



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

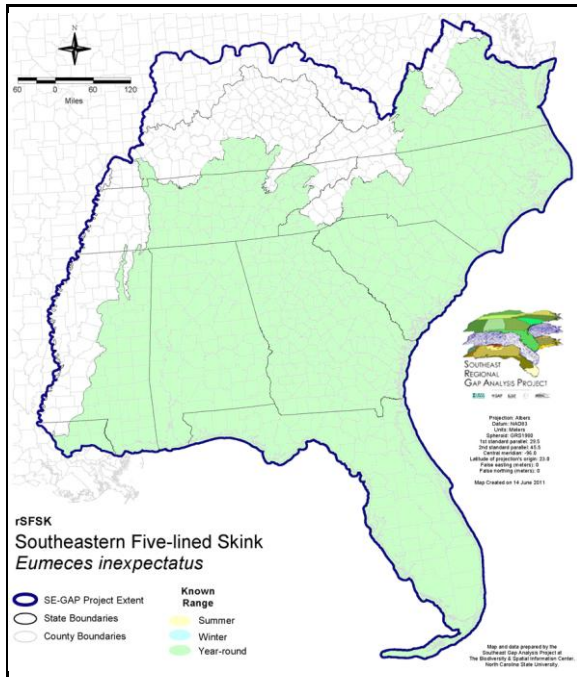
### Southeastern Five-lined Skink

*Eumeces inexpectatus*

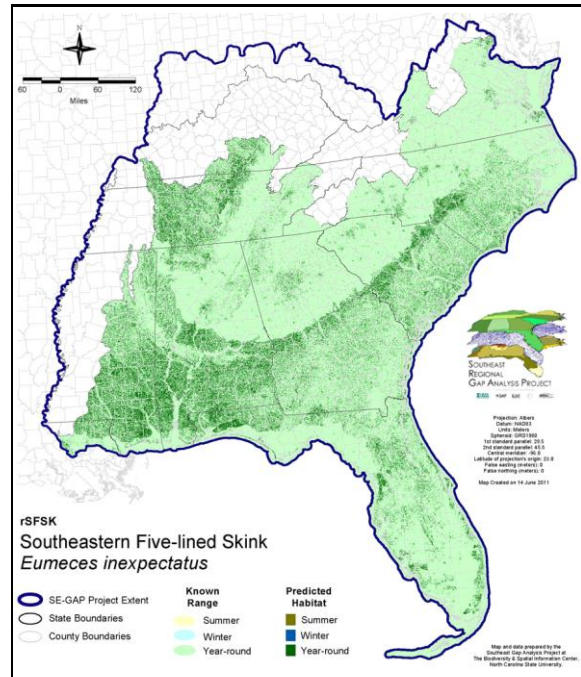
Taxa: Reptilian  
 Order: Squamata  
 Family: Scincidae

SE-GAP Spp Code: **rSFSK**  
 ITIS Species Code: 173960  
 NatureServe Element Code: ARACH01070

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/rSFSK\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/rSFSK_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: KY (S), MS (Non-game species in need of management)

NS Global Rank: G5

NS State Rank: AL (S3), FL (SNR), GA (S5), KY (S3), LA (S4), MD (S4), MS (S5), NC (S5), SC (SNR), TN (S5), VA (S5)

**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	14,102.9	< 1	704.9	< 1	0.0	0	0.0	0
Status 2	25,828.7	< 1	21,470.2	< 1	0.0	0	44.7	< 1
Status 3	1,067.8	< 1	413,180.1	3	9,568.4	< 1	297,632.1	2
Status 4	3.3	< 1	0.0	0	0.0	0	110.5	< 1
Total	41,002.7	< 1	435,355.2	3	9,568.4	< 1	297,787.3	2
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,872.3	< 1	199.4	< 1	9,788.9	< 1
Status 2	0.0	0	16,816.5	< 1	4,596.0	< 1	9.9	< 1
Status 3	33,208.5	< 1	28,446.4	< 1	0.0	0	600.5	< 1
Status 4	0.0	0	1.0	< 1	0.0	0	0.0	0
Total	33,208.5	< 1	61,136.8	< 1	4,795.5	< 1	10,399.3	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	341.9	< 1	0.0	0	0.0	0
Status 2	0.0	0	183.8	< 1	90,493.4	< 1	0.0	0
Status 3	3,799.5	< 1	85,870.9	< 1	33,096.4	< 1	110,516.9	< 1
Status 4	0.0	0	0.0	0	23,972.2	< 1	35.9	< 1
Total	3,799.5	< 1	86,396.6	< 1	147,562.0	1	110,552.9	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,132.8	< 1	0.0	0	0.0	0
Status 2	2,089.0	< 1	11,160.7	< 1	0.7	< 1	769.8	< 1
Status 3	0.0	0	3,974.0	< 1	6,802.6	< 1	9,123.4	< 1
Status 4	0.0	0	0.0	0	257.4	< 1	0.0	0
Total	2,089.0	< 1	16,267.5	< 1	7,060.7	< 1	9,893.2	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	42,143.2 < 1			
Status 2	0.0	0	0.0	< 1	173,463.7 1			
Status 3	51.4	< 1	0.0	0	1,036,938.7 10			
Status 4	12,441,705.2	88	7,374.8	< 1	12,497,429.9 88			
Total	12,441,756.6	88	7,375.0	< 1	13,749,975.5 100			

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: Most abundant in dry, well drained, sandy habitats, including pine clearings, beaches, barrier islands, and ridgetops in the Coastal Plain (Wilson 1995). In Florida, it can be found in backyard habitats, humid hammocks, pinewoods, sandhills, limestone hardwoods, wet marl prairies and pine rocklands (Bartlett and Bartlett 1999). M. Rubino, 10mar05.

**Selected Map Units:**

Functional Group	Map Unit Name
Anthropogenic	Bare Sand
Anthropogenic	Low Intensity Developed
Beach	Atlantic Coastal Plain Northern Sandy Beach
Beach	Atlantic Coastal Plain Sea Island Beach
Beach	Atlantic Coastal Plain Southern Beach
Beach	Florida Panhandle Beach Vegetation
Beach	South Florida Shell Hash Beach
Beach	Southeast Florida Beach
Beach	Southwest Florida Beach
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Northern Dune and Maritime Grassland
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Southern Dune and Maritime Grassland
Coastal Dune & Freshwater Wetland	East Gulf Coastal Plain Dune and Coastal Grassland
Coastal Dune & Freshwater Wetland	Southwest Florida Dune and Coastal Grassland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Appalachian Serpentine Woodland
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood 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 Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Upland Longleaf Pine Woodland
Forest/Woodland	Central Appalachian Pine-Oak Rocky Woodland
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Mixed 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 - Offsite Hardwood 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	East Gulf Coastal Plain Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Juniper Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Open Understory Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier
Forest/Woodland	Florida Peninsula Inland Scrub
Forest/Woodland	Mississippi Delta Maritime Forest
Forest/Woodland	South Florida Pine Rockland
Forest/Woodland	Southeast Florida Coastal Strand and Maritime Hammock
Forest/Woodland	Southeastern Interior Longleaf Pine Woodland
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 Mafic Hardpan Woodland
Forest/Woodland	Southern Piedmont Northern Triassic Basin Dry Forest

Forest/Woodland	Southwest Florida Coastal Strand and Maritime Hammock
Wetlands	Atlantic Coastal Plain Xeric River Dune
Wetlands	South Florida Wet Marl Prairie

**CITATIONS:** Anderson, R. A., and H. M. Tiebout, III. 1993. The effects of timber management practices on the lizards of xeric pineland habitats: an investigation of the Florida sand pine scrub. Final report to The Nature Conservancy.

Ashton, R. E., Jr., and P. S. Ashton. 1985. Handbook of reptiles and amphibians of Florida. Part two. Lizards, turtles & crocodilians. Windward Pub., Inc., Miami. 191 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.

Conant, R. 1975. A Field Guide to Reptiles and Amphibians of Eastern and Central North America. Second Edition. Houghton Mifflin Company, Boston, Massachusetts. xvii + 429 pp.

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

Martof, B. S., W. M. Palmer, J. R. Bailey, and J. R. Harrison, III. 1980. Amphibians and reptiles of the Carolinas and Virginia. University of North Carolina Press, Chapel Hill, North Carolina. 264 pp.

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

Mount, R. H. 1975. The Reptiles and Amphibians of Alabama. Auburn University Agricultural Experiment Station, Auburn, Alabama. vii + 347 pp.

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.

Mushinsky, H. R. 1992. Natural history and abundance of southeastern five-lined skinks, EUMECES INEXPECTATUS, on a periodically burned sandhill in Florida. *Herpetologica* 48:307-312.

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.

Steiner, T.M. 1986. EUMECES INEXPECTATUS. *Cat. Am. Amph. Rep.* 385.1-385.2.

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.

For more information:: SE-GAP Analysis Project / BaSIC  
 127 David Clark Labs  
 Dept. of Biology, NCSU  
 Raleigh, NC 27695-7617  
 (919) 513-2853  
[www.basic.ncsu.edu/segap](http://www.basic.ncsu.edu/segap)

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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.