

31. COASTAL FRESHWATER MARSH PANTANO COSTANERO DE AGUA DULCE

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Cypress Grove Preserve

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Location: California; Marin Co.; Marshall; Livermore Marsh; 38°10'N, 122°54'W; Tomales Quadrangle, USGS. **Continuity:** Established 1986; 7 yr. **Size:** 10.5 ha. **Description of Plot:** See *J. Field Ornithol.* 60 (Suppl.):64 (1989). Arroyo Willow now covers approximately 10% of the middle marsh in patches 2-6 m high. **Weather:** Mean temperature 8.3°C (range 5-11°C). **Coverage:** 8.1 hrs; 7 visits (mornings): 16, 24, 30 Jan.; 13, 20, 26, 29 Feb. **Count:** Canvasback, 41.4 ind./visit, (7 visits); Song Sparrow, 14.7, (7); Red-winged Blackbird, 14.0, (6); Ruddy Duck, 12.9, (7); American Coot, 12.7, (7); Black-crowned Night-Heron, 9.6, (7); Marsh Wren, 9.6, (7); Mallard, 8.7, (6); American Wigeon, 8.6, (3); Golden-crowned Sparrow, 6.4, (7); Yellow-rumped Warbler, 6.0, (7); Common Yellowthroat, 4.0, (7); Dark-eyed Junco, 3.0, (2); Bufflehead, 2.1, (5); Turkey Vulture, 1.7, (1); Black Phoebe, 1.7, (6); Wrentit, 1.7, (6); Common Snipe, 1.6, (4); Ring-necked Duck, 1.4, (2); Northern Pintail, 1.3, (2); White-crowned Sparrow, 1.3, (3); Pied-billed Grebe, 1.1, (5); Cinnamon Teal, 1.1, (2); Allen's Hummingbird, 1.0, (2); Scrub Jay, 1.0, (6); Brewer's Blackbird, 1.0, (1); Chestnut-backed Chickadee, 0.7, (3); Great Blue Heron, 0.6, (3); Northern Flicker, 0.6, (3); American Crow, 0.6, (2); Ruby-crowned Kinglet, 0.6, (3); Lincoln's Sparrow, 0.6, (3); Swamp Sparrow, 0.6, (3); Northern Shoveler, 0.4, (1); Greater Scaup, 0.4, (2); Belted Kingfisher, 0.4, (3); California Towhee, 0.4, (2); Fox Sparrow, 0.4, (3); Snowy Egret, 0.3, (2); Northern Harrier, 0.3, (2); Cooper's Hawk, 0.3, (2); Red-tailed Hawk, 0.3, (2); Virginia Rail, 0.3, (1); American Robin, 0.3, (2); American Pipit, 0.1, (1); Mourning Dove, 0.1, (1); Anna's Hummingbird, 0.1, (1); Tree Swallow, 0.1, (1); Common Raven, 0.1, (1); Bewick's Wren, 0.1, (1); Winter Wren, 0.1, (1); Western Meadowlark, 0.1, (1); House Finch, 0.1, (1). **Total:** 53 species; 179 ind./visit (682 ind./40 ha). **Remarks:** Seventeen Black-crowned Night-Herons (based on one flush count) occupied a winter roost in the lower marsh bulrushes. Two male Allen's Hummingbirds and one male Anna's Hummingbird occupied breeding territories. Canvasback numbers fluctuated as they moved approximately 6 km to and from Abbott's Lagoon. The peak number at Livermore Marsh was 80. Red-winged Blackbirds were males exhibiting early territorial behavior. **Acknowledgments:** Data were compiled by Susan Kelly. This work was supported by Chevron USA, Inc., San Francisco, CA, and Audubon Canyon Ranch, Stinson Beach, CA.