

A
CHECK-LIST
OF
MAMMALS

OF THE
NORTH AMERICAN CONTINENT
THE WEST INDIES
AND THE
NEIGHBORING SEAS

SUPPLEMENT

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Order Rodentia. Rodents.

Family Sciuridæ. Squirrels, Marmots.

Subfamily Sciurinae.

Genus Sciurus (50).

Subgenus B. Baiosciurus.

Sciurus deppei matagalpa Allen.

Sciurus deppei matagalpa Allen, Bull. Am. Mus. Nat. Hist., XXIV, 1908, p. 660.

Type locality. San Rafael del Norte, Nicaragua.

Genl. Char. Similar to *S. deppei* but upperparts yellowish brown instead of rusty brown.

Color. Head, entire upperparts, flanks and outer side of limbs, mixed antimony-yellow and black, the first color being restricted to the tips of the hairs, the dark one being the hue of the under fur; throat white; rest of underparts and inner side of limbs antimony-yellow, like the tips of the hairs on upperparts; tail above antimony-yellow and black, outer edge white, beneath mixed black and white, and edged with white; hands and feet antimony-yellow like outer side of limbs. Ex type in American Museum of Natural History, New York.

Measurements. Total length, 554; tail, 240; hind foot, 45.9. Skull: Total length, 48.9; Hensel, 38.9; zygomatic width, 29; intertemporal width, 15.3; length of nasals, 15.3; length of upper molar series, 8.2; length of mandible, 24.7; length of lower molar series, 8.7. Ex type in American Museum of Natural History, New York.

Subgenus C. Guerlinguetus.

Sciurus variabilis choco Goldman.

Sciurus variabilis choco Goldm., Smith. Misc. Coll., LX, 1913, No. 22, p. 4.

Type locality. Cana, eastern Panama. Altitude 3,500 feet.

Genl. Char. Similar to *S. v. morulus* but darker.

Color. Top of head blackish; cheeks brownish buff; lips pale buff; upperparts light ochraceous-buff to tawny ochraceous lined with black; dorsal stripe from shoulders to base of tail black; shoulders and sides ochraceous-rufous; outer sides of forearms ochraceous-rufous mixed

Occipito-nasal length, 39.6; Hensel, 33.8; zygomatic width, 25; intertemporal width, 9.6; length of nasals, 10.6; length of upper molar series, 8.4; length of mandible, 23.3; length of lower molar series, 7.5. Ex type in United States National Museum.

Subgenus F. **Otospermophilus.**

Citellus variegatus juglans Bailey.

Citellus variegatus juglans Bailey, Proc. Biol. Soc. Wash., XXVI, 1913, p. 131.

Type locality. Glenwood, New Mexico. Altitude, 5000 feet.

Genl. Char. Similar to *C. variegatus*, but skull broader, teeth smaller.

Color. Head rusty and black, becoming tawny near ears; ears black; hind neck, flanks behind shoulders gray; back between shoulders black and buff; rest of back ochraceous and cream spotted; underparts soiled whitish (some examples rusty ochraceous); hands and feet pale ochraceous; tail above has the hairs gray with subterminal black band, and a marginal band edged with whitish; beneath practically the same coloring. Ex type in United States National Museum.

Measurements. Total length, 500; tail, 230; hind foot, 65. Skull: Occipito-nasal length, 60.9; Hensel, 49.3; zygomatic width, 38; intertemporal width, 13.6; length of nasals, 22; palatal length, 28.5; length of upper molar series, 12; length of mandible, 36.8; length of lower molar series, 11.6. Ex type in United States National Museum.

Genus **Marmota** (54). **Woodchucks.**

Marmota ochracea Swarth.

Marmota ochracea Swarth, Univ. Calif. Pub. Zool., VII, 1911, p. 203.

Type locality. Forty-mile Creek, Alaska.

Marmota vancouverensis Swarth.

Marmota vancouverensis Swarth, Univ. Calif. Pub. Zool., VII, 1911, p. 201.

Type locality. Mount Douglas, Vancouver Island, British Columbia, Canada.

Marmota vigilis Heller.

Marmota vigilis Heller, Univ. Calif. Pub. Zool., V, 1909, p. 248.

Type locality. West shore of Glacier Bay, Alaska.

Marmota oxytona Hollister.

Marmota sibilatrix Hollist., Smith. Misc. Coll., LVI, 1912, p. 1.

Marmota oxytona Hollist., Science, XXXIX, 1914, p. 251.

Type locality. Head of Moose Pass, Branch of the Smoky River, Alberta, Canada. Altitude, 7,200 feet.

Genl. Char. Larger than *M. caligata*; colors dark; cheeks ochraceous. Skull large; teeth a little smaller than those of species compared.

Color. Top of head and nape grizzled brown and black, top of nose and stripe on cheek black; forehead in center white; sides of neck ochraceous; shoulders and upper back the hairs are black at base then white and tipped with brownish black, giving a grizzled, light appearance to this part; lower back a grizzled brown, black and buff; throat ochraceous; rest of underparts brownish gray, becoming hazel at base of tail; tail above black bordered and tipped with mummy-brown; beneath all mummy-brown; hands and feet black, the hands with a few white hairs. Ex type in United States National Museum.

Measurements. Total length, 720; tail, 210; hind foot, 95. Skull: Occipito-nasal length, 103.8; Hensel, 88.2; zygomatic width, 67; intertemporal width, 15; palatal length, 50.5; length of nasals, 44; length of upper molar series, 22.8; length of mandible, 72.9; length of lower molar series, 20. Ex type in United States National Museum.

Marmota monax rufescens Howell.

Marmota monax rufescens Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 13.

Type locality. Elk River, Minnesota.

Genl. Char. Similar to *M. monax* but redder.

Geogr. Distr. Southern part of Minnesota, Wisconsin, Michigan, Ontario and the greater part of the State of New York.

Color. Upper parts from nape to lower back ochraceous-buff, and from middle of back to tail darker buff, all the hairs tipped with white; flanks like lower back; top of head blackish; cheeks and upper lip cream white, base of hairs black; outer side of limbs bright chestnut, slightly darker than limbs; tail blackish, hairs at base white-tipped, beneath black, tinged with chestnut; hands and feet black. Ex type in United States National Museum.

Measurements. Total length, average of five, 548; tail, 143; hind foot, 83. Skull: Occipito-nasal length, 85; Hensel, 77.3; zygomatic width, 64.7; intertemporal width, 17.7; length of nasals, 35; length of upper molar series, 20.7; length of mandible, 57.6; length of lower molar series, 20. Ex type in United States National Museum.

Marmota monax preblorum Howell.

Marmota monax preblorum Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 14.

Type locality. Wilmington, Massachusetts.

Geogr. Distr. Connecticut, north to Rutland, Vermont and Ossipee, New Hampshire, but how much farther its range may extend has not been ascertained.

Genl. Char. Very similar to *M. m. rufescens* but paler, light buff on upperparts, hairs white-tipped; top of head seal-brown; underparts pale chestnut; tail at root inclined to grayish, rest of tail above and below like that of *M. m. rufescens*; hands and feet black. Ex type in United States National Museum.

Measurements. Total length, 500; tail, 140; hind foot, 80. Skull: Occipito-nasal length, 87.8; Hensel, 76.3; zygomatic width, 57.4; intertemporal width, 17; length of nasals, 35.1; length of upper molar series, 17.7; length of mandible, 48.6; length of lower molar series, 17.7. Ex type in United States National Museum.

Marmota flaviventer parvula Howell.

Marmota flaviventer parvula Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 14.

Type locality. Jefferson, Nye County, Nevada.

Geogr. Distr. Known only from the Toyabe and Toquima Ranges, Nevada, but probably will be found in the other ranges in the central part of the State.

Genl. Char. Similar to *M. f. avara* but smaller and darker.

Color. Band above nose black; lips and chin whitish; top of head and nape dark chestnut; upperparts pale buff to middle of back, darker on lower back to tail, all hairs tipped with white; flanks like lower back; throat and middle of abdomen pale chestnut; chest deep buff; thighs and scrotum pale buff; cheeks black, white-spotted; arms buff; hands reddish, feet buff; tail above chestnut speckled sparsely with white on basal half; beneath blackish. Ex type in United States National Museum.

Measurements. Total length, 470; tail, 130; hind foot, 70. Skull: Occipito-nasal length, 72.2; Hensel, 62; zygomatic width, 48.6; intertemporal width, 19.3; length of nasals, 29.3; length of upper molar series, 18.6; length of mandible, 46; length of lower molar series, 18.3. Ex type in United States National Museum.

Marmota flaviventer nosophora Howell.

Marmota flaviventer nosophora Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 15.

Type locality. Willow Creek, 7 miles east of Corvallis, Montana. Altitude, 4000 feet.

Geogr. Distr. Northern Rocky Mountain region from Flathead Lake, Montana, south to the Wahsatch Mountains, Utah, and east to the Bighorn Mountains, Wyoming.

Color. Nose white with a black bar near tip; lips and chin white; top of head black, white intermixed; upper half of back and flanks golden-yellow; lower back with central portion black, hairs, white-tipped, remainder slightly darker than upper back; arms, hands and underparts burnt-sienna; thighs golden-buff, feet darker; tail above chestnut, beneath black margined with chestnut. Ex type in United States National Museum.

Measurements. Total length, 583; tail, 170; hind foot, 75. Skull: Occipito-nasal length, 79.3; Hensel, 78.8; zygomatic width, 53.2; length of nasals, 33; length of upper molar series, 20; length of mandible, 58.2; length of lower molar series, 13.4. Ex type in United States National Museum.

***Marmota flaviventer luteola* Howell.**

Marmota flaviventer luteola Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 15.

Type locality. Woods P. O., in Medicine Bow Mountains, Wyoming. Altitude, about 7000 feet.

Geogr. Distr. Mountains of northern Colorado, and southeastern Wyoming, from the Laramie Mountains south to Park County, Colorado.

Genl. Char. Similar to *M. dacota* and *M. f. nosophora* but paler, less deeply ochraceous above; skull with longer rostrum and smaller audital bullæ.

Color. Head like *M. f. nosophora*; upper part of back light buff, all hairs tipped with white; lower back much darker, more like underparts, and the white much less conspicuous; chin and upper part of throat yellowish white; rest of underparts ochraceous-tawny, palest near tail; limbs, hands and feet similar to those of *M. f. nosophora*, but fingers and toes mixed black and buff; tail above reddish on basal half, remainder much paler, almost ochraceous; beneath black edged with tawny. Ex type in United States National Museum.

Measurements. Total length, 650; tail, 182; hind foot, 90. Skull: Occipito-nasal length, 87.5; Hensel, 75.5; zygomatic width, 50.4; intertemporal width, 15.9; length of nasals, 35.1; length of upper molar series, 21; length of mandible, 56.9; length of lower molar series, 20. Ex type in United States National Museum.

Marmota flaviventer warreni Howell.

Marmota flaviventer warreni Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 16.

Type locality. Crested Butte, Colorado.

Geogr. Distr. Western Colorado, limits of range unknown.

Genl. Char. Size large; color deep red; skull large, rostrum long, slender.

Color. Head chestnut-red; upper parts reddish, hairs white-tipped; arms above and beneath, and underparts tawny-ochraceous; underpart of thighs ochraceous-buff; hands chestnut, feet dark red; tail above tawny-red, beneath chestnut. Ex type in United States National Museum.

Measurements. Total length, 565; tail, 131; hind foot, 82. Skull: Occipito-nasal length, 90.5; Hensel, 79; zygomatic width, 59; intertemporal width, 16.5; length of nasals, 38.5; length of mandible, 58; length of lower molar series, 19.5. Ex type in United States National Museum.

Marmota flaviventer obscura Howell.

Marmota flaviventer obscura Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 16.

Type locality. Wheeler Peak, 5 miles south of Twining, New Mexico. Altitude, 11,300 feet.

Geogr. Distr. Upper slopes above timber line of the high peaks in northern New Mexico and southern Colorado, from the Pecos River Mountains north to the Sangre de Christo and San Juan Ranges, Colorado.

Genl. Char. Size large; tail long; colors dark; skull like that of *M. dacota* but the palatal foramina are narrower.

Color. Head and nape dark chestnut; upperparts chestnut-brown, hairs white-tipped; base of hairs black followed by buff; lips and chin white; underparts, sides of chest and belly like upperparts but darker; middle of chest and abdomen buffy; hands and feet blackish chestnut; tail above dark ochraceous-buff, beneath black in center margined by dark ochraceous-buff. Ex type in United States National Museum.

Measurements. Total length, "average of three, 655; tail, 204; hind foot, 90.7. Skull: Occipito-nasal length, 83.9; Hensel, 72.8; zygomatic width, 59.4; intertemporal width, 16.3; length of nasals, 34.2; length of upper molar series, 20; length of mandible, 57.7; length of lower molar series, 18.7; Ex type in United States National Museum.

Marmota caligata cascadenis Howell.

Marmota caligata cascadenis Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 17.

Type locality. Mt. Rainier, Washington.

Geogr. Distr. Mt. Rainier, Washington, to the Mount Baker Range, British Columbia.

Genl. Char. Size large; similar in color to *M. caligata*.

Color. Nose, and extending back to eyes white, a black band across nose near tip; rest of head above mixed black and white; sides of head grizzled; entire upperparts and sides yellowish white; outer side of arms and entire hind legs yellowish white; inner side of arms and underparts a mixture of pale and dark buff; tail above mixed buff and reddish, beneath dark reddish and black; hands and feet black.

Measurements. Total length, 740; tail, 230; hind foot, 107. Skull: Occipito-nasal length, 101; Hensel, 85.2; zygomatic width, 66.2; intertemporal width, 15.3; length of nasals, 42.4; length of upper molar series, 23; length of mandible, 68.3; length of lower molar series, 21.1. Ex type in United States National Museum.

Marmota caligata nivaria Howell.

Marmota caligata nivaria Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 17.

Type locality. Upper St. Mary's Lake, Montana, Altitude, 6100 ft.

Geogr. Distr. Type locality to Bitterroot and Salmon River Mountains, Idaho.

Genl. Char. Similar to *M. oxytona* but whiter.

Color. Forehead white, rest of head mixed black and white; back from head to lumbar region and flanks white; hairs blackish white-tipped on small of the back; rump ochraceous, with hairs black-tipped; underparts grayish white, inclined to buff towards tail; tail above and below reddish, black at base, hairs white-tipped; hands and feet black. Ex type in United States National Museum.

Measurements. Total length "average of four," 751; tail, 224; hind foot, 105. Skull: Occipito-nasal length, 99.3; Hensel, 86.5; zygomatic width, 64.7; intertemporal width, 14.2; length of nasals, 39.7; length of upper molar series, 21.7; length of mandible, 66.5; length of lower molar series, 19.5. Ex type in United States National Museum.

Marmota caligata sheldoni Howell.

Marmota caligata sheldoni Howell, Proc. Biol. Soc. Wash., XXVII, 1914, p. 18.

Type locality. Montague Island, Alaska.

Genl. Char. Similar to *M. caligata*, but smaller; skull has shorter nasals and the premaxillæ narrower.

Color. Nose white; head on top black; sides of neck and shoulders iron-gray, as are also the flanks; hind neck and between shoulders grayish white; lower back and rump buff, hairs tipped with black; underparts whitish; tail all around reddish, tip black; hands and feet black. Ex type in United States National Museum.

Measurements. Total length, 670; tail, 185; hind foot, 94. Skull: Occipito-nasal length, 88.5; Hensel, 77.9; zygomatic width, 61.5; intertemporal width, 17; length of nasals, 33.4; length of upper molar series, 22.6; length of mandible, 67.4; length of lower molar series, 20.2. Ex type in United States National Museum.

Family **Castoridæ.** Beavers.

Genus **Castor** (57).

Castor canadensis phæus Heller.

Castor canadensis phæus Heller, Univ. Calif. Pub. Zool., V, 1909, p. 250.

Type locality. Pleasant Bay, Admiralty Islands, Alaska.

Castor subauratus Taylor.

Castor subauratus Taylor, Univ. Calif. Pub. Zool., X, 1912, p. 167.

Type locality. Grayson, San Joaquin River, Stanislaus County, California.

Castor canadensis texensis Bailey.

Castor canadensis texensis Bailey, N. Am. Fauna, No. 25, 1905, p. 122.

TEXAS BEAVER.

Type locality. Cummings Creek, Colorado County, Texas.

Geogr. Distr. Eastern Texas.

Genl. Char. Coloration pale; skull with short sagittal crest, lateral ridges lyrate or spreading; supra-occipital crest doubly curved; nasals long, spatulate, tapering to a point posteriorly.

Color. Pale brown above, beneath ash-gray. Ex type in United States National Museum.

Measurements. Hind foot, .74; naked portion of tail, 265 long, 113 wide (dry skin). Skull: basal length, 136; nasals, 57; breadth of nasals, 30; zygomatic breadth, 107; intertemporal breadth, 29;