



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Tellico Salamander

Plethodon aureolus

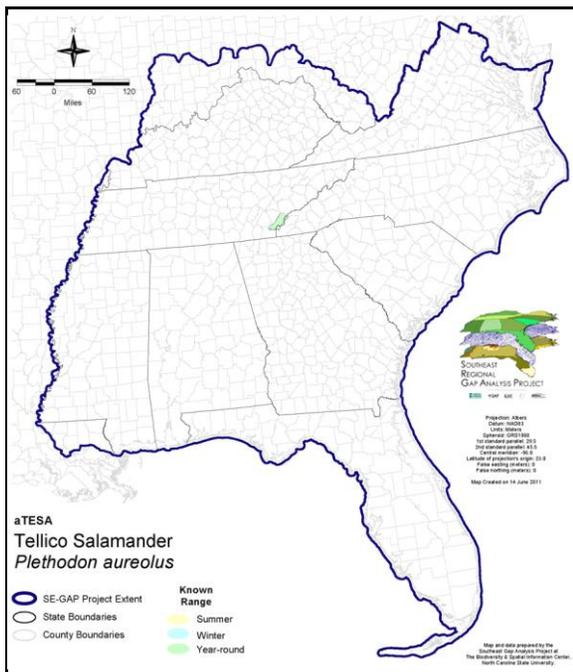
Taxa: Amphibian
 Order: Caudata
 Family: Plethodontidae

SE-GAP Spp Code: **aTESA**

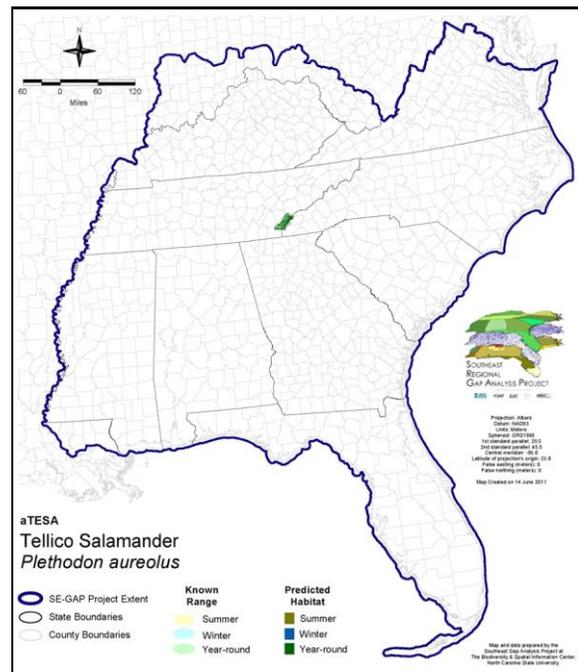
ITIS Species Code: 208280

NatureServe Element Code: AAAAD12250

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/aTESA_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---
 State Status: NC (SR)
 NS Global Rank: G2G3
 NS State Rank: NC (S2), TN (S2S3)

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	0.0	0	8,537.9	7	0.0	0	0.0	0
Status 2	0.0	0	6,611.4	6	0.0	0	0.0	0
Status 3	0.0	0	41,860.7	36	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	57,010.0	49	0.0	0	0.0	0
	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	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	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	0.9	< 1	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.9	< 1	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	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	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	8,537.9 7			
Status 2	0.0	0	0.0	0	6,612.3 6			
Status 3	0.0	0	0.0	0	41,860.7 72			
Status 4	17,493.5	15	1.1	< 1	17,494.6 15			
Total	17,493.5	15	1.1	< 1	74,505.4 100			

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.

PREDICTED HABITAT MODEL(S):

Year-round Model:

Habitat Description: The Tellico salamander occurs on and around the Unicoi mountain range on the border of North Carolina and Tennessee (Wilson 1995). It is found in shaded stream valley woodlands and adjacent uplands (Redmond and Scott 1996). Both deciduous and coniferous forests are used, but deciduous stands appear to be preferred (Wilson 1995). Highest abundance is in the vicinity of bottomlands with leaf litter, rotting logs and organic soils layer (Wilson 1995). Eggs are deposited on land under logs or litter (Wilson 1995).
Stacy Smith, 15April05

Selected Map Units:

Functional Group	Map Unit Name
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central and Southern Appalachian Spruce-Fir Forest
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 Appalachian Montane Pine Forest and Woodland

- CITATIONS:** Carr, D. E. 1996. Morphological variation among species and populations of salamanders in the PLETHODON GLUTINOSUS complex. *Herpetologica* 52:56-65.
- Highton, R. 1986. PLETHODON AUREOLUS. *Catalogue of American Amphibians and Reptiles* 381:1.
- Highton, R., G. C. Maha, and L. R. Maxson. 1989. Biochemical evolution in the slimy salamanders of the PLETHODON GLUTINOSUS complex in the eastern United States. *Illinois Biological Monographs* 57:1-153.
- Redmond, W. H., and A. F. Scott. 1996. *Atlas of amphibians in Tennessee*. The Center for Field Biology, Austin Peay State University, Miscellaneous Publication Number 12. v + 94 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 by the Southeast GAP Analysis Project at The Biodiversity and Spatial Information Center, North Carolina State University.