



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Gulf Coast Toad

Bufo valliceps

Taxa: Amphibian

Order:

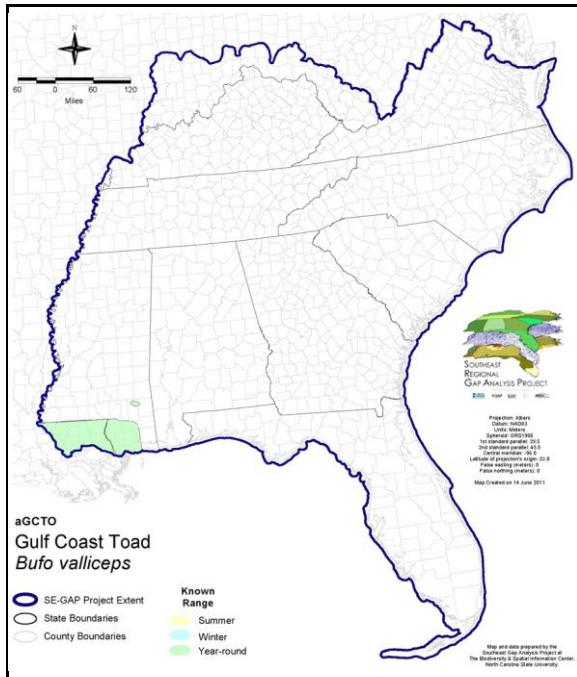
Family:

SE-GAP Spp Code: **aGCTO**

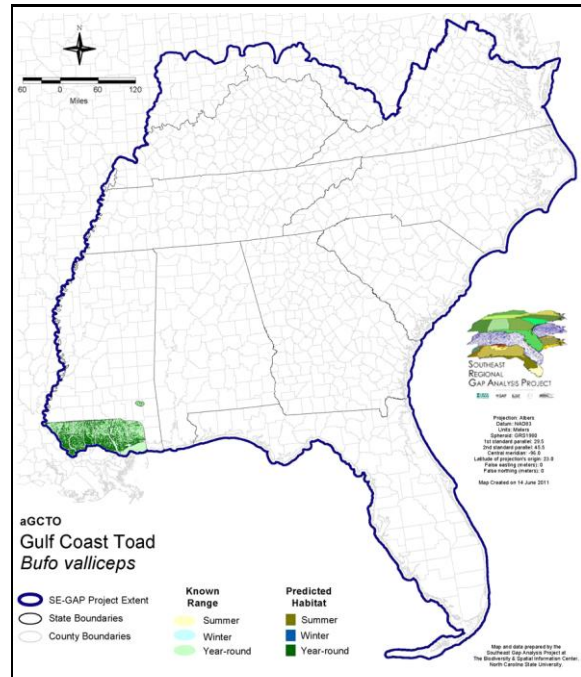
ITIS Species Code: 173494

NatureServe Element Code: AAABB01170

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/aGCTO_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: ---

NS Global Rank: ---

NS State Rank: ---

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	336.2	< 1	3.9	< 1	0.0	0	0.0	0
Status 2	6.8	< 1	175.7	< 1	0.0	0	0.0	0
Status 3	0.0	0	4,194.7	2	0.0	0	941.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	342.9	< 1	4,374.3	2	0.0	0	941.7	< 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	75.0	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	3,656.7	1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	75.0	< 1	0.0	0	3,656.7	1
	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	51.3	< 1	23.5	< 1	0.0	0
Status 3	0.0	0	55.4	< 1	2,005.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	381.2	< 1	0.0	0
Total	0.0	0	106.7	< 1	2,410.1	< 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	2,586.5	< 1	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	2,586.5	< 1	0.0	0	0.0	0	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	340.0	< 1		
Status 2	0.0	0	0.0	0	2,918.7	1		
Status 3	0.0	0	0.0	0	10,853.9	6		
Status 4	252,904.7	93	145.5	< 1	253,812.7	93		
Total	252,904.7	93	145.5	< 1	267,925.3	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.

PREDICTED HABITAT MODEL(S):

Year-round Model:

Habitat Description: A ubiquitous species of open habitats, the Gulf Coast toad has an extensive lowland distribution where it is almost invariably found in savannas and disturbed areas of secondary growth (Mulcahy and Mendelson 2000, Mendelson 1998). This species also appears to prevail in agricultural areas, urban settings, coastal prairies and on barrier islands, however it is uncommon in pinelands (Dundee and Rossman 1989, Conant & Collins 1998) and is absent in all areas above 1700m in elevation (Mendelson 1998). Breeding sites for the Gulf Coast toad commonly include temporary pools, roadside ditches, and shallow-flowing streams (Dundee and Rossman 1989, Conant and Collins 1998). Amy Silvano, 06 Jan 05.

NOTE: This species' name should be changed to *Bufo nebulifer* according to Mulcahy and Mendelson (2000) who split *Bufo valliceps* into the population endemic to Mexico. The common name for the US population is also changed to Coastal-plain (or Coastal Plain) Toad in ARMI Atlas, but many other sources keep the common name Gulf Coast Toad.

Elevation Mask: < 1700m

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Developed Open Space
Anthropogenic	Low Intensity Developed
Anthropogenic	Medium Intensity Developed
Anthropogenic	Pasture/Hay
Anthropogenic	Row Crop
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)
Coastal Dune & Freshwater Wetland	East Gulf Coastal Plain Dune and Coastal Grassland
Forest/Woodland	East Gulf Coastal Plain Maritime Forest
Forest/Woodland	Mississippi Delta Maritime Forest
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 Treeless Savanna and Wet Prairie

- CITATIONS:** Conant, R. and J.T. Collins. 1998. A field guide to the reptiles and amphibians: eastern and central North America. Houghton Mifflin, Boston. 616 p.
- Dundee, H. A., and D. A. Rossman. 1989. The amphibians and reptiles of Louisiana. Louisiana State Univ. Press, Baton Rouge.
- Mendelson, J. R., III. 1998. Geographic variation in *Bufo valliceps* (Anura: Bufonidae), a widespread toad in the United States and Middle America. *Sci. Pap. Nat. Hist. Mus. Univ. Kansas* 8: 1–12.
- Mulcahy, D. G., and J. R. Mendelson III. 2000. Phylogeny and speciation of the morphologically variable, widespread species *Bufo valliceps*, based on molecular evidence from mtDNA. *Molecular Phylogenetics and Evolution*. 17(2). 173-189.

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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.