

**26. COASTAL FRESHWATER MARSH****PANTANO COSTANERO DE AGUA DULCE****JOHN KELLY***Cypress Grove Preserve**P.O. Box 753**Marshall, California 94940*

**Location:** California; Marin Co.; Marshall; Livermore Marsh; 38°10'N, 122°54'W; Tomales Quadrangle, USGS. **Continuity:** Established 1986; 4 consecutive years. **Size:** 10.5 ha. **Description of Plot:** See *J. Field Ornithol.* 60(suppl.):64 (1989). Arroyo Willows are increasing, covering 3–5% of the middle marsh in patches 2–5 m high. The upper (NE) third of the study area is covered approximately 50% by rushes with 20–25% of the upper marsh area covered with standing water. **Weather:** Mean temperature: 7.6°C (range 5 to 10°C). **Coverage:** 10.8 hrs; 8 visits (all mornings); 20, 25, 27 Jan.; 10, 15, 20, 24, 27 Feb. **Count:** Canvasback, 44.1 ind./visit (8 visits); Ruddy Duck, 17.0 (8); American Coot, 13.4 (8); Marsh Wren, 12.9 (8); Song Sparrow, 12.6 (8); Buffiehead, 10.6 (8); Black-crowned Night-Heron, 10.4 (8); Red-winged Blackbird, 9.8 (8); American Wigeon, 7.1 (7); Common Snipe, 6.0 (8); White-crowned Sparrow, 4.0 (3); Mallard, 3.1 (8); Ruby-crowned Kinglet, 3.0 (8); Golden-crowned Sparrow, 2.4 (5); Cinnamon Teal, 2.0 (3); Wrentit, 1.9 (7); Ring-necked Duck, 1.6 (6); Greater Scaup, 1.6 (3); Common Yellowthroat, 1.6 (6); Black Phoebe, 1.5 (8); Tree Swallow, 1.3 (1); Lincoln's Sparrow, 1.1 (5); House Finch, 1.1 (2); Pied-billed Grebe, 1.0 (5); Anna's Hummingbird, 0.8 (4); Lesser Scaup, 0.6 (3); Yellow-rumped Warbler, 0.6 (2); Gadwall, 0.5 (2); Common Goldeneye, 0.4 (2); Allen's Hummingbird, 0.4 (2); Belted Kingfisher, 0.4 (3); Brown Towhee, 0.4 (2); Great Blue Heron, 0.3 (2); Northern Flicker, 0.3 (1); American Robin, 0.3 (2); Loggerhead Shrike, 0.3 (2); Fox Sparrow, 0.3 (2); Western Meadowlark, 0.3 (1); Osprey, 0.1 (1); Northern Harrier, 0.1 (1); Sharp-shinned Hawk, 0.1 (1); Cooper's Hawk, 0.1 (1); California Quail, 0.1 (1); Dunlin, 0.1 (1); Glaucous-winged Gull, 0.1 (1); Scrub Jay, 0.1 (1); Bewick's Wren, 0.1 (1); European Starling, 0.1 (1). **Total:** 48 species; 177.9 ind./visit (678 ind./40 ha). **Re-**

**marks:** Black-crowned Night-Herons occupied a winter roost in the lower (SW) marsh bulrushes, with a high count of 17 individuals (not during a regular count period). Roosting flocks of 500-1000 Red-winged Blackbirds occupied the lower (SW) marsh bulrushes in the evenings. Count totals of Red-winged Blackbirds represent individual males exhibiting early territorial behavior. All Common Yellowthroats observed were males, apparently occupying stable winter territories. Marsh Wrens occupied a larger proportion of the study area than during the breeding season, extending into the upper (NE) third of the marsh.

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