DISTRIBUTION, ABUNDANCE, AND SEASONALITY

Townsend's mole is found along the North Coast in Del Norte and Humboldt cos., from the Oregon border south through about two-thirds of Humboldt Co. Optimum habitats are annual grassland, wet meadow, and early seral stages of redwood, Douglas-fir, mixed conifer, and montane hardwood-conifer forests. Townsend's mole in California mainly is a species of lowland river bottoms.

SPECIFIC HABITAT REQUIREMENTS

Feeding: Earthworms comprise 55-86% of the diet, with the remainder insects, seeds, roots, leaves, slugs, snails, and small mammals (Wight 1928, Moore 1933, Pedersen 1963, Whitaker et al. 1979). Forages beneath the surface in light, base-rich soils.

Cover: This mole is almost entirely subterranean, spending its time in underground burrow systems. Requires well-drained, friable soil for burrowing.

Reproduction: Nests in a grass-lined cavity 15-20 cm (6-8 in) below the surface. Nests sometimes are placed under "fortresses" (large mounds of earth 75-125 cm (30-50 in) in diameter), or near the center of a cluster of several normal-sized mounds (Kuhn et al. 1966, Maser et al. 1981).

Water: Water needs are met from the diet, especially from earthworms.

Pattern: Prefers well-drained, friable soils. Avoids dense woods and thickets. Clearing, draining, and fertilizing of cropland and pasture may have increased numbers of Townsend's mole. In agricultural lands, nesting sites may be located along fences or near trees to avoid disturbance by cattle and plows.

SPECIES LIFE HISTORY

Activity Patterns: Yearlong nocturnal activity. May be found above ground at night.

Seasonal Movements/Migration: May make short movements away from seasonally flooded areas.

Home Range: Home range averaged 0.17 ha (0.42 ac), varying from 0.003-1.04 ha (0.007-2.58 ac) (Giger 1973).

Territory: Adult home ranges do not overlap except during mating. Townsend's mole is aggressive in captivity (Giger 1973), and probably defends its burrow system against intruders. Populations occur in isolated patches, or colonies (Dalquest 1948).
Reproduction: Mating occurs in February and March, and the young are born in March and April after a gestation period of about 1 mo. Litter size averages 3 (range 2-4) (Larrison 1976) and there is 1 litter per year.

Niche: Townsend's mole is sympatric with the coast mole, which prefers drier soil and can be found in dense thickets. These species may be competitors in some areas. Predators include barn owls, rubber boas, dogs, cats, weasels, and skunks.

REFERENCES

Life history accounts for species in the California Wildlife Habitat Relationships (CWRH) System were originally published in: Zeiner, D.C., W.F. Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. California's Wildlife. Vol. I-III. California Depart. of Fish and Game, Sacramento, California. Updates are noted in accounts that have been added or edited since original publication.