

## 100. COASTAL FRESHWATER MARSH

## PANTANO COSTANERO DE AGUA DULCE

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*Audubon Cypress Grove Preserve, P.O. Box 808, Marshall CA 94940*

**Location:** California; Marin Co.; Marshall; Livermore Marsh; 38°10'N, 122°53'W; Tomales Quadrangle, USGS. **Continuity:** Established 1988; 7 yr. **Size:** 10.5 ha. **Description of Plot:** See *J. Field Ornithol.* 60(Suppl.):64 (1989). Detailed quantitative habitat data from 1993 are available from the author. **Weather:** Mean start temp., 11.5°C (range 10–13°C). Generally mild with normal temperatures. Rainfall during the 1993–94 rainy season was 55.4 cm, 23% below the 38-yr average of 71.9 cm. Significant periods of rainfall extended into April. Source: Audubon Canyon Ranch. **Coverage:** 9.8 h; 8 visits (1 sunrise); 19 Apr; 2, 6, 10, 18, 20, 23, 27 May. **Census:** Red-winged Blackbird, 22.0 (84); Marsh Wren, 15.0 (57); Song Sparrow, 14.0 (53); American Coot, 8.0 (30); Mourning Dove, 8.0 (7N); Allen's Hummingbird, 4.0 (15); Pied-billed Grebe, 3.0 (11); Virginia Rail, 3.0; Wrentit, 3.0; Mallard, 2.0; Cinnamon Teal, 2.0 (1N); Bushtit, 2.0; Ruddy Duck, 1.0; Anna's Hummingbird, 1.0; Black Phoebe, 1.0; Chestnut-backed Chickadee, 1.0; Swainson's Thrush, 1.0; Yellow Warbler, 1.0; Common Yellowthroat, 1.0; Wilson's Warbler, 1.0; Black-headed Grosbeak, 1.0; California Towhee, 1.0; Brewer's Blackbird, 1.0; Brown-headed Cowbird, 1.0. **Total:** 24 species; 98.0 territories (373/40 ha). **Visitors:** Great Blue Heron, Great Egret, Green Heron, Black-crowned Night-Heron, Turkey Vulture, White-tailed Kite, Northern Harrier, Red-tailed Hawk, Common Snipe, Great Horned Owl, Belted Kingfisher, Tree Swallow, Northern Rough-winged Swallow, Cliff Swallow, Barn Swallow, Scrub Jay, American Crow, Common Raven, Bewick's Wren, European Starling, Lincoln's Sparrow, Golden-crowned Sparrow, Northern Oriole, Purple Finch, House Finch, American Goldfinch. **Remarks:** The hummingbird territories were all male. Two Northern Harrier territories were located in coastal prairie habitat adjacent to the study site. Mourning Dove, House Finch, and American Goldfinch were common on all visits but inadequately quantified because of non-territorial breeding behaviors. American Coots apparently produced no young this year. At least three of seven Mourning Dove nests failed. One Cinnamon Teal nest with eight eggs was depredated. **Acknowledgments:** This project is supported by Chevron USA and Audubon Canyon Ranch, Stinson Beach, CA, as part of a larger restoration and management program. Sarah Tappen compiled and summarized the results.