



Pacific-slope Flycatcher
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2006 BREEDING BIRD SURVEY Kristin Schmidt

The Breeding Bird Survey (BBS) route in the park was completed on 14 June 2006. The survey followed established BBS protocol. Survey results for 2006 are summarized in Table 1. All data and other survey information were forwarded to the U.S. Geological Service Wildlife Research Center at Laurel, Maryland to be used in an analysis of bird population trends throughout a species range. Appendix A has location information for each stop along the route.

This year marks the first year since the BBS route was established in 1995 that the original observer (Sakai) did not conduct the survey. Thus, as may be expected whenever there is a change in observers there was some variability in both number of species detected and numbers of birds within species detected. For example, seven species not detected in the previous 11 years of survey were detected in 2006. These first-time detections most likely represent sampling error, or observer bias in the case of at least two species which were detected at multiple stops and are highly expected to occur along this particular route. However, total species detected and (for the majority of species) numbers of individuals detected were comparable to numbers detected in previous years (Table 1).

Species with notable decreases in numbers detected in 2006 compared to previous years included Steller's jay (6 versus an average of 16 per survey in the previous 11 years), American robin (3 versus an average of 25), and chestnut-backed chickadee (6 versus an average of 25), all relatively easy to detect species. Conversely, two species were detected at greater numbers than in any prior year, varied thrush (49 versus an average of 22 per previous survey) and white-crowned sparrow (16 versus an average of 3). Numbers of all other species were comparable to those from previous years, with the

obvious exception of the new species detected in 2006. The new species were Allen's hummingbird, western wood-pewee, Hutton's vireo, tree swallow, hermit warbler, black-headed grosbeak, and house finch.

Other items of note: with the exception of osprey, no hawks have been detected on the survey during at least the past four years. Double-crested cormorants, detected every year from 1995 through 2002, have not been detected since. Brown pelicans (non-breeders) have not been recorded prior to 2006, probably for that very reason.

Table 1. Bird species and numbers detected for each BBS from the beginning of the route in 1993 through 2006.

Species	Surveyed Year											
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Wood duck	0	5	0	2	1	7	0	2	0	0	0	0
Common Merganser	0	2	0	0	0	0	0	0	0	0	0	2
California Quail	4	7	17	4	9	5	11	8	6	12	12	3
Double Crested Cormorant	4	1	2	19	4	1	2	3	0	0	0	0
Great Blue Heron	1	0	2	0	5	1	1	2	5	0	0	1
Great Egret	0	1	0	0	0	0	0	0	0	0	0	0
Turkey Vulture	0	0	0	0	0	0	1	0	2	1	0	0
Osprey	0	0	2	2	2	3	2	3	1	1	2	3
Bald Eagle	0	0	1	0	1	0	0	0	0	0	0	0
Cooper's Hawk	0	0	0	0	1	0	0	0	0	0	0	0
Red-shouldered Hawk	1	0	1	0	0	0	0	0	0	0	0	0
Red-tailed Hawk	1	0	0	0	2	0	0	1	0	0	0	0
Western Gull	0	3	2	0	2	0	0	0	0	0	0	0

Species	Surveyed Year											
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Marbled Murrelet	0	0	0	0	0	0	0	0	0	2	1	0
Band-tailed Pigeon	6	24	19	5	13	38	11	26	10	19	20	16
Northern Pygmy Owl	0	1	0	0	0	0	0	0	0	0	0	0
Vaux's Swift	2	1	2	0	0	1	0	0	2	4	1	0
Allen's Hummingbird	0	0	0	0	0	0	0	0	0	0	0	1
Rufous Hummingbird	1	4	2	1	0	0	0	0	0	0	0	0
Hummingbird species	0	0	1	0	0	2	1	0	2	1	3	3
Belted Kingfisher	0	1	0	0	0	2	0	0	0	0	0	1
Downy Woodpecker	0	0	0	0	0	0	0	0	0	1	2	1
Hairy Woodpecker	2	3	0	0	1	1	1	0	0	0	0	1
Red-shafted Flicker	2	0	0	1	3	1	1	1	2	0	0	0
Pileated Woodpecker	0	0	0	0	0	0	1	0	0	1	0	1

Species	Surveyed Year											
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Willow Flycatcher	0	0	1	0	0	0	0	0	0	0	0	0
Pacific-slope flycatcher	20	23	15	27	30	14	10	33	18	6	16	26
Western Wood-pewee	0	0	0	0	0	0	0	0	0	0	0	1
Black Phoebe	0	2	1	1	2	0	0	1	0	0	1	0
Hutton's Vireo	0	0	0	0	0	0	0	0	0	0	0	3
Cassin's Vireo	0	2	2	0	0	0	0	0	0	0	0	0
Warbling vireo	0	1	4	1	3	1	0	1	2	0	0	1
Steller's Jay	11	11	13	12	18	14	21	16	23	13	23	4
American Crow	0	0	0	0	0	0	0	0	0	4	2	2
Common Raven	9	8	39	16	23	24	15	26	11	12	15	9
Tree Swallow	0	0	0	0	0	0	0	0	0	0	0	1
Violet-green swallow	2	16	6	3	5	2	1	4	2	3	4	6
Northern Rough-wing Swallow	6	6	4	3	4	2	2	3	1	0	0	3
Cliff Swallow	0	0	1	0	8	4	2	0	0	5	0	8
Barn Swallow	9	18	17	8	8	15	5	11	9	7	13	2
Swallow species	0	0	0	0	0	0	0	0	0	0	0	2

Species	Surveyed Year											
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chestnut-backed Chickadee	27	39	37	16	23	30	21	24	22	21	15	3
Brown Creeper	5	8	6	4	4	4	2	6	2	1	0	3
Winter Wren	35	66	54	59	54	51	32	56	26	39	45	38
Marsh Wren	1	0	0	3	1	3	4	4	1	1	1	8
Golden-crown Kinglet	12	28	20	19	16	20	13	14	13	9	8	11
Ruby-crowned Kinglet	0	0	0	0	0	2	1	1	0	0	0	0
Swainson's Thrush	72	82	87	50	54	60	70	60	56	65	72	59
American Robin	9	26	20	33	36	38	16	35	13	22	24	6
Varied Thrush	16	17	21	25	22	20	28	22	21	29	19	49
Wrentit	2	2	3	0	0	0	0	0	0	1	2	4
European Starling	16	11	5	20	15	9	20	13	14	2	8	15
Cedar Waxwing	10	7	3	0	2	3	2	1	2	0	0	1
Orange-crowned Warbler	2	10	11	7	9	4	3	6	8	6	2	2
Hermit Warbler	0	0	0	0	0	0	0	0	0	0	0	1

Species	Surveyed Year											
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Wilson's Warbler	46	48	44	43	42	44	38	44	34	36	45	37
Common Yellowthroat	0	0	0	4	1	0	0	1	2	0	2	0
Yellow-breasted Chat	0	0	0	0	0	0	0	0	0	0	1	0
Black-headed Grosbeak	0	0	0	0	0	0	0	0	0	0	0	3
Western Tanager	0	0	0	0	0	0	0	0	1	0	0	0
Spotted Towhee	1	0	0	0	0	0	0	0	0	0	0	0
Song Sparrow	16	27	31	18	23	21	24	28	32	30	38	21
White-crowned Sparrow	2	10	3	0	3	4	3	2	0	1	2	16
Oregon Junco	3	0	0	1	3	2	0	0	0	0	0	0
Red-winged Blackbird	11	7	19	13	11	11	8	9	9	10	6	9
Brewer's Blackbird	19	15	23	3	5	10	3	5	2	1	1	2
Brown-headed Cowbird	0	3	4	1	2	0	0	0	1	0	1	0
Purple Finch	3	3	5	2	3	3	1	1	3	0	0	6
House Finch	0	0	0	0	0	0	0	0	0	0	0	1

Species	Surveyed Year											
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Red Crossbill	0	0	0	0	0	0	0	0	0	3	0	0
Pine Siskin	0	0	0	0	0	0	3	0	0	0	0	0
American Goldfinch	1	0	13	4	11	0	6	8	9	0	8	11
House Sparrow	2	3	11	14	9	0	5	3	5	6	5	7
TOTAL SPECIES	37	40	42	35	43	38	38	37	36	33	34	47
TOTAL INDIVIDUALS	391	552	574	444	494	477	391	486	345	374	420	414
Brown Pelican	0	0	0	0	0	0	0	0	0	0	0	4

Appendix A. Breeding Bird Route Information and Stop Descriptions

BBS route: 14-908 Redwood N.P. (Some descriptions revised by K.Schmidt 2006)

Stop #	Location Description	Reference to Road
1	RNSP south entrance sign turnoff (R= right of hwy 101)	R
2	Middle Freshwater Lagoon	R
3	End Freshwater Lagoon	R
4	RIC (Kuchel) road intersection with Hwy	L
5	Dump intersection w/hwy 101 (L= left of hwy 101)	L
6	Just past Adventures Crafted woodshop, no pull out park as far off hwy 101	R
7	Pasture before school speed limit 25mph sign, on left side dark brwn building	R
8	Parking lot past Orick bridge and south of Mexican restaurant. Stand in middle	R
9	Edge of Orick town, gravel turnout, across small yellow house in pasture	R
10	Bald Hills Intersection, stand on north side of intersection	R
11	Before bridge over Prairie Creek, bunch of willows betwn hwy 101 & pasture	R
12	Across Davison mitigation pasture, stop in road intersection to house	R
13	Davison Road intersection, Rolf's restaurant no longer standing.	L
14	Gravel pullout on left side of road into a right hand turn, past Arcata Redwood office; see row of abandoned yellow houses to the west beyond alders/willows	L
15	Fish hatchery driveway	R
16	Gravel on left side of hwy 101before sharp right hand curve, before large redwood trees. 35 mph sign	L
17	Past house with nice wood fence, fruit trees and penned birds on left side of 101	L
18	Wolf creek School Intersection and Newton Drury Parkway (L= Newton Drury Parkway	L
19	Elk Prairie parkway, about 50' before 35 mph speed sign	R
20	About 50' before Prairie Creek maintenance building intersection	R
21	About 50' past Cal-Barrel road (past a big redwd tree), small turnout	R
22	At 128.10 road marker – Big Trail entrance	R
23	Just past 128.65 road marker, paved pullout	R
24	Before 129.17 marker, small paved turnout, next to Edith Rehnborg Memorial Grove sign	R
25	Before 129.72 road marker, paved turnout	L
26	Before Mary Glide Doeth Memorial Grove trailhead which is on left side of Parkway. Survey station is on Right	R
27	Just past 130.54 marker, small paved turnout	R

Stop #	Location Description	Reference to Road
28	Past Norman Grove turnout, long paved turnout on left side is survey station; across on right side is 131.17 marker	L
29	Past 131.50 marker, small turnout	R
30	Past 132.00 marker and around a left turn. Survey station is a narrow turnout on left side	L
31	Across from National Garden Club Grove sign at 132.69 marker, long narrow turnout on left	L
32	about middle way up of curvy uphill grade, past guard rail, paved turnout	R
33	Past 133.50 marker and before road sign warning curves ahead, before Ah Pah intersection is a paved turnout	R
34	On right side below summit of hill crest before left turn curve, paved turnout with berry bushes on right and old-growth trees surrounding area.	R
35	On coastal drive road, from intersection about 200-300' going downhill before left turn curve. No mileage markers. No turnout. Use odometer as guide to station 36.	L
36	No turnout, after coming up grade on top and after 100.064 marker as 100 076 marker is missing. Pull off paved road as far right and census. Use odometer as guide to station 37.	R
37	Before signage (rough road next 3 miles and 20 mph signs), before road gets gravelly. Survey Station is about 20-30' from signage.	R
38	Overlook to left, used to be a wayside exhibit called Josiah Gregg's Ordeal. This overlook has bricked rocks and overlooks Ossagon Rock area. Use odometer as guide to station 39.	L
39	Past signage (rough road) is a small grassy gravel/dirt pullout before 0.1 mi of Alder Camp gate. Use odometer as guide to station 40	L
40	No distinct markers, but station is a dirt turnoff to left with large spruce and alders and ocean pretty close. Used to have a wayside exhibit called ground-clouds written-on-the-wind signage but no longer. Used odometer as guide to station 41.	L
41	Station is on gravel road right side at base of a hill, alders on Oceanside with lots of salmonberry bushes on right side hill. Use odometer as guide to station 42	R
42	Going downhill on paved road have some ocean view. No real good marker, guess rely on odometer. Used to have a wayside exhibit. Use odometer as guide to station 43	L
43	Downhill on gravel road of Coastal Drive, to right is a small grassy pullout, powerline is missing. Use odometer as guide to station 44.	R
44	Past Klamath River road intersection and High Bluffs but stick on coastal drive or now called alder camp road. Station is on right side as start to head downhill on Alder Camp road on straight away pull off to right. Leftside has lots of Alder trees in a depression. Use Odometer as guide to station 45	R

Stop #	Location Description	Reference to Road
45	Just past a sharp right turn on Alder Camp road heading downhill and into a left turn is a turnout on left side as soon as pullout of the left turn. Use odometer as guide to station 46.	L
46	Just past a large bank on left side that has a large redwood tree (relative compared to others but no other markers). Use odometer as guide to station 47	L
47	Adjacent to Marshal pond on left side pull over on a narrow pullout located about 100' from a 20 mph sign located on right side. Use odometer to guide to station 48. Turn right at intersection onto Klamath River Road.	L
48	On Klamath River Road. Turnout to left before a sharp right hand curve, pullout is on left just before a telephone pole. Station overlooks into Klamath river. Use odometer to station 49	L
49	On Klamath river road. Past trailer court and construction yard, paved road heads downhill into a sharp right turn, but before road veers left look right side is a turnout. This turnout is the census station. Use odometer to station 50	R
50	Large/long paved turnout before telephone pole is the census station. This turnout is close to the on ramp south to hwy 101.	R