

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - MILL VALLEY MARSH

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																														13	6	41	55	112	25	49	80	70	49	101	Cackling Goose
2																																					1	1	Canada Goose		
12	8	55	51	41	22	9	52	35	35	31	24	23	22	78	44	35	33	46	18	38	40	31	29	32	17	14	14		15	1	48	Gadwall									
2	9	45	29	37	41	60	54	59	59	53	34	21	41	41	58	28	68	54	24	56	20	29	40	27	62	59	90	26	32	20	20	American Wigeon									
		3								3	2	3			6	2			3	2			7			5			1	2	1	2	5	Mallard							
367	93	285	83	63	47	125	200	218	71	31	30	24	16	15	10	83			4	21	28	42	43	12	30	12	13			4	25	16	44	Cinnamon Teal							
1	1														5					4	2									6	20	Northern Shoveler									
22	42	94	46	121	11	51	88	80	27	27	1	7			8			8			2			12	8	7	2	3			13	21	Northern Pintail								
		1														1																	Ring-necked Duck								
10	23		1		5		2	129	7	12					6			75			36			2	24			341	185	42	200	60	30	Tufted Duck							
4	3		2	27	23	54			6	20	48	1	6	4	4			28					168			100			15			173	408	Greater Scaup							
		54	36		68	80			34	85	8	20																			150	Lesser Scaup									
		1														1																	Surf Scoter								
2	5	39	4	53	53	27	15	30	26	30	49	51	63	24	43	53	47	67	20	86	10	34	82	92	30	27	90	53	15	35	109	White-winged Scoter									
		3	8	3	12	30	1	2	6	8	8	3	6	2	4	8	13	3	8	14	17	9	4	18	6			1	10	1	6	4	11	Bufflehead							
		1														4																	Common Goldeneye								
		1														4																	Hooded Merganser								
1																	1																	Red-breasted Merganser							
230	270	79	43	198	64	22	17	19	7	28	16	45	120	22	57	23	128	57	19	6	4	24	71	35	67	8	30	63	40	2	25	Ruddy Duck									
																																		2	duck sp.						
		8		1		1		7		4																								California Quail							
1																																			Red-throated Loon						
		3		7	3	5	2	2	1			4	2			2			2	4	1	1	2	1			2			2			Common Loon								
3	5	5	3	1	1			6			2			3			1			1							1			1			2	Horned Grebe							
4			2				1	2			1																							Eared Grebe							
14	2	15	9	12	8	13	4	12	8	4	1			7			9	5	4	4	1			3	2			1			1	4	2	2	Western Grebe						
																1			1			1			4	1	1			4	2	3	Clark's Grebe								
																2																			40	Aechmophorus sp.					
		1																1	1							6			2					2	Brown Pelican						
		6	3	13	4 CW		1	23			2	1			1	10	5	4	2					2	1	6	1			4	6	11	5	Double-crested Cormorant							
3	2	4	3	1	3	5	6	13	3	6	2	4	2	2	2	4	5	4	2	1					1	1			3	3	1	2	4	1	Great Blue Heron (Blue form)						
5	5	5	6	5	4	6	10	6	3	5	7	2	2	5	4	5	7	6	2	2	1	3	3	2	5	4	8	4	2	5	4	Great Egret									
15	13	11	27	14	20	8	12	15	6	9	5	5	4	3	5	15	15	10	8	23	6	7	15	13	16	25	31	13	11	20	35	Snowy Egret									
		3																																		Cattle Egret					
		1		1	3	3				1	3	3			4	8	3	2	1	1	1	3	3	7	4	3			2	1	4	1	Black-crowned Night-Heron								
4	4	8	3	4	16	23	7	8	30	25	15	6	6	7	7	3	17	13	5	3	4	7	2	14	2	7	10	7	2	4	8	Turkey Vulture									
		1		1			1																											1	NW	Osprey					
		1																																		White-tailed Kite					
1	1		1				1			1	1	2	1	1	1	1			1	1					1											Northern Harrier					
				1	1	1																														Sharp-shinned Hawk					
																																				Cooper's Hawk					
		1		1		2	1		1		1		1		1		1		1		1		1		1		1		1		1		1		Accipiter sp.						
1	1	1	3		3	2	1	3	4	2	4	2	2	3	1	1	1	3	2	2	1	1	2	2			2	2	1	3	2	2	2	2	1	1	2	Red-shouldered Hawk			
		1		2		1	2	2	1	2	5	1			1	3	2	1			1																	Red-tailed Hawk			
		1		2		1	2	2	1	2	5	1			1	3	2	1			1																	Buteo sp.			
1	1		4		2	1	2	2	1	2	5	1			1	3	2	1			1																	American Kestrel			
				1												1																					Merlin				
				1												1																					Peregrine Falcon				
1	1	1		1												5	2																			Clapper Rail					
																																				Virginia Rail					

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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	4	5	10	7	9	25	12	9	15	24	41	23	16	29	24	10	12	12	7	9	19	5	9	22	19	4	13	2	6	5	14	Western Scrub-Jay			
8	76	10	20	31	6	25	40	18	7	50	19	9	47	15	8	13	20	21	24	52	19	32	39	61	25	93	56	104	70	74	50	American Crow			
				2	2		2		6	15	4	1	2	2	3	1	7	19	7				11	10	5	4	10	3		1	5	Common Raven			
5		10		3	3	34	12	4	4	16	26	21	7	2	14	9		1	5	4	6	3	2	3	12		9		8	10	6	Chestnut-backed Chickadee			
2		2	2	1							4		1								4		2					1			2	Oak Titmouse			
	40			20	15	23	26		22	81	83	16	30	30	41			37	1	15	30	8	27	2	50		56		7	14	Bushtit				
					1						1																	16					Red-breasted Nuthatch		
					3			5			18	6	13	6	6	4		1				1		12				2					Pygmy Nuthatch		
					1	1	1				1				1	1					1	1						2		2			Brown Creeper		
1				3	3	2		1	2		16	1			1				1		1		1		1	1	5	1			3	Bewick's Wren			
					1													1					2											House Wren	
1		1									4			1	2																			Winter Wren	
						1	2	3	5	1	5	1	1	1	2			1	2	2	2	2	1	3	1		4		1		2		Marsh Wren		
			3																															wren sp.	
					4			1	1		10	5			2										3			3						Golden-crowned Kinglet	
6	2	5	5	8	11	9	18	12	12	18	46	25	7	14	55	9	2	7	8	8	8	6	9	4	8	6	14	2	5	3	6	Ruby-crowned Kinglet			
																																			Western Bluebird
	1	1		4	2		2		6	2	20	18		10	7	2		3	4	5	1	1	8		4		6					6	Hermit Thrush		
	36	33	66	4	43	185	90	29	124	159	100	59	59	250	88	269	4	257	4	74	39	50	50	163		8	6	85	41	24		American Robin			
1					2	2	1		1	4	12		2						1		1						1						Varied Thrush		
	2				1	1	1	4	1		14	4			1			1		1	2				2									Wrentit	
	1	3	5	3	2	6	2	2	2	4	4	3	2	9	8	3	1	3	1			5	2	3	2			2	1	1	2		Northern Mockingbird		
1	283	150	172	68	75	431	286	202	265	549	230	170	230	108	100	115	237	118	145	310	41	194	45	200	110	275	110	14	1		80	European Starling			
2	1	2		4	1		1	1				2	1																			52	American Pipit		
			42								39	45	6		12	72					15		25										Cedar Waxwing		
											19	15			16	5			1	1	1	3	1		1	1	1	31					Yellow-rumped Warbler		
		5	2	5	10	2	3	2	9	16	4					72					7	1		2		1		6	2	1	5	22	Yellow-rumped (Audubon's) Warbler		
											1		2			2																		Yellow-rumped (Myrtle) Warbler	
		5			2					4	11	2		1	13	1			1	1	2	1	1		6		11	2	2		1	Townsend's Warbler			
											1																							Hermit Warbler	
							1				3	2		1	1	1																		Common Yellowthroat	
2				2	2	2	3	4	14	2	15	4	1	1	5	2			1	2	1		2	4			1	1	1	2	3		Spotted Towhee		
1	1	5	4	8	6	13	4	7	12	15	22	13	11	22	14	6	3	7	4	7	7	10	9	8	6	2	13	1	7	6	7		California Towhee		
5	7	10	20	4	5	12	7	12	11	5	5	6	6	3	2	6				4			1	1								2	Savannah Sparrow		
8					7	3		2	6	1	12	5	1	6	2			1		1	7		1	2								6	Fox Sparrow		
2	2	2	3	1	3	5	1	15	10	7	16	16	5	16	20	1	5	5	7	6	4	2	46			1	5	3	1	10	12		Song Sparrow		
											1																								Lincoln's Sparrow
											1																								Swamp Sparrow
			1									3	1																						White-throated Sparrow
46	42	45	116	62	84	167	133	134	116	99	52	72	50	71	80	72	62	80	68	130	62	50	46	45	92	90	150	56	66	80	82		White-crowned Sparrow		
9	19	110	13	17	26	30	77	16	16	87	57	16	34	43	12	19	8	26	25	74	4		19	12	37	20	45	22	25	55	12		Golden-crowned Sparrow		
25	6	3	24		5	31	1	6	5	4	33	44	9	31	16	29	1	38	1	19	7	6	19	38	8		3	4	9	2	7		Dark-eyed (Oregon) Junco		
					70		3			14	1	12		3	400		6		28	1	2	48			76		30						Red-winged Blackbird		
42	32	51	27	19	3	3	8	92	8	20	52	1	9	13	34	27	6	29	5	10	24	6	15		60	26					2	12	Tricolored Blackbird		
1	15	89	274	53	56	406	35	95	25	12	80	19	53	15	35	36	68		100	296			6			60		60	1	72		18	Western Meadowlark		
							3																												Brewer's Blackbird
											6									5															Brown-headed Cowbird
	1											6									5														Purple Finch
1	4	57	22	13	10	20	20	38	53	58	43	68	43	53	9	10	10	48	6	31	17		41	9	81	26	53	2	9	20	13		House Finch		
					1	28		2	7		7	30	4	46		6		68						1											Pine Siskin
					9						19									1		2			20	9				1		3		Lesser Goldfinch	
											6		14		2							6	2		22	1	10		5		9	1		American Goldfinch	
	1				5	5	3	5	20	49	6	6	11	12	6	2		24	12			2	2	12			9						1	House Sparrow	
6355	3942	4405	2574	3925	2133	3088	3095	3508	3844	5870	3820	2559	2264	2786	1916	3888	3763	2856	1371	2186	1216	1553	2175	2400	2329	2704	2598	1588	1922	1756	3052		Individuals		

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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														
72	68	74	59	73	84	74	77	84	81	83	100	86	76	85	83	76	59	63	68	71	79	69	78	68	67	59	77	64	65	62	75	Species														
											1																					Additional Forms														
											1									1					1							Hybrids														
71	86	95	97	100	111	115	118	123	127	129	134	135	135	137	138	138	140	140	140	140	141	141	141	141	141	141	144	144	145	146	147	Cumulative Species														
6	5	3	5	5	3	8	4	6	4	4	7	4	3	5	3	4	5	5	8	3	5	4	4		4	3	3	4	5	5	7	Observers in the field														
																																	Observers at feeders													
																																	Minimum number of parties													
1	1	1	1	2	1	2	2	2	1	2	2	2	1	2	1	2	1	1	1	1	1	1	1		1	1	1	1	1	1	1	Maximum number of parties														
7	7	9	8	12	8	12	8	9	7	8	10	9	7	7	8	9	7	9	9	8.5	8	7	8		8	5	7	7	6.75	6	7.5	Party hours on foot														
	1		1					1	2	4	0.75	0.75	1	1	1	1	1	1	1	0.5	1	0.5	1		1	1.5	1	1	0.75	1	0.5	Party hours by car														
7	8	9	9	12	8	12	8	10	9	12	10.8	9.75	8	8	9	10	8	10	10	9	9	7.5	9		9	6.5	8	8	7.5	7	8	Total Party Hours														
4	3	5	6	9	4	9	7	7	5	6	7	4	4	6	7	6	7	7	7	6	6	5	3		5	10	5	5	5	6.5	7	Party miles on foot														
	10		5			3		1	8	19	16	17	13	13	13	15	9	10	11	12	11	12	7		1	3	3	11	6	6	10	Party miles by car														
4	13	5	11	9	4	12	7	8	13	25	23	21	17	19	20	21	16	17	18	18	17	17	10		6	13	8	16	11	12.5	17	Total Party Miles														
																																	Feeder Hours													
																																	Nocturnal Hours													
																																	Nocturnal Miles													
																																	Starting Time													
																																	Ending Time													
CW = species seen during count week but not count day													700	730	715	715	715	715	715	715	715	715	730																							
													1630	1630	1615	1600	1645	1630	1645	1620	1630	1630																								