

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - SAN RAFAEL

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				
															1																		Yellow Warbler			
3	11	70	98		263	29	121	62	51	121	162		49	219	298	109	50	19	31	117	37	114	70	25	120	36	256	10	2	116	87	Yellow-rumped Warbler				
		4	46	25	14	142	44	1	117	1	30	79	13		63		3	2	9	26	89	50	72	14	70	14	116	175	44	84	77	Yellow-rumped (Audubon's) Warbler				
		3	4	14	8	27	19	5							8				5	2		1		3	39	3	18		21	3	29	Yellow-rumped (Myrtle) Warbler				
	2	1	14	24	1	10	16	3	6	8	3	3			7		3		8	5	21	8	12	7	3	5	13	18	31	2	8	Townsend's Warbler				
								1																									Hermit Warbler			
		1		1		3		3	2				1				3	1		3	7	2	3		5	1	5	1	3	6	6	Common Yellowthroat				
																																		Wilson's Warbler		
3	2	14	28	22	24	34	28	16	17	20	18	3	11	6	19	1	5	1	3	11	11	20	7	4	7		7	19	14	12	20	Spotted Towhee				
5	12	31	59	72	38	61	42	46	67	65	45	45	53	34	60	20	14	10	5	35	26	16	23	35	22	32	26	48	45	26	59	California Towhee				
					2																													Rufous-crowned Sparrow		
																																			Lark Sparrow	
4	12	13	6	4	5	13	60	8	1	3	2	70	16	19		2				37	9	5	2		17	3	4	9	3	12	7	Savannah Sparrow				
		1	11	5	5	8	13	6	7	3	13	2	4	1	3	7	4			9	4	2	19	4	7	2	12	14	25	3	27	Fox Sparrow				
8	6	76	31	25	27	49	22	47	44	24	23	12	10	11	26	14	24	33		49	57	69	75	22	43	25	31	54	30	46	44	Song Sparrow				
		1	2	2	8	10	5	1	1						2	2				11	6	4	10		1	1	1	4	10	9	5		Lincoln's Sparrow			
																																			Swamp Sparrow	
									1	1	1	1			2	3								2	1					1	1	5		White-throated Sparrow		
123	40	472	172	313	184	243	106	387	165	218	148	462	257	237	286	131	70	66	99	202	243	90	392	152	238	200	223	126	319	171	205	White-crowned Sparrow				
16	37	209	111	99	113	253	148	101	220	35	71	162	239	168	165	49	70	42	28	95	44	111	145	195	143	111	140	215	293	85	145	Golden-crowned Sparrow				
																																			sparrow sp.	
50	50	242	212	143	81	190	92	97	142	130	108	163	334	189	197	12	50	58	25	104	144	147	170	256	163	102	267	154	132	127	190	Dark-eyed (Oregon) Junco				
		1																																Dark-eyed (Slate-colored) Junco		
																																				Western Tanager
	20	317	397	150	19	120	28		150	270	68	420	51	30	7	6	11	57	2	404	78	195	327	216	127	26	41	103	99	33	49	Red-winged Blackbird				
75	50	69	37	53	27	17	45	98	46	68	9	19	31	30	23	73	26	41	11	5	30	37	47	30	50		14	24	14	3	24	Western Meadowlark				
200	50	138	103	255	56	189	123	180	148	278	51	311	150	144	75	258	35	86	52	114	63			17	81	141	60	2	2	50	18	40	Brewer's Blackbird			
												2																							Brown-headed Cowbird	
	100	100	323		112	9												112		35		25	25											blackbird sp.		
	2	9	3	16	1	39	31	18		9	1	3		18	12		2	1		2					2									Purple Finch		
82	55	215	112	188	142	233	122	102	118	78	177	152	79	96	113	111	30	41	86	75	129	130	176	32	162	229	135	181	173	153	178		House Finch			
						5																													Red Crossbill	
15	30	51	263	12	3	178	34	39	5	1	4	20	12	41		8				6				3		12							Pine Siskin			
		5	3	1	44	104		4	10	4	28	3		3						10	6	22	7	19	31	17	20	8	15	49	20	56	Lesser Goldfinch			
		1	5	124	1	2	11	25	4	1		15	57	27	2	6	6			4	11		14	19	4	5	57	4	205	42	45		American Goldfinch			
																																			Evening Grosbeak	
	12	24	15	17	9	6	9	31	17	10	16	26	17	29	13		40	1	4	47	25	8	30	1	5	1	24	20	3	5	3		House Sparrow			
4488	4782	19591	9056	9801	11199	37673	8707	9027	10036	9979	9673	14638	16672	8801	14261	5801	5823	16557	5279	15250	14837	10361	16029	6747	7520	5810	7316	37732	7386	7017	5886		Individuals			
76	92	109	106	118	119	125	108	111	109	108	106	108	108	107	97	89	87	88	82	121	118	116	117	113	111	113	119	113	118	114	123		Species			
		2	2	1	1	1	1	1							1	1																			Additional Forms	
										1	1																									Hybrids
																																				Intergrades
76	102	120	126	133	142	152	154	157	159	160	162	165	169	170	171	171	171	171	172	176	178	180	181	181	182	184	187	187	188	189	189		Cumulative Species			
9	4	9	9	12	8	8	8	5	7	8	7	7	8	6	7	5	7	7	7	10	9	12	13		10	10	9	12	8	7	9		Observers in the field			
																																				Observers at feeders
																																				Minimum number of parties
1	1	2	2	5	4	5	3	3	3	3	3	3	3	3	3	2	3	2	2	5	4	4	3		4	4	4	3	4	3	4		Maximum number of parties			
9	9	18	15	28	30	30	24	24	27	22	23	22.5	20.25	16	18.5	5	14	6	7	30.5	25	25	24		19	32.5	31	25	24.5	25.5	19.5		Party hours on foot			
1	1	7	6	7	6		3	2	1	5	4	5	4.75	8	10.5	12	1	8	5	6.5	7	7.5	3		12	5	9	4.5	8.5	1.5	14.5		Party hours by car			
10	10	25	21	35	36	30	27	26	28	27	27	27.5	25	24	29	17	15	14	12	37	32	32.5	27		31	37.5	40	29.5	33	27	34		Total Party Hours			
3	3	11	7	18	12	20	17	15	11	11	10	12	10	6	4	7	1	3.5	3	17	13	15	15		62	44	60	23	12	13	15		Party miles on foot			
5	10	70	72	50	68		22	4	17	28	43	38	57	49	65.5	65	5	34	55	99	54	57	30		13	11	20	9	55	49	41.8		Party miles by car			
																																			Party miles by golf cart	
8	13	81	79	68	80	20	39	19	28	40	53	50	67	55	69.5	72	6	37.5	58	116	67	72	45		75	55	80	32	67	62	56.8		Total Party Miles			
					1	1	2	2	2	1					0.25					2	3	2.5	1.5		10	3.5	3	2	2	3	2			Nocturnal Hours		
						6	8	5	1						0.5					3	10	7	3		18.5	5	2	5	10	21.5	16.8			Nocturnal Miles		
															730	730	730	800	800	800	630	700	730	700		730	730	730	500	500	400	530		Starting Time		
															1630	1700	1700	1630	1600	1645	1630	1630	1630	1600		1530	1545	1630	1600</							