











Species Modeling Report

Eastern Rat Snake

Elaphe obsoleta

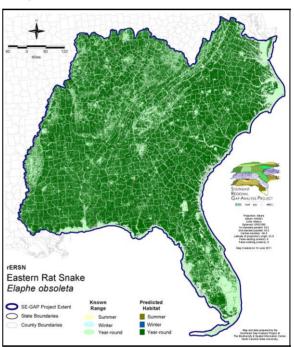
Taxa: Reptilian Order: Squamata Family: Colubridae SE-GAP Spp Code: rERSN ITIS Species Code: 174177

NatureServe Element Code: ARADB13030

KNOWN RANGE:



PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_rERSN.pdf Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_rERSN.pdf

http://www.basic.ncsu.edu/segap/datazip/region/vert/rERSN_se00.zip Data Download:

PROTECTION STATUS:

GAP Online Tool Link:

Reported on March 14, 2011

Federal Status: ---

State Status: MN (SPC), NE (NC)

NS Global Rank: G5

NS State Rank: AR (S4), IA (S4), KS (S5), LA (S5), MN (S3), MO (SNR), NE (S4), OK (S5), TX (S5)

http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=rERSN

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SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:

ha 139,056.3 225,382.4 3,277.4 173.4 367,889.6 US Dept. of ha 0.0 0.0 73,313.2 0.0 73,313.2 Native Am. ha 0.0 0.0 17,109.7 0.0 17,109.7	% 0 0 <1 0 <1	ha 16,228.1 186,750.5 1,665,848.6 < 0.1 1,868,827.3 US Nat. Park ha 303,140.3 27,984.5 339,563.0 1.0 670,689.5 State Park/Hi: ha 1,276.6 7,240.0 640,787.0 < 0.1	% <1 <1 <1 <1 <1 <1 <1 <1	ha 0.0 0.0 74,648.2 0.0 74,648.2 ha 521.4 31,627.5 0.0 0.0 32,148.9 State WMA/Gai ha 63.0 686,482.0 216,456.5	% 0 0 0 < 1 0 0 < 1 1 0 0 0 0 0 0 0 0 0 0	ha 0.0 5,067.8 744,615.3 83.5 749,766.6 Other Federa ha 20,060.6 86.6 5,537.8 0.0 25,685.0 State ha 0.0 573.5 433,911.8	% 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
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0.0	0	640,787.0 < 0.1	_	•	< 1	433,911.8	< 1
			_ 1	•		•	
17,109.7	< 1		_ T	106,248.1	< 1	49.0	< 1
		649,303.6	<1	1,009,249.6	1	434,534.2	< 1
State Coastal F	Reserve	ST Nat.Area/P	reserve	Other State	e Lands	Private Cons. E	asemt.
ha	%	ha	%	ha	%	ha	%
0.0	0	9,274.1	< 1	0.0	0	0.0	0
19,698.1	< 1	75,715.8	< 1	7.0	< 1	3,776.3	< 1
0.0	0	25,707.1	< 1	36,109.0	< 1	151,465.9	< 1
0.0	0	0.3	< 1	4,701.1	< 1	< 0.1	< 1
19,698.1	< 1	110,697.2	< 1	40,817.1	< 1	155,242.3	< 1
Private Land - '	No Res		Water		,	Overa	ıll Total
ha	%	ha	%			ha	rotai %
	0		0			489,620.3	< 1
	< 1		-			,	2
	_						7
1,000.0							91
.911.594 N	90	00,020.7	· +			. 5,==0, 15=.0	100
,	rivate Land - ha 0.0 0.4 1,305.3	rivate Land - No Res. ha % 0.0 0 0.4 < 1	rivate Land - No Res. ha % ha 0.0 0 0.0 0.4 < 1 0.0 1,305.3 < 1 1.2	rivate Land - No Res. Water ha % ha % 0.0 0 0.0 0 0.4 < 1 0.0 3 1,305.3 < 1 1.2 < 1	rivate Land - No Res. ha % ha % 0.0 0 0.0 0 0.4 < 1 0.0 3 1,305.3 < 1 1.2 < 1 ,911,594.0 90 89,526.7 < 1	rivate Land - No Res. Water ha % ha % 0.0 0 0.0 0 0.4 < 1 0.0 3 1,305.3 < 1 1.2 < 1	rivate Land - No Res. Water Overa ha % ha % ha 0.0 0 0.0 0 489,620.3 0.4 < 1 0.0 3 1,270,392.8 1,305.3 < 1 1.2 < 1 4,429,656.7

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.

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PREDICTED HABITAT MODEL(S):

Year-round Model:

Habitat Description: Rat snakes are found in a variety of habitats from forested woodlands to open agricultural fields. They are

most common in or near forested edges and seem to exhibited a strong preference for this edge habitat

(Bloui-Demers & Weatherhead 2001, Palmer & Braswell 1995). Amy Silvano 18aug05

Ecosystem Classifiers: Edge species so select all Mus that fall within ecotone Buffer. Amy Silvano 18aug05

Mask of Forest/Open Ecotone: Include within 250m of ecotone edge.

Mask of Woodlands and Shrublands: Include all woodland and shrubland interiors and 250m buffer from them.

Avoidance Mask: Medium - moderately intolerant of human disturbance.

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	Quarry/Strip Mine/Gravel Pit
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)
Bald	Central Appalachian Montane Rocky Bald - Herbaceous Modifier
Bald	Central Appalachian Montane Rocky Bald - Shrub Modifier
Bald	Southern Appalachian Grass and Shrub Bald - Herbaceous Modifier
Bald	Southern Appalachian Grass and Shrub Bald - Shrub Modifier
Beach	Atlantic Coastal Plain Northern Sandy Beach
Beach	Atlantic Coastal Plain Sea Island Beach
Beach	Atlantic Coastal Plain Southern Beach
Beach	Florida Panhandle Beach Vegetation
Beach	South Florida Shell Hash Beach
Beach	Southeast Florida Beach
Beach	Southwest Florida Beach
Beach	Unconsolidated Shore (Beach/Dune)
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Central Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh
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 Salt Marsh
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	Florida Big Bend Salt-Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Mississippi Sound Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	South Florida Everglades Sawgrass Marsh

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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 Alabama Ketona Glade and Woodland

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 Hemlock-Hardwood Forest
Forest/Woodland Appalachian Serpentine Woodland

Forest/Woodland Appalachian Shale Barrens

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 and Southern Appalachian Montane Oak Forest

Forest/Woodland Central and Southern Appalachian Northern Hardwood Forest

Forest/Woodland Central and Southern Appalachian Spruce-Fir Forest
Forest/Woodland Central Appalachian Alkaline Glade and Woodland

Forest/Woodland Central Appalachian Oak and Pine Forest

Forest/Woodland Central Appalachian Pine-Oak Rocky Woodland

Forest/Woodland Central Interior Highlands Calcareous Glade and Barrens
Forest/Woodland Central Interior Highlands Dry Acidic Glade and Barrens

Forest/Woodland Cumberland Sandstone Glade and Barrens

Forest/Woodland East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Woodland Modifier

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

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Forest/Woodland Nashville Basin Limestone Glade

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 Ridge and Valley Calcareous Valley Bottom Glade and Woodland

Forest/Woodland South Florida Pine Rockland

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 Cove Forest

Forest/Woodland Southern and Central Appalachian Mafic Glade and Barrens

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 Appalachian Montane Pine Forest and Woodland
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 Glade and Barrens
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
Prairie Bluegrass Basin Savanna and Woodland

Prairie East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland

Prairie East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Herbaceous Modifier

Prairie East Gulf Coastal Plain Jackson Plain Prairie and Barrens
Prairie East Gulf Coastal Plain Jackson Prairie and Woodland

Prairie Eastern Highland Rim Prairie and Barrens

Prairie Eastern Highland Rim Prairie and Barrens - Dry Modifier

Prairie Florida Dry Prairie

Prairie Panhandle Florida Limestone Glade
Prairie Pennyroyal Karst Plain Prairie and Barrens
Prairie Southern Ridge and Valley Patch Prairie
Prairie Western Highland Rim Prairie and Barrens

Rock Outcrop Allegheny-Cumberland Sandstone Box Canyon and Rockhouse

Rock Outcrop Central Interior Acidic Cliff and Talus

Rock Outcrop Central Interior Calcareous Cliff and Talus

Rock Outcrop East Gulf Coastal Plain Dry Chalk Bluff

Rock Outcrop North-Central Appalachian Acidic Cliff and Talus

Rock Outcrop North-Central Appalachian Circumneutral Cliff and Talus

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Rock Outcrop Southern Appalachian Granitic Dome **Rock Outcrop** Southern Appalachian Montane Cliff **Rock Outcrop** Southern Appalachian Rocky Summit Southern Appalachian Spray Cliff **Rock Outcrop Rock Outcrop** Southern Interior Acid Cliff **Rock Outcrop** Southern Interior Calcareous Cliff **Rock Outcrop** Southern Interior Sinkhole Wall Southern Piedmont Cliff **Rock Outcrop**

Rock Outcrop Southern Piedmont Granite Flatrock

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 Jackson Plain Dry Flatwoods - Open Understory Modifier

Wetlands East Gulf Coastal Plain Jackson Plain Dry Flatwoods - Scrub/Shrub Understory Modifier

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

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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

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