





# **Southeastern Shrew**

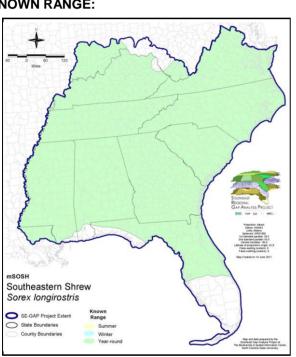
Sorex longirostris

Taxa: Mammalian Order: Soricomorpha Family: Soricidae

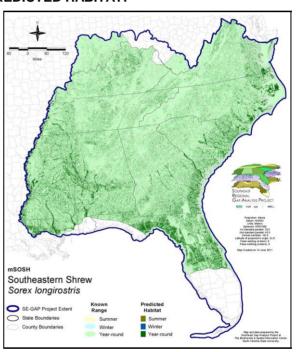
SE-GAP Spp Code: mSOSH ITIS Species Code: 179936

NatureServe Element Code: AMABA01060

## **KNOWN RANGE:**



### PREDICTED HABITAT:



http://www.basic.ncsu.edu/segap/datazip/maps/SE\_Range\_mSOSH.pdf Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE\_Dist\_mSOSH.pdf GAP Online Tool Link: http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=mSOSH Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/mSOSH\_se00.zip

## **PROTECTION STATUS:**

Reported on March 14, 2011

Federal Status: ---

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

NS Global Rank: G5

NS State Rank: AL (S4), AR (S2), DC (S3), FL (S5), GA (S4), IL (S3S4), IN (S3), KY (S4), LA (S2S3), MD (S3S4), MO (S4), MS

(S4), NC (S4), SC (SNR), TN (S4), VA (S5), WV (SU)

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## SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:

İ	US FWS		US Forest Service		Tenn. Valley Author.		US DOD/ACOE	
	ha	%	ha	%	ha	%	ha	%
Status 1	81,320.5	< 1	5,779.4	< 1	0.0	0	0.0	0
Status 2	186,741.4	< 1	36,712.9	< 1	0.0	0	1,987.7	< 1
Status 3	1,381.4	< 1	386,363.3	2	18,075.4	< 1	134,871.9	< 1
Status 4	36.4	< 1	0.0	0	0.0	0	13.2	< 1
Total	269,479.6	1	428,855.5	2	18,075.4	< 1	136,872.8	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,175.3	< 1	22.7	< 1	8,748.1	< 1
Status 2	0.0	0	3,914.1	< 1	3,095.4	< 1	0.0	0
Status 3	16,662.5	< 1	9,223.1	< 1	0.0	0	3,143.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	16,662.5	< 1	23,312.5	< 1	3,118.1	< 1	11,892.0	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	136.8	< 1	5.8	< 1	0.0	0
Status 2	0.0	0	1,059.5	< 1	294,425.0	1	31.8	< 1
Status 3	2,587.6	< 1	302,318.6	1	103,583.4	< 1	135,068.0	< 1
Status 4	0.0	0	< 0.1	< 1	16,281.6	< 1	8.6	< 1
Total	2,587.6	< 1	303,514.9	1	414,295.8	2	135,108.5	< 1
ĺ	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,573.1	< 1	0.0	0	0.0	0
Status 2	12,285.0	< 1	43,960.1	< 1	2.7	< 1	961.6	< 1
Status 3	0.0	0	17,019.6	< 1	9,721.5	< 1	88,625.3	< 1
Status 4	0.0	0	0.0	0	1,495.1	< 1	< 0.1	< 1
Total	12,285.0	< 1	62,552.8	< 1	11,219.3	< 1	89,586.9	< 1
ĺ	Private Land - I	No Res.		Water			Overa	ıll Total
	ha	%	ha	%			ha	%
Status 1	0.0	0	0.0	0			107,761.6	< 1
Status 2	0.0	0	0.0	0			585,176.9	3
Status 3	590.0	< 1	0.0	0			1,229,235.6	8
Status 4	18,012,346.0	88	21,329.8	< 1			18,067,756.2	89
Total	18,012,936.1	88	21,329.8	< 1			19,989,930.3	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.

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#### PREDICTED HABITAT MODEL(S):

#### Year-round Model:

Habitat Description:

Southeastern shrews are found in moist, forested conditions, often near, but not restricted to, water bodies (Whitaker and Hamilton 1998). They are perhaps most abundant in moist habitats with a dense ground cover of plants tangles of vines such as wooded swamps, marshes, and floodplain forest. Occasionally they are found in upland habitats such as old fields, loblolly pine plantations xeric hammock, sandpine scrub, pine flatwoods, and sandhills (Layne et al. 1977). Southeastern shrews are fossorial mammals that spend much of their time in underground burrows and in leaf litter. Its range rarely overlaps that of S. cinereus. Once considered rare, S. longirostris is generally uncommon, but is abundant in localized areas. The young are born from April through October. The litter size is 1-6 (average around 4) with 1-3 litters per year. Gestation probably lasts 2 - 3 weeks (if same as other shrews). Little is known about this species' life cycle. Stacy Smith, 12June05

\*\*\* French (1980) reviewed all research on S. longirostris from museum specimens across the southeast. He state that there is much disagreement about habitat relationships and that specimens were taken from upland areas and wetland habitat types.

Elevation Mask: < 760m Hydrography Mask:

Utilizes flowing water features with buffer of 120m from selected water features.

Utilizes open water features with buffer of 120m from selected water features.

Utilizes wet vegetation features with buffers of 120m from and unlimited into selected vegetation features.

Functional Group	Map Unit Name				
Anthropogenic	Pasture/Hay				
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	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest				
Forest/Woodland	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Woodland Modifier				
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	Florida Peninsula Inland Scrub				
Forest/Woodland	Southern Piedmont Mesic Forest				
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 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				
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier				
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Herbaceous Modifier				
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest				
Wetlands	Atlantic Coastal Plain Clay-Based Carolina Bay Forested Wetland				
Wetlands	Atlantic Coastal Plain Clay-Based Carolina Bay Herbaceous Wetland				
Wetlands	Atlantic Coastal Plain Depression Pondshore				
Wetlands	Atlantic Coastal Plain Large Natural Lakeshore				

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Wetlands Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Oak Dominated Modifier

Wetlands Atlantic Coastal Plain Northern Basin Peat Swamp

Wetlands Atlantic Coastal Plain Northern Basin Swamp and Wet Hardwood Forest

Wetlands Atlantic Coastal Plain Northern Pondshore

Wetlands Atlantic Coastal Plain Northern Wet Longleaf Pine Savanna and Flatwoods

Wetlands Atlantic Coastal Plain Peatland Pocosin

Wetlands Atlantic Coastal Plain Small Blackwater River Floodplain Forest
Wetlands Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods
Wetlands Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin, and Baygall

Wetlands Central Appalachian Floodplain - Forest Modifier

Wetlands Central Appalachian Floodplain - Herbaceous Modifier
Wetlands Central Appalachian Riparian - Forest Modifier
Wetlands Central Appalachian Riparian - Herbaceous Modifier

Wetlands Central Florida Herbaceous Pondshore
Wetlands Central Florida Herbaceous Seep
Wetlands Central Florida Pine Flatwoods

Wetlands Central Interior Highlands and Appalachian Sinkhole and Depression Pond

Wetlands East Gulf Coastal Plain Interior Shrub Bog

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 Large River Floodplain Forest - Herbaceous 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 Northern Depression Pondshore
Wetlands East Gulf Coastal Plain Northern Seepage Swamp

Wetlands East Gulf Coastal Plain Small Stream and River Floodplain Forest

Wetlands East Gulf Coastal Plain Southern Depression Pondshore

Wetlands East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods

Wetlands East Gulf Coastal Plain Treeless Savanna and Wet Prairie

Wetlands Floridian Highlands Freshwater Marsh

Wetlands Lower Mississippi River Bottomland and Floodplain Forest
Wetlands Lower Mississippi River Bottomland Depressions - Forest Modifier
Wetlands Lower Mississippi River Bottomland Depressions - Herbaceous Modifier

Wetlands Mississippi River Low Floodplain (Bottomland) Forest

Wetlands Mississippi River Riparian Forest

Wetlands North-Central Appalachian Acidic Swamp
Wetlands North-Central Appalachian Seepage Fen

Wetlands North-Central Interior and Appalachian Rich Swamp

Wetlands South Florida Hardwood Hammock

Wetlands South-Central Interior Large Floodplain - Forest Modifier

Wetlands South-Central Interior Large Floodplain - Herbaceous Modifier

Wetlands South-Central Interior Small Stream and Riparian

Wetlands South-Central Interior/Upper Coastal Plain Wet Flatwoods

Wetlands Southern and Central Appalachian Bog and Fen
Wetlands Southern Appalachian Seepage Wetland

Wetlands Southern Coastal Plain Blackwater River Floodplain Forest

Wetlands Southern Coastal Plain Herbaceous Seepage Bog

Wetlands Southern Coastal Plain Hydric Hammock

Wetlands Southern Coastal Plain Nonriverine Basin Swamp
Wetlands Southern Coastal Plain Nonriverine Cypress Dome
Wetlands Southern Coastal Plain Seepage Swamp and Baygall

Wetlands Southern Coastal Plain Spring-run Stream Aquatic Vegetation

Wetlands Southern Piedmont Large Floodplain Forest - Forest Modifier

Wetlands Southern Piedmont Large Floodplain Forest - Herbaceous Modifier

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Wetlands	Southern Piedmont Seepage Wetland
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest
Wetlands	Southern Piedmont/Ridge and Valley Upland Depression Swamp
Wetlands	Western Highland Rim Seepage Fen

#### CITATIONS:

Churchfield, S. 1992. The Natural History of Shrews. Cornell University Press, Ithaca, New York. 192

French, T.W. 1980. Natural history of the southeastern shrew, SOREX LONGIROSTRIS (Bachman). Am. Midl. Nat. 104:13-

French, T.W. 1980. Sorex longirostris. Am. Soc. Mamm., Mammalian Species No. 143. pp. 1-

George, S. B. 1988. Systematics, historical biogeography, and evolution of the genus SOREX. J. Mammalogy 69:443-

Hall, E. R. 1981. The Mammals of North America. Second edition. 2 Volumes. John Wiley and Sons, New York, New York. 1181

Hamilton, William J., Jr., and John O. Whitaker, Jr. 1979. Mammals of the eastern United States. Cornell Univ. Press, Ithaca, New York. 346

Jackson, H. H. T. 1928. A taxonomic review of the American long-tailed shrews (genera SOREX and MICROSOREX). North American Fauna 51:1-238.

Jones, C. A., et al. 1991. Geographic variation and taxonomy of the southeastern shrew (SOREX LONGIROSTRIS). J. Mammalogy 72:263-

Jones, J. K., Jr., et al. 1992. Revised checklist of North American mammals north of Mexico, 1991. Occas. Pap. Mus., Texas Tech Univ. (146):1-

Junge, J. A., and R. S. Hoffmann, 1981, An annotated key to the long-tailed shrews (genus SOREX) of the United States and Canada, with notes on the Middle American SOREX. Occas. Pap. Univ. Kansas Mus. Nat. Hist. 94:1-48.

Layne, J. N., editor. 1978. Rare and endangered biota of Florida. Vol. 1. Mammals. State of Florida Game and Freshwater Fish Commission. xx + 52 pp.

Layne, J.N.; Stallcup, J.A.; Woolfenden, G.E.; McCauley, M.N.; Worley, D.J. 1977. Fish and Wildlife Inventory of the Seven-County Region Included in the Central Florida Phosphate Industry Area-Wide Environmental Impact Study. Volumes I and II. Also avai

Lee, D. S., L. B. Funderburg Jr., and M. K. Clark. 1982. A distributional survey of North Carolina mammals. Occasional Papers of the North Carolina Biological Survey, No. 1982-10. North Carolina State. Mus. Nat. Hist., Raleigh, North Carolina. 72 pp.

Lowery, G. H., Jr. 1974. The mammals of Louisiana and its adjacent waters. Louisiana State University Press, Baton Rouge. 565

Pagels, J. F., C. S. Jones, and C. O. Handley, Jr. 1982. Northern limits of the southeastern shrew, SOREX LONGIROSTRIS Bachman (Insectivora:Soricidae) on the Atlantic coast of the United States. Brimleyana 8:51-59.

Pagels, John F. 1989. Distribution of the southeastern shrew, SOREX LONGIROSTRIS Bachman, in Western Virginia. Brimleyana. No. 15:123-

Rose, R.K. 1980. The southeastern shrew, Sorex longirostis, in southern Indiana. Jour. Mamm. 61(1):162-

Schwartz, Charles W., and Elizabeth R. Schwartz. 1981. The wild mammals of Missouri. University of Missouri Press, Columbia. 356

Taylor, C. L., and R. F. Wilkinson, Jr. 1988. First record of SOREX LONGIROSTRIS (Soricidae) in Oklahoma. Southwest. Nat. 33:248.

Webster, W. D., J. F. Parnell and W. C. Biggs Jr. 1985. Mammals of the Carolinas, Virginia, and Maryland. The University of North Carolina Press, Chapel Hill, NC.

Whitaker, J.O. Jr. and W.J. Hamilton, Jr. 1998. Mammals of the eastern United States. Cornell Univ. Press, Ithaca, New York. 583

Wilson, D. E., and D. M. Reeder (editors). 1993. Mammal Species of the World: a Taxonomic and Geographic Reference. Second Edition. Smithsonian Institution Press, Washington, DC. xviii + 1206 pp.

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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

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