

Habitat Model for Species: Eastern Pipistrelle

Pipistrellus subflavus

[Distribution Map](#) [Habitat Map](#)

Landcover Category

0 - Comments

Fitch, 1966

Fujita and Kunz, 1984

Hibbard, 1934

Humphrey et al., 1976

Sparks and Choate, 1995

Phillips, 1966

Hollander et al., 1987
Folk, 1940

Guthrie, 1933

Raesly and Gates, 1987

Mills, 1971

[#KS GAP] 30 m edge of selected floodplain forest (5) adjacent to water (82).

[#Reviewer]

05 - Ash-Elm-Hackberry Floodplain Forest

LaVal et al., 1977 restrict mapping in floodplain forest to near stream
[#KS GAP] Map 30 m edge adjacent water.

81 - Urban Areas

Goehring, 1954

Habitat Restrictions

Comments

bats collected from "Winter Mine" in Marshall County, a gypsum mine in Easley Creek Shale formation; humidity and air temps fairly constant from early fall to early spring; bats torpid and pulled from cracks and crevices in ceiling and walls

species hibernates in small numbers in caves, mines & other man-made structures; selects deeper parts of caves where temperatures are constant; maternity colonies often in barns, but trees, caves & crevices also used; forages over water and forest edges

eastern pipistrelles uncommon in gypsum caves of Red Hills region; found on sides of a cave and occupied drier parts of the cave; caves had stream beds fed by surface water during rainy season

nursery colony observed in a dome in twilight zone of cave with temperature of 22 degrees C in summertime; another nursery colony observed in dome beyond twilight zone of cave with temp of 13.6 degrees C and relative humidity of 94% in summertime

suitable habitat for species is trees and cave-like openings; species may be expanding its distributional range westward

7 eastern pipistrelles hibernated in idle limestone mine, but did not occur there in the summer; chose relatively warm, humid places away from periphery of mine for hibernation

eastern pipistrelles netted over Elm Creek
eastern pipistrelles observed hibernating in a limestone cave in New York; cave had constant temperature (40 degrees F) over winter and had a stream running through it; fluctuating water levels unimportant to species

eastern pipistrelles occur in very moist places and were isolated and have not been found in crevices

species uses caves with a relative humidity 82.7-86.9% and temperature of 10.3-11.4 degrees C; these bats choose areas of high temperature and high relative humidity and tended to be solitary; selected exposed areas within hibernaculum

92 eastern pipistrelles found in 3 small limestone caves

Choate : Add Woodson Co. (10501)

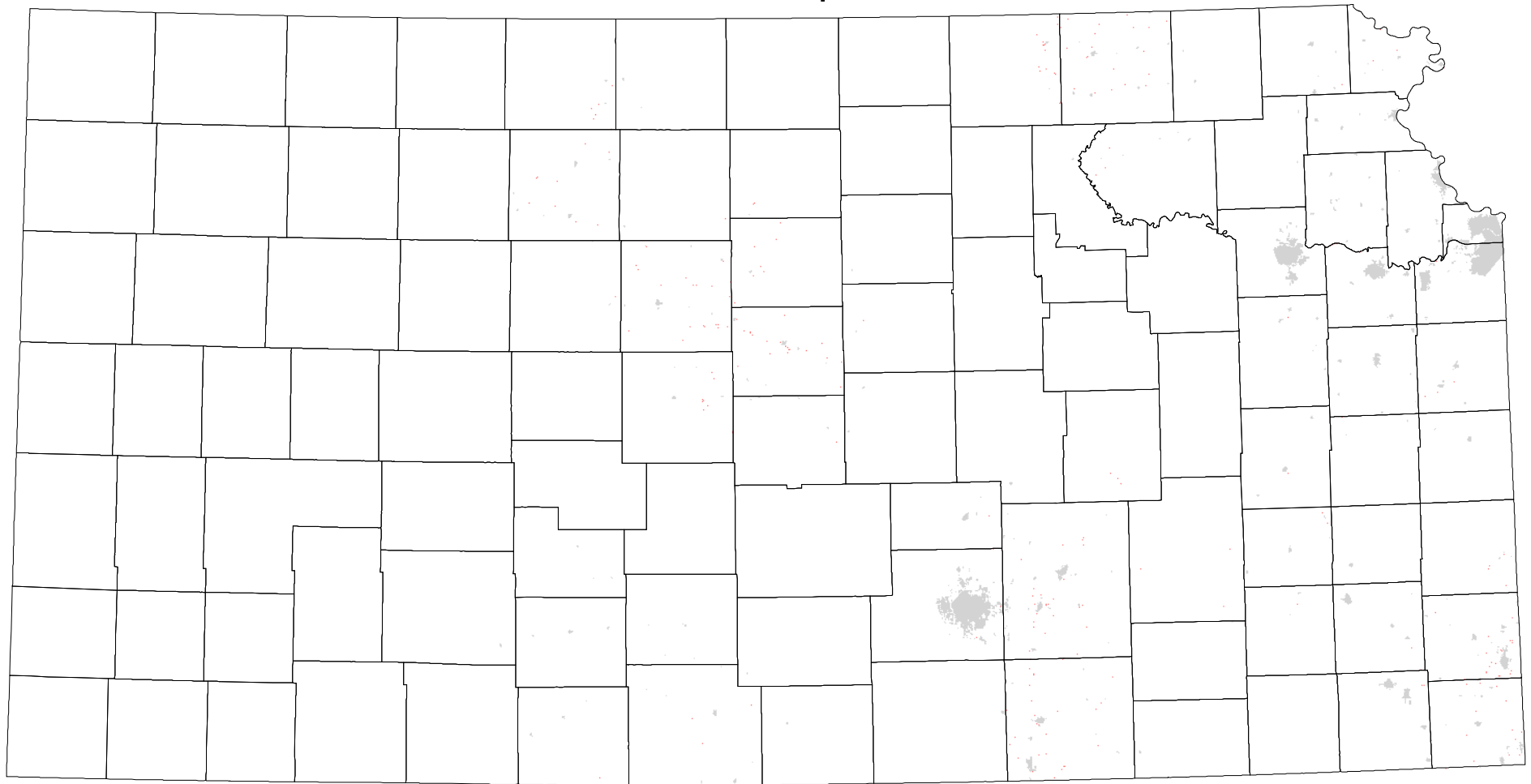
eastern pipistrelles foraged over or near the stream

eastern pipistrelles found in innermost region of pre-cast tile storm sewer, where temperature and humidity were highest; temperature was 44 deg F (6 deg F outside), relative humidity was 71%; bats taken from mortar-free joints between granite blocks;

Reference List

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3. Fujita, M. S. and Kunz, T. H. Mammalian Species. 1984; 228, 1-6.
4. Goehring, H. H. Journal of Mammalogy. 1954; 35, 434-435.
5. Guthrie, M. J. Journal of Mammalogy. 1933; 14, 1-19.
6. Hibbard, C. W. Transactions of the Kansas Academy of Science. 1934; 37, 235-238.
7. Hollander, R. R.; Jones, J. K., Jr.; Manning, R. W., and Jones, C. The Texas Journal of Science. 1987; 39, 97-102.
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11. Phillips, G. L. The American Midland Naturalist. 1966; 75, 168-198.
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Eastern Pipistrelle



Ash-Elm-Hackberry Floodplain Forest

* 30 m edge next to water



Urban Areas