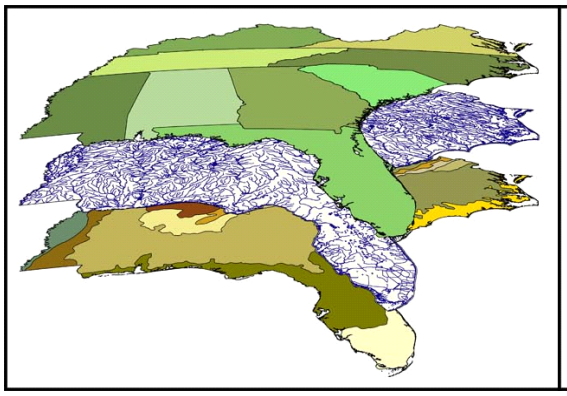


SOUTHEAST GAP ANALYSIS PROJECT

USGS science for a changing world | gap | Biodiversity and Spatial BaSIC Information Center | NARSAL

Species Modeling Report

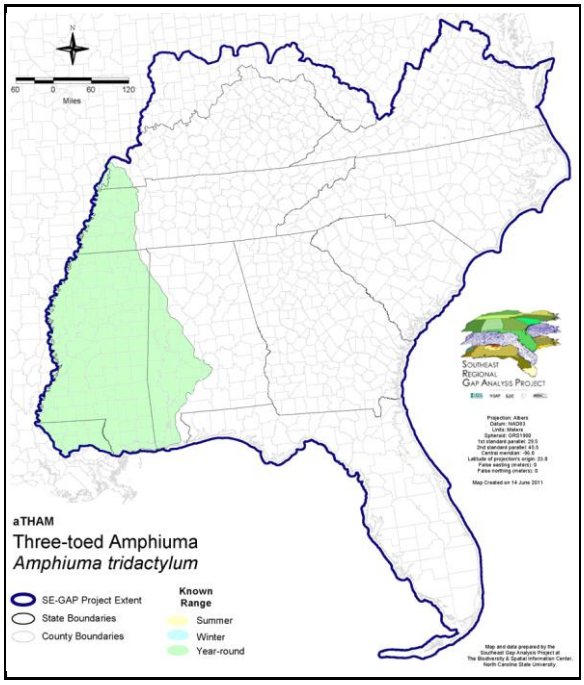
Three-toed Amphiuma

Amphiuma tridactylum

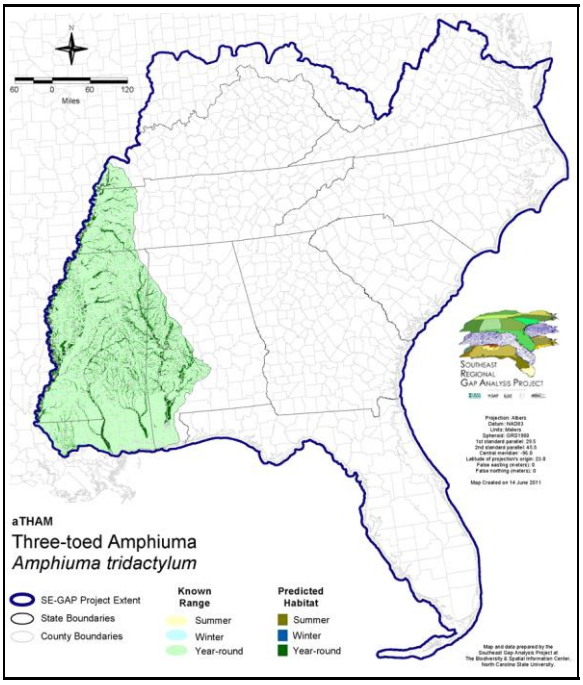
Taxa: Amphibian
Order: Caudata
Family: Amphiumidae

SE-GAP Spp Code: **aTHAM**
ITIS Species Code: 173612
NatureServe Element Code: AAAAB01030

KNOWN RANGE:



PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_aTHAM.pdf
Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_aTHAM.pdf
GAP Online Tool Link: http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=aTHAM
Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/aTHAM_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---
State Status: KY (E), MS (Non-game species in need of management), OK (Category II)
NS Global Rank: G5
NS State Rank: AL (S3), AR (S5), IN (S1), KY (S1), LA (S5), MO (S2), MS (S5), OK (S1), TN (S5), TX (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	2,898.3	< 1	114.6	< 1	0.0	0	0.0	0
Status 2	48,055.2	2	1,013.0	< 1	0.0	0	512.3	< 1
Status 3	0.0	0	51,714.0	2	0.0	0	1,158.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	50,953.5	2	52,841.6	2	0.0	0	1,670.9	< 1

	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	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	988.8	< 1	0.0	0	426.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	988.8	< 1	0.0	0	426.4	< 1

	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	24.3	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	67,442.1	3	0.0	0
Status 3	1,658.2	< 1	1,879.7	< 1	37,335.7	2	0.0	0
Status 4	0.0	0	0.0	0	2,224.7	< 1	0.0	0
Total	1,658.2	< 1	1,904.0	< 1	107,002.5	5	0.0	0

	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,261.7	< 1	0.0	0	0.0	0
Status 2	430.0	< 1	8,926.9	< 1	0.0	0	39.6	< 1
Status 3	0.0	0	438.2	< 1	1.4	< 1	11,210.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	430.0	< 1	10,626.8	< 1	1.4	< 1	11,250.5	< 1

	Private Land - No Res.		Water		Overall Total	
	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	4,298.9	< 1
Status 2	0.0	0	0.0	0	126,419.2	5
Status 3	0.0	0	0.0	0	106,811.8	7
Status 4	2,005,972.4	87	6,944.1	< 1	2,017,365.9	87
Total	2,005,972.4	87	6,944.1	< 1	2,254,895.8	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: Amphiuma tridactylum is completely aquatic. It occurs in Coastal Plain habitats and prefers semipermanent or permanent water habitats with abundant vegetation and soil suitable for burrowing. They can be found in drainage ditches, swamps, sloughs, bayous, sluggish streams and semi-permanent ponds lakes, and floodplains (Petranka). Found in unpolluted waters. S. Smith 18Feb05

Hydrography Mask:

Freshwater Only

Slow Current Only

Utilizes flowing water features with buffer of unlimited into selected water features.

Utilizes open water features with buffer of unlimited into selected water features.

Utilizes wet vegetation features with buffer of unlimited into selected vegetation features.

Selected Map Units:

Functional Group	Map Unit Name
Water	Open Water (Fresh)
Wetlands	East Gulf Coastal Plain Interior Shrub Bog
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 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	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

CITATIONS:

Petranka, J. W. 1998. Salamanders of the United States and Canada. Washington DC: Smithsonian Inst. Press.

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Compiled: 15 September 2011

This data was compiled and/or developed by the Southeast GAP Analysis Project at The Biodiversity and Spatial Information Center, North Carolina State University.