Development of a 10- and 12-Digit Hydrologic Unit Code Numbering System for South Carolina, 2005

By Jeannie P. Eidson, Cynthia M. Lacy, Luke Nance, William F. Hansen, Mark A. Lowery, and Noel M. Hurley, Jr.

Prepared in cooperation with the U.S. Geological Survey, the South Carolina Department of Health and Environmental Control, and the U.S. Forest Service

U.S. Department of Agriculture
Natural Resources Conservation Service

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Contents

Plate

Figures

Tables

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54	centimeter (cm)
inch (in.)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
	Area	
acre	4,047	square meter (m^2)
acre	0.4047	hectare (ha)
square mile (mi^2)	259.0	hectare (ha)
square mile (mi^2)	2.590	square kilometer (km^2)

Datums

Vertical coordinate information is referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

Horizontal coordinate information is referenced to the North Americal Datum of 1983 (NAD 83) except figures 1 and 2, which are referenced to the North American Datum of 1927 (NAD 27).

Elevation, as used in this report, refers to distance above the vertical datum.

Abbreviations and Acronyms

DRG	digital raster graphics
FGDC	Federal Geographic Data Committee
ft/mi	foot per mile
GIS	geographic information system
HU	hydrologic unit
HUC	hydrologic unit code
NHD	national hydrography data
NRCS	Natural Resources Conservation Service
SCDHEC	South Carolina Department of Health and Environmental Control
USDA	U.S. Department of Agriculture
USFS	U.S. Forest Service
USGS	U.S. Geological Survey

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By Jeannie P. Eidson[1] , Cynthia M. Lacy[1], Luke Nance[2], William F. Hansen[3], Mark A. Lowery[4], and Noel M. Hurley, Jr.[4]

Abstract

A hydrologic unit map showing the subbasins, watersheds, and subwatersheds of South Carolina was developed to represent 8-, 10-, and 12-digit hydrologic unit codes, respectively. The 10- and 12-digit hydrologic unit codes replace the 11- and 14-digit hydrologic unit codes developed in a previous investigation. Additionally, substantial changes were made to the 8-digit subbasins in the South Carolina Coastal Plain. These modifications include the creation of four new subbasins and the renumbering of existing subbasins. One change was made at the 4-digit (subregion) level.

This new hydrologic unit map presents information on drainage, hydrography, and hydrologic boundaries of the water-resources regions, subregions, basins (formerly described as accounting units), subbasins (formerly described as cataloging units), watersheds, and subwatersheds. The source maps for the basin delineations are 1:24,000-scale 7.5-minute series topographic maps, and 1:24,000-scale digital raster graphics.

A total of 271 watersheds (10-digit hydrologic units) were delineated. Of these, 262 are sized within the standard range of 40,000 to 250,000 acres; 5 watersheds are larger and 4 smaller than this range. Of the 971 total subwatersheds (12-digit hydrologic units) delineated for this project, 868 range in size from 10,000 to 40,000 acres (15.6 to 62.5 square miles), 77 range in size from 3,000 to 10,000 acres (4.69 to 15.6 square miles), and 26 subwatersheds are larger than 40,000 acres.

This map and its associated codes provide a standardized base for water-resource managers, planners, and analysts to use in locating, storing, retrieving, and exchanging hydrologic data. In addition, the map can be used for cataloging water-data acquisition activities, geographically organizing hydrologic data, and planning and describing water-use and related land-use activities associated with hydrologic units at landscape scales.

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Introduction

In recent years, the development of urban and suburban areas has increased substantially in South Carolina. Along with the economic benefits that accompany such urbanization comes increased pressure for assurance from design engineers, urban planners, and regulatory agencies that this growth has minimal adverse effects on the State's natural resources and, in particular, water resources. Water quality, including point and nonpoint contaminant sources, and constituent mixing and transport are closely associated with hydrologic units. Aquatic habitats, community water systems, swimming areas, recreational sites, industrial needs, irrigation, fire control, and other beneficial water uses also require careful management and stewardship of these resources.

Although many factors must be examined for the proper development and management of the State's water resources, the hydrologic unit associated with the area of interest is one of the most important factors to be considered. State and Federal agencies and many nongovernmental organizations in South Carolina reference drainage areas on a regular basis for planning purposes. Engineers consider drainage area in the design of various hydraulic structures, such as bridges, culverts, dams, and storm-sewer systems, as well as water- and wastewater-treatment plants. Regulatory and management authorities use drainage-area data to help assess the effects of proposed development on peak flow, flood elevation, and water quality of streams. Drainage-area data also are important for emergency forecasting and response. In addition, many Federal, State, and local agencies may require identification of hydrologic units for contracting, permitting, and reporting.

Background

In 1972, the U.S. Geological Survey (USGS) Office of Water Data Coordination, the U.S. Water Resources Council, and the USGS Resources and Land Information program initiated the production of the map series called "hydrologic unit maps," which present codes, names, and boundaries of hydrologic units in the United States and its territories in the Caribbean area (Seaber and others, 1975). In the map series,

the United States is divided into 21 major hydrologic regions, and South Carolina is almost entirely within region 03. Three acres in the northwestern part of the State are in region 06. These 2-digit regions were then subdivided into 222 subregions, 352 basins (formerly accounting units), and 2,150 subbasins (formerly cataloging units), each having a 2-digit identifier to establish the original 8-digit hydrologic unit code (HUC; U.S. Geological Survey, 1974).

In the late 1970s, the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS, formerly called the Soil Conservation Service) issued a policy for all water-resource investigations and surveys to be coded to allow the resulting data to be retrieved by HUC. The NRCS initiated a national program to further subdivide HUCs into watersheds for use in water-resource planning. A 3-digit extension was added to the 8-digit HUC to designate watersheds (U.S. Department of Agriculture, 1991). The resulting 11-digit watershed hydrologic units identified drainage areas ranging from approximately 40,000 to 250,000 acres (62.5 to 391 square miles (mi^2)).

In 1998, the USGS, in cooperation with the South Carolina Department of Health and Environmental Control (SCDHEC) and the NRCS, developed a statewide dataset, in written and digital formats, that subdivided 11-digit watersheds into 14-digit subwatersheds. These subwatersheds generally ranged in size from 3,000 to 40,000 acres (4.69 to 62.5 mi^2) and served as a reference for drainage-area information. These delineations provided water-resources managers and regulators with more-detailed data for use in water-quality assessments, resource management, and protection plans by selecting the appropriate size hydrologic unit. The development of the 14-digit hydrologic unit code numbering system for South Carolina was documented by Bower and others (1999).

Following the development of the 14-digit hydrologic unit code for South Carolina (Bower and others, 1999), guidelines for the delineation of hydrologic unit boundaries were changed with the goal of developing a nationally consistent hydrologic unit dataset. In 2002, with input from several Federal and State agencies and Tribes, the Federal Geographic Data Committee (FGDC), Subcommittee for Spatial Water Data, proposed Federal guidelines for delineating hydrologic unit boundaries (Federal Geographic Data Committee, 2002). These guidelines build upon the original NRCS guidelines (U.S. Department of Agriculture, 1992) and establish nationally consistent methods for developing subdivisions of the 8-digit hydrologic units (HUs). These guidelines specify the numbering of HUs from the headwaters downstream and better coordinate the numbering and connecting of HUs and streams with the national hydrography data (NHD) between and among states. Important changes to the South Carolina dataset included consolidating and renumbering watersheds and subwatersheds as appropriate; converting the 11- and 14-digit numbering system for watersheds and subwatersheds to a 10- and 12-digit numbering system, respectively; delineating watersheds and subwatersheds in lakes to follow legacy channels; and using bathymetric data to aid in delineating boundaries, where needed, within broad flood plains and coastal areas out to a depth of 30 feet (ft). Additionally, substantial changes were made to the 8-digit subbasins in the South Carolina Coastal Plain. These modifications include the creation of four new subbasins and the renumbering of existing subbasins.

During 2003–04, the USGS, NRCS, U.S. Forest Service (USFS), and the SCDHEC (referred to hereafter as the Working Group) worked jointly to modify the existing 11- and 14-digit HU dataset to conform to the Federal Geographic Data Committee (2002) guidelines. The new statewide dataset supersedes the system documented in Bower and others (1999) and provides delineations at the subwatershed (12-digit HU) level. These subwatersheds generally range in size from 10,000 to 40,000 acres (15.6 to 62.5 mi^2).

Purpose and Scope

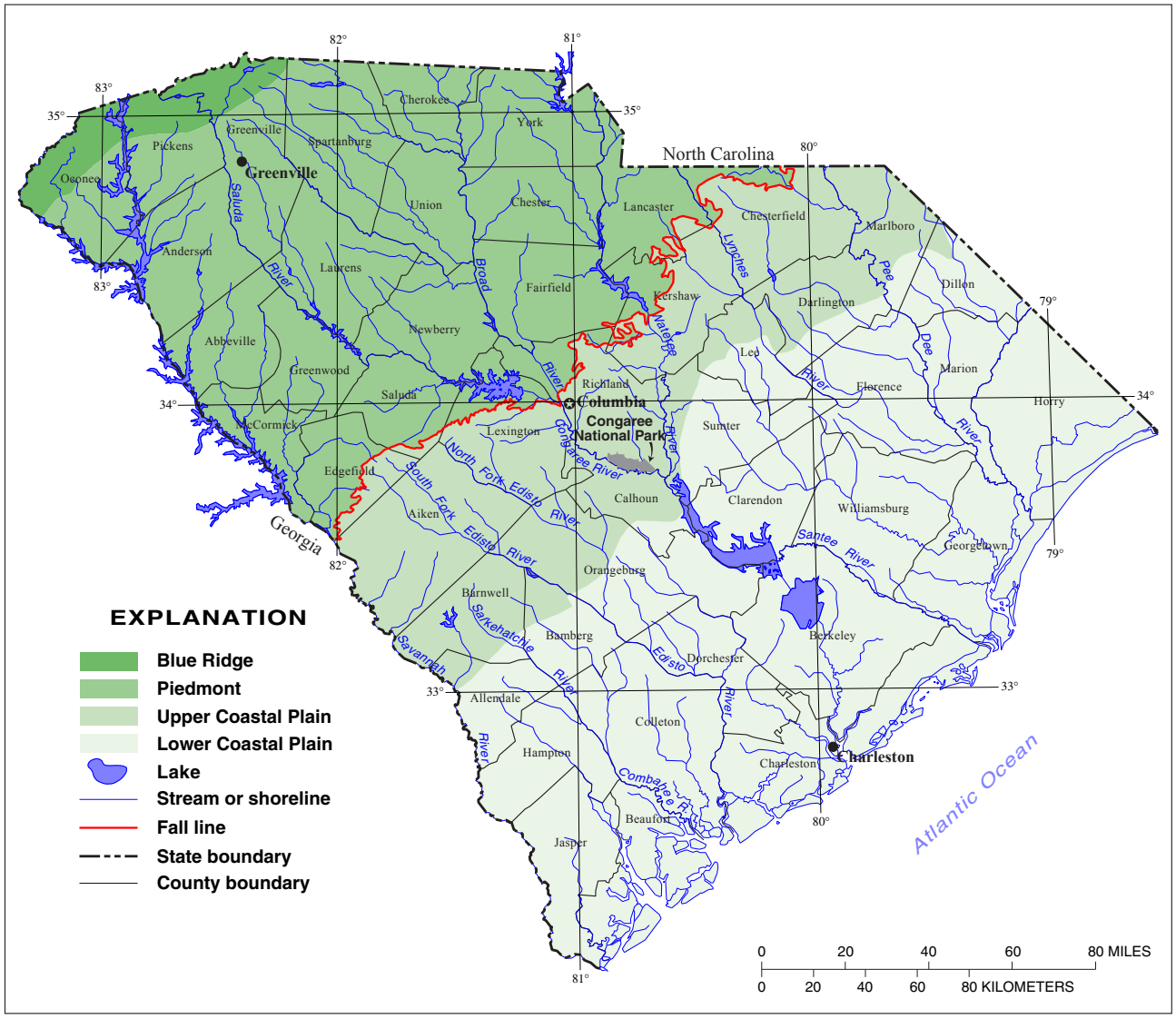
The purpose of this report is to describe the 2005 update to the South Carolina part of the USGS standard hydrologic unit map series and to present the 10-digit watersheds and 12-digit subwatersheds (pl. 1). This report supersedes USGS Water-Resources Investigations Report 99–4015. The study area includes the entire State of South Carolina and areas where the 12-digit subwatersheds extend into North Carolina and Georgia.

Description of Study Area

South Carolina encompasses an area of 31,055 mi^2 that includes parts of three physiographic provinces—the Blue Ridge, Piedmont, and Coastal Plain. The South Carolina Coastal Plain is further divided into the upper and lower Coastal Plain (fig. 1).

Only 2 percent of the land area of South Carolina is in the Blue Ridge Physiographic Province, which is in the mountainous area in the northwestern part of the State. Forests dominate this region of the State, accounting for 91 percent of the land cover. Pasture comprises 3 percent of the land cover with row crops and open water contributing another 4 percent (2 percent each). Residential and commercial developments make up less than 1 percent of the region as does barren land such as quarries and bare rock (U.S. Geological Survey, 1999). Land-surface elevations range from 1,000 to more than 3,500 ft above National Geodetic Vertical Datum of 1929 (NGVD 29). The dominant forest types in upland areas are Virginia pine and shortleaf pine, chestnut, and scarlet oak species; eastern hemlock, yellow poplar, and white pine with dense undergrowth of rhododendron and mountain laurel commonly dominate moist areas near coves and streamsides (Van Lear and others, 1995; U.S. Department of Agriculture, 2004).

Rainfall in the South Carolina Blue Ridge is well distributed throughout the year, and mean annual precipitation



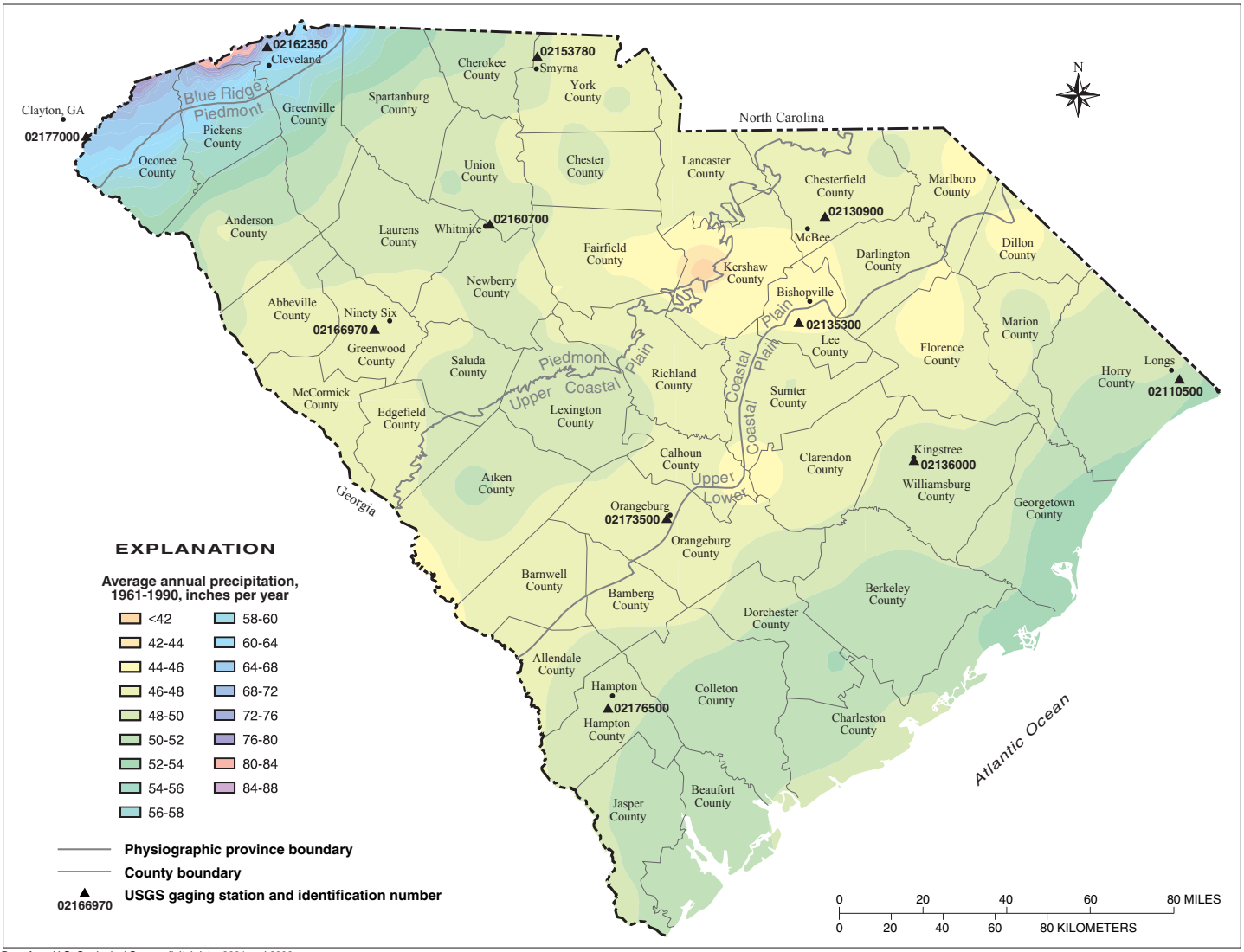
Base from U.S. Geological Survey digital data, 2001 and 2002, 1:2,000,000-scale Albers Equal Area Conic projection, standard parallels 29°30'N and 45°30'N, central meridian 96°00'W, rotated -8.5°, datum NAD 27

Figure 1. Locations of physiographic provinces and selected hydrologic features of South Carolina.

in the province ranges from about 70 to 80 inches (in.; South Carolina Department of Natural Resources, 2005a; fig. 2). About 50 percent of the rainfall returns to streamflow, as evidenced in the long-term streamflow records from USGS gaging station 02177000, Chattooga River near Clayton, Ga., which had a mean annual runoff of 42.42 in. for water years[5] 1940–2003, and from USGS gaging station 02162350, Middle Saluda River near Cleveland, S.C., which had a mean annual runoff of 36.99 in. for water years 1981–2003 (Cooney and others, 2004; fig. 2).

The Blue Ridge Province is composed of meta-sedimentary rocks of the amphibolite facies, which have been intruded by igneous rocks of Paleozoic age (Overstreet and Bell, 1965). The rock types in some areas are highly weathered, which increases their erodibility. Most of the perennial and intermittent streams are entrenched to moderately entrenched, with low to high width-to-depth ratios (Rosgen, 1996; W.F. Hansen, U.S. Forest Service, written commun., March 2005). Landforms at the subwatershed and watershed scales generally are moderately steep to very steep and include small flats along some ridges, upland valleys and narrow flood plains, and riparian areas. Drainage generally is dendritic, with some linear sections controlled by geologic structures (such as the shear lineament of the Brevard fault zone). Riparian areas at subbasin and basin scales generally

[5]A water year is the 12-month period from October 1 through September 30 and is identified by the calendar year in which the period ends. For example, the water year ending September 30, 2003, is the 2003 water year.



Base from U.S. Geological Survey digital data, 2001 and 2002, 1:2,000,000-scale Albers Equal Area Conic projection, standard parallels 29°30'N and 45°30'N, central meridian 96°00'W, rotated -8.5°, datum NAD 27

Figure 2. Mean annual precipitation for South Carolina, 1961–90.

increase in width and extent with decreasing gradients in the valley bottoms owing to the delivery of alluvial sediments (U.S. Department of Agriculture, 2004).

Approximately 35 percent of the State's land area is in the Piedmont Physiographic Province where the land-surface elevations range from approximately 500 to 600 ft above NGVD 29 near the Fall Line between the Coastal Plain and Piedmont Provinces to 1,000 ft above NGVD 29 near the Blue Ridge Province. Rolling hills, elongated ridges, and moderately deep to shallow valleys are typical land forms in the South Carolina Piedmont. The drainage pattern is well developed and dendritic in most areas. The Piedmont is underlain by several complex sequences of crystalline, micaceous rocks and Carolina slates. Areas underlain by Carolina slate have surficial soil of silty loam with silty-clay loam in the subsurface. The warm, humid climate contributes to the deep weathering and severe erosion of the saprolite substrate. Soil surfaces generally are thin. Past agricultural practices have left parts of the area with little or no topsoil and active and inactive gullies (U.S. Department of Agriculture, 2004). Mean annual precipitation in the province ranges from 45 to 50 in. (South Carolina Department of Natural Resources, 2005a; fig. 2). Streamflow data from USGS gaging stations indicate that the mean annual runoff was 17.09 in. at gaging station 02160700, Enoree River at Whitmire, S.C., for water years 1974–2003 (Cooney and others, 2004); 11.25 in. at gaging station 02153780, Clarks Fork Creek near Smyrna, S.C., for water years 1981–2002 (Cooney and others, 2003); and 12.21 in. at gaging station 02166970, Ninety Six Creek near Ninety Six, S.C., for water years 1981–2001 (Cooney and others, 2002; fig. 2).

Forests account for 69 percent of the Piedmont's land cover. Pastures and row crops cover 18 percent of the region (9 percent each) and another 5 percent is composed

of residential and commercial developments. Open water covers 3 percent of the Piedmont, and barren areas cover an additional 3 percent. Recreational and urban grasses compose 1 percent of the area with wetlands covering the remaining 1 percent (U.S. Geological Survey, 1999). Primary vegetation is loblolly pine with some shortleaf and Virginia pine. Secondary vegetation includes red oak, white oak, hickory, sweetgum, yellow poplar, water oak, willow oak, river birch, sycamore, cottonwood, elm, ash, and red maple. Widespread, severe erosion during the late 1800s and early 1900s caused many valleys to fill with sediment (Trimble, 1974). As a result, sediment transport occurs in many areas as stream adjustments occur, including entrenchments into gullies and widening streambanks from erosion and bank failure (Rosgen, 1996; U.S. Department of Agriculture, 2004).

About 20 percent of South Carolina is in the upper Coastal Plain. This area ranges from 20 to 50 miles (mi) in width and is located just east of the Piedmont Province, more or less paralleling the Atlantic coastline. The general topography consists of rounded hills with gradual slopes. Land-surface elevations in the province range from approximately 500 to 600 ft above NGVD 29 along the Fall Line to less than 200 ft above NGVD 29 near the lower Coastal Plain boundary. In this region, however, hills have elevations exceeding 700 ft above NGVD 29. The geology of this area consists primarily of sedimentary strata composed of layers of sand, silt, clay, and gravel underlain by igneous and metamorphic rocks (Cooke, 1936). Stream slopes generally range from 5 to 20 feet per mile (ft/mi; Guimaraes and Bohman, 1992), and many of the large drainage areas are bordered by various types of wetlands or swamps with extensive flood plains. In addition, bedrock crops out in the streambeds of the upper Coastal Plain near the Fall Line. Mean annual precipitation in the province ranges from 42 to 47 in. (South Carolina Department of Natural Resources, 2005a; fig. 2). For the period 1939–2003, the mean annual runoff was 15.22 in. at USGS gaging station 02173500, North Fork Edisto River at Orangeburg, S.C. In addition, the mean annual runoff was 13.80 in. at gaging station 02135300, Scape Ore Swamp near Bishopville, S.C., for water years 1968–2003 and 19.32 in. at gaging station 02130900, Black Creek near McBee, S.C., for water years 1956–2003 (Cooney and others, 2004; fig. 2).

Forests cover 48 percent of the upper Coastal Plain, and row crops and wetlands cover 25 percent and 14 percent, respectively. Quarries and other barren lands account for 5 percent of the region's land cover, and an additional 3 percent is covered by pasture. Commercial and residential developments make up 3 percent of the land area, and open water covers the remaining 1 percent (U.S. Geological Survey, 1999). Soil moisture and nutrient availability in the sandy soils are challenging conditions for farming and certain types of land-management options. Areas with sandy soils, sloping terrain, and concentrated flow can be subject to severe erosion and(or) sedimentation (W.F. Hansen, U.S. Forest Service, written commun., March 2005).

About 43 percent of South Carolina is in the lower Coastal Plain. Land-surface elevations in this region range from 0 ft above NGVD 29 at the Atlantic Ocean to nearly 200 ft above NGVD 29 near the boundary with the upper Coastal Plain. Precipitation amounts across the Coastal Plain average 50 to 52 in. annually (South Carolina Department of Natural Resources, 2005a). At USGS gaging station 02176500, Coosawhatchie River near Hampton, S.C., mean annual runoff was 11.78 in. for water years 1951–2003; 10.47 in. at gaging station 02136000, Black River near Kingstree, S.C.; and 15.46 in. at gaging station 02110500, Waccamaw River near Longs, S.C., for water years 1950–2003 (Cooney and others, 2004; fig. 2).

Although forests compose most of the land cover in the lower Coastal Plain (41 percent), there are more wetlands in this region (26 percent) than in any other area of the State. Row crops cover an additional 19 percent of the province whereas pastures, developed areas, and barren lands each account for 3 percent of the land cover (U.S. Geological Survey, 1999).

The lower Coastal Plain is underlain by consolidated and unconsolidated sedimentary strata of silt, sand, clay, gravel, and limestone overlain by permeable sandy soils (Zalants, 1991). This area of South Carolina has been subjected to repeated cycles of sea-level rise and fall, which have resulted in a complex three-dimensional mosaic of fluvial and marine sediments of Pleistocene age (Cooke, 1936). The primary sources of sediment are the deposition of terrestrial sediments carried by rivers and the deposition of reworked marine sediments transported during periods of flooding (McIntyre and others, 1991; Soller and Mills, 1991; South Carolina Department of Natural Resources, 2005b). Riverine features commonly have been bounded by ocean deposits and modified over time by rainfall-runoff sequences, tropical storms, floods, and tidal actions. A series of sandy barriers and beaches deposited through geologic time captured flow and formed channel networks, ranging from poorly defined, in relatively flat or depressional landscapes, to well-defined channels with more gradient, such that a break in the barrier allows flow to descend to the next controlling surface feature (McCartan and others, 1984; Owens, 1989). Carolina Bays and other types of isolated wetlands also have developed locally in the relatively flat landscape and include a variety of soil types and moisture levels between uplands and bottomlands.

Upland forest species in the lower Coastal Plain include longleaf pine, turkey oak, and southern red oak. Bottomlands range from seasonally saturated to permanently flooded conditions and contribute substantially to habitat diversity that includes various types of aquatic plants, sedges, vines, shrubs and bottomland hardwoods, such as tupelo gum, bald cypress, black gum, red maple, pond pine, swamp chestnut oak, cherrybark oak, nuttail oak, laurel oak, willow oak, black willow, sweet bay, river birch, and sycamore (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; U.S. Department of Agriculture, 1996).

Streamflow patterns are tidally influenced near the coast, creating various salinity patterns in the estuarine system. Most streams in the lower Coastal Plain have wetlands within their flood plains, including swamps and marshes (Guimaraes and Bohman, 1992). Because of the low gradients, many major streams have high sinuosity, and braided or anastomosed belts meander across broad valleys (Rosgen, 1996). The excessively flat landscapes in this area of the State have diffuse drainage networks spread over extensive wetlands with flow patterns and channels that adjust with time to trees felled by severe storms. Upland drainages can be characterized by relatively narrow depressions that remain saturated and may or may not connect to surface drainage networks. The Atlantic Intracoastal Waterway and major developments, such as dams and water diversions, have atypical flow conditions and drainage-area features that must be evaluated on a case-by-case basis against both the HU standards and unique conditions that may require adjustment.

Development of a 10- and 12-Digit Hydrologic Unit Code Numbering System for South Carolina

During 2003–04, the 11- and 14-digit HUC watersheds and subwatersheds in South Carolina were converted into 10- and 12-digit HUC watersheds and subwatersheds (table 1, p. 14). This conversion followed the intent summarized in the required standards and guidelines presented by the Federal Geographic Data Committee (2002). The 12-digit code identifies each of the six levels of classification within six 2-digit fields. An example is given using HUC 030501080301 (see also fig. 3):

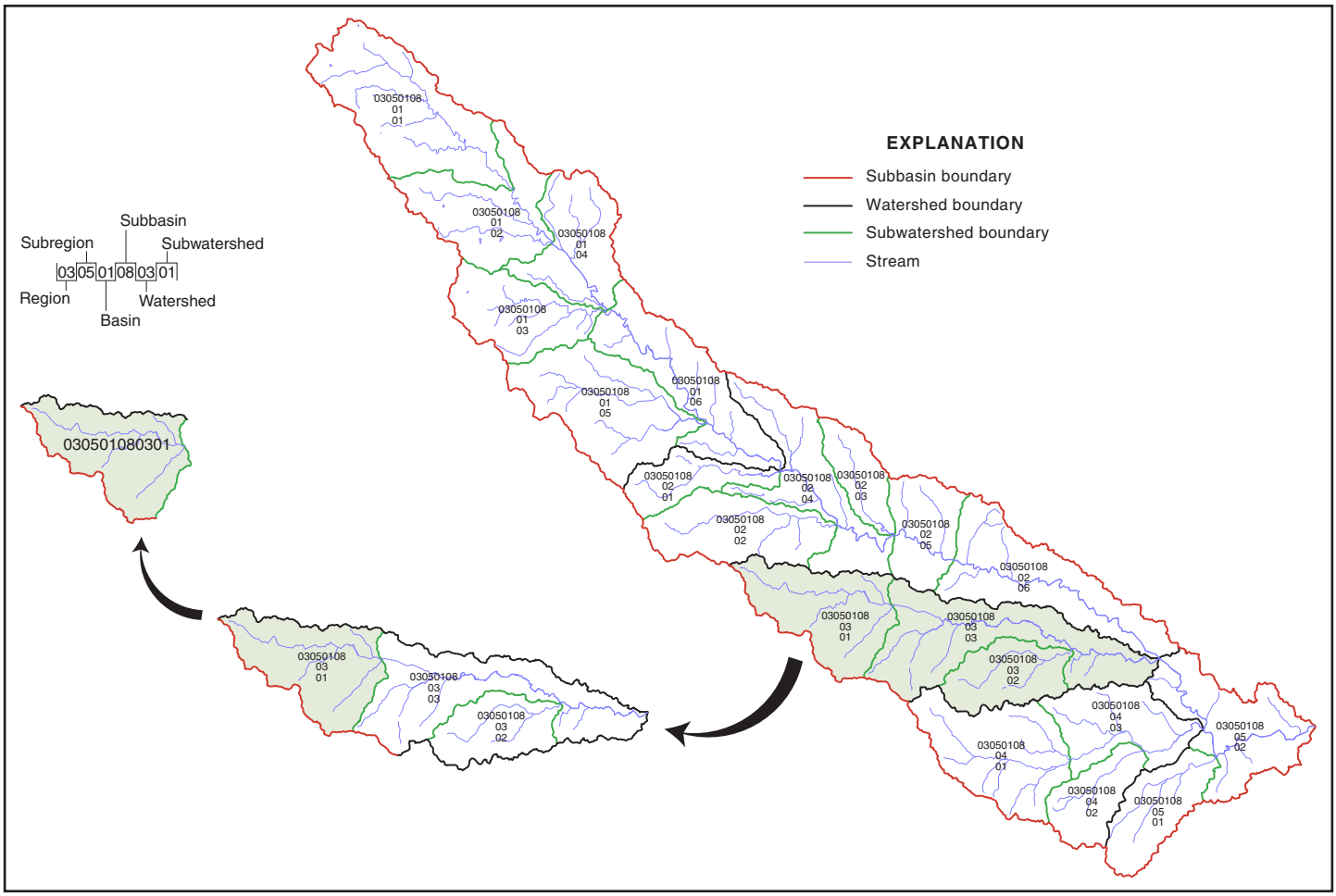


Figure 3. Example of 12-digit numbering system used for hydrologic unit 030501080301, Upper Duncan Creek subwatershed, South Carolina.

03 — Region[6] – South Atlantic Gulf

0305 — Subregion[6] – Edisto-Santee, 23,600-mi^2 drainage area

030501 — Basin[6] – Santee, 15,300-mi^2 drainage area

03050108 — Subbasin[6] – Enoree, 731-mi^2 drainage area

0305010803 — Watershed[7] – Duncan Creek, 120-mi^2 drainage area

030501080301 — Subwatershed[7] – Upper Duncan Creek, 40.6-mi^2 drainage area

Double zeros (00) in the 2-digit basin unit indicate that the basin unit and the subregion are the same. Likewise, if the subbasin unit is 00, it is the same as the basin unit. A hierarchical breakdown of the number of assigned HUCs for South Carolina is shown in figure 4.

[6]From Seaber and others (1987).

[7]Table 1 of this report.

Methods and Approach

The Working Group used the existing 11- and 14-digit HU dataset, 1:24,000-scale 7.5-minute topographic maps, 1:24,000-scale digital raster graphics (DRG), and bathymetric data to delineate the watersheds and subwatersheds and to assign 10- and 12-digit codes to these watersheds and subwatersheds, respectively. In some relatively flat and poorly defined areas, such as the Congaree National Park (fig. 1), knowledge of river mechanics and geomorphological principles were used to connect contributing hydrologic units into larger units. Of the 971 subwatersheds in South Carolina, 868 range in size from 10,000 to 40,000 acres (15.6 to 62.5 mi^2), 77 subwatersheds range in size from 3,000 to 10,000 acres (4.69 to 15.6 mi^2), and 26 subwatersheds are larger than 40,000 acres (62.5 mi^2).

In addition to converting the existing 11- and 14-digit HUs to the 10- and 12-digit format, the Working Group also reviewed the 8-digit subbasins throughout the State. This review resulted in substantial changes to the 8-digit subbasins in the South Carolina Coastal Plain, including the creation of four new subbasins (03040208, 03050209, 03050210, and 03060110) and the renumbering of existing subbasins (pl. 1; table 2). The new subbasins were delineated to (1) provide

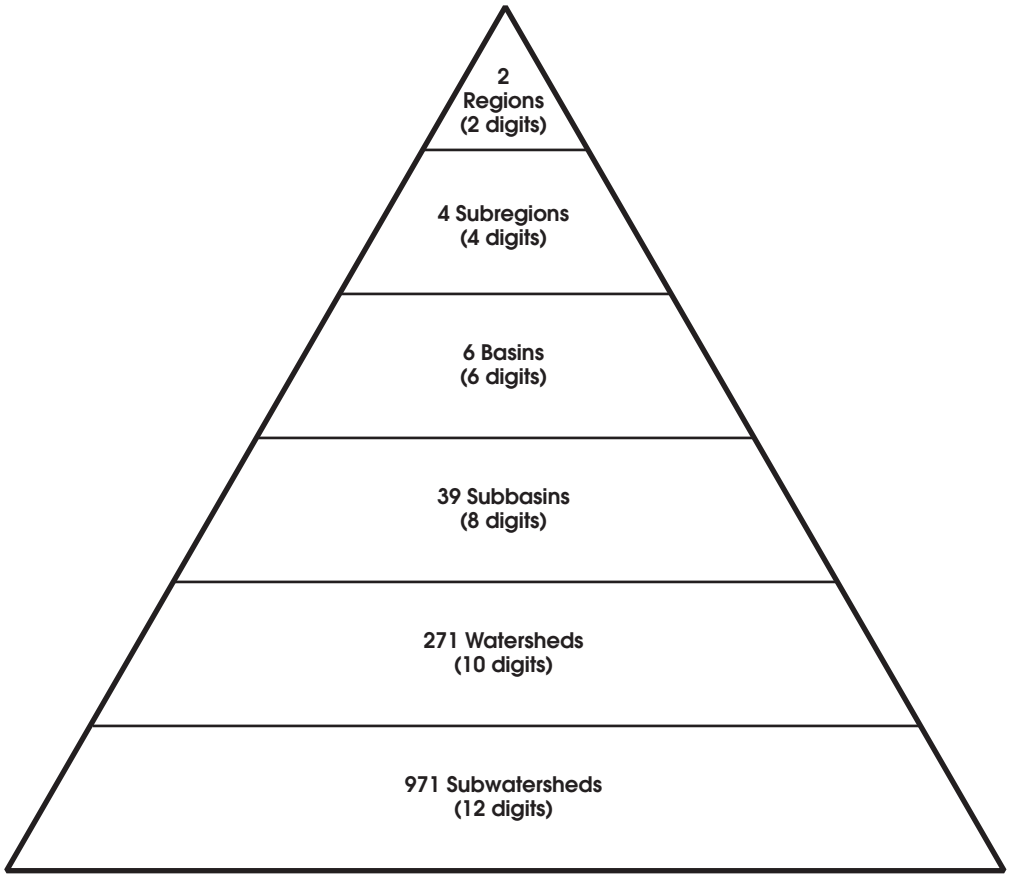


Figure 4. Heirarchy of hydrologic units in South Carolina.

Table 2. Original 8-digit hydrologic unit codes from Seaber and others (1987) and the corresponding revised 8-digit hydrologic unit codes from this study.

[Subbasin names and 8-digit HUCs in **bold** type denote codes and names that were changed in this study; HUC, hydrologic unit code]

Original subbasin name (Seaber and others, 1987)	Original 8-digit HUC (Seaber and others, 1987)	Revised 8-digit HUC (this study)	Revised subbasin name (this study)
Upper Pee Dee	03040104	03040104	Upper Pee Dee
Rocky	03040105	03040105	Rocky
Lower Pee Dee	03040201	**03040201**	**Middle Pee Dee**
		03040207	**Lower Pee Dee**
Lynches	03040202	03040202	Lynches
Lumber	03040203	03040203	Lumber
Little Pee Dee	03040204	03040204	Little Pee Dee
Black	03040205	03040205	Black
Waccamaw	03040206	03040206	Waccamaw
Carolina Coastal-Sampit	03040207	**03040207**	**Lower Pee Dee**
		03040208	**Coastal Carolina**
Upper Catawba	03050101	03050101	Upper Catawba
Lower Catawba	03050103	03050103	Lower Catawba
Wateree	03050104	03050104	Wateree
Upper Broad	03050105	03050105	Upper Broad
Lower Broad	03050106	03050106	Lower Broad
Tyger	03050107	03050107	Tyger
Enoree	03050108	03050108	Enoree
Saluda	03050109	03050109	Saluda
Congaree	03050110	03050110	Congaree
Lake Marion	03050111	03050111	Lake Marion
Santee	03050112	03050112	Santee
Cooper	03050201	03050201	Cooper
South Carolina Coastal	03050202	**03050201**	**Cooper**
		03050202	**Stono**
		03050209	**Bulls Bay**
North Fork Edisto	03050203	03050203	North Fork Edisto
South Fork Edisto	03050204	03050204	South Fork Edisto
Edisto	03050205	**03050205**	**Four Hole Swamp**
Four Hole Swamp	03050206	**03050206**	**Edisto**
Salkehatchie	03050207	**03050207**	**Salkehatchie/Combahee**
Broad-St. Helena	03050208	**03050207**	**Salkehatchie/Combahee**
		03050208	**Broad**
		03050210	**St. Helena Island**
		03060110	**Calibogue Sound/Wright River**
Seneca	03060101	03060101	Seneca
Tugaloo	03060102	03060102	Tugaloo
Upper Savannah	03060103	03060103	Upper Savannah
Middle Savannah	03060106	03060106	Middle Savannah
Stevens	03060107	03060107	Stevens
Lower Savannah	03060109	03060109	Lower Savannah
Upper French Broad	06010105	06010105	Upper French Broad

single outlets to the Atlantic Ocean for major river drainages (such as the Pee Dee, Edisto, and Combahee), or (2) separate the coastal frontal and barrier island drainages, which may have multiple outlets to the Atlantic Ocean, into unique subbasins. The numbering of these 8-digit subbasins followed the same rationale that was used to assign the 10- and 12-digit HUC numbers.

Review of bathymetric data indicated that one change was needed at the 4-digit (subregion) level. The Calibogue Sound and New River/Wright River drainages are now included in the Savannah subregion (0306). The 8-digit HUCs from Seaber and others (1987) and the revised 8-digit HUCs are listed in table 2.

To develop a geographic information system (GIS) dataset of 8-, 10-, and 12-digit basins, the following procedures were used:

1. The delineations used in Bower and others (1999) were checked for accuracy by the Working Group. Digital and paper 1:24,000-scale topographic maps were used as appropriate. All modifications were made following discussion and agreement by the Working Group.

2. An ARC/INFO® coverage of the modified HU boundaries was sent to the USGS Utah Water Science Center where the watersheds and subwatersheds were assigned 10- and 12-digit HU codes, respectively, and the attribute tables were populated. The upstreammost watershed in a subbasin was assigned a code of 01, and subsequent watersheds were numbered in ascending order (01, 02, 03, and so on). The same numbering convention was used to assign codes to the subwatersheds (figs. 3, 5). Referring to figure 5, the numbering sequence begins at the uppermost subwatershed (01). The

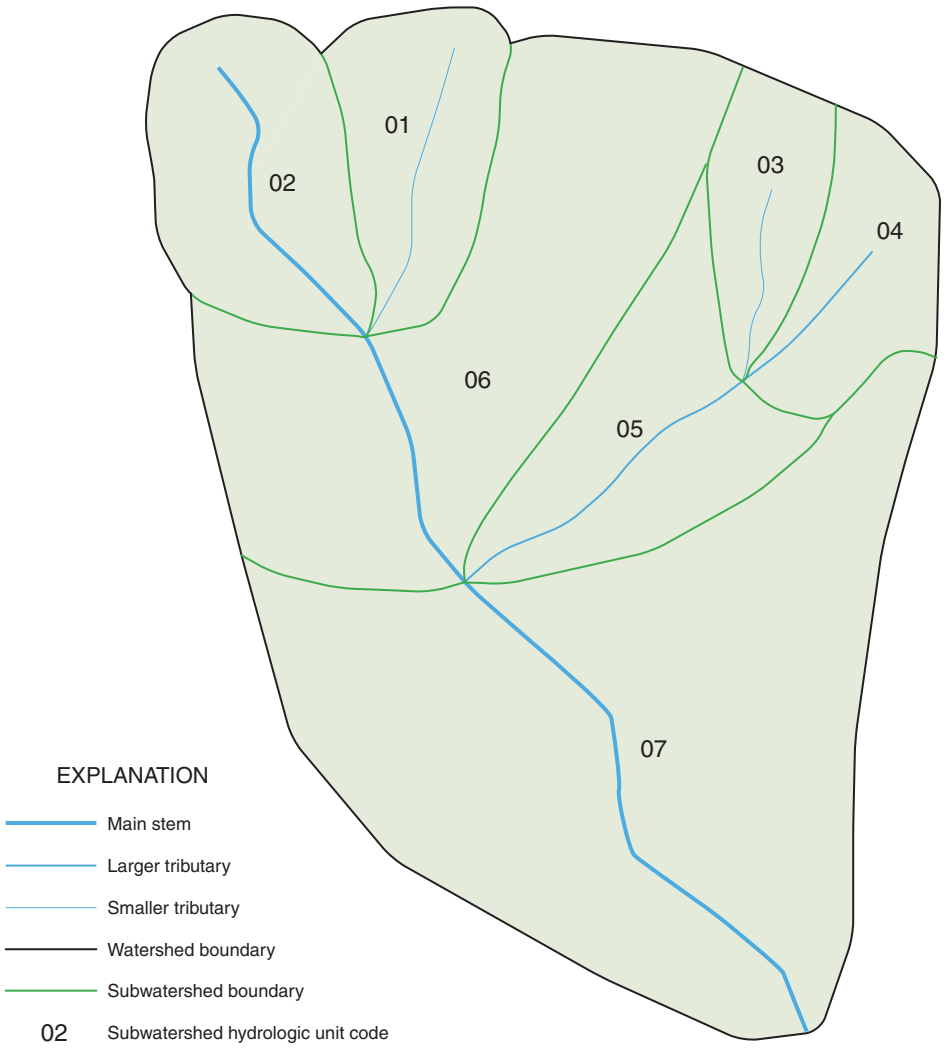


Figure 5. Example of numbering convention used to assign hydrologic unit codes (HUCs) to subwatersheds.

tributary subwatershed is assigned number 01 because it flows into the main stem upstream from the main stem subwatershed boundary; therefore, the main stem subwatershed is assigned number 02. The same rationale is applied to the next delineated tributary. Because the tributary subwatersheds (03, 04, 05) flow into the main stem upstream from the next main stem subwatershed boundary, they are numbered before the main stem subwatershed (06). The subwatershed (07) that contains the watershed outlet receives the highest number. The numbering sequence shown in figure 5 was carefully reviewed and evaluated and best matches the standards provided (K. Leigliter, U.S. Department of Agriculture, Natural Resources Conservation Service, oral commun., February 2004). When HU boundaries begin in or include areas in adjacent states, numbering and line matching coordination was used to create a seamless network that was consistent across state boundaries.

3. The updated dataset was returned to the USGS South Carolina Water Science Center where USGS personnel assigned hydrologic names to each watershed and subwatershed, and the Working Group performed a quality-assurance review.

The ARC/INFO coverage of the HUC map (pl. 1) includes a polygon attribute table that contains the following 15 attributes for each polygon (subwatershed):

HUC_8	8-digit HUC, which includes the region (digits 1 and 2), subregion (digits 3 and 4), basin (digits 5 and 6), and subbasin (digits 7 and 8) unit codes for the selected polygon.
HUC_10	10-digit HUC, which includes the region, subregion, basin, and subbasin unit codes (digits 1 through 8) plus the watershed unit code (digits 9 and 10) for the selected polygon.
HUC_12	12-digit HUC, which includes the region, subregion, basin, subbasin, and watershed unit codes (digits 1 through 10) plus the subwatershed unit code (digits 11 and 12) for the selected polygon.
ACRES	Drainage area of the selected polygon, in acres.
STATES	2-letter U.S. Postal Service code for the state(s) in which the subwatershed lies.
NCONTRB_A	Noncontributing areas, such as those dominated by karst geology, that do not flow toward the outlet of any HU, in acres.
HU_10_DS	10-digit code of the adjacent downstream watershed that receives most of the flow from the watershed in which the subwatershed lies.
HU_10_NAME	Name of the dominant hydrologic feature draining the watershed in which the subwatershed lies.
HU_10_MOD	2-letter abbreviation for overland-flow modifications that alter the location of the boundary for a 10-digit watershed. Listed in descending order of importance, the following abbreviations are used: CD for channel diversion, ID for irrigation ditch, IT for interbasin transfer, TF for transportation feature, DM for dam, RS for manmade reservoir, LE for levee, GC for general canal, DR for drain, and NM for no modifications.
HU_10_TYPE	1-letter abbreviation for the HU type that most closely identifies the 10-digit watershed. The following abbreviations are used: S for standard HUs that typically have a single outlet point, F for frontal HUs that normally are found along coastlines and contain multiple outlet points, W for water HUs that are predominantly water with some adjacent land areas, and I for HUs that include one or more islands and adjacent water out to the toe of the shore face.
HU_12_DS	12-digit code of the adjacent downstream subwatershed that receives most of the flow from the subwatershed.
HU_12_NAME	Name of the dominant hydrologic feature draining the subwatershed.
HU_12_MOD	2-letter abbreviation for overland-flow modifications that alter the location of the boundary for a 12-digit subwatershed. Listed in descending order of importance, the following abbreviations are used: CD for channel diversion, ID for irrigation ditch, IT for interbasin transfer, TF for transportation feature, DM for dam, RS for manmade reservoir, LE for levee, GC for general canal, DR for drain, and NM for no modifications.
HU_12_TYPE	1-letter abbreviation for the HU type that most closely identifies the 12-digit subwatershed. The following abbreviations are used: S for standard HUs that typically have a single outlet point, F for frontal HUs that normally are found along coastlines and contain multiple outlet points, I for HUs that contain one or more islands and adjacent water out to the toe of the shore face, W for water HUs that are predominantly water with some adjacent land areas, U for HUs that cannot be defined or do not fit into one of the types listed above, and M for HUs that are located completely in open water.

The ARC/INFO coverage of the HUC map (pl. 1) also includes an ARC attribute table that contains the following three attributes for each line segment of the HU boundaries:

HU_LEVEL	1-digit numerical code for the highest HU level boundary represented by the line segment. The following codes are used: 1 for region or 1st-level boundary, 2 for subregion or 2nd-level boundary, 3 for basin or 3rd-level boundary, 4 for subbasin or 4th-level boundary, 5 for watershed or 5th-level boundary, and 6 for subwatershed or 6th-level boundary.
LINESOURCE	Alphanumeric code used to identify the digital spatial dataset or paper map that was used to delineate the HU boundary represented by the line segment. The following codes are used: TOPO24 for boundaries delineated from paper 1:24,000-scale topographic maps, and DRG24 for boundaries delineated from 1:24,000-scale digital raster graphics.
META_ID	Alphanumeric code used to identify the metadata file that applies to the line segment. Because there is only one metadata file for the South Carolina dataset, all lines are coded with SC01.

Quality Assurance and Quality Control

Adequate quality-assurance and quality-control procedures were implemented to ensure that the data are of high quality. Quality-assurance procedures are critical when subjective judgment, such as delineating drainage basins in coastal areas, is used. The Working Group met with representatives of the Federal Geographic Data Committee to discuss the guidelines and to ensure that qualitative judgments were made from similar perspectives. The procedures used to delineate the 10- and 12-digit watersheds and subwatersheds consistently followed the guidelines proposed by the Federal Geographic Data Committee (2002). Group reviews were made to ensure that delineations were determined consistently and that the basins were digitized and attributed correctly. As a final check, the dataset was reviewed and certified by the NRCS National Cartography and Geospatial Center in Fort Worth, Texas.

Summary

The U.S. Department of Agriculture, Natural Resources Conservation Service; the South Carolina Department of Health and Environmental Control; the U.S. Geological Survey; and the U.S. Forest Service worked cooperatively to develop a 10- and 12-digit hydrologic unit code numbering system for South Carolina. The original 8-digit definition (2 digits each for the hydrologic region, subregion, basin, and subbasin, respectively) was enhanced by adding two 2-digit units to define watershed and subwatershed—10 and 12 digits, respectively. The new delineations followed guidelines proposed by the Federal Geographic Data Committee.

The multiagency Working Group modified the existing 14-digit hydrologic unit dataset, previously compiled by the U.S. Geological Survey, to define 8-, 10-, and 12-digit hydrologic unit codes for South Carolina and for parts of subwatersheds that extend into North Carolina and Georgia. During this study, 271 watersheds and 971 subwatersheds were delineated. Of the 971 subwatersheds, 945 range in size from 3,000 to 40,000 acres (4.69 to 62.5 square miles), and 26 subwatersheds are larger than 40,000 acres. The 8-digit subbasins also were reviewed, which resulted in the creation of four new subbasins along the South Carolina coast and the renumbering of existing subbasins as appropriate. One change was made at the 4-digit (subregion) level.

The updated 8-, 10-, and 12-digit hydrologic unit code boundaries are shown on the plate accompanying this report. In addition, the hydrologic unit codes, boundary, and drainage-area data are stored in a geographic information system dataset. The hydrologic unit map and dataset depict basic hydrologic and political areal planning units of South Carolina, thus providing a standard geographical framework for water-resource and selected land-resource planning and management.

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Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina.

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040104	02	01	14,864	23.23	-80° 18' 39"	34° 52' 09"
03040105	06	01	21,571	33.70	-80° 24' 33"	34° 52' 07"
03040201	03	05	29,134	45.52	-79° 55' 56"	34° 47' 35"
03040201	03	06	10,198	15.93	-79° 54' 03"	34° 44' 57"
03040201	04	01	20,110	31.42	-80° 10' 30"	34° 48' 28"
03040201	04	02	26,752	41.80	-80° 10' 29"	34° 48' 28"
03040201	04	03	23,006	35.95	-80° 06' 08"	34° 45' 15"
03040201	04	04	14,219	22.22	-80° 06' 06"	34° 45' 14"
03040201	04	05	7,931	12.39	-80° 04' 00"	34° 44' 16"
03040201	04	06	26,042	40.69	-80° 03' 02"	34° 39' 38"
03040201	04	07	20,322	31.75	-79° 59' 27"	34° 40' 45"
03040201	04	08	27,924	43.63	-79° 56' 55"	34° 40' 16"
03040201	04	09	12,407	19.39	-80° 02' 16"	34° 34' 06"
03040201	04	10	28,700	44.84	-79° 53' 04"	34° 39' 27"
03040201	04	11	14,067	21.98	-79° 51' 20"	34° 40' 23"
03040201	05	01	20,565	32.13	-79° 54' 38"	34° 44' 56"
03040201	05	02	19,828	30.98	-79° 53' 32"	34° 44' 33"
03040201	05	03	17,762	27.75	-79° 50' 38"	34° 40' 15"
03040201	05	04	17,274	26.99	-79° 50' 36"	34° 40' 12"
03040201	05	05	18,816	29.40	-79° 46' 37"	34° 36' 53"
03040201	05	06	36,917	57.68	-79° 40' 54"	34° 37' 50"
03040201	05	07	12,670	19.80	-79° 48' 34"	34° 34' 52"
03040201	05	08	10,695	16.71	-79° 58' 29"	34° 29' 58"
03040201	05	09	33,843	52.88	-79° 49' 49"	34° 31' 56"
03040201	05	10	37,465	58.54	-79° 49' 57"	34° 31' 32"
03040201	06	01	10,253	16.02	-80° 13' 18"	34° 40' 08"
03040201	06	02	20,503	32.04	-80° 13' 22"	34° 40' 07"
03040201	06	03	23,685	37.01	-80° 10' 22"	34° 32' 25"
03040201	06	04	11,505	17.98	-80° 10' 23"	34° 32' 24"
03040201	06	05	6,465	10.10	-80° 08' 43"	34° 27' 57"
03040201	06	06	36,926	57.70	-80° 09' 06"	34° 24' 04"
03040201	07	01	28,028	43.79	-80° 04' 05"	34° 23' 10"
03040201	07	02	11,836	18.49	-79° 58' 51"	34° 24' 39"
03040201	07	03	7,801	12.19	-79° 56' 08"	34° 24' 16"
03040201	07	04	26,443	41.32	-79° 54' 14"	34° 23' 12"
03040201	07	05	12,051	18.83	-79° 52' 37"	34° 22' 35"
03040201	07	06	11,759	18.37	-79° 51' 43"	34° 18' 47"
03040201	07	07	24,021	37.53	-79° 49' 40"	34° 17' 25"
03040201	07	08	29,651	46.33	-79° 45' 00"	34° 14' 43"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040201	07	09	19,858	31.03	-79° 45' 00"	34° 14' 44"
03040201	07	10	15,520	24.25	-79° 37' 06"	34° 17' 48"
03040201	08	01	15,329	23.95	-79° 44' 24"	34° 31' 08"
03040201	08	02	20,633	32.24	-79° 45' 50"	34° 31' 06"
03040201	08	03	22,734	35.52	-79° 37' 30"	34° 32' 38"
03040201	08	04	21,616	33.78	-79° 37' 29"	34° 32' 38"
03040201	08	05	19,965	31.20	-79° 43' 33"	34° 25' 04"
03040201	08	06	23,082	36.07	-79° 43' 31"	34° 25' 02"
03040201	08	07	23,760	37.13	-79° 41' 04"	34° 23' 29"
03040201	08	08	30,867	48.23	-79° 41' 35"	34° 21' 25"
03040201	08	09	18,771	29.33	-79° 39' 32"	34° 18' 19"
03040201	08	10	17,260	26.97	-79° 37' 05"	34° 17' 51"
03040201	09	01	26,806	41.88	-79° 43' 37"	34° 09' 21"
03040201	09	02	36,816	57.53	-79° 43' 34"	34° 09' 24"
03040201	09	03	12,122	18.94	-79° 38' 24"	34° 08' 20"
03040201	09	04	30,331	47.39	-79° 34' 36"	34° 06' 35"
03040201	09	05	31,038	48.50	-79° 32' 13"	34° 04' 36"
03040201	10	01	34,671	54.17	-79° 32' 56"	34° 12' 07"
03040201	10	02	34,843	54.44	-79° 32' 55"	34° 12' 15"
03040201	10	03	14,831	23.17	-79° 32' 11"	34° 04' 34"
03040201	11	01	18,371	28.70	-79° 26' 31"	34° 17' 04"
03040201	11	02	23,349	36.48	-79° 24' 58"	34° 06' 57"
03040201	11	03	29,277	45.75	-79° 25' 06"	34° 06' 57"
03040201	11	04	12,049	18.83	-79° 28' 34"	34° 07' 35"
03040201	11	05	28,328	44.26	-79° 28' 52"	33° 58' 00"
03040201	12	01	18,327	28.64	-79° 28' 54"	33° 57' 59"
03040201	12	02	39,531	61.77	-79° 21' 57"	33° 50' 31"
03040202	01	01	14,953	23.36	-80° 30' 31"	34° 45' 05"
03040202	01	02	32,655	51.02	-80° 30' 32"	34° 45' 02"
03040202	01	03	15,708	24.54	-80° 30' 08"	34° 44' 17"
03040202	01	04	31,022	48.47	-80° 26' 00"	34° 38' 19"
03040202	01	05	16,199	25.31	-80° 25' 59"	34° 38' 20"
03040202	02	01	26,267	41.04	-80° 33' 31"	34° 34' 10"
03040202	02	02	20,194	31.55	-80° 31' 39"	34° 30' 15"
03040202	02	03	14,154	22.12	-80° 31' 38"	34° 30' 15"
03040202	02	04	26,321	41.13	-80° 27' 12"	34° 25' 42"
03040202	02	05	8,511	13.30	-80° 25' 43"	34° 24' 43"
03040202	02	06	31,389	49.05	-80° 17' 24"	34° 22' 03"
03040202	03	01	26,768	41.83	-80° 24' 45"	34° 37' 23"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040202	03	02	15,285	23.88	-80° 22' 55"	34° 34' 49"
03040202	03	03	22,635	35.37	-80° 21' 50"	34° 32' 19"
03040202	03	04	12,936	20.21	-80° 21' 31"	34° 32' 11"
03040202	03	05	12,449	19.45	-80° 21' 32"	34° 32' 10"
03040202	03	06	19,185	29.98	-80° 19' 46"	34° 29' 07"
03040202	03	07	36,025	56.29	-80° 17' 23"	34° 22' 03"
03040202	04	01	11,242	17.57	-80° 03' 37"	34° 12' 16"
03040202	04	02	28,382	44.35	-80° 03' 37"	34° 12' 15"
03040202	04	03	11,105	17.35	-80° 01' 21"	34° 10' 14"
03040202	04	04	20,272	31.68	-79° 56' 45"	34° 04' 23"
03040202	04	05	14,782	23.10	-79° 56' 37"	34° 04' 34"
03040202	04	06	34,830	54.42	-79° 50' 31"	34° 01' 26"
03040202	04	07	13,204	20.63	-79° 50' 31"	34° 01' 23"
03040202	04	08	8,745	13.66	-79° 47' 47"	34° 02' 40"
03040202	05	01	10,835	16.93	-80° 14' 25"	34° 18' 51"
03040202	05	02	13,437	21.00	-80° 14' 24"	34° 18' 51"
03040202	05	03	31,690	49.52	-80° 11' 38"	34° 11' 18"
03040202	05	04	39,915	62.37	-80° 00' 09"	34° 02' 58"
03040202	05	05	30,959	48.37	-79° 47' 44"	34° 02' 39"
03040202	06	01	19,847	31.01	-79° 45' 31"	33° 53' 05"
03040202	06	02	35,760	55.88	-79° 39' 38"	33° 48' 46"
03040202	06	03	25,970	40.58	-79° 39' 16"	33° 48' 48"
03040202	06	04	23,483	36.69	-79° 27' 33"	33° 50' 05"
03040202	07	01	31,352	48.99	-79° 40' 55"	33° 58' 31"
03040202	07	02	23,905	37.35	-79° 39' 25"	33° 55' 12"
03040202	07	03	38,154	59.62	-79° 32' 00"	33° 51' 26"
03040202	07	04	30,981	48.41	-79° 31' 59"	33° 51' 25"
03040202	07	05	22,381	34.97	-79° 21' 58"	33° 50' 29"
03040203	13	01	10,264	16.04	-79° 14' 18"	34° 23' 19"
03040203	13	02	33,289	52.01	-79° 07' 00"	34° 19' 37"
03040203	13	03	9,695	15.15	-79° 07' 43"	34° 15' 12"
03040203	14	01	27,672	43.24	-79° 02' 30"	34° 16' 33"
03040203	14	02	6,658	10.40	-79° 03' 49"	34° 15' 16"
03040203	14	03	11,076	17.31	-79° 07' 50"	34° 13' 22"
03040203	14	04	21,197	33.12	-79° 09' 56"	34° 11' 44"
03040204	01	05	14,497	22.65	-79° 30' 34"	34° 37' 14"
03040204	01	06	28,923	45.19	-79° 30' 19"	34° 36' 52"
03040204	01	07	6,072	9.49	-79° 25' 51"	34° 35' 52"
03040204	02	03	19,027	29.73	-79° 25' 55"	34° 35' 52"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040204	03	05	30,871	48.24	-79° 23' 40"	34° 31' 53"
03040204	04	01	34,605	54.07	-79° 26' 12"	34° 21' 59"
03040204	04	02	20,284	31.69	-79° 26' 14"	34° 21' 56"
03040204	04	03	14,835	23.18	-79° 20' 21"	34° 18' 16"
03040204	04	04	27,775	43.40	-79° 12' 52"	34° 15' 21"
03040204	05	01	11,047	17.26	-79° 23' 41"	34° 31' 52"
03040204	05	02	21,026	32.85	-79° 23' 41"	34° 29' 31"
03040204	05	03	20,484	32.01	-79° 21' 24"	34° 27' 48"
03040204	05	04	16,194	25.30	-79° 20' 25"	34° 24' 18"
03040204	05	05	9,962	15.57	-79° 21' 16"	34° 22' 18"
03040204	05	06	29,564	46.19	-79° 14' 28"	34° 18' 22"
03040204	05	07	10,934	17.08	-79° 12' 51"	34° 15' 20"
03040204	05	08	13,548	21.17	-79° 09' 57"	34° 11' 45"
03040204	06	01	38,310	59.86	-79° 01' 17"	34° 06' 05"
03040204	06	02	21,585	33.73	-79° 01' 37"	34° 05' 34"
03040204	06	03	21,812	34.08	-79° 06' 00"	34° 04' 59"
03040204	06	04	32,570	50.89	-79° 14' 34"	34° 04' 04"
03040204	07	01	28,598	44.68	-79° 15' 33"	33° 55' 12"
03040204	07	02	16,001	25.00	-79° 15' 51"	33° 53' 37"
03040204	08	01	19,523	30.50	-79° 18' 34"	34° 00' 31"
03040204	08	02	10,339	16.15	-79° 09' 24"	34° 10' 22"
03040204	08	03	34,562	54.00	-79° 13' 15"	34° 06' 28"
03040204	08	04	16,126	25.20	-79° 14' 52"	34° 03' 26"
03040204	08	05	22,679	35.44	-79° 19' 26"	34° 00' 07"
03040204	08	06	8,520	13.31	-79° 14' 40"	33° 52' 47"
03040204	08	07	22,035	34.43	-79° 14' 44"	33° 51' 43"
03040204	08	08	39,602	61.88	-79° 15' 06"	33° 50' 03"
03040204	08	09	22,599	35.31	-79° 13' 49"	33° 45' 43"
03040204	08	10	21,838	34.12	-79° 11' 30"	33° 42' 24"
03040205	01	01	17,493	27.33	-80° 22' 51"	34° 15' 03"
03040205	01	02	11,118	17.37	-80° 22' 48"	34° 15' 04"
03040205	01	03	13,568	21.20	-80° 18' 20"	34° 09' 04"
03040205	01	04	12,365	19.32	-80° 16' 55"	34° 04' 03"
03040205	01	05	27,134	42.40	-80° 16' 54"	34° 04' 02"
03040205	01	06	7,322	11.44	-80° 13' 40"	33° 59' 21"
03040205	01	07	16,016	25.03	-80° 16' 56"	33° 57' 51"
03040205	01	08	39,312	61.43	-80° 14' 27"	33° 56' 25"
03040205	01	09	34,639	54.12	-80° 09' 36"	33° 53' 05"
03040205	02	01	11,549	18.05	-80° 13' 57"	34° 10' 54"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040205	02	02	25,200	39.38	-80° 10' 54"	34° 03' 03"
03040205	02	03	8,452	13.21	-80° 11' 10"	34° 00' 53"
03040205	02	04	9,142	14.28	-80° 10' 16"	33° 54' 42"
03040205	02	05	17,549	27.42	-80° 09' 35"	33° 53' 05"
03040205	03	01	35,762	55.88	-80° 21' 28"	33° 52' 43"
03040205	03	02	17,328	27.08	-80° 23' 03"	33° 52' 34"
03040205	03	03	34,991	54.67	-80° 21' 28"	33° 52' 41"
03040205	04	01	33,826	52.85	-80° 16' 46"	33° 47' 28"
03040205	04	02	10,330	16.14	-80° 24' 38"	33° 44' 33"
03040205	04	03	36,669	57.30	-80° 15' 48"	33° 46' 17"
03040205	04	04	22,046	34.45	-80° 13' 14"	33° 43' 47"
03040205	04	05	20,124	31.44	-80° 11' 33"	33° 41' 57"
03040205	04	06	10,881	17.00	-80° 07' 18"	33° 42' 03"
03040205	04	07	37,791	59.05	-80° 02' 46"	33° 42' 10"
03040205	05	01	27,127	42.39	-80° 02' 50"	33° 56' 01"
03040205	05	02	32,789	51.23	-79° 57' 45"	33° 49' 51"
03040205	05	03	27,502	42.97	-79° 57' 45"	33° 49' 51"
03040205	05	04	16,163	25.25	-79° 57' 12"	33° 46' 56"
03040205	05	05	16,287	25.45	-79° 56' 27"	33° 43' 40"
03040205	06	01	18,758	29.31	-80° 08' 00"	33° 48' 31"
03040205	06	02	18,219	28.47	-80° 06' 44"	33° 48' 41"
03040205	06	03	25,978	40.59	-80° 02' 04"	33° 42' 17"
03040205	06	04	21,759	34.00	-79° 56' 26"	33° 43' 40"
03040205	07	01	17,615	27.52	-79° 55' 10"	33° 43' 27"
03040205	07	02	12,285	19.20	-79° 49' 28"	33° 49' 02"
03040205	07	03	31,917	49.87	-79° 50' 45"	33° 40' 00"
03040205	07	04	13,720	21.44	-79° 50' 45"	33° 39' 59"
03040205	07	05	18,591	29.05	-79° 52' 44"	33° 37' 02"
03040205	07	06	30,621	47.85	-79° 49' 22"	33° 35' 44"
03040205	07	07	11,496	17.96	-79° 49' 26"	33° 35' 36"
03040205	07	08	18,254	28.52	-79° 47' 01"	33° 35' 27"
03040205	07	09	18,617	29.09	-79° 43' 46"	33° 33' 46"
03040205	07	10	36,441	56.94	-79° 42' 29"	33° 33' 20"
03040205	08	01	22,022	34.41	-79° 36' 56"	33° 42' 54"
03040205	08	02	21,469	33.55	-79° 36' 54"	33° 42' 57"
03040205	08	03	37,834	59.12	-79° 32' 52"	33° 42' 07"
03040205	08	04	14,574	22.77	-79° 27' 36"	33° 38' 54"
03040205	08	05	25,620	40.03	-79° 26' 00"	33° 37' 18"
03040205	08	06	39,233	61.30	-79° 23' 30"	33° 33' 09"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040205	09	01	13,609	21.26	-79° 39' 30"	33° 32' 29"
03040205	09	02	25,153	39.30	-79° 33' 38"	33° 29' 55"
03040205	09	03	27,140	42.41	-79° 32' 45"	33° 29' 26"
03040205	09	04	37,486	58.57	-79° 31' 51"	33° 28' 36"
03040205	09	05	17,130	26.77	-79° 30' 55"	33° 28' 52"
03040205	09	06	25,674	40.12	-79° 23' 30"	33° 33' 08"
03040205	09	07	29,433	45.99	-79° 17' 47"	33° 29' 57"
03040205	09	08	19,429	30.36	-79° 16' 15"	33° 28' 08"
03040205	09	09	26,186	40.92	-79° 16' 20"	33° 28' 47"
03040205	09	10	11,455	17.90	-79° 14' 49"	33° 23' 55"
03040206	05	03	11,399	17.81	-78° 45' 35"	34° 07' 13"
03040206	05	04	15,163	23.69	-78° 42' 47"	34° 05' 10"
03040206	05	05	29,799	46.56	-78° 42' 05"	34° 05' 09"
03040206	07	01	26,288	41.08	-78° 38' 37"	33° 57' 00"
03040206	07	02	22,218	34.72	-78° 39' 01"	33° 56' 39"
03040206	07	03	35,578	55.59	-78° 42' 45"	33° 54' 55"
03040206	07	04	12,917	20.18	-78° 42' 52"	33° 54' 42"
03040206	07	05	33,904	52.98	-78° 49' 20"	33° 53' 42"
03040206	07	06	26,793	41.86	-78° 49' 21"	33° 53' 40"
03040206	08	01	16,923	26.44	Undefined	Undefined
03040206	08	02	38,538	60.22	Undefined	Undefined
03040206	08	03	27,987	43.73	Undefined	Undefined
03040206	09	01	8,298	12.97	-78° 54' 33"	33° 49' 34"
03040206	09	02	24,339	38.03	-78° 54' 34"	33° 50' 38"
03040206	09	03	11,119	17.37	-79° 00' 05"	33° 49' 47"
03040206	09	04	12,683	19.82	-79° 02' 38"	33° 50' 03"
03040206	09	05	24,646	38.51	-79° 03' 45"	33° 44' 22"
03040206	09	06	33,067	51.67	-79° 03' 50"	33° 39' 59"
03040206	09	07	22,163	34.63	-79° 03' 52"	33° 40' 01"
03040206	10	01	10,362	16.19	-79° 05' 14"	33° 33' 53"
03040206	10	02	18,821	29.41	-79° 06' 20"	33° 32' 02"
03040206	10	03	26,411	41.27	-79° 15' 41"	33° 21' 05"
03040207	01	01	20,579	32.15	-79° 29' 48"	33° 22' 54"
03040207	01	02	15,306	23.92	-79° 29' 48"	33° 22' 54"
03040207	01	03	14,674	22.93	-79° 21' 07"	33° 22' 02"
03040207	01	04	27,252	42.58	-79° 21' 03"	33° 22' 00"
03040207	01	05	15,806	24.70	-79° 20' 43"	33° 21' 52"
03040207	01	06	11,645	18.20	-79° 16' 48"	33° 21' 02"
03040207	02	01	13,392	20.93	Undefined	Undefined

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03040207	02	02	13,392	20.93	Undefined	Undefined
03040207	02	03	32,709	51.11	Undefined	Undefined
03040207	02	04	38,323	59.88	Undefined	Undefined
03040207	02	05	12,858	20.09	Undefined	Undefined
03040207	02	06	27,215	42.52	Undefined	Undefined
03040207	02	07	38,698	60.47	Undefined	Undefined
03040207	02	08	48,090	75.14	Undefined	Undefined
03040207	02	09	14,801	23.13	Undefined	Undefined
03040207	02	10	19,780	30.91	Undefined	Undefined
03040208	03	01	35,193	54.99	Undefined	Undefined
03040208	03	03	3,067	4.79	Undefined	Undefined
03040208	03	05	7,317	11.43	Undefined	Undefined
03040208	03	06	6,160	9.63	Undefined	Undefined
03040208	03	07	4,695	7.34	Undefined	Undefined
03040208	03	08	3,989	6.23	Undefined	Undefined
03040208	03	09	6,495	10.15	Undefined	Undefined
03040208	03	10	10,049	15.70	Undefined	Undefined
03040208	03	12	5,409	8.45	Undefined	Undefined
03040208	03	13	22,325	34.88	Undefined	Undefined
03040208	03	14	15,964	24.94	Undefined	Undefined
03040208	03	15	15,205	23.76	Undefined	Undefined
03040208	03	16	14,125	22.07	Undefined	Undefined
03040208	03	17	25,592	39.99	Undefined	Undefined
03040208	04	01	5,350	8.36	Undefined	Undefined
03040208	04	02	15,705	24.54	Undefined	Undefined
03040208	04	03	17,490	27.33	Undefined	Undefined
03040208	04	04	14,786	23.10	Undefined	Undefined
03050101	15	02	18,450	28.83	-81° 03' 27"	35° 05' 12"
03050101	15	04	12,161	19.00	-81° 06' 41"	35° 06' 54"
03050101	15	05	36,604	57.19	-81° 03' 45"	35° 05' 25"
03050101	15	06	33,233	51.93	-81° 02' 54"	35° 01' 46"
03050101	15	07	9,155	14.30	-81° 02' 59"	35° 01' 37"
03050101	15	08	12,409	19.39	-81° 00' 29"	35° 01' 14"
03050103	01	02	32,540	50.84	-80° 54' 12"	35° 03' 54"
03050103	01	03	27,824	43.48	Undefined	Undefined
03050103	01	06	9,772	15.27	-80° 53' 50"	35° 02' 02"
03050103	01	07	29,823	46.60	-80° 53' 51"	35° 02' 03"
03050103	01	08	21,374	33.40	-80° 54' 35"	35° 01' 04"
03050103	01	09	13,571	21.20	-80° 52' 08"	34° 56' 40"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050103	02	03	25,420	39.72	-80° 48' 43"	34° 54' 59"
03050103	02	04	20,541	32.10	-80° 51' 59"	34° 51' 13"
03050103	03	01	18,194	28.43	-80° 48' 42"	34° 43' 57"
03050103	03	02	32,060	50.09	-80° 48' 43"	34° 43' 57"
03050103	03	03	23,405	36.57	-80° 47' 44"	34° 43' 08"
03050103	03	04	19,439	30.37	-80° 48' 28"	34° 43' 18"
03050103	03	05	11,614	18.15	-80° 51' 31"	34° 41' 46"
03050103	04	01	19,007	29.70	-81° 04' 21"	34° 53' 01"
03050103	04	02	31,767	49.64	-81° 04' 21"	34° 53' 00"
03050103	04	03	12,343	19.29	-81° 03' 57"	34° 50' 23"
03050103	04	04	13,407	20.95	-81° 07' 51"	34° 48' 53"
03050103	04	05	14,271	22.30	-81° 07' 49"	34° 48' 55"
03050103	04	06	14,723	23.00	-81° 01' 50"	34° 47' 18"
03050103	04	07	26,466	41.35	-81° 01' 48"	34° 47' 17"
03050103	04	08	16,978	26.53	-80° 57' 29"	34° 43' 02"
03050103	04	09	17,677	27.62	-80° 57' 30"	34° 43' 01"
03050103	04	10	18,221	28.47	-80° 53' 44"	34° 35' 52"
03050103	05	01	9,160	14.31	-81° 03' 23"	34° 40' 40"
03050103	05	02	38,496	60.15	-81° 03' 23"	34° 40' 39"
03050103	05	03	11,834	18.49	-80° 56' 52"	34° 35' 49"
03050103	05	04	35,322	55.19	-80° 56' 32"	34° 35' 00"
03050103	05	05	33,069	51.67	-80° 53' 46"	34° 33' 23"
03050103	06	01	11,348	17.73	-80° 59' 40"	34° 59' 27"
03050103	06	02	29,103	45.47	-80° 52' 12"	34° 56' 37"
03050103	06	03	33,667	52.60	-80° 52' 26"	34° 47' 50"
03050103	06	04	28,523	44.57	-80° 52' 31"	34° 47' 07"
03050103	06	05	26,305	41.10	-80° 52' 48"	34° 35' 10"
03050103	06	06	36,170	56.52	-80° 52' 38"	34° 32' 30"
03050104	01	01	20,808	32.51	-80° 52' 24"	34° 32' 18"
03050104	01	02	34,056	53.21	-81° 00' 11"	34° 26' 19"
03050104	01	03	13,377	20.90	-80° 55' 49"	34° 27' 35"
03050104	01	04	24,480	38.25	-81° 00' 29"	34° 29' 07"
03050104	01	05	18,639	29.12	-80° 53' 27"	34° 28' 01"
03050104	01	06	10,028	15.67	-80° 53' 19"	34° 28' 12"
03050104	01	07	12,500	19.53	-80° 50' 28"	34° 25' 38"
03050104	01	08	27,289	42.64	-80° 51' 04"	34° 25' 24"
03050104	01	09	33,329	52.08	-80° 47' 06"	34° 25' 02"
03050104	01	10	11,132	17.39	-80° 44' 10"	34° 22' 37"
03050104	01	11	40,537	63.34	-80° 42' 08"	34° 20' 08"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050104	02	01	18,737	29.28	-80° 38' 45"	34° 24' 00"
03050104	02	02	26,563	41.50	-80° 41' 33"	34° 19' 41"
03050104	02	03	37,234	58.18	-80° 41' 38"	34° 19' 15"
03050104	02	04	26,191	40.92	-80° 40' 55"	34° 18' 32"
03050104	02	05	25,145	39.29	-80° 50' 48"	34° 11' 03"
03050104	02	06	24,501	38.28	-80° 48' 56"	34° 13' 02"
03050104	02	07	30,035	46.93	-80° 39' 24"	34° 14' 54"
03050104	02	08	14,248	22.26	-80° 39' 22"	34° 14' 56"
03050104	03	01	19,386	30.29	-80° 31' 25"	34° 17' 01"
03050104	03	02	22,376	34.96	-80° 36' 24"	34° 12' 45"
03050104	03	03	9,738	15.22	-80° 36' 17"	34° 10' 56"
03050104	03	04	33,808	52.83	-80° 38' 17"	34° 08' 23"
03050104	03	05	39,941	62.41	-80° 36' 12"	34° 02' 29"
03050104	03	06	35,107	54.85	-80° 36' 02"	34° 02' 24"
03050104	03	07	14,759	23.06	-80° 36' 03"	34° 02' 23"
03050104	04	01	13,798	21.56	-80° 45' 48"	34° 07' 59"
03050104	04	02	31,445	49.13	-80° 38' 46"	34° 00' 01"
03050104	04	03	25,720	40.19	-80° 43' 58"	34° 00' 27"
03050104	04	04	18,921	29.56	-80° 37' 44"	33° 56' 53"
03050104	04	05	32,796	51.24	-80° 37' 41"	33° 56' 53"
03050104	04	06	25,201	39.38	-80° 35' 36"	33° 52' 29"
03050104	04	07	31,926	49.88	-80° 37' 08"	33° 44' 37"
03050105	05	01	29,620	46.28	-81° 50' 26"	35° 12' 20"
03050105	05	03	16,047	25.07	-81° 45' 26"	35° 13' 14"
03050105	05	06	23,440	36.63	-81° 37' 29"	35° 11' 35"
03050105	08	05	17,313	27.05	-81° 34' 15"	35° 06' 53"
03050105	09	01	18,352	28.68	-81° 27' 02"	35° 06' 36"
03050105	09	02	25,549	39.92	-81° 29' 19"	35° 01' 44"
03050105	10	01	6,689	10.45	-81° 42' 03"	34° 59' 55"
03050105	10	02	39,902	62.35	-81° 41' 29"	34° 59' 25"
03050105	10	03	17,122	26.75	-81° 30' 13"	34° 55' 20"
03050105	10	04	37,049	57.89	-81° 28' 43"	34° 54' 07"
03050105	11	01	27,555	43.05	-81° 22' 43"	34° 57' 42"
03050105	11	02	24,040	37.56	-81° 22' 42"	34° 57' 42"
03050105	11	03	25,829	40.36	-81° 27' 44"	34° 51' 20"
03050105	12	01	28,887	45.14	-82° 11' 07"	35° 12' 52"
03050105	12	02	19,960	31.19	-82° 04' 54"	35° 11' 05"
03050105	12	03	26,283	41.07	-81° 57' 48"	35° 06' 40"
03050105	13	01	35,613	55.65	-82° 07' 34"	35° 06' 22"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050105	13	02	22,917	35.81	-81° 57' 47"	35° 06' 39"
03050105	14	01	35,844	56.01	-81° 55' 41"	34° 59' 22"
03050105	14	02	18,569	29.01	-81° 47' 10"	34° 56' 41"
03050105	15	01	23,252	36.33	-81° 52' 55"	35° 04' 56"
03050105	15	02	16,194	25.30	-81° 51' 48"	35° 03' 09"
03050105	15	03	11,100	17.34	-81° 50' 50"	35° 02' 20"
03050105	15	04	26,157	40.87	-81° 47' 08"	34° 56' 43"
03050105	15	05	32,902	51.41	-81° 38' 16"	34° 52' 49"
03050105	15	06	32,273	50.43	-81° 27' 27"	34° 50' 22"
03050105	16	01	28,109	43.92	-81° 34' 18"	35° 06' 53"
03050105	16	02	14,912	23.30	-81° 34' 21"	35° 04' 59"
03050105	16	03	25,971	40.58	-81° 29' 20"	35° 01' 38"
03050105	16	04	36,599	57.19	-81° 27' 26"	34° 50' 21"
03050106	01	01	18,954	29.62	-81° 19' 29"	34° 52' 11"
03050106	01	02	20,825	32.54	-81° 19' 30"	34° 52' 11"
03050106	01	03	15,514	24.24	-81° 23' 48"	34° 47' 22"
03050106	01	04	11,165	17.45	-81° 23' 50"	34° 47' 20"
03050106	01	05	27,263	42.60	-81° 27' 07"	34° 45' 41"
03050106	02	01	17,355	27.12	-81° 19' 16"	34° 39' 32"
03050106	02	02	29,279	45.75	-81° 19' 16"	34° 39' 31"
03050106	02	03	13,619	21.28	-81° 21' 43"	34° 38' 07"
03050106	02	04	27,461	42.91	-81° 22' 03"	34° 36' 17"
03050106	02	05	16,848	26.33	-81° 25' 20"	34° 34' 20"
03050106	03	01	18,934	29.58	-81° 27' 10"	34° 45' 44"
03050106	03	02	33,946	53.04	-81° 28' 44"	34° 43' 22"
03050106	03	03	21,600	33.75	-81° 26' 51"	34° 39' 55"
03050106	03	04	13,169	20.58	-81° 26' 46"	34° 39' 32"
03050106	03	05	23,625	36.91	-81° 25' 24"	34° 29' 39"
03050106	04	01	27,926	43.63	-81° 24' 34"	34° 25' 49"
03050106	04	02	26,112	40.80	-81° 22' 15"	34° 19' 23"
03050106	04	03	11,234	17.55	-81° 20' 21"	34° 18' 05"
03050106	04	04	17,834	27.87	-81° 29' 11"	34° 16' 28"
03050106	04	05	25,192	39.36	-81° 20' 45"	34° 16' 54"
03050106	04	06	37,895	59.21	-81° 20' 01"	34° 15' 36"
03050106	05	01	15,711	24.55	-81° 13' 08"	34° 26' 24"
03050106	05	02	24,471	38.24	-81° 13' 07"	34° 26' 26"
03050106	05	03	21,485	33.57	-81° 14' 21"	34° 25' 04"
03050106	05	04	24,528	38.33	-81° 14' 18"	34° 21' 12"
03050106	05	05	12,996	20.31	-81° 14' 55"	34° 18' 42"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050106	05	06	19,954	31.18	-81° 14' 56"	34° 18' 41"
03050106	05	07	36,125	56.45	-81° 10' 43"	34° 10' 34"
03050106	06	01	30,642	47.88	-81° 05' 50"	34° 12' 36"
03050106	06	02	21,587	33.73	-81° 06' 52"	34° 11' 19"
03050106	06	03	12,352	19.30	-81° 08' 18"	34° 08' 21"
03050106	07	01	21,932	34.27	-81° 19' 44"	34° 14' 58"
03050106	07	02	16,659	26.03	-81° 14' 51"	34° 12' 07"
03050106	07	03	21,287	33.26	-81° 10' 42"	34° 10' 29"
03050106	07	04	10,928	17.08	-81° 09' 05"	34° 09' 11"
03050106	07	05	13,841	21.63	-81° 00' 16"	34° 06' 16"
03050106	07	06	14,316	22.37	-81° 00' 16"	34° 06' 16"
03050106	07	07	15,002	23.44	-81° 04' 13"	34° 02' 31"
03050106	07	08	34,634	54.12	-81° 03' 35"	34° 00' 30"
03050107	01	01	29,084	45.44	-82° 11' 41"	34° 58' 54"
03050107	01	02	10,276	16.06	-82° 11' 34"	34° 58' 20"
03050107	01	03	15,237	23.81	-81° 59' 57"	34° 52' 10"
03050107	02	01	22,377	34.96	-82° 02' 45"	34° 55' 48"
03050107	02	02	17,763	27.75	-81° 59' 57"	34° 52' 12"
03050107	02	03	16,034	25.05	-81° 55' 55"	34° 45' 35"
03050107	03	01	30,451	47.58	-82° 17' 38"	34° 59' 41"
03050107	03	02	14,339	22.40	-82° 12' 21"	34° 57' 44"
03050107	03	03	18,489	28.89	-82° 06' 05"	34° 53' 17"
03050107	03	04	17,481	27.31	-81° 57' 51"	34° 46' 07"
03050107	03	05	29,271	45.74	-81° 55' 56"	34° 45' 34"
03050107	04	01	22,734	35.52	-81° 54' 31"	34° 53' 02"
03050107	04	02	32,012	50.02	-81° 46' 16"	34° 49' 44"
03050107	04	03	8,678	13.56	-81° 45' 43"	34° 49' 29"
03050107	04	04	12,031	18.80	-81° 42' 12"	34° 41' 40"
03050107	04	05	35,552	55.55	-81° 42' 10"	34° 41' 40"
03050107	04	06	28,661	44.78	-81° 36' 53"	34° 35' 57"
03050107	05	01	13,429	20.98	-81° 52' 13"	34° 43' 11"
03050107	05	02	21,368	33.39	-81° 47' 47"	34° 40' 40"
03050107	05	03	30,736	48.03	-81° 44' 21"	34° 39' 58"
03050107	05	04	17,446	27.26	-81° 36' 54"	34° 35' 56"
03050107	05	05	18,206	28.45	-81° 34' 39"	34° 34' 47"
03050107	05	06	16,236	25.37	-81° 26' 28"	34° 29' 48"
03050107	05	07	39,182	61.22	-81° 25' 24"	34° 29' 39"
03050108	01	01	38,191	59.67	-82° 15' 02"	34° 53' 23"
03050108	01	02	25,535	39.90	-82° 12' 38"	34° 50' 34"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050108	01	03	20,360	31.81	-82° 09' 16"	34° 47' 06"
03050108	01	04	21,577	33.71	-82° 09' 15"	34° 47' 06"
03050108	01	05	32,944	51.48	-82° 02' 49"	34° 41' 24"
03050108	01	06	28,735	44.90	-81° 58' 12"	34° 38' 59"
03050108	02	01	11,743	18.35	-82° 58' 12"	34° 38' 58"
03050108	02	02	23,506	36.73	-81° 54' 41"	34° 36' 12"
03050108	02	03	10,399	16.25	-81° 51' 02"	34° 35' 42"
03050108	02	04	25,763	40.25	-81° 51' 03"	34° 35' 41"
03050108	02	05	15,378	24.03	-81° 47' 20"	34° 34' 27"
03050108	02	06	31,890	49.83	-81° 34' 30"	34° 29' 27"
03050108	03	01	25,970	40.58	-81° 51' 06"	34° 32' 04"
03050108	03	02	15,481	24.19	-81° 39' 56"	34° 29' 53"
03050108	03	03	35,293	55.15	-81° 34' 31"	34° 29' 26"
03050108	04	01	30,028	46.92	-81° 39' 13"	34° 24' 27"
03050108	04	02	13,041	20.38	-81° 35' 26"	34° 24' 40"
03050108	04	03	18,909	29.55	-81° 31' 42"	34° 25' 45"
03050108	05	01	16,663	26.04	-81° 30' 55"	34° 24' 21"
03050108	05	02	26,641	41.63	-81° 24' 39"	34° 25' 59"
03050109	01	01	16,272	25.43	-82° 25' 18"	35° 08' 27"
03050109	01	02	32,152	50.24	-82° 31' 32"	34° 57' 10"
03050109	02	01	31,491	49.20	-82° 35' 35"	35° 00' 29"
03050109	02	02	35,074	54.80	-82° 32' 18"	35° 00' 57"
03050109	02	03	31,448	49.14	-82° 32' 16"	35° 00' 56"
03050109	02	04	11,475	17.93	-82° 31' 34"	34° 57' 09"
03050109	03	01	29,976	46.84	-82° 29' 04"	34° 51' 09"
03050109	03	02	21,103	32.97	-82° 29' 16"	34° 49' 09"
03050109	03	03	23,654	36.96	-82° 27' 59"	34° 42' 22"
03050109	03	04	9,682	15.13	-82° 27' 54"	34° 40' 22"
03050109	03	05	22,282	34.82	-82° 25' 41"	34° 35' 57"
03050109	03	06	12,533	19.58	-82° 25' 33"	34° 34' 24"
03050109	03	07	29,433	45.99	-82° 25' 33"	34° 34' 25"
03050109	04	01	15,924	24.88	-82° 25' 13"	34° 51' 55"
03050109	04	02	25,684	40.13	-82° 20' 55"	34° 46' 17"
03050109	04	03	22,837	35.68	-82° 18' 12"	34° 37' 27"
03050109	04	04	32,146	50.23	-82° 18' 10"	34° 37' 26"
03050109	05	01	23,116	36.12	-82° 08' 31"	34° 28' 42"
03050109	05	02	33,016	51.59	-82° 08' 30"	34° 28' 43"
03050109	05	03	25,398	39.68	-82° 06' 08"	34° 20' 37"
03050109	06	01	15,017	23.46	-82° 13' 27"	34° 30' 43"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued
[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050109	06	02	31,210	48.77	-82° 11' 59"	34° 27' 19"
03050109	06	03	5,636	8.81	-82° 05' 12"	34° 19' 48"
03050109	06	04	27,433	42.86	-82° 05' 22"	34° 18' 06"
03050109	07	01	26,697	41.71	-82° 04' 17"	34° 12' 39"
03050109	07	02	22,872	35.74	-81° 56' 14"	34° 09' 55"
03050109	07	03	19,974	31.21	-81° 59' 51"	34° 08' 43"
03050109	07	04	22,430	35.05	-81° 54' 30"	34° 09' 47"
03050109	08	01	13,017	20.34	-82° 19' 36"	34° 29' 46"
03050109	08	02	21,785	34.04	-82° 18' 09"	34° 27' 35"
03050109	08	03	12,447	19.45	-82° 17' 00"	34° 24' 06"
03050109	08	04	30,056	46.96	-82° 10' 11"	34° 19' 50"
03050109	08	05	37,162	58.07	-82° 10' 05"	34° 19' 48"
03050109	08	06	20,766	32.45	-82° 01' 08"	34° 15' 00"
03050109	08	07	20,792	32.49	-82° 01' 09"	34° 15' 00"
03050109	08	08	26,612	41.58	-81° 54' 09"	34° 10' 11"
03050109	09	01	19,397	30.31	-81° 59' 49"	34° 28' 50"
03050109	09	02	10,657	16.65	-81° 54' 19"	34° 21' 37"
03050109	09	03	13,053	20.40	-81° 53' 21"	34° 20' 42"
03050109	09	04	8,035	12.55	-81° 52' 48"	34° 20' 16"
03050109	09	05	27,061	42.28	-81° 52' 10"	34° 18' 49"
03050109	09	06	11,968	18.70	-81° 50' 30"	34° 16' 48"
03050109	09	07	32,973	51.52	-81° 48' 12"	34° 13' 37"
03050109	09	08	24,006	37.51	-81° 44' 17"	34° 11' 09"
03050109	10	01	30,519	47.69	-81° 37' 17"	33° 57' 13"
03050109	10	02	8,004	12.51	-81° 35' 01"	34° 04' 05"
03050109	10	03	33,416	52.21	-81° 34' 51"	34° 04' 20"
03050109	11	01	28,923	45.19	-81° 45' 49"	33° 59' 24"
03050109	11	02	27,754	43.37	-81° 45' 50"	33° 59' 24"
03050109	11	03	35,729	55.83	-81° 40' 33"	34° 04' 02"
03050109	11	04	29,968	46.83	-81° 40' 04"	34° 03' 33"
03050109	11	05	21,303	33.29	-81° 32' 42"	34° 05' 09"
03050109	12	01	22,669	35.42	-81° 52' 12"	34° 08' 06"
03050109	12	02	31,454	49.15	-81° 44' 17"	34° 11' 08"
03050109	12	03	18,528	28.95	-81° 38' 01"	34° 08' 50"
03050109	12	04	32,463	50.72	-81° 40' 35"	34° 16' 39"
03050109	12	05	12,744	19.91	-81° 36' 59"	34° 11' 06"
03050109	12	06	32,228	50.36	-81° 35' 52"	34° 07' 08"
03050109	12	07	32,466	50.73	-81° 32' 29"	34° 04' 57"
03050109	13	01	8,631	13.49	-81° 28' 27"	34° 04' 39"
03050109	13	02	10,625	16.60	-81° 28' 03"	34° 05' 09"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued
[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050109	13	03	14,187	22.17	-81° 26' 40"	34° 01' 14"
03050109	13	04	20,080	31.38	-81° 23' 50"	34° 03' 54"
03050109	13	05	12,113	18.93	-81° 26' 49"	34° 07' 58"
03050109	13	06	13,086	20.45	-81° 23' 22"	34° 04' 35"
03050109	13	07	19,826	30.98	-81° 23' 28"	34° 04' 16"
03050109	13	08	16,447	25.70	-81° 20' 27"	34° 04' 42"
03050109	13	09	7,630	11.92	-81° 20' 15"	34° 02' 59"
03050109	13	10	11,934	18.65	-81° 16' 45"	34° 04' 41"
03050109	13	11	30,641	47.88	-81° 13' 10"	34° 03' 13"
03050109	14	01	19,934	31.15	-81° 14' 36"	33° 58' 10"
03050109	14	02	18,701	29.22	-81° 09' 31"	34° 02' 14"
03050109	14	03	26,973	42.15	-81° 03' 49"	34° 00' 22"
03050110	01	01	20,423	31.91	-81° 09' 08"	33° 54' 57"
03050110	01	02	23,595	36.87	-81° 09' 06"	33° 54' 57"
03050110	01	03	22,164	34.63	-81° 07' 25"	33° 55' 10"
03050110	01	04	25,148	39.29	-81° 01' 47"	33° 55' 03"
03050110	02	01	12,332	19.27	-80° 57' 23"	34° 02' 13"
03050110	02	02	14,124	22.07	-80° 57' 09"	34° 02' 10"
03050110	02	03	21,224	33.16	-81° 00' 53"	33° 54' 34"
03050110	03	01	6,908	10.79	-81° 02' 09"	33° 57' 45"
03050110	03	02	23,379	36.53	-80° 56' 50"	33° 50' 08"
03050110	03	03	31,896	49.84	-80° 56' 44"	33° 50' 09"
03050110	03	04	26,844	41.94	-80° 55' 16"	33° 50' 07"
03050110	03	05	19,657	30.71	-80° 51' 36"	33° 50' 28"
03050110	03	06	23,162	36.19	-80° 51' 37"	33° 50' 25"
03050110	03	07	11,001	17.19	-80° 49' 00"	33° 49' 17"
03050110	03	08	29,495	46.09	-80° 50' 11"	33° 47' 16"
03050110	03	09	16,981	26.53	-80° 44' 52"	33° 45' 40"
03050110	03	10	42,955	67.12	-80° 42' 49"	33° 46' 08"
03050110	04	01	33,028	51.61	-80° 41' 31"	33° 47' 19"
03050110	04	02	13,121	20.50	-80° 39' 25"	33° 45' 40"
03050110	04	03	23,571	36.83	-80° 37' 10"	33° 44' 37"
03050111	01	01	14,146	22.10	-80° 35' 30"	33° 41' 09"
03050111	01	02	15,675	24.49	-80° 30' 41"	33° 38' 43"
03050111	01	03	21,151	33.05	-80° 40' 49"	33° 38' 57"
03050111	01	04	28,152	43.99	-80° 32' 16"	33° 36' 57"
03050111	01	05	12,278	19.18	-80° 30' 16"	33° 33' 13"
03050111	01	06	34,227	53.48	-80° 27' 25"	33° 33' 48"
03050111	01	07	24,662	38.53	-80° 18' 23"	33° 29' 24"
03050111	01	08	35,588	55.61	-80° 12' 29"	33° 31' 05"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued
[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050111	01	09	165,027	257.85	-80° 09' 50"	33° 27' 14"
03050112	01	01	17,756	27.74	-80° 04' 23"	33° 30' 26"
03050112	01	02	24,803	38.75	-80° 04' 23"	33° 30' 26"
03050112	01	03	27,285	42.63	-79° 58' 18"	33° 30' 04"
03050112	01	04	14,571	22.77	-79° 58' 16"	33° 30' 03"
03050112	01	05	23,584	36.85	-79° 51' 18"	33° 24' 11"
03050112	01	06	36,260	56.66	-79° 51' 04"	33° 24' 04"
03050112	02	01	15,492	24.21	-79° 45' 23"	33° 19' 45"
03050112	02	02	17,238	26.93	-79° 44' 31"	33° 19' 19"
03050112	02	03	17,459	27.28	-79° 41' 21"	33° 18' 40"
03050112	02	04	29,754	46.49	-79° 41' 21"	33° 18' 37"
03050112	02	05	28,400	44.38	-79° 32' 51"	33° 15' 21"
03050112	02	06	29,199	45.62	-79° 27' 29"	33° 14' 05"
03050112	03	01	21,522	33.63	-79° 31' 15"	33° 08' 50"
03050112	03	02	24,580	38.41	-79° 26' 48"	33° 12' 46"
03050112	03	03	38,696	60.46	-79° 16' 48"	33° 06' 55"
03050112	03	04	25,288	39.51	Undefined	Undefined
03050112	04	01	15,053	23.52	-79° 36' 29"	33° 18' 23"
03050112	04	02	21,576	33.71	-79° 27' 05"	33° 14' 19"
03050112	04	03	44,687	69.82	-79° 14' 32"	33° 08' 04"
03050112	04	04	13,957	21.81	Undefined	Undefined
03050201	01	01	78,584	122.79	-79° 59' 28"	33° 14' 40"
03050201	02	01	37,182	58.10	-79° 54' 42"	33° 15' 20"
03050201	02	02	10,749	16.80	-79° 54' 42"	33° 15' 20"
03050201	02	03	34,413	53.77	-79° 58' 09"	33° 11' 10"
03050201	03	01	16,508	25.79	-79° 48' 04"	33° 08' 10"
03050201	03	02	29,240	45.69	-79° 48' 12"	33° 07' 57"
03050201	03	03	12,454	19.46	-79° 49' 09"	33° 07' 21"
03050201	03	04	22,682	35.44	-79° 49' 25"	33° 06' 04"
03050201	03	05	19,344	30.23	-79° 53' 36"	33° 03' 41"
03050201	03	06	18,719	29.25	-79° 55' 22"	33° 04' 01"
03050201	04	01	40,005	62.51	-79° 48' 16"	32° 55' 45"
03050201	04	02	32,333	50.52	-79° 54' 42"	32° 48' 50"
03050201	05	01	12,465	19.48	-80° 09' 28"	33° 11' 50"
03050201	05	02	19,937	31.15	-80° 09' 27"	33° 11' 50"
03050201	05	03	18,608	29.08	-81° 10' 32"	33° 09' 03"
03050201	05	04	32,769	51.20	-80° 14' 23"	33° 05' 55"
03050201	05	05	16,569	25.89	-80° 17' 43"	33° 03' 30"
03050201	05	06	38,720	60.50	-80° 15' 32"	32° 58' 12"
03050201	06	01	13,409	20.95	-80° 09' 54"	32° 56' 55"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued
[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050201	06	02	9,466	14.79	-80° 09' 56"	32° 56' 54"
03050201	06	03	8,493	13.27	-80° 09' 36"	32° 56' 43"
03050201	06	04	24,415	38.15	-80° 03' 51"	32° 52' 12"
03050201	06	05	31,045	48.51	-79° 55' 47"	32° 45' 40"
03050201	07	01	34,712	54.24	-79° 55' 24"	33° 03' 59"
03050201	07	02	10,529	16.45	-79° 57' 57"	33° 07' 04"
03050201	07	03	9,370	14.64	-79° 56' 35"	32° 58' 33"
03050201	07	04	39,813	62.21	-79° 55' 40"	32° 58' 08"
03050201	07	05	28,515	44.55	-79° 56' 08"	32° 54' 39"
03050201	07	06	38,548	60.23	-79° 56' 59"	32° 54' 33"
03050201	07	07	44,875	70.12	-79° 51' 49"	32° 45' 03"
03050201	07	08	24,216	37.84	Undefined	Undefined
03050202	01	01	15,307	23.92	-80° 18' 35"	32° 55' 58"
03050202	01	02	10,187	15.92	-80° 12' 45"	32° 52' 19"
03050202	01	03	17,706	27.67	-80° 16' 13"	32° 47' 56"
03050202	01	04	27,321	42.69	-80° 07' 53"	32° 47' 15"
03050202	01	05	35,866	56.04	-80° 07' 14"	32° 46' 51"
03050202	02	01	14,473	22.61	-80° 08' 12"	32° 45' 16"
03050202	02	02	39,108	61.11	-79° 59' 19"	32° 42' 22"
03050202	02	03	15,450	24.14	-80° 01' 15"	32° 38' 20"
03050202	02	04	8,670	13.55	-79° 58' 48"	32° 38' 16"
03050202	02	05	20,831	32.55	-79° 59' 41"	32° 37' 51"
03050202	02	06	14,717	23.00	Undefined	Undefined
03050202	02	07	29,495	46.09	Undefined	Undefined
03050203	01	01	27,455	42.90	-81° 27' 39"	33° 47' 50"
03050203	01	02	23,346	36.48	-81° 27' 38"	33° 47' 50"
03050203	01	03	26,227	40.98	-81° 24' 39"	33° 43' 52"
03050203	01	04	22,271	34.80	-81° 21' 04"	33° 49' 07"
03050203	01	05	21,440	33.50	-81° 16' 58"	33° 41' 41"
03050203	01	06	33,096	51.71	-81° 16' 57"	33° 41' 40"
03050203	02	01	28,373	44.33	-81° 15' 24"	33° 41' 07"
03050203	02	02	11,718	18.31	-81° 12' 00"	33° 39' 30"
03050203	02	03	12,832	20.05	-81° 11' 14"	33° 39' 13"
03050203	02	04	12,638	19.75	-81° 11' 15"	33° 39' 13"
03050203	02	05	12,716	19.87	-81° 06' 50"	33° 35' 36"
03050203	02	06	19,735	30.84	-81° 06' 31"	33° 43' 57"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050203	02	07	14,137	22.09	-81° 02' 52"	33° 38' 09"
03050203	02	08	28,355	44.30	-81° 01' 59"	33° 34' 36"
03050203	02	09	9,305	14.54	-81° 02' 29"	33° 34' 38"
03050203	02	10	27,910	43.61	-81° 01' 59"	33° 34' 35"
03050203	03	01	13,078	20.43	-80° 57' 03"	33° 31' 36"
03050203	03	02	7,784	12.16	-80° 56' 55"	33° 31' 27"
03050203	03	03	19,092	29.83	-80° 56' 55"	33° 31' 29"
03050203	03	04	13,270	20.73	-80° 53' 38"	33° 30' 00"
03050203	03	05	37,225	58.16	-80° 52' 06"	33° 34' 56"
03050203	03	06	14,227	22.23	-80° 53' 36"	33° 30' 01"
03050203	03	07	14,508	22.67	-80° 53' 00"	33° 20' 10"
03050203	03	08	35,322	55.19	-80° 53' 11"	33° 15' 50"
03050204	01	01	34,051	53.20	-81° 41' 24"	33° 45' 42"
03050204	01	02	24,344	38.04	-81° 36' 46"	33° 41' 41"
03050204	01	03	21,834	34.12	-81° 36' 47"	33° 41' 40"
03050204	01	04	17,476	27.31	-81° 34' 06"	33° 38' 57"
03050204	01	05	11,002	17.19	-81° 30' 38"	33° 34' 26"
03050204	01	06	21,506	33.60	-81° 46' 38"	33° 42' 54"
03050204	01	07	32,783	51.22	-81° 37' 55"	33° 34' 59"
03050204	01	08	32,197	50.31	-81° 30' 09"	33° 34' 00"
03050204	01	09	28,371	44.33	-81° 30' 08"	33° 34' 00"
03050204	02	01	7,019	10.97	-81° 28' 15"	33° 32' 50"
03050204	02	02	8,753	13.68	-81° 24' 47"	33° 31' 23"
03050204	02	03	22,593	35.30	-81° 23' 32"	33° 30' 10"
03050204	02	04	11,686	18.26	-81° 21' 43"	33° 29' 04"
03050204	02	05	17,594	27.49	-81° 23' 09"	33° 36' 28"
03050204	02	06	23,478	36.68	-81° 19' 18"	33° 28' 57"
03050204	02	07	27,441	42.88	-81° 19' 18"	33° 28' 56"
03050204	03	01	13,938	21.78	-81° 17' 35"	33° 28' 08"
03050204	03	02	10,839	16.94	-81° 16' 06"	33° 27' 20"
03050204	03	03	26,714	41.74	-81° 14' 01"	33° 26' 36"
03050204	03	04	17,090	26.70	-81° 13' 12"	33° 26' 23"
03050204	03	05	12,756	19.93	-81° 13' 10"	33° 26' 15"
03050204	03	06	12,997	20.31	-81° 09' 26"	33° 24' 53"
03050204	03	07	25,075	39.18	-81° 09' 26"	33° 24' 23"
03050204	03	08	8,124	12.69	-81° 06' 13"	33° 22' 42"
03050204	03	09	21,743	33.97	-81° 01' 50"	33° 20' 58"
03050204	03	10	10,916	17.06	-81° 00' 46"	33° 20' 29"
03050204	03	11	32,340	50.53	-81° 00' 41"	33° 20' 16"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050204	03	12	20,072	31.36	-80° 53' 15"	33° 15' 51"
03050205	01	01	23,518	36.75	-80° 41' 18"	33° 30' 03"
03050205	01	02	28,003	43.75	-80° 41' 11"	33° 30' 02"
03050205	01	03	8,325	13.01	-80° 40' 11"	33° 28' 55"
03050205	01	04	19,493	30.46	-80° 40' 00"	33° 28' 34"
03050205	01	05	10,563	16.50	-80° 37' 32"	33° 26' 13"
03050205	01	06	7,759	12.12	-80° 41' 23"	33° 22' 02"
03050205	01	07	35,739	55.84	-80° 33' 04"	33° 20' 57"
03050205	01	08	34,166	53.38	-80° 33' 02"	33° 20' 58"
03050205	02	01	37,594	58.74	-80° 17' 22"	33° 16' 44"
03050205	02	02	29,164	45.57	-80° 21' 42"	33° 15' 39"
03050205	03	01	14,205	22.20	-80° 30' 36"	33° 21' 39"
03050205	03	02	24,443	38.19	-80° 30' 29"	33° 20' 35"
03050205	03	03	7,187	11.23	-80° 29' 16"	33° 19' 48"
03050205	03	04	8,858	13.84	-80° 29' 45"	33° 18' 08"
03050205	03	05	25,951	40.55	-80° 26' 28"	33° 15' 24"
03050205	03	06	9,867	15.42	-80° 24' 54"	33° 15' 52"
03050205	03	07	14,682	22.94	-80° 21' 57"	33° 15' 15"
03050205	03	08	21,880	34.19	-80° 20' 50"	33° 08' 46"
03050205	03	09	25,575	39.96	-80° 20' 53"	33° 08' 29"
03050205	03	10	12,958	20.25	-80° 21' 30"	33° 06' 44"
03050205	03	11	18,308	28.61	-80° 24' 16"	33° 03' 05"
03050206	01	01	19,282	30.13	-80° 51' 46"	33° 15' 05"
03050206	01	02	19,033	29.74	-80° 50' 27"	33° 12' 28"
03050206	01	03	17,215	26.90	-80° 50' 26"	33° 12' 28"
03050206	01	04	21,233	33.18	-80° 43' 48"	33° 16' 34"
03050206	01	05	20,788	32.48	-80° 41' 40"	33° 08' 27"
03050206	01	06	25,516	39.87	-80° 41' 40"	33° 08' 27"
03050206	01	07	7,011	10.95	-80° 40' 29"	33° 06' 30"
03050206	01	08	39,556	61.81	-80° 30' 22"	33° 03' 32"
03050206	02	01	26,273	41.05	-80° 32' 23"	33° 13' 47"
03050206	02	02	8,410	13.14	-80° 29' 58"	33° 07' 44"
03050206	02	03	37,832	59.11	-80° 30' 52"	33° 04' 44"
03050206	02	04	29,475	46.05	-80° 30' 21"	33° 03' 33"
03050206	03	01	10,060	15.72	-80° 24' 15"	33° 03' 05"
03050206	03	02	32,951	51.49	-80° 23' 54"	32° 55' 36"
03050206	03	03	9,691	15.14	-80° 24' 04"	32° 51' 31"
03050206	03	04	33,611	52.52	-80° 26' 47"	32° 45' 53"
03050206	03	05	19,626	30.67	-80° 25' 44"	32° 43' 10"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050206	03	06	17,718	27.68	-80° 23' 23"	32° 39' 15"
03050206	03	07	16,097	25.15	-80° 21' 40"	32° 31' 01"
03050206	03	08	34,345	53.66	-80° 21' 07"	32° 28' 36"
03050206	03	09	31,027	48.48	Undefined	Undefined
03050206	04	01	17,805	27.82	Undefined	Undefined
03050206	04	02	25,712	40.18	Undefined	Undefined
03050206	04	03	8,884	13.88	Undefined	Undefined
03050206	04	04	22,061	34.47	Undefined	Undefined
03050206	04	05	37,346	58.35	Undefined	Undefined
03050206	04	06	12,753	19.93	Undefined	Undefined
03050207	01	01	20,137	31.46	-81° 25' 57"	33° 17' 26"
03050207	01	02	10,125	15.82	-81° 25' 58"	33° 17' 27"
03050207	01	03	19,927	31.14	-81° 21' 38"	33° 12' 45"
03050207	01	04	17,019	26.59	-81° 21' 37"	33° 12' 44"
03050207	01	05	6,800	10.63	-81° 19' 25"	33° 11' 40"
03050207	01	06	22,872	35.74	-81° 18' 43"	33° 11' 49"
03050207	01	07	13,070	20.42	-81° 14' 55"	33° 10' 01"
03050207	01	08	9,981	15.60	-81° 13' 40"	33° 09' 40"
03050207	01	09	10,103	15.79	-81° 12' 17"	33° 08' 35"
03050207	01	10	14,992	23.43	-81° 11' 36"	33° 07' 07"
03050207	01	11	23,008	35.95	-81° 11' 30"	33° 07' 06"
03050207	02	01	38,733	60.52	-81° 06' 50"	32° 57' 37"
03050207	02	02	17,817	27.84	-81° 06' 49"	32° 57' 37"
03050207	02	03	30,211	47.20	-80° 59' 23"	32° 54' 22"
03050207	03	01	13,415	20.96	-81° 03' 51"	33° 16' 24"
03050207	03	02	30,839	48.19	-80° 57' 36"	33° 09' 44"
03050207	04	01	17,562	27.44	-81° 10' 49"	33° 17' 23"
03050207	04	02	18,309	28.61	-81° 01' 08"	33° 09' 12"
03050207	04	03	34,283	53.57	-80° 57' 37"	33° 09' 44"
03050207	05	01	8,784	13.73	-80° 54' 00"	33° 03' 17"
03050207	05	02	26,135	40.84	-80° 54' 13"	33° 03' 14"
03050207	05	03	29,960	46.81	-80° 47' 50"	33° 02' 16"
03050207	05	04	21,074	32.93	-80° 52' 00"	33° 00' 05"
03050207	05	05	37,493	58.58	-80° 52' 30"	32° 56' 17"
03050207	05	06	16,997	26.56	-80° 52' 29"	32° 56' 17"
03050207	05	07	15,806	24.70	-80° 52' 05"	32° 54' 17"
03050207	05	08	27,034	42.24	-80° 52' 47"	32° 47' 32"
03050207	06	01	10,125	15.82	-81° 05' 35"	33° 02' 52"
03050207	06	02	7,788	12.17	-81° 03' 48"	33° 01' 12"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050207	06	03	33,018	51.59	-81° 03' 11"	32° 59' 23"
03050207	06	04	11,330	17.70	-80° 55' 25"	32° 52' 00"
03050207	06	05	12,567	19.64	-80° 54' 00"	32° 47' 33"
03050207	06	06	26,623	41.60	-80° 52' 48"	32° 47' 31"
03050207	07	01	21,094	32.96	-80° 51' 39"	32° 45' 46"
03050207	07	02	18,354	28.68	-80° 49' 37"	32° 42' 24"
03050207	07	03	36,493	57.02	-80° 41' 13"	32° 40' 25"
03050207	07	04	36,579	57.15	-80° 40' 57"	32° 39' 09"
03050207	07	05	27,894	43.58	-80° 32' 36"	32° 33' 18"
03050207	07	06	26,548	41.48	-80° 30' 46"	32° 30' 53"
03050207	08	01	15,427	24.10	-80° 40' 46"	32° 52' 44"
03050207	08	02	29,900	46.72	-80° 42' 14"	32° 54' 25"
03050207	08	03	22,703	35.47	-80° 40' 46"	32° 52' 44"
03050207	08	04	23,254	36.33	-80° 40' 23"	32° 48' 01"
03050207	09	01	15,158	23.68	-80° 31' 51"	32° 48' 59"
03050207	09	02	26,244	41.01	-80° 32' 36"	32° 45' 53"
03050207	09	03	40,872	63.86	-80° 33' 28"	32° 44' 47"
03050207	10	01	19,338	30.22	-80° 33' 28"	32° 44' 45"
03050207	10	02	27,881	43.56	-80° 29' 20"	32° 39' 43"
03050207	10	03	33,931	53.02	-80° 26' 04"	32° 29' 05"
03050207	11	01	30,258	47.28	-80° 33' 28"	32° 30' 22"
03050207	11	02	29,115	45.49	Undefined	Undefined
03050207	11	03	32,024	50.04	Undefined	Undefined
03050207	11	04	17,764	27.76	Undefined	Undefined
03050207	11	06	23,841	37.25	Undefined	Undefined
03050208	01	01	9,226	14.42	-81° 10' 37"	32° 49' 40"
03050208	01	02	31,104	48.60	-81° 09' 13"	32° 50' 27"
03050208	02	01	8,852	13.83	-81° 16' 34"	32° 55' 56"
03050208	02	02	25,857	40.40	-81° 16' 44"	32° 55' 58"
03050208	02	03	15,861	24.78	-81° 14' 24"	32° 54' 27"
03050208	02	04	29,984	46.85	-81° 09' 12"	32° 50' 28"
03050208	03	01	25,179	39.34	-81° 06' 07"	32° 41' 26"
03050208	03	02	28,903	45.16	-80° 58' 05"	32° 42' 12"
03050208	04	01	13,366	20.88	-81° 05' 37"	32° 48' 40"
03050208	04	02	18,167	28.39	-81° 02' 55"	32° 47' 23"
03050208	04	03	13,068	20.42	-81° 02' 54"	32° 47' 24"
03050208	04	04	25,338	39.59	-80° 58' 04"	32° 42' 12"
03050208	04	05	10,515	16.43	-80° 57' 27"	32° 38' 32"
03050208	04	06	23,242	36.32	-80° 53' 27"	32° 32' 38"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03050208	04	07	36,133	56.46	-80° 51' 01"	32° 31' 49"
03050208	05	01	9,866	15.42	Undefined	Undefined
03050208	05	02	18,462	28.85	Undefined	Undefined
03050208	05	03	27,939	43.65	Undefined	Undefined
03050208	06	01	32,000	50.00	-80° 50' 48"	32° 31' 54"
03050208	06	02	15,188	23.73	-80° 45' 11"	32° 32' 36"
03050208	06	03	12,120	18.94	-80° 48' 43"	32° 29' 19"
03050208	06	04	25,927	40.51	Undefined	Undefined
03050208	06	05	28,453	44.46	Undefined	Undefined
03050208	06	06	38,031	59.42	Undefined	Undefined
03050208	06	07	43,017	67.21	Undefined	Undefined
03050208	06	08	31,866	49.79	Undefined	Undefined
03050208	06	09	41,557	64.93	Undefined	Undefined
03050209	01	01	31,759	49.62	Undefined	Undefined
03050209	01	02	51,733	80.83	Undefined	Undefined
03050209	02	01	25,676	40.12	Undefined	Undefined
03050209	02	02	43,691	68.27	Undefined	Undefined
03050209	02	03	31,447	49.14	Undefined	Undefined
03050209	02	04	8,151	12.74	Undefined	Undefined
03050209	02	05	55,505	86.73	Undefined	Undefined
03050209	02	06	29,975	46.84	Undefined	Undefined
03050209	02	07	21,480	33.56	Undefined	Undefined
03050210	01	01	11,616	18.15	Undefined	Undefined
03050210	01	02	34,793	54.36	Undefined	Undefined
03050210	01	03	21,070	32.92	Undefined	Undefined
03050210	01	04	50,902	79.53	Undefined	Undefined
03060101	01	02	16,103	25.16	-82° 54' 57"	35° 01' 48"
03060101	01	03	22,927	35.82	-82° 55' 03"	35° 01' 40"
03060101	01	04	31,924	49.88	-82° 56' 03"	34° 58' 34"
03060101	01	05	7,298	11.40	-82° 55' 08"	34° 57' 35"
03060101	02	01	10,112	15.80	-82° 54' 14"	34° 55' 37"
03060101	02	02	31,794	49.68	-82° 54' 14"	34° 55' 37"
03060101	02	03	14,710	22.98	-82° 54' 02"	34° 51' 19"
03060101	02	04	23,315	36.43	-82° 53' 18"	34° 47' 59"
03060101	03	01	21,604	33.76	-82° 58' 54"	34° 51' 19"
03060101	03	02	13,897	21.71	-82° 59' 00"	34° 50' 29"
03060101	03	03	9,987	15.60	-82° 59' 01"	34° 50' 29"
03060101	03	04	13,795	21.55	-82° 54' 37"	34° 47' 57"
03060101	03	05	32,187	50.29	-82° 54' 52"	34° 43' 51"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03060101	03	06	13,529	21.14	-82° 54' 47"	34° 43' 43"
03060101	04	01	11,948	18.67	-82° 44' 24"	34° 54' 07"
03060101	04	02	9,861	15.41	-82° 44' 23"	34° 54' 06"
03060101	04	03	9,463	14.79	-82° 44' 34"	34° 52' 58"
03060101	04	04	10,136	15.84	-82° 44' 30"	34° 51' 11"
03060101	04	05	10,142	15.85	-82° 44' 40"	34° 48' 40"
03060101	04	06	10,241	16.00	-82° 45' 17"	34° 46' 48"
03060101	04	07	16,344	25.54	-82° 45' 17"	34° 46' 49"
03060101	04	08	20,816	32.53	-82° 50' 56"	34° 41' 46"
03060101	05	01	11,308	17.67	-83° 04' 48"	34° 43' 27"
03060101	05	02	36,653	57.27	-82° 58' 10"	34° 38' 07"
03060101	05	03	20,162	31.50	-82° 51' 32"	34° 35' 40"
03060101	06	01	22,158	34.62	-82° 45' 25"	34° 42' 17"
03060101	06	02	15,943	24.91	-82° 49' 54"	34° 33' 51"
03060101	07	01	29,756	46.49	-82° 42' 13"	34° 38' 58"
03060101	07	02	29,262	45.72	-82° 47' 01"	34° 31' 24"
03060101	07	03	19,124	29.88	-82° 39' 29"	34° 35' 54"
03060101	07	04	27,599	43.12	-82° 48' 38"	34° 30' 17"
03060101	08	01	9,004	14.07	-82° 51' 52"	34° 44' 06"
03060101	08	02	14,780	23.09	-82° 50' 58"	34° 41' 45"
03060101	08	03	29,956	46.81	-82° 49' 55"	34° 33' 49"
03060101	08	04	14,345	22.41	-82° 51' 20"	34° 26' 38"
03060102	02	03	8,645	13.51	Undefined	Undefined
03060102	02	04	24,521	38.31	-83° 10' 13"	34° 55' 00"
03060102	02	09	28,249	44.14	-83° 19' 26"	34° 47' 23"
03060102	02	10	20,231	31.61	-83° 21' 07"	34° 42' 52"
03060102	03	01	16,514	25.80	-83° 10' 29"	34° 50' 00"
03060102	03	02	16,109	25.17	-83° 11' 50"	34° 45' 27"
03060102	03	03	13,963	21.82	-83° 10' 25"	34° 38' 14"
03060102	03	04	24,190	37.80	-83° 09' 46"	34° 36' 16"
03060102	04	03	43,527	68.01	-83° 09' 46"	34° 36' 15"
03060102	05	02	24,566	38.38	-83° 05' 27"	34° 31' 59"
03060102	05	05	22,902	35.78	-82° 53' 55"	34° 29' 02"
03060102	05	06	16,095	25.15	-82° 51' 21"	34° 26' 40"
03060102	05	07	59,664	93.23	-82° 51' 23"	34° 26' 38"
03060103	01	01	50,005	78.13	-82° 49' 16"	34° 21' 31"
03060103	02	01	21,327	33.32	-82° 35' 18"	34° 32' 47"
03060103	02	02	28,785	44.98	-82° 35' 17"	34° 26' 52"
03060103	02	03	32,954	51.49	-82° 34' 14"	34° 21' 23"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03060103	02	04	18,786	29.35	-82° 34' 13"	34° 21' 24"
03060103	02	05	23,467	36.67	-82° 36' 36"	34° 15' 27"
03060103	02	06	24,706	38.60	-82° 37' 23"	34° 14' 48"
03060103	02	07	28,157	44.00	-82° 38' 26"	34° 05' 27"
03060103	04	01	38,371	59.95	-82° 46' 38"	34° 23' 44"
03060103	04	02	14,674	22.93	-82° 47' 40"	34° 20' 27"
03060103	04	04	21,825	34.10	-82° 44' 32"	34° 15' 00"
03060103	04	05	12,630	19.73	-82° 44' 42"	34° 14' 59"
03060103	04	10	32,579	50.90	-82° 38' 34"	34° 05' 21"
03060103	04	11	10,357	16.18	-82° 35' 59"	34° 01' 34"
03060103	05	01	16,938	26.47	-82° 18' 21"	34° 14' 36"
03060103	05	02	9,251	14.45	-82° 18' 26"	34° 16' 35"
03060103	05	03	9,185	14.35	-82° 18' 08"	34° 11' 48"
03060103	05	04	6,359	9.94	-82° 19' 09"	34° 09' 14"
03060103	05	05	11,818	18.47	-82° 19' 41"	34° 07' 40"
03060103	05	06	17,117	26.75	-82° 19' 41"	34° 07' 40"
03060103	05	07	20,938	32.72	-82° 19' 07"	34° 05' 40"
03060103	05	08	16,467	25.73	-82° 20' 26"	34° 01' 30"
03060103	05	09	8,773	13.71	-82° 22' 53"	33° 58' 20"
03060103	05	10	29,156	45.56	-82° 23' 36"	33° 56' 03"
03060103	06	01	11,977	18.71	-82° 26' 07"	34° 18' 04"
03060103	06	02	28,924	45.19	-82° 26' 08"	34° 18' 04"
03060103	06	03	6,409	10.01	-82° 26' 28"	34° 17' 17"
03060103	06	04	14,263	22.29	-82° 27' 41"	34° 15' 14"
03060103	06	05	13,514	21.12	-82° 28' 02"	34° 13' 55"
03060103	06	06	10,368	16.20	-82° 29' 49"	34° 11' 03"
03060103	06	07	9,402	14.69	-82° 31' 09"	34° 08' 44"
03060103	06	08	23,183	36.22	-82° 30' 39"	34° 05' 42"
03060103	06	09	8,231	12.86	-82° 29' 26"	34° 03' 09"
03060103	06	10	17,622	27.53	-82° 28' 03"	34° 08' 46"
03060103	06	11	23,568	36.83	-82° 28' 26"	34° 02' 18"
03060103	06	12	22,253	34.77	-82° 28' 27"	34° 02' 18"
03060103	06	13	27,601	43.13	-82° 23' 41"	33° 55' 52"
03060103	06	14	19,476	30.43	-82° 21' 19"	33° 50' 17"
03060103	07	07	20,690	32.33	-82° 21' 24"	33° 50' 14"
03060103	07	08	53,581	83.72	-82° 21' 24"	33° 50' 18"
03060103	07	09	60,832	95.05	-82° 12' 01"	33° 39' 41"
03060105	04	04	34,740	54.28	Undefined	Undefined
03060106	01	05	31,865	49.79	-82° 02' 55"	33° 33' 51"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03060106	02	01	21,697	33.90	-81° 48' 24"	33° 36' 46"
03060106	02	02	16,412	25.64	-81° 48' 26"	33° 34' 29"
03060106	02	03	19,157	29.93	-81° 50' 43"	33° 31' 14"
03060106	02	04	29,508	46.11	-81° 53' 17"	33° 29' 48"
03060106	02	05	16,624	25.98	-81° 55' 26"	33° 27' 38"
03060106	04	01	24,404	38.13	-81° 48' 17"	33° 22' 22"
03060106	04	02	27,910	43.61	-81° 48' 16"	33° 22' 22"
03060106	04	03	18,984	29.66	-81° 51' 58"	33° 18' 50"
03060106	05	01	22,262	34.78	-81° 36' 31"	33° 25' 08"
03060106	05	02	21,763	34.00	-81° 36' 30"	33° 25' 07"
03060106	05	03	33,646	52.57	-81° 38' 35"	33° 19' 11"
03060106	05	04	10,814	16.90	-81° 41' 45"	33° 17' 09"
03060106	05	05	34,152	53.36	-81° 41' 44"	33° 17' 06"
03060106	05	06	34,883	54.50	-81° 46' 26"	33° 13' 15"
03060106	06	01	48,678	76.06	-81° 55' 29"	33° 27' 35"
03060106	06	07	71,071	111.05	-81° 46' 25"	33° 13' 14"
03060106	07	01	22,316	34.87	-81° 31' 01"	33° 14' 08"
03060106	07	02	27,111	42.36	-81° 27' 07"	33° 04' 55"
03060106	07	03	39,817	62.21	-81° 27' 11"	33° 04' 54"
03060106	07	04	10,338	16.15	-81° 29' 38"	33° 03' 55"
03060106	07	05	11,201	17.50	-81° 30' 48"	33° 01' 46"
03060106	08	01	14,356	22.43	-81° 45' 39"	33° 09' 27"
03060106	08	03	14,578	22.78	-81° 42' 31"	33° 07' 14"
03060106	08	04	23,066	36.04	-81° 37' 02"	33° 05' 47"
03060106	08	05	36,158	56.50	-81° 37' 04"	33° 05' 46"
03060106	08	06	38,665	60.41	-81° 30' 50"	33° 01' 43"
03060106	09	02	11,292	17.64	-81° 30' 07"	32° 56' 18"
03060106	09	03	11,055	17.27	-81° 27' 07"	32° 52' 19"
03060106	09	04	9,607	15.01	-81° 27' 05"	32° 52' 10"
03060106	09	05	69,057	107.90	-81° 25' 32"	32° 47' 41"
03060107	01	01	23,997	37.50	-82° 11' 44"	34° 03' 52"
03060107	01	02	17,032	26.61	-82° 12' 34"	34° 00' 54"
03060107	01	03	17,245	26.95	-82° 13' 09"	33° 53' 52"
03060107	01	04	7,771	12.14	-82° 05' 32"	34° 00' 23"
03060107	01	05	22,789	35.61	-82° 05' 31"	34° 00' 21"
03060107	01	06	28,587	44.67	-82° 13' 08"	33° 53' 52"
03060107	01	07	17,003	26.57	-82° 14' 03"	33° 52' 53"
03060107	01	08	24,799	38.75	-82° 10' 00"	33° 46' 19"
03060107	02	01	17,979	28.09	-81° 58' 32"	33° 53' 49"

Table 1. The 12-digit hydrologic unit codes, drainage areas, and outlet locations for subwatersheds in South Carolina. — Continued

[mi², square mile; NAD 83, North American Datum of 1983]

Subbasin code	Watershed code	Subwatershed code	Drainage area (acres)	Drainage area (mi²)	Outlet location (NAD 83)	
					Longitude	Latitude
03060107	02	02	28,400	44.38	-81° 58' 48"	33° 53' 42"
03060107	02	03	24,309	37.98	-81° 58' 47"	33° 53' 40"
03060107	02	04	16,793	26.24	-82° 01' 15"	33° 53' 21"
03060107	02	05	15,541	24.28	-82° 02' 21"	33° 52' 47"
03060107	02	06	13,502	21.10	-82° 04' 30"	33° 51' 28"
03060107	02	07	27,934	43.65	-82° 08' 19"	33° 48' 05"
03060107	02	08	38,210	59.70	-82° 09' 59"	33° 46' 18"
03060107	03	01	10,021	15.66	-82° 09' 13"	33° 41' 28"
03060107	03	02	8,155	12.74	-82° 07' 37"	33° 39' 32"
03060107	03	03	15,942	24.91	-82° 07' 40"	33° 39' 31"
03060107	03	04	12,664	19.79	-82° 00' 25"	33° 43' 30"
03060107	03	05	37,528	58.64	-82° 04' 22"	33° 38' 24"
03060107	03	06	24,684	38.57	-82° 02' 21"	33° 37' 47"
03060107	03	07	22,522	35.19	-82° 02' 51"	33° 34' 04"
03060109	01	02	11,315	17.68	-81° 23' 51"	32° 44' 02"
03060109	01	03	48,267	75.42	-81° 24' 16"	32° 40' 04"
03060109	01	05	38,118	59.56	-81° 17' 59"	32° 33' 49"
03060109	01	06	22,886	35.76	-81° 17' 58"	32° 33' 47"
03060109	03	01	42,298	66.09	-81° 10' 53"	32° 22' 50"
03060109	04	01	9,922	15.50	-81° 11' 05"	32° 31' 49"
03060109	04	02	29,687	46.39	-81° 11' 20"	32° 30' 54"
03060109	04	03	16,843	26.32	-81° 08' 39"	32° 21' 07"
03060109	04	04	21,445	33.51	-81° 07' 52"	32° 20' 32"
03060109	04	05	56,308	87.98	-81° 09' 10"	32° 13' 17"
03060109	04	06	27,034	42.24	-80° 54' 29"	32° 03' 00"
03060109	04	07	121,840	190.38	Undefined	Undefined
03060109	04	08	4,565	7.13	Undefined	Undefined
03060110	01	01	23,945	37.41	Undefined	Undefined
03060110	01	02	23,517	36.75	Undefined	Undefined
03060110	01	03	34,485	53.88	Undefined	Undefined
03060110	02	01	34,901	54.53	Undefined	Undefined
03060110	02	02	32,188	50.29	Undefined	Undefined
03060110	03	01	25,971	40.58	Undefined	Undefined
03060110	03	02	15,276	23.87	Undefined	Undefined
03060110	03	03	13,444	21.01	Undefined	Undefined
03060110	03	04	24,126	37.70	Undefined	Undefined
03060110	03	05	30,966	48.38	Undefined	Undefined
03060110	03	06	16,068	25.11	Undefined	Undefined