

SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

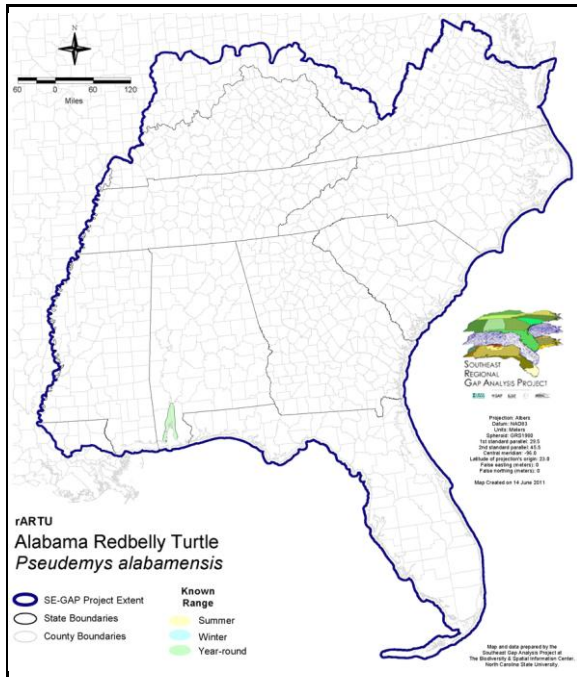
Alabama Redbelly Turtle

Pseudemys alabamensis

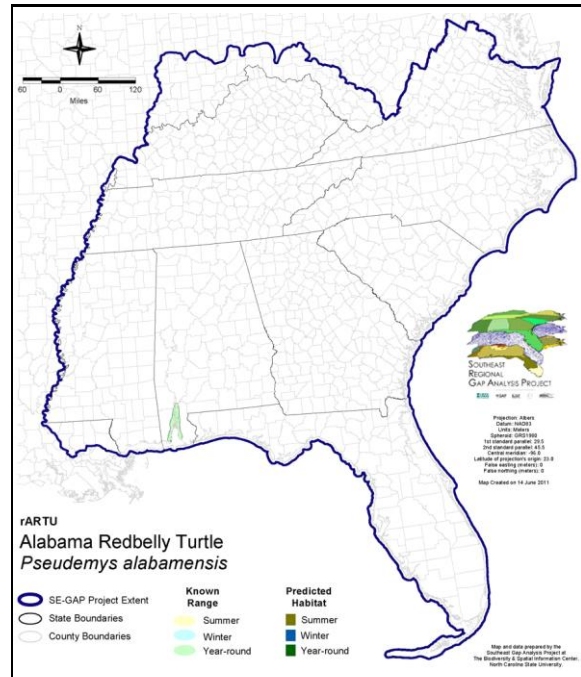
Taxa: Reptilian
 Order: Cryptodeira
 Family: Emydidae

SE-GAP Spp Code: **rARTU**
 ITIS Species Code: 173804
 NatureServe Element Code: ARAAD07010

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rARTU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: LE
 State Status: AL (SP), MS (LE)
 NS Global Rank: G1
 NS State Rank: AL (S1), MS (S1)

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	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
	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	1.4	<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	1.4	<1	0.0	0
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4.4	<1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	83.5	2	0.0	0
Status 3	0.0	0	0.0	0	50.2	1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	4.4	<1	133.7	3	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	3.0	<1	0.0	0	0.0	0
Status 2	0.0	0	4.8	<1	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	7.7	<1	0.0	0	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	7.4	<1		
Status 2	0.0	0	0.0	0	89.7	2		
Status 3	0.0	0	0.0	0	50.2	1		
Status 4	4,054.3	91	250.2	6	4,304.5	97		
Total	4,054.3	91	250.2	6	4,451.9	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: Alabama redbelly turtles are endemic to Mobile Bay, Alabama where they are found primarily in the shallow depths of vegetative backwaters of freshwater rivers, streams, bays, and bayous (Nelson & Turner 2004, Ernst et al. 1994). They nest on sand spoil banks, natural levees, and along river (Dobie and Bagley 1988, Nelson 2003, in NatureServe 2005). Amy Silvano 7jul05

Ecosystem Classifiers: Aquatic species, only terrestrial systems selected apply to nesting habitat, select in addition to those in hydro buffer. Amy Silvano 7jul05

Hydrography Mask:

Freshwater Only

Slow Current Only

Utilizes flowing water features with buffers of 60m from and unlimited into selected water features.

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Bare Sand
Anthropogenic	Bare Soil
Beach	Unconsolidated Shore (Beach/Dune)
Water	Open Water (Fresh)
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Herbaceous Modifier
Wetlands	East Gulf Coastal Plain Small Stream and River Floodplain Forest
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Unconsolidated Shore (Lake/River/Pond)

- CITATIONS:** Dobie, J. L., and F. M. Bagley. 1988. Alabama red-bellied turtle recovery plan. Technical review draft. U.S. Fish and Wildlife Service, Atlanta, Georgia.
- Ernst, C. H., R. W. Barbour, and J. E. Lovich. 1994. Turtles of the United States and Canada. Smithsonian Institution Press, Washington, D.C. xxxviii + 578 pp.
- Nelson, D. H. 2003. Nesting activity in the Alabama redbelly turtle (*Pseudemys alabamensis*) on the Mobile Bay Causeway - final report. 9 pp.
- Nelson, D. H. and Turner, W. M. 2004. Alabama Red-bellied turtle (*Pseudemys alabamensis*). Pages 54-55 in Alabama Wildlife (Volume III), Imperiled Amphibians, Reptiles, Birds and Mammals. Edited by R.E. Mirarchi, M.A. Bailey, T.M. Haggerty and T. L. Best. U

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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.