

38. 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; 8 yr. **Size:** 10.5 ha. **Description of Plot:** See *J. Field Ornithol.* 60 (Suppl.):64 (1989). Arroyo willows continue to increase in number, covering approximately 10% of the middle marsh in patches 2–6 m high. **Weather:** Mean temperature 8.0°C (range 5–13°C). **Coverage:** 8.0 hrs; 7 visits (mornings): 4, 11, 12, 16, 22, 24 Feb.; 1 Mar. **Count:** Canvasback, 25.4 ind./visit, (7 visits); American Coot, 22.7, (7); Song Sparrow, 16.7, (7); Ruddy Duck, 13.7, (7); Black-crowned Night-Heron, 11.9, (7); Marsh Wren, 11.1, (7); Red-winged Blackbird, 8.3, (6); Golden-crowned Sparrow, 6.1, (6); American Robin, 5.4, (6); House Finch, 3.0, (4); Bufflehead, 2.3, (5); Ruby-crowned Kinglet, 2.1, (7); Mallard, 2.0, (2); White-crowned Sparrow, 2.0, (1); Virginia Rail, 1.9, (6); Common Yellowthroat, 1.9, (6); Pine Siskin, 1.9, (2); Pied-billed Grebe, 1.4, (7); Allen's Hummingbird, 1.4, (6); Tree Swallow, 1.4, (5); Wrentit, 1.4, (6); Yellow-rumped Warbler, 1.3, (4); Black Phoebe, 1.0, (6); Northern Flicker, 0.7, (3); Turkey Vulture, 0.6, (1); Anna's Hummingbird, 0.6, (4); Hermit Thrush, 0.6, (3); Belted Kingfisher, 0.4, (3); Bewick's Wren, 0.4, (3); Great Blue Heron, 0.3, (2); Snowy Egret, 0.3, (1); Cinnamon Teal, 0.3, (1); Common Snipe, 0.3, (1); Scrub Jay, 0.3, (2); California Towhee, 0.3, (2); Great Egret, 0.1, (1); American Wigeon, 0.1, (1); Greater Scaup, 0.1, (1); Hooded Merganser, 0.1, (1); Northern Harrier, 0.1, (1); Cooper's Hawk, 0.1, (1); California Quail, 0.1, (1); Sora, 0.1, (1); Glaucous-winged Gull, 0.1, (1); Downy Woodpecker, 0.1, (1); Chestnut-backed Chickadee, 0.1, (1); Winter Wren, 0.1, (1); Fox Sparrow, 0.1, (1). **Total:** 48 species; 153 ind./visit (584 ind./40 ha). **Remarks:** Fifteen 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 42. Red-winged Blackbirds were males exhibiting early territorial behavior. **Acknowledgments:** Field data were compiled by Susan Kelly. This work was supported by Chevron USA, Inc., San Francisco, CA, and Audubon Canyon Ranch, Stinson Beach, CA.