

PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON

THREE NEW JUMPING MICE (*ZAPUS*) FROM THE
NORTHWEST.

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There seem to be two well marked groups of species among the American Jerboas or Jumping Mice—the small *Zapus hudsonius* and its immediate allies from the region east of the Rocky Mountains, but including the new form here described under the name *tenellus*, and the large *princeps* and *trinotatus* and their allies from the mountains of the west and the northwest coast. Three new forms are here described—one from Kamloops, in the interior of British Columbia, and two from southwestern Oregon. Of the latter, one inhabits the Cascade Range about Crater Lake, the other the Rogue River Valley.

***Zapus tenellus* sp. nov.**

Type from Kamloops, British Columbia. No. 66932, ♀ ad., U. S. Nat. Mus., Biological Survey Coll. Collected August 25, 1894, by Clark P. Streater. Original No. 4196.

General characters.—Size small; ears rather large; coloration dark; hind feet very slender. Similar to *Z. hudsonius*, but less yellow and very much darker and tail longer.

Color.—Dorsal area not sharply defined, grizzled with yellowish; sides olive-yellowish, heavily lined with black hairs; nose, ears, and inner side of legs to heel dusky; tail sharply bicolor: dusky above and at tip all round, whitish below; fore and hind feet soiled whitish.

Cranial characters.—Skull similar in size and characters to *Z. hudsonius*.

Measurements.—Type specimen: total length, 216; tail vertebræ, 134; hind foot, 31. Average of four specimens from type locality: total length, 208; tail vertebræ, 128.5; hind foot, 31.

***Zapus pacificus* sp. nov.**

Type from Prospect, Rogue River Valley, Oregon. No. 80445, ♂ yg. ad., U. S. Nat. Mus., Biological Survey Coll. Collected August 29, 1896, by Edward A. Preble. Original No. 1454.

General characters.—Size rather small; dorsal area strongly suffused with yellowish.

Color.—Dorsal area not strongly defined, but so strongly saturated with yellow that the yellow predominates over the black; sides buffy yellow, moderately lined with black hairs; inner side of legs only slightly darkened; tail sharply bicolor: grayish above, white beneath; fore and hind feet soiled white.

Cranial characters.—Contrasted with *Zapus montanus* the skull of *Z. pacificus* is smaller; the rostrum and nasals shorter; audital bullæ smaller; basioccipital broader between bullæ; interpterygoid fossa shorter; upper molar series more divaricating anteriorly.

Measurements.—Type specimen: total length, 225; tail vertebræ, 141; hind foot, 31.

Remarks.—A slightly younger specimen obtained by Mr. Preble at the type locality has the dorsal area even less distinct, the entire upper parts being ochraceous yellow. A still younger specimen in my private collection (No. 3708) from Point Reyes, California, has the upper parts almost uniform deep ochraceous yellow with only the faintest trace of the dorsal area.

***Zapus trinotatus montanus* subsp. nov.**

Type from Crater Lake, Oregon. No. 79863, ♀ ad., U. S. Nat. Mus., Biological Survey Coll. Collected August 19, 1896, by Edward A. Preble. Original No. 1388.

General characters.—Size rather large; similar to *Z. trinotatus*, but somewhat smaller and duller (sides less 'orange'), with shorter ears and feet, and differing slightly in cranial characters.

Color.—Dorsal area sharply defined, grizzled dusky and yellowish; sides ochraceous, conspicuously lined with black hairs; inner side of legs to heel dusky; tail sharply bicolor: gray above, white beneath; fore and hind feet soiled white. Belly in young adults washed with yellow.

Cranial characters.—Skull similar to that of *Z. trinotatus*, but somewhat smaller; palate narrower; incisive foramina narrower posteriorly; angular process of mandible less strongly developed.

Measurements.—Type specimen: total length, 231; tail vertebræ, 137; hind foot, 31. Average of eight from type locality: total length, 230; tail vertebræ, 135.5; hind foot, 31.



Merriam, C. Hart. 1897. "Three new jumping mice (*Zapus*) from the northwest." *Proceedings of the Biological Society of Washington* 11, 103–104.

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