



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Ringneck Snake

Diadophis punctatus

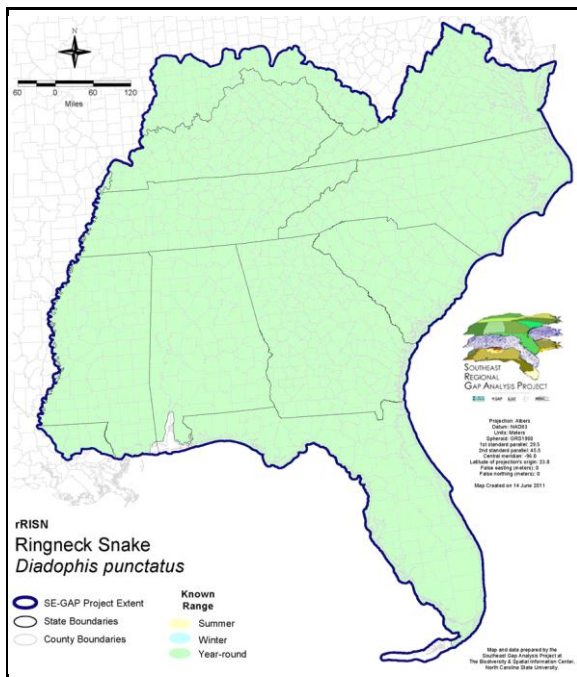
Taxa: Reptilian
 Order: Squamata
 Family: Colubridae

SE-GAP Spp Code: **rRISN**

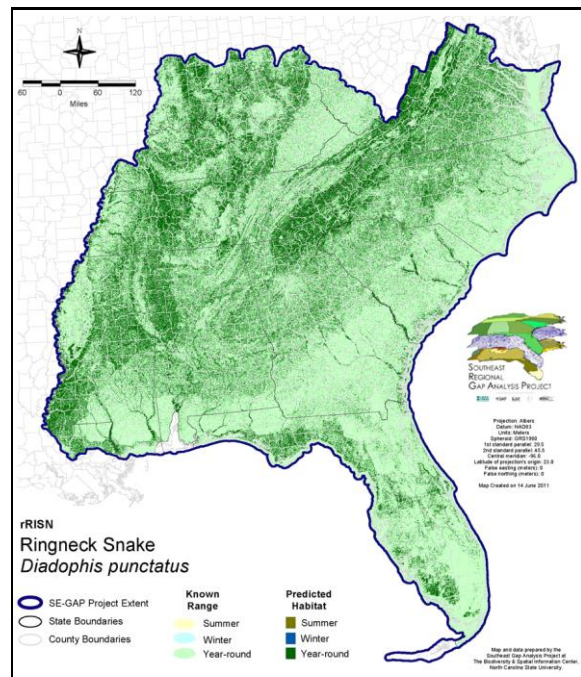
ITIS Species Code: 174158

NatureServe Element Code: ARADB10010

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rRISN_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: ID (P), KY (N), MS (Non-game species in need of management), NE (NC), NJ (S), NY (GN), UT (None), WA (M), QC (Susceptible)

NS Global Rank: G5

NS State Rank: AL (S5), AR (S5), AZ (S4), CA (S5), CO (S2), CT (S5), DC (S4), DE (S5), FL (S5), GA (S5), IA (S5), ID (S2), IL (SNR), IN (SNR), KS (S5), KY (S5), LA (S5), MA (S5), MD (S5), ME (S5), MI (S5), MN (SNR), MO (SNR), MS (S5), NC (S5), NE (S5), NH (S5), NJ (S5), NM (S4), NV (S3), NY (S5), OH (SNR), OK (S5), OR (S4?), PA (S5), RI (SNR), SC (SNR), SD (S2), TN (S5), TX (S5), UT (S2S3), VA (S5), VT (S3), WA (S3S4), WI (SNR), WV (S5), NB (S4), NS (S5), ON (S4), QC (S3S4)

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	48,016.9	< 1	27,213.8	< 1	0.0	0	0.0	0
Status 2	106,595.6	< 1	326,242.5	< 1	0.0	0	4,151.7	< 1
Status 3	2,819.1	< 1	1,820,755.4	5	42,127.3	< 1	286,540.6	< 1
Status 4	42.7	< 1	< 0.1	< 1	0.0	0	9.4	< 1
Total	157,474.2	< 1	2,174,211.7	6	42,127.3	< 1	290,701.6	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	276,774.2	< 1	68.9	< 1	11,345.7	< 1
Status 2	0.0	0	11,814.8	< 1	6,023.3	< 1	50.0	< 1
Status 3	19,645.7	< 1	200,971.3	< 1	0.0	0	2,876.5	< 1
Status 4	0.0	0	1.0	4	0.0	0	0.0	0
Total	19,645.7	< 1	489,561.8	1	6,092.2	< 1	14,272.2	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	916.3	< 1	53.0	< 1	0.0	0
Status 2	0.0	0	16,704.6	< 1	453,170.3	1	259.5	< 1
Status 3	21,618.2	< 1	354,545.6	< 1	110,575.8	< 1	152,164.9	< 1
Status 4	0.0	0	< 0.1	< 1	46,949.0	< 1	5.9	< 1
Total	21,618.2	< 1	372,166.6	1	610,748.2	2	152,430.2	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,378.8	< 1	0.0	0	0.0	0
Status 2	3,645.5	< 1	50,279.0	< 1	5.0	< 1	1,827.4	< 1
Status 3	0.0	0	14,973.9	< 1	5,782.5	< 1	63,377.9	< 1
Status 4	0.0	0	1.6	< 1	1,863.7	< 1	0.0	0
Total	3,645.5	< 1	73,633.4	< 1	7,651.2	< 1	65,205.3	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	372,767.6	1		
Status 2	0.0	0	0.0	5	980,769.4	3		
Status 3	465.5	< 1	1.0	< 1	3,099,240.9	14		
Status 4	29,426,592.0	82	31,189.2	< 1	29,553,561.5	82		
Total	29,427,057.5	82	31,190.4	< 1	34,006,339.4	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: Ringneck snakes are commonly associated with hardwood or mixed hardwood pine forests (Mitchell 1994). They prefer moist or mesic forests with the southern subspecies, *D. p. punctatus* also inhabiting flatwoods, and floodplains (Palmer & Braswell 1995, Wilson 1995). Amy Silvano 18aug05

Ecosystem Classifiers: Mixed, Hardwood, Slope, Mesic & Maritiem Forests, Flatwoods, Hammocks, & Floodplain/Riparian (excluding blackwater systems & herb modifiers). Amy Silvano 18aug05

Selected Map Units:

Functional Group	Map Unit Name
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
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 - Offsite Hardwood 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	Central Appalachian Oak and Pine Forest
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 Upland Longleaf Pine Woodland - Offsite Hardwood 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 Loess Bluff Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood 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	Mississippi Delta Maritime Forest
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed 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	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
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 - 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 Mesic Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier

Forest/Woodland	Southwest Florida Coastal Strand and Maritime Hammock
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest
Wetlands	Atlantic Coastal Plain Northern Wet Longleaf Pine Savanna and Flatwoods
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Central Florida Pine Flatwoods
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 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 Small Stream and River Floodplain Forest
Wetlands	East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods
Wetlands	East Gulf Coastal Plain Treeless Savanna and Wet Prairie
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 Florida Cypress Dome
Wetlands	South Florida Dwarf Cypress Savanna
Wetlands	South Florida Hardwood Hammock
Wetlands	South Florida Pine Flatwoods
Wetlands	South Florida Wet Marl Prairie
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	South-Central Interior/Upper Coastal Plain Wet Flatwoods
Wetlands	Southern Coastal Plain Hydric Hammock
Wetlands	Southern Coastal Plain Nonriverine Cypress Dome
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest

CITATIONS: Collins, J. T. 1991. Viewpoint: a new taxonomic arrangement for some North American amphibians and reptiles. *SSAR Herpetol. Review* 22:42-43.

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

Fitch, H. S. 1975. A demographic study of the ringneck snake (*Diadophis punctatus*) in Kansas. *Univ. Kansas Mus. Nat. Hist. Misc. Pub.* 62:1-53.

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

Hammerson, G. A. 1982. *Amphibians and reptiles in Colorado*. Colorado Division of Wildlife, Denver. vii + 131 pp.

Minton, S. A., Jr. 1972. *Amphibians and reptiles of Indiana*. Indiana Academy Science Monographs 3. v + 346 pp.

Mitchell, J. C. 1994. *The reptiles of Virginia*. Washington, DC: Smithsonian Institution Press.

Palmer, W. M., and A. L. Braswell. 1995. *Reptiles of North Carolina*. North Carolina State Museum of Natural Sciences, University of North Carolina Press, Chapel Hill, North Carolina.

Pinou, T., C. A. Hass, and L. R. Maxson. 1995. Geographic variation of serum albumin in the monotypic snake genus *DIADOPHIS* (Colubridae: Xenodontinae). *Journal of Herpetology* 29:105-110.

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.

Vogt, R. G. 1981. *Natural history of amphibians and reptiles of Wisconsin*. Milwaukee Public Museum. 205 pp.

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