



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Fisher

*Martes pennanti*

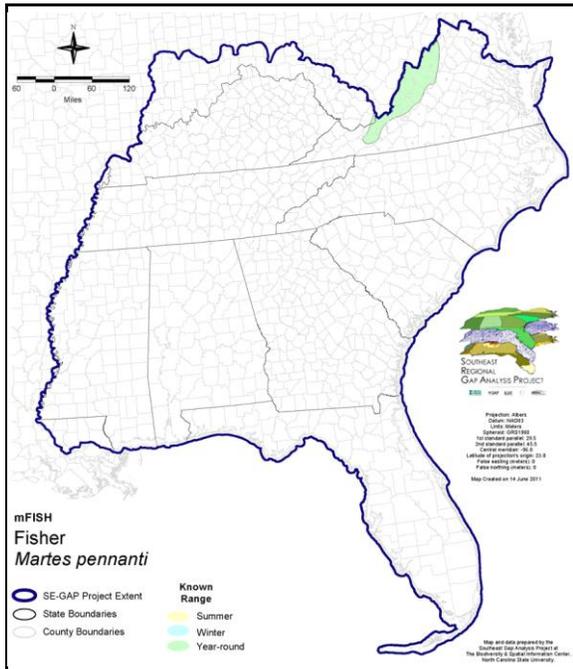
Taxa: Mammalian  
 Order: Carnivora  
 Family: Mustelidae

SE-GAP Spp Code: **mFISH**

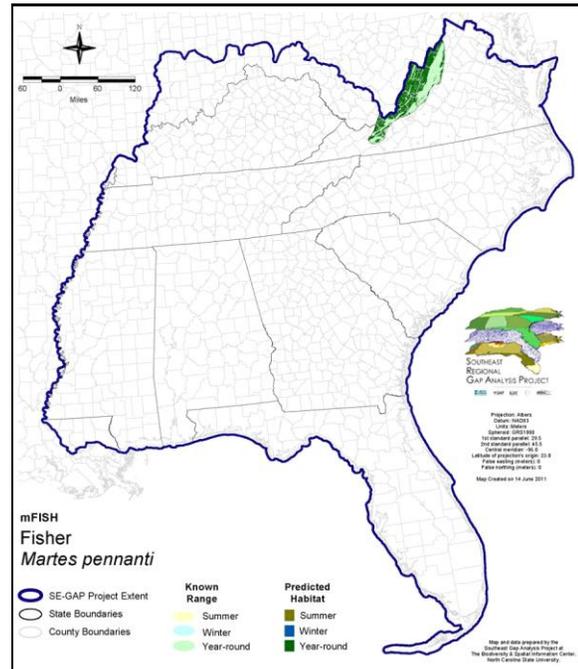
ITIS Species Code: 180560

NatureServe Element Code: AMAJF01020

#### KNOWN RANGE:



#### PREDICTED HABITAT:



Range Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Range\\_mFISH.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_mFISH.pdf)

Predicted Habitat Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Dist\\_mFISH.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_mFISH.pdf)

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/mFISH\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/mFISH_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: ID (G), IN (SX), NJ (N/A), NY (GS), OH (X), OR (SC), RI (Concern), UT (None), WA (E), BC (2 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: CA (S3S4), CT (S2), IA (SX), ID (S1), IL (SX), IN (SX), MA (S4), MD (S3S4), ME (S5), MI (S4), MN (SNR), MT (S3), NC (SX), ND (S2), NH (S5), NJ (SNR), NY (S4), OH (SX), OR (S2), PA (S2S4), RI (S1), TN (S1), UT (SNA), VA (S1), VT (S5), WA (SH), WI (S5), WV (S3), WY (S1), AB (S4), BC (S2S3), LB (SNA), MB (S5), NB (S5), NS (S2), NT (SNR), ON (S5), QC (S5), SK (S4S5), YT (S1S2)

**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	916.6	< 1	0.0	0	0.0	0
Status 2	0.0	0	111,731.7	11	0.0	0	0.0	0
Status 3	0.0	0	290,898.2	28	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	403,546.4	38	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	5,669.5	< 1	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	65.1	< 1	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	5,734.5	< 1	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	23,541.8	2	0.0	0
Status 3	0.0	0	1,690.7	< 1	0.0	0	78.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	1,690.7	< 1	23,541.8	2	78.6	< 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	689.1	< 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	1.5	< 1	0.0	0
Total	0.0	0	689.1	< 1	1.5	< 1	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	6,586.0	< 1		
Status 2	0.0	0	0.0	0	135,962.6	13		
Status 3	0.0	0	0.0	0	292,732.5	55		
Status 4	330,948.9	31	5.2	< 1	330,955.7	31		
Total	330,948.9	31	5.2	< 1	766,236.8	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: Fishers prefer large tracts of forested lands. In particular, northern hardwood-conifer forests with high canopies are preferred and generally forests with little canopy cover and open areas are avoided (Powell 1981, Webster et al. 1985). This species will utilize upland and lowland forests, including coniferous, mixed, and deciduous forests. Occurs primarily in dense coniferous or mixed forests, including early successional forest with dense overhead cover (Thomas et al. 1993). Commonly uses hardwood stands in summer but prefers coniferous or mixed forests in winter (NatureServe 2005). Amy Silvano 24jun05

\*\*Partional sections quoted directly from NatureServe comments. Amy Silvano 24jun05

Ecosystem Classifiers: Mixed, Hardwood, Montane, Mesic Cove, Swamps, Shrub/Scrub, Riparian. Amy Silvano 24jun05

Contiguous Patch Minimum Size (hectares): 99

### Selected Map Units:

Functional Group	Map Unit Name
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central and Southern Appalachian Spruce-Fir Forest
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest-Hardwood Modifier
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Appalachian Montane Pine Forest and Woodland
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	North-Central Appalachian Acidic Swamp
Wetlands	North-Central Appalachian Seepage Fen
Wetlands	North-Central Interior and Appalachian Rich Swamp
Wetlands	Southern and Central Appalachian Bog and Fen

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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.