



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Five-lined Skink

Eumeces fasciatus

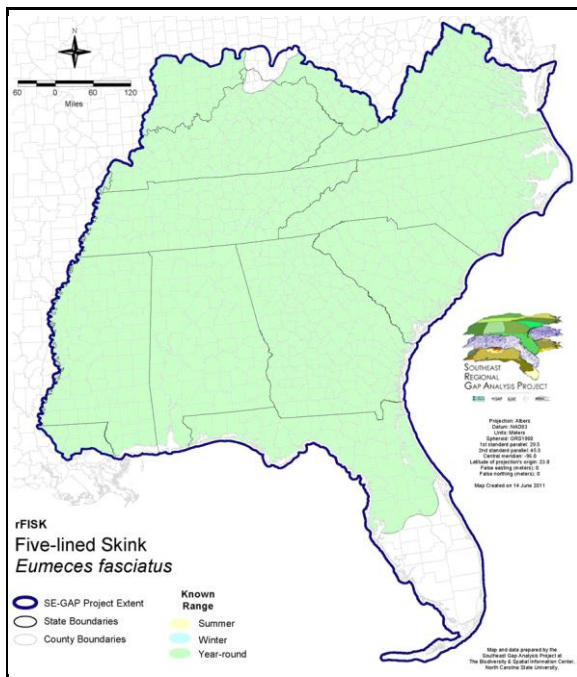
Taxa: Reptilian
Order: Squamata
Family: Scincidae

SE-GAP Spp Code: **rFISK**

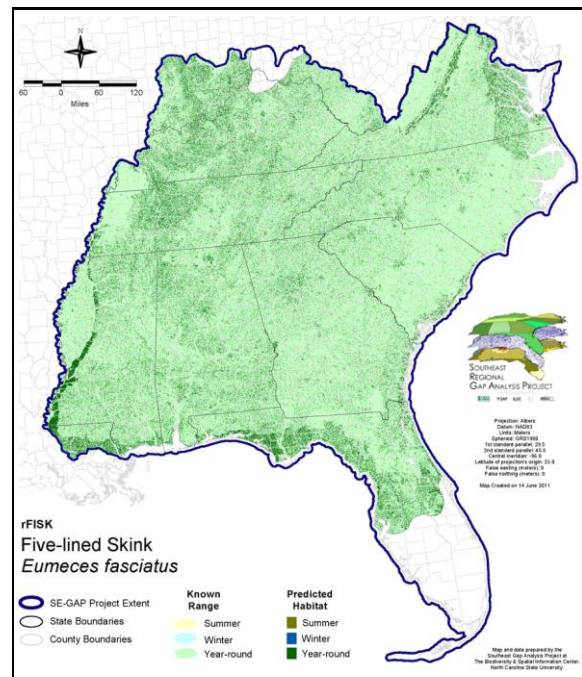
ITIS Species Code: 173959

NatureServe Element Code: ARACH01050

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rFISK_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (T), KY (N), MN (SPC), MS (Non-game species in need of management), NE (NC), NJ (U), NY (GN), VT (E), WI (SC/H)

NS Global Rank: G5

NS State Rank: AL (S5), AR (S5), CT (S1), DC (S4), DE (S5), FL (SNR), GA (S5), IA (S4), IL (S5), IN (S4), KS (S5), KY (S5), LA (S5), MA (SX), MD (S5), MI (S3), MN (S3), MO (S5), MS (S5), NC (S5), NE (S1), NJ (SU), NY (S3), OH (SNR), OK (S5), PA (S4), SC (SNR), SD (SU), TN (S5), TX (S5), VA (S5), VT (S1), WI (S4), WV (S5), ON (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	12,993.1	< 1	5,070.0	< 1	0.0	0	0.0	0
Status 2	28,112.8	< 1	73,726.8	< 1	0.0	0	318.3	< 1
Status 3	1,108.3	< 1	485,666.9	3	14,504.5	< 1	169,492.2	1
Status 4	14.5	< 1	< 0.1	< 1	0.0	0	118.1	< 1
Total	42,228.6	< 1	564,463.8	4	14,504.5	< 1	169,928.6	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	81,380.7	< 1	0.0	0	474.7	< 1
Status 2	0.0	0	5,082.8	< 1	4,235.1	< 1	46.4	< 1
Status 3	3,884.8	< 1	29,935.2	< 1	0.0	0	2,835.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	3,884.8	< 1	116,398.7	< 1	4,235.1	< 1	3,356.8	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	410.5	< 1	47.5	< 1	0.0	0
Status 2	0.0	0	3,265.8	< 1	151,018.0	< 1	175.8	< 1
Status 3	3,083.0	< 1	127,012.5	< 1	28,788.2	< 1	91,320.1	< 1
Status 4	0.0	0	0.0	0	22,719.0	< 1	6.6	< 1
Total	3,083.0	< 1	130,688.8	< 1	202,572.7	1	91,502.5	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,020.3	< 1	0.0	0	0.0	0
Status 2	1,901.5	< 1	17,329.1	< 1	1.7	< 1	576.5	< 1
Status 3	0.0	0	7,888.1	< 1	8,157.3	< 1	31,808.7	< 1
Status 4	0.0	0	0.6	< 1	381.4	< 1	0.0	0
Total	1,901.5	< 1	29,238.1	< 1	8,540.5	< 1	32,385.2	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	104,396.8 < 1			
Status 2	0.0	0	0.0	5	285,790.9 2			
Status 3	51.6	< 1	1.1	< 1	1,005,538.2 10			
Status 4	13,611,208.9	88	12,102.1	< 1	13,669,255.7 88			
Total	13,611,260.4	88	12,103.3	< 1	15,064,981.6 100			

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: Inhabits recently cut forests and hardwood forests with abundant logs, snags, and woody debris. Usually this habitat is located within moist valleys adjacent to small streams or standing water (Wilson 1995). In Florida, this species uses pine flatwoods, damp upland pines and hardwoods, oak hammocks, and debris within rural dwellings (Bartlett and Bartlett 1999). M. Rubino, 9mar05.

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Low Intensity Developed
Anthropogenic	Successional Shrub/Scrub (Clear Cut)
Anthropogenic	Successional Shrub/Scrub (Other)
Anthropogenic	Successional Shrub/Scrub (Utility Swath)
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Bluff Forest
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	South-Central Interior Mesophytic Forest
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern Piedmont Mesic Forest
Wetlands	Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods
Wetlands	Central Florida Pine Flatwoods
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	South Florida Hardwood Hammock
Wetlands	South Florida Pine Flatwoods
Wetlands	Southern Coastal Plain Hydric Hammock

- CITATIONS:** Barbour, R. W. 1971. Amphibians and reptiles of Kentucky. Univ. Press of Kentucky, Lexington. x + 334 pp.
- Bartlett, R.D. and P.P. Bartlett. 1999. Field guide to Florida reptiles and amphibians. Gulf Publishing Co, Houston, TX. 280 p.
- DeGraaf, R. M., and D. D. Rudis. 1983. Amphibians and reptiles of New England. Habitats and natural history. Univ. Massachusetts Press. vii + 83 pp.
- Fitch, H. S. 1954. Life history and ecology of the five-lined skink, *Eumeces fasciatus*. Univ. Kansas Pub. Mus. Nat.Hist. 8:1-156.
- Hecnar, S. J. 1994. Nest distribution, site selection, and brooding in the five-lined skink (*EUMECES FASCIATUS*). Can. J. Zool. 72:1510-1516.
- 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.
- Murphy, R. W., W. E. Cooper, Jr., and W. S. Richardson. 1983. Phylogenetic relationships of the North American five-lined skinks, genus *EUMECES* (Sauria:Scincidae). Herpetologica 39:200-211.
- 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.
- Seburn, C. N. L. 1993. Spatial distribution and microhabitat use in the five-lined skink (*EUMECES FASCIATUS*). Can. J. Zool. 71:445-450.
- Vitt, L. J., and W. E. Cooper, Jr. 1986. Skink reproduction and sexual dimorphism:*EUMECES FASCIATUS* in the southeastern United States, with notes on *EUMECES INEXPECTATUS*. J. Herpetol. 20:65-76.

Vogt, R. G. 1981. Natural history of amphibians and reptiles of Wisconsin. Milwaukee Public Museum. 205 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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This data was compiled and/or developed
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Center, North Carolina State University.