



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

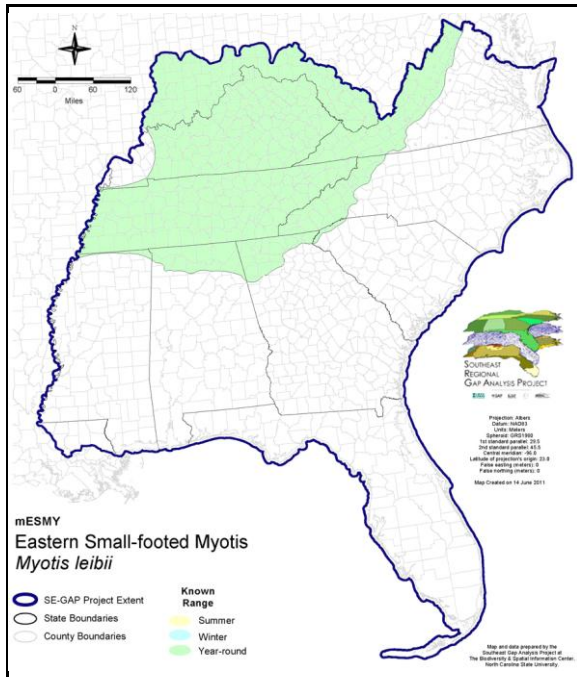
Eastern Small-footed Myotis

Myotis leibii

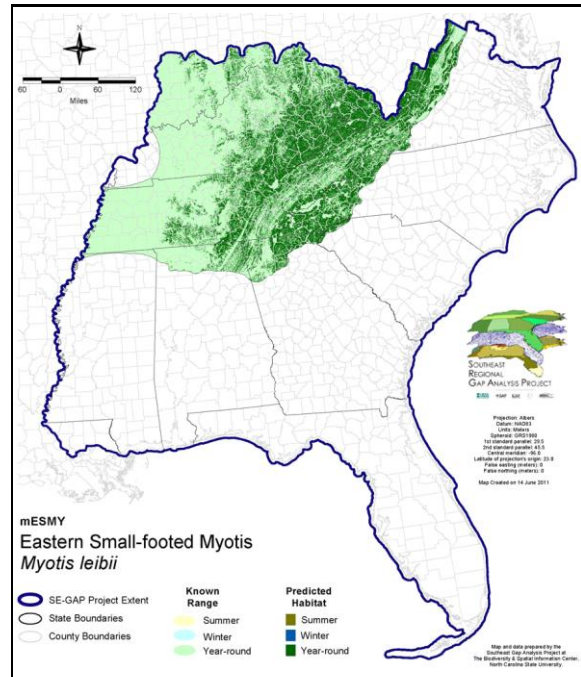
Taxa: Mammalian
 Order: Chiroptera
 Family: Vespertilionidae

SE-GAP Spp Code: **mESMY**
 ITIS Species Code: 179999
 NatureServe Element Code: AMACC01130

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/mESMY_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (SC*), KY (T), MA (SC), MD (E), ME (SC), NC (SC), NH (E), NJ (SC), NY (SC), OH (SC), OK (Category II), PA (PT), SC (ST-Threatened), TN (D), VT (T), QC (Susceptible)

NS Global Rank: G3

NS State Rank: AL (S1), AR (S1), CT (SHN), DE (SU), GA (S2?), KY (S2), MA (S1), MD (S1), ME (S1S2), MO (SU), NC (S2), NH (S1), NJ (S3), NY (S2), OH (SH), OK (S1), PA (S1B,S1N), SC (S1), TN (S2S3), VA (S2), VT (S1), WV (S1), ON (S2S3), QC (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	158.0	< 1	20,551.1	< 1	0.0	0	0.0	0
Status 2	0.0	0	260,674.3	2	0.0	0	0.0	0
Status 3	0.0	0	1,305,757.4	11	24,399.0	< 1	12,456.8	< 1
Status 4	24.4	< 1	0.0	0	0.0	0	0.0	0
Total	182.3	< 1	1,586,982.9	13	24,399.0	< 1	12,456.8	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	143,010.6	1	0.0	0	0.0	0
Status 2	0.0	0	10,858.3	< 1	0.0	0	0.0	0
Status 3	9,056.6	< 1	60,513.1	< 1	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	9,056.6	< 1	214,382.1	2	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	516.2	< 1	23.5	< 1	0.0	0
Status 2	0.0	0	17,145.4	< 1	173,509.8	1	1,284.7	< 1
Status 3	15,500.6	< 1	34,210.4	< 1	43,630.1	< 1	12,535.8	< 1
Status 4	0.0	0	0.0	0	8,755.0	< 1	0.0	0
Total	15,500.6	< 1	51,872.0	< 1	225,918.5	2	13,820.5	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,898.3	< 1	0.0	0	0.0	0
Status 2	0.0	0	33,488.9	< 1	0.0	0	686.3	< 1
Status 3	0.0	0	1,033.6	< 1	905.9	< 1	0.0	0
Status 4	0.0	0	2.1	< 1	228.0	< 1	0.0	0
Total	0.0	0	44,422.8	< 1	1,133.8	< 1	686.3	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	174,157.7 1			
Status 2	0.0	0	0.0	0	497,647.7 4			
Status 3	0.0	0	0.0	0	1,519,999.3 23			
Status 4	8,706,265.0	71	2,212.3	< 1	8,726,217.4 71			
Total	8,706,265.0	71	2,212.3	< 1	10,918,022.1 100			

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: Habitat is mostly hilly or mountainous areas, in or near deciduous or evergreen forest, sometimes in open farmland (NatureServe 2005). Summer roost sites have been found in crevices of rock outcrops and boulders, shallow caves, holes and crevices in earthen banks, hollow trees and barns (Lee et al. 1982; Webster et al. 1985; Whitaker and Hamilton 1998). In the southern Appalachians, roosts have also been found in hemlock forest (Webster et al. 1985). Unpublished data from the Kentucky Heritage Program indicate that summer roosts include caves, coal mines, buildings, and bridges over rivers (in expansion joints). Warm-season roosts include buildings, hollow trees, spaces under loose bark, etc. Tuttle (1964) reported two individuals found in April in Tennessee under a large flat rock at the edge of a quarry surrounded by woods and cow pastures. ***Seperate quotes taken directly form State Habitat Notes (NC-Gap & NatureServe) Amy Silvano 16jun05

Forage over small ponds & streams, as well as along cliffs and ledges and wooded areas (Choate et al. 1994, NatureServe 2005)

Ecosystem Classifiers: Evergreen, Mixed, hardwood, Mesic, Ocve & montane, Calcarous Glades and Woodlands, Dec. Plantations, open water, wetlands, floodplain riparian. Amy Silvano 16jun05

Elevation Mask: > 240m and < 2500m

Hydrography Mask:

Freshwater Only

Utilizes open water features with buffers of unlimited from and 500m into selected water features.

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	Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Appalachian Serpentine Woodland
Forest/Woodland	Appalachian Shale Barrens
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central Appalachian Alkaline Glade and Woodland
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	Central Appalachian Pine-Oak Rocky Woodland
Forest/Woodland	Central Interior Highlands Calcareous Glade and Barrens
Forest/Woodland	Cumberland Sandstone Glade and Barrens
Forest/Woodland	East Gulf Coastal Plain Limestone Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood Modifier
Forest/Woodland	Nashville Basin Limestone Glade
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	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	South-Central Interior Mesophytic Forest
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Mafic Glade and Barrens
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Appalachian Low Mountain Pine Forest
Forest/Woodland	Southern Appalachian Montane Pine Forest and Woodland
Forest/Woodland	Southern Interior Low Plateau Dry-Mesic Oak Forest
Forest/Woodland	Southern Interior Low Plateau Dry-Mesic Oak Forest - Evergreen Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier

Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Pine Modifier
Rock Outcrop	Allegheny-Cumberland Sandstone Box Canyon and Rockhouse
Rock Outcrop	Central Interior Acidic Cliff and Talus
Rock Outcrop	Central Interior Calcareous Cliff and Talus
Rock Outcrop	North-Central Appalachian Acidic Cliff and Talus
Rock Outcrop	North-Central Appalachian Circumneutral Cliff and Talus
Rock Outcrop	Southern Appalachian Granitic Dome
Rock Outcrop	Southern Appalachian Montane Cliff
Rock Outcrop	Southern Appalachian Rocky Summit
Rock Outcrop	Southern Appalachian Spray Cliff
Rock Outcrop	Southern Interior Acid Cliff
Rock Outcrop	Southern Interior Calcareous Cliff
Rock Outcrop	Southern Interior Sinkhole Wall
Water	Open Water (Fresh)
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Central Interior Highlands and Appalachian Sinkhole and Depression Pond
Wetlands	Cumberland Riverscour
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier
Wetlands	East Gulf Coastal Plain Northern Seepage Swamp
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	South-Central Interior/Upper Coastal Plain Wet Flatwoods
Wetlands	Western Highland Rim Seepage Fen

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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

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.