



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

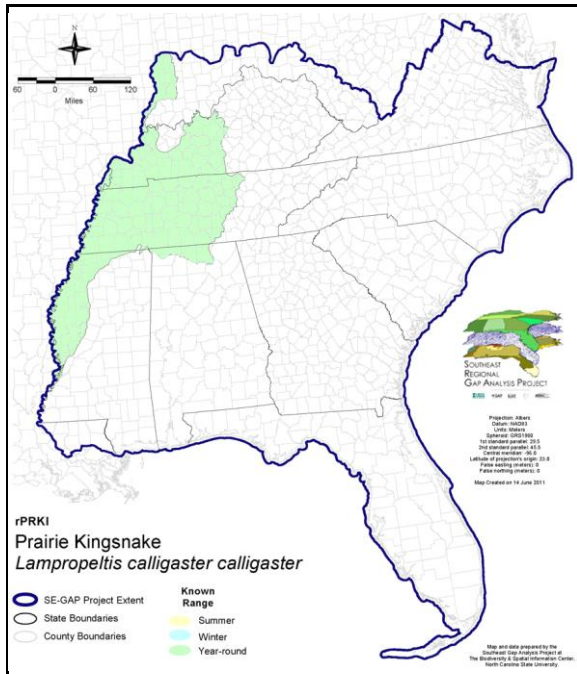
### Prairie Kingsnake

*Lampropeltis calligaster calligaster*

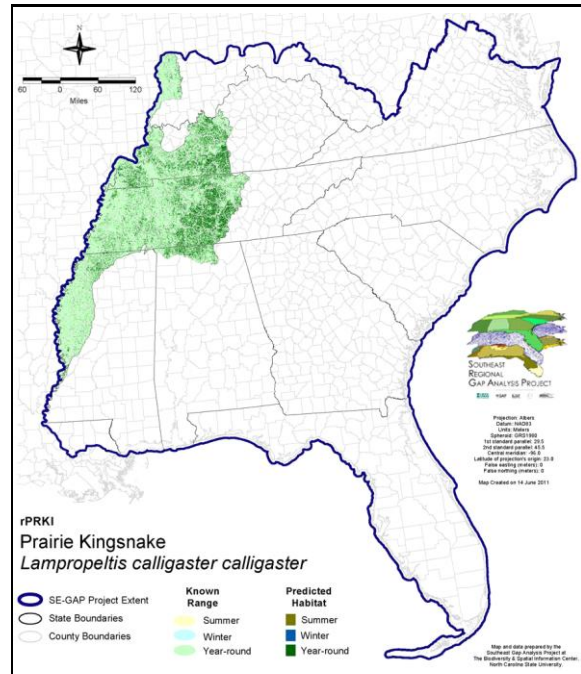
Taxa: Reptilian  
 Order: Squamata  
 Family: Colubridae

SE-GAP Spp Code: **rPRKI**  
 ITIS Species Code: 209221  
 NatureServe Element Code: ARADB19011

#### KNOWN RANGE:



#### PREDICTED HABITAT:



Range Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Range\\_rPRKI.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_rPRKI.pdf)

Predicted Habitat Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Dist\\_rPRKI.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_rPRKI.pdf)

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/rPRKI\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/rPRKI_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---  
 State Status: KY (N), MS (Non-game species in need of management)  
 NS Global Rank: G5T5  
 NS State Rank: AL (S1S2), AR (S5), IN (S4), KY (S4), MO (S5), MS (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	337.1	< 1	0.0	0	0.0	0	0.0	0
Status 2	3,500.8	< 1	6.8	< 1	0.0	0	0.0	0
Status 3	18.6	< 1	715.1	< 1	1,796.8	< 1	23,826.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	3,856.6	< 1	721.9	< 1	1,796.8	< 1	23,826.3	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	110.4	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	565.9	< 1	0.0	0	148.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	676.4	< 1	0.0	0	148.8	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5.1	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	8,683.8	< 1	0.0	0
Status 3	0.0	0	1,876.0	< 1	2,372.8	< 1	19.2	< 1
Status 4	0.0	0	0.0	0	57.2	< 1	0.0	0
Total	0.0	0	1,881.1	< 1	11,113.8	< 1	19.2	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1.4	< 1	0.0	0	0.0	0
Status 2	0.0	0	1,683.8	< 1	0.4	< 1	79.0	< 1
Status 3	0.0	0	0.3	< 1	801.9	< 1	814.0	< 1
Status 4	0.0	0	0.0	0	6.4	< 1	0.0	0
Total	0.0	0	1,685.4	< 1	808.7	< 1	893.0	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	454.1	< 1		
Status 2	0.0	0	0.0	0	13,954.6	< 1		
Status 3	0.0	0	0.0	0	32,955.6	1		
Status 4	2,766,026.3	98	707.8	< 1	2,766,854.9	98		
Total	2,766,026.3	98	707.8	< 1	2,814,219.1	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: Prairie kingsnakes are residents of grassland prairies, old fields, savannah patches, open woodlands, and occasionally cultivated fields (Barbour 1971, Conant & Collins 1998). Amy Silvano 22Aug05

Very little information regarding this species.

Ecosystem Classifiers: Prairie, Pasture/Hay, successional/grassland. Amy Silvano 22aug05

### Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Pasture/Hay
Anthropogenic	Successional Grassland/Herbaceous
Anthropogenic	Successional Grassland/Herbaceous (Other)
Anthropogenic	Successional Grassland/Herbaceous (Utility Swath)
Forest/Woodland	Central Interior Highlands Calcareous Glade and Barrens
Forest/Woodland	Central Interior Highlands Dry Acidic Glade and Barrens
Forest/Woodland	Nashville Basin Limestone Glade
Prairie	Bluegrass Basin Savanna and Woodland
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	Western Highland Rim Prairie and Barrens
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

### CITATIONS:

- Barbour, R. W. 1971. Amphibians and reptiles of Kentucky. Univ. Press of Kentucky, Lexington. x + 334 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.
- Blaney, R. M. 1979. *Lampropeltis calligaster*. Cat. Am. Amph. Rep. 229.1-229.2.
- Collins, J. T. 1982. Amphibians and reptiles in Kansas. Second edition. Univ. Kansas Mus. Nat. Hist., Pub. Ed. Ser. 8. xiii + 356 pp.
- Collins, J. T. 1991. Viewpoint: a new taxonomic arrangement for some North American amphibians and reptiles. SSAR Herpetol. Review 22:42-43.
- Conant, R. and J. T. Collins. 1991. A field guide to reptiles and amphibians: eastern and central North America. Third edition. Houghton Mifflin Co., Boston, Massachusetts. 450 pp.
- Conant, R. and J.T. Collins. 1998. A field guide to the reptiles and amphibians: eastern and central North America. Houghton Mifflin, Boston. 616 p.
- Dowling, H. G. 1993. Viewpoint: a reply to Collins (1991, 1992). Herpetol. Rev. 24:11-13.
- Minton, S. A., Jr. 1972. Amphibians and reptiles of Indiana. Indiana Academy Science Monographs 3. v + 346 pp.
- Mount, R. H. 1975. The Reptiles and Amphibians of Alabama. Auburn University Agricultural Experiment Station, Auburn, Alabama. vii + 347 pp.
- Smith, H.M. and E.D. Brodie, Jr. 1982. Reptiles of North America. Golden Press, NY. 240pp.
- Smith, P. W. 1961. The amphibians and reptiles of Illinois. Illinois Natural History Survey 28:1-298.
- 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  
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Center, North Carolina State University.