California Wildlife Habitat Relationships System

California Department of Fish and Wildlife California Interagency Wildlife Task Group

MARSH SHREW Sorex bendirii

Family: SORICIDAE Order: INSECTIVORA Class: MAMMALIA

M011

Written by: V. Johnson, R. Duke Reviewed by: H. Shellhammer

Edited by: R. Duke

DISTRIBUTION, ABUNDANCE, AND SEASONALITY

The marsh shrew is found along the Pacific Coast from British Columbia south to Sonoma Co. in California. Usually found in marshy areas (fresh emergent wetland habitat), but also found in valley foothill riparian habitat, and during winter rains may frequent moist forests as far as 1000 m (3300 ft) from running or standing water (Pattie 1973). Abundance of the marsh shrew is unknown in prime habitat; it is uncommon to rare in winter in moist forest habitats.

SPECIFIC HABITAT REQUIREMENTS

Feeding: Preferred foods are eathhworms, sowbugs, spiders, centipedes, termites, and other soft-bodied arthropods captured above ground, and aquatic arthropods captured under water (Pattie 1969). Forages on the ground surface in humus and logs. Forages beneath water, swimming and probing with snout and whiskers, and carries prey to land for consumption or storage. Consumed nymphal stoneflies, mayflies, and alderflies, also phantom crane flies, ground beetles, snails, slugs, spiders, and other invertebrates (Whitaker and Maser 1976).

Cover: Often found under logs (Ingles 1965).

Reproduction: One nest was found under the loose bark of a Douglas-fir that had fallen over a stream, and was composed of shredded bark fibers (Maser et al. 1981).

Water: No data found on drinking, but found near water. Forages under water, and spends much time under water.

Pattern: Dense, mature riparian habitats with logs or litter are preferred for foraging and nesting. Adjoining dense, mature, wet forests for winter dispersal also may be important.

SPECIES LIFE HISTORY

Activity Patterns: Appears to be primarily crepuscular and nocturnal, but occasionally is trapped during the day.

Seasonal Movements/Migration: During the wet winter, young (and others) may disperse to wet forest habitats (Maser et al. 1981), but are basically non migratory.

Home Range: No data found.

Territory: No data found.

Reproduction: Information is scarce. Sexually active males have been collected from

February to August; sexually active females were trapped in May, June, and July (Pattie 1969). One litter was found in March. Litter size probably 3-4, with 4 most frequent.

Niche: Predators are likely to be owls, feral cats, Pacific giant salamanders, and large fish. Whitaker et al. (1980) found marsh shrews are externally parasitized by mites.

Comments: This species is poorly studied.

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Life history accounts for species in the California Wildlife Habitat Relationships (CWHR) 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.