

Myotis leibii (Eastern Small-footed Myotis)

Priority 1 Species of Greatest Conservation Need (SGCN)

Class: *Mammalia* (Mammals)

Order: *Chiroptera* (Bats)

Family: *Vespertilionidae* (Common Bats)

General comments:

Northeast endemic with few records from Maine and considered rare throughout its range.

Species Conservation Range Maps for Eastern Small-footed Myotis:

Town Map: [Myotis leibii_Towns.pdf](#)

Subwatershed Map: [Myotis leibii_HUC12.pdf](#)

SGCN Priority Ranking - Designation Criteria:

Risk of Extirpation:

Maine Status: Threatened

State Special Concern or NMFS Species of Concern: NA

Recent Significant Declines: NA

Regional Endemic: NA

High Regional Conservation Priority:

Northeast Endangered Species and Wildlife Diversity Technical Committee:

Risk: No, Data: Yes, Area: Yes, Spec: No, Warrant Listing: Yes, Total Categories with "Yes": 3

Northeast Regional Synthesis (RSGCN):

Responsibility: High, Concern: Very High

NatureServe:

Global Rank: G2

High Climate Change Vulnerability: NA

Understudied rare taxa: NA

Historical: NA

Culturally Significant: NA

Habitats Assigned to Eastern Small-footed Myotis:

Formation Name Boreal Upland Forest

Macrogroup Name Boreal Upland Forest

Habitat System Name: Acadian Low Elevation Spruce-Fir-Hardwood Forest **Notes:** "secondary habitat" for upland forests within its range: documented occurrence

Habitat System Name: Acadian Sub-boreal Spruce Flat **Notes:** "secondary habitat" for upland forests within its range: documented occurrence

Formation Name Cliff & Rock

Macrogroup Name Cliff and Talus

Habitat System Name: Laurentian-Acadian Acidic Cliff and Talus ****Primary Habitat**** **Notes:** "primary habitat" for ledge roosts & some hibernacula within its range: documented occurrence

Habitat System Name: Laurentian-Acadian Calcareous Cliff and Talus **Notes:** "secondary habitat" for ledge roosts & some hibernacula within species range: presumed potential occurrence but the habitat availability is primarily north of the documented range of this species in Maine

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Formation Name Developed

Macrogroup Name Extractive

Habitat System Name: Subsurface Mines & Caves ****Primary Habitat**** **Notes:** "primary habitat" for hibernacula within its range: documented occurrence

Formation Name Grassland & Shrubland

Macrogroup Name Outcrop & Summit Scrub

Habitat System Name: Laurentian-Acadian Calcareous Rocky Outcrop **Notes:** "secondary habitat" for ledge roosts & some hibernacula within species range: presumed potential occurrence but the habitat availability is primarily north of the documented range of this species in Maine

Habitat System Name: Northern Appalachian-Acadian Rocky Heath Outcrop ****Primary Habitat**** **Notes:** "primary habitat" for ledge roosts & some hibernacula within its range: documented occurrence

Formation Name Northeastern Upland Forest

Macrogroup Name Central Oak-Pine

Habitat System Name: Central Appalachian Dry Oak-Pine Forest **Notes:** "secondary habitat" for upland forests within its range: documented occurrence

Habitat System Name: Central Appalachian Pine-Oak Rocky Woodland **Notes:** "secondary habitat" for upland forests within its range: documented occurrence

Habitat System Name: North Atlantic Coastal Plain Hardwood Forest **Notes:** "secondary habitat" for upland forests within its range: presumed occurrence (2005) but undocumented & dubious affinity for this coastal plain woodland

Macrogroup Name Exotic Upland Forest

Habitat System Name: Introduced Upland Vegetation - Tree **Notes:** "secondary habitat" for upland forests within its range: presumed occurrence (2005) but undocumented & dubious affinity for this non-native woodland

Macrogroup Name Northern Hardwood & Conifer

Habitat System Name: Appalachian (Hemlock)-Northern Hardwood Forest **Notes:** "secondary habitat" for upland forests within its range: presumed occurrence

Habitat System Name: Laurentian-Acadian Northern Hardwoods Forest **Notes:** "secondary habitat" for upland forests within its range: documented occurrence

Habitat System Name: Laurentian-Acadian Pine-Hemlock-Hardwood Forest **Notes:** "secondary habitat" for upland forests within its range: documented occurrence

Habitat System Name: Northeastern Coastal and Interior Pine-Oak Forest **Notes:** "secondary habitat" for upland forests within its range: presumed occurrence

Stressors Assigned to Eastern Small-footed Myotis:

Stressor Priority Level based on Severity and Actionability		Moderate Severity	High Severity
	Highly Actionable	Medium-High	High
	Moderately Actionable	Medium	Medium-High
	Actionable with Difficulty	Low	Low

IUCN Level 1 Threat Energy Production and Mining

IUCN Level 2 Threat: Renewable Energy

Severity: Moderate Severity **Actionability:** Highly actionable

Notes: There is a high probability that the cumulative effects of wind turbine mortalities would have a population level effect on this bat species in Maine.

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IUCN Level 1 Threat **Human Intrusions and Disturbance**

IUCN Level 2 Threat: Recreational Activities

Severity: Moderate Severity **Actionability:** Highly actionable

Notes: Caving activities w/o following disinfection procedures may spread WNS; also found on talus slopes but encounters with hikers would be rare.

IUCN Level 1 Threat **Other Options**

IUCN Level 2 Threat: Lack of knowledge

Severity: Moderate Severity **Actionability:** Highly actionable

Notes: Few records of occurrence in Maine

IUCN Level 1 Threat **Invasive and Other Problematic Species, Genes and Diseases**

IUCN Level 2 Threat: Invasive Non-native-Alien Species-Diseases

Severity: Severe **Actionability:** Actionable with difficulty

Notes: WNS will remain active in the soil for a long time; however, progress is being made in coming up with ways to disinfect hibernacula

Species Level Conservation Actions Assigned to Eastern Small-footed Myotis:

None. *Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.*

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

Relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.