



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Escambia Map Turtle

Graptemys ernsti

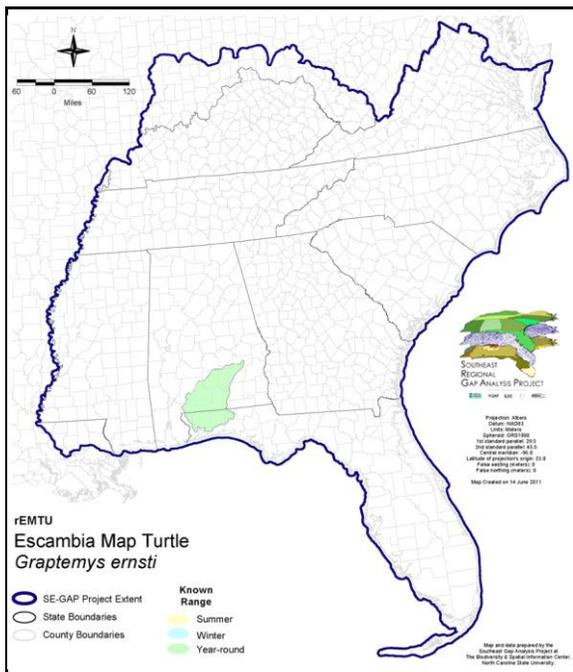
Taxa: Reptilian
 Order: Cryptodeira
 Family: Emydidae

SE-GAP Spp Code: **rEMTU**

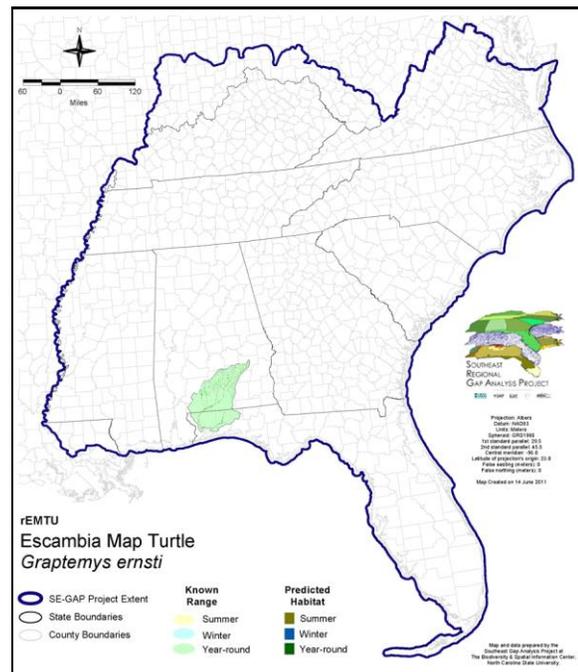
ITIS Species Code: 551768

NatureServe Element Code: ARAAD05120

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/rEMTU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---
 State Status: AL (SP)
 NS Global Rank: G2
 NS State Rank: AL (S2), FL (S2)

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	75.5	< 1	0.0	0	1,594.0	3
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	75.5	< 1	0.0	0	1,594.0	3
	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	0.0	0	0.0	0
Status 3	0.0	0	4,318.7	7	0.0	0	14.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	4,318.7	7	0.0	0	14.2	< 1
	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	66.5	< 1	0.0	0	0.0	0
Status 3	0.0	0	40.7	< 1	58.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	107.2	< 1	58.4	< 1	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0 0			
Status 2	0.0	0	0.0	0	66.5 < 1			
Status 3	0.0	0	0.0	0	6,101.6 10			
Status 4	53,984.3	89	768.4	1	54,752.7 90			
Total	53,984.3	89	768.4	1	60,920.7 100			

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: Escambia map turtle inhabit relatively large, swift creeks and rivers with sandy or gravel bottoms (Ernst et al. 1994). Typically, river characteristics are more alluvial than blackwater but they avoid rivers that lack freshwater mollusks and salt water (NatureServe 2005). Amy Silvano 7jul05

Ecosystem Classifiers: ***Hand Modeling: Exclude Blackwater Systems. Notes: Aquatic species, only terrestrial systems selected apply to nesting habitat. ****Width of stream would be a good layer for predicting this species occurrence in rivers and streams (if categorized would include in medium and large streams/rivers). Flow Accumulation may be a good predictor for this species since it needs wider, moving rivers and streams. Probably could set minimum threshold for accumulation, can't find any literature to support and type of slope, threshold etc., but in CP could probably use min of 5-10. Amy Silvano 7jul05

Hydrography Mask:

Freshwater 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
Water	Open Water (Fresh)
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 Small Stream and River Floodplain Forest
Wetlands	Unconsolidated Shore (Lake/River/Pond)

CITATIONS: 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.