





Species Guide to Vermont Bats

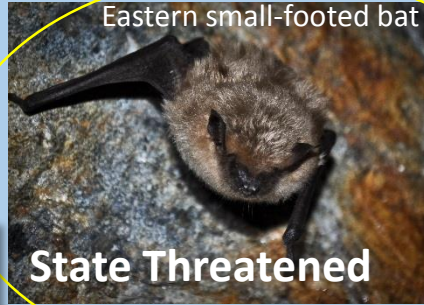
- Vermont has nine species of bats, each relying on specific summer and winter habitats.
- Six species hibernate in caves and mines during the winter (**cave bats**). 
 - During the summer, two species primarily roost in structures (**house bats**), 
 - And four roost in trees and rocky outcrops (**forest bats**). 
- Three species migrate south to warmer climates for the winter and roost in trees during the summer (**migratory bats**). 
- This guide is designed to help familiarize you with the physical characteristics of each species.
- Bats should only be handled by trained professionals with gloves.
- For more information, contact a bat biologist at the Vermont Fish and Wildlife Department or go to www.vtfishandwildlife.com

Vermont's Nine Species of Bats

Cave Bats



Big brown bat



Eastern small-footed bat

State Threatened



Indiana bat

Federally and State Endangered



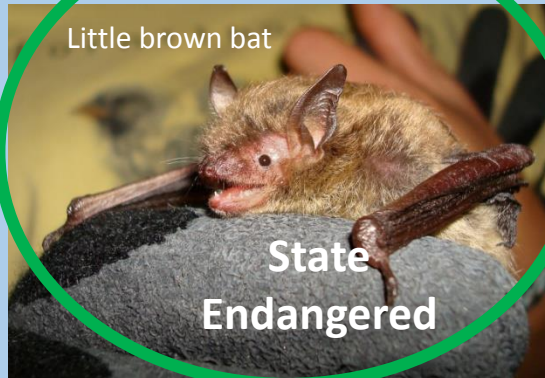
Northern long-eared bat

**Federally Threatened
State Endangered**



Tri-colored bat

State Endangered



Little brown bat

State Endangered

Migratory Tree Bats



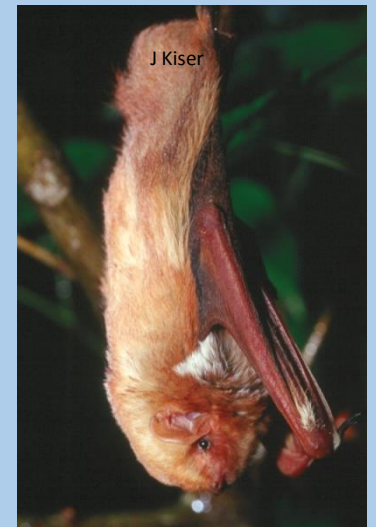
J Kiser

Hoary bat



Silver-haired bat

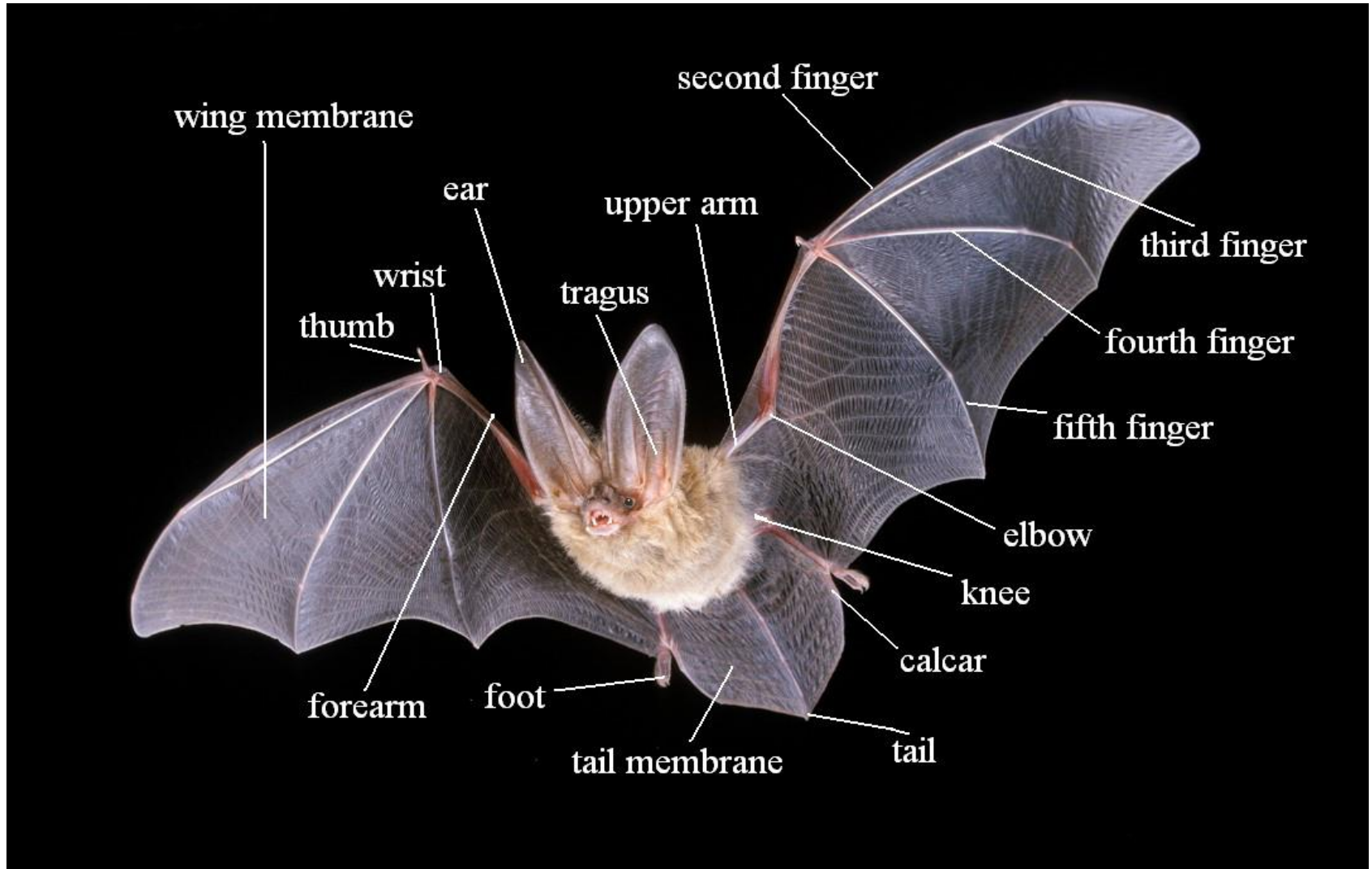
J Chenger



J Kiser

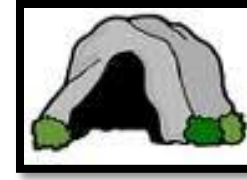
Eastern red bat

Bat Anatomy





House Bats



Big brown bat

Little brown bat



These are the two bat species that are most commonly found in Vermont buildings.

The little brown bat is state endangered, so care must be used to safely exclude unwanted bats from buildings.

Follow the best management practices found at www.vtfishandwildlife.com/wildlife_bats.cfm

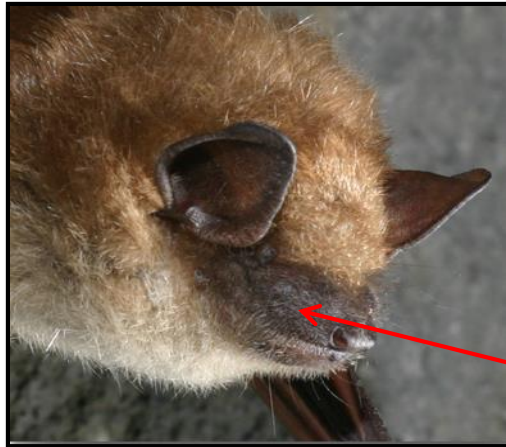


ENDANGERED

House Bats



Big brown bat, *Eptesicus fuscus*



Big thick muzzle



Long silky fur

Weight	13-25 g
Total Length (with Tail)	106 – 127 mm
Wingspan	32 – 35 cm
Forearm	45 – 48 mm
Description	<ul style="list-style-type: none">• Long, glossy brown fur• Belly paler than back• Black wings• Big thick muzzle• Keeled calcar
Similar Species	Little brown bat is much smaller & lacks keeled calcar.

Commonly found in houses during the summer **and winter**

House Bats

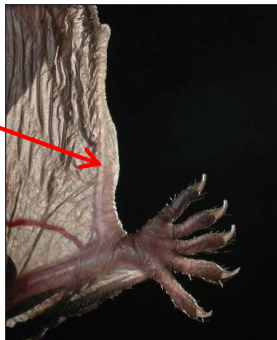


Little brown bat, *Myotis lucifugus*

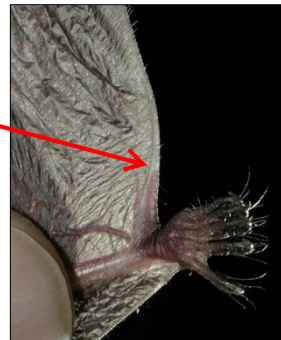
Commonly found in houses during the summer

Weight	4 – 9 g
Total Length (with Tail)	79 – 93 mm
Wingspan	22 – 27 cm
Forearm	35 – 40 mm
Description	<ul style="list-style-type: none"> • Fine brown fur • Belly paler than back • Face, ears, and wings are dark brown • Long hairs on feet extend beyond toes • No keel on calcar
Similar Species	<p>Indiana bat has short toe hair and a keeled calcar.</p> <p>Northern long-eared bat has long ears that extend beyond the muzzle if bent forward.</p> <p>Small-footed bat is much smaller and has a smaller foot and black mask.</p>

Keeled calcar



No keel



Forest Bats

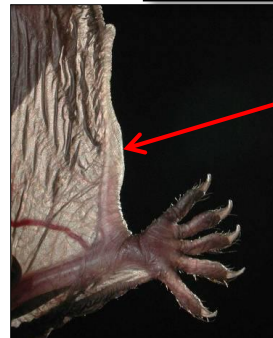


Indiana bat, *Myotis sodalis*

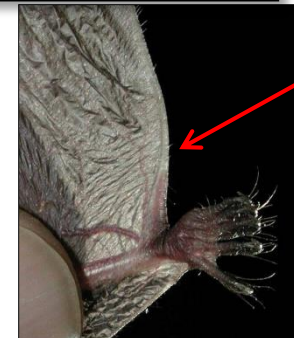
Short pinkish
nose



Weight	5 – 10 g
Total Length (with Tail)	71 – 91 mm
Wingspan	24 – 27 cm
Forearm	36 – 40 mm
Description	<ul style="list-style-type: none"> • Dull, wooly fur uniform grey/brown • Pinkish nose • Short hairs on feet do not extend beyond toes • Keeled calcar
Similar Species	<p>Little brown bat has long toe hair and a no keel on the calcar.</p> <p>Northern long-eared bat has long ears that extend beyond the muzzle if bent forward.</p> <p>Small-footed bat is much smaller and has a smaller foot and black mask.</p>

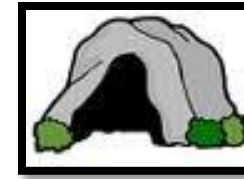


Keeled
calcar



No keel

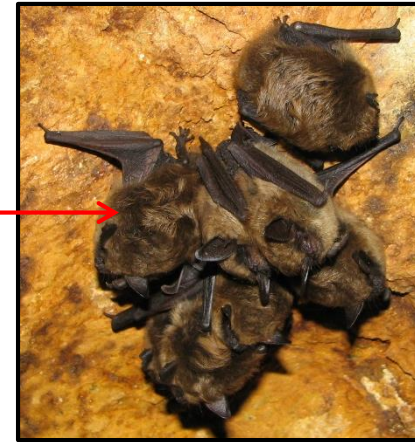
Forest Bats



Eastern small-footed bat, *Myotis leibii*

Weight	4 – 6 g
Total Length (with Tail)	73 – 82 mm
Wingspan	21 – 25 cm
Forearm	31 – 34 mm
Description	<ul style="list-style-type: none">• Black face mask and ears• Dark wings• Long silky hair• Small feet (6.6 - 7 mm)• Keeled calcar
Similar Species	Little brown bat lacks the black mask, has bigger feet, and has no keel on the calcar.

Long silky hair



Black face mask



Forest Bats

Tri-colored bat,
Perimyotis subflavus



ENDANGERED

Tri-colored fur

Pinkish forearms

Weight	4 – 7 g
Total Length (with Tail)	81 – 89 mm
Wingspan	21 – 26 cm
Forearm	32 – 34 mm
Description	<ul style="list-style-type: none">• Yellowish fur is tri-colored: dark at the base, pale in the middle, and dark at the tips• Pinkish forearms• Pale brown face and ears
Similar Species	Other VT bats have bi-colored fur



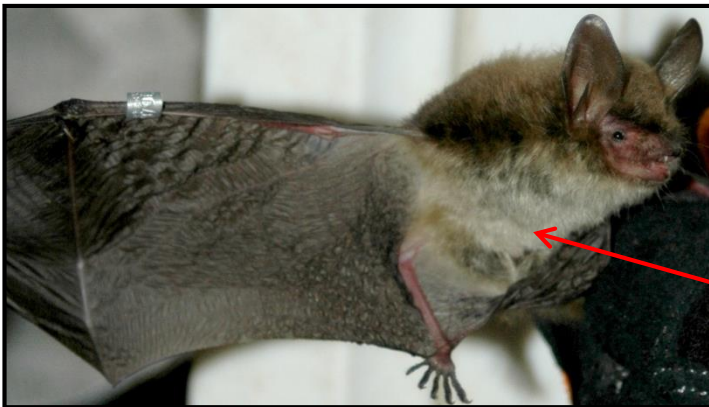
Forest Bats



Northern long-eared bat,
Myotis septentrionalis

Weight	5 – 7 g
Total Length (with Tail)	79 – 88 mm
Wingspan	23 – 26 cm
Forearm	34 – 39 mm
Description	<ul style="list-style-type: none">• Dull brown fur on back, pale belly• Large ears that extend beyond the muzzle if laid forward• Long pointed tragus
Similar Species	Little brown bat has smaller ears and shorter tragus.

ENDANGERED



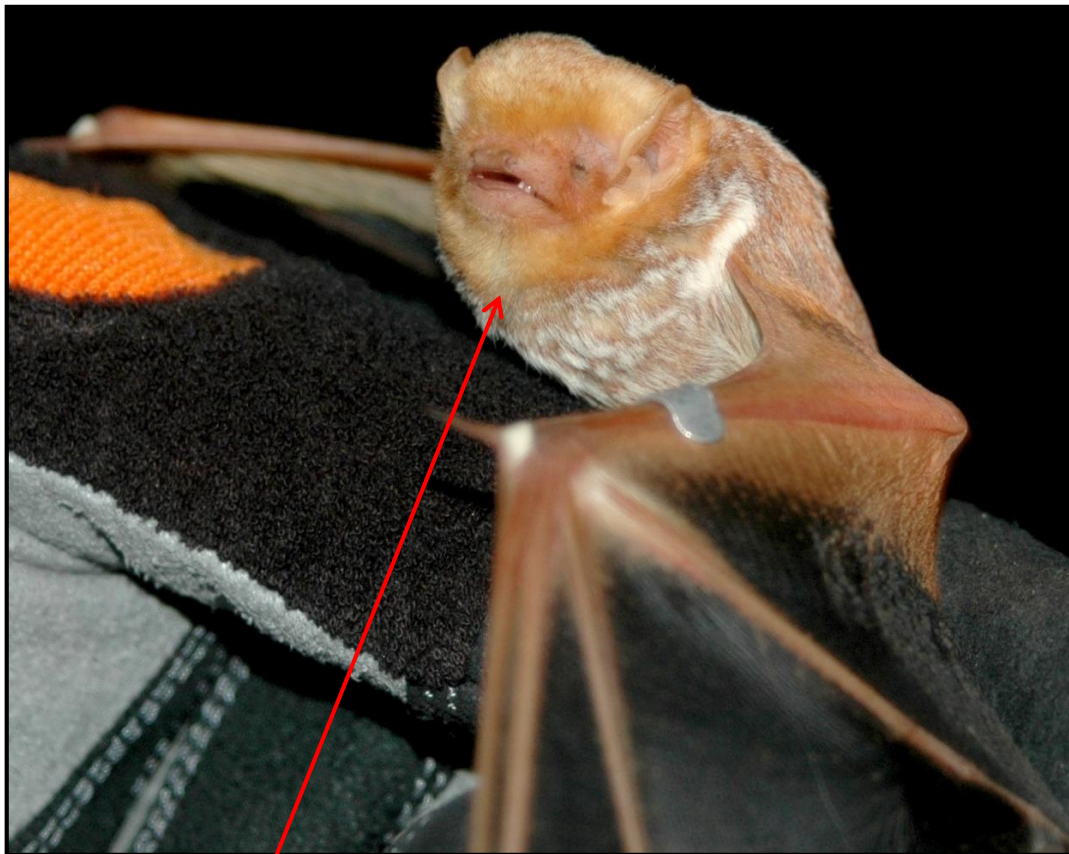
Pale belly

Long ears and pointy tragus

Migratory Bats



Eastern red bat,
Lasiurus borealis



Overall orange/reddish color

Weight	9 – 16 g
Total Length (with Tail)	95 – 126 mm
Wingspan	29 – 33 cm
Forearm	38 – 42 mm
Description	<ul style="list-style-type: none">• Bright orange- to reddish-brown color• Males more brightly colored than females• Frosted appearance• Furred tail membrane
Similar Species	None



Furred tail membrane

Migratory Bats



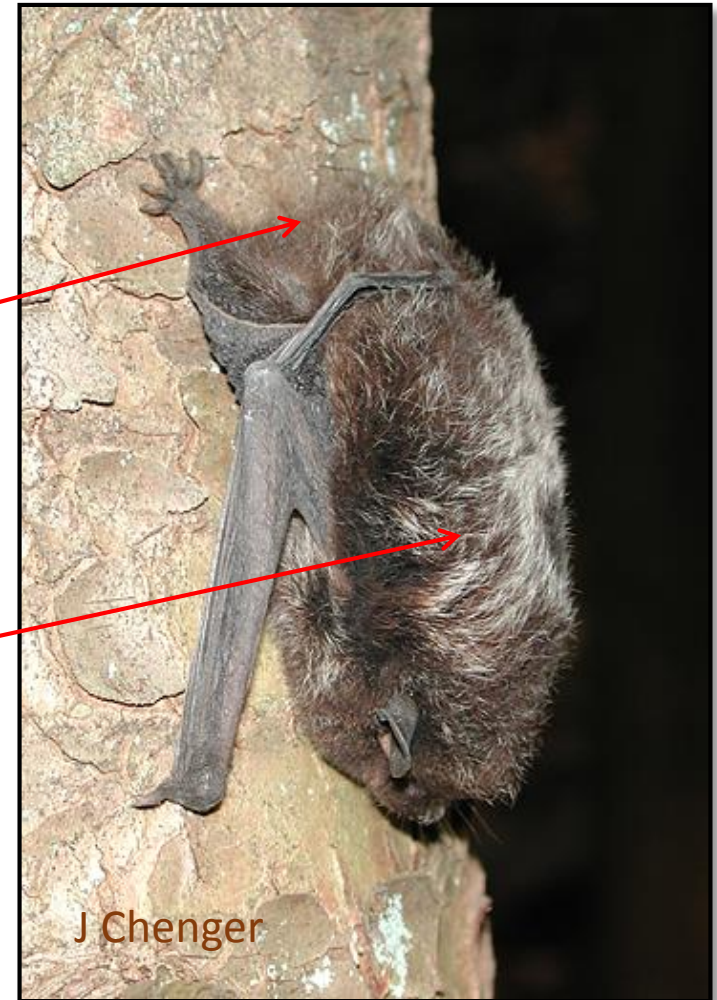
Silver-haired bat, *Lasionycteris noctivigans*

Weight	7 – 16 g
Total Length (with Tail)	84 – 113 mm
Wingspan	28 – 31 cm
Forearm	39 – 44 mm
Description	<ul style="list-style-type: none">• Blackish/brown fur tipped with silver color• Ears and tragus short, blunt and naked• Face, ears, feet and wings dark brown• Lightly furred tail membrane
Similar Species	Hoary bat is larger with densely furred tail membrane and yellow fur around its face.



Silver-tipped fur

Furred tail membrane

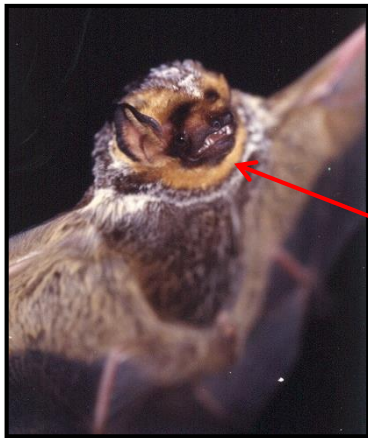


Migratory Bats



Hoary bat, *Lasiurus cinereus*

Weight	18 – 38 g
Total Length (with Tail)	102 – 152 mm
Wingspan	34 – 41 cm
Forearm	42 – 59 mm
Description	<ul style="list-style-type: none">• Largest bat in VT• Heavily furred tail membrane• Fur has banded coloring: black, tan, brown, and silver• Fur around face is yellowish
Similar Species	None



Yellowish fur
around face



Furred tail
membrane

Kiser