

# State Specific Training Module for South Carolina

2023

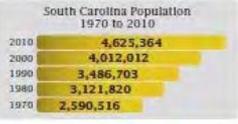
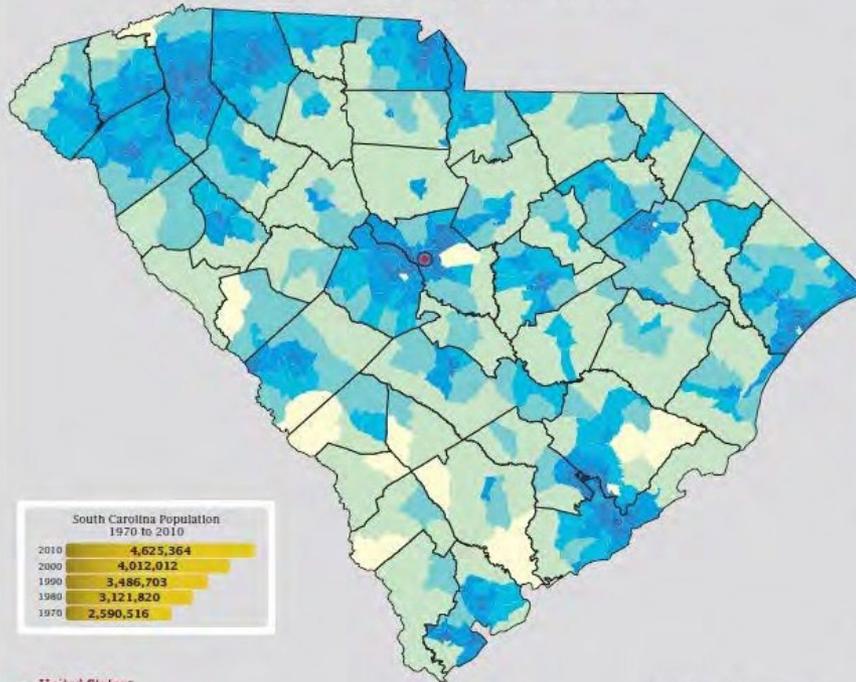
## **Purpose of this Module**

This module will provide general information a Technical Service Provider (TSP) needs to be knowledgeable of regarding conservation planning in South Carolina. This information is general in nature. Additional training may be needed to increase certain knowledge and skills; licenses and certifications may be required to conduct conservation planning within the state.

# Overview of South Carolina

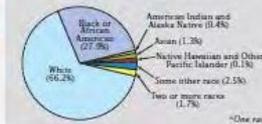
## 2010 Census: South Carolina Profile

Population Density by Census Tract



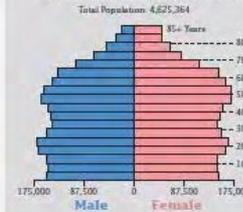
U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

State Race\* Breakdown



Hispanic or Latino (of any race) makes up **5.1%** of the state population.

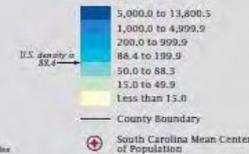
Population by Sex and Age



Housing Tenure



People per Square Mile by Census Tract

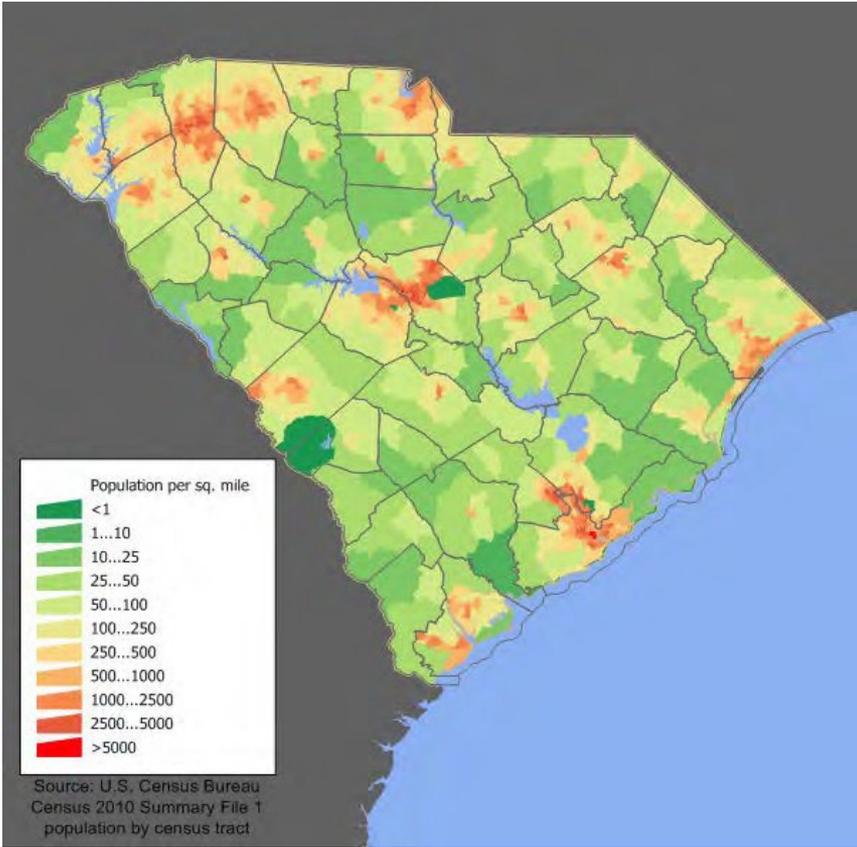


## SC Federally Recognized Tribes

The Catawba Indian Nation is the only federally recognized tribe in the state of South Carolina.

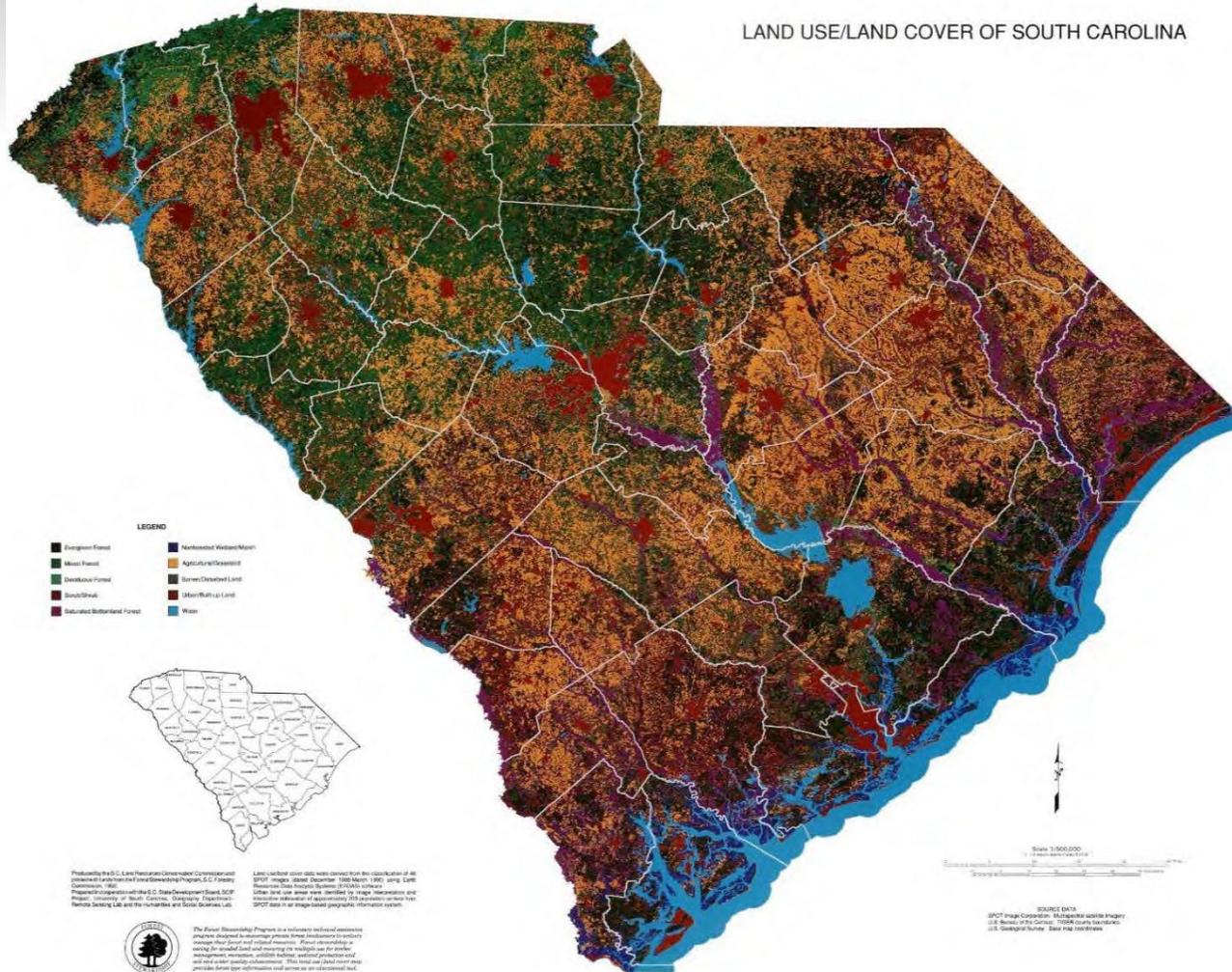
<http://catawbaindian.net/>

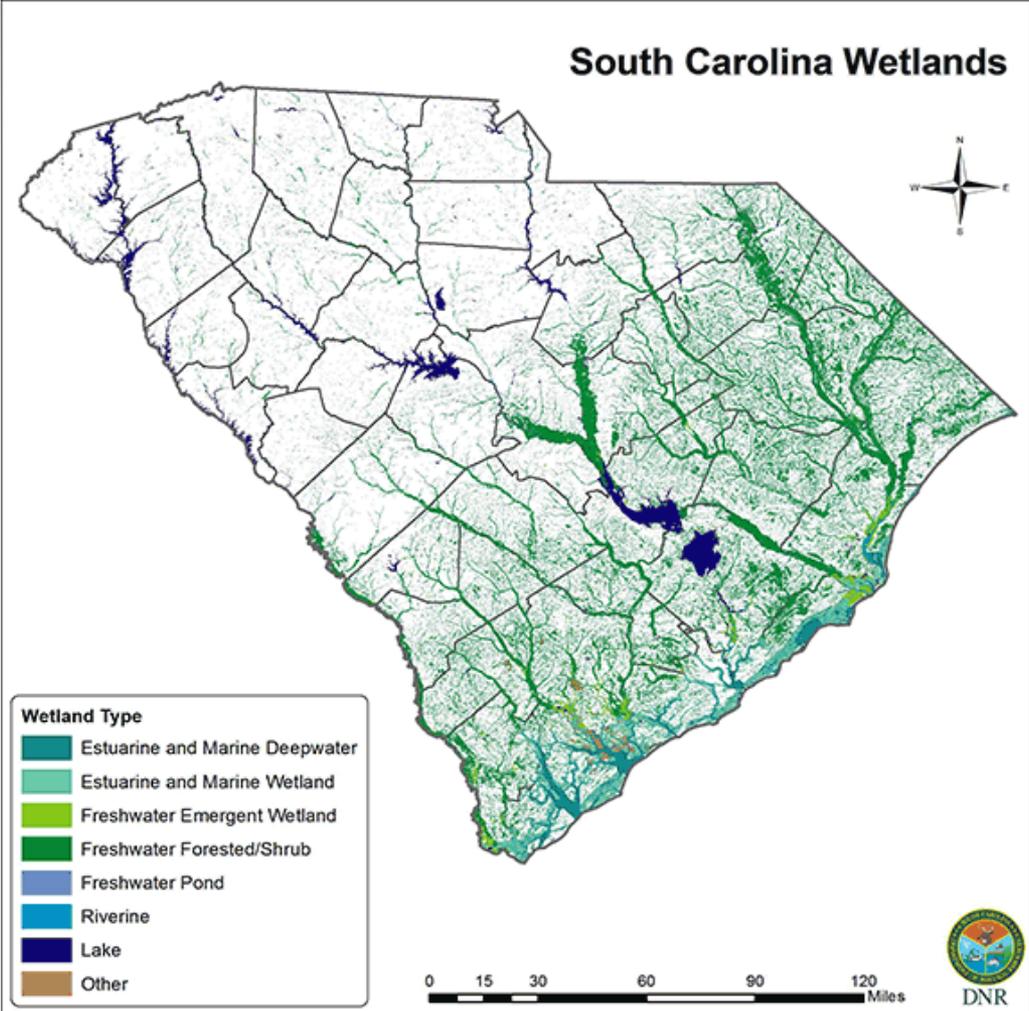
# Population Per Square Mile



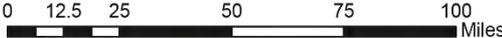
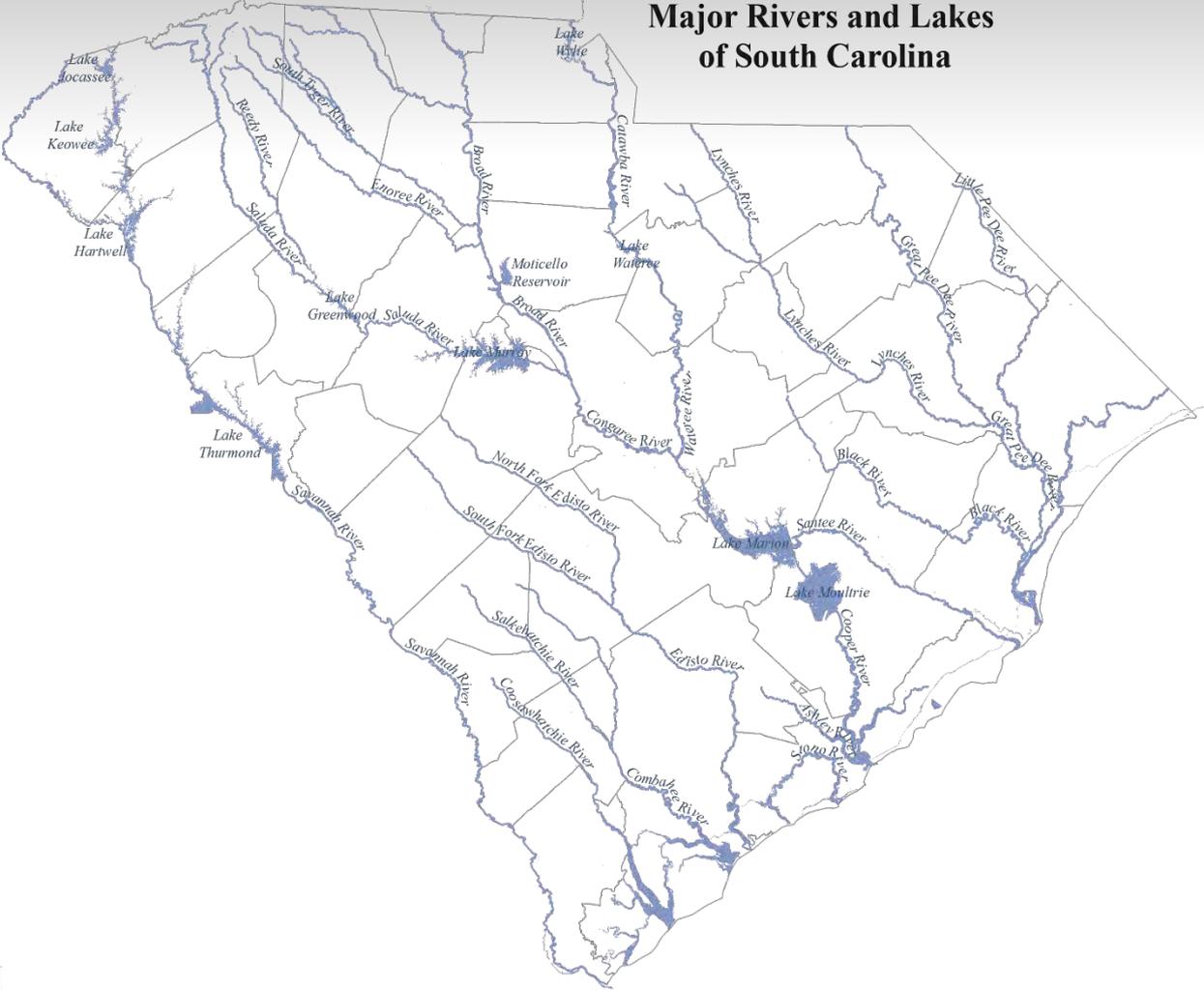


LAND USE/LAND COVER OF SOUTH CAROLINA

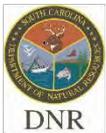
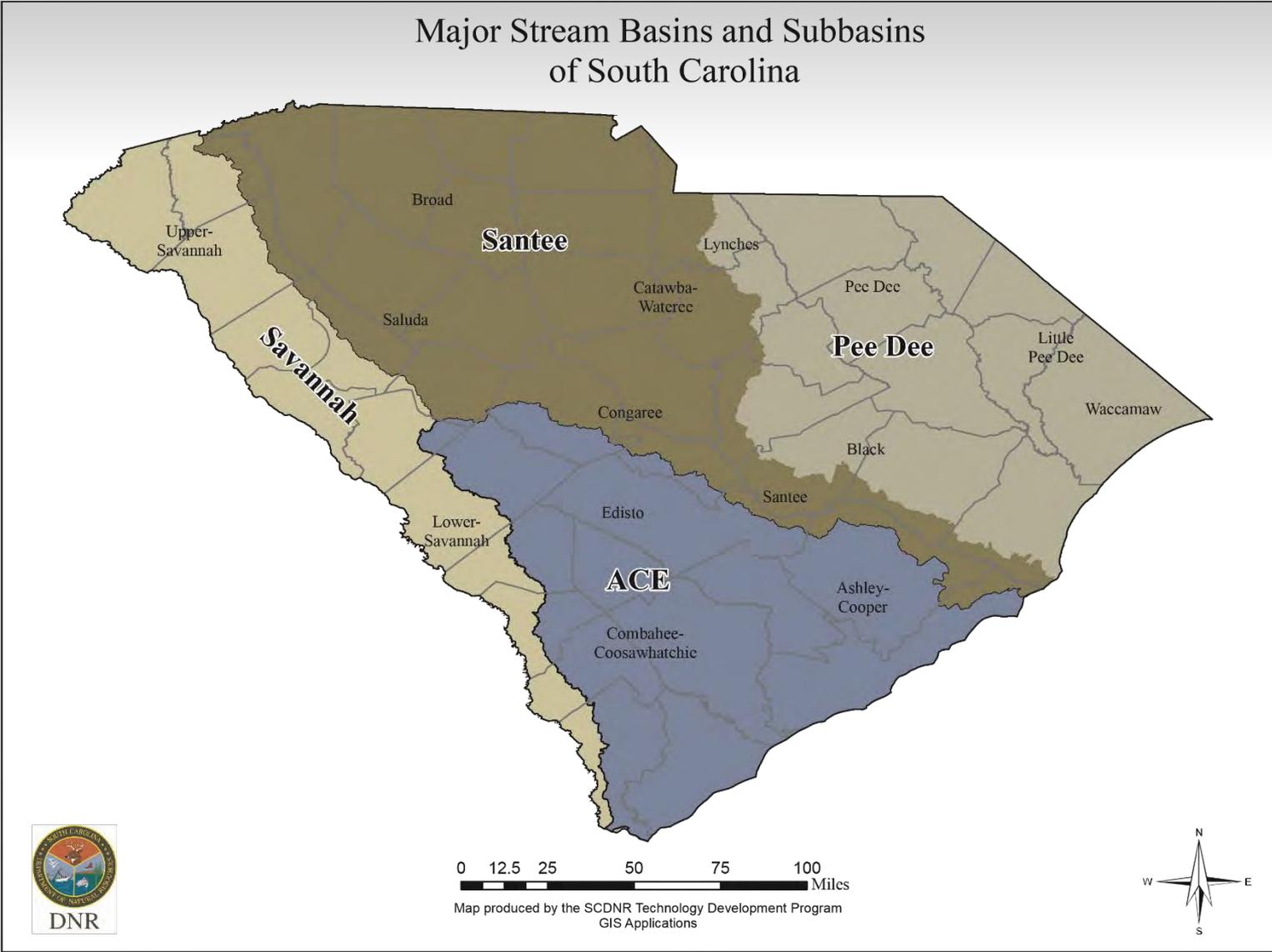




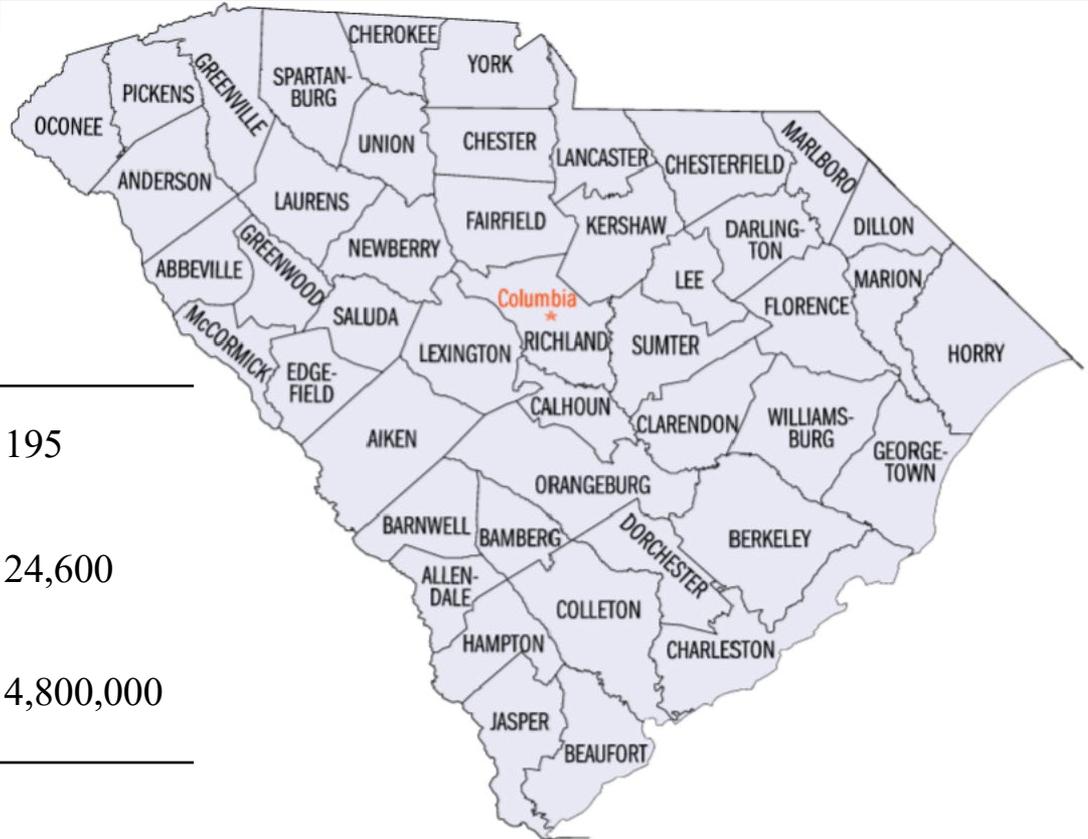
### Major Rivers and Lakes of South Carolina



### Major Stream Basins and Subbasins of South Carolina



# South Carolina Agricultural Production



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|   |           |
|---|-----------|
| Farm Operations - Area Operated,<br>Measured in Acres / Operation | 195       |
| Farm Operations - Number of<br>Operations                         | 24,600    |
| Farm Operations - Acres Operated                                  | 4,800,000 |

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For details:

[http://www.nass.usda.gov/Quick\\_Stats/Ag\\_Overview/stateOverview.php?state=SOUTH%20CAROLINA](http://www.nass.usda.gov/Quick_Stats/Ag_Overview/stateOverview.php?state=SOUTH%20CAROLINA)

## South Carolina Top Crop Items (acres)

- Soybeans for beans
- Forage-land used for hay, grass silage, and green chop
- Corn for grain
- Cotton

For details:

[http://www.nass.usda.gov/Quick\\_Stats/Ag\\_Overview/stateOverview.php?state=SOUTH%20CAROLINA](http://www.nass.usda.gov/Quick_Stats/Ag_Overview/stateOverview.php?state=SOUTH%20CAROLINA)



# South Carolina Top Livestock Items (numbers)

## Livestock Inventory (Dec 31, 2017)

|  |            |
|--|------------|
| Broilers and other<br>meat-type chickens | 49,969,013 |
| Cattle and calves                        | 326,114    |
| Goats                                    | 40,726     |
| Hogs and pigs                            | 183,069    |
| Horses and ponies                        | 42,181     |
| Layers                                   | 4,002,121  |
| Pullets                                  | 1,711,421  |
| Sheep and lambs                          | 12,627     |
| Turkeys                                  | 7,528,303  |

For details.

[http://www.nass.usda.gov/Quick\\_Stats/Ag\\_Overview/stateOverview.php?state=SOUTH%20CAROLINA](http://www.nass.usda.gov/Quick_Stats/Ag_Overview/stateOverview.php?state=SOUTH%20CAROLINA)

## Forestry of South Carolina



- 13.1 million acres of forestland. This is 68% of the state's total land area.
- Hardwood timber types occupy over 53% and softwood comprises 47% of the state's forestland.
- 88% of SC's forestland is privately owned.

For details:

<http://www.state.sc.us/forest/scfifacts.pdf>

# Forestry Management in South Carolina

- South Carolina's Best Management Practices For Forestry:  
<http://www.state.sc.us/forest/menvir.htm>
- Forest Health:  
<http://www.state.sc.us/forest/id.htm>
- Forest Protection:  
<http://www.state.sc.us/forest/fire.htm>

## Review of Important Resource Issues

The Longleaf restoration initiative is very important to SC NRCS. Conservation plans that include tree planting should consider longleaf if the soils are conducive.

<https://www.nrcs.usda.gov/programs-initiatives/longleaf-pine-initiative>



The Gopher Tortoise Conservation Initiative:  
<https://www.dnr.sc.gov/swap/conserves/gophertortoise.html>



# Review of Important Resource Issues

## National Bobwhite Conservation Initiative

The bobwhite quail population has declined from an estimated 59 million birds in 1980 to about 20 million in 1999. Their habitats are disappearing due to urbanization, increased grassland cultivation, and a transitioning of once grassy fields into woods and forests -- a process called succession.

For details:

- <http://bringbackbobwhites.org/>
- Northern Bobwhite Habitat Restoration in SC

[http://bringbackbobwhites.org/strategy/nbci-2-0/doc\\_view/169-northern-bobwhite-habitat-restoration-in-south-carolina-2013](http://bringbackbobwhites.org/strategy/nbci-2-0/doc_view/169-northern-bobwhite-habitat-restoration-in-south-carolina-2013)



# Review of Important Resource Issues

## Threatened and Endangered Species

- TSP's preparing conservation plans must be familiar with South Carolina's Threatened and Endangered Species.
- SCDNR:  
<https://experience.arcgis.com/experience/af61ba156d054cc7b3e27d09a0c35c0f>

U.S. Fish and Wildlife:

<https://www.fws.gov/>

- Clemson Extension Service:  
<https://www.clemson.edu/degrees/wildlife-fisheries-biology>



**Red-cockaded Woodpecker**



**Spotted Turtle**

# Review of Important Resource Issues

- Invasive Plant Species

[https://www.clemson.edu/public/regulatory/plant-industry/plant-pest-regulations/state-plant-pest-information/pests\\_list.html](https://www.clemson.edu/public/regulatory/plant-industry/plant-pest-regulations/state-plant-pest-information/pests_list.html)



**Kudzu**

- Feral Hog Management

[http://www.aphis.usda.gov/wps/portal/aphis/ourfocus/wildlifedamage?1dmy&urile=wcm%3apath%3a%2Faphis\\_content\\_library%2Fsa\\_our\\_focus%2Fsa\\_wildlife\\_damage%2Fsa\\_operational\\_activities%2Fsa\\_feral\\_swine%2Fct\\_feral\\_swine](http://www.aphis.usda.gov/wps/portal/aphis/ourfocus/wildlifedamage?1dmy&urile=wcm%3apath%3a%2Faphis_content_library%2Fsa_our_focus%2Fsa_wildlife_damage%2Fsa_operational_activities%2Fsa_feral_swine%2Fct_feral_swine)



**Wild Boar**

## Review of Important Resource Issues

- 303 (d) list of impaired waterbodies. All states are required to develop a list of waterbodies that do not meet water quality standards. This requirement comes from Section 303(d) of the Clean Water Act <http://www.scdhec.gov/HomeAndEnvironment/Water/ImpairedWaters/Overview/>
- USDA Southeast Regional Climate Hub <http://climatehubs.oce.usda.gov/southeast>



**Kudzu**



**Wild Boar**

## **Some South Carolina laws, concerns, registration, and training significant for conservation planning:**

- South Carolina Underground Facility Damage Prevention Act  
<http://sc811.com/resources/law/>
- A South Carolina State Statute engineering license is needed for designing conservation engineering practices—for details:  
<http://www.llr.state.sc.us/POL/Engineers/>
- South Carolina Board of Registration for foresters – for details:  
<https://llr.sc.gov/for/>
- Confined Animal Manure Managers Program:  
<http://www.Clemson.edu/extension/livestock/camm/>

## **Some South Carolina laws, concerns, registration, and training significant for conservation planning:**

- South Carolina Field Office Technical Guide <http://efotg.sc.egov.usda.gov/>
  - Section I
    - Threatened and Endangered Species, Invasive Species
  - Section II
    - Cultural Resources, Soils Information
  - Section III
    - Planning Criteria
  - Section IV
    - Conservation Practice Standards, Job Sheets, Conservation Planning Tools
  - Section V
    - Conservation Practice Physical Effects

## State license, registration or certification requirements Most Common SC Conservation Activity Plans

| Practice                                      | Practice Code | Requirement   |
|---|---------------|---|
| Agricultural Energy Design                    | DIA 120       | Professional Engineer (Mandatory)                     |
| Comprehensive Nutrient Management Plan (CNMP) | CPA 102       | Professional Engineer (Mandatory)                     |
| Forest Management Plan                        | CPA 106       | Registered Professional Forester (Optional)           |
| Irrigation Water Management Design            | DIA 163       | Professional Engineer (Optional)                      |
| Nutrient Management Design and Implem.        | DIA 157       | Professional Engineer (Optional)                      |
| Prescribed Burning Design                     | DIA 160       | Trained Certified Prescribed Fire Manager (Preferred) |

# Common SC Conservation Practices

South Carolina program participants usually seek assistance on Forestland, Cropland, and Pastureland. These are the most commonly utilized NRCS Practices in South Carolina:

|  |                                 |
|--|---------------------------------|
| 313 Waste Storage Facility                     | 394 Firebreak                   |
| 316 Animal Mortality Facility                  | 490 Tree/Shrub Site Preparation |
| 327 Conservation Cover                         | 512 Forage and Biomass Planting |
| 328 Conservation Crop Rotation                 | 516 Livestock Pipeline          |
| 329 Residue and Tillage Management,<br>No-Till | 590 Nutrient Management         |
| 338 Prescribed Burning                         | 614 Watering Facility           |
| 340 Cover Crop                                 | 612 Tree/Shrub Establishment    |
| 382 Fence                                      | 666 Forest Stand Improvement    |

## Expected TSP Workflow

- The State Resource Conservationist (SRC) will provide oversight for reviewing TSP conservation planning for the National Planner Certification.
  - South Carolina conservation plans will be submitted to State TSP coordinator for technical review.
  - Technical specialists will review the sample plan for adequacy and quality.
- The State TSP coordinator will conduct plan reviews for TSP planner certification renewals.
- TSPs will work with the local field office (District Conservationist ) to ensure proper environmental evaluations (NRCS-CPA-52) are completed according to South Carolina-NRCS policy.

# Key Personnel

| Name            | Title                          | Contact information  |
|-----------------|--------------------------------|--|
| Terence T Kelly | State Resource Conservationist | (803) 765-5685<br><a href="mailto:Terry.kelly@usda.gov">Terry.kelly@usda.gov</a>           |
| Jonathan Todd   | Area II Engineer               | (803) 765-5683<br><a href="mailto:Jonathan.Todd@usda.gov">Jonathan.Todd@usda.gov</a>       |
| Scott Glen      | Area I Engineer                | (803) 765-5350<br><a href="mailto:Scott.glen@usda.gov">Scott.glen@usda.gov</a>             |
| Kristine.Ryan   | State Soil Scientist           | (803) 765-5685<br><a href="mailto:Kristine.ryan@sc.usda.gov">Kristine.ryan@sc.usda.gov</a> |
| Sylvia Harris   | State Biologist                | (803) 253-3948<br><a href="mailto:Sylvia.harris2@usda.gov">Sylvia.harris2@usda.gov</a>     |
| Mark Reynolds   | State Grazing Land Specialist  | (803) 253-3930<br><a href="mailto:Mark.Reynolds@usda.gov">Mark.Reynolds@usda.gov</a>       |
| Gordon Mikell   | Conservation Agronomist        | (803) 253-3893<br><a href="mailto:gordon.mikell@usda.gov">gordon.mikell@usda.gov</a>       |
| Eddie Reese     | State Forester                 | (803) 253-3229<br><a href="mailto:Eddie.reese@usda.gov">Eddie.reese@usda.gov</a>           |
| Jim Errante     | Cultural Resources Specialist  | (803) 253-3937<br><a href="mailto:jim.errante@sc.usda.gov">jim.errante@sc.usda.gov</a>     |

# Certificate of Completion

After viewing the State Specific Training module, please print and sign the completion certificate on the following slide.

The certificate is your acknowledgement that based on the information provided in this module, you have the proper knowledge, skills and ability to conduct planning in this state.

Send the signed certificate to the State TSP Coordinator. Copy the below link to your browser for a list of State TSP Coordinators.

<https://www.nrcs.usda.gov/getting-assistance/technical-assistance/technical-service-providers>

## State Specific Training Module Completion Certificate

I, \_\_\_\_\_, hereby verify I have viewed and understand the  
*TSP Name*  
content of South Carolina State Specific Training Module and affirm I  
have the knowledge, skills and ability to conduct conservation  
planning services in that state.

\_\_\_\_\_  
TSP Signature

\_\_\_\_\_  
Date

## **Non-Discrimination Statement**

### **Non-Discrimination Policy**

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees and applicants for employment on the bases of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases apply to all programs and/or employment activities.)

### **To File an Employment Complaint**

If you wish to file an employment complaint, you must contact your agency's EEO Counselor within 45 days of the date of the alleged discriminatory act, event, or in the case of a personnel action. Additional information can be found online at [http://www.ascr.usda.gov/complaint\\_filing\\_file.html](http://www.ascr.usda.gov/complaint_filing_file.html)

### **To File a Program Complaint**

If you wish to file a Civil Rights program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, found online at [http://www.ascr.usda.gov/complaint\\_filing\\_cust.html](http://www.ascr.usda.gov/complaint_filing_cust.html), or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9419, by fax at (202) 690-7442, or email at [program.intake@usda.gov](mailto:program.intake@usda.gov)

## **Non-Discrimination Statement (Continued)**

### **Persons with Disabilities**

Individuals who are deaf, hard of hearing or have speech disabilities and you wish to file either an EEO or program complaint please contact USDA through the Federal Relay Service at (800) 877-8339 or (800) 845-6136 (in Spanish).

Persons with disabilities, who wish to file a program complaint, please see information above on how to contact us by mail or by email. If you require alternative means of communication for program information (e.g., Braille, large print, audiotape, etc.), please contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

### **Supplemental Nutrition Assistance Program**

For any other information dealing with Supplemental Nutrition Assistance Program (SNAP) issues, persons should either contact the USDA SNAP Hotline Number at (800) 221-5689, which is also in Spanish, or call the State Information/Hotline Numbers.

### **All Other Inquires**

For any other information not pertaining to civil rights, please refer to the listing of the USDA Agencies and Offices.