

A NEW RACE OF *MYOTIS AUSTRORIPARIUS* FROM THE UPPER MISSISSIPPI VALLEY

DALE W. RICE
University of Florida

Pending the publication of a comprehensive account of the geographical distribution and variation of the *Myotis* (*Leuconoe*) *daubentoni* species group, I am presenting this preliminary description of a new race of *Myotis austroriparius*.

The generosity of the following individuals, who loaned specimens from their own private collections or from the institutional collections under their care, has made possible the determination of the characters of this rare bat: James R. Beer; James B. Cope, Joseph Moore Museum, Earlham College; Wayne H. Davis and W. Gene Frum; William H. Elder, University of Missouri Museum of Zoology; C. O. Handley, Jr., U. S. National Museum; Donald F. Hoffmeister, University of Illinois Museum of Natural History; C. M. Kirkpatrick, Purdue University Wildlife Laboratory; Charles E. Mohr; Russell E. Mumford; J. A. Sealander, University of Arkansas Zoology Department; and Philip W. Smith, Illinois Natural History Survey. I am especially indebted to H. B. Sherman for his cooperation and advice.

MYOTIS AUSTRORIPARIUS MUMFORDI new subspecies

HOLOTYPE.—United States National Museum No. 293800, adult male, skin and skull. Collected by Russell E. Mumford, 11 January 1949.

TYPE LOCALITY.—Bronson's Cave, in Spring Mill State Park, 3 miles east of Mitchell, Lawrence County, Indiana.

DIAGNOSIS.—This race occurs only in the gray color phase. Adults with pelage of upperparts Black to Fuscous-Black basally, and Hair Brown to Chaetura Drab on the apical fourth. Pelage of underparts Black basally, and White to Pale Smoke Gray on the apical fifth. Mean length of third metacarpal 34.5 mm. (31.5 - 36.7). (Capitalized color terms are from Ridgway, 1912).

COMPARISONS.—Differs from *M. a. austroriparius* Rhoads, 1897, from Florida, in color. *M. a. mumfordi* has white underparts and

grayish upperparts, whereas *M. a. austroriparius* has pinkish-buff underparts and brownish upperparts. Differs from *M. a. gatesi* Lowery, 1943, from Louisiana, in color and length of third metacarpal. *M. a. mumfordi* occurs only in the gray phase, whereas *M. a. gatesi* occurs only in the red phase. The length of the third metacarpal of *M. a. mumfordi* is 33.0 mm. or greater in 95% of the specimens examined, whereas in *M. a. gatesi* it is less than 32.9 in six of the seven known specimens.

SPECIMENS EXAMINED.—Total, 102, as follows: Indiana: Lawrence County, Bronson's Cave, 15; Donaldson's Cave, 21; Upper Twin Cave, 14. Greene County, Ray's Cave, 1. Crawford County, Saltpetre Cave, 1. Illinois: Hardin County, Layoff Cave, 37; 2.5 miles northwest of Cave in Rock, 1; Cave Spring Cave, 8; Griffith Cave, 1. Alexander County, 0.5 mile north of Olive Branch, 1. Arkansas: Garland County, 12 miles northwest of Hot Springs, 2.

This race is named for Russell E. Mumford, whose studies on the bats of Indiana have greatly added to our knowledge of the habits of these rare bats.

LITERATURE CITED

LOWERY, GEORGE H., JR.

1943. Checklist of the mammals of Louisiana and adjacent waters. Occ. Papers Mus. Zool., La. State Univ., 13: 213-257.

RHOADS, SAMUEL N.

1897. A new southeastern race of the little brown bat. Proc. Acad. Nat. Sci., Philadelphia, 1897: 227-228.

RIDGWAY, ROBERT

1912. Color standards and color nomenclature.



Rice, Dale W. 1955. "A new race of *Myotis austroriparius* from the Upper Mississippi Valley." *Quarterly journal of the Florida Academy of Sciences* 18, 67–68.

View This Item Online: <https://www.biodiversitylibrary.org/item/129615>

Permalink: <https://www.biodiversitylibrary.org/partpdf/91822>

Holding Institution

Smithsonian Libraries and Archives

Sponsored by

Biodiversity Heritage Library

Copyright & Reuse

Copyright Status: In Copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://www.biodiversitylibrary.org/permissions/>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.