

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - MUIR WOODS

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																																	Mallard			
																																				Northern Pintail		
																																				California Quail		
																																				Wild Turkey		
																																				Double-crested Cormorant		
																																				Great Blue Heron		
																																				Great Egret		
																																				Turkey Vulture		
																																				White-tailed Kite		
																																				Northern Harrier		
																																				Sharp-shinned Hawk		
																																				Cooper's Hawk		
																																				Accipiter sp.		
																																				Red-shouldered Hawk		
																																				Red-tailed Hawk		
																																				American Kestrel		
																																					Merlin	
																																					Peregrine Falcon	
																																					Killdeer	
																																					Wilson's Snipe	
																																					Ring-billed Gull	
																																					Western Gull	
																																					California Gull	
																																					gull sp.	
																																					Rock Pigeon	
																																					Band-tailed Pigeon	
																																					Mourning Dove	
																																					Barn Owl	
																																						Western Screech-Owl
																																					Great Horned Owl	
																																					Northern Pygmy-Owl	
																																						Spotted Owl
																																						Barred Owl
																																						Northern Saw-whet Owl
																																						Vaux's Swift
																																						White-throated Swift
																																						Anna's Hummingbird
																																						Belted Kingfisher
																																						Acorn Woodpecker
																																						Yellow-bellied Sapsucker
																																						Red-breasted Sapsucker
																																						Nuttall's Woodpecker
																																						Downy Woodpecker
																																						Hairy Woodpecker
																																						Northern Flicker
																																						Northern (Red-shafted) Flicker
																																						Northern (Yellow-shafted) Flicker
																																						Pileated Woodpecker
																																						Black Phoebe
																																						Say's Phoebe
																																						Northern Shrike
																																						Hutton's Vireo

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - MUIR WOODS

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					
17	25	12	28	6	13	32	3	1	47	27	58	45	45	50	10	69	17	41	41	16	6	15	9	4	13	5	4	34	25	26	14	Steller's Jay					
22	40	22	20	14	4	21	2	1	42	17	85	42	23	65	10	36	19	32	54	19	8	9	12	3	12	6	11	34	12	25	11	Western Scrub-Jay					
5	7	18		12		15			33	4	70	3	2	25	21	72	15	12	7	29	2	14	12	5	24	6	25	5	9	20	40	American Crow					
10	3	3	5	8	12	16	4	5	15	3	12	18	12	7	7	11	29	22	13	13	13	6	4	12	15	9	25	10	7	11	3	Common Raven					
102	31	52	48	66	41	54	1	6	16	33	38	12	80	125	30	62	31	40	114	2	9	19	23	18	24	17	11	10	15	9	25	Chestnut-backed Chickadee					
															1											1							Oak Titmouse				
	136	22	7	19	5	33	20		35	24	25	25	52	45	42	72	23	89	36	30	2	20	10		37	16	25	10	30		38	Bushtit					
			1	7	3	15						1			5			2	2			19		2	1	2		CW	1	1	10	Red-breasted Nuthatch					
38	46	28	10	33	39	22						22		10	9	3	5	12	22		10	6	10	12		30	2	30		30	29	Pygmy Nuthatch					
11	7	12	5	31	3	17	10	4		5	10	2	2	68	2	7		4	2			1	1	2	1	10			1	3	1	Brown Creeper					
5	6	3	11	4	3	7			1	2	5		1	3	4	3	8	9	8	5	4	5	3	1	12	2	5	4	3		6	Bewick's Wren					
																				1														House Wren			
68	8	13	31	17	18	28	18	7	1	2	4	25	8	42		6	7	28	10	2	1	3	2		4	5	4	2	1	2	4	Winter Wren					
150	37	29	122	14	107	46	44	78	9	34	9	9	12	10	13	159	83	70	17	12	12	15	9	5		35	5		6			Golden-crowned Kinglet					
181	81	138	86	62	52	44	6	36	40	74	95	35	9	24	34	41	78	41	60	9	44	18	14	4	25	30	48	59	59	9	20	Ruby-crowned Kinglet					
							1	3											CW			5			4						5		Western Bluebird				
11	2	7	16	14	2	10	3	1	12	10	2	28	24	58	6	16	3	15	10	8	3	5	3		8		1	17	3	2	4	Hermit Thrush					
	35	12	23	2	31	303	12	14	86	16	70	65	45	125	41	121	34	121	106	63	71	24	123	55	188	11	31	153	72	427	114	American Robin					
20	27	3	38	26	43	132	33	5	82	21	340	26	16	710	9	57	3	89	9	6	27	6	10	30	2	23	1	38	59	27	1	Varied Thrush					
36	6	6	8	3	13	13	1	3	4	9	1	5		6	3	15	10	20	10	6	4	2	3		11		6	16	10	5	10	Wrentit					
	16	2												12																				European Starling			
																																			American Pipit		
							71	2																											Cedar Waxwing		
																																				Orange-crowned Warbler	
																																				Yellow-rumped Warbler	
1		6	1		1	6					2	2	12	18			1		2		2				2									Yellow-rumped (Audubon's) Warbler			
																																				Yellow-rumped (Myrtle) Warbler	
																																				Black-throated Gray Warbler	
19	17	13		24	6	4	3	3	2		31	2		25	2		12	10	56	4	3	10	3	2	2	16	3	5		3	2		Townsend's Warbler				
				1							2																									Hermit Warbler	
9	2	12	6	9	3	9	1	3	7	8	56	10	2	34	1	19	7	14	20	18	6	5	4		15	2	4	6	9	3	17	Spotted Towhee					
8	23	10	15	10	7	19	5	3	20	10	35	35	40	50	15	23	33	27	19	13	11	7	9	8	26	6	6	9	17	8	13	California Towhee					
															1		1		2				1		2										Rufous-crowned Sparrow		
																																				Lark Sparrow	
																																				Savannah Sparrow	
12	9	21	2	7	2	9	2	1	3	4	29	12		8	5	35	3	39	21	35	8	3	12	7	38	3	23	7	10	16	6		Fox Sparrow				
15	34	14	13	23	3	14	2	3	11	5	11	18	12	10	6	47	36	61	28	68	20	29	12	8	48	3	8	9	41	16	18		Song Sparrow				
					1								1	1																						Lincoln's Sparrow	
																																				Swamp Sparrow	
																																					White-throated Sparrow
2	2	26		19		10		16	10		5	165	190	18	5	37	9	51	3	14	5	5		52	5	2	1	15	6	4	3		White-crowned Sparrow				
8	2	9	21	3	7	9	3	33	32	24	25	215	250	28	15	46	48	89	48	131	23	44	47	33	171	36	42	43	102	49	16		Golden-crowned Sparrow				
70	193	68	23	121	44	156	1	13	79	51	68	15	90	36	55	275	146	196	59	157	70	79	115	160	279	45	112	217	200	133	124		Dark-eyed (Oregon) Junco				
																																					Red-winged Blackbird
11	51	21	32			2																														Western Meadowlark	
	9	7																																		Brewer's Blackbird	
																																					Brown-headed Cowbird
																																					Purple Finch
	5	5																																		House Finch	
																																					Red Crossbill
																																					Pine Siskin
																																					Lesser Goldfinch

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - MUIR WOODS

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																	5										3			American Goldfinch																
2																	5										3			House Sparrow																
920	1205	911	648	619	503	1494	203	278	937	443	1258	1259	1176	2023	419	1551	797	1459	1048	803	445	473	509	509	1095	521	537	855	798	1017	619	Individuals														
38	45	49	42	39	35	48	33	35	37	32	46	57	47	58	40	46	44	48	47	47	37	52	37	35	45	43	46	48	44	47	45	Species														
38	51	58	63	64	65	68	71	72	73	73	75	80	84	87	88	90	90	90	90	92	93	93	93	93	93	93	95	97	98	99	99	Additional Forms														
4	5	4	7	4	3	2			3	1	1	4	4	8	5	4	7	4	8	5	2	2	4		2	8	3	5	5	2	5	Cumulative Species														
1	1	1	2	1	1	1			1	1	1	1	1	3	1	2	4	2	2	2	1	1	1		1	2	1	2	1	1	1	Observers in the field														
11	11	10	8	10	9	9	4	5	9	7	9	8	5	7	9	14.5	20	16	11	7.5	9.5	7.5	7		10	4.5	7	7.5	8	9	10	Minimum number of parties														
1	1	1	1	1		1			1	1	1	2	5	0.5	2	1.5		2	3.5	0.5	0.5	1	1		2.5	1	1	1	1	1	1	Maximum number of parties														
12	12	11	9	11	9	10	4	5	10	8	10	10	10	7.5	11	16	20	18	14.5	8	10	10	8		12.5	5.5	8	8.5	9	10	11	Party hours on foot														
16	11	4	12	18	16	12	5	3	12	9	12	12	5.5	10	6	14.8	15	10	7	10	10	7	4		8	30	10	6	4	6	6	Party hours by car														
5	15	3	16	6		6	3	11	9	8	13	22	47	15	8	18.5		18	20	1	15	20			7	5	5	10	3	8	30	Party hours by bicycle														
21	26	7	28	24	16	18	8	14	21	17	25	34	52.5	25	14	33.3	15	28	27	11	25	32	4		15	35	15	16	7	14	36	Total Party Hours														
4	2	2	2	2	2	2	1	1	3		2.5	4	2	2.5	3.5	2.5	3	3.5	3.5	2		3	1.5		3	3		3	2.5	3.75	3.5	Party miles on foot														
							1	7	4		10	6.25	6	9	8	6.25	6	10	15	1		1	7		1	10		2	2	5	1	Party miles by car														
																																	Party miles by bicycle													
																																	Total Party Miles													
																																	Nocturnal Hours													
																																	Nocturnal Miles													
																																	Starting Time													
																																	Ending Time													
CW = species seen during count week but not count day														430	430	445	430	330	300	400	700	400	545																							
														1630	1800	1700	1630	1730	1730	1730	1730	1730	1700																							