

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

BUSHTIT

Psaltriparus minimus

Family: AEGITHALIDAE
B360

Order: PASSERIFORMES

Class: AVES

Written by: M. Green
Reviewed by: L. Mewaldt
Edited by: R. Duke, D. Winkler

DISTRIBUTION, ABUNDANCE, AND SEASONALITY

A common resident in a variety of habitats throughout most of the state, especially valley foothill and montane hardwood, valley foothill hardwood-conifer, and riparian. Also common in pinyon-juniper and juniper habitats. Absent from southeastern desert regions except for slopes of desert ranges. Also absent from western slope of Sierra Nevada above 2100 m (7000 ft) and the eastern slope above 2800 m (9200 ft), except as a vagrant. In fall and winter, vagrant in desert riparian habitats. Resident on Santa Cruz Island (Grinnell and Miller 1944, McCaskie et al. 1979, Garrett and Dunn 1981).

SPECIFIC HABITAT REQUIREMENTS

Feeding: Eats mostly insects and spiders; also eats berries and rarely seeds and nectar. Gleans foliage, twigs, and branches of trees and shrubs, and sometimes picks from ground. Feeds in flocks except during breeding season.

Cover: In coastal California, typically finds cover in chaparral, oak woodland, coastal scrub, and residential areas. In interior areas, inhabits chaparral, woodlands, and extends into pine forests at lower elevations. In eastern California, inhabits pinyon-juniper and juniper woodlands, and areas with mountain mahogany or other tall shrubs and small trees. Sometimes uses riparian habitats. Roosts in nest.

Reproduction: Builds pendant nest approximately 20 cm (8 in) long of spider webs and delicate plant material. Nest usually built less than 3.5 m (12 ft) above ground in tree or shrub.

Water: A study of water use by birds in a California oak woodland (Williams and Koenig 1980) reported no drinking, although bathes occasionally.

Pattern: Found in open and dense brush habitats in all stages of growth. In woodlands, generally prefers open areas with a dense understory.

SPECIES LIFE HISTORY

Activity Patterns: Yearlong, diurnal activity.

Seasonal Movements/Migration: Upslope movement occurs on western slope of Sierra Nevada after breeding (Gaines 1977b). Also moves occasionally in fall and winter into desert riparian habitats. Very gregarious except during breeding season.

Home Range: Ervin (1974) mapped flock home ranges averaging 18 ha (45 ac) in Santa Barbara.

Territory: Laudenslayer and Balda (1976) reported average territory of 1.4 ha (3.5 ac) in an Arizona pinyon-juniper-ponderosa pine ecotone. Hertz et al. (1976) reported a mean territory of 0.4 ha (1.0 ac) in an oak woodland in San Mateo Co. Breeding density in number of males per 40 ha (100 ac) have been reported as: 10 males in wax myrtle forest in Los Angeles Co. (McCarty 1975), 18 males in broadleaf evergreen forest in Alameda Co. (Cogswell 1973), and 40 males in California bay-buckeye mixed forest in Marin Co. (Stewart 1975).

Reproduction: Breeds from February to early August, with peak activity from April through June. Pair nests solitarily. Usually lays 5-7 eggs. Nests with 12 and more eggs have been found, but these probably result from more than 1 female laying (Bent 1946). May produce 2 broods per yr (Bent 1946). Incubation is 12-13 days. Altricial young tended by both parents and leave nest at 14-15 days (Harrison 1978).

Niche: Preyed upon by hawks, house cats, and other small mammals. May forage in flocks with other species. Group may roost huddled to conserve energy (Ehrlich et al. 1988).

REFERENCES

- Bent, A. C. 1946. Life histories of North American jays, crows, and titmice. U.S. Natl. Mus. Bull. 191. 495pp.
- Cogswell, H. L. 1973. Broadleaf evergreen forest with shrub-filled openings. Pages 992-993 in W. T. Van Velzen, ed. Thirty-seventh breeding bird census. Am. Birds 27:955-1019.
- Ehrlich, P. R., D. S. Dobkin, and D. Wheye. 1988. The birder's handbook. Simon and Schuster, New York. 785pp.
- Ervin, S. 1974. Flock integrity, pair maintenance, and the occurrence of supernumerary birds in the bushtit (*Psaltriparus minimus*). Ph.D. Thesis, Univ. California, Santa Barbara. 108pp.
- Gaines, D. 1977b. Birds of the Yosemite Sierra. California Syllabus, Oakland. 153pp.
- Garrett, K., and J. Dunn. 1981. Birds of southern California. Los Angeles Audubon Soc. 408pp.
- Grinnell, J., and A. H. Miller. 1944. The distribution of the birds of California. Pac. Coast Avifauna No. 27. 608pp.
- Harrison, C. 1978. A field guide to the nests, eggs and nestlings of north American birds. W. Collins Sons and Co., Cleveland, OH. 416pp.
- Hertz, P. E., J. V. Remsen, Jr., and S. I. Zones. 1976. Ecological complementarity of three sympatric parids in a California oak woodland. Condor 78:307-316.
- Laudenslayer, W. F., Jr., and R. P. Balda. 1976. Breeding bird use of a pinyon-juniper-ponderosa pine ecotone. Auk 93:571-586.
- McCarty, D. R. 1975. Wax myrtle forest. Pages 1123-1124 in W. T. Van Velzen, ed. Thirtieth breeding bird census. Am. Birds 29:1080-1145.
- McCaskie, G., P. De Benedictis, R. Erickson, and J. Morlan. 1979. Birds of northern California, an annotated field list. 2nd ed. Golden Gate Audubon Soc., Berkeley. 84pp.
- Stewart, R. E. 1975. Breeding birds of North Dakota. Tri-college Center for Environmental Studies, Fargo. 295pp.
- Williams, P. L., and W. D. Koenig. 1980. Water dependence of birds in a temperate oak woodland. Auk 97:339-350.