



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Corn Snake

Elaphe guttata

Taxa: Reptilian

Order:

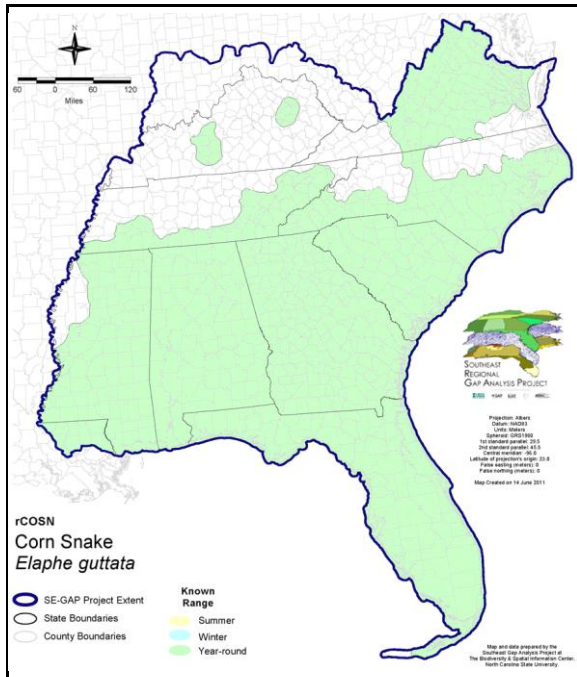
Family:

SE-GAP Spp Code: **rCOSN**

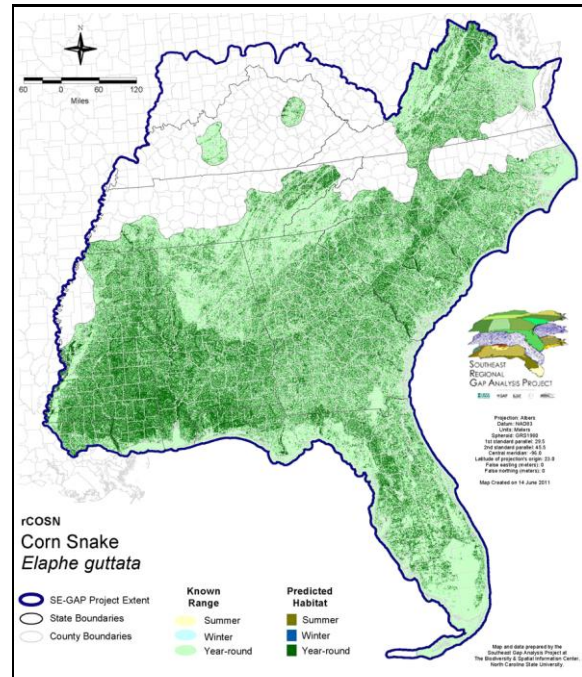
ITIS Species Code: 174175

NatureServe Element Code: ARADB13020

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rCOSN_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: ---

NS Global Rank: ---

NS State Rank: ---

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	26,593.7	< 1	2,537.8	< 1	0.0	0	0.0	0
Status 2	81,924.1	< 1	44,989.7	< 1	0.0	0	2,158.9	< 1
Status 3	72.3	< 1	647,813.5	2	20,718.0	< 1	334,462.3	1
Status 4	16.3	< 1	0.0	0	0.0	0	15.8	< 1
Total	108,606.4	< 1	695,341.0	2	20,718.0	< 1	336,637.1	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,514.0	< 1	0.0	0	1,703.6	< 1
Status 2	0.0	0	1,852.3	< 1	2,252.6	< 1	10.5	< 1
Status 3	47,151.4	< 1	39,850.7	< 1	0.0	0	3,453.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	47,151.4	< 1	56,217.0	< 1	2,252.6	< 1	5,167.3	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	331.8	< 1	7.0	< 1	0.0	0
Status 2	0.0	0	1,415.3	< 1	208,924.7	< 1	25.1	< 1
Status 3	7,557.8	< 1	228,755.7	< 1	87,620.8	< 1	162,723.1	< 1
Status 4	0.0	0	0.0	0	39,610.7	< 1	38.8	< 1
Total	7,557.8	< 1	230,502.8	< 1	336,163.2	1	162,787.0	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,978.0	< 1	0.0	0	0.0	0
Status 2	1,778.7	< 1	16,368.0	< 1	1.4	< 1	1,760.0	< 1
Status 3	0.0	0	9,305.4	< 1	14,284.4	< 1	62,052.7	< 1
Status 4	0.0	0	0.0	0	2,579.0	< 1	< 0.1	< 1
Total	1,778.7	< 1	28,651.4	< 1	16,864.8	< 1	63,812.8	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	48,666.1	< 1		
Status 2	0.0	0	0.0	0	363,461.4	1		
Status 3	413.6	< 1	0.0	0	1,666,234.5	8		
Status 4	27,672,175.1	91	24,529.1	< 1	27,778,559.4	91		
Total	27,672,588.6	91	24,529.1	< 1	29,856,921.4	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: Corn snakes are generally encountered throughout the southeast in xeric habitats like mixed forest, pine flatwoods, or pine sandhill environments (GA-GAP 2003). They can occasionally be found in bottomland or other mesic hardwoods (Wilson 1995), but these and other wet areas are generally avoided (Palmer & Braswell 1995). Corn snakes prefer open woodlands with abundance of cover material such as logs and stumps (GA-GAP 2003). They are also found around abandoned farms, open grassy areas, clear cuts, and other places adjacent to forested areas (Mitchell 1995, Crosswhite et. al 1999) where small rodents thrive. Amy Silvano 18aug05

Ecosystem Classifiers: Evergreen, & mixed Forests, Xeric Uplands, Glades and Barrens, Flatwoods, Floodplain/Riparian (No blackwater or Herb mods) as Pmu's and Grassland, Pasture/Hay as AMU's. Amy Silvano 18aug05

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Low Intensity Developed
Forest/Woodland	Alabama Ketona Glade and Woodland
Forest/Woodland	Appalachian Serpentine Woodland
Forest/Woodland	Appalachian Shale Barrens
Forest/Woodland	Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly 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 Northern Mixed Oak-Heath Forest
Forest/Woodland	Atlantic Coastal Plain Upland Longleaf Pine Woodland
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 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 - Open Understory Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Scrub/Shrub Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Open Understory Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier
Forest/Woodland	Nashville Basin Limestone Glade
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	South Florida Pine Rockland
Forest/Woodland	Southeastern Interior Longleaf Pine Woodland
Forest/Woodland	Southern and Central Appalachian Mafic Glade and Barrens
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 - 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 Northern Triassic Basin Dry Forest
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Central Appalachian Floodplain - Forest Modifier

Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Forest 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	Mississippi River Low Floodplain (Bottomland) Forest
Wetlands	Mississippi River Riparian Forest
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest

Selected Secondary Map Units within 500m of Primary Map Units:

Functional Group	Map Unit Name
Anthropogenic	Successional Grassland/Herbaceous
Anthropogenic	Successional Grassland/Herbaceous (Other)
Anthropogenic	Successional Grassland/Herbaceous (Utility Swath)
Anthropogenic	Pasture/Hay

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.

Collins, J. T. 1982. Amphibians and reptiles in Kansas. Second edition. Univ. Kansas Mus. Nat. Hist., Pub. Ed. Ser. 8. xiii + 356 pp.

Crosswhite, D.L., Fox, S.F., Thill, R.E., 2004. Herpetological habitat relations in the Ouachita Mountains, Arkansas. In: Guildin, J.M. (ed), Ouachita and Ozark mountains Symposium: Ecosystem management Research, Hot Springs, Arkansas, October 29-28, 1999.

Fitch, H. S. 1970. Reproductive cycles of lizards and snakes. Univ. Kansas Museum Natural History Miscellaneous Publication 52:1-247.

Green, N. B., and T. K. Pauley. 1987. Amphibians and reptiles in West Virginia. University of Pittsburg Press, Pittsburg, Pennsylvania. xi + 241 pp.

Schwartz, A., and R. W. Henderson. 1991. Amphibians and Reptiles of the West Indies: Descriptions, Distributions, and Natural History. University of Florida Press, Gainesville, Florida. xvi + 720 pp.

Stebbins, R. C. 1985. A Field Guide to Western Reptiles and Amphibians. Second Edition. Houghton Mifflin Company, Boston, Massachusetts. xiv + 336 pp.

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

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