



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Green Water Snake

Nerodia cyclopion

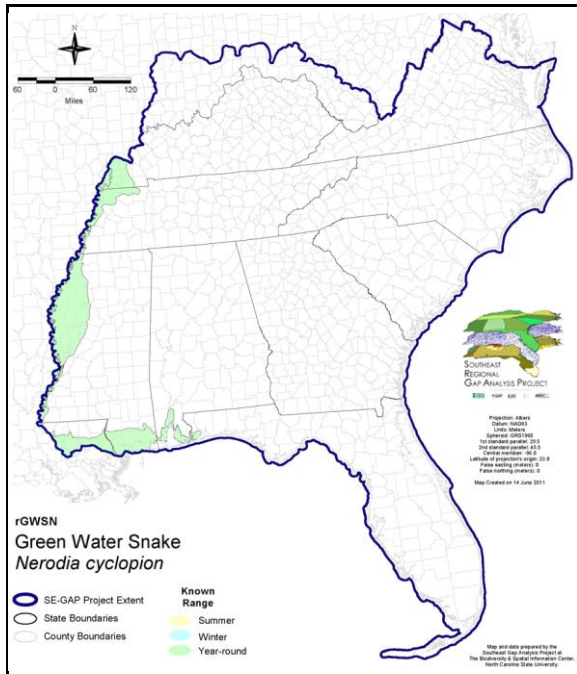
Taxa: Reptilian
 Order: Squamata
 Family: Colubridae

SE-GAP Spp Code: **rGWSN**

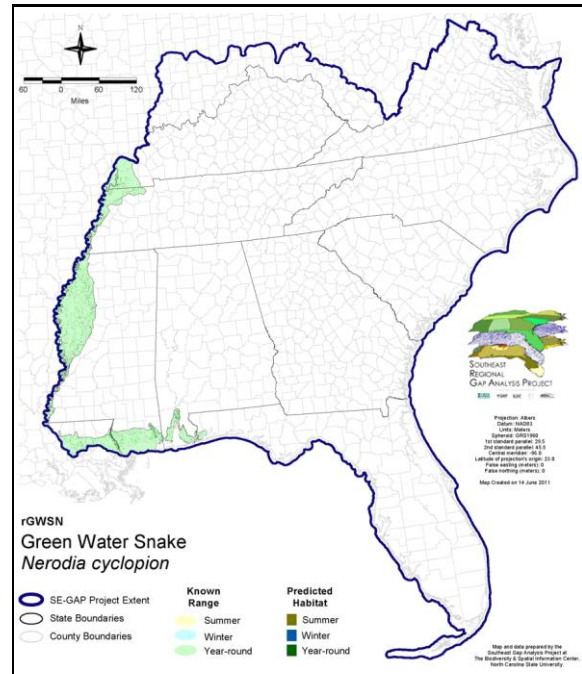
ITIS Species Code: 174243

NatureServe Element Code: ARADB22010

KNOWN RANGE:



PREDICTED HABITAT:



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

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

GAP Online Tool Link: <http://www.gapservice.ncsu.edu/segap/segap/index2.php?species=rGWSN>

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rGWSN_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: IL (LT), KY (E), MO (E), MS (Non-game species in need of management), TN (D)

NS Global Rank: G5

NS State Rank: AL (S2), AR (S3), FL (S1), IL (S1), KY (S1), LA (S5), MO (SX), MS (S5), TN (S2), TX (S5)

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	1,601.8	< 1	0.2	< 1	0.0	0	0.0	0
Status 2	7,648.0	4	38.5	< 1	0.0	0	0.0	0
Status 3	0.0	0	4,009.1	2	0.0	0	58.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	9,249.8	5	4,047.8	2	0.0	0	58.6	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.2	< 1	2.4	< 1	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	397.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.2	< 1	2.4	< 1	397.1	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6.3	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	12,842.9	6	0.0	0
Status 3	0.0	0	282.1	< 1	3,750.7	2	0.0	0
Status 4	0.0	0	0.0	0	174.8	< 1	0.0	0
Total	0.0	0	288.4	< 1	16,768.4	8	0.0	0
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	50.1	< 1	0.0	0	0.0	0
Status 2	268.5	< 1	1,848.6	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	1.6	< 1	2,408.9	1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	268.5	< 1	1,898.7	< 1	1.6	< 1	2,408.9	1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	1,658.4	< 1		
Status 2	0.0	0	0.0	0	22,649.1	11		
Status 3	0.0	0	0.0	0	10,907.9	8		
Status 4	153,945.5	78	4,546.8	2	158,841.8	80		
Total	153,945.5	78	4,546.8	2	194,057.3	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.

PREDICTED HABITAT MODEL(S):

Year-round Model:

Habitat Description: Green water snakes are highly aquatic, seldom being found away from water. They prefer still or slow-moving waters such as sluggish streams, swamps, oxbows, floodplain sloughs, bayous and shallow lakes (Dundee & Rossman 1989, Wilson 1995). In Alabama, this species is most abundant in cypress-gum swamps and is scarce or absent from open marshes and grass flats of the Mobile Bay Delta (Mount 1975). Amy Silvano 23Aug05

Ecosystem Classifiers: *****Ecosystem for zone 45 are not in Dbase, Selected MU's Floodplain/Riparian, open water

Hydrography Mask:

Freshwater Only

Slow Current Only

Utilizes flowing water features with buffers of 60m from and 120m into selected water features.

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

Selected Map Units:

Functional Group	Map Unit Name
Brackish Tidal Marsh & Wetland	East Gulf Coastal Plain Tidal Wooded Swamp
Water	Open Water (Fresh)
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 Small Stream and River Floodplain Forest
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	Southern Coastal Plain Blackwater River Floodplain Forest

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

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

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

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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.