Mephitis macroura. Hooded Skunk

Mephitis macroura Lichtenstein, 1832

**DIAGNOSIS.** Mephitis macroura can be differentiated from *M. mephitis* by its ruff of long hairs on back of neck and head (hence the common name “hooded”), by mixing of black hairs in areas of mostly white hairs, or by wider separation of dorsal white stripes compared to *M. mephitis* (Hoffmeister 1986; Wade-Smith and Verts 1982). Moreover, white bands are located on upper sides of *M. macroura* instead of dorsally on *M. mephitis* (Nowak 1999). White stripes on back or sides of *M. macroura* seldom join into a “V,” instead they remain separate (Findley et al. 1973; Godin 1982). Finally, skull of *M. macroura* can be differentiated from that of *M. mephitis* by the larger tympanic bullae (Hall 1981). *M. macroura* is sympatric with hog-nosed skunks (*``V.``* instead they remain separate (Findley et al. 1975; Godin 1982). Body mass of 3 males was 716, 803, and 900 g, whereas mass of 2 females was 699 and 735 g (Armstrong et al. 1972). Body mass of 1 male caught in August was 965 g, and 1 pregnant female captured in June weighed 1,212 g (Davis and Lukens 1958). Maximum body mass is 2.7 kg (Ceballos González and Galindo Leal 1984). Animals in Costa Rica are <50% smaller than those from southern United States (Janzen and Hallwachs 1982).

**SKULL.** (Fig. 2) is highly arched and highest in frontal region. Postorbital processes are not prominent (Howell 1901). Basilar length of skull is 56.1–60.3 mm (Hall 1981). Skull measurements (in mm, with parenthetical range) for 6 males and 3 females, respectively, average: condylobasal length, 61 (59–63), 60 (59–61); zygomatic breadth, 40 (39–41), 38 (35); mastoid breadth, 33 (33–34), 32 (32–33); and length of maxillary toothrow, 20 (19–21), 19 (18–19)—Armstrong et al. 1972).

**DISTRIBUTION.** *Mephitis macroura* occurs in a wide variety of habitats including temperate and tropical regions (Fig. 3). *M. macroura* occurs from southwestern Texas, southwestern New Mexico, and southeastern Arizona, throughout Mexico, into Guatemala, Honduras, Nicaragua, and into Costa Rica (Hall 1981; Janzen and Hallwachs 1982; Reid 1997).

**FOSSIL RECORD.** Hooded skunks occurred in the Late Pleistocene–Early Holocene fauna from Deadman Cave, southern Arizona. No other fossils are known (Mead et al. 1984).

**FORM AND FUNCTION.** Hooded skunks have 5 pairs of mammae: 2 pairs of inguinal, 1 pair of abdominal, and 2 pairs of pectoral (Bailey 1932; Cahalane 1961). A male collected on 12 April 1962 had scrotal testes 19 mm in length (Armstrong et al. 1972). Males have a baculum. Dental formula is i 3/3, c 1/1, p 3/3, m 1/2, total 34.

**REPRODUCTION.** *Mephitis macroura* mate from mid-February to the end of March (Patton 1974). Litter size ranges from 3 to 8 (Bailey 1932; Ceballos González and Galindo Leal 1984; Patton 1974; Reid 1997). A female collected on 23 June 1958 at Golotilpa, Guerrero, Mexico, carried 3 embryos, 35 mm in crown-rump length (Davis and Lukens 1956). In Chiula, Mexico, 1 female carried 2 embryos, 25 mm in length; a 2nd female carried 4 embryos, 25 mm in length (Anderson 1972).

**ECOLOGY.** The hooded skunk is most common in the arid lowlands (Davis and Russell 1954), but also occurs in deciduous
or ponderosa forest, forest edges, pastures, rocky canyons, and riparian habitats (Baker 1956; Findley et al. 1975; Jansen and Hallwachs 1982). In Mexico, hooded skunks occupy home ranges of 2.3–5.0 km² (Ceballos and Miranda 1986). Typically, *M. macroura* occurs from sea level to 2,440 m (Hubbard 1972), but 1 animal was collected in the Boreal Forest of Morelos, Mexico, at 3,110 m (Davis and Russell 1954), and in Arizona, they occur at 2,620 m along Hannagan Creek and at Beaverhead Lodge in Greenlee County (Hoffmeister 1986). In Guerrero, Mexico, hooded skunks are widespread but scattered below 1,830 m (Davis and Lukens 1958).

The hooded skunk mainly consumes insects, fruits, small vertebrates, and bird eggs (Patton 1974; Reid 1997). A hooded skunk captured near a river in New Mexico had a stomach filled with remnants of black beetles (Coleoptera—Bailey 1932), and 1 animal killed in a grassy meadow had a stomach full of grasshoppers (Orthoptera—Dalquest 1953).

Captive hooded skunks have lived for 3 years (Patton 1974). In the wild, great horned owls (*Bubo virginianus*) and coyotes (*Canis latrans*) may kill hooded skunks.


Fur of the hooded skunk is very long, light, and of low economic value (Bailey 1932). The flesh, however, is considered a table delicacy in some areas (Davis 1944). In Guatemala, hooded skunks are hunted for their scent glands that are used in folk medicine (Reid 1997). In San Luis Potosí, Mexico, the fat of hooded skunks is used for medicinal purposes (Dalquest 1953). Hooded skunks offer little resistance when caught in a trap (Hoffmeister 1986).

**BEHAVIOR.** The hooded skunk is nocturnal and generally solitary, but several may gather at a feeding site without aggression (Reid 1997). When foraging, *M. macroura* moves slowly, sniffing among leaves and pouncing on grasshoppers and beetles (Dalquest 1953; Reid 1997). Typically, hooded skunks are active soon after dusk and travel along rock walls, streambeds, and in weedy fields. During the day, *M. macroura* sleeps in rock crevices, burrows, holes, and brushy bottoms (Bailey 1932; Godin 1982; Reid 1997). Hooded skunks prefer to den away from human dwellings (Patton 1974). However, at San Bernardino Ranch east of Douglas, Arizona, hooded skunks were observed under buildings (Hoffmeister 1986). Most likely, they remain active all year (Bailey 1932).

Anal glands are used exclusively in self-defense (Dalquest 1953). The defensive behavior of *M. macroura* is similar to that of *M. mephitis* (Janzen and Hallwachs 1982; Larivière and Messier 1996; Leopold 1965). When chased, a large hooded skunk in the Sonoran desert, Arizona, took refuge under a jumping cholla (*Opuntia fulgida*—Reed and Carr 1949).

In Costa Rica, hooded skunks do not break chicken eggs with their mouth; instead they break eggs by throwing them between their back legs. They may repeat the procedure until the egg is broken, but the throws are not directed at rocks or hard surfaces (Jansen and Hallwachs 1982).

**GENETICS.** *Mephitis macroura* probably evolved from a slow moving omnivore/insectivore (Dragoo et al. 1993). Closest living relatives of *M. macroura* are striped (*M. mephitis*) and spotted (*Spilogale*) skunks. *M. macroura* and *M. mephitis* are separated by a genetic distance of 0.28 based on mitochondrial deoxyribonucleic acid sequence of CYT1 and D-loop (Dragoo et al. 1993).

**CONSERVATION STATUS.** Hooded skunks are not threatened. In Mexico, they are very abundant and survive in human-altered habitats such as cultivated fields, pastures, and suburban areas.

**REMARKS.** Skunks have been elevated to their own family, the Mephitidae, which includes genera *Conepatus*, *Mephitis*, *My-
daux, and Spilogale (Dragoo and Honeycutt 1997), rather than grouped as a subfamily (Mephitinae) within Mustelidae (Nowak 1999; Wozencraft 1993). Other common names for the hooded skunk include white-sided skunk, southern skunk, zorillo, zorillo común, zorillo rayado, zorillo listado, or mofeta rayada (Spanish), pay (Maya), and moufette à capuchon (French). The etymological origin of Mephitis is the Latin mephit meaning “foul odor” (Borror 1960). The specific name macroura is from the Greek prefix macr meaning “large” and the Greek suffix oura meaning “tail” (Borror 1960).

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