4.14	.54	330.74	0
03140201	11.92	2.16	.13	0	14.21	3.15	187.47	0
03140202	3.38	.95	.52	0	4.85	.64	142.04	0
03140203	.24	.03	0	0	.27	.09	118.81	0
03140301	2.39	.67	.81	0	3.87	.63	147.16	0
03140302	.85	.05	.02	0	.92	.10	132.81	0
03140303	1.62	.51	.06	0	2.19	.17	119.61	0
03140304	2.11	.32	.86	0	3.29	.08	198.70	0
03140305	1.45	.17	.30	0	1.92	.19	162.31	0
03150105	2.08	.27	.04	0	2.39	.68	100.89	0
03150106	30.96	10.12	11.60	0	52.68	10.90	216.53	0
03150107	12.48	1.35	1.88	0	15.71	.20	188.06	0
03150108	.53	.05	.16	0	.74	.21	168.74	0
03150109	3.66	.75	5.64	0	10.05	3.47	370.21	0
03150110	11.53	3.02	1.89	0	16.44	.63	175.33	0
03150201	31.92	19.30	5.30	0	56.52	15.45	252.92	0
03150202	32.04	12.96	7.26	0	52.26	11.87	222.43	0
03150203	2.36	.58	.28	0	3.22	-1.65	83.29	0
03150204	1.38	.66	1.98	0	4.02	.50	266.51	0
03160101	.29	.06	0	0	.35	.09	126.80	0
03160103	.06	.11	.42	0	.59	1.74	126.29	0
03160105	1.64	.13	.98	0	2.75	-.04	178.06	0
03160106	1.42	.27	.27	0	1.96	.81	128.30	0
03160107	.72	.05	.48	0	1.25	.23	194.48	0
03160108	0	0	0	0	0	0	0	0
03160109	16.02	1.43	2.20	0	19.65	49.18	605.10	0
03160110	5.07	.61	.52	0	6.20	-3.06	109.22	0
03160111	28.11	11.46	14.10	0	53.67	3.89	226.47	0
03160112	22.73	9.84	13.00	0	45.57	-18.76	116.39	0
03160113	7.58	3.24	2.22	0	13.04	-8.68	53.95	0
03160201	1.83	.26	.44	0	2.53	-.33	114.23	0
03160202	1.11	.21	.36	0	1.68	.67	261.40	0
03160203	2.07	.55	.70	0	3.32	.29	135.66	0
03160204	24.02	2.42	95.20	0	121.64	-110.71	58.57	0
03160205	22.52	1.75	4.50	0	28.77	-21.76	42.98	0
03170002	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0
03170008	1.49	.54	0	0	2.03	138.94	1,0481.04	0
03170009	.81	.05	.50	0	1.36	-.34	123.19	0
06020001	0	0	0	0	0	0	0	0
06030001	8.36	4.52	4.56	0	17.44	2.48	221.53	0
06030002	40.45	17.12	21.40	0	78.97	8.58	236.33	0
06030003	0	0	0	0	0	0	0	0
06030004	.08	0	0	0	.08	.04	129.03	0
06030005	11.82	7.02	.93	0	19.77	4.10	174.36	0
06030006	4.19	.36	1.45	0	6.00	-.77	192.28	0
Total	383.31	122.19	213.12	0	718.62	93.91	237.10	0

Table 29. Domestic water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; gal/d, gallons per day]

Hydrologic unit (fig. 2)	Self-supplied population, in thousands	Self supplied										Public supply			Total use			
		Water withdrawals, in Mgal/d																
		Source and type																
		Ground water			Surface water			Total			Per capita use, in gal/d	Population served, in thousands	Water deliveries, in Mgal/d	Per capita use, in gal/d	With-drawals and deliveries, in Mgal/d	Consumptive use, in Mgal/d		
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total						Fresh	Saline	Total
03130002	6.64	0.50	0	0.50	0	0	0	0.50	0	0.50	75.30	45.40	7.50	165.20	8.00	1.02	0	1.02
03130003	10.34	.78	0	.78	0	0	0	.78	0	.78	75.44	76.82	7.37	95.94	8.15	1.30	0	1.30
03130004	1.75	.13	0	.13	0	0	0	.13	0	.13	74.29	34.73	4.92	141.66	5.05	.47	0	.47
03130012	8.01	.60	0	.60	0	0	0	.60	0	.60	74.91	16.91	2.40	141.93	3.00	.77	0	.77
03140103	1.51	.11	0	.11	0	0	0	.11	0	.11	72.85	15.94	1.05	65.87	1.16	.18	0	.18
03140104	.73	.05	0	.05	0	0	0	.05	0	.05	68.49	0	0	0	.05	.05	0	.05
03140106	8.79	.66	0	.66	0	0	0	.66	0	.66	75.09	18.00	2.14	118.89	2.80	.81	0	.81
03140107	2.53	.19	0	.19	0	0	0	.19	0	.19	75.10	14.15	2.64	186.57	2.83	.37	0	.37
03140201	43.65	3.26	0	3.26	0	0	0	3.26	0	3.26	74.68	92.60	11.92	128.73	15.18	4.09	0	4.09
03140202	11.73	.88	0	.88	0	0	0	.88	0	.88	75.02	38.65	3.38	87.45	4.26	1.12	0	1.12
03140203	.89	.07	0	.07	0	0	0	.07	0	.07	78.65	3.03	.24	79.21	.31	.09	0	.09
03140301	.41	.03	0	.03	0	0	0	.03	0	.03	73.17	30.58	2.39	78.16	2.42	.20	0	.20
03140302	3.00	.22	0	.22	0	0	0	.22	0	.22	73.33	7.68	.85	110.68	1.07	.28	0	.28
03140303	6.54	.49	0	.49	0	0	0	.49	0	.49	74.92	19.73	1.62	82.11	2.11	.60	0	.60
03140304	9.22	.69	0	.69	0	0	0	.69	0	.69	74.84	16.96	2.11	124.41	2.80	.84	0	.84
03140305	7.31	.55	0	.55	0	0	0	.55	0	.55	75.24	13.00	1.45	111.54	2.00	.65	0	.65
03150105	5.87	.44	0	.44	0	0	0	.44	0	.44	74.96	30.43	2.08	68.35	2.52	.59	0	.59
03150106	19.39	1.45	0	1.45	0	0	0	1.45	0	1.45	74.78	293.63	30.96	105.44	32.41	3.62	0	3.62
03150107	26.47	1.99	0	1.99	0	0	0	1.99	0	1.99	75.18	84.60	12.48	147.52	14.47	2.86	0	2.86
03150108	16.48	1.24	0	1.24	0	0	0	1.24	0	1.24	75.24	5.63	.53	94.14	1.77	1.28	0	1.28
03150109	25.32	1.90	0	1.90	0	0	0	1.90	0	1.90	75.04	36.52	3.66	100.22	5.56	2.16	0	2.16
03150110	33.30	2.49	0	2.49	0	0	0	2.49	0	2.49	74.77	97.36	11.53	118.43	14.02	3.30	0	3.30
03150201	31.97	2.40	0	2.40	0	0	0	2.40	0	2.40	75.07	284.56	31.92	112.17	34.32	4.63	0	4.63
03150202	15.75	1.18	0	1.18	0	0	0	1.18	0	1.18	74.92	288.32	32.04	111.13	33.22	3.42	0	3.42
03150203	16.11	1.21	0	1.21	0	0	0	1.21	0	1.21	75.11	18.85	2.36	125.20	3.57	1.38	0	1.38
03150204	7.59	.57	0	.57	0	0	0	.57	0	.57	75.10	16.96	1.38	81.37	1.95	.67	0	.67
03160101	.48	.04	0	.04	0	0	0	.04	0	.04	83.33	3.47	.29	83.57	.33	.06	0	.06
03160103	4.90	.37	0	.37	0	0	0	.37	0	.37	75.51	18.45	.06	3.25	.43	.37	0	.37
03160105	4.61	.35	0	.35	0	0	0	.35	0	.35	75.92	15.22	1.64	107.75	1.99	.46	0	.46
03160106	6.69	.50	0	.50	0	0	0	.50	0	.50	74.74	21.59	1.42	65.77	1.92	.60	0	.60
03160107	9.84	.74	0	.74	0	0	0	.74	0	.74	75.20	7.61	.72	94.61	1.46	.79	0	.79
03160108	1.26	.09	0	.09	0	0	0	.09	0	.09	71.43	0	0	0	.09	.09	0	.09
03160109	13.16	.99	0	.99	0	0	0	.99	0	.99	75.23	113.75	16.02	140.84	17.01	2.11	0	2.11
03160110	15.61	1.17	0	1.17	0	0	0	1.17	0	1.17	74.95	28.75	5.07	176.35	6.24	1.52	0	1.52
03160111	78.41	5.87	0	5.87	0	0	0	5.87	0	5.87	74.86	254.16	28.11	110.60	33.98	7.84	0	7.84

Table 29. Domestic water use, by hydrologic cataloging unit, in Alabama, 1995—Continued

[Mgal/d, million gallons per day; gal/d, gallons per day]

Hydrologic unit (fig. 2)	Self-supplied population, in thousands	Self supplied										Public supply			Total use			
		Water withdrawals, in Mgal/d									Per capita use, in gal/d	Population served, in thousands	Water deliveries, in Mgal/d	Per capita use, in gal/d	With-drawals and deliveries, in Mgal/d	Consumptive use, in Mgal/d		
		Source and type						Total										
		Ground water			Surface water													
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total						Fresh	Saline	Total
03160112	64.25	4.81	0	4.81	0	0	0	4.81	0	4.81	74.86	230.34	22.73	98.68	27.54	6.40	0	6.40
03160113	21.93	1.64	0	1.64	0	0	0	1.64	0	1.64	74.78	80.82	7.58	93.79	9.22	2.17	0	2.17
03160201	18.45	1.38	0	1.38	0	0	0	1.38	0	1.38	74.80	19.26	1.83	95.02	3.21	1.51	0	1.51
03160202	1.01	.08	0	.08	0	0	0	.08	0	.08	79.21	8.99	1.11	123.47	1.19	.17	0	.17
03160203	9.96	.75	0	.75	0	0	0	.75	0	.75	75.30	26.61	2.07	77.79	2.82	.89	0	.89
03160204	27.12	2.03	0	2.03	0	0	0	2.03	0	2.03	74.85	186.61	24.02	128.72	26.05	3.71	0	3.71
03160205	40.47	3.03	0	3.03	0	0	0	3.03	0	3.03	74.87	163.11	22.52	138.07	25.55	4.61	0	4.61
03170002	.74	.06	0	.06	0	0	0	.06	0	.06	81.08	0	0	0	.06	.06	0	.06
03170003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03170008	34.80	2.60	0	2.60	0	0	0	2.60	0	2.60	74.71	13.45	1.49	110.78	4.09	2.70	0	2.70
03170009	3.32	.25	0	.25	0	0	0	.25	0	.25	75.30	8.28	.81	97.83	1.06	.31	0	.31
06020001	1.19	.09	0	.09	0	0	0	.09	0	.09	75.63	0	0	0	.09	.09	0	.09
06030001	35.88	2.68	0	2.68	0	0	0	2.68	0	2.68	74.69	89.92	8.36	92.97	11.04	3.27	0	3.27
06030002	80.53	6.03	0	6.03	0	0	0	6.03	0	6.03	74.88	370.45	40.45	109.19	46.48	8.87	0	8.87
06030003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06030004	13.68	1.03	0	1.03	0	0	0	1.03	0	1.03	75.29	.93	.08	86.02	1.11	1.04	0	1.04
06030005	12.13	.91	0	.91	0	0	0	.91	0	.91	75.02	136.90	11.82	86.34	12.73	1.74	0	1.74
06030006	4.35	.33	0	.33	0	0	0	.33	0	.33	75.86	27.20	4.19	154.04	4.52	.62	0	.62
Total.....	826.07	61.90	0	61.90	0	0	0	61.90	0	61.90	74.93	3,426.91	383.31	111.85	445.21	88.75	0	88.75

Table 30. Self-supplied withdrawals and public-supply deliveries for commercial water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
03130002	0	0	0	0	0	0	0	0	0	0.79	0.79
03130003	0	0	0	0	0	0	0	0	0	2.21	2.21
03130004	0	0	0	0	0	0	0	0	0	.86	.86
03130012	0	0	0	0	0	0	0	0	0	.34	.34
03140103	0	0	0	0	0	0	0	0	0	.32	.32
03140104	0	0	0	0	0	0	0	0	0	0	0
03140106	0	0	0	0	0	0	0	0	0	.25	.25
03140107	0	0	0	0	0	0	0	0	0	1.50	1.50
03140201	4.59	0	4.59	0	0	0	4.59	0	4.59	2.16	6.75
03140202	0	0	0	0	0	0	0	0	0	.95	.95
03140203	0	0	0	0	0	0	0	0	0	.03	.03
03140301	0	0	0	0	0	0	0	0	0	.67	.67
03140302	0	0	0	0	0	0	0	0	0	.05	.05
03140303	0	0	0	0	0	0	0	0	0	.51	.51
03140304	0	0	0	0	0	0	0	0	0	.32	.32
03140305	0	0	0	0	0	0	0	0	0	.17	.17
03150105	0	0	0	0	0	0	0	0	0	.27	.27
03150106	0	0	0	0	0	0	0	0	0	10.12	10.12
03150107	0	0	0	0	0	0	0	0	0	1.35	1.35
03150108	0	0	0	0	0	0	0	0	0	.05	.05
03150109	0	0	0	0	0	0	0	0	0	.75	.75
03150110	.06	0	.06	0	0	0	.06	0	.06	3.02	3.08
03150201	.01	0	.01	0	0	0	.01	0	.01	19.30	19.31
03150202	.08	0	.08	0	0	0	.08	0	.08	12.96	13.04
03150203	0	0	0	0	0	0	0	0	0	.58	.58
03150204	0	0	0	0	0	0	0	0	0	.66	.66
03160101	0	0	0	0	0	0	0	0	0	.06	.06
03160103	0	0	0	0	0	0	0	0	0	.11	.11
03160105	0	0	0	0	0	0	0	0	0	.13	.13
03160106	0	0	0	0	0	0	0	0	0	.27	.27
03160107	0	0	0	0	0	0	0	0	0	.05	.05
03160108	0	0	0	0	0	0	0	0	0	0	0
03160109	0	0	0	0	0	0	0	0	0	1.43	1.43
03160110	0	0	0	0	0	0	0	0	0	.61	.61
03160111	0	0	0	0	0	0	0	0	0	11.46	11.46
03160112	0	0	0	0	0	0	0	0	0	9.84	9.84
03160113	0	0	0	0	0	0	0	0	0	3.24	3.24
03160201	0	0	0	0	0	0	0	0	0	.26	.26
03160202	0	0	0	0	0	0	0	0	0	.21	.21
03160203	0	0	0	0	0	0	0	0	0	.55	.55
03160204	.14	0	.14	0	0	0	.14	0	.14	2.42	2.56
03160205	0	0	0	0	0	0	0	0	0	1.75	1.75
03170002	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0
03170008	0	0	0	0	0	0	0	0	0	.54	.54
03170009	0	0	0	0	0	0	0	0	0	.05	.05
06020001	0	0	0	0	0	0	0	0	0	0	0
06030001	0	0	0	0	0	0	0	0	0	4.52	4.52
06030002	0	0	0	0	0	0	0	0	0	17.12	17.12
06030003	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0
06030005	0	0	0	0	0	0	0	0	0	7.02	7.02
06030006	0	0	0	0	0	0	0	0	0	.36	.36
Total.....	4.88	0	4.88	0	0	0	4.88	0	4.88	122.19	127.07

Table 31. Consumptive commercial water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total	
03130002	0.17	0	0.17	0
03130003	.48	0	.48	0
03130004	.19	0	.19	0
03130012	.08	0	.08	0
03140103	.07	0	.07	0
03140104	0	0	0	0
03140106	.05	0	.05	0
03140107	.33	0	.33	0
03140201	1.47	0	1.47	0
03140202	.21	0	.21	0
03140203	.01	0	.01	0
03140301	.15	0	.15	0
03140302	.01	0	.01	0
03140303	.11	0	.11	0
03140304	.07	0	.07	0
03140305	.04	0	.04	0
03150105	.06	0	.06	0
03150106	2.21	0	2.21	0
03150107	.29	0	.29	0
03150108	.01	0	.01	0
03150109	.17	0	.17	0
03150110	.68	0	.68	0
03150201	4.23	0	4.23	0
03150202	2.85	0	2.85	0
03150203	.13	0	.13	0
03150204	.15	0	.15	0
03160101	.01	0	.01	0
03160103	.02	0	.02	0
03160105	.03	0	.03	0
03160106	.05	0	.05	0
03160107	.01	0	.01	0
03160108	0	0	0	0
03160109	.31	0	.31	0
03160110	.13	0	.13	0
03160111	2.50	0	2.50	0
03160112	2.15	0	2.15	0
03160113	.71	0	.71	0
03160201	.06	0	.06	0
03160202	.04	0	.04	0
03160203	.12	0	.12	0
03160204	.56	0	.56	0
03160205	.38	0	.38	0
03170002	0	0	0	0
03170003	0	0	0	0
03170008	.12	0	.12	0
03170009	.01	0	.01	0
06020001	0	0	0	0
06030001	1.00	0	1.00	0
06030002	3.75	0	3.75	0
06030003	0	0	0	0
06030004	0	0	0	0
06030005	1.53	0	1.53	0
06030006	.08	0	.08	0
Total.....	27.79	0	27.79	0

Table 32. Self-supplied withdrawals and public-supply deliveries for industrial water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
03130002	0	0	0	5.79	0	5.79	5.79	0	5.79	2.86	8.65
03130003	1.03	0	1.03	25.03	0	25.03	26.06	0	26.06	2.00	28.06
03130004	.22	0	.22	0	0	0	.22	0	.22	2.05	2.27
03130012	0	0	0	0	0	0	0	0	0	1.89	1.89
03140103	.78	0	.78	0	0	0	.78	0	.78	.94	1.72
03140104	0	0	0	0	0	0	0	0	0	0	0
03140106	.01	0	.01	0	0	0	.01	0	.01	.42	.43
03140107	0	0	0	0	0	0	0	0	0	0	0
03140201	.77	0	.77	0	0	0	.77	0	.77	.13	.90
03140202	0	0	0	0	0	0	0	0	0	.52	.52
03140203	0	0	0	0	0	0	0	0	0	0	0
03140301	0	0	0	0	0	0	0	0	0	.81	.81
03140302	0	0	0	0	0	0	0	0	0	.02	.02
03140303	.21	0	.21	0	0	0	.21	0	.21	.06	.27
03140304	.79	0	.79	35.52	0	35.52	36.31	0	36.31	.86	37.17
03140305	.51	0	.51	0	0	0	.51	0	.51	.30	.81
03150105	.05	0	.05	0	0	0	.05	0	.05	.04	.09
03150106	2.56	0	2.56	93.46	0	93.46	96.02	0	96.02	11.60	107.62
03150107	0	0	0	60.19	0	60.19	60.19	0	60.19	1.88	62.07
03150108	.82	0	.82	0	0	0	.82	0	.82	.16	.98
03150109	0	0	0	0	0	0	0	0	0	5.64	5.64
03150110	0	0	0	2.08	0	2.08	2.08	0	2.08	1.89	3.97
03150201	2.71	0	2.71	70.67	0	70.67	73.38	0	73.38	5.30	78.68
03150202	.23	0	.23	0	0	0	.23	0	.23	7.26	7.49
03150203	0	0	0	19.87	0	19.87	19.87	0	19.87	.28	20.15
03150204	.27	0	.27	57.07	0	57.07	57.34	0	57.34	1.98	59.32
03160101	0	0	0	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0	0	.42	.42
03160105	.54	0	.54	0	0	0	.54	0	.54	.98	1.52
03160106	.27	0	.27	0	0	0	.27	0	.27	.27	.54
03160107	0	0	0	0	0	0	0	0	0	.48	.48
03160108	0	0	0	0	0	0	0	0	0	0	0
03160109	0	0	0	2.88	0	2.88	2.88	0	2.88	2.20	5.08
03160110	0	0	0	0	0	0	0	0	0	.52	.52
03160111	.43	0	.43	0	0	0	.43	0	.43	14.10	14.53
03160112	0	0	0	0	0	0	0	0	0	13.00	13.00
03160113	1.00	0	1.00	1.80	0	1.80	2.80	0	2.80	2.22	5.02
03160201	1.37	0	1.37	73.94	0	73.94	75.31	0	75.31	.44	75.75
03160202	0	0	0	0	0	0	0	0	0	.36	.36
03160203	7.53	0	7.53	31.59	0	31.59	39.12	0	39.12	.70	39.82
03160204	2.43	0	2.43	1.20	0	1.20	3.63	0	3.63	95.20	98.83
03160205	.07	0	.07	0	0	0	.07	0	.07	4.50	4.57
03170002	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0
03170008	0	0	0	0	0	0	0	0	0	0	0
03170009	.13	0	.13	0	0	0	.13	0	.13	.50	.63
06020001	0	0	0	0	0	0	0	0	0	0	0
06030001	.22	0	.22	4.30	0	4.30	4.52	0	4.52	4.56	9.08
06030002	7.82	0	7.82	101.39	0	101.39	109.21	0	109.21	21.40	130.61
06030003	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0
06030005	1.02	0	1.02	112.57	0	112.57	113.59	0	113.59	.93	114.52
06030006	0	0	0	0	0	0	0	0	0	1.45	1.45
Total.....	33.79	0	33.79	699.35	0	699.35	733.14	0	733.14	213.12	946.26

Table 33. Consumptive industrial water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total	
03130002	1.03	0	1.03	0
03130003	2.97	0	2.97	0
03130004	.45	0	.45	0
03130012	.42	0	.42	0
03140103	.38	0	.38	0
03140104	0	0	0	0
03140106	.10	0	.10	0
03140107	0	0	0	0
03140201	.48	0	.48	0
03140202	.11	0	.11	0
03140203	0	0	0	0
03140301	.18	0	.18	0
03140302	.01	0	.01	0
03140303	.20	0	.20	0
03140304	8.41	0	8.41	0
03140305	.20	0	.20	0
03150105	.02	0	.02	0
03150106	14.17	0	14.17	0
03150107	1.20	0	1.20	0
03150108	.27	0	.27	0
03150109	1.14	0	1.14	0
03150110	.99	0	.99	0
03150201	11.96	0	11.96	0
03150202	1.15	0	1.15	0
03150203	2.76	0	2.76	0
03150204	5.78	0	5.78	0
03160101	0	0	0	0
03160103	.09	0	.09	0
03160105	.34	0	.34	0
03160106	.29	0	.29	0
03160107	.11	0	.11	0
03160108	0	0	0	0
03160109	2.11	0	2.11	0
03160110	.11	0	.11	0
03160111	3.45	0	3.45	0
03160112	3.45	0	3.45	0
03160113	2.05	0	2.05	0
03160201	5.69	0	5.69	0
03160202	.09	0	.09	0
03160203	8.82	0	8.82	0
03160204	19.50	0	19.50	0
03160205	2.80	0	2.80	0
03170002	0	0	0	0
03170003	0	0	0	0
03170008	0	0	0	0
03170009	.10	0	.10	0
06020001	0	0	0	0
06030001	2.22	0	2.22	0
06030002	4.08	0	4.08	0
06030003	0	0	0	0
06030004	0	0	0	0
06030005	6.38	0	6.38	0
06030006	.32	0	.32	0
Total.....	116.38	0	116.38	0

Table 34. Withdrawals for mining water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d
	Source and type						Total						
	Ground water			Surface water									
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	
03130002	0	0	0	0	0	0	0	0	0	0	0	0	0
03130003	0	0	0	0	0	0	0	0	0	0	0	0	0
03130004	0	0	0	0	0	0	0	0	0	0	0	0	0
03130012	0	0	0	0	0	0	0	0	0	0	0	0	0
03140103	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03140104	0	.17	.17	0	0	0	0	.17	.17	0	0	0	0
03140106	0	.09	.09	0	0	0	0	.09	.09	0	0	0	0
03140107	0	.02	.02	0	0	0	0	.02	.02	0	0	0	0
03140201	0	0	0	0	0	0	0	0	0	0	0	0	0
03140202	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03140203	0	0	0	0	0	0	0	0	0	0	0	0	0
03140301	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03140302	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03140303	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03140304	.01	1.15	1.16	0	0	0	.01	1.15	1.16	0	0	0	0
03140305	.01	.54	.55	0	0	0	.01	.54	.55	0	0	0	0
03150105	0	0	0	0	0	0	0	0	0	0	0	0	0
03150106	0	.02	.02	0	0	0	0	.02	.02	0	0	0	0
03150107	0	.04	.04	0	0	0	0	.04	.04	0	0	0	0
03150108	0	0	0	0	0	0	0	0	0	0	0	0	0
03150109	0	0	0	0	0	0	0	0	0	0	0	0	0
03150110	0	0	0	0	0	0	0	0	0	0	0	0	0
03150201	0	0	0	0	0	0	0	0	0	0	0	0	0
03150202	0	.35	.35	0	0	0	0	.35	.35	0	0	0	0
03150203	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03150204	0	.25	.25	0	0	0	0	.25	.25	0	0	0	0
03160101	0	0	0	0	0	0	0	0	0	0	0	0	0
03160103	.10	.04	.14	0	0	0	.10	.04	.14	0	0	0	0
03160105	.19	.08	.27	0	0	0	.19	.08	.27	0	0	0	0
03160106	0	.01	.01	0	0	0	0	.01	.01	0	0	0	0
03160107	.10	.36	.46	.28	0	.28	.38	.36	.74	0	0	0	0
03160108	0	0	0	0	0	0	0	0	0	0	0	0	0
03160109	1.10	.04	1.14	3.30	0	3.30	4.40	.04	4.44	0	0	0	0
03160110	0	0	0	0	0	0	0	0	0	0	0	0	0
03160111	.25	.76	1.01	.76	0	.76	1.01	.76	1.77	0	0	0	0
03160112	1.58	2.37	3.95	2.66	0	2.66	4.24	2.37	6.61	0	0	0	0
03160113	0	.53	.53	0	0	0	0	.53	.53	0	0	0	0
03160201	.03	1.35	1.38	0	0	0	.03	1.35	1.38	0	0	0	0
03160202	0	0	0	0	0	0	0	0	0	0	0	0	0
03160203	0	.22	.22	0	0	0	0	.22	.22	0	0	0	0
03160204	.26	.27	.53	0	0	0	.26	.27	.53	0	0	0	0
03160205	.08	.11	.19	0	0	0	.08	.11	.19	0	0	0	0
03170002	.01	.02	.03	0	0	0	.01	.02	.03	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0	0	0
03170008	.21	.17	.38	0	0	0	.21	.17	.38	0	0	0	0
03170009	.05	.04	.09	0	0	0	.05	.04	.09	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0	0	0	0	0
06030001	0	0	0	0	0	0	0	0	0	0	0	0	0
06030002	0	0	0	0	0	0	0	0	0	0	0	0	0
06030003	0	0	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0	0	0
06030005	0	0	0	0	0	0	0	0	0	0	0	0	0
06030006	0	0	0	0	0	0	0	0	0	0	0	0	0
Total.....	3.98	9.06	13.04	7.00	0	7.00	10.98	9.06	20.04	0	0	0	0

Table 35. Withdrawals for livestock (stock) water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d		
	Source and type						Total					
	Ground water			Surface water								
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
03130002	0.22	0	0.22	0.21	0	0.21	0.43	0	0.43	0.43	0	0.43
03130003	.26	0	.26	.33	0	.33	.59	0	.59	.59	0	.59
03130004	.20	0	.20	.30	0	.30	.50	0	.50	.50	0	.50
03130012	.09	0	.09	.13	0	.13	.22	0	.22	.22	0	.22
03140103	.14	0	.14	.20	0	.20	.34	0	.34	.34	0	.34
03140104	0	0	0	.01	0	.01	.01	0	.01	.01	0	.01
03140106	.08	0	.08	.10	0	.10	.18	0	.18	.18	0	.18
03140107	.05	0	.05	.06	0	.06	.11	0	.11	.11	0	.11
03140201	.70	0	.70	.97	0	.97	1.67	0	1.67	1.67	0	1.67
03140202	.45	0	.45	.61	0	.61	1.06	0	1.06	1.06	0	1.06
03140203	.06	0	.06	.07	0	.07	.13	0	.13	.13	0	.13
03140301	.30	0	.30	.45	0	.45	.75	0	.75	.75	0	.75
03140302	.13	0	.13	.20	0	.20	.33	0	.33	.33	0	.33
03140303	.21	0	.21	.31	0	.31	.52	0	.52	.52	0	.52
03140304	.13	0	.13	.20	0	.20	.33	0	.33	.33	0	.33
03140305	.07	0	.07	.10	0	.10	.17	0	.17	.17	0	.17
03150105	.23	0	.23	.31	0	.31	.54	0	.54	.54	0	.54
03150106	.86	0	.86	1.11	0	1.11	1.97	0	1.97	1.97	0	1.97
03150107	.30	0	.30	.41	0	.41	.71	0	.71	.71	0	.71
03150108	.24	0	.24	.29	0	.29	.53	0	.53	.53	0	.53
03150109	.39	0	.39	.50	0	.50	.89	0	.89	.89	0	.89
03150110	.35	0	.35	.50	0	.50	.85	0	.85	.85	0	.85
03150201	1.28	0	1.28	1.88	0	1.88	3.16	0	3.16	3.16	0	3.16
03150202	.30	0	.30	.45	0	.45	.75	0	.75	.75	0	.75
03150203	.40	0	.40	.58	0	.58	.98	0	.98	.98	0	.98
03150204	.12	0	.12	.19	0	.19	.31	0	.31	.31	0	.31
03160101	.03	0	.03	.04	0	.04	.07	0	.07	.07	0	.07
03160103	.14	0	.14	.21	0	.21	.35	0	.35	.35	0	.35
03160105	.12	0	.12	.15	0	.15	.27	0	.27	.27	0	.27
03160106	.30	0	.30	.35	0	.35	.65	0	.65	.65	0	.65
03160107	.09	0	.09	.11	0	.11	.20	0	.20	.20	0	.20
03160108	.02	0	.02	.02	0	.02	.04	0	.04	.04	0	.04
03160109	.82	0	.82	.85	0	.85	1.67	0	1.67	1.67	0	1.67
03160110	.49	0	.49	.51	0	.51	1.00	0	1.00	1.00	0	1.00
03160111	.53	0	.53	.58	0	.58	1.11	0	1.11	1.11	0	1.11
03160112	.12	0	.12	.15	0	.15	.27	0	.27	.27	0	.27
03160113	.47	0	.47	.61	0	.61	1.08	0	1.08	1.08	0	1.08
03160201	.39	0	.39	.58	0	.58	.97	0	.97	.97	0	.97
03160202	.13	0	.13	.21	0	.21	.34	0	.34	.34	0	.34
03160203	.15	0	.15	.20	0	.20	.35	0	.35	.35	0	.35
03160204	.10	0	.10	.12	0	.12	.22	0	.22	.22	0	.22
03160205	.24	0	.24	.29	0	.29	.53	0	.53	.53	0	.53
03170002	0	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0	0
03170008	.04	0	.04	.05	0	.05	.09	0	.09	.09	0	.09
03170009	.01	0	.01	.01	0	.01	.02	0	.02	.02	0	.02
06020001	0	0	0	0	0	0	0	0	0	0	0	0
06030001	1.06	0	1.06	1.21	0	1.21	2.27	0	2.27	2.27	0	2.27
06030002	1.26	0	1.26	1.55	0	1.55	2.81	0	2.81	2.81	0	2.81
06030003	0	0	0	0	0	0	0	0	0	0	0	0
06030004	.06	0	.06	.08	0	.08	.14	0	.14	.14	0	.14
06030005	.72	0	.72	1.02	0	1.02	1.74	0	1.74	1.74	0	1.74
06030006	.28	0	.28	.37	0	.37	.65	0	.65	.65	0	.65
Total	15.13	0	15.13	19.74	0	19.74	34.87	0	34.87	34.87	0	34.87

Table 36. Withdrawals for livestock (animal specialties) water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Water withdrawals, in Mgal/d									Consumptive use, in Mgal/d		
	Source and type						Total					
	Ground water			Surface water								
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
03130002	0	0	0	0.30	0	0.30	0.30	0	0.30	0.30	0	0.30
03130003	.07	0	.07	.88	0	.88	.95	0	.95	.95	0	.95
03130004	0	0	0	.45	0	.45	.45	0	.45	.45	0	.45
03130012	0	0	0	.27	0	.27	.27	0	.27	.27	0	.27
03140103	0	0	0	.36	0	.36	.36	0	.36	.36	0	.36
03140104	0	0	0	0	0	0	0	0	0	0	0	0
03140106	0	0	0	0	0	0	0	0	0	0	0	0
03140107	.07	0	.07	0	0	0	.07	0	.07	.07	0	.07
03140201	.07	0	.07	1.34	0	1.34	1.41	0	1.41	1.41	0	1.41
03140202	.07	0	.07	1.25	0	1.25	1.32	0	1.32	1.32	0	1.32
03140203	0	0	0	0	0	0	0	0	0	0	0	0
03140301	0	0	0	.80	0	.80	.80	0	.80	.80	0	.80
03140302	0	0	0	0	0	0	0	0	0	0	0	0
03140303	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
03140304	0	0	0	.04	0	.04	.04	0	.04	.04	0	.04
03140305	0	0	0	.05	0	.05	.05	0	.05	.05	0	.05
03150105	0	0	0	.51	0	.51	.51	0	.51	.51	0	.51
03150106	0	0	0	.65	0	.65	.65	0	.65	.65	0	.65
03150107	0	0	0	.85	0	.85	.85	0	.85	.85	0	.85
03150108	0	0	0	.14	0	.14	.14	0	.14	.14	0	.14
03150109	0	0	0	.73	0	.73	.73	0	.73	.73	0	.73
03150110	0	0	0	1.22	0	1.22	1.22	0	1.22	1.22	0	1.22
03150201	0	0	0	1.00	0	1.00	1.00	0	1.00	1.00	0	1.00
03150202	.75	0	.75	3.04	0	3.04	3.79	0	3.79	3.79	0	3.79
03150203	1.86	0	1.86	11.36	0	11.36	13.22	0	13.22	13.22	0	13.22
03150204	0	0	0	0	0	0	0	0	0	0	0	0
03160101	0	0	0	0	0	0	0	0	0	0	0	0
03160103	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
03160105	0	0	0	.63	0	.63	.63	0	.63	.63	0	.63
03160106	.30	0	.30	6.66	0	6.66	6.96	0	6.96	6.96	0	6.96
03160107	0	0	0	.10	0	.10	.10	0	.10	.10	0	.10
03160108	0	0	0	1.61	0	1.61	1.61	0	1.61	1.61	0	1.61
03160109	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
03160110	0	0	0	.43	0	.43	.43	0	.43	.43	0	.43
03160111	0	0	0	.27	0	.27	.27	0	.27	.27	0	.27
03160112	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
03160113	3.40	0	3.40	39.08	0	39.08	42.48	0	42.48	42.48	0	42.48
03160201	.34	0	.34	3.42	0	3.42	3.76	0	3.76	3.76	0	3.76
03160202	0	0	0	1.61	0	1.61	1.61	0	1.61	1.61	0	1.61
03160203	0	0	0	.71	0	.71	.71	0	.71	.71	0	.71
03160204	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
03160205	0	0	0	0	0	0	0	0	0	0	0	0
03170002	0	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0	0
03170008	0	0	0	.18	0	.18	.18	0	.18	.18	0	.18
03170009	0	0	0	0	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0	0	0	0
06030001	0	0	0	1.34	0	1.34	1.34	0	1.34	1.34	0	1.34
06030002	0	0	0	1.48	0	1.48	1.48	0	1.48	1.48	0	1.48
06030003	0	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0	0
06030005	0	0	0	1.48	0	1.48	1.48	0	1.48	1.48	0	1.48
06030006	0	0	0	.54	0	.54	.54	0	.54	.54	0	.54
Total	6.93	0	6.93	86.93	0	86.93	93.86	0	93.86	93.86	0	93.86

Table 37. Withdrawals for irrigation water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Water withdrawals, in Mgal/d								
	Source and type						Total		
	Ground water			Surface water					
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total
03130002	0.04	0	0.04	0.19	0	0.19	0.23	0	0.23
03130003	0	0	0	1.49	0	1.49	1.49	0	1.49
03130004	11.20	0	11.20	7.48	0	7.48	18.68	0	18.68
03130012	.25	0	.25	.20	0	.20	.45	0	.45
03140103	0	0	0	0	0	0	0	0	0
03140104	0	0	0	0	0	0	0	0	0
03140106	8.31	0	8.31	1.52	0	1.52	9.83	0	9.83
03140107	7.32	0	7.32	1.55	0	1.55	8.87	0	8.87
03140201	2.13	0	2.13	9.30	0	9.30	11.43	0	11.43
03140202	.13	0	.13	12.15	0	12.15	12.28	0	12.28
03140203	0	0	0	0	0	0	0	0	0
03140301	2.05	0	2.05	2.28	0	2.28	4.33	0	4.33
03140302	.20	0	.20	.22	0	.22	.42	0	.42
03140303	0	0	0	0	0	0	0	0	0
03140304	0	0	0	.85	0	.85	.85	0	.85
03140305	2.52	0	2.52	1.10	0	1.10	3.62	0	3.62
03150105	.06	0	.06	3.54	0	3.54	3.60	0	3.60
03150106	.34	0	.34	12.54	0	12.54	12.88	0	12.88
03150107	.01	0	.01	.15	0	.15	.16	0	.16
03150108	0	0	0	0	0	0	0	0	0
03150109	0	0	0	.78	0	.78	.78	0	.78
03150110	.33	0	.33	3.38	0	3.38	3.71	0	3.71
03150201	1.01	0	1.01	6.35	0	6.35	7.36	0	7.36
03150202	1.04	0	1.04	1.24	0	1.24	2.28	0	2.28
03150203	.52	0	.52	0	0	0	.52	0	.52
03150204	.29	0	.29	.13	0	.13	.42	0	.42
03160101	0	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0	0
03160105	0	0	0	0	0	0	0	0	0
03160106	.31	0	.31	.28	0	.28	.59	0	.59
03160107	0	0	0	1.00	0	1.00	1.00	0	1.00
03160108	0	0	0	0	0	0	0	0	0
03160109	0	0	0	.36	0	.36	.36	0	.36
03160110	0	0	0	0	0	0	0	0	0
03160111	.08	0	.08	.84	0	.84	.92	0	.92
03160112	.10	0	.10	.38	0	.38	.48	0	.48
03160113	.16	0	.16	.34	0	.34	.50	0	.50
03160201	0	0	0	0	0	0	0	0	0
03160202	0	0	0	0	0	0	0	0	0
03160203	0	0	0	.31	0	.31	.31	0	.31
03160204	.28	0	.28	.37	0	.37	.65	0	.65
03160205	4.88	0	4.88	1.84	0	1.84	6.72	0	6.72
03170002	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0
03170008	3.30	0	3.30	.54	0	.54	3.84	0	3.84
03170009	0	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0
06030001	0	0	0	.54	0	.54	.54	0	.54
06030002	.93	0	.93	9.84	0	9.84	10.77	0	10.77
06030003	0	0	0	0	0	0	0	0	0
06030004	0	0	0	.03	0	.03	.03	0	.03
06030005	3.02	0	3.02	4.58	0	4.58	7.60	0	7.60
06030006	0	0	0	.03	0	.03	.03	0	.03
Total	50.81	0	50.81	87.72	0	87.72	138.53	0	138.53

Table 38. Consumptive irrigation water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Consumptive use, by type, in Mgal/d			Conveyance loss, in Mgal/d	Irrigated land, by type, in thousands of acres				Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total		Sprinkler	Micro-irrigation	Surface	Total	
03130002	0.23	0	0.23	0	0.95	0.01	0	0.96	0
03130003	1.49	0	1.49	0	.39	0	0	.39	0
03130004	18.68	0	18.68	0	6.38	0	0	6.38	0
03130012	.45	0	.45	0	.46	0	0	.46	0
03140103	0	0	0	0	0	0	0	0	0
03140104	0	0	0	0	0	0	0	0	0
03140106	9.83	0	9.83	0	3.06	0	0	3.06	0
03140107	8.87	0	8.87	0	4.31	.01	0	4.32	0
03140201	11.43	0	11.43	0	3.30	0	0	3.30	0
03140202	12.28	0	12.28	0	3.65	0	0	3.65	0
03140203	0	0	0	0	0	0	0	0	0
03140301	4.33	0	4.33	0	1.58	0	0	1.58	0
03140302	.42	0	.42	0	.82	0	0	.82	0
03140303	0	0	0	0	0	0	0	0	0
03140304	.85	0	.85	0	.20	0	0	.20	0
03140305	3.62	0	3.62	0	1.64	0	0	1.64	0
03150105	3.60	0	3.60	0	1.40	.01	0	1.41	0
03150106	12.88	0	12.88	0	2.86	0	0	2.86	0
03150107	.16	0	.16	0	.31	0	0	.31	0
03150108	0	0	0	0	0	0	0	0	0
03150109	.78	0	.78	0	.14	0	0	.14	0
03150110	3.71	0	3.71	0	2.24	0	.04	2.28	0
03150201	7.36	0	7.36	0	.91	.28	0	1.19	0
03150202	2.28	0	2.28	0	.86	0	0	.86	0
03150203	.52	0	.52	0	.12	0	0	.12	0
03150204	.42	0	.42	0	.32	0	0	.32	0
03160101	0	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0	0
03160105	0	0	0	0	0	0	0	0	0
03160106	.59	0	.59	0	.68	0	0	.68	0
03160107	1.00	0	1.00	0	.12	0	0	.12	0
03160108	0	0	0	0	0	0	0	0	0
03160109	.36	0	.36	0	.60	0	0	.60	.05
03160110	0	0	0	0	0	0	0	0	0
03160111	.92	0	.92	0	.70	.02	0	.72	0
03160112	.48	0	.48	0	.28	0	0	.28	0
03160113	.50	0	.50	0	.97	0	0	.97	0
03160201	0	0	0	0	0	0	0	0	0
03160202	0	0	0	0	0	0	0	0	0
03160203	.31	0	.31	0	.08	0	0	.08	0
03160204	.65	0	.65	0	.29	.02	0	.31	0
03160205	6.72	0	6.72	0	1.62	0	0	1.62	0
03170002	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0
03170008	3.84	0	3.84	0	.57	0	0	.57	0
03170009	0	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0
06030001	.54	0	.54	0	.44	0	0	.44	0
06030002	10.77	0	10.77	0	7.12	.06	0	7.18	0
06030003	0	0	0	0	0	0	0	0	0
06030004	.03	0	.03	0	.15	0	0	.15	0
06030005	7.60	0	7.60	0	2.27	0	0	2.27	0
06030006	.03	0	.03	0	.01	0	0	.01	0
Total	138.53	0	138.53	0	51.80	0.41	0.04	52.25	0.05

Table 39. Water withdrawals and deliveries for thermoelectric-power generation, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
03130002	0	0	0	0	0	0	0	0	0	0	0
03130003	0	0	0	0	0	0	0	0	0	0	0
03130004	.02	0	.02	85.80	0	85.80	85.82	0	85.82	0	85.82
03130012	0	0	0	0	0	0	0	0	0	0	0
03140103	0	0	0	0	0	0	0	0	0	0	0
03140104	0	0	0	0	0	0	0	0	0	0	0
03140106	0	0	0	0	0	0	0	0	0	0	0
03140107	0	0	0	0	0	0	0	0	0	0	0
03140201	0	0	0	0	0	0	0	0	0	0	0
03140202	0	0	0	0	0	0	0	0	0	0	0
03140203	0	0	0	0	0	0	0	0	0	0	0
03140301	0	0	0	4.81	0	4.81	4.81	0	4.81	0	4.81
03140302	0	0	0	0	0	0	0	0	0	0	0
03140303	0	0	0	0	0	0	0	0	0	0	0
03140304	0	0	0	0	0	0	0	0	0	0	0
03140305	0	0	0	0	0	0	0	0	0	0	0
03150105	0	0	0	0	0	0	0	0	0	0	0
03150106	0	0	0	140.00	0	140.00	140.00	0	140.00	0	140.00
03150107	0	0	0	700.02	0	700.02	700.02	0	700.02	0	700.02
03150108	0	0	0	0	0	0	0	0	0	0	0
03150109	0	0	0	0	0	0	0	0	0	0	0
03150110	0	0	0	0	0	0	0	0	0	0	0
03150201	0	0	0	0	0	0	0	0	0	0	0
03150202	0	0	0	0	0	0	0	0	0	0	0
03150203	0	0	0	0	0	0	0	0	0	0	0
03150204	0	0	0	0	0	0	0	0	0	0	0
03160101	0	0	0	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0	0	0	0
03160105	0	0	0	0	0	0	0	0	0	0	0
03160106	0	0	0	0	0	0	0	0	0	0	0
03160107	0	0	0	0	0	0	0	0	0	0	0
03160108	0	0	0	0	0	0	0	0	0	0	0
03160109	0	0	0	849.18	0	849.18	849.18	0	849.18	0	849.18
03160110	0	0	0	0	0	0	0	0	0	0	0
03160111	0	0	0	24.78	0	24.78	24.78	0	24.78	0	24.78
03160112	0	0	0	0	0	0	0	0	0	0	0
03160113	.02	0	.02	310.00	0	310.00	310.02	0	310.02	0	310.02
03160201	0	0	0	0	0	0	0	0	0	0	0
03160202	0	0	0	0	0	0	0	0	0	0	0
03160203	0	0	0	66.80	0	66.80	66.80	0	66.80	0	66.80
03160204	5.99	0	5.99	928.98	0	928.98	934.97	0	934.97	0	934.97
03160205	0	0	0	0	0	0	0	0	0	0	0
03170002	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0
03170008	0	0	0	0	0	0	0	0	0	0	0
03170009	0	0	0	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0	0	0
06030001	0	0	0	1,286.00	0	1,286.00	1,286.00	0	1,286.00	0	1,286.00
06030002	0	0	0	776.00	0	776.00	776.00	0	776.00	0	776.00
06030003	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0
06030005	0	0	0	18.90	0	18.90	18.90	0	18.90	0	18.90
06030006	0	0	0	0	0	0	0	0	0	0	0
Total.....	6.03	0	6.03	5,191.27	0	5,191.27	5,197.30	0	5,197.30	0	5,197.30

Table 40. Consumptive water use for generation of thermoelectric power, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

Hydrologic unit (fig. 2)	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
03130002	0	0	0	0	0
03130003	0	0	0	0	0
03130004	.20	0	.20	0	10,831.87
03130012	0	0	0	0	0
03140103	0	0	0	0	0
03140104	0	0	0	0	0
03140106	0	0	0	0	0
03140107	0	0	0	0	0
03140201	0	0	0	0	0
03140202	0	0	0	0	0
03140203	0	0	0	0	0
03140301	.02	0	.02	0	9.58
03140302	0	0	0	0	0
03140303	0	0	0	0	0
03140304	0	0	0	0	0
03140305	0	0	0	0	0
03150105	0	0	0	0	0
03150106	3.50	0	3.50	0	405.81
03150107	3.50	0	3.50	0	3,633.06
03150108	0	0	0	0	0
03150109	0	0	0	0	0
03150110	0	0	0	0	0
03150201	0	0	0	0	0
03150202	0	0	0	0	0
03150203	0	0	0	0	0
03150204	0	0	0	0	0
03160101	0	0	0	0	0
03160103	0	0	0	0	0
03160105	0	0	0	0	0
03160106	0	0	0	0	0
03160107	0	0	0	0	0
03160108	0	0	0	0	0
03160109	8.49	0	8.49	0	8853.70
03160110	0	0	0	0	0
03160111	10.10	0	10.10	0	18,212.07
03160112	0	0	0	0	0
03160113	1.50	0	1.50	0	3,430.15
03160201	0	0	0	0	0
03160202	0	0	0	0	0
03160203	1.00	0	1.00	0	3,609.51
03160204	1.00	0	1.00	0	9,835.12
03160205	0	0	0	0	0
03170002	0	0	0	0	0
03170003	0	0	0	0	0
03170008	0	0	0	0	0
03170009	0	0	0	0	0
06020001	0	0	0	0	0
06030001	1.25	0	1.25	0	9,289.32
06030002	1.50	0	1.50	0	9,906.84
06030003	0	0	0	0	0
06030004	0	0	0	0	0
06030005	.10	0	.10	0	7,330.06
06030006	0	0	0	0	0
Total	32.16	0	32.16	0	85,347.09

Table 41. Water withdrawals and deliveries for fossil fuel thermoelectric-power generation, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Self-supplied water withdrawals, in Mgal/d									Public-supply water deliveries, in Mgal/d	Total withdrawals and deliveries, in Mgal/d
	Source and type						Total				
	Ground water			Surface water							
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
03130002	0	0	0	0	0	0	0	0	0	0	0
03130003	0	0	0	0	0	0	0	0	0	0	0
03130004	0	0	0	0	0	0	0	0	0	0	0
03130012	0	0	0	0	0	0	0	0	0	0	0
03140103	0	0	0	0	0	0	0	0	0	0	0
03140104	0	0	0	0	0	0	0	0	0	0	0
03140106	0	0	0	0	0	0	0	0	0	0	0
03140107	0	0	0	0	0	0	0	0	0	0	0
03140201	0	0	0	0	0	0	0	0	0	0	0
03140202	0	0	0	0	0	0	0	0	0	0	0
03140203	0	0	0	0	0	0	0	0	0	0	0
03140301	0	0	0	4.81	0	4.81	4.81	0	4.81	0	4.81
03140302	0	0	0	0	0	0	0	0	0	0	0
03140303	0	0	0	0	0	0	0	0	0	0	0
03140304	0	0	0	0	0	0	0	0	0	0	0
03140305	0	0	0	0	0	0	0	0	0	0	0
03150105	0	0	0	0	0	0	0	0	0	0	0
03150106	0	0	0	140.00	0	140.00	140.00	0	140.00	0	140.00
03150107	0	0	0	700.02	0	700.02	700.02	0	700.02	0	700.02
03150108	0	0	0	0	0	0	0	0	0	0	0
03150109	0	0	0	0	0	0	0	0	0	0	0
03150110	0	0	0	0	0	0	0	0	0	0	0
03150201	0	0	0	0	0	0	0	0	0	0	0
03150202	0	0	0	0	0	0	0	0	0	0	0
03150203	0	0	0	0	0	0	0	0	0	0	0
03150204	0	0	0	0	0	0	0	0	0	0	0
03160101	0	0	0	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0	0	0	0
03160105	0	0	0	0	0	0	0	0	0	0	0
03160106	0	0	0	0	0	0	0	0	0	0	0
03160107	0	0	0	0	0	0	0	0	0	0	0
03160108	0	0	0	0	0	0	0	0	0	0	0
03160109	0	0	0	849.18	0	849.18	849.18	0	849.18	0	849.18
03160110	0	0	0	0	0	0	0	0	0	0	0
03160111	0	0	0	24.78	0	24.78	24.78	0	24.78	0	24.78
03160112	0	0	0	0	0	0	0	0	0	0	0
03160113	.02	0	.02	310.00	0	310.00	310.02	0	310.02	0	310.02
03160201	0	0	0	0	0	0	0	0	0	0	0
03160202	0	0	0	0	0	0	0	0	0	0	0
03160203	0	0	0	66.80	0	66.80	66.80	0	66.80	0	66.80
03160204	5.99	0	5.99	928.98	0	928.98	934.97	0	934.97	0	934.97
03160205	0	0	0	0	0	0	0	0	0	0	0
03170002	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0
03170008	0	0	0	0	0	0	0	0	0	0	0
03170009	0	0	0	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0	0	0
06030001	0	0	0	1,286.00	0	1,286.00	1,286.00	0	1,286.00	0	1,286.00
06030002	0	0	0	0	0	0	0	0	0	0	0
06030003	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0
06030005	0	0	0	18.90	0	18.90	18.90	0	18.90	0	18.90
06030006	0	0	0	0	0	0	0	0	0	0	0
Total.....	6.01	0	6.01	4,329.47	0	4,329.47	4,335.48	0	4,335.48	0	4,335.48

Table 42. Consumptive water use for generation of fossil fuel thermoelectric power, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

Hydrologic unit (fig. 2)	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh
	Fresh	Saline	Total		
03130002	0	0	0	0	0
03130003	0	0	0	0	0
03130004	0	0	0	0	0
03130012	0	0	0	0	0
03140103	0	0	0	0	0
03140104	0	0	0	0	0
03140106	0	0	0	0	0
03140107	0	0	0	0	0
03140201	0	0	0	0	0
03140202	0	0	0	0	0
03140203	0	0	0	0	0
03140301	.02	0	.02	0	9.58
03140302	0	0	0	0	0
03140303	0	0	0	0	0
03140304	0	0	0	0	0
03140305	0	0	0	0	0
03150105	0	0	0	0	0
03150106	3.50	0	3.50	0	405.81
03150107	3.50	0	3.50	0	3,633.06
03150108	0	0	0	0	0
03150109	0	0	0	0	0
03150110	0	0	0	0	0
03150201	0	0	0	0	0
03150202	0	0	0	0	0
03150203	0	0	0	0	0
03150204	0	0	0	0	0
03160101	0	0	0	0	0
03160103	0	0	0	0	0
03160105	0	0	0	0	0
03160106	0	0	0	0	0
03160107	0	0	0	0	0
03160108	0	0	0	0	0
03160109	8.49	0	8.49	0	8,853.70
03160110	0	0	0	0	0
03160111	10.10	0	10.10	0	18,212.07
03160112	0	0	0	0	0
03160113	1.50	0	1.50	0	3,430.15
03160201	0	0	0	0	0
03160202	0	0	0	0	0
03160203	1.00	0	1.00	0	3,609.51
03160204	1.00	0	1.00	0	9,835.12
03160205	0	0	0	0	0
03170002	0	0	0	0	0
03170003	0	0	0	0	0
03170008	0	0	0	0	0
03170009	0	0	0	0	0
06020001	0	0	0	0	0
06030001	1.25	0	1.25	0	9,289.32
06030002	0	0	0	0	0
06030003	0	0	0	0	0
06030004	0	0	0	0	0
06030005	.10	0	.10	0	7,330.06
06030006	0	0	0	0	0
Total	30.46	0	30.46	0	64,608.38

Table 43. Water withdrawals and deliveries for nuclear thermoelectric-power generation, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Ground water			Surface water			Total			Public-supply deliveries	Total withdrawals and deliveries
	Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total		
03130002	0	0	0	0	0	0	0	0	0	0	0
03130003	0	0	0	0	0	0	0	0	0	0	0
03130004	.02	0	.02	85.80	0	85.80	85.82	0	85.82	0	85.82
03130012	0	0	0	0	0	0	0	0	0	0	0
03140103	0	0	0	0	0	0	0	0	0	0	0
03140104	0	0	0	0	0	0	0	0	0	0	0
03140106	0	0	0	0	0	0	0	0	0	0	0
03140107	0	0	0	0	0	0	0	0	0	0	0
03140201	0	0	0	0	0	0	0	0	0	0	0
03140202	0	0	0	0	0	0	0	0	0	0	0
03140203	0	0	0	0	0	0	0	0	0	0	0
03140301	0	0	0	0	0	0	0	0	0	0	0
03140302	0	0	0	0	0	0	0	0	0	0	0
03140303	0	0	0	0	0	0	0	0	0	0	0
03140304	0	0	0	0	0	0	0	0	0	0	0
03140305	0	0	0	0	0	0	0	0	0	0	0
03150105	0	0	0	0	0	0	0	0	0	0	0
03150106	0	0	0	0	0	0	0	0	0	0	0
03150107	0	0	0	0	0	0	0	0	0	0	0
03150108	0	0	0	0	0	0	0	0	0	0	0
03150109	0	0	0	0	0	0	0	0	0	0	0
03150110	0	0	0	0	0	0	0	0	0	0	0
03150201	0	0	0	0	0	0	0	0	0	0	0
03150202	0	0	0	0	0	0	0	0	0	0	0
03150203	0	0	0	0	0	0	0	0	0	0	0
03150204	0	0	0	0	0	0	0	0	0	0	0
03160101	0	0	0	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0	0	0	0
03160105	0	0	0	0	0	0	0	0	0	0	0
03160106	0	0	0	0	0	0	0	0	0	0	0
03160107	0	0	0	0	0	0	0	0	0	0	0
03160108	0	0	0	0	0	0	0	0	0	0	0
03160109	0	0	0	0	0	0	0	0	0	0	0
03160110	0	0	0	0	0	0	0	0	0	0	0
03160111	0	0	0	0	0	0	0	0	0	0	0
03160112	0	0	0	0	0	0	0	0	0	0	0
03160113	0	0	0	0	0	0	0	0	0	0	0
03160201	0	0	0	0	0	0	0	0	0	0	0
03160202	0	0	0	0	0	0	0	0	0	0	0
03160203	0	0	0	0	0	0	0	0	0	0	0
03160204	0	0	0	0	0	0	0	0	0	0	0
03160205	0	0	0	0	0	0	0	0	0	0	0
03170002	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0
03170008	0	0	0	0	0	0	0	0	0	0	0
03170009	0	0	0	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0	0	0	0
06030001	0	0	0	0	0	0	0	0	0	0	0
06030002	0	0	0	776.00	0	776.00	776.00	0	776.00	0	776.00
06030003	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0
06030005	0	0	0	0	0	0	0	0	0	0	0
06030006	0	0	0	0	0	0	0	0	0	0	0
Total.....	0.02	0	0.02	861.80	0	861.80	861.82	0	861.82	0	861.82

Table 44. Consumptive water use for generation of nuclear thermoelectric power, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

Hydrologic unit (fig. 2)	Consumptive use, in Mgal/d			Reclaimed wastewater, in Mgal/d	Power generated, in million kWh, in Mgal/d
	Fresh	Saline	Total		
03130002	0	0	0	0	0
03130003	0	0	0	0	0
03130004	.20	0	.20	0	10,831.87
03130012	0	0	0	0	0
03140103	0	0	0	0	0
03140104	0	0	0	0	0
03140106	0	0	0	0	0
03140107	0	0	0	0	0
03140201	0	0	0	0	0
03140202	0	0	0	0	0
03140203	0	0	0	0	0
03140301	0	0	0	0	0
03140302	0	0	0	0	0
03140303	0	0	0	0	0
03140304	0	0	0	0	0
03140305	0	0	0	0	0
03150105	0	0	0	0	0
03150106	0	0	0	0	0
03150107	0	0	0	0	0
03150108	0	0	0	0	0
03150109	0	0	0	0	0
03150110	0	0	0	0	0
03150201	0	0	0	0	0
03150202	0	0	0	0	0
03150203	0	0	0	0	0
03150204	0	0	0	0	0
03160101	0	0	0	0	0
03160103	0	0	0	0	0
03160105	0	0	0	0	0
03160106	0	0	0	0	0
03160107	0	0	0	0	0
03160108	0	0	0	0	0
03160109	0	0	0	0	0
03160110	0	0	0	0	0
03160111	0	0	0	0	0
03160112	0	0	0	0	0
03160113	0	0	0	0	0
03160201	0	0	0	0	0
03160202	0	0	0	0	0
03160203	0	0	0	0	0
03160204	0	0	0	0	0
03160205	0	0	0	0	0
03170002	0	0	0	0	0
03170003	0	0	0	0	0
03170008	0	0	0	0	0
03170009	0	0	0	0	0
06020001	0	0	0	0	0
06030001	0	0	0	0	0
06030002	1.50	0	1.50	0	9,906.84
06030003	0	0	0	0	0
06030004	0	0	0	0	0
06030005	0	0	0	0	0
06030006	0	0	0	0	0
Total.....	1.70	0	1.70	0	20,738.71

Table 45. Hydroelectric-power water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; kWh, kilowatthours]

Hydrologic unit (fig. 2)	Instream water use		Offstream surface-water use, in Mgal/d			Power generated, in million kWh		
	Mgal/d	Thousand acre-feet per year	Fresh	Saline	Total	Instream	Offstream	Total
03130002	0	0	0	0	0	0	0	0
03130003	0	0	0	0	0	0	0	0
03130004	0	0	0	0	0	0	0	0
03130012	0	0	0	0	0	0	0	0
03140103	0	0	0	0	0	0	0	0
03140104	0	0	0	0	0	0	0	0
03140106	0	0	0	0	0	0	0	0
03140107	0	0	0	0	0	0	0	0
03140201	0	0	0	0	0	0	0	0
03140202	0	0	0	0	0	0	0	0
03140203	0	0	0	0	0	0	0	0
03140301	954.73	1,070.25	0	0	0	24.85	0	24.85
03140302	0	0	0	0	0	0	0	0
03140303	0	0	0	0	0	0	0	0
03140304	0	0	0	0	0	0	0	0
03140305	0	0	0	0	0	0	0	0
03150105	5,470.00	6,131.87	0	0	0	222.88	0	222.88
03150106	12,258.00	13,741.22	0	0	0	572.20	0	572.20
03150107	24,416.00	27,370.34	0	0	0	2,112.25	0	2,112.25
03150108	0	0	0	0	0	0	0	0
03150109	4,168.12	4,672.46	0	0	0	552.93	0	552.93
03150110	5,677.00	6,363.92	0	0	0	383.94	0	383.94
03150201	7,599.98	8,519.58	0	0	0	244.72	0	244.72
03150202	0	0	0	0	0	0	0	0
03150203	7,236.87	8,112.53	0	0	0	269.39	0	269.39
03150204	0	0	0	0	0	0	0	0
03160101	0	0	0	0	0	0	0	0
03160103	0	0	0	0	0	0	0	0
03160105	0	0	0	0	0	0	0	0
03160106	0	0	0	0	0	0	0	0
03160107	0	0	0	0	0	0	0	0
03160108	0	0	0	0	0	0	0	0
03160109	0	0	0	0	0	0	0	0
03160110	1,055.00	1,182.65	0	0	0	252.54	0	252.54
03160111	0	0	0	0	0	0	0	0
03160112	5,804.52	6,506.87	0	0	0	362.67	0	362.67
03160113	0	0	0	0	0	0	0	0
03160201	0	0	0	0	0	0	0	0
03160202	0	0	0	0	0	0	0	0
03160203	0	0	0	0	0	0	0	0
03160204	0	0	0	0	0	0	0	0
03160205	0	0	0	0	0	0	0	0
03170002	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0
03170008	0	0	0	0	0	0	0	0
03170009	0	0	0	0	0	0	0	0
06020001	0	0	0	0	0	0	0	0
06030001	22,111.90	24,787.44	0	0	0	714.38	0	714.38
06030002	30,505.01	34,196.12	0	0	0	1,288.59	0	1,288.59
06030003	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0
06030005	30,230.20	33,888.05	0	0	0	2,504.56	0	2,504.56
06030006	0	0	0	0	0	0	0	0
Total.....	157,487.33	176,543.30	0	0	0	9,505.90	0	9,505.90

Table 46. Public wastewater-treatment releases, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Number of public facilities	Total releases, in Mgal/d
03130002	3	2.56
03130003	5	9.73
03130004	4	4.47
03130012	2	.40
03140103	3	1.64
03140104	0	0
03140106	3	3.04
03140107	4	2.62
03140201	13	13.86
03140202	8	7.24
03140203	0	0
03140301	4	3.01
03140302	1	.39
03140303	3	1.54
03140304	3	3.08
03140305	3	1.93
03150105	3	1.94
03150106	22	38.73
03150107	11	6.72
03150108	2	.50
03150109	8	7.67
03150110	7	10.64
03150201	14	46.64
03150202	15	35.94
03150203	5	1.38
03150204	2	1.73
03160101	0	0
03160103	3	1.28
03160105	3	.61
03160106	5	.65
03160107	1	1.49
03160108	0	0
03160109	11	8.53
03160110	2	.53
03160111	10	53.85
03160112	3	51.62
03160113	5	4.02
03160201	3	2.76
03160202	5	.65
03160203	5	1.60
03160204	5	17.15
03160205	6	29.16
03170002	0	0
03170003	0	0
03170008	1	.28
03170009	2	1.00
06020001	0	0
06030001	8	8.75
06030002	16	64.34
06030003	0	0
06030004	0	0
06030005	10	16.28
06030006	3	1.91
Total.....	255	473.86

Table 47. Total water use and per capita use of freshwater, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day; gal/d, gallons per day; **, more than 10,000 gal/d]

Hydrologic unit (fig. 2)	Population, in thousands	Water withdrawals, in Mgal/d									Per capita use, freshwater, in gal/d
		Source and type						Total			
		Ground water			Surface water						
		Fresh	Saline	Total	Fresh	Saline	Total	Fresh	Saline	Total	
03130002	52.04	0.76	0	0.76	15.71	0	15.71	16.47	0	16.47	316.49
03130003	87.16	6.62	0	6.62	36.38	0	36.38	43.00	0	43.00	493.35
03130004	36.48	20.23	0	20.23	94.03	0	94.03	114.26	0	114.26	3132.13
03130012	24.92	4.87	0	4.87	.60	0	.60	5.47	0	5.47	219.50
03140103	17.45	3.16	.01	3.17	.56	0	.56	3.72	.01	3.73	213.18
03140104	.73	.05	.17	.22	.01	0	.01	.06	.17	.23	82.19
03140106	26.79	11.97	.09	12.06	1.62	0	1.62	13.59	.09	13.68	507.28
03140107	16.68	12.31	.02	12.33	1.61	0	1.61	13.92	.02	13.94	834.53
03140201	136.25	28.88	0	28.88	11.61	0	11.61	40.49	0	40.49	297.17
03140202	50.38	7.02	.01	7.03	14.01	0	14.01	21.03	.01	21.04	417.43
03140203	3.92	.49	0	.49	.07	0	.07	.56	0	.56	142.86
03140301	30.99	6.88	.01	6.89	8.34	0	8.34	15.22	.01	15.23	491.13
03140302	10.68	1.57	.01	1.58	.42	0	.42	1.99	.01	2.00	186.33
03140303	26.27	3.27	.01	3.28	1.02	0	1.02	4.29	.01	4.30	163.30
03140304	26.18	4.99	1.15	6.14	36.61	0	36.61	41.60	1.15	42.75	1,589.00
03140305	20.31	5.77	.54	6.31	1.25	0	1.25	7.02	.54	7.56	345.64
03150105	36.30	1.12	0	1.12	7.09	0	7.09	8.21	0	8.21	226.17
03150106	313.02	41.59	.02	41.61	274.96	0	274.96	316.55	.02	316.57	1,011.28
03150107	111.07	9.90	.04	9.94	769.93	0	769.93	779.83	.04	779.87	7,021.07
03150108	22.11	2.36	0	2.36	1.32	0	1.32	3.68	0	3.68	166.44
03150109	61.84	2.30	0	2.30	15.52	0	15.52	17.82	0	17.82	288.16
03150110	130.66	6.86	0	6.86	20.62	0	20.62	27.48	0	27.48	210.32
03150201	316.53	55.26	0	55.26	104.02	0	104.02	159.28	0	159.28	503.21
03150202	304.07	20.04	.35	20.39	52.40	0	52.40	72.44	.35	72.79	238.23
03150203	34.96	5.56	.01	5.57	31.81	0	31.81	37.37	.01	37.38	1,068.94
03150204	24.55	5.77	.25	6.02	57.39	0	57.39	63.16	.25	63.41	2,572.71
03160101	3.95	.51	0	.51	.04	0	.04	.55	0	.55	139.24
03160103	23.35	1.11	.04	1.15	2.58	0	2.58	3.69	.04	3.73	158.03
03160105	19.83	3.45	.08	3.53	1.24	0	1.24	4.69	.08	4.77	236.51
03160106	28.28	4.45	.01	4.46	7.29	0	7.29	11.74	.01	11.75	415.13
03160107	17.45	1.14	.36	1.50	2.76	0	2.76	3.90	.36	4.26	223.50
03160108	1.26	.11	0	.11	1.63	0	1.63	1.74	0	1.74	1,380.95
03160109	126.91	3.65	.04	3.69	925.20	0	925.20	928.85	.04	928.89	7,318.97
03160110	44.36	1.81	0	1.81	3.93	0	3.93	5.74	0	5.74	129.40
03160111	332.57	11.70	.76	12.46	80.25	0	80.25	91.95	.76	92.71	276.48
03160112	294.59	7.04	2.37	9.41	29.75	0	29.75	36.79	2.37	39.16	124.89
03160113	102.75	11.05	.53	11.58	351.83	0	351.83	362.88	.53	363.41	3,531.68
03160201	37.71	5.71	1.35	7.06	77.94	0	77.94	83.65	1.35	85.00	2,218.24
03160202	10.00	.43	0	.43	3.95	0	3.95	4.38	0	4.38	438.00
03160203	36.57	10.46	.22	10.68	101.19	0	101.19	111.65	.22	111.87	3,053.05
03160204	213.73	17.67	.27	17.94	935.34	0	935.34	953.01	.27	953.28	4,458.94
03160205	203.58	15.31	.11	15.42	2.13	0	2.13	17.44	.11	17.55	85.67
03170002	.74	.07	.02	.09	0	0	0	.07	.02	.09	94.59
03170003	0	0	0	0	0	0	0	0	0	0	0
03170008	48.25	8.49	.17	8.66	139.40	0	139.40	147.89	.17	148.06	3,065.08
03170009	11.60	1.46	.04	1.50	.01	0	.01	1.47	.04	1.51	126.72
06020001	1.19	.09	0	.09	0	0	0	.09	0	.09	75.63
06030001	125.80	5.94	0	5.94	1311.33	0	1,311.33	1,317.27	0	1,317.27	**
06030002	450.98	45.61	0	45.61	948.24	0	948.24	993.85	0	993.85	2,203.76
06030003	0	0	0	0	0	0	0	0	0	0	0
06030004	14.61	1.21	0	1.21	.11	0	.11	1.32	0	1.32	90.35
06030005	149.03	6.83	0	6.83	161.26	0	161.26	168.09	0	168.09	1,127.89
06030006	31.55	1.21	0	1.21	5.57	0	5.57	6.78	0	6.78	214.90
Total.....	4,252.98	436.11	9.06	445.17	6,651.88	0	6,651.88	7,087.99	9.06	7,097.05	1,666.59

Table 48. Total consumptive water use, by hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Consumptive use, in Mgal/d			Conveyance loss, in Mgal/d	Reclaimed wastewater, in Mgal/d
	Fresh	Saline	Total		
03130002	3.18	0	3.18	0	0
03130003	7.78	0	7.78	0	0
03130004	20.94	0	20.94	0	0
03130012	2.21	0	2.21	0	0
03140103	1.33	0	1.33	0	0
03140104	.06	0	.06	0	0
03140106	10.97	0	10.97	0	0
03140107	9.75	0	9.75	0	0
03140201	20.55	0	20.55	0	0
03140202	16.10	0	16.10	0	0
03140203	.23	0	.23	0	0
03140301	6.43	0	6.43	0	0
03140302	1.05	0	1.05	0	0
03140303	2.14	0	2.14	0	0
03140304	10.54	0	10.54	0	0
03140305	4.73	0	4.73	0	0
03150105	5.32	0	5.32	0	0
03150106	39.00	0	39.00	0	0
03150107	9.57	0	9.57	0	0
03150108	2.23	0	2.23	0	0
03150109	5.87	0	5.87	0	0
03150110	10.75	0	10.75	0	0
03150201	32.34	0	32.34	0	0
03150202	14.24	0	14.24	0	0
03150203	18.99	0	18.99	0	0
03150204	7.33	0	7.33	0	0
03160101	.14	0	.14	0	0
03160103	1.37	0	1.37	0	0
03160105	1.73	0	1.73	0	0
03160106	9.14	0	9.14	0	0
03160107	2.21	0	2.21	0	0
03160108	1.74	0	1.74	0	0
03160109	15.59	0	15.59	0	.05
03160110	3.19	0	3.19	0	0
03160111	26.19	0	26.19	0	0
03160112	12.93	0	12.93	0	0
03160113	50.49	0	50.49	0	0
03160201	11.99	0	11.99	0	0
03160202	2.25	0	2.25	0	0
03160203	12.20	0	12.20	0	0
03160204	25.82	0	25.82	0	0
03160205	15.04	0	15.04	0	0
03170002	.06	0	.06	0	0
03170003	0	0	0	0	0
03170008	6.93	0	6.93	0	0
03170009	.44	0	.44	0	0
06020001	.09	0	.09	0	0
06030001	11.89	0	11.89	0	0
06030002	33.26	0	33.26	0	0
06030003	0	0	0	0	0
06030004	1.21	0	1.21	0	0
06030005	20.57	0	20.57	0	0
06030006	2.24	0	2.24	0	0
Total	532.34	0	532.34	0	0.05

Table 49. Total water use, by category and hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
03130002	9.22	0	0	0	0.50	0	5.79	0	0	0	0	0	0.73	0	0.23	0	16.47	0
03130003	13.13	0	0	0	.78	0	26.06	0	0	0	0	0	1.54	0	1.49	0	43.00	0
03130004	8.46	0	0	0	.13	0	.22	0	85.82	0	0	0	.95	0	18.68	0	114.26	0
03130012	3.93	0	0	0	.60	0	0	0	0	0	0	0	.49	0	.45	0	5.47	0
03140103	2.13	0	0	0	.11	0	.78	0	0	0	0	.01	.70	0	0	0	3.72	.01
03140104	0	0	0	0	.05	0	0	0	0	0	0	.17	.01	0	0	0	.06	.17
03140106	2.91	0	0	0	.66	0	.01	0	0	0	0	.09	.18	0	9.83	0	13.59	.09
03140107	4.68	0	0	0	.19	0	0	0	0	0	0	.02	.18	0	8.87	0	13.92	.02
03140201	17.36	0	4.59	0	3.26	0	.77	0	0	0	0	0	3.08	0	11.43	0	40.49	0
03140202	5.49	0	0	0	.88	0	0	0	0	0	0	.01	2.38	0	12.28	0	21.03	.01
03140203	.36	0	0	0	.07	0	0	0	0	0	0	0	.13	0	0	0	.56	0
03140301	4.50	0	0	0	.03	0	0	0	4.81	0	0	.01	1.55	0	4.33	0	15.22	.01
03140302	1.02	0	0	0	.22	0	0	0	0	0	0	.01	.33	0	.42	0	1.99	.01
03140303	2.36	0	0	0	.49	0	.21	0	0	0	0	.01	1.23	0	0	0	4.29	.01
03140304	3.37	0	0	0	.69	0	36.31	0	0	0	.01	1.15	.37	0	.85	0	41.60	1.15
03140305	2.11	0	0	0	.55	0	.51	0	0	0	.01	.54	.22	0	3.62	0	7.02	.54
03150105	3.07	0	0	0	.44	0	.05	0	0	0	0	0	1.05	0	3.60	0	8.21	0
03150106	63.58	0	0	0	1.45	0	96.02	0	140.00	0	0	.02	2.62	0	12.88	0	316.55	.02
03150107	15.91	0	0	0	1.99	0	60.19	0	700.02	0	0	.04	1.56	0	.16	0	779.83	.04
03150108	.95	0	0	0	1.24	0	.82	0	0	0	0	0	.67	0	0	0	3.68	0
03150109	13.52	0	0	0	1.90	0	0	0	0	0	0	0	1.62	0	.78	0	17.82	0
03150110	17.07	0	.06	0	2.49	0	2.08	0	0	0	0	0	2.07	0	3.71	0	27.48	0
03150201	71.97	0	.01	0	2.40	0	73.38	0	0	0	0	0	4.16	0	7.36	0	159.28	0
03150202	64.13	0	.08	0	1.18	0	.23	0	0	0	0	.35	4.54	0	2.28	0	72.44	.35
03150203	1.57	0	0	0	1.21	0	19.87	0	0	0	0	.01	14.20	0	.52	0	37.37	.01
03150204	4.52	0	0	0	.57	0	57.34	0	0	0	0	.25	.31	0	.42	0	63.16	.25
03160101	.44	0	0	0	.04	0	0	0	0	0	0	0	.07	0	0	0	.55	0
03160103	2.33	0	0	0	.37	0	0	0	0	0	.10	.04	.89	0	0	0	3.69	.04
03160105	2.71	0	0	0	.35	0	.54	0	0	0	.19	.08	.90	0	0	0	4.69	.08
03160106	2.77	0	0	0	.50	0	.27	0	0	0	0	.01	7.61	0	.59	0	11.74	.01
03160107	1.48	0	0	0	.74	0	0	0	0	0	.38	.36	.30	0	1.00	0	3.90	.36
03160108	0	0	0	0	.09	0	0	0	0	0	0	0	1.65	0	0	0	1.74	0
03160109	68.83	0	0	0	.99	0	2.88	0	849.18	0	4.40	.04	2.21	0	.36	0	928.85	.04
03160110	3.14	0	0	0	1.17	0	0	0	0	0	0	0	1.43	0	0	0	5.74	0
03160111	57.56	0	0	0	5.87	0	.43	0	24.78	0	1.01	.76	1.38	0	.92	0	91.95	.76
03160112	26.81	0	0	0	4.81	0	0	0	0	0	4.24	2.37	.45	0	.48	0	36.79	2.37
03160113	4.36	0	0	0	1.64	0	2.80	0	310.02	0	0	.53	43.56	0	.50	0	362.88	.53
03160201	2.20	0	0	0	1.38	0	75.31	0	0	0	.03	1.35	4.73	0	0	0	83.65	1.35
03160202	2.35	0	0	0	.08	0	0	0	0	0	0	0	1.95	0	0	0	4.38	0
03160203	3.61	0	0	0	.75	0	39.12	0	66.80	0	0	.22	1.06	0	.31	0	111.65	.22

[1]Includes stock and animal specialties.

Table 49. Total water use, by category and hydrologic cataloging unit, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
03160204	10.93	0	0.14	0	2.03	0	3.63	0	934.97	0	0.26	0.27	0.40	0	0.65	0	953.01	0.27
03160205	7.01	0	0	0	3.03	0	.07	0	0	0	.08	.11	.53	0	6.72	0	17.44	.11
03170002	0	0	0	0	.06	0	0	0	0	0	.01	.02	0	0	0	0	.07	.02
03170003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03170008	140.97	0	0	0	2.60	0	0	0	0	0	.21	.17	.27	0	3.84	0	147.89	.17
03170009	1.02	0	0	0	.25	0	.13	0	0	0	.05	.04	.02	0	0	0	1.47	.04
06020001	0	0	0	0	.09	0	0	0	0	0	0	0	0	0	0	0	.09	0
06030001	19.92	0	0	0	2.68	0	4.52	0	1,286.00	0	0	0	3.61	0	.54	0	1,317.27	0
06030002	87.55	0	0	0	6.03	0	109.21	0	776.00	0	0	0	4.29	0	10.77	0	993.85	0
06030003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06030004	.12	0	0	0	1.03	0	0	0	0	0	0	0	.14	0	.03	0	1.32	0
06030005	23.87	0	0	0	.91	0	113.59	0	18.90	0	0	0	3.22	0	7.60	0	168.09	0
06030006	5.23	0	0	0	.33	0	0	0	0	0	0	0	1.19	0	.03	0	6.78	0
Total	812.53	0	4.88	0	61.90	0	733.14	0	5,197.30	0	10.98	9.06	128.73	0	138.53	0	7,087.99	9.06

[1]Includes stock and animal specialties.

Table 50. Total ground-water use, by category and hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
03130002	0	0	0	0	0.50	0	0	0	0	0	0	0	0.22	0	0.04	0	0.76	0
03130003	4.48	0	0	0	.78	0	1.03	0	0	0	0	0	.33	0	0	0	6.62	0
03130004	8.46	0	0	0	.13	0	.22	0	.02	0	0	0	.20	0	11.20	0	20.23	0
03130012	3.93	0	0	0	.60	0	0	0	0	0	0	0	.09	0	.25	0	4.87	0
03140103	2.13	0	0	0	.11	0	.78	0	0	0	0	.01	.14	0	0	0	3.16	.01
03140104	0	0	0	0	.05	0	0	0	0	0	0	.17	0	0	0	0	.05	.17
03140106	2.91	0	0	0	.66	0	.01	0	0	0	0	.09	.08	0	8.31	0	11.97	.09
03140107	4.68	0	0	0	.19	0	0	0	0	0	0	.02	.12	0	7.32	0	12.31	.02
03140201	17.36	0	4.59	0	3.26	0	.77	0	0	0	0	0	.77	0	2.13	0	28.88	0
03140202	5.49	0	0	0	.88	0	0	0	0	0	0	.01	.52	0	.13	0	7.02	.01
03140203	.36	0	0	0	.07	0	0	0	0	0	0	0	.06	0	0	0	.49	0
03140301	4.50	0	0	0	.03	0	0	0	0	0	0	.01	.30	0	2.05	0	6.88	.01
03140302	1.02	0	0	0	.22	0	0	0	0	0	0	.01	.13	0	.20	0	1.57	.01
03140303	2.36	0	0	0	.49	0	.21	0	0	0	0	.01	.21	0	0	0	3.27	.01
03140304	3.37	0	0	0	.69	0	.79	0	0	0	.01	1.15	.13	0	0	0	4.99	1.15
03140305	2.11	0	0	0	.55	0	.51	0	0	0	.01	.54	.07	0	2.52	0	5.77	.54
03150105	.34	0	0	0	.44	0	.05	0	0	0	0	0	.23	0	.06	0	1.12	0
03150106	36.38	0	0	0	1.45	0	2.56	0	0	0	0	.02	.86	0	.34	0	41.59	.02
03150107	7.60	0	0	0	1.99	0	0	0	0	0	0	.04	.30	0	.01	0	9.90	.04
03150108	.06	0	0	0	1.24	0	.82	0	0	0	0	0	.24	0	0	0	2.36	0
03150109	.01	0	0	0	1.90	0	0	0	0	0	0	0	.39	0	0	0	2.30	0
03150110	3.63	0	.06	0	2.49	0	0	0	0	0	0	0	.35	0	.33	0	6.86	0
03150201	47.85	0	.01	0	2.40	0	2.71	0	0	0	0	0	1.28	0	1.01	0	55.26	0
03150202	16.46	0	.08	0	1.18	0	.23	0	0	0	0	.35	1.05	0	1.04	0	20.04	.35
03150203	1.57	0	0	0	1.21	0	0	0	0	0	0	.01	2.26	0	.52	0	5.56	.01
03150204	4.52	0	0	0	.57	0	.27	0	0	0	0	.25	.12	0	.29	0	5.77	.25
03160101	.44	0	0	0	.04	0	0	0	0	0	0	0	.03	0	0	0	.51	0
03160103	.50	0	0	0	.37	0	0	0	0	0	.10	.04	.14	0	0	0	1.11	.04
03160105	2.25	0	0	0	.35	0	.54	0	0	0	.19	.08	.12	0	0	0	3.45	.08
03160106	2.77	0	0	0	.50	0	.27	0	0	0	0	.01	.60	0	.31	0	4.45	.01
03160107	.21	0	0	0	.74	0	0	0	0	0	.10	.36	.09	0	0	0	1.14	.36
03160108	0	0	0	0	.09	0	0	0	0	0	0	0	.02	0	0	0	.11	0
03160109	.74	0	0	0	.99	0	0	0	0	0	1.10	.04	.82	0	0	0	3.65	.04
03160110	.15	0	0	0	1.17	0	0	0	0	0	0	0	.49	0	0	0	1.81	0
03160111	4.54	0	0	0	5.87	0	.43	0	0	0	.25	.76	.53	0	.08	0	11.70	.76
03160112	.43	0	0	0	4.81	0	0	0	0	0	1.58	2.37	.12	0	.10	0	7.04	2.37
03160113	4.36	0	0	0	1.64	0	1.00	0	.02	0	0	.53	3.87	0	.16	0	11.05	.53
03160201	2.20	0	0	0	1.38	0	1.37	0	0	0	.03	1.35	.73	0	0	0	5.71	1.35
03160202	.22	0	0	0	.08	0	0	0	0	0	0	0	.13	0	0	0	.43	0
03160203	2.03	0	0	0	.75	0	7.53	0	0	0	0	.22	.15	0	0	0	10.46	.22

[1]Includes stock and animal specialties.

Table 50. Total ground-water use, by category and hydrologic cataloging unit, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
03160204	6.44	0	0.14	0	2.03	0	2.43	0	5.99	0	0.26	0.27	0.10	0	0.28	0	17.67	0.27
03160205	7.01	0	0	0	3.03	0	.07	0	0	0	.08	.11	.24	0	4.88	0	15.31	.11
03170002	0	0	0	0	.06	0	0	0	0	0	.01	.02	0	0	0	0	.07	.02
03170003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03170008	2.34	0	0	0	2.60	0	0	0	0	0	.21	.17	.04	0	3.30	0	8.49	.17
03170009	1.02	0	0	0	.25	0	.13	0	0	0	.05	.04	.01	0	0	0	1.46	.04
06020001	0	0	0	0	.09	0	0	0	0	0	0	0	0	0	0	0	.09	0
06030001	1.98	0	0	0	2.68	0	.22	0	0	0	0	0	1.06	0	0	0	5.94	0
06030002	29.57	0	0	0	6.03	0	7.82	0	0	0	0	0	1.26	0	.93	0	45.61	0
06030003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06030004	.12	0	0	0	1.03	0	0	0	0	0	0	0	.06	0	0	0	1.21	0
06030005	1.16	0	0	0	.91	0	1.02	0	0	0	0	0	.72	0	3.02	0	6.83	0
06030006	.60	0	0	0	.33	0	0	0	0	0	0	0	.28	0	0	0	1.21	0
Total	252.66	0	4.88	0	61.90	0	33.79	0	6.03	0	3.98	9.06	22.06	0	50.81	0	436.11	9.06

[1] Includes stock and animal specialties.

Table 51. Total surface-water use, by category and hydrologic cataloging unit, in Alabama, 1995

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
03130002	9.22	0	0	0	0	0	5.79	0	0	0	0	0	0.51	0	0.19	0	15.71	0
03130003	8.65	0	0	0	0	0	25.03	0	0	0	0	0	1.21	0	1.49	0	36.38	0
03130004	0	0	0	0	0	0	0	0	85.80	0	0	0	.75	0	7.48	0	94.03	0
03130012	0	0	0	0	0	0	0	0	0	0	0	0	.40	0	.20	0	.60	0
03140103	0	0	0	0	0	0	0	0	0	0	0	0	.56	0	0	0	.56	0
03140104	0	0	0	0	0	0	0	0	0	0	0	0	.01	0	0	0	.01	0
03140106	0	0	0	0	0	0	0	0	0	0	0	0	.10	0	1.52	0	1.62	0
03140107	0	0	0	0	0	0	0	0	0	0	0	0	.06	0	1.55	0	1.61	0
03140201	0	0	0	0	0	0	0	0	0	0	0	0	2.31	0	9.30	0	11.61	0
03140202	0	0	0	0	0	0	0	0	0	0	0	0	1.86	0	12.15	0	14.01	0
03140203	0	0	0	0	0	0	0	0	0	0	0	0	.07	0	0	0	.07	0
03140301	0	0	0	0	0	0	0	0	4.81	0	0	0	1.25	0	2.28	0	8.34	0
03140302	0	0	0	0	0	0	0	0	0	0	0	0	.20	0	.22	0	.42	0
03140303	0	0	0	0	0	0	0	0	0	0	0	0	1.02	0	0	0	1.02	0
03140304	0	0	0	0	0	0	35.52	0	0	0	0	0	.24	0	.85	0	36.61	0
03140305	0	0	0	0	0	0	0	0	0	0	0	0	.15	0	1.10	0	1.25	0
03150105	2.73	0	0	0	0	0	0	0	0	0	0	0	.82	0	3.54	0	7.09	0
03150106	27.20	0	0	0	0	0	93.46	0	140.00	0	0	0	1.76	0	12.54	0	274.96	0
03150107	8.31	0	0	0	0	0	60.19	0	700.02	0	0	0	1.26	0	.15	0	769.93	0
03150108	.89	0	0	0	0	0	0	0	0	0	0	0	.43	0	0	0	1.32	0
03150109	13.51	0	0	0	0	0	0	0	0	0	0	0	1.23	0	.78	0	15.52	0
03150110	13.44	0	0	0	0	0	2.08	0	0	0	0	0	1.72	0	3.38	0	20.62	0
03150201	24.12	0	0	0	0	0	70.67	0	0	0	0	0	2.88	0	6.35	0	104.02	0
03150202	47.67	0	0	0	0	0	0	0	0	0	0	0	3.49	0	1.24	0	52.40	0
03150203	0	0	0	0	0	0	19.87	0	0	0	0	0	11.94	0	0	0	31.81	0
03150204	0	0	0	0	0	0	57.07	0	0	0	0	0	.19	0	.13	0	57.39	0
03160101	0	0	0	0	0	0	0	0	0	0	0	0	.04	0	0	0	.04	0
03160103	1.83	0	0	0	0	0	0	0	0	0	0	0	.75	0	0	0	2.58	0
03160105	.46	0	0	0	0	0	0	0	0	0	0	0	.78	0	0	0	1.24	0
03160106	0	0	0	0	0	0	0	0	0	0	0	0	7.01	0	.28	0	7.29	0
03160107	1.27	0	0	0	0	0	0	0	0	0	.28	0	.21	0	1.00	0	2.76	0
03160108	0	0	0	0	0	0	0	0	0	0	0	0	1.63	0	0	0	1.63	0
03160109	68.09	0	0	0	0	0	2.88	0	849.18	0	3.30	0	1.39	0	.36	0	925.20	0
03160110	2.99	0	0	0	0	0	0	0	0	0	0	0	.94	0	0	0	3.93	0
03160111	53.02	0	0	0	0	0	0	0	24.78	0	.76	0	.85	0	.84	0	80.25	0
03160112	26.38	0	0	0	0	0	0	0	0	0	2.66	0	.33	0	.38	0	29.75	0
03160113	0	0	0	0	0	0	1.80	0	310.00	0	0	0	39.69	0	.34	0	351.83	0
03160201	0	0	0	0	0	0	73.94	0	0	0	0	0	4.00	0	0	0	77.94	0
03160202	2.13	0	0	0	0	0	0	0	0	0	0	0	1.82	0	0	0	3.95	0
03160203	1.58	0	0	0	0	0	31.59	0	66.80	0	0	0	.91	0	.31	0	101.19	0

[1]Includes stock and animal specialties.

Table 51. Total surface-water use, by category and hydrologic cataloging unit, in Alabama, 1995—Continued

[Mgal/d, million gallons per day]

Hydrologic unit (fig. 2)	Public supply, in Mgal/d		Commercial, in Mgal/d		Domestic, in Mgal/d		Industrial, in Mgal/d		Thermoelectric, in Mgal/d		Mining, in Mgal/d		Livestock,[1] in Mgal/d		Irrigation, in Mgal/d		Total, in Mgal/d	
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline	Fresh	Saline
03160204	4.49	0	0	0	0	0	1.20	0	928.98	0	0	0	0.30	0	0.37	0	935.34	0
03160205	0	0	0	0	0	0	0	0	0	0	0	0	.29	0	1.84	0	2.13	0
03170002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03170003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03170008	138.63	0	0	0	0	0	0	0	0	0	0	0	.23	0	.54	0	139.40	0
03170009	0	0	0	0	0	0	0	0	0	0	0	0	.01	0	0	0	.01	0
06020001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06030001	17.94	0	0	0	0	0	4.30	0	1,286.00	0	0	0	2.55	0	.54	0	1,311.33	0
06030002	57.98	0	0	0	0	0	101.39	0	776.00	0	0	0	3.03	0	9.84	0	948.24	0
06030003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06030004	0	0	0	0	0	0	0	0	0	0	0	0	.08	0	.03	0	.11	0
06030005	22.71	0	0	0	0	0	112.57	0	18.90	0	0	0	2.50	0	4.58	0	161.26	0
06030006	4.63	0	0	0	0	0	0	0	0	0	0	0	.91	0	.03	0	5.57	0
Total	559.87	0	0	0	0	0	699.35	0	5,191.27	0	7.00	0	106.67	0	87.72	0	6,651.88	0

[1] Includes stock and animal specialties.

GLOSSARY

(Continued from inside front cover)

Reclaimed wastewater. Wastewater-treatment plant effluent that has been diverted or intercepted for some beneficial use before it reaches a natural waterway or aquifer. For this report, reclaimed includes wastewater-treatment plant effluent that is used for landscape irrigation (such as golf courses, cemeteries, highway medians, parks, playgrounds, school yards, nurseries, and commercial or residential properties) and agricultural irrigation (such as food and fruit crops, wholesale nurseries, sod farms, and pasture grass). It does not include reclaimed water that is used for esthetic uses, environmental enhancement, groundwater recharge, or wetland restoration.

Saline water. Water that contains more than 1,000 mg/L of dissolved solids.

Surface water. An open body of water, such as a stream or a lake.

Thermoelectric power. Electrical power generated by using fossil fuel (coal, oil, or natural gas), geothermal, or nuclear energy.

Thermoelectric-power water use. Water used in the process of thermoelectric-power generation. The water may be obtained from a public supply or it may be self supplied. Water used for thermoelectric-power generation purposes is an offstream use of water and generally is considered nonconsumptive.

Wastewater. A combination of liquid and water-carried pollutants from residences, commercial buildings, industrial plants, and institutions, including any ground water, surface runoff, or leachate that may be present.

Withdrawal. Water removed from the ground or diverted from a surface-water source for use.

CONVERSION FACTORS

Multiply	By	To obtain
	Length	
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
	Area	
acre	4,047	square meter
	0.4047	square hectometer
	Volume	
acre-foot (acre-ft)	1,233	cubic meter
	0.001233	cubic hectometer
thousand acre-feet	1,233,000	cubic meter
	1.233	cubic hectometer
	Flow	
gallon per day (gal/d)	0.003785	cubic meter per day
million gallons per day (Mgal/d)	0.04381	cubic meter per second
	0.003785	million cubic meters per day
	1.3815	million cubic meters per year
thousand acre-feet per year	0.003377	million cubic meters per day
	Energy	
kilowatthour (kWh)	3,600,000	joule
gigawatthour (GWh)	1,000	megawatthour
	1,000,000	kilowatthour