



# Species Modeling Report

# **Snapping Turtle**

Chelydra serpentina

- Taxa: Reptilian
- Order: Cryptodeira
- Family: Chelydridae

# ITIS Species Code: 173752 NatureServe Element Code: ARAAB01010

PREDICTED HABITAT:

SE-GAP Spp Code: rSNTU

# KNOWN RANGE:



 Range Map Link:
 http://www.basic.ncsu.edu/segap/datazip/maps/SE\_Range\_rSNTU.pdf

 Predicted Habitat Map Link:
 http://www.basic.ncsu.edu/segap/datazip/maps/SE\_Dist\_rSNTU.pdf

 GAP Online Tool Link:
 http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=rSNTU

 Data Download:
 http://www.basic.ncsu.edu/segap/datazip/region/vert/rSNTU\_se00.zip

### **PROTECTION STATUS:**

Reported on March 14, 2011

### Federal Status: ---

State Status: AL (PSNG), KY (N), MN (SPC), MS (Non-game species in need of management), ND (Level II), NY (GS), RI (Not Listed), UT (None), ON (SC), QC (Non suivie)

### NS Global Rank: G5

NS State Rank: AL (S5), AR (S5), AZ (SNA), CO (S4), CT (S5), DC (S5), DE (S5), FL (S5), GA (S5), IA (S5), IL (S5), IN (SNR), KS (S5), KY (S5), LA (S5), MA (S5), MD (S5), ME (S5), MI (S5), MN (S3), MO (SNR), MS (S5), MT (S3), NC (S5), ND (SNR), NE (S5), NH (S5), NJ (SNR), NM (S5), NV (SNA), NY (S5), OH (SNR), OK (S5), PA (S5), RI (S5), SC (SNR), SD (S5), TN (S5), TX (S5), UT (SNA), VA (S5), VT (S5), WA (SNA), WI (S4), WV (S5), WY (S4), AB (SNA), BC (SNA), MB (S3), NB (S4), NS (S5), ON (S3), QC (S4), SK (S3)

## SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:

|          | US FWS                |         | US Forest Service     |     | Tenn. Valley Author. |                    | US DOD/ACOE           |              |  |
|----------|-----------------------|---------|-----------------------|-----|----------------------|--------------------|-----------------------|--------------|--|
|          | ha                    | %       | ha                    | %   | ha                   | %                  | ha                    | %            |  |
| Status 1 | 91,665.9              | < 1     | 5,810.3               | < 1 | 0.0                  | 0                  | 0.0                   | 0            |  |
| Status 2 | 188,639.4             | 1       | 35,486.6              | < 1 | 0.0                  | 0                  | 2,093.9               | < 1          |  |
| Status 3 | 1,461.2               | < 1     | 364,966.4             | 2   | 14,622.8             | < 1                | 172,081.4             | 1            |  |
| Status 4 | 41.5                  | < 1     | 0.0                   | 0   | 0.0                  | 0                  | 13.4                  | < 1          |  |
| Total    | 281,808.0             | 2       | 406,263.3             | 2   | 14,622.8             | < 1                | 174,188.6             | 1            |  |
|          |                       |         | I                     |     | I                    |                    |                       |              |  |
|          | US Dept. of Energy    |         | US Nat. Park Service  |     | NOAA                 |                    | Other Federal Lands   |              |  |
|          | ha                    | %       | ha                    | %   | ha                   | %                  | ha                    | %            |  |
| Status 1 | 0.0                   | 0       | 216,427.5             | 1   | 14.6                 | < 1                | 9,378.9               | < 1          |  |
| Status 2 | 0.0                   | 0       | 3,925.9               | < 1 | 4,339.6              | < 1                | 14.4                  | < 1          |  |
| Status 3 | 18,353.6              | < 1     | 273,989.5             | 2   | 0.0                  | 0                  | 1,445.4               | < 1          |  |
| Status 4 | 0.0                   | 0       | 0.0                   | 0   | 0.0                  | 0                  | 0.0                   | 0            |  |
| Total    | 18,353.6              | < 1     | 494,342.9             | 3   | 4,354.2              | < 1                | 10,838.7              | < 1          |  |
|          |                       |         |                       |     |                      |                    |                       |              |  |
|          | Native Am.            | Reserv. | State Park/Hist. Park |     | State WMA/G          | State WMA/Gameland |                       | State Forest |  |
|          | ha                    | %       | ha                    | %   | ha                   | %                  | ha                    | %            |  |
| Status 1 | 0.0                   | 0       | 155.5                 | <1  | 1.5                  | < 1                | 0.0                   | 0            |  |
| Status 2 | 0.0                   | 0       | 966.6                 | < 1 | 701,144.2            | 4                  | 21.2                  | < 1          |  |
| Status 3 | 2,035.2               | <1      | 497,259.7             | 3   | 111,955.7            | < 1                | 192,876.0             | 1            |  |
| Status 4 | 0.0                   | 0       | < 0.1                 | < 1 | 11,500.4             | < 1                | 5.5                   | < 1          |  |
| lotal    | 2,035.2               | < 1     | 498,381.9             | 3   | 824,601.8            | 5                  | 192,902.7             | 1            |  |
|          | State Coastal Reserve |         | ST Nat.Area/Preserve  |     | Other State Lands    |                    | Private Cons. Easemt. |              |  |
|          | ha                    | %       | ha                    | %   | ha                   | %                  | ha                    | %            |  |
| Status 1 | 0.0                   | 0       | 2.026.7               | <1  | 0.0                  | 0                  | 0.0                   | 0            |  |
| Status 2 | 11,611.5              | < 1     | 44,399.7              | < 1 | 2.1                  | < 1                | 2,118.6               | < 1          |  |
| Status 3 | 0.0                   | 0       | 19,683.5              | < 1 | 9,695.6              | < 1                | 100,874.5             | < 1          |  |
| Status 4 | 0.0                   | 0       | 0.0                   | 0   | 1,114.5              | < 1                | < 0.1                 | < 1          |  |
| Total    | 11,611.5              | < 1     | 66,110.0              | < 1 | 10,812.2             | < 1                | 102,993.2             | < 1          |  |
|          |                       |         |                       |     |                      |                    |                       |              |  |
|          | Private Land -        | No Res. | Water                 |     |                      |                    | Over                  | all Total    |  |
|          | ha                    | %       | ha                    | %   |                      |                    | ha                    | %            |  |
| Status 1 | 0.0                   | 0       | 0.0                   | 0   |                      |                    | 325,481.0             | 2            |  |
| Status 2 | 0.2                   | < 1     | 0.0                   | 0   |                      |                    | 994,763.8             | 6            |  |
| Status 3 | 639.6                 | < 1     | 0.0                   | 0   |                      |                    | 1,781,940.2           | 13           |  |
| Status 4 | 12,849,288.9          | 78      | 55,632.0              | < 1 |                      |                    | 12,929,055.2          | 79           |  |
| Total    | 12,849,928.7          | 78      | 55,632.0              | < 1 |                      |                    | 16,031,240.2          | 100          |  |
|          |                       |         | 1                     |     | 1                    |                    |                       |              |  |

GAP Status 1: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a natural state within which disturbance events (of natural type, frequency, and intensity) are allowed to proceed without interference or are mimicked through management.

GAP Status 2: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a primarily natural state, but which may receive use or management practices that degrade the quality of existing natural communities.

GAP Status 3: An area having permanent protection from conversion of natural land cover for the majority of the area, but subject to extractive uses of either a broad, low-intensity type or localized intense type. It also confers protection to federally listed endangered and threatened species throughout the area.

GAP Status 4: Lack of irrevocable easement or mandate to prevent conversion of natural habitat types to anthropogenic habitat types. Allows for intensive use throughout the tract. Also includes those tracts for which the existence of such restrictions or sufficient information to establish a higher status is unknown.

#### Year-round Model:

Habitat Description:

Found in almost all types of freshwater and occasionally brackish habitats (Martof et al. 1980). It prefers slow-moving bodies of shallow water or the shallow edges of deep water bodies, commonly in areas less than one meter deep. The habitat generally has a muddy or sandy bottom and an abundance of vegetation. Examples include lakes, rivers, canals, sloughs, hammock streams, coastal waterways, and marshes (Ernst et al. 1994).

Snapping turtles spend most of their time lying on the bottom, hiding under various submerged objects such as stumps, roots, brush, or muskrat dens, or floating beneath the surface. Foraging is generally done under water, but also on land. Mating occurs under water, on the bottom. The nest is dug in loose sand, loam, detritus, sawdust piles, muskrat dens, or beaver lodges, and often on roadsides, railways, and dams where natural sites are scarce. Females will travel up to 16 km to find a suitable site. Most hibernate in mud or beneath logs, or occasionally in the mud of wet meadows (Ernst et al. 1994).

\*\*\*Quoted directly from State hab notes.

Ecosystem Classifiers: Hydrology is model driver. All systems except Montane, Cove, Glades, prairie, Bald, Rock outcrops and open beach. Amy Silvano 2jul05

#### Hydrography Mask:

#### Freshwater Only

Utilizes open water features with buffers of 30m from and 250m into selected water features. Utilizes wet vegetation features with buffers of 30m from and unlimited into selected vegetation features.

#### Selected Map Units:

| Functional Group                  | Map Unit Name  |
|-----------------------------------|--|
| Anthropogenic                     | Bare Sand  |
| Anthropogenic                     | Bare Soil  |
| Anthropogenic                     | Deciduous Plantations  |
| Anthropogenic                     | Developed Open Space   |
| Anthropogenic                     | Evergreen Plantations  |
| Anthropogenic                     | Low Intensity Developed  |
| Anthropogenic                     | Medium Intensity Developed   |
| Anthropogenic                     | Pasture/Hay  |
| Anthropogenic                     | Row Crop   |
| Anthropogenic                     | Successional Grassland/Herbaceous  |
| Anthropogenic                     | Successional Grassland/Herbaceous (Other)                                    |
| Anthropogenic                     | Successional Grassland/Herbaceous (Utility Swath)                            |
| Anthropogenic                     | Successional Shrub/Scrub (Clear Cut)   |
| Anthropogenic                     | Successional Shrub/Scrub (Other)   |
| Anthropogenic                     | Successional Shrub/Scrub (Utility Swath)                                     |
| Brackish Tidal Marsh & Wetland    | Atlantic Coastal Plain Indian River Lagoon Tidal Marsh                       |
| Brackish Tidal Marsh & Wetland    | Atlantic Coastal Plain Northern Sea-Level Fen                                |
| Brackish Tidal Marsh & Wetland    | Atlantic Coastal Plain Northern Tidal Wooded Swamp                           |
| Brackish Tidal Marsh & Wetland    | Atlantic Coastal Plain Southern Tidal Wooded Swamp                           |
| Brackish Tidal Marsh & Wetland    | East Gulf Coastal Plain Tidal Wooded Swamp                                   |
| Brackish Tidal Marsh & Wetland    | South Florida Everglades Sawgrass Marsh                                      |
| Brackish Tidal Marsh & Wetland    | South Florida Mangrove Swamp   |
| Brackish Tidal Marsh & Wetland    | Southwest Florida Perched Barriers Salt Swamp and Lagoon - Mangrove Modifier |
| Brackish Tidal Marsh & Wetland    | Southwest Florida Perched Barriers Salt Swamp and Lagoon - Marsh Modifier    |
| Coastal Dune & Freshwater Wetland | Atlantic and Gulf Coastal Plain Interdunal Wetland                           |
| Coastal Dune & Freshwater Wetland | Atlantic Coastal Plain Northern Dune and Maritime Grassland                  |
| Coastal Dune & Freshwater Wetland | Atlantic Coastal Plain Southern Dune and Maritime Grassland                  |
| Coastal Dune & Freshwater Wetland | East Gulf Coastal Plain Dune and Coastal Grassland                           |
| Coastal Dune & Freshwater Wetland | Southwest Florida Dune and Coastal Grassland                                 |
| Forest/Woodland                   | Allegheny-Cumberland Dry Oak Forest and Woodland                             |
|                                   |  |

Forest/Woodland Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier Forest/Woodland Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier Forest/Woodland Appalachian Serpentine Woodland Forest/Woodland Atlantic Coastal Plain Central Maritime Forest Forest/Woodland Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest Forest/Woodland Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier Forest/Woodland Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier Forest/Woodland Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Open Understory Modifier Forest/Woodland Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Scrub/Shrub Understory Modifier Forest/Woodland Atlantic Coastal Plain Mesic Hardwood and Mixed Forest Forest/Woodland Atlantic Coastal Plain Northern Maritime Forest Forest/Woodland Atlantic Coastal Plain Northern Mixed Oak-Heath Forest Forest/Woodland Atlantic Coastal Plain Southern Maritime Forest Forest/Woodland Atlantic Coastal Plain Upland Longleaf Pine Woodland Forest/Woodland Central Appalachian Oak and Pine Forest Forest/Woodland Central Appalachian Pine-Oak Rocky Woodland Forest/Woodland East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Hardwood Modifier Forest/Woodland East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Mixed Modifier Forest/Woodland East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Pine Modifier Forest/Woodland East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Loblolly Modifier Forest/Woodland East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Offsite Hardwood Modifier Forest/Woodland East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Open Understory Modifier Forest/Woodland East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Scrub/Shrub Modifier Forest/Woodland East Gulf Coastal Plain Limestone Forest Forest/Woodland East Gulf Coastal Plain Maritime Forest Forest/Woodland East Gulf Coastal Plain Northern Dry Upland Hardwood Forest Forest/Woodland East Gulf Coastal Plain Northern Dry Upland Hardwood Forest - Offsite Pine Modifier Forest/Woodland East Gulf Coastal Plain Northern Loess Bluff Forest Forest/Woodland East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood Modifier Forest/Woodland East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Juniper Modifier Forest/Woodland East Gulf Coastal Plain Northern Mesic Hardwood Forest Forest/Woodland East Gulf Coastal Plain Southern Loess Bluff Forest Forest/Woodland East Gulf Coastal Plain Southern Mesic Slope Forest Forest/Woodland Florida Longleaf Pine Sandhill - Open Understory Modifier Forest/Woodland Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier Forest/Woodland Florida Peninsula Inland Scrub Forest/Woodland Mississippi Delta Maritime Forest Forest/Woodland Northeastern Interior Dry Oak Forest - Mixed Modifier Forest/Woodland Northeastern Interior Dry Oak Forest - Virginia/Pitch Pine Modifier Forest/Woodland Northeastern Interior Dry Oak Forest-Hardwood Modifier Forest/Woodland Northern Atlantic Coastal Plain Dry Hardwood Forest Forest/Woodland South-Central Interior Mesophytic Forest Forest/Woodland Southeast Florida Coastal Strand and Maritime Hammock Forest/Woodland Southeastern Interior Longleaf Pine Woodland Forest/Woodland Southern and Central Appalachian Oak Forest Forest/Woodland Southern and Central Appalachian Oak Forest - Xeric Forest/Woodland Southern Appalachian Low Mountain Pine Forest Forest/Woodland Southern Coastal Plain Dry Upland Hardwood Forest Forest/Woodland Southern Coastal Plain Oak Dome and Hammock Forest/Woodland Southern Interior Low Plateau Dry-Mesic Oak Forest Forest/Woodland Southern Interior Low Plateau Dry-Mesic Oak Forest - Evergreen Modifier Forest/Woodland Southern Piedmont Dry Oak-(Pine) Forest - Hardwood Modifier Forest/Woodland Southern Piedmont Dry Oak-(Pine) Forest - Loblolly Pine Modifier Forest/Woodland Southern Piedmont Dry Oak-(Pine) Forest - Mixed Modifier Forest/Woodland Southern Piedmont Dry Oak-Heath Forest - Hardwood Modifier Forest/Woodland Southern Piedmont Dry Oak-Heath Forest - Mixed Modifier

| Forest/Woodland                  | Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier                      |
|----------------------------------|--|
| Forest/Woodland                  | Southern Piedmont Mafic Hardpan Woodland   |
| Forest/Woodland                  | Southern Piedmont Mesic Forest   |
| Forest/Woodland                  | Southern Piedmont Northern Triassic Basin Dry Forest                                       |
| Forest/Woodland                  | Southern Ridge and Valley Dry Calcareous Forest  |
| Forest/Woodland                  | Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier                        |
| Forest/Woodland                  | Southern Ridge and Valley Dry Calcareous Forest - Pine Modifier                            |
| Forest/Woodland                  | Southwest Florida Coastal Strand and Maritime Hammock                                      |
| Freshwater Tidal Marsh & Wetland | Atlantic Coastal Plain Central Fresh-Oligohaline Tidal Marsh                               |
| Freshwater Tidal Marsh & Wetland | Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh                               |
| Freshwater Tidal Marsh & Wetland | Atlantic Coastal Plain Northern Fresh and Oligohaline Tidal Marsh                          |
| Freshwater Tidal Marsh & Wetland | Florida Big Bend Fresh-Oligohaline Tidal Marsh   |
| Water                            | Open Water (Fresh)   |
| Wetlands                         | Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier               |
| Wetlands                         | Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Herbaceous Modifier           |
| Wetlands                         | Atlantic Coastal Plain Brownwater Stream Floodplain Forest                                 |
| Wetlands                         | Atlantic Coastal Plain Clay-Based Carolina Bay Forested Wetland                            |
| Wetlands                         | Atlantic Coastal Plain Clay-Based Carolina Bay Herbaceous Wetland                          |
| Wetlands                         | Atlantic Coastal Plain Depression Pondshore  |
| Wetlands                         | Atlantic Coastal Plain Large Natural Lakeshore   |
| Wetlands                         | Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Taxodium/Nyssa Modifier |
| Wetlands                         | Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Oak Dominated Modifier  |
| Wetlands                         | Atlantic Coastal Plain Northern Basin Peat Swamp   |
| Wetlands                         | Atlantic Coastal Plain Northern Basin Swamp and Wet Hardwood Forest                        |
| Wetlands                         | Atlantic Coastal Plain Northern Pondshore  |
| Wetlands                         | Atlantic Coastal Plain Northern Wet Longleaf Pine Savanna and Flatwoods                    |
| Wetlands                         | Atlantic Coastal Plain Peatland Pocosin  |
| Wetlands                         | Atlantic Coastal Plain Sandhill Seep   |
| Wetlands                         | Atlantic Coastal Plain Small Blackwater River Floodplain Forest                            |
| Wetlands                         | Atlantic Coastal Plain Small Brownwater River Floodplain Forest                            |
| Wetlands                         | Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods                             |
| Wetlands                         | Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin, and Baygall                      |
| Wetlands                         | Atlantic Coastal Plain Xeric River Dune  |
| Wetlands                         | Central Appalachian Floodplain - Forest Modifier   |
| Wetlands                         | Central Appalachian Floodplain - Herbaceous Modifier                                       |
| Wetlands                         | Central Appalachian Riparian - Forest Modifier   |
| Wetlands                         | Central Appalachian Riparian - Herbaceous Modifier   |
| Wetlands                         | Central Florida Herbaceous Pondshore   |
| Wetlands                         | Central Florida Herbaceous Seep  |
| Wetlands                         | Central Florida Pine Flatwoods   |
| Wetlands                         | Central Interior Highlands and Appalachian Sinkhole and Depression Pond                    |
| Wetlands                         | Cumberland Riverscour  |
| Wetlands                         | East Gulf Coastal Plain Interior Shrub Bog   |
| Wetlands                         | East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier                    |
| Wetlands                         | East Gulf Coastal Plain Large River Floodplain Forest - Herbaceous Modifier                |
| Wetlands                         | East Gulf Coastal Plain Near-Coast Pine Flatwoods - Offsite Hardwood Modifier              |
| Wetlands                         | East Gulf Coastal Plain Near-Coast Pine Flatwoods - Open Understory Modifier               |
| Wetlands                         | East Gulf Coastal Plain Near-Coast Pine Flatwoods - Scrub/Shrub Understory Modifier        |
| Wetlands                         | East Gulf Coastal Plain Northern Depression Pondshore                                      |
| Wetlands                         | East Gulf Coastal Plain Northern Seepage Swamp   |
| Wetlands                         | East Gulf Coastal Plain Small Stream and River Floodplain Forest                           |
| Wetlands                         | East Gulf Coastal Plain Southern Depression Pondshore                                      |
| Wetlands                         | East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods                               |
| Wetlands                         | East Gulf Coastal Plain Treeless Savanna and Wet Prairie                                   |
| Wetlands                         | Floridian Highlands Freshwater Marsh   |
| Wetlands                         | Lower Mississippi River Bottomland and Floodplain Forest                                   |

| Wetlands | Lower Mississippi River Bottomland Depressions - Forest Modifier     |
|----------|--|
| Wetlands | Lower Mississippi River Bottomland Depressions - Herbaceous Modifier |
| Wetlands | Mississippi River Low Floodplain (Bottomland) Forest                 |
| Wetlands | Mississippi River Riparian Forest                                    |
| Wetlands | North-Central Appalachian Acidic Swamp                               |
| Wetlands | North-Central Appalachian Seepage Fen                                |
| Wetlands | North-Central Interior and Appalachian Rich Swamp                    |
| Wetlands | South Florida Bayhead Swamp  |
| Wetlands | South Florida Cypress Dome   |
| Wetlands | South Florida Dwarf Cypress Savanna                                  |
| Wetlands | South Florida Freshwater Slough and Gator Hole                       |
| Wetlands | South Florida Hardwood Hammock                                       |
| Wetlands | South Florida Pine Flatwoods   |
| Wetlands | South Florida Pond-Apple/Popash Slough                               |
| Wetlands | South Florida Wet Marl Prairie                                       |
| Wetlands | South Florida Willow Head  |
| Wetlands | South-Central Interior Large Floodplain - Forest Modifier            |
| Wetlands | South-Central Interior Large Floodplain - Herbaceous Modifier        |
| Wetlands | South-Central Interior Small Stream and Riparian                     |
| Wetlands | South-Central Interior/Upper Coastal Plain Wet Flatwoods             |
| Wetlands | Southern and Central Appalachian Bog and Fen                         |
| Wetlands | Southern Appalachian Seepage Wetland                                 |
| Wetlands | Southern Coastal Plain Blackwater River Floodplain Forest            |
| Wetlands | Southern Coastal Plain Herbaceous Seepage Bog                        |
| Wetlands | Southern Coastal Plain Hydric Hammock                                |
| Wetlands | Southern Coastal Plain Nonriverine Basin Swamp                       |
| Wetlands | Southern Coastal Plain Nonriverine Cypress Dome                      |
| Wetlands | Southern Coastal Plain Seepage Swamp and Baygall                     |
| Wetlands | Southern Coastal Plain Spring-run Stream Aquatic Vegetation          |
| Wetlands | Southern Piedmont Large Floodplain Forest - Forest Modifier          |
| Wetlands | Southern Piedmont Large Floodplain Forest - Herbaceous Modifier      |
| Wetlands | Southern Piedmont Seepage Wetland                                    |
| Wetlands | Southern Piedmont Small Floodplain and Riparian Forest               |
| Wetlands | Southern Piedmont/Ridge and Valley Upland Depression Swamp           |
| Wetlands | Unconsolidated Shore (Lake/River/Pond)                               |
| Wetlands | Western Highland Rim Seepage Fen                                     |
| <u></u>  |  |

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For more information:: SE-GAP Analysis Project / BaSIC 127 David Clark Labs Dept. of Biology, NCSU Raleigh, NC 27695-7617 (919) 513-2853 www.basic.ncsu.edu/segap Compiled: 15 September 2011

This data was compiled and/or developed by the Southeast GAP Analysis Project at The Biodiversity and Spatial Information Center, North Carolina State University.