

27. COASTAL FRESHWATER MARSH

PANTANO COSTANERO DE AGUA DULCE

JOHN P. KELLY

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

Location: California; Marin Co.; Marshall; Livermore Marsh; 38°10'N, 122°54'W; Tomales Quadrangle, USGS. **Continuity:** Established 1986; 10 yr. **Size:** 10.5 ha. **Description of Plot:** See *J. Field Ornithol.* 60(Suppl.):64 (1989) and 66(Suppl.):28-29 (1995). **Weather:** Mean start temp. 8.6°C (range 5-12°C). **Coverage:** 7.8 hrs; 7 visits (mornings): 18 Jan; 2, 10, 14, 16, 24, 27 Feb. **Count:** Song Sparrow, 12.3 ind./visit (7 visits); Marsh Wren, 9.1 (7); Bufflehead, 7.9 (7); Red-winged Blackbird, 7.9 (4); American Robin, 4.9 (7); Mallard, 4.4 (6); Ruby-crowned Kinglet, 3.7 (7); Virginia Rail, 3.0 (6); Tree Swallow, 2.7 (2); Ruddy Duck, 2.4 (6); White-crowned Sparrow, 2.1 (4); Pied-billed Grebe, 2.0 (7); Yellow-rumped Warbler, 2.0 (7); Allen's Hummingbird, 1.9 (5); Common Yellowthroat, 1.7 (5); Bushtit, 1.6 (2); Fox Sparrow, 1.6 (4); American Coot, 1.4 (5); Ring-necked Duck, 1.3 (1); Common Snipe, 1.3 (4); Great Blue Heron, 1.0 (5); Cinnamon Teal, 1.0 (3); Black Phoebe, 1.0 (4); Wrentit, 1.0 (5); Golden-crowned Sparrow, 1.0 (2); Purple Finch, 1.0 (3); Black-crowned Night-Heron, 0.7 (1); Bewick's Wren, 0.7 (4); Chestnut-backed Chickadee, 0.6 (2); California Towhee, 0.6 (3); Anna's Hummingbird, 0.4 (3); Belted Kingfisher, 0.4 (3); Hermit Thrush, 0.4 (2); Cooper's Hawk, 0.3 (1); Red-tailed Hawk, 0.3 (2); Sora, 0.3 (2); Winter Wren, 0.3 (2); Golden-crowned Kinglet, 0.3 (1); Great Egret, 0.1 (1); American Wigeon, 0.1 (1); Canvasback, 0.1 (1); Sharpshinned Hawk, 0.1 (1); Red-shouldered Hawk, 0.1 (1); American Kestrel, 0.1 (1); Glaucous-winged Gull, 0.1 (1); Northern Flicker, 0.1 (1); Varied Thrush, 0.1 (1). **Total:** 47 species; 87.7 ind./visit (334 ind./40 ha). **Remarks:** Black-crowned Night-Herons did not occupy the lower marsh bulrushes where a winter roost was formed in previous years. One male Allen's Hummingbird and two male Anna's Hummingbirds occupied breeding territories. Diving duck numbers remained low for the second winter. Coincidentally, one to four river otters (*Lutra canadensis*) occupied the marsh for the second winter. **Acknowledgments:** Field data were compiled by Sarah Tappen. This work was supported by Chevron U.S.A., Inc., San Francisco, CA, and Audubon Canyon Ranch, Stinson Beach, CA.