









Species Modeling Report

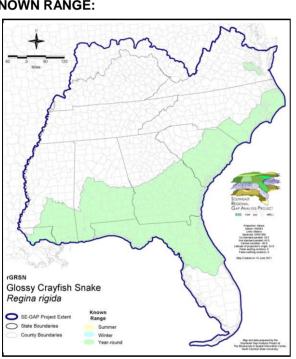
Glossy Crayfish Snake

Regina rigida

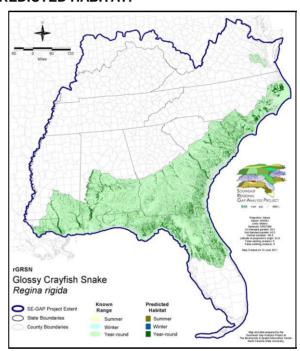
Taxa: Reptilian Order: Squamata Family: Colubridae SE-GAP Spp Code: rGRSN ITIS Species Code: 174123

NatureServe Element Code: ARADB27030

KNOWN RANGE:



PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_rGRSN.pdf

Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_rGRSN.pdf GAP Online Tool Link: http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=rGRSN

http://www.basic.ncsu.edu/segap/datazip/region/vert/rGRSN_se00.zip Data Download:

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: MS (Non-game species in need of management), NC (SR)

NS Global Rank: G5

NS State Rank: AL (S4), AR (S3), FL (SNR), GA (S4), LA (S5), MS (S4), NC (S2S3), OK (S1), SC (SNR), TX (S5), VA (S1)

rGRSN Page 1 of 4

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	112,283.8	2	5,475.9	< 1	0.0	0	0.0	0
Status 2	121,158.4	2	32,607.4	< 1	0.0	0	0.0	0
Status 3	726.5	< 1	236,309.4	3	0.0	0	86,427.5	1
Status 4	640.0	< 1	< 0.1	< 1	0.0	0	0.0	0
Total	234,808.7	3	274,392.7	4	0.0	0	86,427.5	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,331.5	< 1	10.4	< 1	5,616.5	< 1
Status 2	0.0	0	2,313.0	< 1	3,173.9	< 1	0.0	0
Status 3	15,331.9	< 1	851.0	< 1	0.0	0	1,492.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	15,331.9	< 1	11,495.4	< 1	3,184.2	< 1	7,109.3	< 1
· 	Native Am.	Reserv.	State Park/His	st. Park	State WMA/Gar	meland	State	Forest
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	106.9	< 1	0.0	0	0.0	0
Status 2	0.0	0	616.9	< 1	236,021.8	3	0.0	0
Status 3	29.1	< 1	231,067.2	3	53,346.4	< 1	104,580.9	1
Status 4	0.0	0	< 0.1	< 1	3,476.6	< 1	4.4	< 1
Total	29.1	< 1	231,791.0	3	292,844.8	4	104,585.3	1
·	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	% %
Status 1	0.0	0	560.7	< 1	0.0	0	0.0	0
Status 2	11,084.8	< 1	21,127.8	< 1	0.0	0	512.6	< 1
Status 3	0.0	0	14,181.6	< 1	4,706.4	< 1	42,725.4	<1
Status 4	0.0	0	0.0	0	749.2	< 1	0.0	0
Total	11,084.8	< 1	35,870.0	<1	5,455.5	<1	43,238.1	< 1
' 	Private Land - I	No Res		Water		Į.	Overa	ıll Total
	ha	% %	ha	water %			ha	rotai %
Status 1	0.0	0	0.0	0			132,385.7	2
Status 2	176.1	< 1	0.0	0			428,792.5	6
Status 3	1,135.5	<1	0.0	0			792,911.4	15
Status 4	5,410,931.9	77	16,781.0	< 1			5,435,420.0	77
Total	5,412,243.6	77	16,781.0	<1			6,789,509.6	100

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.

rGRSN Page 2 of 4

PREDICTED HABITAT MODEL(S):

Year-round Model:

Habitat Description:

Glossy crayfish snakes occupy a variety of freshwater habitats where they typically inhabit the shallow water of bogs, marshes, and slow-flowing streams. They may also thrive in low, damp situations around the edges of ponds and in cypress or gum swamps. Glossy crayfish snakes are highly and are normally rather secretive in nature (GA-GAP 2004).

Found in or near non-flowing aquatic habitat, cypress ponds, marshes, sphagnum choked canals, alluvial swamps, Carolina Bays, rice fields, ponds. (Wilson 1995)# Small to medium streams. Sphagnum swamps (Ashton 1988). # Very aquatic - in or immediately adjacent to water. In Louisiana, found in small streams and ditches (Dundee and Rossman 1989). # Swamps, marshes, bogs, lakes, ponds, sloughs, and small streams. Brackish tidal areas at the mouth of the St. Johns (Ernst and Barbour 1989).

'Mucky areas along slow streams; edges of ponds, lakes, swamps, freshwater tidal marshes, rice fields, flatwoods ponds, and floodplains. Usually in burrows, under mats of wet vegetation or debris at water's edge, or among aquatic plants. May wander on land during rain' (NatureServe 2005).

***From compiled Habitat notes Amy Silvano 23Aug05

Ecosystem Classifiers: Wetlands, Shrub/scrub, Domes/Hammocks, Flatwoods, Depressional, Floodplain. Amy Silvano 23Aug05

Hydrography Mask:

Freshwater Only

Slow Current Only

Utilizes flowing water features with buffers of 60m from and 60m into selected water features.

Utilizes open water features with buffers of 60m from and 60m into selected water features.

Utilizes wet vegetation features with buffer of unlimited into selected vegetation features.

Functional Group	Map Unit Name
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
Coastal Dune & Freshwater Wetland	Atlantic and Gulf Coastal Plain Interdunal Wetland
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

rGRSN Page 3 of 4

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	Central Florida Herbaceous Pondshore
Wetlands	Central Florida Herbaceous Seep
Wetlands	Central Florida Pine Flatwoods
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	South Florida Pond-Apple/Popash Slough
Wetlands	South-Central Interior/Upper Coastal Plain Wet Flatwoods
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

CITATIONS: Ashton, R. E., Jr., and P. S. Ashton. 1981. Handbook of Reptiles and Amphibians of Florida. Part One: The Snakes. Windward Pub. Co., Miami, Florida. 176 pp.

> Behler, J. L., and F. W. King. 1979. The Audubon Society field guide to North American reptiles and amphibians. Alfred A. Knopf, New York. 719 pp.

Dundee, H. A., and D. A. Rossman. 1989. The amphibians and reptiles of Louisiana. Louisiana State Univ. Press, Baton

Ernst, C. H., and R. W. Barbour. 1989. Snakes of eastern North America. George Mason Univ. Press, Fairfax, Virginia. 282

Mount, R. H. 1975. The Reptiles and Amphibians of Alabama. Auburn University Agricultural Experiment Station, Auburn, Alabama. vii + 347 pp.

Tennant, A. 1984. The Snakes of Texas. Texas Monthly Press, Austin, Texas. 561

Wilson, L. A. 1995. The Land Manager's Guide to the amphibians and reptiles of the South. Chapel Hill, NC: The Nature Conservancy.

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.

rGRSN Page 4 of 4