





Eastern Spadefoot

Scaphiopus holbrookii

Taxa: Amphibian Order: Anura

Family: Scaphiopodidae

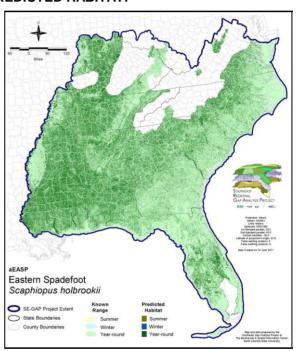
SE-GAP Spp Code: aEASP ITIS Species Code: 173426

NatureServe Element Code: AAABF01040

KNOWN RANGE:

Eastern Spadefoot Scaphiopus holbrookii

PREDICTED HABITAT:



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

GAP Online Tool Link: http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=aEASP Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/aEASP_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (E), IN (SSC), KY (N), MA (T), MS (Non-game species in need of management), NY (SC), OH (E), PA (PE),

RI (State Endangered) NS Global Rank: G5

NS State Rank: AL (S5), AR (S2), CT (S1), DC (SH), DE (S4), FL (SNR), GA (S5), IL (S3), IN (S2), KY (S4), LA (S4), MA (S2), MD (S4), MO (S2), MS (S5?), NC (S5), NJ (SNR), NY (S2S3), OH (S1), PA (S1), RI (S1), SC (SNR), TN (S5), VA (S4), WV (S1)

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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	34,475.4	< 1	1,890.2	< 1	0.0	0	0.0	0
Status 2	71,026.6	< 1	56,356.3	< 1	0.0	0	3,869.3	< 1
Status 3	1,734.1	< 1	642,220.5	2	40,141.9	< 1	303,530.5	< 1
Status 4	33.4	< 1	< 0.1	< 1	0.0	0	38.1	< 1
Total	107,269.5	< 1	700,467.0	2	40,141.9	< 1	307,437.8	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	20,113.9	< 1	0.0	0	221.0	< 1
Status 2	0.0	0	1,560.2	< 1	563.4	< 1	0.0	0
Status 3	33,148.5	< 1	25,172.6	< 1	0.0	0	2,566.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	33,148.5	< 1	46,846.6	< 1	563.4	< 1	2,787.5	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	596.1	< 1	41.4	< 1	0.0	0
Status 2	0.0	0	5,594.2	< 1	251,248.1	< 1	80.8	< 1
Status 3	5,977.4	< 1	222,894.9	< 1	89,288.1	< 1	102,075.8	< 1
Status 4	0.0	0	0.0	0	42,428.7	< 1	23.1	< 1
Total	5,977.4	< 1	229,085.2	< 1	383,006.3	1	102,179.7	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,778.6	< 1	0.0	0	0.0	0
Status 2	1,301.9	< 1	28,405.6	< 1	4.9	< 1	1,957.2	< 1
Status 3	0.0	0	9,164.4	< 1	7,807.2	< 1	50,128.3	< 1
Status 4	0.0	0	< 0.1	< 1	2,332.9	< 1	< 0.1	< 1
Total	1,301.9	< 1	41,348.7	< 1	10,145.0	< 1	52,085.6	<1
	Private Land - I	No Res.		Water			Overa	ıll Total
	ha	%	ha	%			ha	%
Status 1	0.0	0	0.0	0			61,116.6	< 1
Status 2	23.1	< 1	0.0	0			421,991.6	1
Status 3	343.8	< 1	0.9	< 1			1,536,195.3	7
Status 4	27,733,816.6	91	29,798.6	< 1			27,850,866.9	91
Total	27,734,183.6	91	29,799.5	< 1			29,870,170.4	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:

The eastern spadefoot is a fossorial species found in areas characterized by sandy or loose soil (Conant and Collins 1998). This species enjoys open habitats (Conant and Collins 1998) but is commonly found in deciduous forests, old fields, pine flatwoods, mixed forests, and coastal pine forests where loose soils permit burrowing (Wilson 1995). In addition, the spadefoot toad will also occupy riparian bottomland areas and upland mesic environments (Carr 1940, Bartlett & Bartlett 1999, Wison 1995, NatureServe 2004). This species breeds in small fishless ponds and temporary pools where it lays a clutch of up to about 2500 eggs (in several batches) after heavy spring or summer rains. Eggs hatch in 2 days to 2 weeks. Aquatic larvae metamorphose into terrestrial form in 2-8 weeks (NatureServe 2004). Amy Silvano 22mar05.

Ecosystem Classifiers: Evergreen Forest (excluding Virginia/Pitch Pine Systems), Hardwoods, Mixed Forests, Mesic Hardwoods, Mesic & Cove Forests, Anthro. (Low intesity Developed, Pasture/Hay), Wetlands (Flatwoods, Hydric Hammock, Lakes/River/Pondshore, Depressional, Floodplain/Riparian-excluding blackwater systems). Amy Silvano 22mar05

Hydrography Mask:

Freshwater Only

Slow Current Only

Utilizes flowing water features with buffers of 250m from and 30m into selected water features.

Utilizes open water features with buffers of 250m from and 30m into selected water features.

Utilizes wet vegetation features with buffers of 250m from and unlimited into selected vegetation features.

Eunstianal Grace	Man Huit Nama				
Functional Group	Map Unit Name				
Anthropogenic	Low Intensity Developed				
Anthropogenic	Pasture/Hay				
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland				
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier				
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest				
Forest/Woodland	Atlantic Coastal Plain Dry and Dry-Mesic Oak 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 Modifie				
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest				
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 Oak and Pine Forest				
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 - Hardwood 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	/oodland 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 Limestone Forest				
Forest/Woodland	East Gulf Coastal Plain Maritime Forest				
Forest/Woodland	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest				
Forest/Woodland	East Gulf Coastal Plain Northern Loess Bluff Forest				
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood Modifier				
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Juniper Modifier				

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Forest/Woodland East Gulf Coastal Plain Southern Loess Bluff Forest

Forest/Woodland East Gulf Coastal Plain Southern Mesic Slope Forest

Forest/Woodland Florida Longleaf Pine Sandhill - Open Understory Modifier

Forest/Woodland Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier

Forest/Woodland Mississippi Delta Maritime Forest

Forest/Woodland Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland Northeastern Interior Dry Oak Forest-Hardwood Modifier
Forest/Woodland Northern Atlantic Coastal Plain Dry Hardwood Forest

Forest/Woodland South-Central Interior Mesophytic Forest

Forest/Woodland Southeast Florida Coastal Strand and Maritime Hammock

Forest/Woodland
Forest/Woodland
Southern and Central Appalachian Cove Forest
Forest/Woodland
Southern and Central Appalachian Oak Forest
Forest/Woodland
Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland
Southern Coastal Plain Dry Upland Hardwood Forest
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 Dry Oak-(Pine) Forest - Hardwood Modifier
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 - Hardwood 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 Mesic Forest

Forest/Woodland Southern Ridge and Valley Dry Calcareous Forest

Forest/Woodland Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier

Forest/Woodland Southwest Florida Coastal Strand and Maritime Hammock

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 Florida Dry Prairie

Prairie Panhandle Florida Limestone Glade
Prairie Pennyroyal Karst Plain Prairie and Barrens
Prairie Southern Ridge and Valley Patch Prairie
Prairie Western Highland Rim Prairie and Barrens

Water Open Water (Fresh)

Wetlands

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

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 Sandhill Seep

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 Pinarian Forest Modifier

Wetlands Central Appalachian Riparian - Forest Modifier

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Atlantic Coastal Plain Small Brownwater River Floodplain Forest

Wetlands Central Appalachian Riparian - Herbaceous Modifier Wetlands Central Florida Herbaceous Pondshore Wetlands Central Florida Herbaceous Seep Wetlands Central Florida Pine Flatwoods 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 South Florida Dwarf Cypress Savanna Wetlands South Florida Freshwater Slough and Gator Hole Wetlands South Florida Pine Flatwoods Wetlands South Florida Pond-Apple/Popash Slough Wetlands South Florida Wet Marl Prairie Wetlands South Florida Willow Head 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 Appalachian Seepage Wetland Wetlands Southern Coastal Plain Herbaceous Seepage Bog Wetlands Southern Coastal Plain Hydric Hammock Wetlands Southern Coastal Plain Nonriverine Basin Swamp 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 Wetlands Southern Piedmont Seepage Wetland Wetlands Southern Piedmont Small Floodplain and Riparian Forest Wetlands Southern Piedmont/Ridge and Valley Upland Depression Swamp

CITATIONS:

Wetlands

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

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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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