

County Record for the Woodland Vole, *Microtus pinetorum* (Rodentia: Muridae), LeFlore County, OK, with Natural History Notes on a Predatory Snake

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Woodland voles, *Microtus pinetorum*, are found predominantly in the eastern one-half of Oklahoma (1). However, distribution maps in Caire et al. (1) indicate there are 18 eastern counties which do not have locality records for this species; no county records of *M. pinetorum* have been made for Oklahoma since 1989 (N.J. Czaplewski, pers. comm., OMNH). Here we present the first record for *M. pinetorum* in LeFlore County, Oklahoma.

We palpated a *M. pinetorum* from the stomach of a cottonmouth (*Agkistrodon piscivorus*) collected from Cucumber Creek, LeFlore County, Oklahoma on 22 October 1995. The snake was basking beside a tree stump at ca. 1300 h on the edge of a small feeder stream about 30 m from a beaver dam. Cucumber Creek is a high-gradient upland stream in the Mountain Fork drainage of the Little River system and lies within the Ouachita Biotic District (2). The legal description of our collecting site is SE1/4, NW1/4, Sec. 10, T1N, R25E; the coordinates are 34° 34' 32" N 94° 40' 04" W, or UTM ³⁸27²⁰⁵ m N, ³⁴⁶997 m E. The elevation of the site is 335.3 m (1100 ft.). The *M. pinetorum* specimen has been deposited into the Museum of Vertebrate Zoology (MVZ) at the University of California, Berkeley (collection identification number: MVZ 184867).

The male cottonmouth (field number HWG 2571, to be deposited in the MVZ, University of California, Berkeley) measured 476 mm in snout-vent length and weighed 123.8 g. The *M. pinetorum* was swallowed head-first, within a few hours, at most, before capture (no digestive effects visible externally); it weighed 31.2 g, and amounted to 25.2% of the snake's body mass. Cottonmouths eat primarily ectothermic vertebrates but occasionally take rodents, including woodland (pine) voles (3). Our specimen provides evidence of late season feeding on a moderately large prey item. This is a potentially dangerous activity for an ectotherm during cool weather. Because the ability to digest large prey is limited during cool weather, the use of tissue destructive venoms by vipers may play an important role (4, 5) for late seasonal feeding. The Oklahoma Climatological Survey for Talihina (ca. 32 km from our collecting site) provided minimum, maximum, and mean temperatures (-0.6, 25.6, and 13.4 °C for the 21st of October, and 15.0, 27.8, and 21.0 °C for the 22nd).

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