



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Marsh Rabbit

Sylvilagus palustris

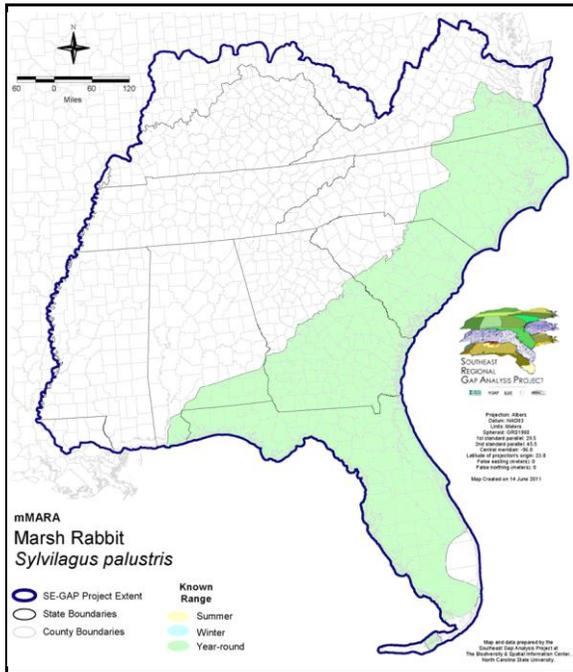
Taxa: Mammalian
Order: Lagomorpha
Family: Leporidae

SE-GAP Spp Code: **mMARA**

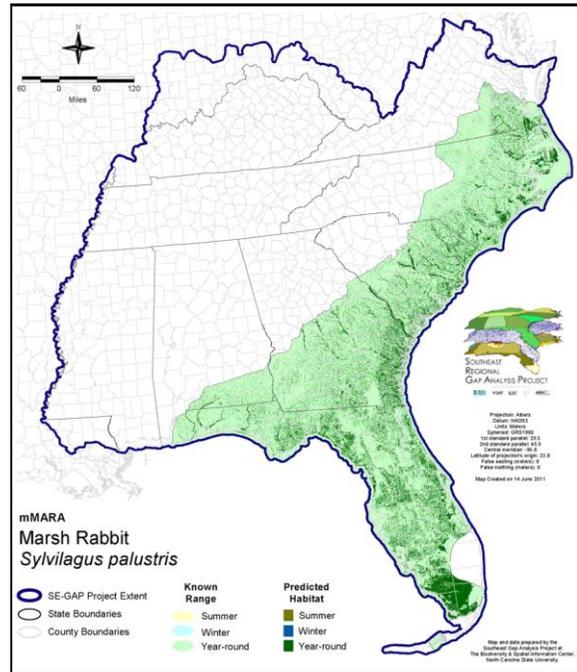
ITIS Species Code: 180120

NatureServe Element Code: AMAEB01030

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/mMARA_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AL (GA), VA (SC)

NS Global Rank: G5

NS State Rank: AL (S3), FL (SNR), GA (S5), NC (S5), SC (SNR), VA (S3)

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	120,416.5	1	4,335.9	< 1	0.0	0	0.0	0
Status 2	122,882.9	1	17,347.1	< 1	0.0	0	267.4	< 1
Status 3	1,405.9	< 1	170,008.6	2	0.0	0	119,195.0	1
Status 4	31.9	< 1	0.0	0	0.0	0	11.2	< 1
Total	244,737.1	3	191,691.6	2	0.0	0	119,473.6	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	356,665.5	4	984.2	< 1	13,910.4	< 1
Status 2	0.0	0	29,933.9	< 1	40,276.4	< 1	35.8	< 1
Status 3	14,804.6	< 1	261,319.3	3	0.0	0	33.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	14,804.6	< 1	647,918.7	7	41,260.7	< 1	13,979.3	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	95.0	< 1	0.0	0	0.0	0
Status 2	0.0	0	720.9	< 1	363,958.4	4	0.0	0
Status 3	0.0	0	385,234.7	4	48,399.6	< 1	123,125.0	1
Status 4	0.0	0	< 0.1	< 1	3,758.5	< 1	4.1	< 1
Total	0.0	0	386,050.7	4	416,116.4	4	123,129.2	1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	72.9	< 1	0.0	0	0.0	0
Status 2	10,378.6	< 1	46,825.9	< 1	0.0	0	1,320.4	< 1
Status 3	0.0	0	12,080.3	< 1	7,540.1	< 1	66,578.7	< 1
Status 4	0.0	0	0.0	0	825.5	< 1	< 0.1	< 1
Total	10,378.6	< 1	58,979.1	< 1	8,365.6	< 1	67,899.2	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	496,480.4 5			
Status 2	0.0	0	0.0	0	633,947.8 7			
Status 3	572.0	< 1	0.2	< 1	1,210,297.1 15			
Status 4	6,882,130.4	73	25,542.0	< 1	6,916,030.3 73			
Total	6,882,702.4	73	25,542.2	< 1	9,256,755.5 100			

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: Marsh rabbits are residents of brackish and occasionally freshwater marshes, where they may nest in sedges at the water's edge. Availability of water is the most important factor limiting the distribution (Blair 1936). They are good swimmers and they inhabit the brakes, wet bottomlands, sea islands, dense hammocks or borders of freshwater lakes, canal banks, lowland meadows, and cypress edges (Brown 1997). There is evidence of use of sandy thickets beside the mangroves of south Florida beaches (Whitaker Jr. and Hamilton Jr. 1999). Swamps and regularly saturated floodplains throughout the Coastal Plain are also used (Webster et al. 1985). This rabbit requires homogeneous habitat conditions and fragmentation of forested bottomlands is thought to be a major problem to population stability in many areas (Whitaker and Hamilton 1998). They do not occupy burrows and nests are usually in grassy vegetation adjacent to water bodies. The average home range is 4.25 ha for males 3.58 ha for females. They probably breed year-round in Georgia and south Florida. Gestation lasts 30-37 days (Holler and Conaway 1979). The average litter size is 3-5 and 6-7 litters may be produced per year. Stacy Smith, 14June05

Avoidance Mask: Medium - moderately intolerant of human disturbance.

Hydrography Mask:

Utilizes open water features with buffer of 120m from selected water features.

Utilizes wet vegetation features with buffers of 120m from and unlimited into selected vegetation features.

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Pasture/Hay
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)
Beach	Atlantic Coastal Plain Sea Island Beach
Beach	Florida Panhandle Beach Vegetation
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Central Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Indian River Lagoon Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Sea-Level Fen
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Tidal Salt Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Southern Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	East Gulf Coastal Plain Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	Florida Big Bend Salt-Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Mississippi Sound Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	South Florida Everglades Sawgrass 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
Coastal Dune & Freshwater Wetland	Atlantic and Gulf Coastal Plain Interdunal Wetland
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Northern Dune and Maritime Grassland
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Southern Dune and Maritime Grassland
Coastal Dune & Freshwater Wetland	East Gulf Coastal Plain Dune and Coastal Grassland
Coastal Dune & Freshwater Wetland	Southwest Florida Dune and Coastal Grassland
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest
Forest/Woodland	Atlantic Coastal Plain Northern Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Southern Mesic Slope Forest

Forest/Woodland	Mississippi Delta Maritime Forest
Forest/Woodland	Southeast Florida Coastal Strand and Maritime Hammock
Forest/Woodland	Southwest Florida Coastal Strand and Maritime Hammock
Freshwater Tidal Marsh & Wetland	Atlantic Coastal Plain Central Fresh-Oligohaline Tidal Marsh
Freshwater Tidal Marsh & Wetland	Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh
Freshwater Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Fresh and Oligohaline Tidal Marsh
Freshwater Tidal Marsh & Wetland	Florida Big Bend Fresh-Oligohaline Tidal Marsh
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest
Wetlands	Atlantic Coastal Plain Clay-Based Carolina Bay Herbaceous Wetland
Wetlands	Atlantic Coastal Plain Depression Pondshore
Wetlands	Atlantic Coastal Plain Large Natural Lakeshore
Wetlands	Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Taxodium/Nyssa Modifier
Wetlands	Atlantic Coastal Plain Peatland Pocosin
Wetlands	Atlantic Coastal Plain Small Blackwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods
Wetlands	Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin, and Baygall
Wetlands	Central Florida Herbaceous Pondshore
Wetlands	Central Florida Herbaceous Seep
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 Northern Depression Pondshore
Wetlands	East Gulf Coastal Plain Northern Seepage Swamp
Wetlands	East Gulf Coastal Plain Treeless Savanna and Wet Prairie
Wetlands	Floridian Highlands Freshwater Marsh
Wetlands	Lower Mississippi River Bottomland and Floodplain Forest
Wetlands	Lower Mississippi River Bottomland Depressions - Forest Modifier
Wetlands	Lower Mississippi River Bottomland Depressions - Herbaceous Modifier
Wetlands	Mississippi River Low Floodplain (Bottomland) Forest
Wetlands	Mississippi River Riparian Forest
Wetlands	South Florida Bayhead Swamp
Wetlands	South Florida Cypress Dome
Wetlands	South Florida Dwarf Cypress Savanna
Wetlands	South Florida Freshwater Slough and Gator Hole
Wetlands	South Florida Hardwood Hammock
Wetlands	South Florida Pond-Apple/Popash Slough
Wetlands	South Florida Willow Head
Wetlands	Southern Coastal Plain Herbaceous Seepage Bog
Wetlands	Southern Coastal Plain Hydric Hammock
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

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For more information:: SE-GAP Analysis Project / BaSIC
127 David Clark Labs
Dept. of Biology, NCSU
Raleigh, NC 27695-7617
(919) 513-2853
www.basic.ncsu.edu/segap

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The Biodiversity and Spatial Information
Center, North Carolina State University.