

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - PHOENIX LAKE

1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	SPECIES				
		10		1	4	6	11	10	7	98					25	200	75	50	3	20	5	56		60	2	11	77		13	3		gull sp.				
25	6		2		5		5	7				5	4	2	9	3	1		1	7	3	1		2	3	10	1	3		1	1	Rock Pigeon				
65	5	38	19		36	62	89	41	219	10	75	28	1	39	2		88	26	47		24	44	24	4			3	6	77	72	27	Band-tailed Pigeon				
		12	7	1	1	3	4	3	3	4	5		5	3	7	15		4		7		1	10	6		7		1				Mourning Dove				
2						2		4		1	1	1					1					1						2				Western Screech-Owl				
	1				4	3		5		3																		5					Great Horned Owl			
1																	1																Northern Pygmy-Owl			
1																	CW																Spotted Owl			
1																																		Northern Saw-whet Owl		
																																2		White-throated Swift		
6	11	9	13	6	15	15	6	28	29	23	12	11	7	5	18	6	18	9	12	14	8	24	10	2	10	4	5	20	2	6	9	Anna's Hummingbird				
1	1						1		1	1	1		1	2	2												1	1			1		Belted Kingfisher			
26	11	10	23	18	20	12	13	12	12	26	17	16	22	21	14	16	10	37	6	17	23	20	11	17			10	20	15	14	45		Acorn Woodpecker			
					1																														Red-naped Sapsucker	
1	1		1	2	4	1		1	1	2	2					1			1		1		1		1	12		2	1				Red-breasted Sapsucker			
			1		2			2	5	7	5	4	3	5	5	7	6	4	2	8	5	3	3	3	5	5	4	2	6	2	12	15		Nuttall's Woodpecker		
			1		2	1	1			3	1		1	1		1	1	1	2	1	2	1					1	4	1	1	3			Downy Woodpecker		
			1												2		1	3	3	1	2	1	4		2	2	2		4	1	1	2		Hairy Woodpecker		
											16	11	16	8								9	26	10		5	4	8	9	9	16	35		Northern Flicker		
16	6	13	6	5	10	12	13	23	15	24					19	22	13	8	6	9	2	7			8			1	15	1			Northern (Red-shafted) Flicker			
															1					2															Northern (Yellow-shafted) Flicker	
1			1	1		2	2	1	2	2	1	1	1				2			1	1	3	1			1					1	3		Pileated Woodpecker		
2		1	2	1	3	1	2	3	1	2	2	1		1	1	2	4	4	5	5	5	2	2	2	2	7	4	7	7	5	3	5		Black Phoebe		
																																				Say's Phoebe
			1	6	20	8		2				5	2	1	1	4	3	1	3	2	2	3	2	2		1								Hutton's Vireo		
18	13	14	13	2	8	11	12	31	16	16	13	9	5	6	12	8	15	9	7	8	4	20	10	2	7	3	2	13	3	5	32		Steller's Jay			
17	19	19	21	15	16	22	9	26	24	17	32	44	33	24	29	21	18	38	17	21	20	32	30	8	21	4	10	30	15	25	36		Western Scrub-Jay			
8		6	11	4	32	23	18	29	39	20	19	15	10	58	93	35	143	33	157	56	42	51	20	19	78	22	29	126	24	63	34		American Crow			
4	6			1		2	6	9	5	53	3	3	5	3	9	2	55	4	7	4	3	2	3	4	7		3	6	7	4	31		Common Raven			
55	40	14	21	52	26	24	9	41	43	24	15	20	18	6	21	9	39	14	14	11	16	80	12	5	4	7	7	65	4	9	64		Chestnut-backed Chickadee			
21	23	13	8	20	23	15	12	5	23	21	23	22	10	19	13	20	17	15	19	16	17	44	30	7	13		10	55	8	16	19		Oak Titmouse			
43	26	12	23	59	51	47	18	26	18	52	37	53	98	5	5	9	38	25	17	21	10	52	80			17		35	20				Bushtit			
	4																	1					2												Red-breasted Nuthatch	
2	1	2	5	7	6	5	1	1	5	1	11	5	3	7	9	6		5	4	4	2		1		6	2	3	11	1	4	8		White-breasted Nuthatch			
2																																			Pygmy Nuthatch	
2		4	1	9	4	7	6	3	13	18	7	10	3	2	6	1	8	2	5	3	2	21	2		1	5		5	2	3	24		Brown Creeper			
	1																																		Rock Wren	
4	5	1	3	8	10	10	9	17	6	7	8	6	6	2	1	3	10	4	2	14	7	11	2	3	4	2	3	9	8	10	10		Bewick's Wren			
7	2	1	2	1	6	5	6	1	3	1	2		1	1	2	1	2	2		2	1	12				1		3	1					Winter Wren		
															1	1				1															Marsh Wren	
29	31	12	13	10	10	6	6	10	5	2	4	4		2		1	9	1					42	5			2		6					Golden-crowned Kinglet		
30	26	18	27	39	22	13	19	35	30	43	32	16	11	19	51	9	42	26	27	28	30	31	14	4	10	11	9	26	20	11	30		Ruby-crowned Kinglet			
								15			2	1		3	2			1														3	20		Western Bluebird	
12	19	9	30	34	32	17	30	53	47	31	16	20	11	15	11	9	16	5	14	12	15	9	31	4	15	7	3	67	13	5	2		Hermit Thrush			
5	381	145	166	50	57	754	220	98	697	378	135	238	750	367	97	210	105	875	130	112	275	70	270	33	145	32	22	313	252	144	80		American Robin			
31	23	7	6		39	13	45	16	17	11	48	68	3	19	29	135	5	21	1	7	11	3	46	2	2	2		135	5	15	18		Varied Thrush			
3	6	6	12	12	3	10	12	6	6	12	6	5	2	2	4	2	7			2	3	9	1			1		5	4					Wrentit		
1	1	2	2			1		2	3	2		1	3	2	4	2	2	1				1	1	2	2	2		1	1		1			Northern Mockingbird		
5	14	15	50		67	25	20	55	24	73	13	45	55	40	52	30	61	27	40	2000	16	26	30	3	17	1	1	9	22	5	40		European Starling			
1				1																															American Pipit	
5	4	167	18	44	48	68	71	33	44	57	32	68	74	27	54	20	24	45	7	20	10	53	183	9	12	70	59	9	210	14			Cedar Waxwing			
					6	2	9	10	26	4	17	7	10	7	6	4	2	6	7	15	8	6	5	14	2	5			7	12	9			Yellow-rumped Warbler		
	4	1		1	1				6	10		4	1		3	2		2	6				2	3										Yellow-rumped (Audubon's) Warbler		
	1		2			4			1	2	3	6			2	1	2	2	17					1					3	1				Yellow-rumped (Myrtle) Warbler		

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1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	SPECIES					
4	5	13	2	14	11	7	2	11	28	36	11	3	1	2	3	1	12	3	5	2	5	24	9			3	1	1		3	2	Townsend's Warbler Common Yellowthroat					
									1								1	1																			
6	10	14	2	14	7	11	11	13	7	7	16	13	11	14	20	6	11	6	5	7	4	8	16	1	8	7	5	53	6	15	12	Spotted Towhee California Towhee					
18	32	30	18	26	11	12	20	18	14	14	18	27	37	13	18	12	19	14	7	14	14	14	30	7	14	12	19	51	27	25	9	Rufous-crowned Sparrow					
	3		2		2	3	2	6	1	5	3	3			1		2					2	2				2			3							
1	1	3			2	2	6	8	3	11	4	6	9	3	4	2	7	2		4	2	2	5	4	3	1	3	9	3	8			Fox Sparrow				
11	5	11	5		6	7	5	7	11	13	9	8	5	8	8	6	11	6	5	3	15	7	4	6	13	2	3	2	5	10	10			Song Sparrow			
			1																																Lincoln's Sparrow		
								1									1					2													White-throated Sparrow		
31	7	43	8	33	27	13	53	17	9	20	23	26	49	23		7	39	11	2	22	20	42		10	29	2	30		60	13	18			White-crowned Sparrow			
20	29	76	10	5	7	17	6	48	21	68	31	41	50	105	53	24	34	22	24	34	13	55	72	12	13	20	19	108	12	35	20			Golden-crowned Sparrow			
107	146	116	89	121	39	95	74	128	103	99	66	185	50	115	121	109	71	95	124	86	55	190	144	8	60	24	12	233	23	53	106			Dark-eyed (Oregon) Junco			
											1	300					10	40		1100	125	1	4				280								Western Tanager		
3																																			Red-winged Blackbird		
											100																									Tricolored Blackbird	
			3					22															19					13								Western Meadowlark	
	3			1												5				2																Brewer's Blackbird	
2	2	5	3	25	2	43	26	12	13	25	9	19	8	19	32	8	6	3	5	4	2	10	7	1	2		3	4	1	10				Purple Finch			
10	24	14	18	1	6	14	16	39	33	23	16	37	25	2	26	2	7	9	10	10	7	19	19	4			24	34	13	29					House Finch		
																			23																	Red Crossbill	
2	38	5	2			118	32	18	63	1	12	9	100	25													2		3		45				Pine Siskin		
	23				17	2	24	10	3	41	45	12		13	2			CW			2	11	15	8	2	21	6		29	35	23	48			Lesser Goldfinch		
	2	2						1	12		1	2			1	4			1					1				23		1						American Goldfinch	
	16			CW				2																												Evening Grosbeak	
5	2	13	3		5		2	1	11	8	12	7	2	5	10	3	2	2		2	6	5	1	1	1					3	1				House Sparrow		
719	1112	959	769	701	740	1620	968	1158	1888	1569	1429	1376	1643	1127	1086	1092	1266	1568	2096	2922	976	1405	1274	319	697	652	501	1737	1065	863	1167				Individuals		
58	60	49	63	50	54	60	54	75	71	70	65	66	65	58	64	62	70	60	59	64	66	74	55	51	51	48	47	60	55	60	66				Species		
	1								1	1		1			2	1		1	2					1				1		1						Additional Forms	
																																					Hybrids
58	77	80	90	93	96	99	102	108	111	111	112	114	114	115	115	117	118	118	118	118	119	120	121	122	122	122	122	122	122	123	125				Cumulative Species		
4	3	3	2	3	5	2	2	3	3	2	2	2	2	3	1	3	3	3	5	3	3	2	3		3	3	2	5	4	3	2				Observers in the field		
1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	3	1	1	1				Minimum number of parties		
																																					Maximum number of parties
9	11	4	8	10	10	9	11	10	9	10	8	8.5	8	8	8	6.5	11	6.5	9.75	8.5	8	9	8		6	6	5.25	17	6	7	8.5				Party hours on foot		
1	1	3	1			1	1	1	1		0.5	0.5	0.5	0.5	0.5	0.5	1	0.5		0.5	0.5	1	0.5		1	0.75	1	2	1	1	0.5				Party hours by car		
																																					Party hours by bicycle
10	12	7	9	10	10	10	12	11	10	10	8.5	9	8.5	8.5	8.5	7	12	7	9.75	9	8.5	10	8.5		7	6.75	6.25	21.5	7	8	9				Total Party Hours		
8	9	4	6	5	6	5	5	6	7	7	8	7	6	7	9	6	9	6	7	8	8	8	7		5	6	15	12	6	6	12				Party miles on foot		
4	3	10		3	3	3	2	2	2	2	4	4	4	4	4	4	4.5	4		4	4	4	4		5	4	5	11	5	5	3				Party miles by car		
																																					Party miles by bicycle
12	12	14	6	8	9	8	7	8	9	9	12	11	10	11	13	10	13.5	10	7	12	12	12	11		10	10	20	29.5	11	11	15				Total Party Miles		
2	2		1	2	1	1	1	2	3	2	0.5	0.25					2.5						3					1.5								Nocturnal Hours	
							1	1	2	1	0.5	0.25					2						2					2								Nocturnal Miles	
															700	715	430	730	700	715	715	415	700			715	745	740	600	730	730	700				Starting Time	
															1530	1430	1730	1500	1645	1615	1600	1715	1645			1415	1500	1545	1645	1545	1630	1600				Ending Time	

CW = species seen during count week but not count day