



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

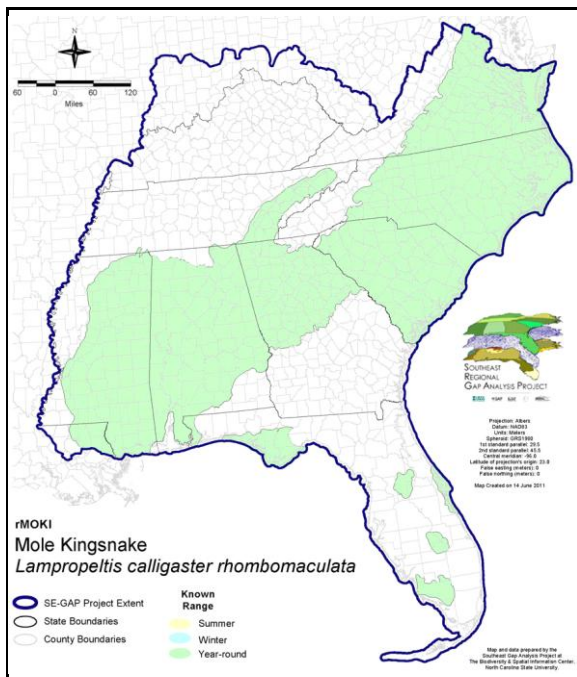
Mole Kingsnake

Lampropeltis calligaster rhombomaculata

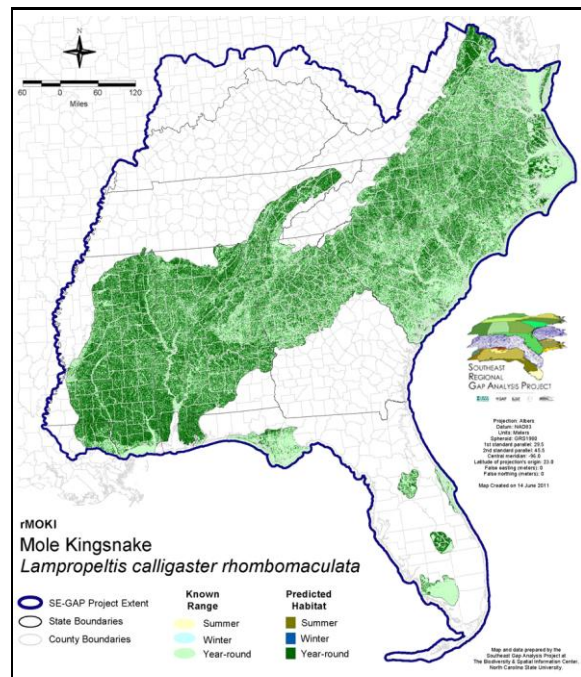
Taxa: Reptilian
Order: Squamata
Family: Colubridae

SE-GAP Spp Code: **rMOKI**
ITIS Species Code: 174186
NatureServe Element Code: ARADB19012

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rMOKI_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---
State Status: MS (Non-game species in need of management)
NS Global Rank: G5T5
NS State Rank: AL (S3), DC (SH), LA (S1S2), MS (S3?)

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	16,800.8	< 1	1,490.5	< 1	0.0	0	0.0	0
Status 2	31,696.9	< 1	32,136.1	< 1	0.0	0	1,396.2	< 1
Status 3	277.0	< 1	446,510.1	2	27,816.1	< 1	99,573.3	< 1
Status 4	9.7	< 1	0.0	0	0.0	0	202.5	< 1
Total	48,784.4	< 1	480,136.7	2	27,816.1	< 1	101,172.0	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	47.9	< 1	13.3	< 1	4,467.4	< 1
Status 2	0.0	0	1,616.2	< 1	3,295.6	< 1	7.6	< 1
Status 3	20,860.1	< 1	21,702.5	< 1	0.0	0	3,751.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	20,860.1	< 1	23,366.6	< 1	3,308.9	< 1	8,226.1	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	523.2	< 1	29.5	< 1	0.0	0
Status 2	0.0	0	2,236.0	< 1	60,575.3	< 1	1.6	< 1
Status 3	5,860.6	< 1	43,950.0	< 1	41,446.4	< 1	34,942.2	< 1
Status 4	0.0	0	0.0	0	61,212.7	< 1	0.0	0
Total	5,860.6	< 1	46,709.1	< 1	163,263.9	< 1	34,943.9	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,107.4	< 1	0.0	0	0.0	0
Status 2	1,984.4	< 1	8,847.1	< 1	1.6	< 1	716.0	< 1
Status 3	0.0	0	4,499.3	< 1	2,337.0	< 1	4,763.5	< 1
Status 4	0.0	0	0.0	0	2,404.0	< 1	0.0	0
Total	1,984.4	< 1	15,453.7	< 1	4,742.6	< 1	5,479.5	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	25,479.9		< 1	
Status 2	0.0	0	0.0	0	144,510.6		< 1	
Status 3	0.0	0	< 0.1	< 1	758,289.3		4	
Status 4	26,162,092.4	95	5,765.1	< 1	26,292,889.4		95	
Total	26,162,092.4	95	5,765.2	< 1	27,221,169.2		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: Fossorial, mole kingsnakes generally inhabit relatively dry open habitats including mixed pine woodlands, pine flatwoods, pastures, meadows and old fields (Palmer & Braswell 1995, Mitchell 1995). This species generally avoids hydric areas (Palmer & Braswell 1995) but can occasionally be found in cultivated fields and suburban areas (Mitchell 1995, Conant & Collins 1998). Amy Silvano 22Aug05

Ecosystem Classifiers: Xeric Flat, Xeric Uplands, Evergreen & Mixed forest, Disturbed successional, Ag, Flatwoods (Dry only), Low Urban, prairie.excluded glade woodlands because of fossorial natures. Amy Silvano 22aug05

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Developed Open Space
Anthropogenic	Low Intensity Developed
Anthropogenic	Pasture/Hay
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)
Forest/Woodland	Alabama Ketona Glade and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier
Forest/Woodland	Appalachian Serpentine Woodland
Forest/Woodland	Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath 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	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Woodland 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 Northern Dry Upland Hardwood Forest - Offsite Pine Modifier
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Juniper Modifier
Forest/Woodland	Florida Peninsula Inland Scrub
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	Southern Appalachian Low Mountain Pine Forest
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 Mafic Hardpan Woodland
Forest/Woodland	Southern Piedmont Northern Triassic Basin Dry Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Pine Modifier
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	Pennyroyal Karst Plain Prairie and Barrens
Prairie	Southern Ridge and Valley Patch Prairie
Prairie	Western Highland Rim Prairie and Barrens
Wetlands	Atlantic Coastal Plain Northern Wet Longleaf Pine Savanna and 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 Southern Loblolly-Hardwood Flatwoods

CITATIONS:

For more information:: SE-GAP Analysis Project / BaSIC
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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.