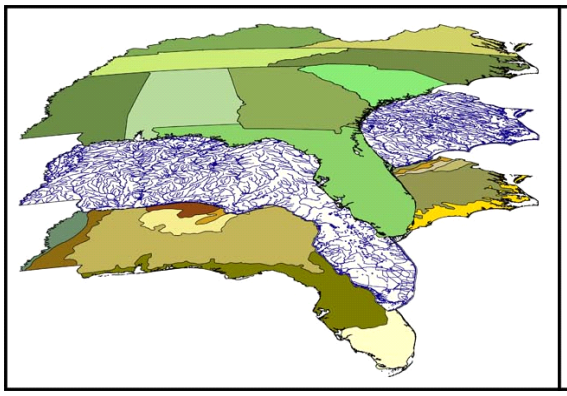


SOUTHEAST GAP ANALYSIS PROJECT

USGS gap BaSIC NARSAL

Species Modeling Report

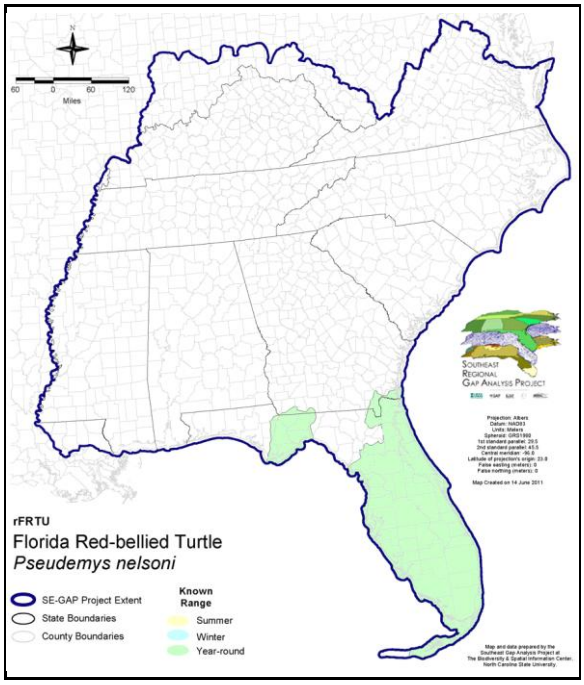
Florida Red-bellied Turtle

Pseudemys nelsoni

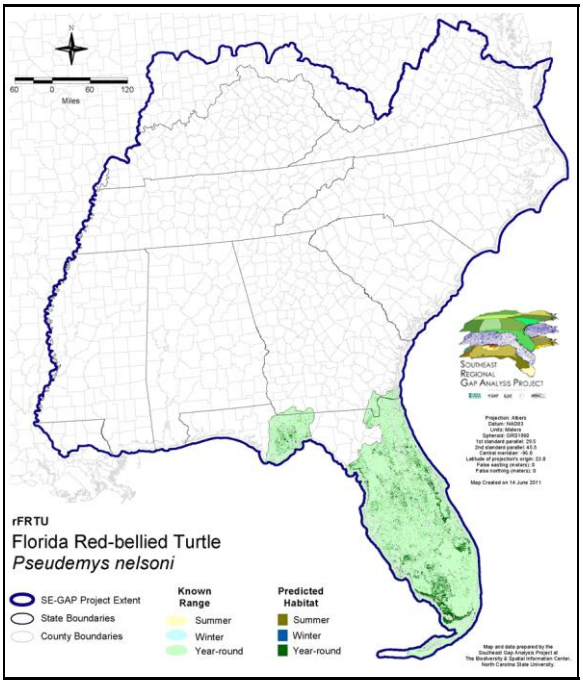
Taxa: Reptilian
Order: Cryptodeira
Family: Emydidae

SE-GAP Spp Code: **rFRTU**
ITIS Species Code: 173813
NatureServe Element Code: ARAAD07040

KNOWN RANGE:



PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_rFRTU.pdf
Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_rFRTU.pdf
GAP Online Tool Link: http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=rFRTU
Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rFRTU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---
State Status: ---
NS Global Rank: G5
NS State Rank: FL (S5), GA (S2), TX (SNA)

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	28,991.2	2	18.7	< 1	0.0	0	0.0	0
Status 2	10,637.1	< 1	10,270.4	< 1	0.0	0	0.0	0
Status 3	3.0	< 1	51,966.5	3	0.0	0	4,961.3	< 1
Status 4	4.9	< 1	0.0	0	0.0	0	0.0	0
Total	39,636.1	3	62,255.6	4	0.0	0	4,961.3	< 1

	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	167,187.0	11	0.0	0	2,806.8	< 1
Status 2	0.0	0	2,862.0	< 1	12,531.0	< 1	4.6	< 1
Status 3	0.0	0	116,292.3	8	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	286,341.3	19	12,531.0	< 1	2,811.4	< 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	94.4	< 1	77,615.1	5	0.0	0
Status 3	0.0	0	185,236.7	12	24.1	< 1	47,618.6	3
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	185,331.2	12	77,639.2	5	47,618.6	3

	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	526.1	< 1	1,074.2	< 1	0.0	0	573.2	< 1
Status 3	0.0	0	8,782.7	< 1	2,463.8	< 1	20,574.5	1
Status 4	0.0	0	0.0	0	22.7	< 1	0.0	0
Total	526.1	< 1	9,856.9	< 1	2,486.5	< 1	21,147.8	1

	Private Land - No Res.		Water		Overall Total	
	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	199,003.7	13
Status 2	0.0	0	0.0	0	116,188.0	8
Status 3	69.0	< 1	0.0	0	437,992.7	32
Status 4	691,507.4	45	31,461.4	2	722,991.4	47
Total	691,576.4	45	31,461.4	2	1,476,175.8	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: Florida red-bellied turtles will inhabit any type of permanent body of freshwater with a slow or still current, such as ditches, sloughs, marshes, lakes, ponds, gator ponds, spring runs and streams (Bartlett & Bartlett 1999, Ernst et al. 1994). Although they prefer freshwater this species can will also occupy brackish areas of mangrove boordered creeks and lagoons (Ernst et al. 1994, FL-GAP 2003). Nest are made in sandy soils usually, a "moderate" distance from water (Ernts et al. 1994). Amy Silvano 08jul05

Ecosystem Classifiers: Since found in lagoons & mangrove, and can nest away from water. I selected MU's of emergent vegetation classes. Amy Silvano 8jul05

Hydrography Mask:

Slow Current Only

Utilizes flowing water features with buffers of 120m from and 120m into selected water features.

Utilizes open water features with buffers of 120m from and 120m into selected water features.

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

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Bare Sand
Anthropogenic	Bare Soil
Beach	Unconsolidated Shore (Beach/Dune)
Brackish Tidal Marsh & Wetland	Florida Big Bend Salt-Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	South Florida Mangrove Swamp
Brackish Tidal Marsh & Wetland	Southwest Florida Perched Barriers Salt Swamp and Lagoon - Mangrove Modifier
Brackish Tidal Marsh & Wetland	Southwest Florida Perched Barriers Salt Swamp and Lagoon - Marsh Modifier
Freshwater Tidal Marsh & Wetland	Florida Big Bend Fresh-Oligohaline Tidal Marsh
Water	Open Water (Brackish/Salt)
Water	Open Water (Fresh)
Wetlands	Central Florida Herbaceous Pondshore
Wetlands	Central Florida Herbaceous Seep
Wetlands	Floridian Highlands Freshwater Marsh
Wetlands	South Florida Bayhead Swamp
Wetlands	South Florida Cypress Dome
Wetlands	South Florida Freshwater Slough and Gator Hole
Wetlands	South Florida Pond-Apple/Popash Slough
Wetlands	South Florida Willow Head
Wetlands	Southern Coastal Plain Herbaceous Seepage Bog
Wetlands	Southern Coastal Plain Nonriverine Basin Swamp
Wetlands	Southern Coastal Plain Nonriverine Cypress Dome
Wetlands	Southern Coastal Plain Seepage Swamp and Baygall
Wetlands	Southern Coastal Plain Spring-run Stream Aquatic Vegetation
Wetlands	Unconsolidated Shore (Lake/River/Pond)

CITATIONS:

Bartlett, R.D. and P.P. Bartlett. 1999. Field guide to Florida reptiles and amphibians. Gulf Publishing Co, Houston, TX. 280 p.

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.

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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.