

California Wildlife Habitat Relationships System
California Department of Fish and Wildlife
California Interagency Wildlife Task Group

LOGEPOLE CHIPMUNK

Tamias speciosus

Family: SCIURIDAE
M063

Order: RODENTIA

Class: MAMMALIA

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DISTRIBUTION, ABUNDANCE, AND SEASONALITY

The lodgepole chipmunk is abundant in open-canopy lodgepole pine habitat in the Sierra Nevada from Lassen Co. to Tulare Co. It is less common in closed-canopy forest with sparse undercover. It also occurs in open-canopy stages of other forest habitats including Jeffrey pine, mixed conifer, and red fir. Occupies an elevational range of 1875-3250 m (6000-10,350 ft). In isolated populations in southern California mountains, occurs in open-canopy forests of mixed conifer, Jeffrey pine, lodgepole and limber pine, and occasionally in chaparral. Elevational range in the southern California mountains is 1950-3300 m (6400-10,900 ft).

SPECIFIC HABITAT REQUIREMENTS

Feeding: Feeds on fungi, seeds of forbs, grasses, shrubs, and trees, berries and other fruits (Tevis 1953, 1955), and some insects. Feeds on the ground, in shrubs, trees, on logs, snags, and stumps. Caches food for winter use.

Cover: Most authors refer to the arboreal habits of this species (Brand 1974, Broadbooks 1974). Uses trees for refuge, observation posts, and nests. Also uses cavities in logs, snags and stumps, and underground burrows.

Reproduction: Uses nests in burrows, and in cavities in trees, logs, stumps, and snags.

Water: No data found.

Pattern: Usually seen close to trees. Prefers open-canopy stages with some shrub cover. More arboreal than other chipmunks, except perhaps *T. senex* (Sharples 1978).

SPECIES LIFE HISTORY

Activity Patterns: Diurnal. Hibernates. Accumulates fat in autumn, but stored food is the principal energy source for the inactive period. In the Sierra Nevada hibernates from late October or November to March or April. Periods of dormancy are separated by arousals (every 5-6 days). When kept at 4°C (39°F), hibernating chipmunks had a body temperature of 4.8-5.2°C (40.6-41.4° F). This species shows a more pronounced inactivity in the laboratory than does *T. amoenus* or *T. minimus* (Jameson 1964, Jameson and Mead 1964, Heller and Poulson 1970).

Seasonal Movements/Migration: None.

Home Range: Home ranges of 1.0-2.0 ha (2.5-5.0 ac) were reported by (Roberts 1962).

Territory: Probably defends vicinity of nest. Highly aggressive with other chipmunk species, which it excludes from its preferred habitat.

Reproduction: The single litter is born in June in the Sierra Nevada. Average litter size is 5 (range 3-7) (Verner and Boss 1980). Gestation is about 1 mo.

Niche: This small, diurnal omnivore competitively excludes *T. amoenus* and *T. minimus* from lodgepole forests (Heller 1971, Heller and Poulson 1972). However, it is more vulnerable to heat stress, which may preclude it from sagebrush, pinyon-juniper, and alpine habitats (Heller and Gates 1971, Chappell et al. 1978). Predators probably include raptors, weasels, coyotes, foxes, bobcats, and martens. The habit of burying seeds aids in reforestation (Verner and Boss 1980).

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