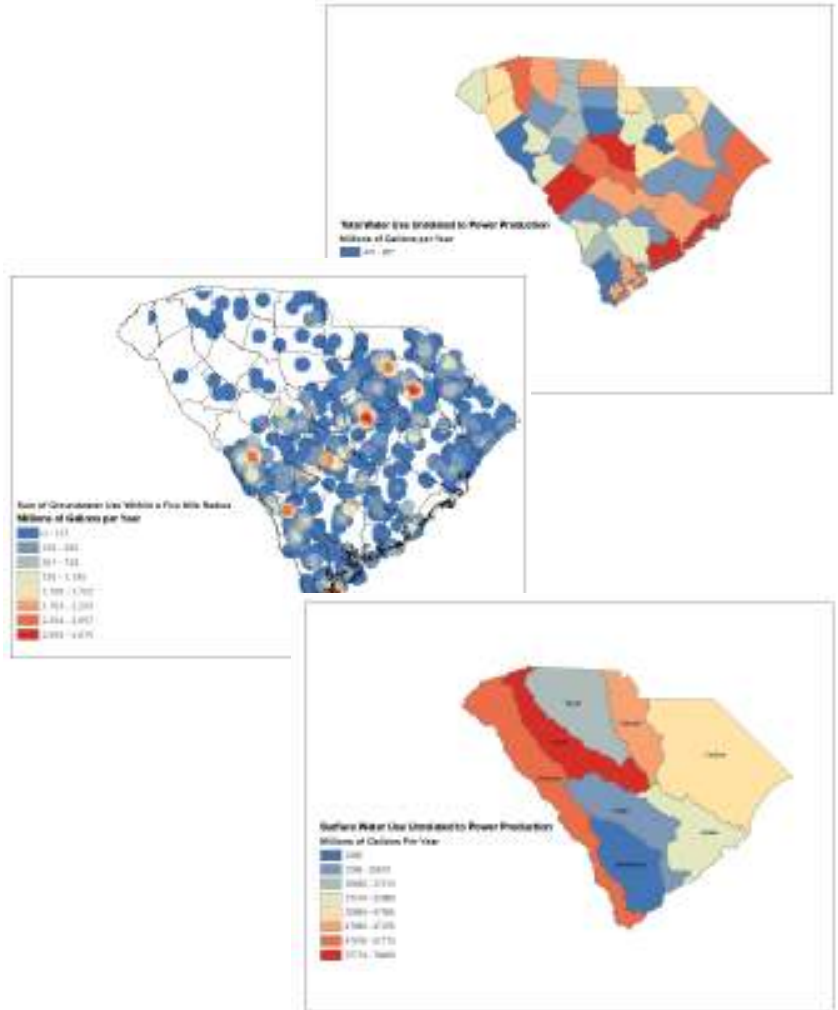


Bureau of Water

South Carolina Department of Health and Environmental Control

South Carolina Water Use Report 2009 Annual Summary



www.scdhec.net/water





South Carolina Water Use Report 2009 Summary

**South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, SC 29201**

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**Bureau of Water
July 2010**

Definitions

Aquifer – A geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs. An alternate definition includes saturated material capable of providing economically viable amounts of water to wells or springs.

Aquaculture water use (water use category) – Water used for raising, farming and/or harvesting of organisms that live in water, such as fish, shrimp and other shellfish and vegetal matter (seaweed).

Consumptive water use – The amount of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise removed from the immediate water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.

Effluent (wastewater) – Water conveyed out of a wastewater treatment facility or other works used for the purpose of treating, stabilizing, or holding wastewater. Effluent is often highly treated and is an excellent option for reuse of wastewater for irrigation.

Evapotranspiration – Collective term, including water discharged to the atmosphere as a result of evaporation from the soil and surface-water bodies and plant transpiration.

Fall Line – The geologic and physiographic surface boundary separating the sedimentary deposits of the Coastal Plain from the metamorphic and igneous rocks of the Piedmont.

Farm – Any operation from which \$1000.00 or more of agricultural products were sold or normally would be sold during the year.

Golf course irrigation (water use category) – Water applied to maintain golf course turf, including tee boxes, fairways, putting greens, associated practice areas and periphery aesthetic landscaping.

Groundwater – Generally, all subsurface water as distinct from surface water; specifically, that part of the subsurface water in the saturated zone.

Hydroelectric water use (water use category) – Water used in generating electricity where turbine generators are driven by falling water.

Industrial water use (water use category) – Water used for commercial and industrial purposes, including fabrication, processing, washing, in-plant conveyance and cooling.

Irrigated acreage – Acreage capable of being irrigated, with regard to availability of water, suitable soils and topography of land.

Irrigation water use (water use category) – Water that is used for agricultural and landscaping purposes including turf farming and livestock management.

Mining water use (water use category) – Water that is used for in conjunction with surface or subsurface mining of minerals or natural materials

Other use (water use category) – Any use of surface water or groundwater not specifically identified in any of the other categories.

Reclaimed water – Wastewater treatment plant effluent that has been diverted, intercepted, or otherwise conveyed for use before it reaches a natural waterway or aquifer.

Surface water – Water flowing or stored on the earth’s surface such as a stream, lake, or reservoir.

Thermoelectric water use (water use category) – Water used in generating electricity from fossil fuel (coal, oil, natural gas), geothermal, biomass, solid waste, or nuclear energy.

Water supply (water use category) – Water withdrawn by public and private water suppliers and conveyed to users or groups of users. Water suppliers provide water for a variety of uses including domestic, commercial, industrial and public water use.

Water usage rates – As utilized in this report, measurements to quantitatively represent volumetric withdrawals per unit of time; as in gallons per minute (gpm), gallons per day (gpd) and gallons per year (gpy). Unless otherwise stated, figures in this report are presented in millions of gallons per year.

Water use – Generally, water that is used for a specific purpose (i.e., domestic use, industrial, etc.). Broadly, human interaction with and influence on the hydrologic cycle, and includes water withdrawal, distribution, consumptive use, wastewater collection and return flow.

Withdrawal – The removal of surface water or groundwater from its current setting in the natural hydrologic system for use, including, but not limited to, water supply, industrial use, commercial use, domestic use, irrigation, livestock, power generation

Forward

The South Carolina Department of Health and Environmental Control (DHEC) is committed to the responsible management of South Carolina's water resources by encouraging continued conservation and reasonable use to ensure a sustainable supply for present and future demands. The South Carolina *Surface Water Withdrawal and Reporting Act*, §49-4-10 et. seq., and the South Carolina *Groundwater Use and Reporting Act*, §49-5-10 et. seq., require water users that withdraw three (3) million gallons or greater in any month to register with and report that use annually to the Water Use Program at DHEC.

Water Use data is used by the State of South Carolina to better define the distribution and demand for our surface and groundwater resources across the state. Data from the Water Use Program at DHEC is shared between other local, state, and federal regulatory and scientific agencies to establish a common understanding of the demands placed upon our water resources. This common database has proven critical in water management decisions and water use conflict resolution.

Statistics utilized in this report represent data obtained from users registered with the Water Use Program. Consumptive use from private domestic wells, small surface water irrigation intakes, facilities that do not meet the reporting threshold, or data from facilities failing to report their annual water use are not included in this annual summary. For the year 2009, compliance of reporting facilities exceeded 99%.

If you have questions about this or previous Annual Water Use Reports, or would like to obtain further information about reported water withdrawals in South Carolina, please contact:

**Water Use Program
SCDHEC Bureau of Water
2600 Bull Street
Columbia, SC 29201
www.scdhec.net/water**

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Introduction

South Carolinians have enjoyed an available fresh water supply that is clean, abundant, and easily attainable. In South Carolina today, close to 1.2 million people rely on groundwater and 2.8 million people rely on surface water for their drinking water and other uses. According to the U.S. Census Bureau, South Carolina will increase its population by 600,000 (Appendix C) people by 2025 and the U.S. Department of Agriculture reports development converts approximately 100,000 acres per year to urban uses. This growth and development in the state has placed increasing demand on our water supplies. With limited and sporadic rainfall events, groundwater systems and surface water bodies under continuous natural discharge and, in recent years, human use (pumpage) showed steady and, at times, drastic water level declines with numerous waterways reaching record low flow conditions. Due to the low flow conditions, excursions of saltwater inland along coastal waterways threatened some surface water intakes. Some homeowners that rely on shallow water wells have been forced to drill deeper wells or seek alternate sources of water supply.

In conjunction with natural conditions, the continued impact to groundwater systems through human induced contamination (physical and chemical) or natural impact demonstrate the vulnerability of this finite resource and the continuing need to closely monitor, manage and preserve the resource in South Carolina for current and future generations. The state General Assembly declared that,

“...the groundwater resources of the State be put to beneficial use to the fullest extent to which they [are] capable and to provide and maintain conditions which are conducive to the development and use of all water resources.”

Consistent and accurate data collection is requisite in establishing water use trends and implementing reasonable management strategies. Water use reporting outside of designated Capacity Use Areas has been historically voluntary. As of January 1, 2001, anyone withdrawing groundwater or surface water in excess of three (3) million gallons per month (in any month) must register and report that use annually to the South Carolina Department of Health and Environmental Control (Department). Registration and reporting is now a requirement of law and the Department has authority to take enforcement action against those not reporting.

Purpose and Methodology

The purpose of the annual *South Carolina Water Use Report* is to summarily present reported water use in South Carolina by county and use category during calendar year 2009. The Department maintains and continually updates the water use and facility databases utilized in this report. Water use data were collected by annual reporting of water use by registered users, as required and mandated by state law, and are reported in **millions of gallons** unless stated otherwise.

South Carolina Climate

The climate in South Carolina is affected by many factors, notably its location in the mid-latitudes and its proximity to the Appalachian Mountains and the Atlantic Ocean. During the summer, ocean current-driven air masses such as the Bermuda High routinely push tropical air from the Gulf of Florida upland from the coast. These warm, moist currents collide with cooler, drier air masses to generate rainfall, and at times, severe thunderstorms. In contrast, the Appalachian region in the northwest portion of the state experiences cooler temperatures, owing in part to upward lifting of air masses and subsequent cooling effect provided by the increase in altitude. Altitude change also causes the additional phenomenon of down-slope heating as air masses from the mountains settle and compress over the eastern Blue Ridge and Piedmont region. During the winter months, the highlands of the Blue Ridge escarpment deflect northerly cold air to the southwest, often lessening the impact of major cold fronts and winter storms.

The vast majority of the state is classified as humid subtropical except in the Blue Ridge physiographic province, where it is humid continental. Average temperature varies from the mid-50s °F in the mountains to low-60s °F along the coast. The average annual precipitation is approximately 48 inches, with an annual total in the mountains of 70 to 80 inches, an annual total in the Midlands of 42 to 47 inches and an annual total along the coast of 50 to 52 inches. According to the South Carolina State Climatology Office, no month in South Carolina averages less than two inches of precipitation, regardless of location within the state. Measurable snowfall is rare, occurring one to three times a year with accumulations seldom remaining more than a day or two. Since 1900 severe droughts have occurred statewide in 1925, 1933, 1954, 1977, 1983, 1986, 1990, 1993, 1998, and most recently 2007. The latest multiyear drought was one of the most severe in South Carolina's history, with average precipitation, groundwater levels, and stream flows at or near record lows. In 2009 the average statewide temperature was 62.4°F. The average rainfall for 2008 was 51.86 inches¹.

¹ Southeast Regional Climate Center, 1885-2009, "Monthly and Seasonal Climate Information"

Geography and Physiography

South Carolina has a distinct natural beauty and an ecological diversity covering nearly 31,189 square miles, with approximately 30,111 square miles land area, 1,078 square miles inland or coastal waterways and 135 miles of coastline. The diversity we experience is resultant of climatic conditions, geology and three major physiographic regions: the Blue Ridge, the Piedmont and the Coastal Plain (**Figure 1**). The physiographic regions exhibit variations in topography, geology, hydrology and vegetation that directly affect the quantity, quality and availability of water resources in South Carolina.

Blue Ridge

The Blue Ridge physiographic province is located in the extreme northwest portion of Oconee and Pickens counties, and is distinguished from other parts of South Carolina by greater elevations (1,000 – 3,300 feet) and surface relief. Dissected mountains, rugged hills and thick forest regions characterize the land surface. Surface water in the Blue Ridge takes the form of high gradient creeks and streams and natural or man-made lakes, while groundwater occurs in the fractures of the bedrock and a thin veneer of soil and saprolite overlying the bedrock. In general, water quality of streams and groundwater is excellent in the Blue Ridge owing to the constant replenishment from abundant local rainfall.

Piedmont

The Piedmont physiographic province includes all counties, or portions of counties, northwest of and to the Fall Line, exclusive of those counties within the Blue Ridge province. Although similar to the Blue Ridge, the region demonstrates lower topographic relief, and therefore lower gradient streams, while elevations range from between 450 to 1000 feet above sea level. Counties in the Piedmont and Blue Ridge physiographic provinces depend primarily on the abundant regional rainfall that recharges lakes, reservoirs and major river systems. These surface water bodies constitute the primary source of water for public supply, industry, agriculture, and power production in the Piedmont Region. Similar to the Blue Ridge Province, groundwater occurs in the fractures of the bedrock and overlying soil and saprolite, and is also of good quality, except in locations where its chemical quality has been impacted by man.

Coastal Plain

The Coastal Plain physiographic province includes all counties, or portions of counties, extending from the Fall Line east to the Atlantic Ocean. Elevations of the exposed Coastal Plain range between 450 feet to sea level. Once below the Fall Line, rivers and streams assume a different character than those found in the Piedmont. Where streams once rolled across exposed Piedmont rocks and tumbled down the occasional stretch of whitewater, the Coastal Plain streams have a slower pace with quiet meandering river channels with adjacent wetlands common. Regional geology of the Coastal Plain is characterized by aquifers developed in layers of sands, silts, or high-permeability limestone confined by units of clay and silts or low-permeability limestone. The vast majority of South Carolina's water resources are contained as groundwater in the Coastal Plain, and in general, reliance on groundwater for irrigation, industrial uses, and public water supply increases dramatically east of the Fall Line. A generalized cross-section for the Coastal Plain aquifers is presented as **Figure 2**, and a brief outline of the major aquifers in South Carolina follows.

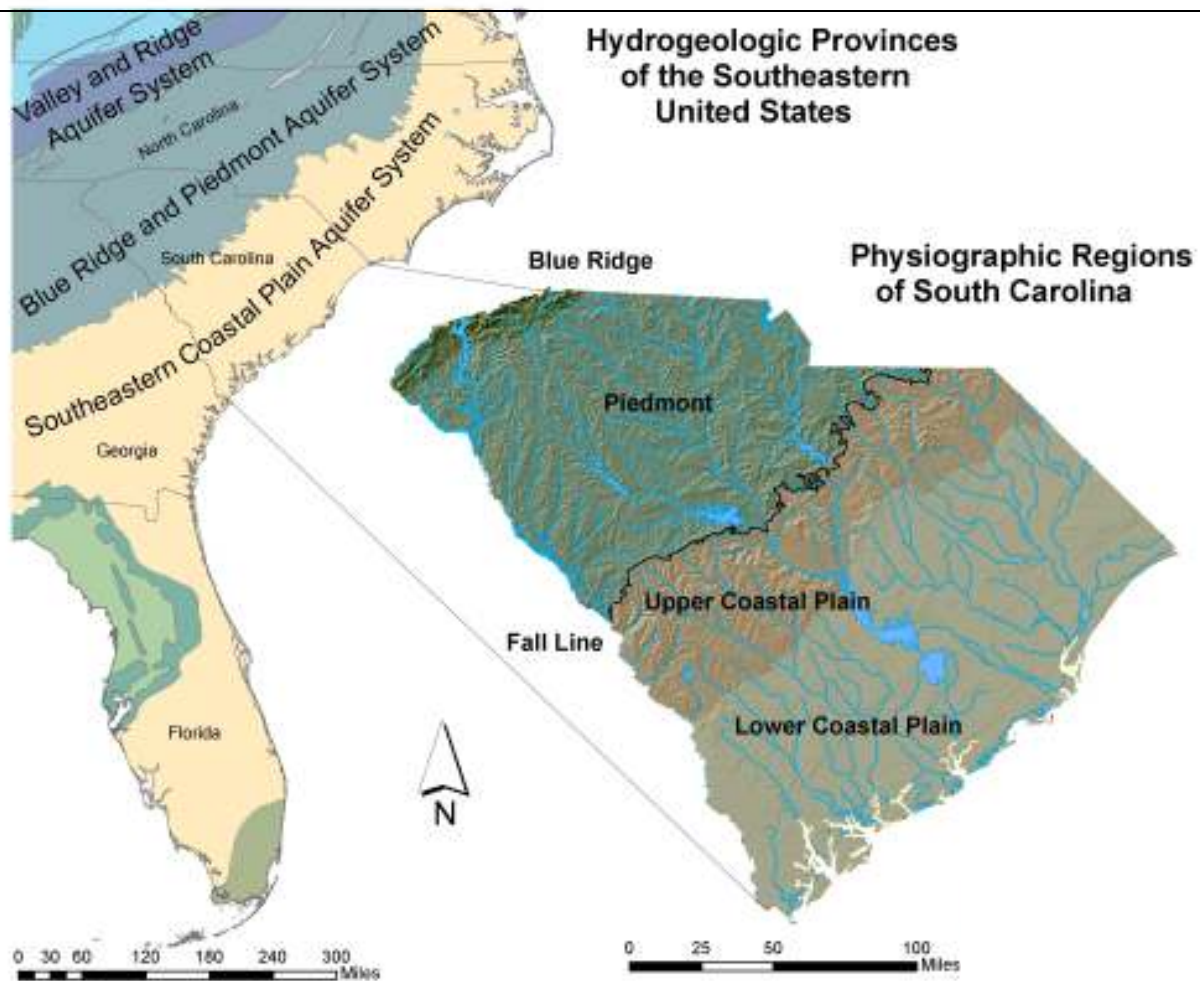


Figure 1: Hydrogeologic and Physiographic Setting for Water Use in South Carolina

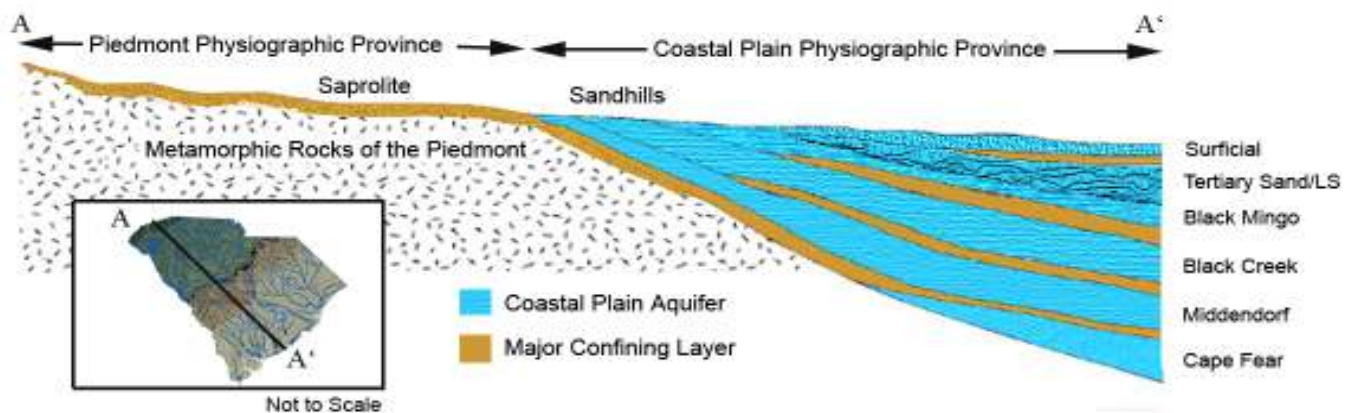


Figure 2: Generalized Hydrogeologic Cross-Section from the Blue Ridge through the Lower Coastal Plain in South Carolina

Groundwater Resources

Groundwater resources are found throughout the subsurface of South Carolina in varying quantities, qualities, and depths that reflect the nature of the geologic materials that host the respective aquifers. The following is a brief description of the State's major groundwater resources.

Crystalline Rock Aquifer System of the Blue Ridge and Piedmont

Geology of the Blue Ridge is typically characterized by clayey saprolite, ranging in depth from several feet to tens of feet, overlying metamorphic crystalline rock. The saprolite grades downward through a highly permeable transition zone to unaltered parent bedrock. Groundwater conditions of the bedrock are dependent on the number of fractures and degree of interconnection of the fracture systems. Groundwater moves slowly through the saprolite and discharges to surface water bodies, wells, or is released from storage to the underlying bedrock through fractures. Geology of the Piedmont is similar to that of the Blue Ridge, but the diminished relief allows for greater thickness of saprolite development. In general, wells in the Blue Ridge and Piedmont regions yield little water when compared to wells drilled in the Coastal Plain owing to the inherently low porosity and permeability of the crystalline rock present in the upstate.

Surficial Aquifer System

Shallow sands that comprise the Surficial aquifer are among the youngest of the Coastal Plain sediments and are found exclusively in the Lower Coastal Plain (**Figure 1**). This system is capable of producing water in modest amounts for irrigation and private drinking water supply, but is susceptible to contamination due to its shallow, unconfined nature. The Surficial sands are highly influenced by local precipitation and river stage and are prone to dramatic water level declines during times of drought.

Tertiary Limestone/Sand Aquifer System (Floridan Aquifer System)

In the southern half of the Coastal Plain, Tertiary aquifers consisting of sand grade southeastward into an ever thickening wedge of limestone. Development of the aquifer system is common in the Charleston, Dorchester, and Berkeley County area. Southwest of the Combahee and Salkehatchie Rivers, upper sections of the limestone become increasingly permeable owing to abundant voids created from dissolved marine fossils, and are capable of storing and supplying tremendous amounts of water. The upper, highly permeable zone is the most developed, supplying the majority of residential wells in Beaufort and Jasper Counties, and is the primary source of water for public supply, irrigation, and industry in the Low Country. This southern section of the Tertiary Limestone correlates regionally with the Upper Floridan Aquifer that extends from southern South Carolina to the southern keys of Florida.

Black Mingo Aquifer

Development of the Black Mingo is common in the vicinity of Charleston, Dorchester, and Berkeley counties, but has been largely overlooked south of Dorchester County owing to the increasingly prolific nature of the more shallow Tertiary Limestone (Floridan Aquifer System). Like the majority of Coastal Plain sediments, the nature of the aquifer differs dramatically from one area to the next. In the Charleston area, the aquifer is composed of permeable sand and limestone, while within the Upper Coastal Plain the Black Mingo is often a poorly producing aquifer composed of fine silt and clay, and therefore is unused in favor of the Middendorf or Tertiary Sand Aquifer.

Pee Dee Aquifer

The Pee Dee aquifer, where present, generally produces quality water at moderate rates. The aquifer matrix is composed of sand and silt separated by discontinuous intervals of clay. Development of the Pee Dee aquifer usually takes place in conjunction with the more prolific Black Creek aquifer and has become an excellent alternative to the often-overburdened Black Creek for many uses, especially irrigation. The Pee Dee aquifer is most utilized in the northeast portion of the State, with the most demand centered between Florence and Horry Counties.

Black Creek Aquifer

Though present throughout much of the Coastal Plain, development of the Black Creek aquifer has been conducted primarily in the mid-to-northern portions of the Coastal Plain. The aquifer is composed of silt and fine sand with coarse sand in the Upper Coastal Plain. The Black Creek aquifer is an important source of water for public supply, irrigation, and industry from Marion County southeast to Georgetown County.

Middendorf Aquifer

The Middendorf Aquifer is a prolific source of water throughout the majority of the coastal plain and consists of coarse-grained fluvial sands near the Fall Line that grade to fine-grained marine sands and clay in the northern and eastern Lower Coastal Plain. The majority of the Pee Dee region, including Chesterfield, Darlington, Florence, and Marlboro Counties, as well as Orangeburg and Sumter Counties rely heavily on the Middendorf for irrigation, public supply, and industrial use. In the past decade, use of the Middendorf has increased along the southern coast in areas such as Charleston County.

Cape Fear Aquifer

Little information exists from this deep sand aquifer owing to the few wells that have penetrated the formation. In general, water quality from the Cape Fear aquifer is poor over much of its extent owing to ancient, unflushed seawater and extensive mineralization. In South Carolina, the Cape Fear aquifer is largely unused.

Surface Water Resources

South Carolina's land surface is drained by eight (8) major river basins, all of which are critical to public water supply, irrigation, industry, and/or power generation. These major watersheds are shown as **Figure 3**, and a brief description of each major watershed follows.

Broad River Basin

The Broad River Watershed encompasses portions of North and South Carolina and drains the majority of Cherokee, Union, Spartanburg, and Greenville Counties. Portions of Chester, Fairfield, Richland and York counties are also included in the basin, and are drained by the Enoree, Pacolet, and Tyger Rivers, major tributary streams to the Broad River.

Catawba River Basin

Similar to the Broad River Basin, the watershed of the Catawba River drains counties in North and South Carolina east of a hydrologic divide in York, Chester, and Fairfield Counties. All or portions of the following counties lie within the basin: Chester, Fairfield, Kershaw, Lancaster, Richland, Sumter and York. The Catawba basin hosts Lake Wylie, Fishing Creek Reservoir, Lake Wateree, the Catawba and Wateree Rivers and associated tributary streams.

Edisto River Basin

The Edisto River Basin encompasses nearly all of Orangeburg County and portions of Aiken, Berkeley, Calhoun, Dorchester, and Lexington counties. The basin drains the central Coastal Plain and contains the North and South Forks of the Edisto River and tributaries, as well as numerous ecologically important wetland areas.

Pee Dee River Basin

The Pee Dee River Basin is the largest of South Carolina's watersheds and drains all or portions of Chesterfield, Darlington, Dillon, Georgetown, Horry, Kershaw, Lancaster, Lee, Marion, Marlboro, Williamsburg counties, and portions of southeastern North Carolina. The Greater Pee Dee Watershed encompasses 5.1 million acres and includes the Pee Dee, Lynches, Waccamaw, and Sampit watersheds, as well as the Intracoastal Waterway and Winyah Bay.

Salkehatchie River Basin

The Salkehatchie basin is located entirely in the Coastal Plain and drains portions of Bamberg, Barnwell, Beaufort, Colleton, Hampton, and Jasper counties. The Coosawhatchie, Salkehatchie and Little Salkehatchie Rivers, along with their associated tributaries and local wetlands drain the basin and form tide-dominated distributary channels near the coast.

Saluda River Basin

The Saluda River Basin drains the central portion of South Carolina's Piedmont Region and encompasses major portions of Greenville and Pickens counties, as well as portions of Abbeville, Greenwood, Laurens, Lexington, Richland, and Saluda Counties. The basin includes all tributary streams to the Saluda River and Lakes Greenwood and Murray, the latter being a critical source for public water supply and hydroelectric power in central South Carolina.

Santee River Basin

The Santee River basin originates near the confluence of the Congeree and Wateree Rivers and includes two of the State's largest reservoirs, Lake Marion and Lake Moultrie. These two major surface water resources are important power generating assets for the South Carolina. The basin drains Berkeley, Calhoun, Charleston, Clarendon, Dorchester, and small portions of Georgetown and Sumter Counties via tributaries of the Cooper, Santee and Ashley Rivers.

Savannah River Basin

The Savannah River Basin stretches from the Blue Ridge to the Atlantic Ocean and encompasses the border counties of South Carolina. The watershed drains major portions of Abbeville, Aiken, Allendale, Anderson, Edgefield, Greenwood, Hapton, McCormick, Oconee, and Pickens County, as well as adjacent counties in Georgia. The watershed includes the Savannah, Chatooga, Seneca, Little River, Stevens Creek, Rocky, and Tugaloo Rivers, and discharges approximately 8.0 billion gallons per day.



Figure 3: Major River Basins of South Carolina

Surface and Groundwater Use Summary by Source, Category and County in South Carolina, 2009

The following section outlines all reported water use for the State of South Carolina for the calendar year 2009. Water use is summarized by category, (Appendix A). Where appropriate, the spatial distribution of the magnitude of water use is demonstrated on an accompanying map with a breakdown chart of groundwater and surface water use as a percentage of total use for the category.

Reporting Water Withdrawers

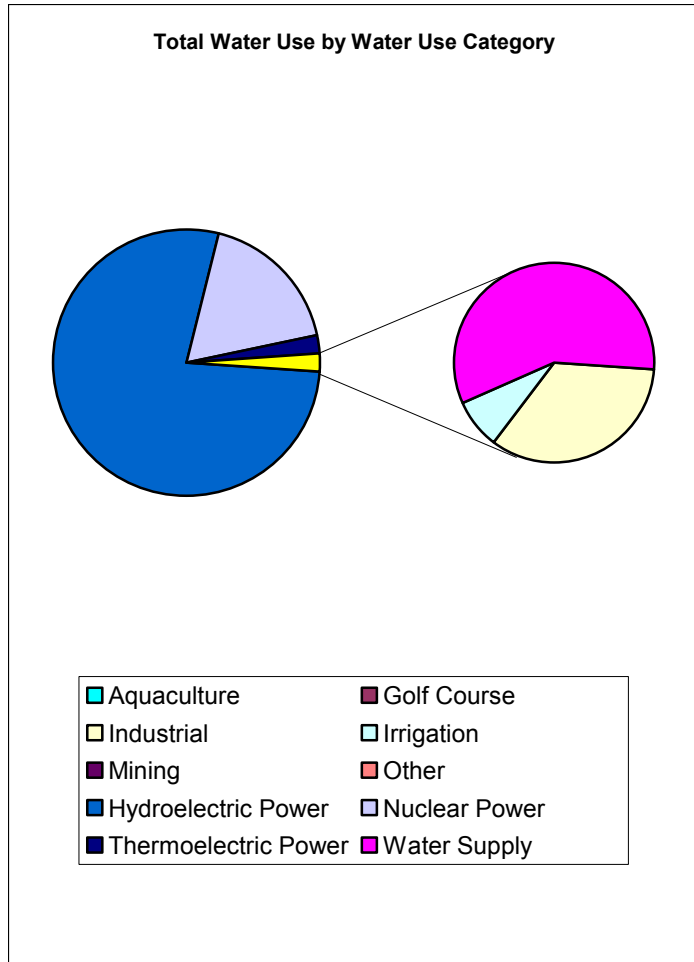
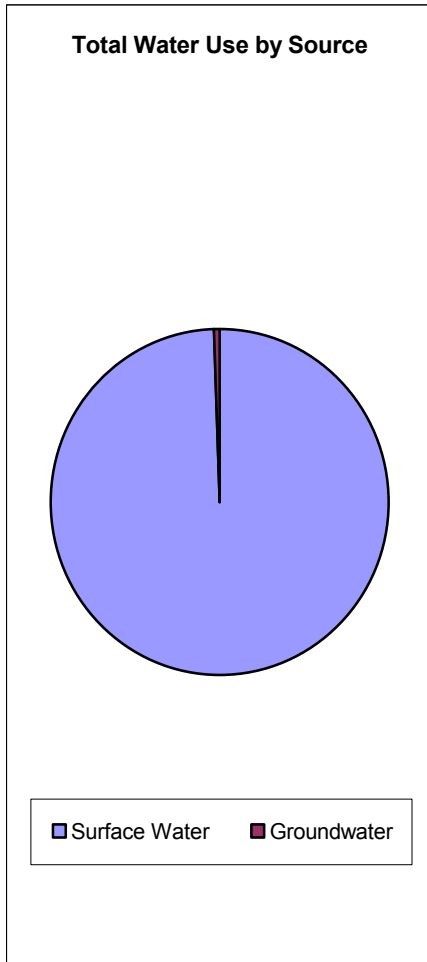
For the reporting year 2009, South Carolina had registered 871 water withdrawers with 2638 sources; 740 surface water sources and 1898 groundwater sources.

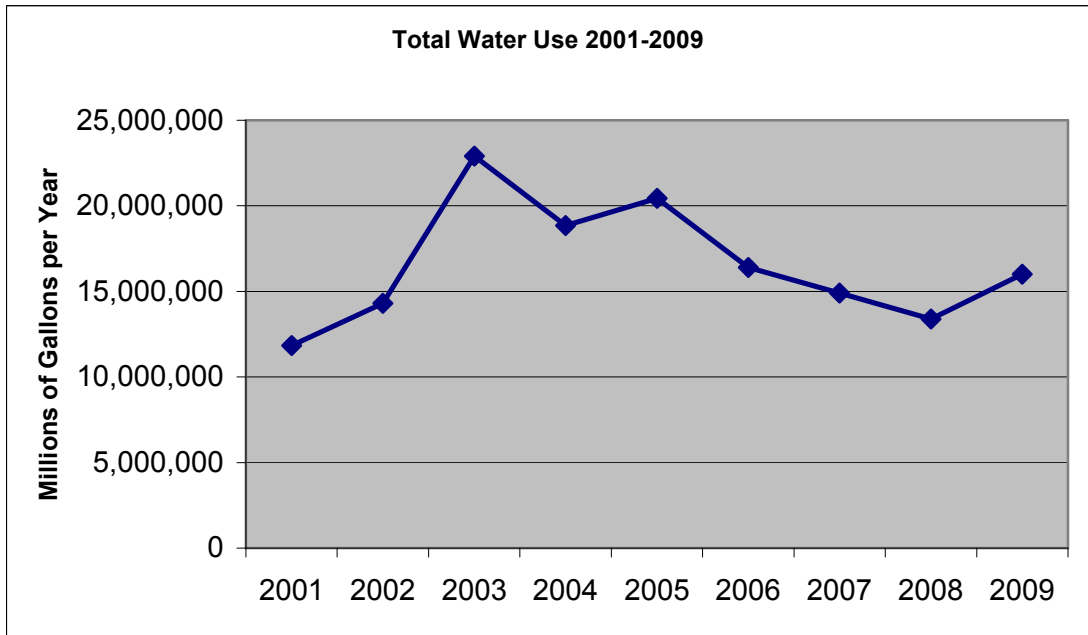
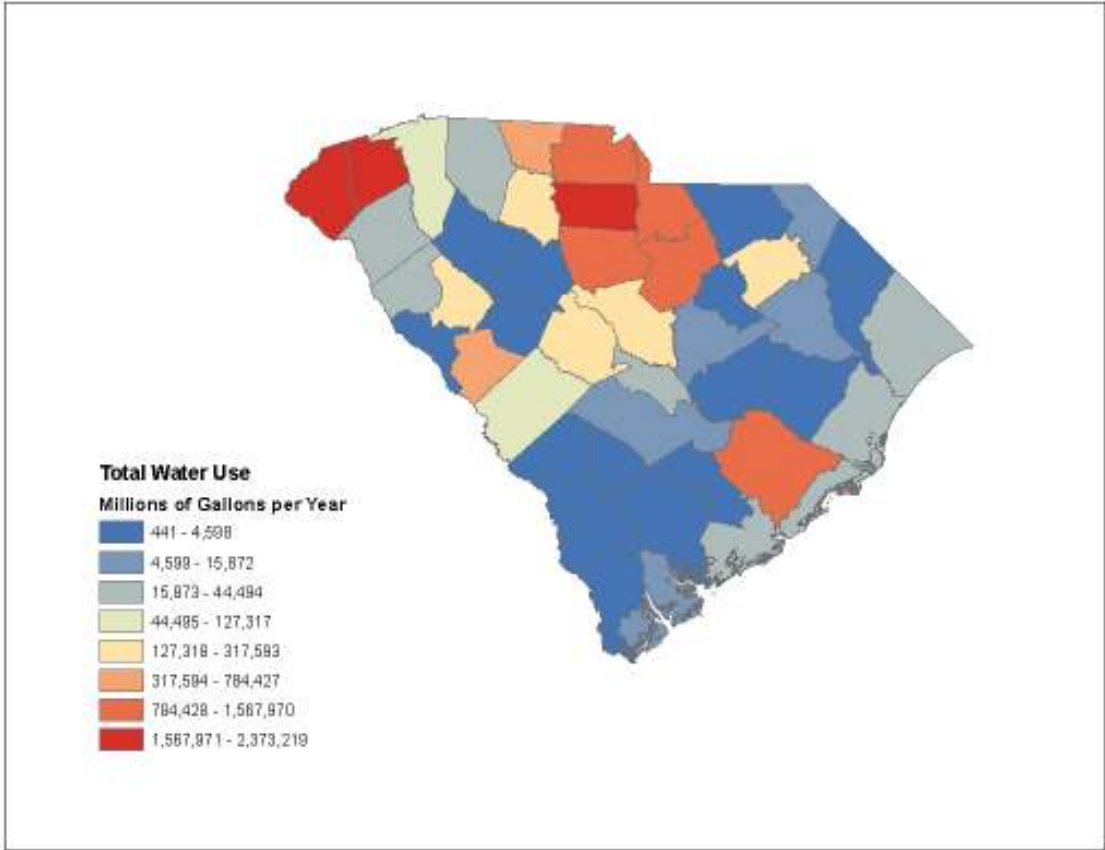
<i>Water Use Category</i>	<i>Facilities</i>	<i>Groundwater Sources</i>	<i>Surface Water Sources</i>
<i>Golf Course</i>	265	262	291
<i>Water Supply</i>	224	768	79
<i>Irrigation</i>	223	565	260
<i>Industrial</i>	89	243	50
<i>Hydroelectric</i>	29	1	30
<i>Thermoelectric</i>	19	15	22
<i>Mining</i>	11	10	4
<i>Aquaculture</i>	6	11	3
<i>Other</i>	5	23	1
<i>Total</i>	871	1898	740

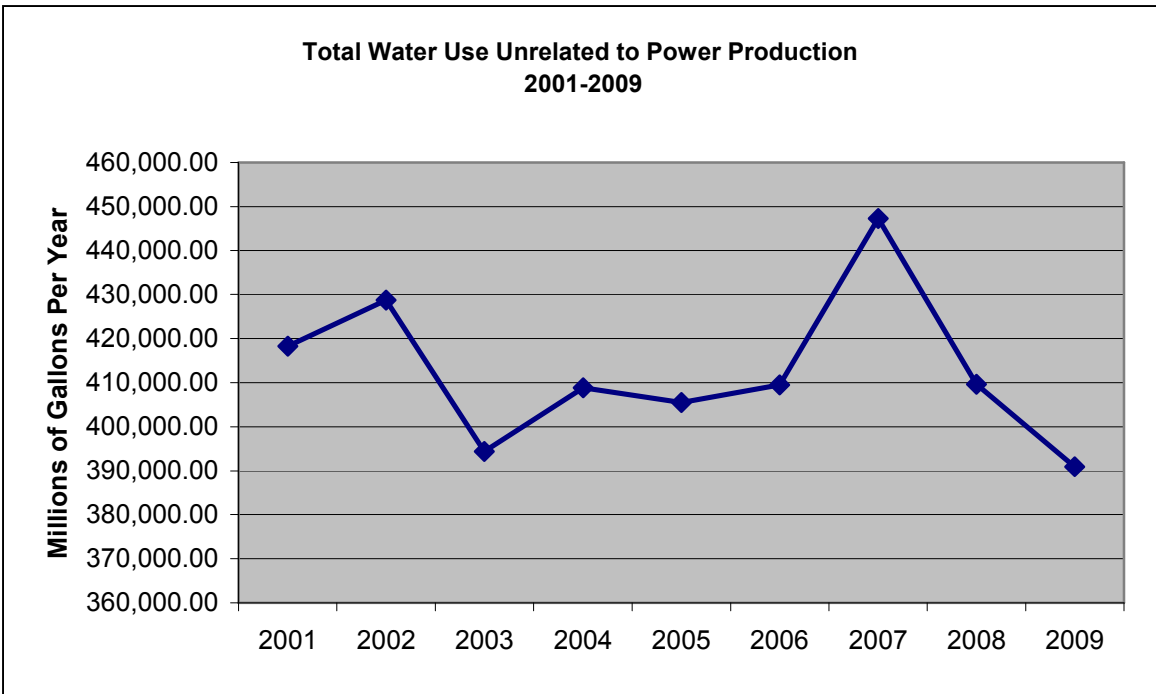
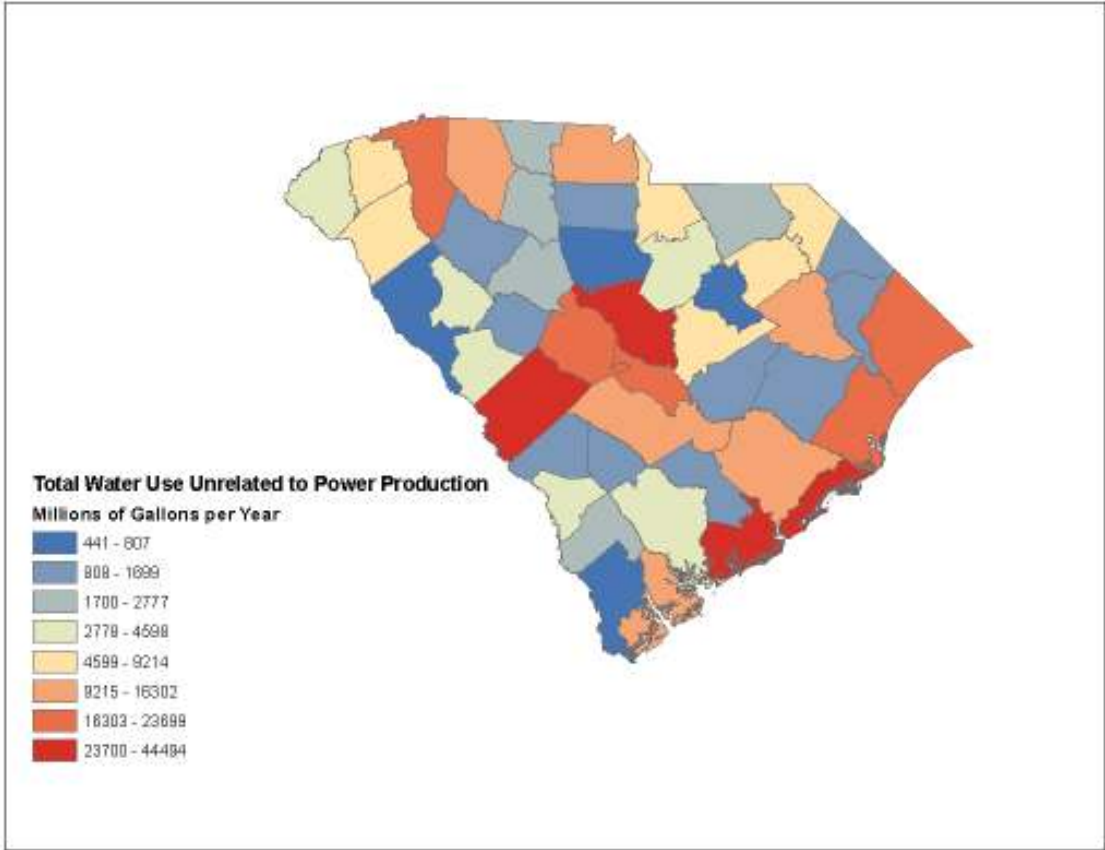
Total Reported Water Use

Total water use reported for 2009 was more than 16.01 trillion gallons from 871 reporting facilities. Surface water use accounted for approximately 15.93 trillion gallons, approximately 99.5% of total water use. Groundwater withdrawal accounted for approximately 72.99 billion gallons or approximately 0.5%.

<i>Water Use Category</i>	<i>Surface Water</i>	<i>Groundwater</i>	<i>Total</i>	<i>Percentage</i>
<i>Aquaculture</i>	80.243	229.9	310.143	0.002%
<i>Golf Course</i>	9,257.479	3,144.013	12,401.492	0.077%
<i>Industrial</i>	120,271.624	8,048.285	128,319.909	0.801%
<i>Irrigation</i>	11,673.031	18,113.856	29,786.887	0.186%
<i>Mining</i>	247.3	2,840.98	3,088.28	0.019%
<i>Other</i>	2.41	59.725	62.135	0.000%
<i>Hydroelectric Power</i>	12,446,338.701	0.411	12,446,339.112	77.740%
<i>Nuclear Power</i>	2,843,982.488	368.153	2,844,350.641	17.766%
<i>Thermoelectric Power</i>	327,168.231	1,463.42	328,631.651	2.053%
<i>Water Supply</i>	178,209.93	38,721.667	216,931.597	1.355%
<i>Total</i>	15,937,231.437	72,990.41	16,010,221.847	100.000%

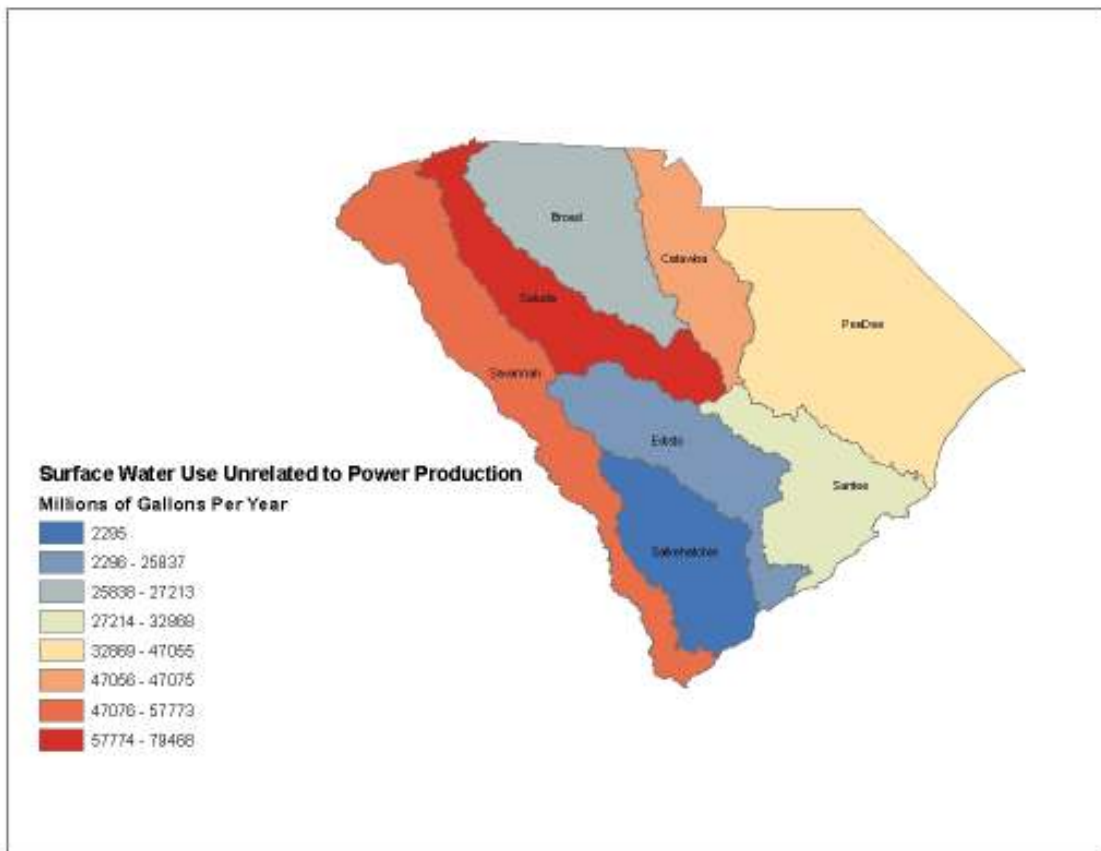
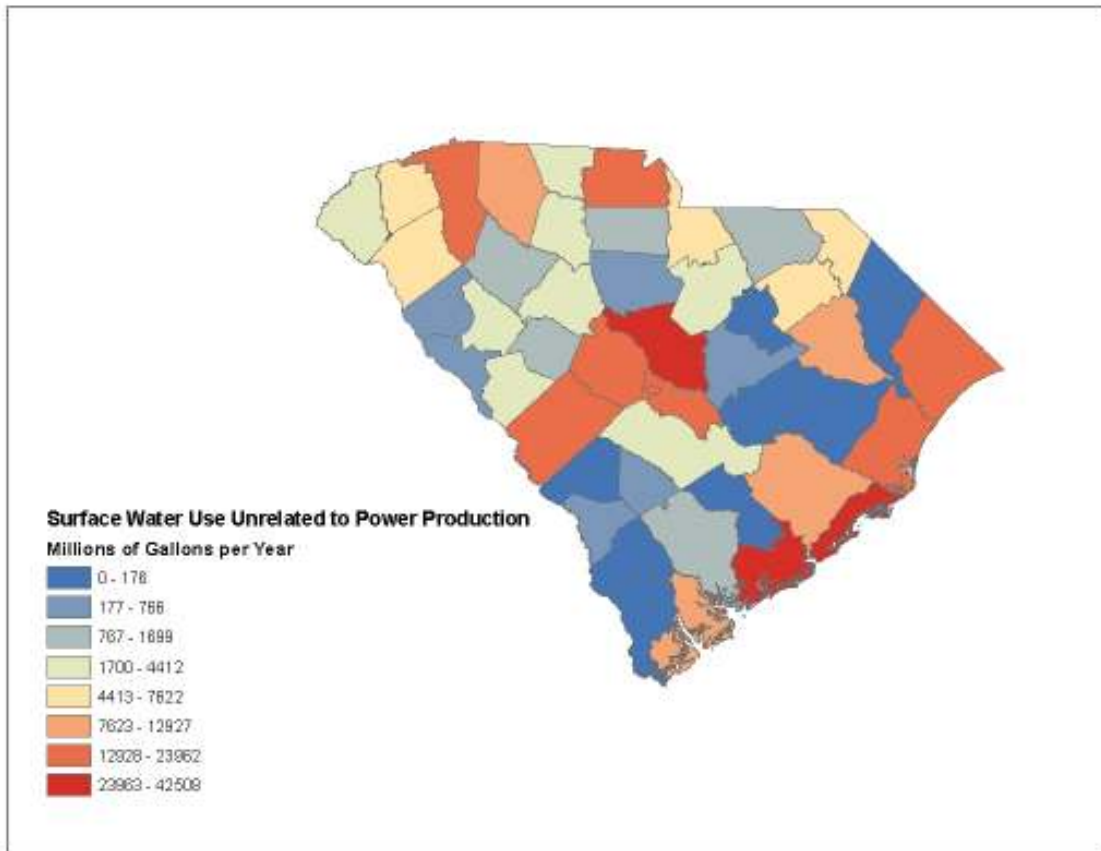


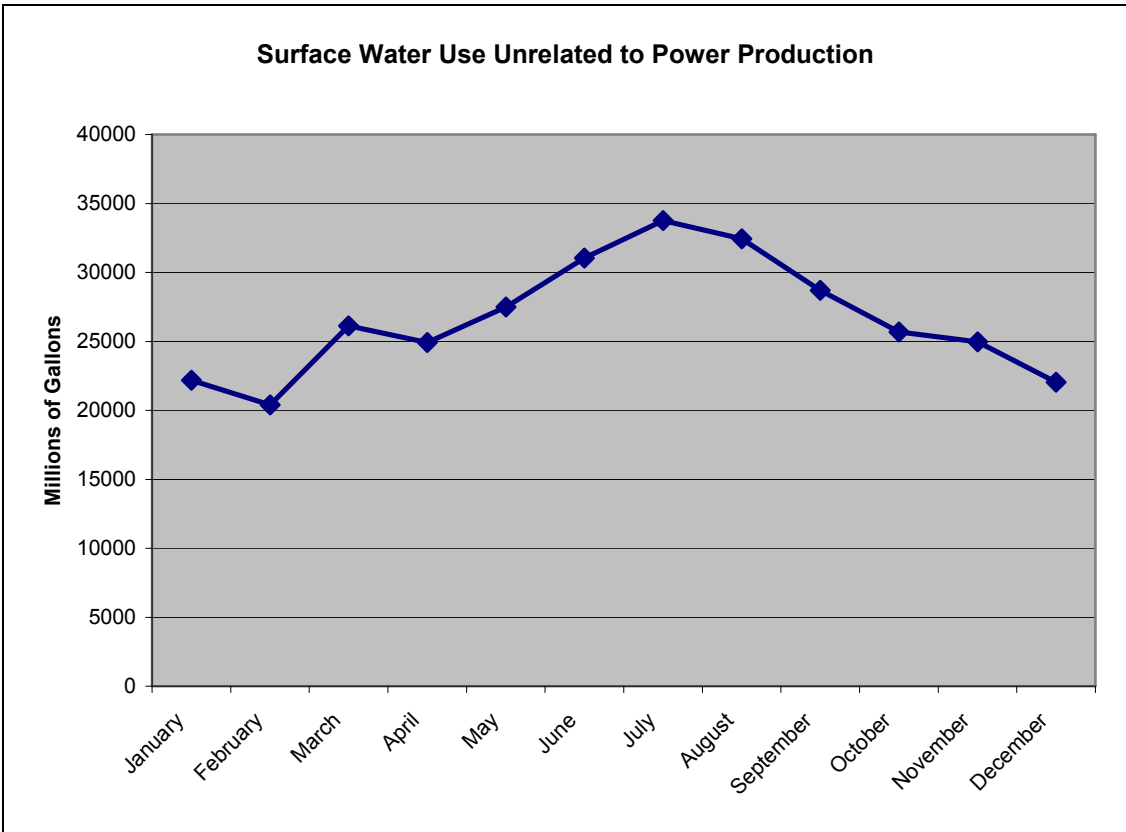
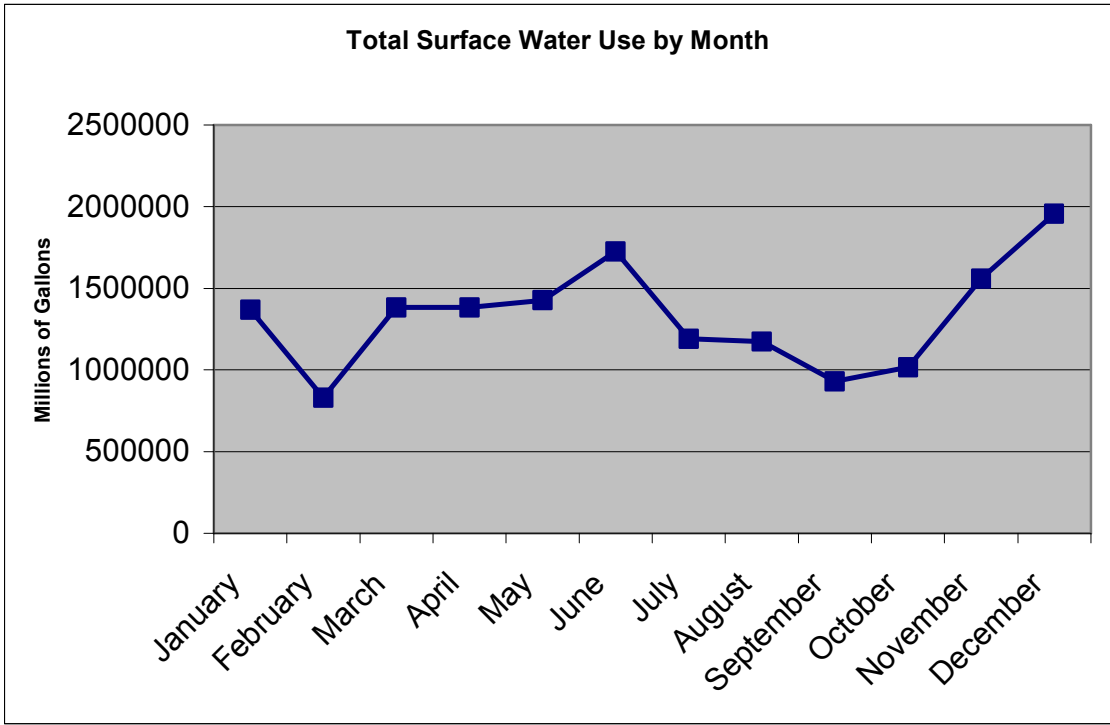




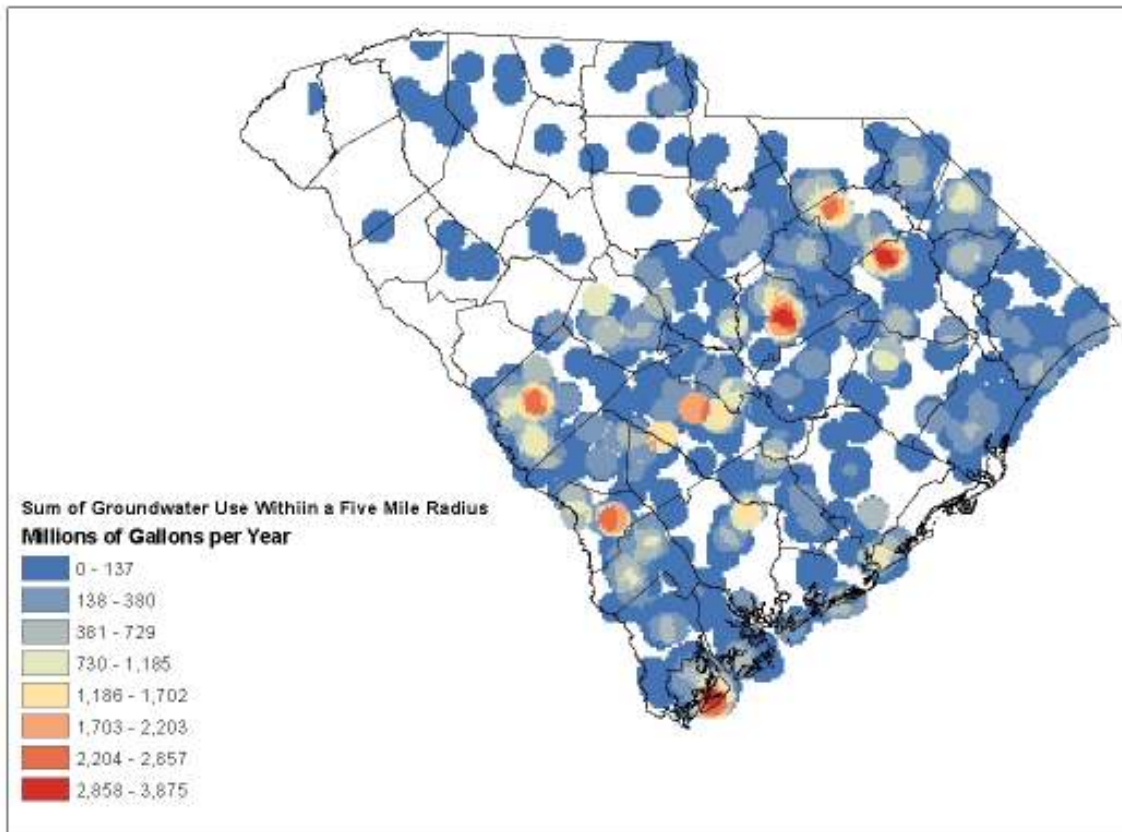
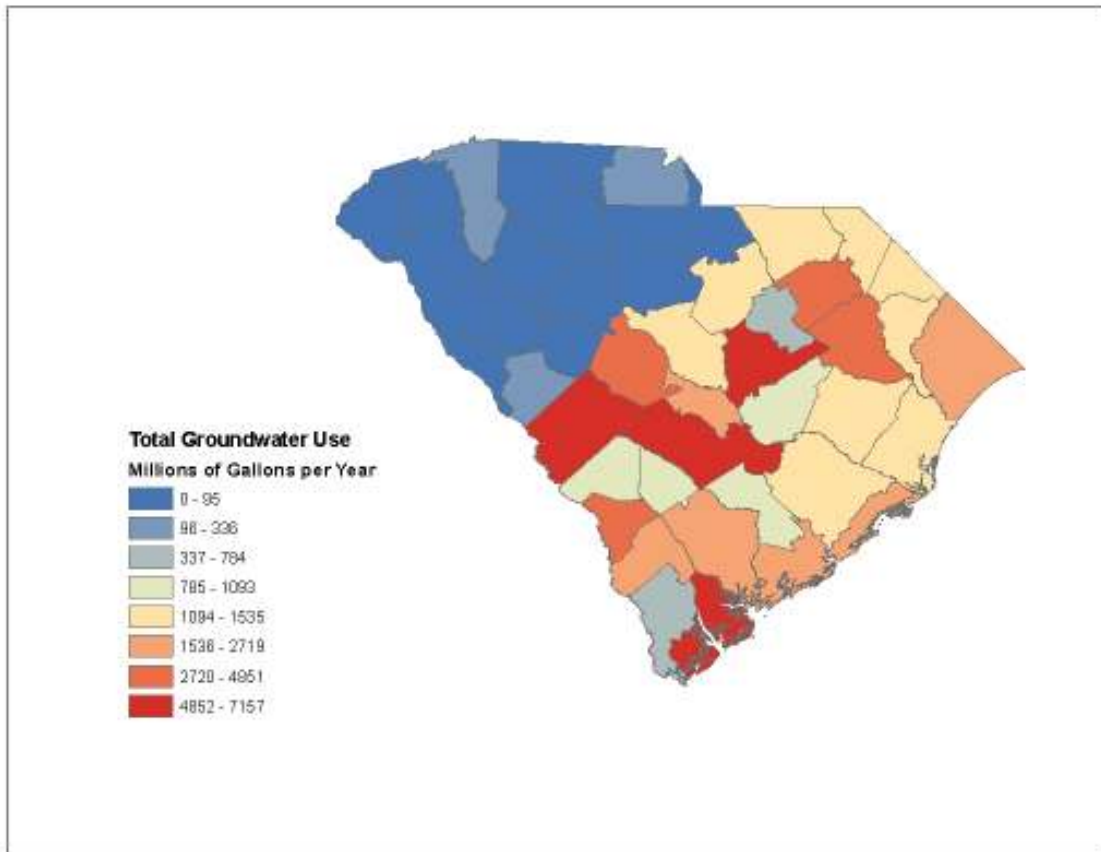
Water Use by Source Type

Surface Water Use

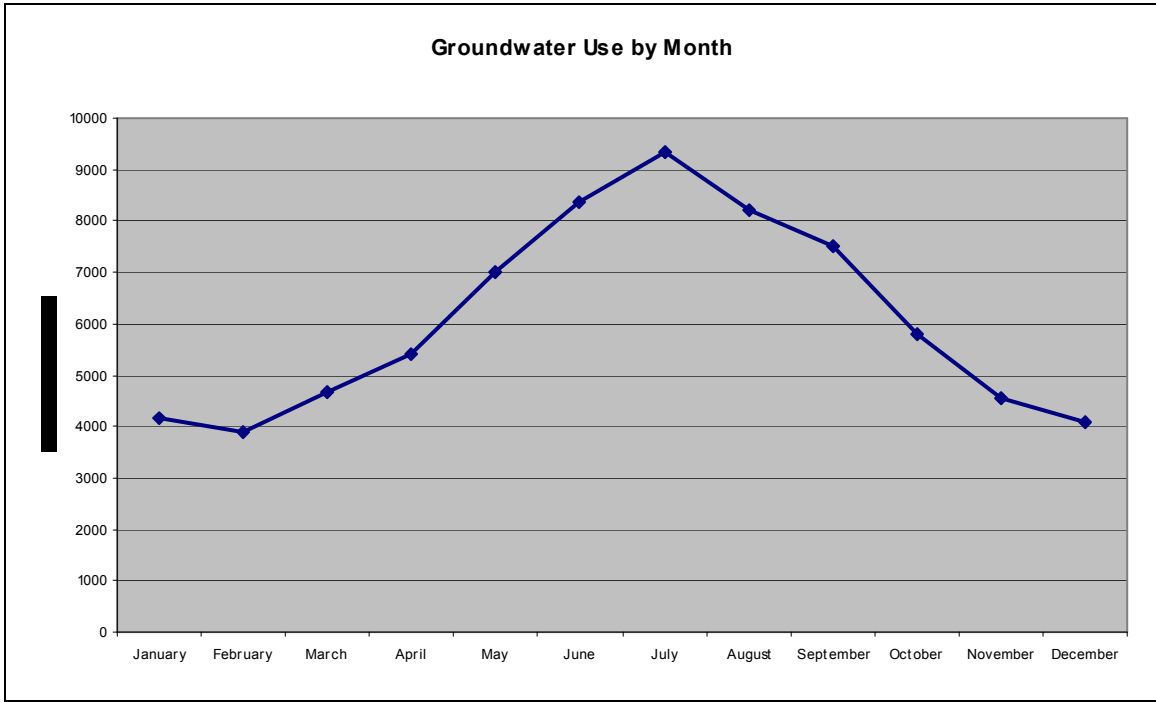




Groundwater Use



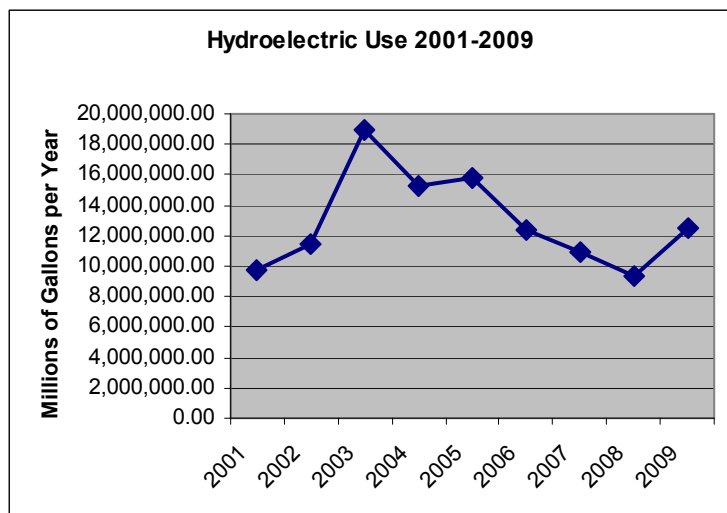
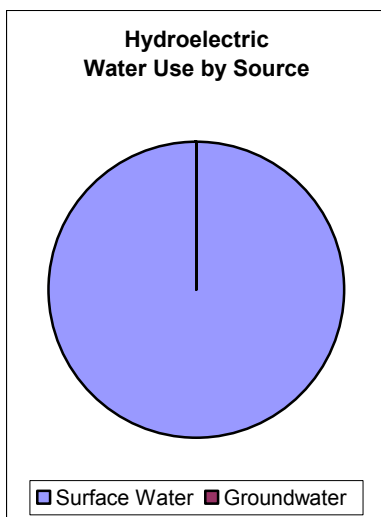
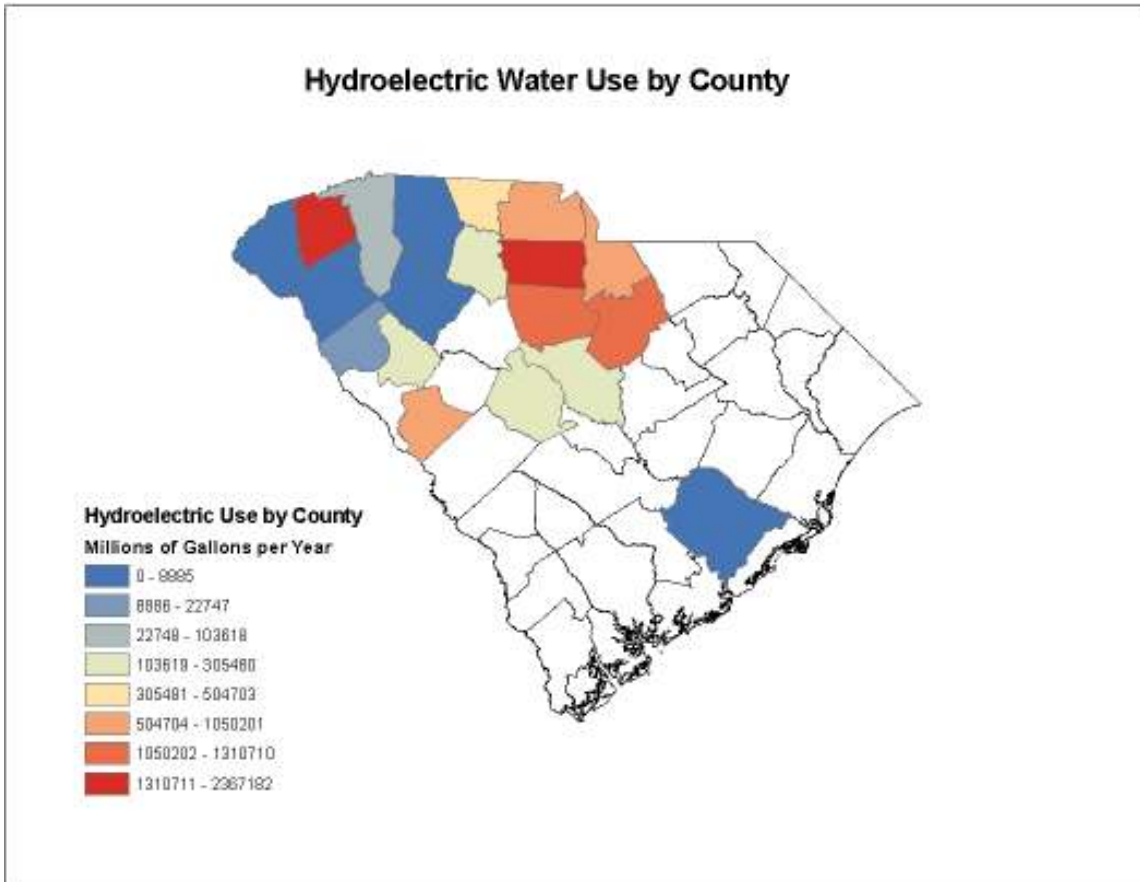
Groundwater Use by Month



Water Use by Category

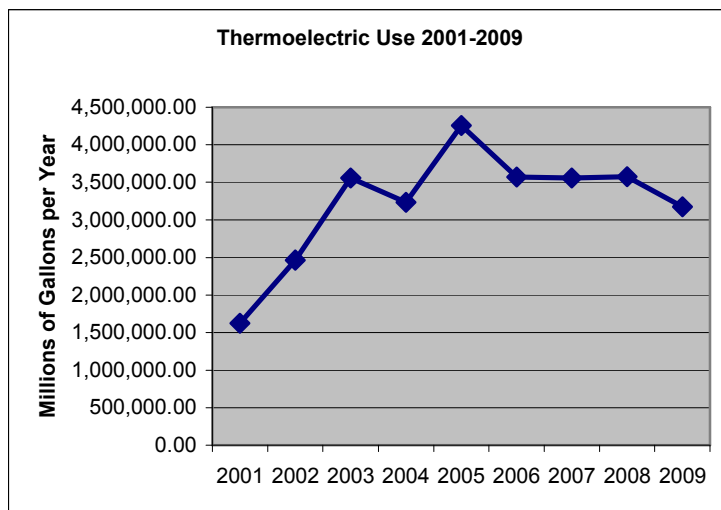
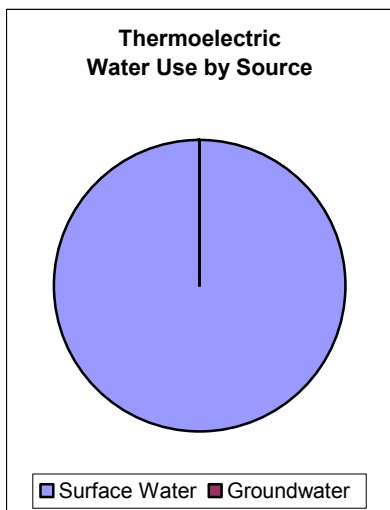
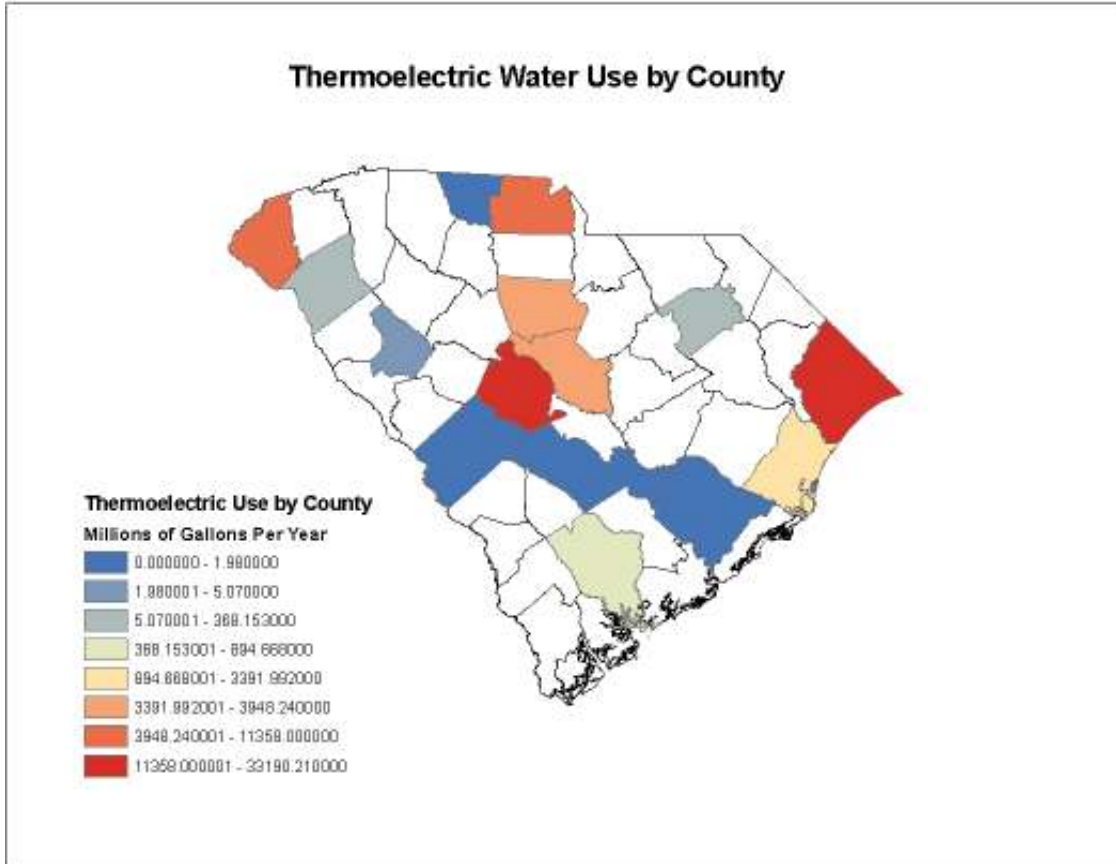
Hydroelectric Water Use

Hydroelectric facilities employ energy from flowing water to generate electricity. Hydroelectric facilities utilize *impoundments* (reservoirs), *diversion* (run-of river), or *pumped storage* (reversible turbines). Water use is typically non-consumptive flow-through, with temporary diversion from down stream users. Reported water use for 30 hydroelectric sources accounted for approximately 12.446 trillion gallons.



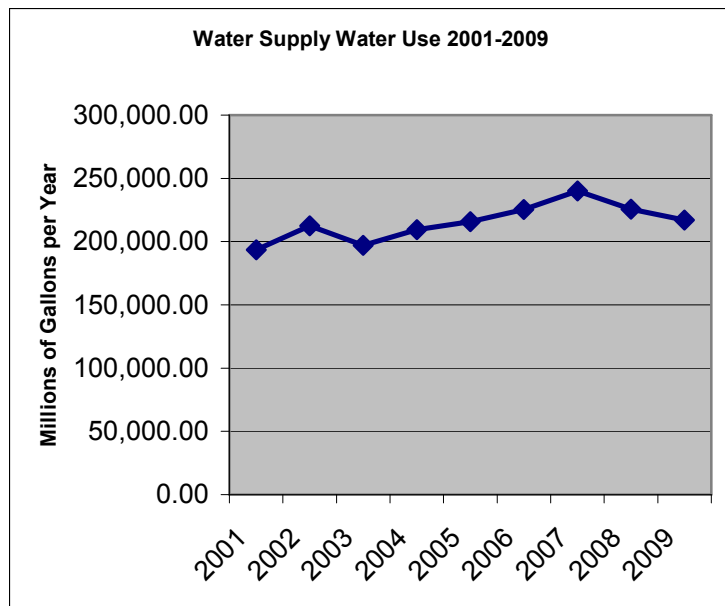
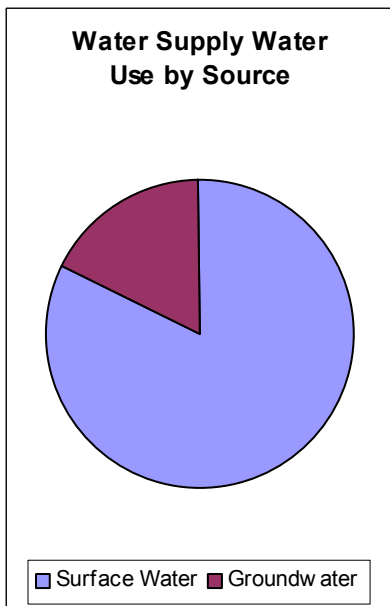
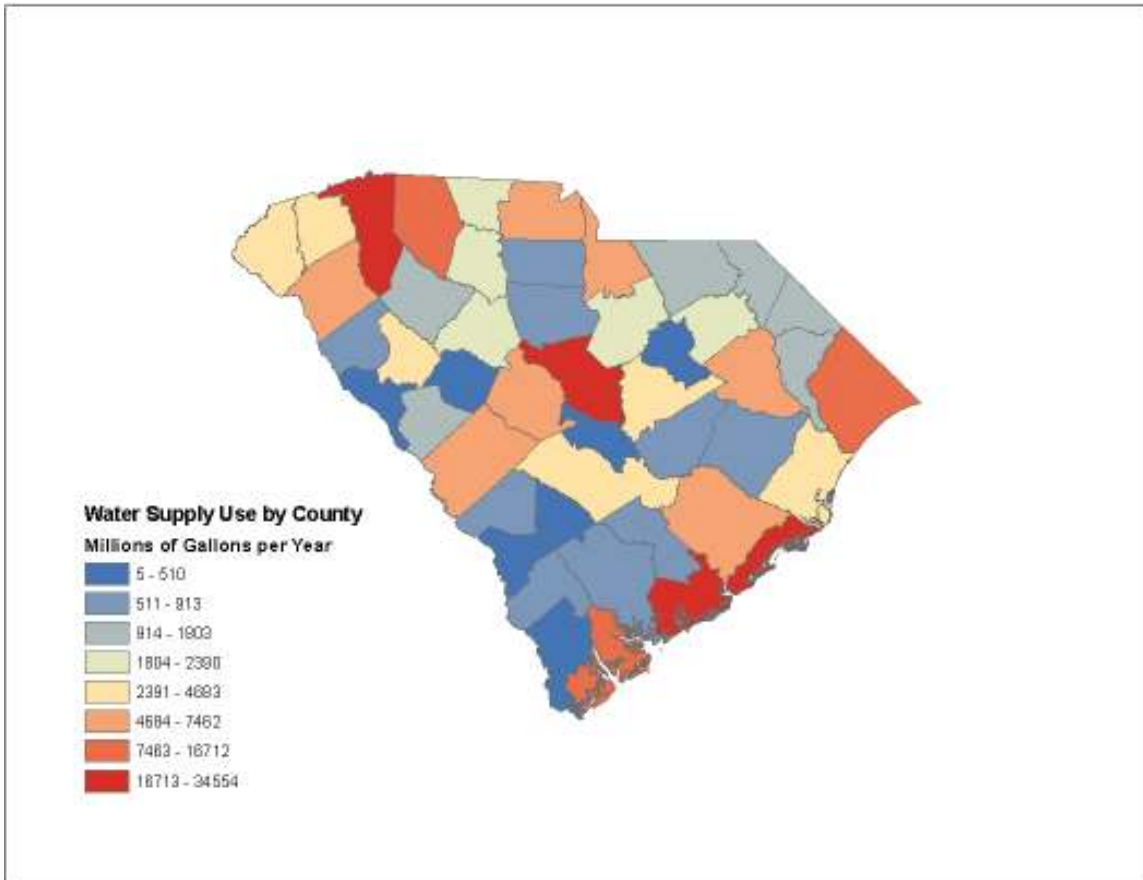
Thermoelectric Water Use

Thermoelectric facilities generate electricity by superheating water to steam then passing the steam under pressure to turbines. Boilers are fired by coal, nuclear power or residual fuel oil. Large volumes of cooling water are required to condense the steam to the liquid state. Reported water use for 22 thermoelectric water sources accounted for more than 3.172 trillion gallons.



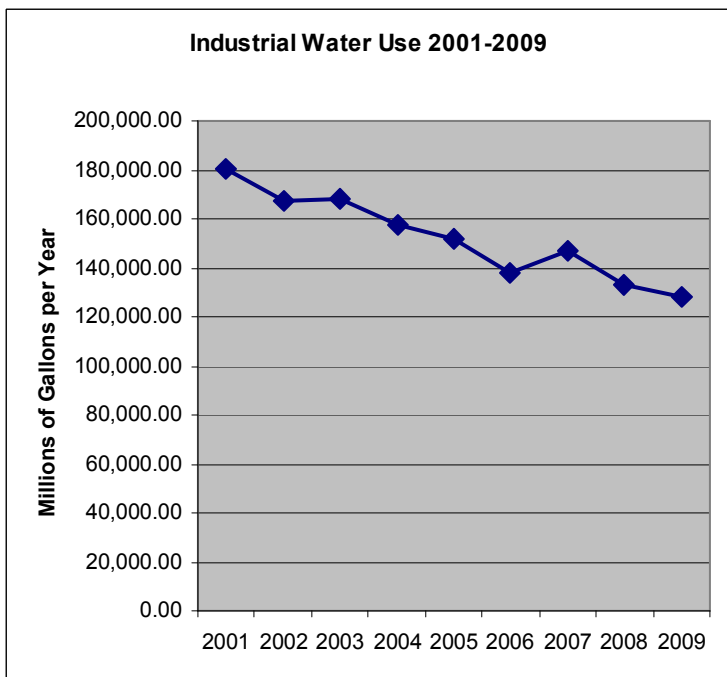
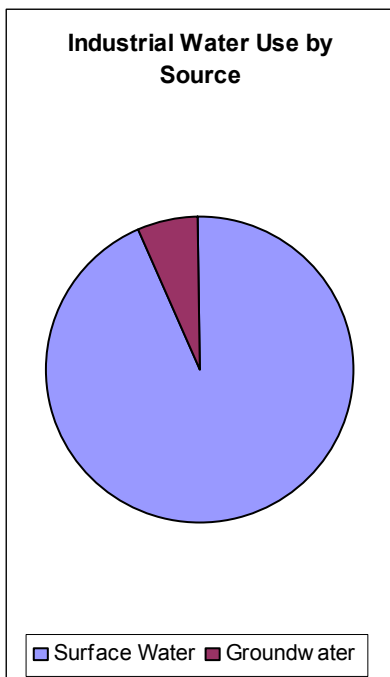
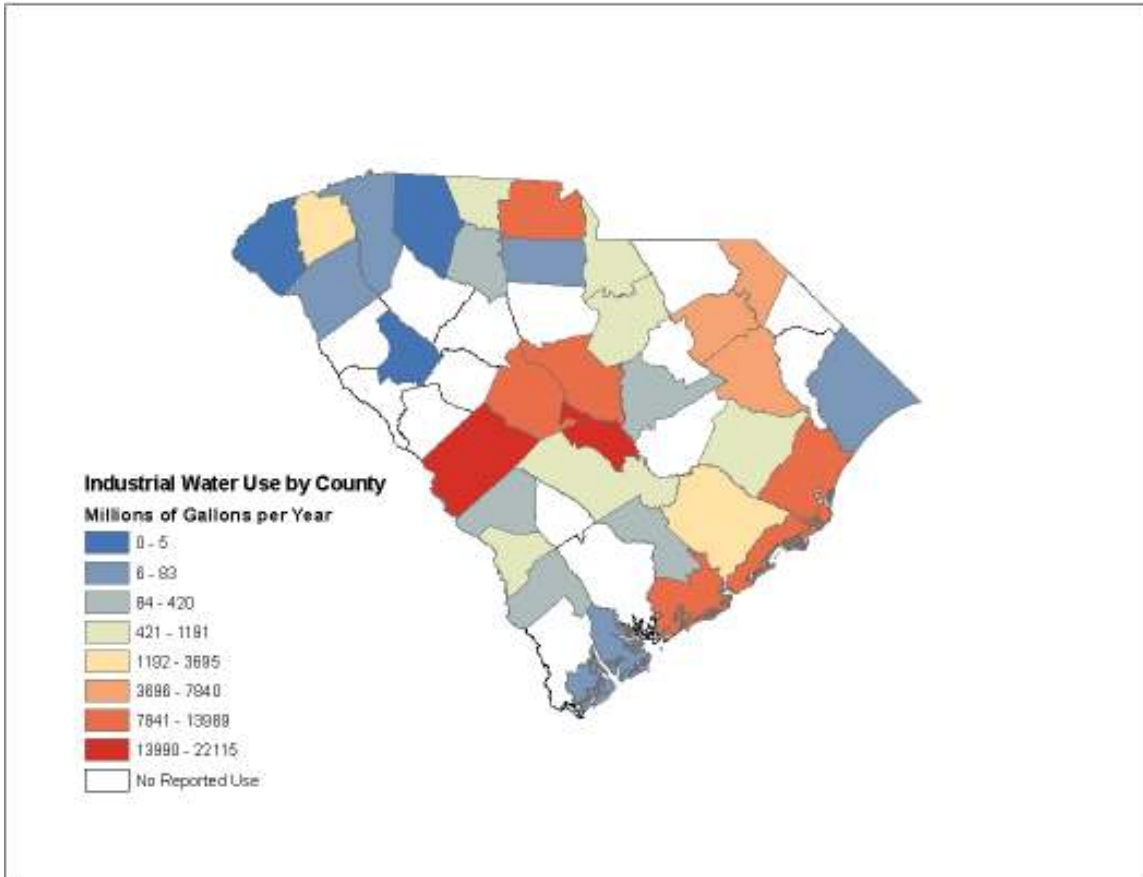
Water Supply

Water withdrawal for public water supply from 224 reporting suppliers totaled 216.93 billion gallons, with 79 surface water sources accounting for 178.21 billion gallons and 768 groundwater sources accounting for 38.72 billion gallons.



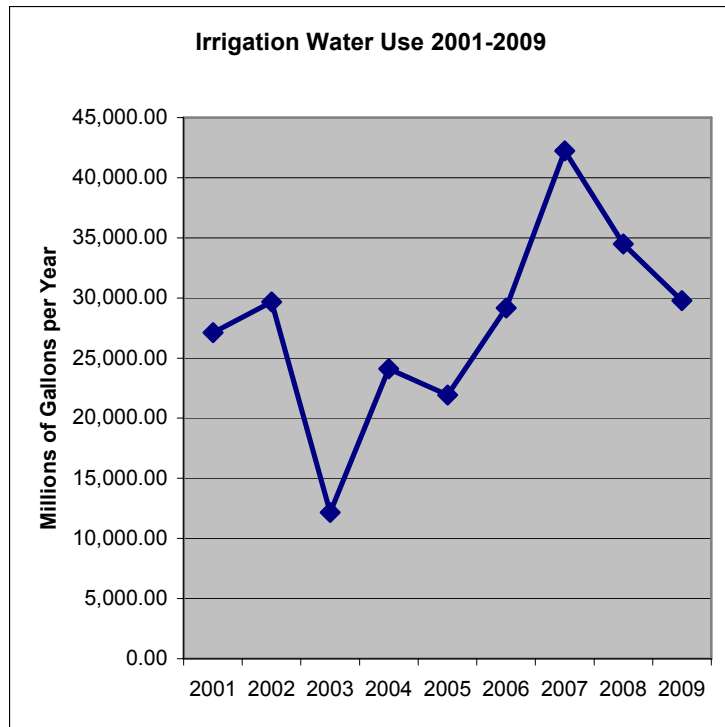
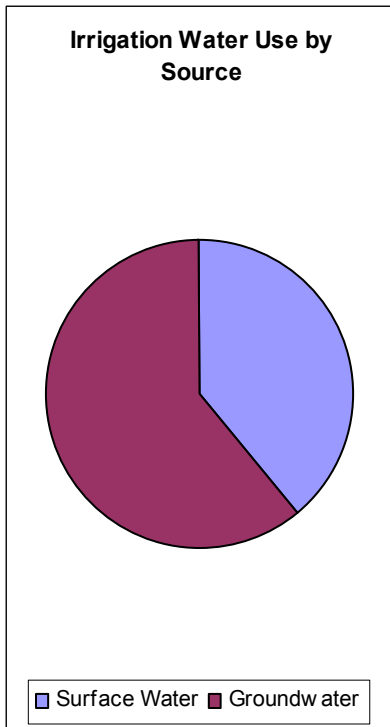
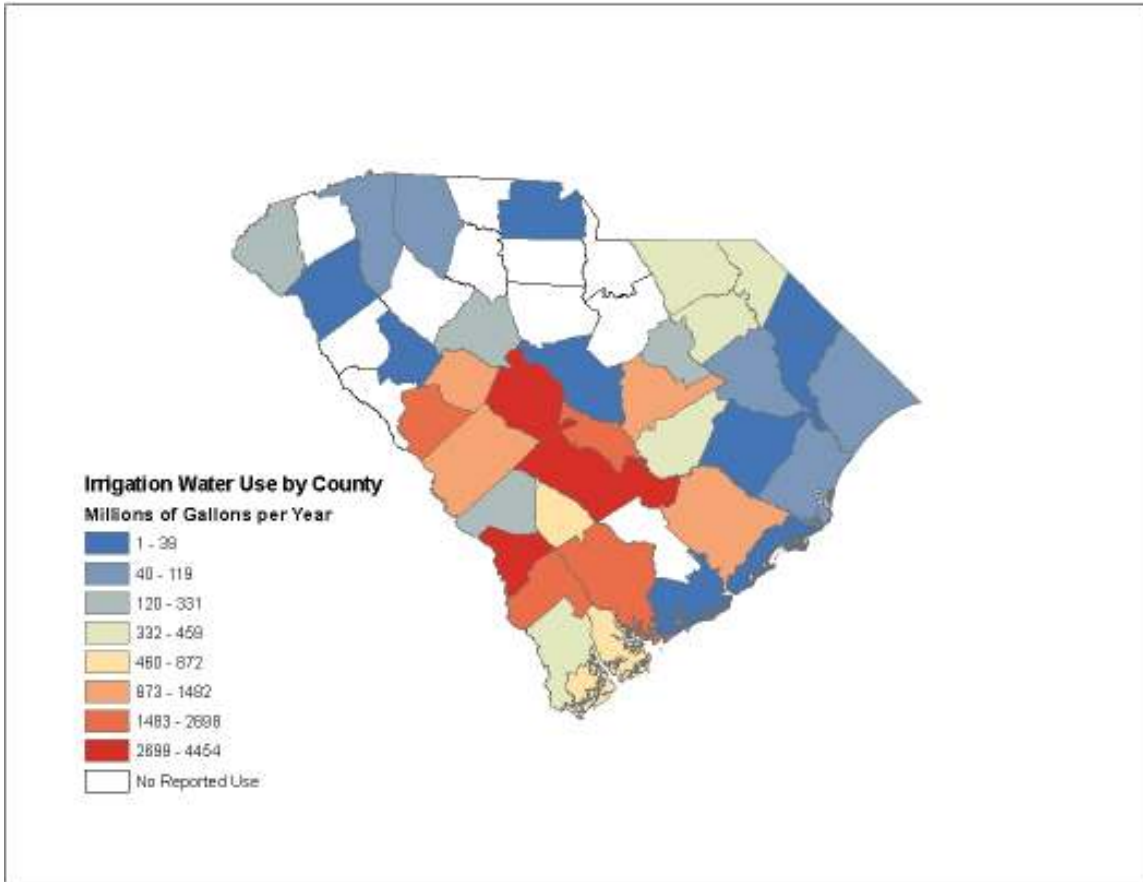
Industrial Use

Water withdrawal for industrial use from 89 reporting industries totaled 128.32 billion gallons, with 50 surface water sources accounting for 120.27 billion gallons and 243 groundwater sources accounting for 8.05 billion gallons. Water use at industrial facilities is predominantly cooling water (contact and non-contact) with return to surface water systems through permitted NPDES discharges



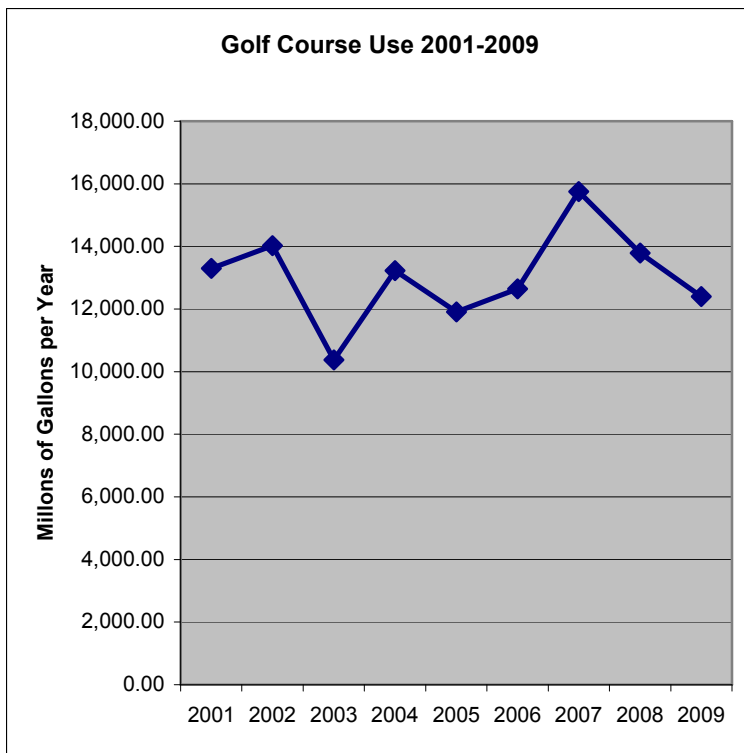
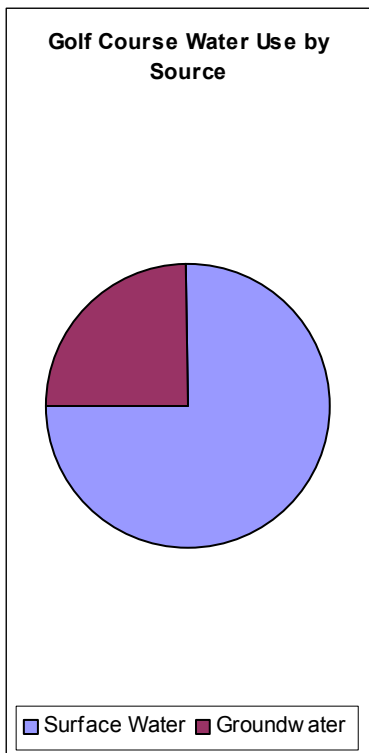
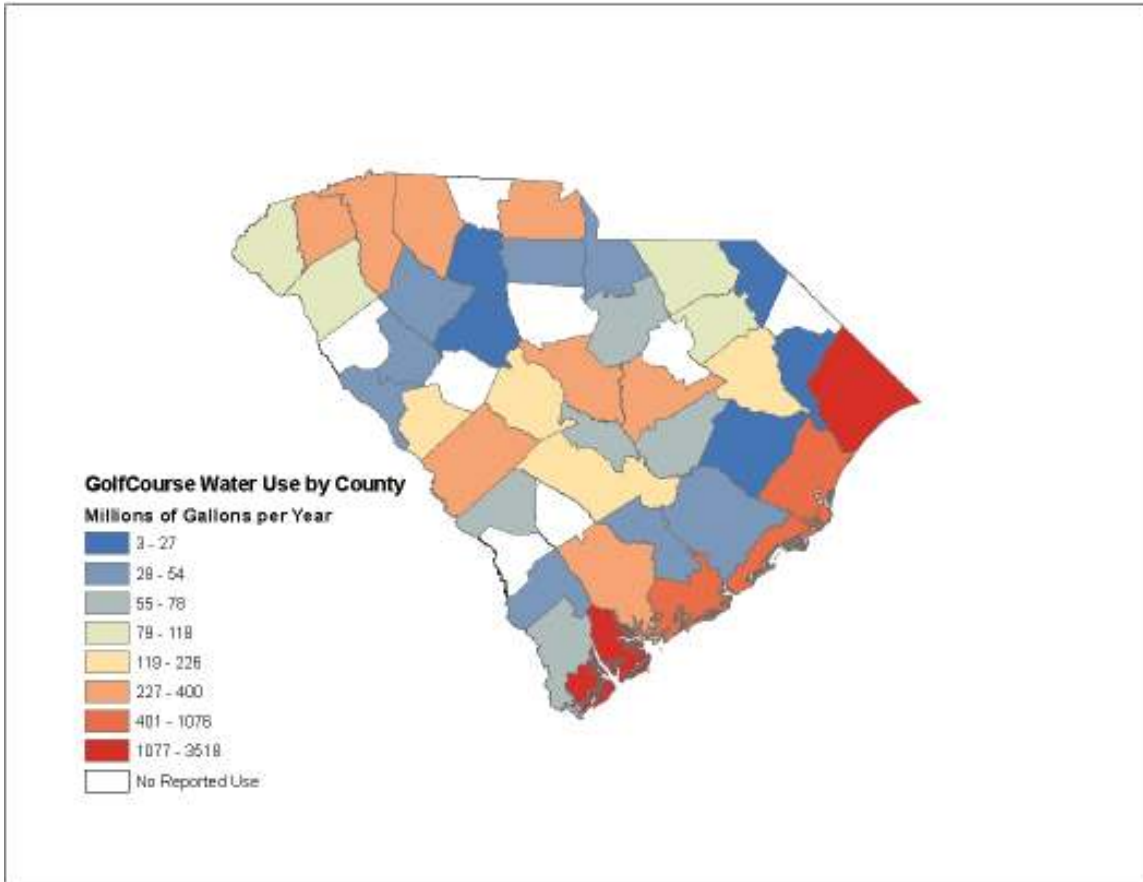
Irrigation Use

Water withdrawal for irrigation use from 223 reporting entities totaled 29.79 billion gallons, with 260 surface water sources accounting for 11.67 billion gallons and 565 groundwater sources accounting for 18.11 billion gallons



Golf Course Use

Water withdrawal from 265 reporting courses for golf course irrigation totaled 12.40 billion gallons, with 291 surface water sources accounting for 9.26 billion gallons and 262 groundwater sources accounting for 3.14 billion gallons.

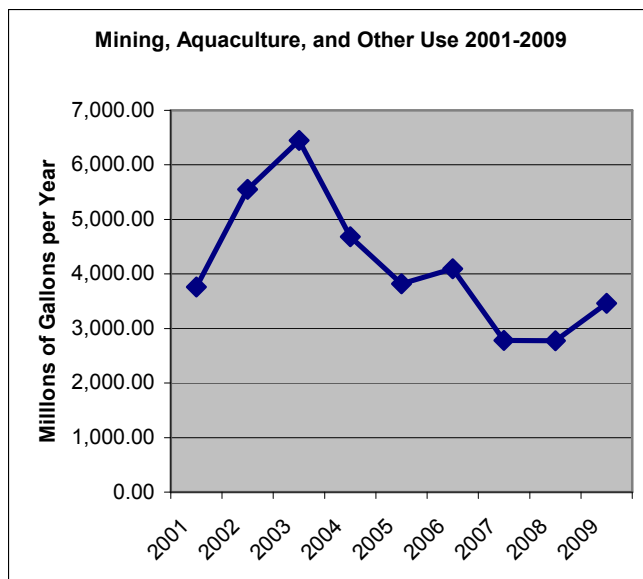
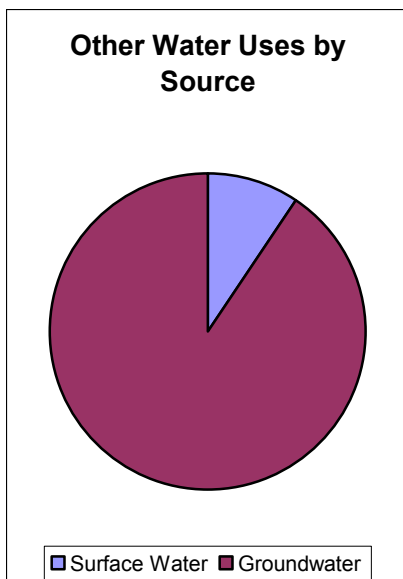
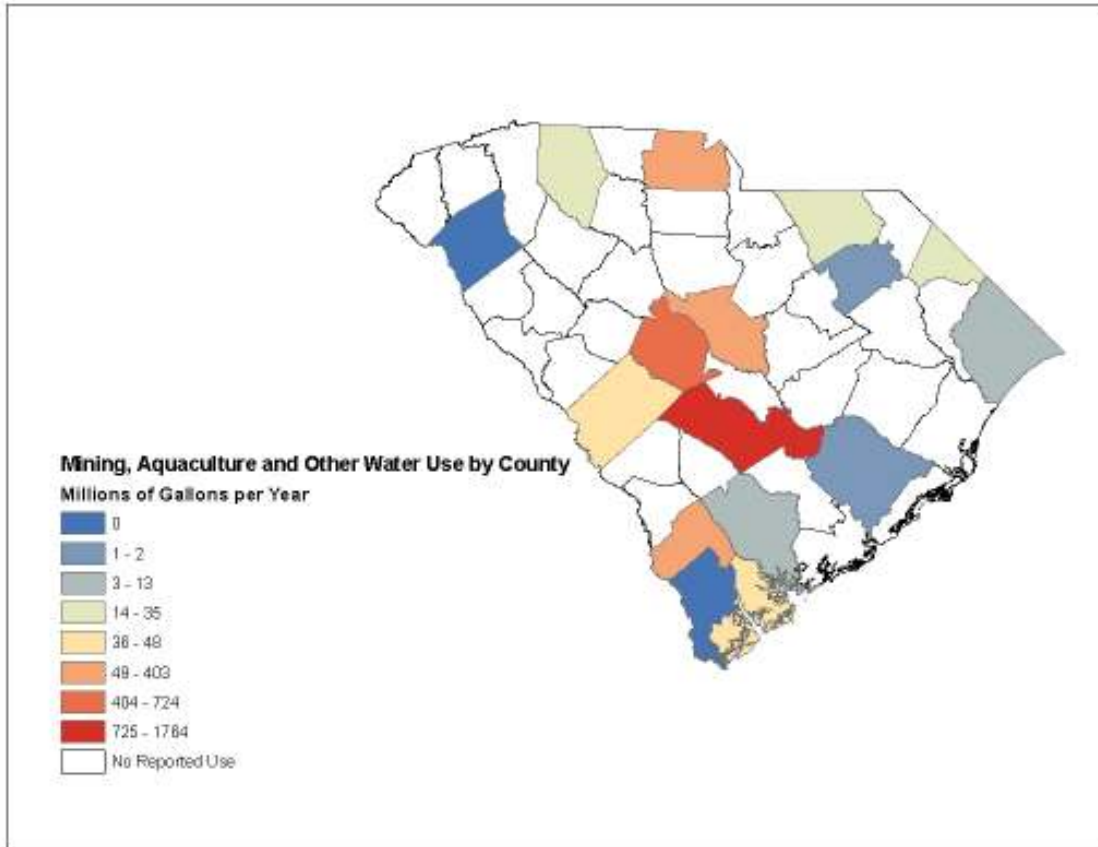


Mining, Aquaculture and Other Uses

Water withdrawal associated with mining activities at 11 reporting facilities totaled 3.08 billion gallons, with 4 surface water sources accounting for 247.30 million gallons and 10 groundwater sources accounting for 3.08 billion gallons.

Water withdrawal from 6 reporting aquaculture-farming facilities totaled 310.14 Million gallons, with 3 surface water sources accounting for 80.24 million gallons and 11 groundwater sources accounting for 229.90 million gallons.

Water withdrawal for other, non-specific use from 5 reporting facilities totaled 59.73 million gallons, with 23 groundwater source accounting for 59.73 million gallons and 1 surface water source accounting for 2.41 million gallons.



Appendix A: Surface and Groundwater Use Summary Table

Use Reported in Millions of Gallons

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
ABBEVILLE	Hydroelectric	Surface Water	22747.159	1992.739	590.733	3315.981	3276.599	1602.856	1394.13	244.17	228.417	614.362	1878.531	2536.214	5072.427
ABBEVILLE	Water Supply	Groundwater	2.968	0.388	0.155	0.175	0.232	0.26	0.324	0.31	0.233	0.227	0.231	0.243	0.19
ABBEVILLE	Water Supply	Surface Water	766.149	64.263	53.906	60.904	64.535	62.142	68.473	77.268	74.073	66.802	62.855	57.18	53.748
AIKEN	Golf Course	Groundwater	17.943	0	0	0.21	0.8	0.99	1.7	4.234	5.339	4.29	0.38	0	0
AIKEN	Golf Course	Surface Water	307.711	0.333	5.294	11.606	20.453	27.792	52.248	75.396	56.027	32.499	23.184	2.864	0.015
AIKEN	Industrial	Groundwater	1002.531	77.753	78.137	91.191	93.763	91.845	78.868	91.915	89.459	88.619	65.297	67.264	88.42
AIKEN	Industrial	Surface Water	20995.365	1855.395	1439.12	1588.395	1506.37	1718.745	2038.195	2004.77	1961.52	1908.745	1627.595	1821.795	1524.72
AIKEN	Irrigation	Groundwater	360.852	0.8	2.2	3.1	38.1	50	60.252	59.5	54.8	48.7	31.2	10.3	1.9
AIKEN	Irrigation	Surface Water	720.3	3.2	4	10.2	20	78.7	102.9	144	121.5	100	88	40	7.8
AIKEN	Mining	Groundwater	39.384	0	0	0	0	0	0	0	0	5.184	34.2	0	0
AIKEN	Thermoelectric	Increased Evaporation	0.476	0.025	0.035	0.057	0.064	0.038	0.043	0.061	0.036	0.038	0.034	0.022	0.023
AIKEN	Thermoelectric	Surface Water	70141	3270	1691	3242	3975	4775	8070	6467	8636	7490	7932	7754	6839
AIKEN	Water Supply	Groundwater	5289.148	420.251	339.691	372.386	389.475	432.686	515.532	561.07	540.323	509.148	466.499	378.039	363.048
AIKEN	Water Supply	Surface Water	1938.169	112.171	102.784	129.623	160.039	180.969	247.794	265.133	223.132	188.173	129.551	101.575	97.225
ALLENDALE	Industrial	Groundwater	665.89	61.45	43.06	48.13	42.58	44.5	52.17	65.52	63.48	64.98	60.27	62.24	57.51
ALLENDALE	Irrigation	Groundwater	2931.919	12.894	48.253	103.793	269.71	424.141	371.098	458.747	516.419	493.188	195.424	37.579	0.673
ALLENDALE	Irrigation	Surface Water	599.78	1	1.9	4.7	6.4	43.7	140.785	177.829	148.456	64.3	10.5	0.11	0.1
ALLENDALE	Water Supply	Groundwater	400.243	35.564	31.663	36.186	36.258	35.609	36.673	37.77	32.915	29.631	30.803	28.421	28.75
ANDERSON	Golf Course	Surface Water	105.788	0.094	0.719	3.051	11.931	12.119	15.919	23.164	21.494	12.773	3.342	1.038	0.144
ANDERSON	Hydroelectric	Surface Water	188.7	14.6	6.8	20.3	23.4	17.8	14.7	5.3	3.3	7.2	17.5	24.2	33.6
ANDERSON	Industrial	Surface Water	45.2	4.6	4.7	3	2.8	2.5	2.1	2.5	3.1	6	5.3	4.3	4.3
ANDERSON	Irrigation	Surface Water	9.1	0	0	0	0.4	1.1	2.2	2.7	2.1	0.6	0	0	0
ANDERSON	Mining	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
ANDERSON	Thermoelectric	Increased Evaporation	229	23	11	12	2	3	37	34	88	10	0	0	9
ANDERSON	Thermoelectric	Surface Water	13571.638	1631.976	610.023	1294.041	258.215	689.216	3019.292	1781.849	2801.859	545.086	42.694	18.098	879.289
ANDERSON	Water Supply	Surface Water	7461.787	543.834	505.334	549.885	533.383	589.523	667.277	762.654	725.175	633.342	555.287	884.831	511.262
BAMBERG	Irrigation	Groundwater	431.954	2	4	5.868	17.412	62.524	86.889	98.262	70.447	59.164	16.588	6.8	2
BAMBERG	Irrigation	Surface Water	439.654	2	2.5	15.96	6.055	53.721	84.846	102.498	71.827	52.891	36.053	9.303	2
BAMBERG	Water Supply	Groundwater	509.603	40.635	40.541	40.774	43.488	44.246	41.687	45.863	47.6	44.625	37.185	41.868	41.091
BARNWELL	Golf Course	Surface Water	71.7	0.6	0.45	6	8.55	9	10.2	11	12.2	8.14	4.65	0.48	0.43
BARNWELL	Industrial	Groundwater	158.02	13.392	12.096	13.392	12.96	13.392	12.96	13.504	13.512	13.068	13.392	12.96	13.392
BARNWELL	Irrigation	Groundwater	176.31	0	0	0	10.9	14.6	17.43	97.95	28.03	7.4	0	0	0
BARNWELL	Irrigation	Surface Water	104.1	0	0	1.2	9.1	20.4	22.2	24.8	18.4	6.9	1.1	0	0
BARNWELL	Water Supply	Groundwater	758.873	56.502	50.93	50.742	57.375	90.417	70.181	76.949	87.186	68.594	57.51	45.566	46.921
BEAUFORT	Aquaculture	Groundwater	4.233	0.003	0.002	0.302	0.302	0.302	0.604	0.604	0.604	0.603	0.303	0.302	0.302
BEAUFORT	Aquaculture	Surface Water	6.6	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
BEAUFORT	Golf Course	Groundwater	1015.788	36.329	31.466	68.803	86.991	100.744	121.266	164.682	126.099	122.967	83.836	60.809	11.796
BEAUFORT	Golf Course	Surface Water	1519.43	55.284	65.224	100.835	139.353	144.698	179.694	222.543	172.997	173.43	134.416	85.396	45.56
BEAUFORT	Industrial	Groundwater	39.858	2.949	2.828	3.051	3.319	3.555	3.565	3.753	3.745	3.261	3.529	3.216	3.087
BEAUFORT	Irrigation	Groundwater	576.402	0.021	0.411	36.208	69.504	147.723	158.873	49.143	40.561	52.01	18.636	3.291	0.021
BEAUFORT	Irrigation	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
BEAUFORT	Other	Groundwater	37.24	3.41	3.39	3.27	3.63	2.84	2.76	3.03	2.65	2.93	2.8	3.16	3.37
BEAUFORT	Water Supply	Groundwater	4716.224	245.253	242.847	343.269	364.21	413.878	520.596	587.153	523.943	484.048	403.957	306.121	280.949
BEAUFORT	Water Supply	Surface Water	7955.752	657.508	518.961	575.52	535.542	643.982	834.182	890.079	813.331	788.835	709.046	609.245	379.521
BERKELEY	Golf Course	Groundwater	18.9	0	0	0.5	2	2	5	0	7	1	0.4	1	0
BERKELEY	Golf Course	Surface Water	16.8	0	0	0	2	2	4	1	6	1	0.4	0.4	0
BERKELEY	Hydroelectric	Groundwater	0.411	0.074	0.027	0.034	0.027	0.026	0.027	0.03	0.034	0.034	0.031	0.03	0.037
BERKELEY	Hydroelectric	Surface Water	1207924.107	103818.427	92559.075	102478.435	97599.998	102696.499	99170.438	97928.304	101394.26	98239.807	100793.228	108569.172	102676.464

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
BERKELEY	Industrial	Groundwater	1085.573	77.584	84.041	93.73	65.528	87.462	88.173	90.935	97.05	96.559	94.07	122.63	87.811
BERKELEY	Industrial	Surface Water	2609.868	199.608	200.687	194.232	196.315	208.286	189.964	186.937	199.728	288.13	279.754	229.902	236.325
BERKELEY	Irrigation	Groundwater	0.24	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
BERKELEY	Irrigation	Surface Water	1251.84	46.5	59.08	93.3	135.4	118.93	177.54	181.93	180.76	121.09	29.09	59.96	48.26
BERKELEY	Mining	Groundwater	1.242	0.066	0.106	0.119	0.106	0.106	0.132	0.106	0.145	0.092	0.092	0.119	0.053
BERKELEY	Thermoelectric	Increased Evaporation	1.98	0.189	0.208	0.118	0.257	0.27	0.202	0.116	0.151	0.044	0.083	0.201	0.141
BERKELEY	Thermoelectric	Groundwater	23.011	2.033	1.95	1.972	1.774	1.75	1.653	1.888	1.307	1.946	2.087	2.36	2.291
BERKELEY	Thermoelectric	Surface Water	180319.757	18448.063	16666.78	11606.982	17411.533	17984.474	17185.023	18769.268	18157.237	6490.46	7695.499	14863.704	15040.734
BERKELEY	Water Supply	Groundwater	72.565	7.279	6.748	7.624	6.696	6.249	6.556	7.172	6.169	4.774	4.602	4.311	4.385
BERKELEY	Water Supply	Surface Water	5856.7	438.6	404.1	464.4	461.2	498.3	506.8	537.2	535	542	514.7	482.4	472
CALHOUN	Golf Course	Groundwater	33	0.7	0.5	0.5	2	3.4	5.2	6.3	7	5.1	1	0.7	0.6
CALHOUN	Golf Course	Surface Water	35.2	0.9	0.7	1.5	2.1	3.1	4.6	7	8.1	3	2	1.1	1.1
CALHOUN	Industrial	Groundwater	159.389	11.499	12.085	13.733	13.819	13.935	13.97	14.14	12.885	11.723	10.76	14.194	16.646
CALHOUN	Industrial	Surface Water	21188.539	1754.418	1745.077	1899.365	1820.557	1913.529	1888.171	2151.841	1956.83	1712.46	1472.129	1496.285	1377.877
CALHOUN	Irrigation	Groundwater	1554.266	34.155	41.845	23.091	76.237	169.782	307.579	387.609	266.013	113.452	57.81	41.458	35.235
CALHOUN	Irrigation	Surface Water	182.426	2.025	2.025	0	5.608	16.951	28.739	56.174	45.7	19.768	5.436	0	0
CALHOUN	Water Supply	Groundwater	255.516	20.557	18.023	20.064	20.752	21.901	23.648	25.53	24.724	22.204	21.11	17.042	19.961
CHARLESTON	Golf Course	Groundwater	543.108	6.574	10.493	16.841	32.839	94.549	73.682	81.6	67.354	73.343	48.501	30.674	6.658
CHARLESTON	Golf Course	Surface Water	360.611	3.077	14.858	28.679	44.578	35.666	42.487	58.257	47.911	32.504	33.419	14.938	4.237
CHARLESTON	Industrial	Groundwater	0	0	0	0	0	0	0	0	0	0	0	0	0
CHARLESTON	Industrial	Surface Water	9088.23	755.603	646.667	716.689	671.924	699.479	783.701	849.877	781.654	803.081	826.01	787.625	765.92
CHARLESTON	Irrigation	Groundwater	0	0	0	0	0	0	0	0	0	0	0	0	0
CHARLESTON	Irrigation	Surface Water	7.394	0.101	0.136	0.25	1.01	1.377	1.52	0.25	0.75	1	0.75	0.25	0
CHARLESTON	Water Supply	Groundwater	1443.046	88.804	81.67	101.319	121.534	164.048	151.892	182.036	156.688	143.465	93.582	85.728	72.28
CHARLESTON	Water Supply	Surface Water	33051.56	2335.415	2117.572	5400.839	2338.033	2544.712	2678.259	2928.946	2794.974	2796.718	2574.634	2311.735	2229.723

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
CHEROKEE	Hydroelectric	Surface Water	504703	41463	23180	57411	61041	44765	52813	21456	18627	34388	39250	48769	61540
CHEROKEE	Industrial	Surface Water	459.832	38.214	36.793	37.787	45.959	44.853	38.162	43.656	43.887	30.611	38.065	27.261	34.584
CHEROKEE	Thermoelectric	Groundwater	0	0	0	0	0	0	0	0	0	0	0	0	0
CHEROKEE	Water Supply	Groundwater	45.875	3.95	3.425	3.8	3.675	4	4.15	4.1	3.975	3.55	3.875	3.775	3.6
CHEROKEE	Water Supply	Surface Water	2271.4	166.2	155	163.8	177.1	181.7	201.8	220.6	258.8	208.2	197.1	174.8	166.3
CHESTER	Golf Course	Groundwater	38.82	0	0	0	6.47	6.47	6.47	6.47	6.47	6.47	0	0	0
CHESTER	Golf Course	Surface Water	13.76	0	0	0	0.16	2	3	3.6	2.5	2	0.5	0	0
CHESTER	Hydroelectric	Surface Water	1879023.048	193243.238	65185	138903.957	187738.219	200453.297	252983	78496	62736	62806	92475	243730.241	300273.096
CHESTER	Industrial	Groundwater	3.326	0.959	0.974	0.336	0.034	0.064	0.036	0.147	0.082	0.077	0.004	0.076	0.537
CHESTER	Industrial	Surface Water	68.384	7.295	13.486	6.086	8.079	7.056	3.406	6.819	6.443	8.039	0.651	0.553	0.471
CHESTER	Water Supply	Surface Water	913	76.97	68.68	77.41	73.16	76.11	73.71	82.77	82.13	79.67	74.87	71.32	76.2
CHESTERFIELD	Golf Course	Surface Water	104.136	0.047	3.101	3.705	7.795	11.05	15.785	19.942	14.115	15.776	8.969	2.697	1.154
CHESTERFIELD	Irrigation	Groundwater	420.066	0.858	2.97	10.666	24.692	54.87	65.619	77.763	49.564	104.393	25.705	2.208	0.758
CHESTERFIELD	Irrigation	Surface Water	39	0	0	0	4	4	4	7	9	8	3	0	0
CHESTERFIELD	Mining	Groundwater	27.934	1.2	0.864	4.776	2.664	2.062	1.613	0.574	2.549	0.89	1.303	3.739	5.7
CHESTERFIELD	Water Supply	Groundwater	950.409	72.101	62.256	68.749	73.028	77.26	82.585	96.076	96.904	84.371	83.099	83.577	70.403
CHESTERFIELD	Water Supply	Surface Water	852.489	62.96	59.244	67.941	66.639	69.323	74.365	79.994	79.513	78.257	73.912	69.225	71.116
CLARENDON	Golf Course	Groundwater	27.072	0.576	0.576	1.152	1.152	2.304	4.608	4.608	4.608	1.152	4.608	1.152	0.576
CLARENDON	Golf Course	Surface Water	51	0.95	1.45	2.8	4.25	4.75	7.425	8.45	9.25	4.25	6.95	0.35	0.125
CLARENDON	Irrigation	Groundwater	329.207	25.637	15.56	15.641	14.323	29.001	32.132	37.505	43.272	20.177	33.722	52.052	10.185
CLARENDON	Irrigation	Surface Water	42.707	1.236	1.529	2.434	4.471	4.185	5.857	6.884	7.443	5.432	2.029	1.092	0.115
CLARENDON	Water Supply	Groundwater	691.785	50.084	45.137	51.389	52.805	60.545	60.734	67.266	69.63	63.493	60.703	55.348	54.651
COLLETON	Golf Course	Groundwater	70.117	1.777	4.226	5.059	8.268	6.564	14.387	8.624	6.921	11.41	1.66	1.221	0
COLLETON	Golf Course	Surface Water	205.49	9.18	8.4	11.25	14.56	13.98	21.02	32.06	26.1	21.96	24.99	9.9	12.09

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
COLLETON	Irrigation	Groundwater	1901.9	0.5	3.6	62.4	120.5	289	305.1	306.7	284.8	266.3	241.5	21.3	0.2
COLLETON	Irrigation	Surface Water	796	0	0	0	0	138	137	136	135	135	115	0	0
COLLETON	Other	Groundwater	13.006	0	0	0	0	0	0.917	0.235	0.255	6.148	3.616	1.751	0.084
COLLETON	Thermoelectric	Surface Water	894.668	65.88	10.04	23.868	55.188	41.958	164.7	114.372	109.944	30.024	146.07	59.292	73.332
COLLETON	Water Supply	Groundwater	686.326	61.472	48.319	58.861	65.954	66.061	57.477	64.474	55.667	55.703	55.386	50.895	46.057
DARLINGTON	Golf Course	Groundwater	30.7	0	0	0	7.5	4.5	4.5	6	5.2	0	3	0	0
DARLINGTON	Golf Course	Surface Water	87.06	0.59	0.57	4.3	9.3	7.5	9.8	15	14.3	10	10.7	2.9	2.1
DARLINGTON	Industrial	Groundwater	1150.693	83.232	69.85	83.676	85.72	92.391	96.329	115.193	118.654	104.126	127.707	104.493	69.322
DARLINGTON	Industrial	Surface Water	4771.624	137.927	111.06	460.747	544.54	367.3	559.041	396.385	530.688	480.863	379.394	389.329	414.35
DARLINGTON	Irrigation	Groundwater	280.864	0.879	0.499	0.699	4.25	19.123	33.197	103.33	86.293	29.254	2.32	0.97	0.05
DARLINGTON	Irrigation	Surface Water	161.992	0.69	0.4	1.032	4.69	11.54	37.55	47.1	34.93	10.22	7.98	4.81	1.05
DARLINGTON	Nuclear Power	Increased Evaporation	3442.059	242.807	249.282	279.193	286.844	319.139	324.629	323.162	318.557	319.839	289.74	244.06	244.807
DARLINGTON	Nuclear Power	Groundwater	368.153	30.982	27.877	31.005	30.676	31.095	30.548	31.847	31.721	30.378	31.105	29.822	31.097
DARLINGTON	Nuclear Power	Surface Water	301970	24987	22664	25521	24808	25913	25077	25913	25913	25077	25810	24731	25556
DARLINGTON	Other	Groundwater	1.642	0	0	0	0	0	0.648	0.67	0.324	0	0	0	0
DARLINGTON	Water Supply	Groundwater	2361.415	175.613	166.009	189.449	193.846	206.926	214.584	221.997	226.74	208.173	194.029	179.847	184.202
DILLON	Aquaculture	Groundwater	30.4	0	0	0	0	5.8	4.9	3.6	4	3.1	4.7	4.3	0
DILLON	Irrigation	Groundwater	38.7	0	0	0	0	0.9	6.3	17.5	12.5	1.5	0	0	0
DILLON	Water Supply	Groundwater	1466.213	121.023	110.088	118.3	117.706	119.434	121.994	132.162	132.001	125.826	125.401	118.527	123.751
DORCHESTER	Golf Course	Groundwater	21.5	0	0	0.5	2	3	3	4	4	4	1	0	0
DORCHESTER	Golf Course	Surface Water	26.1	0	0.1	0.5	2	3	4	5	5	5	1.5	0	0
DORCHESTER	Industrial	Groundwater	290.621	23.154	20.046	20.593	23.077	26.341	30	29.531	24.697	28.397	23.809	19.237	21.739
DORCHESTER	Industrial	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
DORCHESTER	Water Supply	Groundwater	677.199	60.287	53.767	61.915	66.282	70.563	69.417	74.559	83.026	44.992	34.53	25.653	32.208
EDGEFIELD	Golf Course	Groundwater	143.65	16.9	16.9	16.9	0	16.9	16.9	16.9	16.9	16.9	8.45	0	0
EDGEFIELD	Golf Course	Surface	24	0	0	0	1	3	5	7	7	1	0	0	0

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
		Water													
EDGEFIELD	Hydroelectric	Surface Water	780670.55	49290.11	55806.5	71841.68	56513.83	60253	61759.31	66994.1	57663.63	51923.57	64361.9	81869.71	102393.21
EDGEFIELD	Irrigation	Groundwater	18	0	0	0	2	4	4	6	2	0	0	0	0
EDGEFIELD	Irrigation	Surface Water	1992.9	1	11.5	75.2	174	262.45	359	390.8	340.65	217.8	104.5	51	5
EDGEFIELD	Water Supply	Surface Water	1577.4	117.1	105.1	116.5	128.3	143.6	173.1	177.9	153.1	131.3	119.4	106.8	105.2
FAIRFIELD	Hydroelectric	Surface Water	1310709.59	90407.7	62133.74	129075.19	148146.6	129076.3	151624.55	101134.3	104331.58	98413.33	91085.54	92310.09	112970.67
FAIRFIELD	Nuclear Power	Increased Evaporation	3889.821	44.764	401.723	444.764	430.417	444.764	430.417	444.764	444.764	430.417	28.694	14.347	329.986
FAIRFIELD	Nuclear Power	Surface Water	252692.608	26194.752	23659.776	26194.752	25349.76	26194.752	25349.76	26194.752	26194.752	25349.76	1689.984	884.992	19434.816
FAIRFIELD	Water Supply	Groundwater	28.33	2.431	2.38	1.994	2.351	2.586	2.535	2.581	2.35	2.538	2.347	1.954	2.283
FAIRFIELD	Water Supply	Surface Water	649.605	50.284	42.723	49.482	53.224	53.415	56.117	67.866	66.956	58.831	54.742	48.752	47.213
FLORENCE	Golf Course	Groundwater	79.228	2.842	2.006	1.555	7.75	2.417	8.696	11.164	8.881	12.302	8.146	7.591	5.878
FLORENCE	Golf Course	Surface Water	85.934	0.326	0.741	1.055	8.445	4.524	13.785	15.369	17.033	16.539	5.635	1.797	0.685
FLORENCE	Industrial	Groundwater	317.052	26.308	23.299	24.645	16.445	20.827	21.507	21.942	31.55	28.142	32.077	36.814	33.496
FLORENCE	Industrial	Surface Water	7522.86	484.766	670.253	607.009	589.218	609.008	747.65	755.838	783.901	661.194	599.17	557.723	457.13
FLORENCE	Irrigation	Groundwater	36.173	1.302	1.323	1.371	1.37	1.674	2.051	7.48	9.03	5.49	2.331	1.475	1.276
FLORENCE	Irrigation	Surface Water	50.55	0	0	0	11	9.5	11	11.5	6.5	1	0.05	0	0
FLORENCE	Water Supply	Groundwater	4418.451	354.524	307.911	345.765	344.511	377.601	378.353	411.646	398.846	396.717	386.222	362.341	354.014
FLORENCE	Water Supply	Surface Water	1341.95	121.99	113.15	121.34	115.27	114.74	113.88	121.21	109.84	103.79	107.82	97.77	101.15
GEORGETOWN	Golf Course	Groundwater	8.75	0	0	0	0	0	3.2	3.3	2.25	0	0	0	0
GEORGETOWN	Golf Course	Surface Water	1066.986	39.798	41.012	57.675	115.281	107.807	111.112	146.978	155.279	120.825	81.15	49.364	40.705
GEORGETOWN	Industrial	Groundwater	105.544	7.749	8.695	9	7.298	9.033	8.67	7.951	9.332	8.609	9.634	9.236	10.337
GEORGETOWN	Industrial	Surface Water	13883.649	986.369	1024.864	1020.547	1148.631	1146.219	1169.803	1206.992	1231.137	1213.731	1250.477	1205.128	1279.751
GEORGETOWN	Irrigation	Groundwater	2.864	-0.999	0.001	0.001	0.001	1.002	0.751	1.101	0.002	0.001	0.001	0.001	0.001
GEORGETOWN	Irrigation	Surface Water	115.183	2.317	3.164	4.707	10.235	11.989	15.866	20.404	21.502	11.139	6.783	4.89	2.187

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
GEORGETOWN	Thermoelectric	Surface Water	3391.992	215.356	265.32	282.96	278.79	289.38	284.49	453.72	282.15	204.797	268.059	282.24	284.73
GEORGETOWN	Water Supply	Groundwater	1130.282	94.709	83.715	96.092	89.594	108.282	99.277	110.509	97.719	101.813	84.928	81.459	82.185
GEORGETOWN	Water Supply	Surface Water	1909.339	135.93	127.653	138.224	156.882	183.342	196.666	222.198	198.832	157.283	143.499	126.984	121.846
GREENVILLE	Golf Course	Groundwater	15.506	0.316	0.273	0.244	0.529	1.867	1.995	2.507	3.001	2.094	1.559	0.111	1.01
GREENVILLE	Golf Course	Surface Water	315.026	1.426	2.436	9.266	25.347	29.918	43.936	64.715	67.185	40.433	18.926	7.119	4.319
GREENVILLE	Hydroelectric	Surface Water	103618	8220	5047	8854	15469	8925	11408	4171	2607	1507	9317	12624	15469
GREENVILLE	Industrial	Groundwater	67.019	5.916	5.013	5.417	5.697	6.306	6.125	6.459	5.607	4.907	5.254	5.799	4.519
GREENVILLE	Irrigation	Groundwater	5	0	0	0	0	0	1.5	3	0.5	0	0	0	0
GREENVILLE	Irrigation	Surface Water	70.094	0	0	1	5	5.25	7.98	18.96	13.904	12	5	1	0
GREENVILLE	Water Supply	Groundwater	32.796	3.078	2.265	1.051	1.699	2.505	3.243	5.593	4.325	2.569	2.097	2.419	1.952
GREENVILLE	Water Supply	Surface Water	23193.26	1231.67	1166.14	1222.22	1774.01	2135.6	2524.24	3008.91	2895.05	2253.44	1764	1674.75	1543.23
GREENWOOD	Golf Course	Groundwater	0.31	0.01	0.01	0.01	0.01	0.01	0.05	0.06	0.06	0.06	0.01	0.01	0.01
GREENWOOD	Golf Course	Surface Water	45.013	0	0	1.487	2.981	6.653	9.902	9.602	9.176	3.711	1.501	0	0
GREENWOOD	Hydroelectric	Surface Water	305479.77	23061.231	10333.314	36785.769	30670.707	25462.524	22441.801	9476.943	8524.04	13140.073	18707.447	40066.473	66809.448
GREENWOOD	Industrial	Groundwater	2.902	0.077	0.077	0.077	0.155	0.155	0.542	0.542	0.542	0.387	0.155	0.116	0.077
GREENWOOD	Industrial	Surface Water	1.605	0.218	0.144	0.15	0.003	0.164	0.221	0.313	0.16	0.06	0.167	0.002	0.003
GREENWOOD	Irrigation	Groundwater	1.2	0.04	0.04	0.1	0.15	0.2	0.2	0.15	0.1	0.1	0.04	0.04	0.04
GREENWOOD	Thermoelectric	Surface Water	5.07	0.41	0.17	0.55	0.68	0.52	0.52	0.12	0.05	0.19	0.58	0.62	0.66
GREENWOOD	Water Supply	Groundwater	0.25	0.017	0.021	0.022	0.023	0.019	0.02	0.022	0.02	0.019	0.021	0.021	0.025
GREENWOOD	Water Supply	Surface Water	3600.276	287.846	266.337	280.489	287.573	294.671	317.811	353.574	340.756	299.375	299.045	282.657	290.142
HAMPTON	Aquaculture	Groundwater	184.067	7.789	6.16	5.389	24.246	11.539	22.446	13.339	25.939	38.346	17.839	6.696	4.339
HAMPTON	Golf Course	Groundwater	42.41	0.1	0.1	1.31	3.6	5.9	7.2	7	6.5	6.4	3.6	0.6	0.1
HAMPTON	Industrial	Groundwater	183.5	19	15.5	15.1	16.2	19.3	19.6	17.4	16.1	13.6	12.7	10.1	8.9
HAMPTON	Irrigation	Groundwater	1769.51	18.497	58.238	46.392	89.427	222.502	348.519	421.577	214.741	166.943	97.187	63.674	21.813
HAMPTON	Irrigation	Surface Water	57.6	0	0	0	0	0	0	8	4	4	18	18	5.6

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
HAMPTON	Water Supply	Groundwater	539.426	49.646	41.354	42.768	41.707	44.588	42.508	51.014	50.83	47.601	46.739	40.662	40.009
HORRY	Golf Course	Groundwater	588.484	6.034	17.559	31.613	72.31	79.599	84.537	77.175	69.437	73.43	46.33	26.978	3.482
HORRY	Golf Course	Surface Water	2929.063	40.804	63.968	145.662	332.286	341.022	403.049	478.062	439.116	378.64	180.364	98.293	27.797
HORRY	Industrial	Groundwater	83.109	6.871	7.704	7.417	6.349	6.46	7.833	8.113	6.923	6.002	7.115	5.934	6.388
HORRY	Industrial	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
HORRY	Irrigation	Groundwater	105.794	6.295	3.579	1.32	9.155	5.529	7.805	12.943	15.148	22.017	15.413	4.388	2.202
HORRY	Irrigation	Surface Water	12.822	0.192	0.174	1.141	0.277	2.497	1.971	2.77	2.389	1.04	0.334	0.026	0.011
HORRY	Mining	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
HORRY	Other	Groundwater	7.837	0.837	0.515	0.654	0.698	0.559	0.497	0.688	0.719	0.446	1.016	0.73	0.478
HORRY	Thermoelectric	Surface Water	21474.2	2781.4	1931.4	1571	1254	1295.8	2227.4	2831.9	2490.5	1254	1231.3	1254	1351.5
HORRY	Water Supply	Groundwater	1749.156	104.129	115.075	130.539	149.127	174.594	197.754	207.512	190.666	158.381	130.545	103.813	87.021
HORRY	Water Supply	Surface Water	14963.244	1048.634	934.114	1118.244	1326.11	1423.784	1496.723	1637.827	1474.096	1253.143	1158.007	1063.69	1028.872
JASPER	Aquaculture	Groundwater	0	0	0	0	0	0	0	0	0	0	0	0	0
JASPER	Golf Course	Groundwater	36.401	0	0	0	0	0	0	16.256	15.319	4.826	0	0	0
JASPER	Golf Course	Surface Water	23.689	0.84	0.475	1.374	2.13	2.453	5.397	4.549	2.429	3.787	0.255	0	0
JASPER	Irrigation	Groundwater	385.559	2.643	9.538	8.977	24.511	35.274	105.856	71.014	38.595	64.954	19.518	3.808	0.871
JASPER	Irrigation	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
JASPER	Water Supply	Groundwater	361.803	28.954	27.127	27.378	29.827	30.587	32.981	36.43	31.937	30.223	31.11	27.487	27.762
KERSHAW	Golf Course	Groundwater	34	0	0	2	3	5	5	6	6	5	2	0	0
KERSHAW	Golf Course	Surface Water	43.703	0.001	0	2.2	3.6	6.2	6.6	8.2	8.3	6.2	2.4	0.002	0
KERSHAW	Hydroelectric	Surface Water	1248728	109351	35179	167099	107187	106656	141628	38394	31024	28239	47022	174583	262366
KERSHAW	Industrial	Groundwater	425.569	41.227	41.426	42.612	36.465	34.231	39.203	34.662	36.466	30.442	32.857	29.31	26.668
KERSHAW	Industrial	Surface Water	765.884	58.254	58.109	60.15	59.176	67.062	71.198	73.992	77.747	69.636	61.932	52.64	55.988
KERSHAW	Water Supply	Groundwater	738.65	59.679	52.103	54.96	59.338	60.741	69.374	74.059	68.458	65.877	64.895	54.741	54.425
KERSHAW	Water Supply	Surface Water	1537.524	115.677	102.129	116.703	123.167	138.137	146.883	154.591	149.08	142.338	125.955	110.21	112.654

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
LANCASTER	Golf Course	Groundwater	5.505	0	0	0	0	0	1.2	1.34	1.565	1.4	0	0	0
LANCASTER	Golf Course	Surface Water	33.211	0	0.06	0.62	3.666	3.101	6.9	5.8	5.4	6.8	0.842	0.022	0
LANCASTER	Hydroelectric	Surface Water	1050201	104111	40543	110461	89699	90190	109612	40363	31835	31856	45756	156548	199227
LANCASTER	Industrial	Surface Water	640	77.5	42	46.5	51	52.7	42	43.4	55.8	54	68.2	48	58.9
LANCASTER	Water Supply	Surface Water	6029.57	449.8	389.1	423.05	454.98	512.34	577.8	643	600.6	576.9	531.6	436.1	434.3
LAURENS	Golf Course	Surface Water	53.969	0.7	0.9	3.23	3.6	3.62	9.528	12.648	12.013	4	2.23	0.9	0.6
LAURENS	Hydroelectric	Surface Water	13.277	0.97	0.78	1.3	1.4	0.8	1.2	0.167	0.06	0.5	1.3	1.7	3.1
LAURENS	Water Supply	Surface Water	1645.244	135.659	106.057	117.644	130.184	137.773	143.833	161.168	161.748	146.641	137.122	129.85	137.565
LEE	Irrigation	Groundwater	188.398	0	0	0	0	4.1	41.073	70.967	62.258	10	0	0	0
LEE	Irrigation	Surface Water	8	0	0	0	0	0	3	5	0	0	0	0	0
LEE	Water Supply	Groundwater	454.814	46.714	42.967	46.085	44.013	45.532	33.501	38.781	37.214	32.704	31.386	28.412	27.505
LEXINGTON	Golf Course	Groundwater	30.45	0.7	0.85	1.7	3	3.4	3.9	4.6	2.9	3.1	3	1.9	1.4
LEXINGTON	Golf Course	Surface Water	195.543	2.73	4.699	10.768	16.369	23.492	27.845	28.572	27.706	22.756	15.75	11.196	3.66
LEXINGTON	Hydroelectric	Surface Water	264253.4	28316.98	3114.72	40467.52	31483.38	30019.7	15808.77	2511.19	1469.81	1233.61	20809.65	75056.27	13961.8
LEXINGTON	Industrial	Groundwater	268.224	25.729	21.168	22.435	19.213	18.734	23.357	22.696	24.238	24.482	23.605	22.931	18.636
LEXINGTON	Industrial	Surface Water	9492.478	651.181	572.336	748.072	555.941	659.947	794.528	933.837	903.701	864.305	887.174	937.615	983.841
LEXINGTON	Irrigation	Groundwater	2272.092	22.658	16.184	16.892	29.249	165.561	409.231	661.192	327.751	357.103	162.544	66.044	37.683
LEXINGTON	Irrigation	Surface Water	805.037	10.555	16.005	23.304	40.573	59.487	69.395	104.154	90.322	74.941	53.461	244.827	18.013
LEXINGTON	Mining	Groundwater	477.1	67.57	1	68.99	2	70.36	2.3	67.69	2.9	58.65	2.4	65.21	68.03
LEXINGTON	Mining	Surface Water	247.3	17.82	19.23	17.79	21.3	18.66	21.13	26.66	22.5	21.85	24.68	22.05	13.63
LEXINGTON	Thermoelectric	Surface Water	33190.21	1490.06	173.06	1085.81	1158.81	2182.91	4813.73	4980.68	5175.26	42.17	5175.26	2407.04	4505.42
LEXINGTON	Water Supply	Groundwater	483.717	37.319	30.904	33.905	38.893	41.361	50.222	52.655	47.331	41.568	38.774	36.496	34.289
LEXINGTON	Water Supply	Surface Water	5877.204	409.961	373.842	414.325	469.955	499.989	589.162	655.311	617.883	531.663	471.634	421.887	421.592
MARION	Golf Course	Groundwater	0	0	0	0	0	0	0	0	0	0	0	0	0

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
MARION	Golf Course	Surface Water	10.5	0	0	0.5	1	1	1	1.5	2.5	1.5	1	0.5	0
MARION	Irrigation	Groundwater	15.685	0	0	0.012	0.024	1.159	0.459	2.959	5.509	5.539	0.024	0	0
MARION	Irrigation	Surface Water	0.225	0	0	0.015	0.015	0.015	0	0	0	0	0.18	0	0
MARION	Water Supply	Groundwater	1171.395	97.986	88.884	96.824	95.623	101.838	104.248	106.41	102.118	97.757	98.272	91.97	89.465
MARLBORO	Golf Course	Surface Water	2.555	0.05	0.05	0.19	0.29	0.35	0.415	0.415	0.39	0.14	0.19	0.025	0.05
MARLBORO	Industrial	Groundwater	151.24	9.787	8.483	10.703	16.061	15.177	19.204	17.987	14.998	11.212	10.822	9.178	7.628
MARLBORO	Industrial	Surface Water	5814.88	461.496	439.78	464.255	479.661	506.802	496.453	528.944	546.276	532.752	440.064	478.886	439.511
MARLBORO	Irrigation	Groundwater	213.91	0.8	0.8	0.7	13.815	21.516	51.347	49.147	39.415	30.27	5.2	0.5	0.4
MARLBORO	Irrigation	Surface Water	200.02	0	0	0	7.261	42.102	90.762	33.158	16.679	10.058	0	0	0
MARLBORO	Water Supply	Groundwater	1059.823	88.178	72.701	85.743	85.831	91.673	96.656	96.146	98.309	94.329	85.596	81.186	83.475
MARLBORO	Water Supply	Surface Water	320.05	28.26	24.75	26	26.56	26.72	27.14	27.47	27.48	26.51	25.74	27.16	26.26
MCCORMICK	Golf Course	Surface Water	52.625	0.872	1.456	1.071	3.185	6.209	8.996	15.373	8.968	3.901	1.622	0.957	0.015
MCCORMICK	Water Supply	Surface Water	388.12	30.078	26.961	28.154	29.438	32.689	38.355	41.632	37.845	34.19	32.703	27.275	28.8
NEWBERRY	Golf Course	Surface Water	12.15	0	0	0	0.05	0.05	2.5	3.5	3	3	0.05	0	0
NEWBERRY	Irrigation	Groundwater	83.298	5.494	5.464	5.464	5.514	8.164	6.814	9.764	12.814	6.464	6.014	5.764	5.564
NEWBERRY	Irrigation	Surface Water	227.841	1.02	7.02	23.5	24.452	24.512	32.413	35.509	24.611	18.672	23.612	10.5	2.02
NEWBERRY	Water Supply	Groundwater	12.023	0.467	0.47	1.325	1.172	1.114	1.349	1.194	1.313	0.321	1.033	1.112	1.153
NEWBERRY	Water Supply	Surface Water	2377.487	191.895	172.454	191.403	206.283	214.343	218.775	216.225	208.296	197.943	192.351	182.861	184.658
OCONEE	Golf Course	Surface Water	97.908	0.559	0.695	3.534	6.253	9.176	18.394	24.347	18.044	10.96	3.648	1.907	0.391
OCONEE	Hydroelectric	Surface Water	13.97	1.2	0.6	1.7	1.5	1.1	0.65	0.12	0.44	0.86	1.5	1.6	2.7
OCONEE	Industrial	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
OCONEE	Irrigation	Surface Water	331.05	11	12	17	28.3	31.5	36.5	39	38.5	36.5	35.75	30	15
OCONEE	Nuclear Power	Increased Evaporation	8983	880	787	873	791	655	834	850	854	804	516	502	637

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
OCONEE	Nuclear Power	Surface Water	2215174	192301	145756	139728	156967	188085	231624	252330	256060	168572	167945	141856	173950
OCONEE	Water Supply	Groundwater	24.97	1.73	1.58	1.8	1.95	2.13	2.02	3.3	2.5	2.26	2.16	1.8	1.74
OCONEE	Water Supply	Surface Water	3556.52	292.084	251.613	261.82	271.483	295.033	339.132	387.072	345.496	306.124	279.432	263.503	263.728
ORANGEBURG	Golf Course	Groundwater	42.067	1.379	1.635	2.083	2.982	2.521	4.036	4.228	5.729	13.755	2.214	1.255	0.25
ORANGEBURG	Golf Course	Surface Water	114.746	4.786	2.204	4.029	6.249	16.701	17.851	8.908	8.472	9.851	14.445	8.648	12.602
ORANGEBURG	Industrial	Groundwater	466.77	36.086	32.539	37.308	36.902	38.949	44.969	42.299	42.76	46.867	37.96	34.618	35.513
ORANGEBURG	Industrial	Surface Water	129.105	9.453	7.946	6.857	5.428	5.998	13.559	14.074	12.397	12.895	10.567	14.416	15.515
ORANGEBURG	Irrigation	Groundwater	2952.211	13.344	21.616	113.687	186.829	323.41	496.208	508.923	474.921	411.968	268.314	106.684	26.307
ORANGEBURG	Irrigation	Surface Water	1501.374	3.261	5.562	7.262	74.846	92.156	369.091	351.147	359.43	163.036	54.462	17.424	3.697
ORANGEBURG	Mining	Groundwater	1764.33	71.56	141.24	144.91	181.46	112.99	175.91	139.67	144.55	181.12	180.66	108.91	181.35
ORANGEBURG	Thermoelectric	Groundwater	1440.409	134.859	122.646	85.671	43.535	124.938	138.666	146.336	132.299	123.547	117.144	121.903	148.865
ORANGEBURG	Thermoelectric	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
ORANGEBURG	Water Supply	Groundwater	491.549	39.619	34.558	35.085	36.988	42.223	45.6	46.544	46.302	43.625	42.704	41.622	36.679
ORANGEBURG	Water Supply	Surface Water	2667.047	206.679	187.074	197.538	203.332	210.16	231.978	255.991	258.427	243.025	232.995	216.878	222.97
PICKENS	Golf Course	Surface Water	292.526	2.501	5.129	13.221	25.54	22.862	49.269	66.707	56.177	36.576	9.457	3.343	1.744
PICKENS	Hydroelectric	Surface Water	2367182	189310	143663	127687	149794	186965	279314	301633	331141	188930	158312	102283	208150
PICKENS	Industrial	Surface Water	2050.725	31.145	65.268	38.862	219.479	293.047	320.61	125.548	242.283	342.212	289.895	47.466	34.91
PICKENS	Water Supply	Surface Water	3693.625	305.727	279.32	314.842	318.221	336.833	337.989	426.283	406.945	109.739	299.97	281.776	275.98
RICHLAND	Aquaculture	Groundwater	11.2	0	0.5	1	2	2.5	2.2	1	1	0.5	0.5	0	0
RICHLAND	Aquaculture	Surface Water	38.6	1	2.3	8.2	8.1	6.2	2.3	2.1	2.2	2.4	2	1	0.8
RICHLAND	Golf Course	Groundwater	73.938	1.01	1.01	1.6	5.75	7.645	13.379	12.199	13.554	7.981	7.25	1.55	1.01
RICHLAND	Golf Course	Surface Water	326.108	2.116	3.38	7.052	18.586	34.773	50.574	55.368	58.261	57.223	28.985	7.06	2.73
RICHLAND	Hydroelectric	Surface Water	242257.2	20837.14	13095.94	30596.76	37886.99	26619.3	26500.57	4820.44	3466.92	7658.1	17120.89	26512.44	27141.71
RICHLAND	Industrial	Groundwater	686.126	52.994	57.531	60.959	58.502	57.991	56.032	57.974	58.197	47.693	57.713	57.937	62.603

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
RICHLAND	Industrial	Surface Water	10182.656	820.711	747.145	820.077	796.769	843.481	879.838	927.152	920.08	794.698	906.216	862.738	863.751
RICHLAND	Irrigation	Groundwater	7.644	0	0	0	0	0	0	0	2.18	5.464	0	0	0
RICHLAND	Irrigation	Surface Water	0.552	0	0	0	0.1	0.25	0.2	0.001	0	0.001	0	0	0
RICHLAND	Mining	Groundwater	352.81	14.78	16.3	24.19	21.34	19.99	15.79	18.65	24.7	24.19	28.06	73.92	70.9
RICHLAND	Thermoelectric	Surface Water	3948.24	390.31	356.17	292.86	273.93	339.36	366.36	392.67	392.13	335.73	275.82	254.03	278.87
RICHLAND	Water Supply	Groundwater	242.0567	27.9394	21.7585	20.7974	19.3825	20.2326	18.9041	16.242	21.248	21.2189	21.5255	15.0993	17.7085
RICHLAND	Water Supply	Surface Water	21679.9	1620.28	1483.43	1659.18	1752.37	1953.86	2030.84	2254.75	2194.89	1857.4	1748.23	1657.23	1467.44
SALUDA	Irrigation	Surface Water	1388.1	2	2	50	112	246.1	313	291	207	115	50	0	0
SALUDA	Water Supply	Groundwater	5.36	0.085	0.018	0.343	1.086	0.925	0.906	0.567	0.75	0.455	0	0.151	0.074
SPARTANBURG	Aquaculture	Surface Water	35.043	2.976	2.688	2.979	2.88	2.976	2.88	2.976	2.976	2.88	2.976	2.88	2.976
SPARTANBURG	Golf Course	Groundwater	25.666	0.445	0.425	0.702	0.962	2.227	2.84	4.975	5.1	2.635	3.55	1.585	0.22
SPARTANBURG	Golf Course	Surface Water	260.766	3.541	3.116	7.178	18.814	31.116	40.25	46.481	35.057	30.309	23.825	16.867	4.212
SPARTANBURG	Hydroelectric	Surface Water	8884.58	725.22	140.68	1574.68	848.36	749.3	1047.14	2.3	1.7	3	256.08	1790.84	1745.28
SPARTANBURG	Industrial	Groundwater	0	0	0	0	0	0	0	0	0	0	0	0	0
SPARTANBURG	Irrigation	Surface Water	110.7	2	2.8	6.1	8.4	9.2	11.7	14.3	15.5	15.4	11.7	8.9	4.7
SPARTANBURG	Water Supply	Groundwater	21.475	1.746	1.666	1.707	1.558	1.692	2.324	2.347	2.626	2.194	1.928	1.687	0
SPARTANBURG	Water Supply	Surface Water	12520.222	912.327	825.119	918.036	936.661	1007.262	1086.059	1303.366	1280.37	1170.353	1070.716	1069.083	940.87
SUMTER	Golf Course	Groundwater	70.75	1.25	1.25	1	1.25	2.5	8.73	14.2	14.58	13.08	7.16	3.25	2.5
SUMTER	Golf Course	Surface Water	192.789	0.59	1.067	1.884	16.45	12.821	27.711	42.331	36.792	33.283	16.413	2.937	0.51
SUMTER	Industrial	Groundwater	198.749	18.078	17.435	21.111	18.222	17.982	19.425	15.077	14.7	9.678	16.051	15.332	15.658
SUMTER	Irrigation	Groundwater	1038.738	6.16	3.08	18.48	81.272	96.448	264.114	208.875	207.84	125.316	20.993	6.16	0
SUMTER	Irrigation	Surface Water	443.26	0	0	19.1	35.5	59.7	93.5	102.7	94.66	32.1	6	0	0
SUMTER	Water Supply	Groundwater	4683.035	379.088	345.967	382.564	387.386	397.871	416.465	427.143	428.108	417.192	383.686	363.903	353.662
UNION	Golf Course	Surface Water	7	0	0	0	1	1	1	1.5	1.5	1	0	0	0

County	Use Type	Source Type	2009 Total Use	January	February	March	April	May	June	July	August	September	October	November	December
UNION	Hydroelectric	Surface Water	236689.35	24167.13	14554.92	16399.37	23749.29	15067.74	23947.98	9300.26	5476.55	13538.98	20695.27	32248.92	37542.94
UNION	Industrial	Groundwater	2.689	0.166	0.238	0.253	0.213	0.21	0.198	0.242	0.219	0.216	0.242	0.24	0.252
UNION	Industrial	Surface Water	417.5	40	40	42	42	40	40	30	28.4	30	28.4	26.7	30
UNION	Water Supply	Surface Water	1939.154	91.569	78.507	81.719	85.345	93.279	104.066	118.902	115.995	105.489	100.82	877.655	85.808
WILLIAMSBURG	Golf Course	Surface Water	26.621	0.576	0.576	1.152	1.152	2.304	4.16	4.605	4.608	1.152	4.608	1.152	0.576
WILLIAMSBURG	Industrial	Groundwater	532.178	48.884	40.693	41.738	39.804	44.504	42.054	38.339	47.635	39.286	38.517	56.112	54.612
WILLIAMSBURG	Irrigation	Groundwater	15.1	0	0	0	0	2.3	4.1	3.8	3.2	1.7	0	0	0
WILLIAMSBURG	Irrigation	Surface Water	0	0	0	0	0	0	0	0	0	0	0	0	0
WILLIAMSBURG	Water Supply	Groundwater	718.465	55.453	51.522	55.885	58.772	64.172	63.053	62.701	70.001	63.436	58.768	58.645	56.057
YORK	Golf Course	Groundwater	129.95	0.25	2.4	2.1	14	19.25	25.65	19.1	20.975	19	3.125	2.6	1.5
YORK	Golf Course	Surface Water	140.262	0.412	2.47	5.323	10.414	15.702	25.187	26.659	24.378	17.524	5.331	4.645	2.217
YORK	Hydroelectric	Surface Water	913052	79204	25202	95689	78514	95630	117618	32156	26464	27143	38473	134569	162390
YORK	Industrial	Groundwater	1.713	0.192	0.158	0.181	0.218	0.115	0.096	0.171	0.092	0.093	0.096	0.127	0.174
YORK	Industrial	Surface Water	10143.24	866.96	707.48	801.96	811.8	819.96	856.8	866.96	928.96	871.8	886.8	853.8	869.96
YORK	Irrigation	Surface Water	3.43	0	0	0.44	0.17	0.53	0.46	0.49	0.45	0.24	0.34	0.16	0.15
YORK	Mining	Groundwater	178.18	11.8	10.62	16.52	12.98	17.7	14.16	17.7	11.8	11.8	16.52	17.7	18.88
YORK	Nuclear Power	Increased Evaporation	11358	1085	978	633	698	1094	1059	1098	1100	1058	1089	618	848
YORK	Nuclear Power	Surface Water	46473	4169	3709	3912	3743	3888	3787	4208	4289	3578	3777	3577	3836
YORK	Other	Surface Water	2.41	0	0	0.1	0.25	0.25	0.5	0.5	0.5	0.2	0.1	0.01	0
YORK	Water Supply	Groundwater	26.432	2.977	2.492	0	0	0	0	0.843	5.818	5.884	6.265	2.153	0
YORK	Water Supply	Surface Water	5676.183	424.113	395.175	425.977	442.611	483.6	548.353	619.234	556.415	522.193	459.303	397.642	401.567