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 and are known as "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.
- For more information, contact a bat biologist at the Vermont Fish and Wildlife Department or go to www.vtfishandwildlife.com

Vermont's 9 Species of Bats



Migratory Tree Bats

Silver-haired bat





Hoary bat





Red bat



House Bats



Big brown bat



Little brown bat



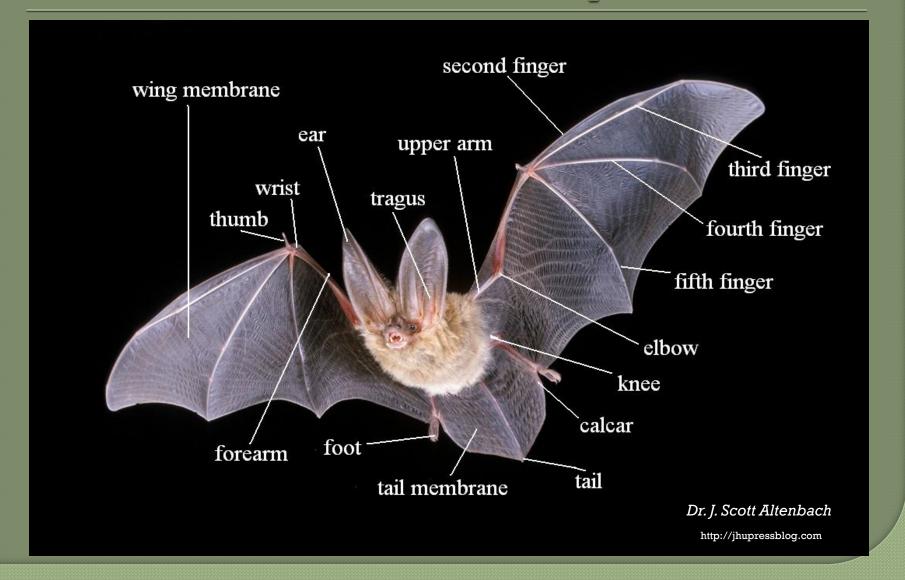
These are the two bat species that are most commonly found in Vermont buildings.

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



Bat Anatomy



House BatsBig brown bat

Commonly found in houses during the summer <u>and</u> <u>winter</u>







Big thick muzzle

Weight	1/2 - 5/8 oz. (13-18 g)
Body Length	4 – 5 1/8 in. (103 – 130 mm)
Wingspan	13 – 16 in. (32 – 40 cm)
Forearm	1 3/4 - 1 7/8 in. (45 – 48 mm)
Description	Long, glossy brown fur. Belly paler than back. Black wings Big thick muzzle Keeled calcar
Similar Species	Little brown bat much smaller & lacks keeled calcar

Long silky fur

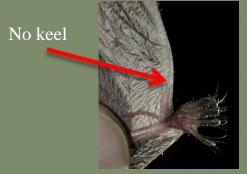


House Bats









Little Brown Bat



Little brown bat ENDANGERED

Commonly found in houses during the summer

Weight	1/8 – 3/8 oz. (4-9 g)
Body Length	3 1/8 – 3 7/8 in. (80 – 98 mm)
Wingspan	9 – 11 in. (22 – 27 cm)
Forearm	1 3/8 - 1 5/8 in. (35 – 42 mm)
Description	Long, glossy 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	Indiana Bat has short toe hair and a keeled calcar. Northern Long-eared Bat has long ears that extend beyond the muzzle if bent forward. Small-footed Bat is much smaller and has a smaller foot and black mask.

Indiana bat

ENDANGERED

Short nose, more pinkish in color

Weight	1/8 – 1/4 oz. (5-8 g)
Body Length	3 - 3 5/8 in. (77 - 91 mm)
Wingspan	9 – 11 in. (24 – 28 cm)
Forearm	1 3/8 - 1 5/8 in. (36 – 41 mm)
Description	Dull, wooly fur uniform grey/brown. Pinkish nose. Short hairs on feet do not extend beyond toes. Keeled calcar.
Similar Species	Little brown has long toe hair and a no keel on the calcar. Northern long-eared bat has long ears that extend beyond the muzzle if bent forward. Small-footed bat is much smaller and has a smaller foot and black mask.







Keeled

calcar



Indiana bat

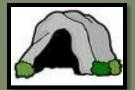


Little brown bat

No keel

Small-footed bat THREATENED

Weight	1/10 – 1/5 oz. (3-5 g)
Body Length	2 7/8 - 3 1/4 in. (73 - 82 mm)
Wingspan	8 – 10 in. (21 – 25 cm)
Forearm	1 1/4 - 1 3/8 in. (31 – 34 mm)
Description	Black face mask and ears Dark wings Small feet 1/4 - 3/8 in (7-8 mm) Keeled calcar.
Similar Species	Little Brown lacks the black mask, has bigger feet and a no keel on





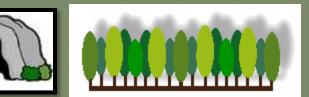


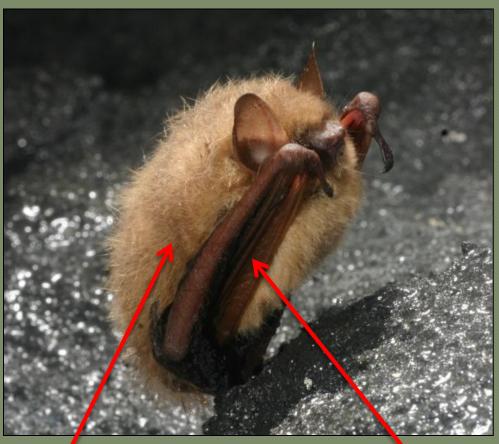
Black face mask

Tri-colored bat

ENDANGERED







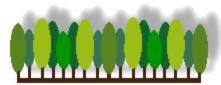
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Pinkish forearms

Weight	1/5 oz. (6 g)
Body Length	2 3/4 - 3 3/4 in. (71 - 95 mm)
Wingspan	8 – 10 in. (21 – 26 cm)
Forearm	1 1/4 - 1 3/8 in. (33 – 36 mm)
Description	Yellowish fur is tri-colored, dark at the base. pale in the middle and dark tips. Pinkish forearms. Face/ears are pale brown.
Similar Species	Other VT bats have bi-colored fur.

Northern long-eared bat





ENDANGERED

Weight	1/8 – 1/4 oz. (5 – 7 g)
Body Length	3 – 3 7/8 in. (75 – 100 mm)
Wingspan	9 – 11 in. (23 – 27 cm)
Forearm	1 3/8 - 1 1/2 in. (35 – 39 mm)
Description	Dull brown fur on back, belly pale.
	Large ears that extend beyond the muzzle if laid forward. Long pointed tragus



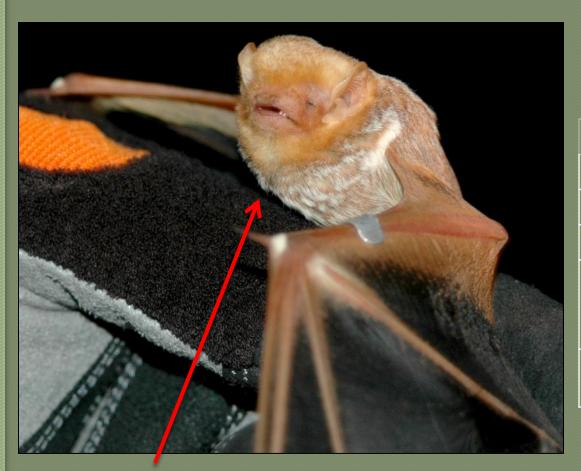


Long ears and pointy tragus

Migratory Bats



Red bat



Weight	1/4 – 1/2 oz. (9 – 15 g)
Body Length	3 5/8 – 4 5/8 in. (93 – 115 mm)
Wingspan	11 – 13 in. (28 – 33 cm)
Forearm	1 3/8 - 1 3/4 in. (35 – 45 mm)
Description	Bright orange to reddish brown color. Frosted appearance. Furred interfemoral tail membrane.
Similar Species	None

Overall orange/reddish color

Migratory Bats



Silver-haired bat

Weight	1/4 – 3/8 oz. (8 – 11 g)
Body Length	3 3/4 – 4 5/8 in. (96 – 116 mm)
Wingspan	11 – 13 in. (27 – 32 cm)
Forearm	1 5/8 - 1 3/4 in. (40 – 45 mm)
Description	Blackish/brown fur tipped with silver color. Ears and tragus short, blunt and naked. Face, ears, feet and wings dark brown. Lightly furred interfemoral tail membrane.
Similar Species	Horary bat is larger with densely furred interfemoral membrane, and yellow fur around its face.

Furred tail membrane



JChenger

Silver tipped fur

Migratory Bats



Hoary Bat

Furred tail membrane

Weight	5/8 – 1 oz. (19 – 28 g)
Body Length	4 7/8 – 5 5/8 in. (123 – 142 mm)
Wingspan	13 – 16 in. (34 – 41 cm)
Forearm	2- 2 1/8 in. (52 – 54 mm)
Description	Largest bat in VT. Tail membrane heavily furred. Fur has banded coloring. Black, tan, brown, and silver. Fur around face is yellowish.
Similar Species	None

Banded fur, yellowish around face

