California Wildlife Habitat Relationships System

California Department of Fish and Wildlife California Interagency Wildlife Task Group

CANYON MOUSE Peromyscus crinitus

Family: MURIDAE Order: RODENTIA Class: MAMMALIA

M118

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DISTRIBUTION, ABUNDANCE, AND SEASONALITY

In California, occurs in 3 areas: the southeastern desert areas, northern Alpine Co., and the northeastern corner of the state (Modoc, eastern Siskiyou, and eastern Lassen cos.). Confined to arid, rocky areas, but found in a variety of habitats. Found in all desert and chaparral habitats, with the possible exception of chamise-redshank chaparral. Also common in subalpine conifer, eastside pine, pinyon-juniper, juniper, and Joshua tree habitats. Elevational range 0-3050 m (10,000 ft).

SPECIFIC HABITAT REQUIREMENTS

Feeding: Green vegetation and seeds are consumed throughout the year. Insects are eaten when available, especially in spring and summer (Bradley and Deacon 1971, Bradley and Mauer 1973, Johnson and Armstrong 1987).

Cover: Restricted to rocky areas. Egoscue (1964) reported that plants had little influence on the distribution and abundance of this species in Utah. Coat color usually varies with color of substrate, except in Pisgah Lava Bed, San Bernardino Co. (Lawlor 1976).

Reproduction: Simple nests are built in burrows beneath rocks and in rock crevices.

Water: Free water not required. Physiological adaptations to xeric environments include ability to concentrate urine (Abbott 1971, MacMillen 1972, Blackwell and Pivorun 1979). MacMillen and Christopher (1975) demonstrated annual cycling in urine concentration; lowest concentrations occurred in winter. Respiratory water-loss reduced through circadian torpor.

Pattern: Rocky areas with virtually any plant cover.

SPECIES LIFE HISTORY

Activity Patterns: Nocturnally active year-round though capable of entering daily torpor (for up to 10 hr) when stressed for food (Morhardt and Hudson 1966).

Seasonal Movements/Migration: None.

Home Range: No data found. Reported to be a quarrelsome and nervous mouse in captivity (Egoscue 1964).

Territory: No data found.

Reproduction: Seasonally polyestrous (Egoscue 1964). May reproduce year-round in California, with marked reduction of activity fall and winter (Bradley and Deacon 1971). Gestation is 24-25 days. Litter size averages 3 young (range 1-6) (Egoscue 1964).

Maximum number of litters 10-13 per yr (Rood 1966). Young are weaned at 4 wk. Some breed as early as 70 days after birth.

Niche: The canyon mouse is a small granivore/omnivore of rocky, arid lands. It is closely associated with the long-tailed pocket mouse and the desert wood rat. Predators include raptors, snakes, and predatory mammals. The canyon mouse is host to 22 fleas, 4 ticks, 8 mites,1 louse, and 1 nematode (Beck and Allred 1966, Egoscue 1964).

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