

PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON

TWO NEW NORTH AMERICAN BATS.

BY GERRIT S. MILLER, JR.

Having recently examined the bats of the *Myotis lucifugus* group in the United States National Museum, including the large series of skins in the Biological Survey collection, I find two forms which have not yet been described. Both are races of the wide-ranging *Myotis longicrus* (True), an animal which proves to be specifically distinct from *M. lucifugus*.

Myotis longicrus interior subsp. nov.

Type.—Adult male (skin and skull), No. 133,426 U. S. National Museum (Biological Survey Collection). Collected five miles south of Twinning, Taos County, New Mexico (altitude 11,300 feet), July 23, 1904, by Vernon Bailey. Original number 8182.

Characters.—Similar to *Myotis longicrus longicrus* but color essentially like that of *M. lucifugus* (type tawny-olive above, faintly lighter below), not darkened as in the northwest coast race; skull tending to be slightly larger than in true *longicrus* and with less abruptly rising frontal and occipital regions; teeth normal.

Measurements.—Type: head and body, 52; tail, 38; tibia, 18; foot, 8.4; forearm, 37; thumb, 7.4; third finger, 66; condylobasal length of skull (teeth moderately worn), 14.0; zygomatic breadth, 8.8; lachrymal breadth, 5.0; breadth of braincase, 7.4; occipital depth, 5.4; mandible, 10.2; maxillary toothrow, 5.2; mandibular toothrow, 5.7.

Specimens examined.—Thirty-five, from the following localities:

NEVADA: Cottonwood Range, 1; Panaca, 1.

IDAHO: Birch Creek, 1; Inkorn, 1; Malad, 1; Mission, 1.

WYOMING: Geyser Basin, 1; Lake Fork, Wind River Mts., 1; Rattlesnake Mts., 1.

COLORADO: Grand Junction, 1; Coventry, 1.

NEW MEXICO: Costilla River, 2; Raton Range, 1; Santa Clara Canyon, 2; Santa Fé, 1; Sierra Grande, 2; Twinning, 5; Willis, 2.

ARIZONA: Chiricahua Mts., 1; Fort Whipple, 1; Keam Canyon, 1; Little Spring, 2; San Francisco Mountain, 2.

CHIHUAHUA: Colonia Garcia, 1; San Francisco Canyon, 1.

Remarks.—Various specimens from the interior of California (three of them from the southern part of the State kindly placed at my disposal by Dr. Joseph Grinnell) have the color characters of *Myotis longicrus interior*. Whether or not they are strictly referable to this race is a question which can not for the present be decided.

Myotis longicrus amotus subsp. nov.

Type.—Adult female (skin and skull), No. 54,437 U. S. National Museum (Biological Survey Collection). Collected at Cofre de Perote, Vera Cruz, Mexico (altitude 12,500 feet), May 27, 1893, by E. W. Nelson. Original number, 4873.

Characters.—Externally like *Myotis longicrus interior* (only known specimen slightly darker and more red than in any of the specimens of the northern form yet seen, its color best described as a dark, reddish, tawny-olive); skull with palate narrowed and braincase reduced; teeth normal except that the upper canine is slightly more robust than in the other races, its diameter appreciably greater as compared with that of palate.

Measurements.—Type: head and body, 54; tail, 44; tibia, 18; foot, 8.6; forearm, 39; thumb, 6; third finger, 76; fifth finger, 55; condylobasal length of skull (teeth moderately worn), 13.8; zygomatic breadth, 8.8; lachrymal breadth, 5.0; breadth of braincase, 7.0; occipital depth, 5.2; mandible, 10.2; maxillary toothrow, 5.2; mandibular toothrow, 5.8.

Specimen examined.—The type.