

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - RICHARDSON BAY

1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2007	2008	2009	SPECIES
													2			Canada Goose
															27	NW
										45						American Wigeon
										32			2			Northern Shoveler
										1						Northern Pintail
														4		American Green-winged Teal
															2	NW
27							291		2		9		550		339	Ring-necked Duck
						900	241		60	150	53			70	15	Greater Scaup
67	4	11	26	17		26	47	28	85	41	318	493	32	500	3	94
						1			1		25					30
		1				1					1					White-winged Scoter
																Black Scoter
										550						scoter sp.
		2	2			625	240		88	311	965	21	426	35	319	Bufflehead
						64	56	2	1	5	94	7	34		11	Common Goldeneye
																Barrow's Goldeneye
								4								Hooded Merganser
										25						Common Merganser
	2	2	6	2	1	5	9		18		2	5				Red-breasted Merganser
						2	32						42		8	Ruddy Duck
	11	3	29	12	6		3	12		21	8	9				Red-throated Loon
2		1	2	3	2	4	2	2		9	1				1	Pacific Loon
4	3	5	3	2	3	7	14	2	6	8	9	3	6	2	4	Common Loon
2	2		1	4	6		4			38	3	15				loon sp.
															1	NW
	2	7	1	7	3	15			38	44	5	3	2		1	Pied-billed Grebe
					1											Horned Grebe
																Red-necked Grebe
					6	2	1				3	7	8	13		Eared Grebe
282	131	1180	680	302	396	187	283	243	526	251	1849	144	341	70	508	Western Grebe
2	6	195	11	8	10	14	23	12	9	14	84	19	675	10	5	Clark's Grebe
	10	1000	34		95	170	7	300	89	352	168	123	4844	529		Aechmophorus sp.
4	1		1	14		1	13	23	4	5		2	17	20	42	Brown Pelican
13	1		2			2	72	55	3	38	1	2	1		3	Brandt's Cormorant
56	4	1	273	31	76	33	103	1300	36	22	110	123	2445	1570	42	Double-crested Cormorant
4	1	1			2	2	6	3	1	1			153	50	3	Pelagic Cormorant
								1000		3	5					cormorant sp.
			2				1						4	1	3	Great Blue Heron
									1			2				Snowy Egret
										1					1	Black-crowned Night-Heron
			1							2						Turkey Vulture
			1									1				Red-tailed Hawk
									1	55		5	1			American Coot
										2						Black Oystercatcher
	1		1				1	1				2			2	Spotted Sandpiper

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1												1			2	Willet	
3	1									6		12				Black Turnstone	
6							13		6	3						Sanderling	
							1									Western Sandpiper	
						6	8									Least Sandpiper	
														25		Dunlin	
	11	8	5	1	4				5							Bonaparte's Gull	
							7		1	6		1				Heermann's Gull	
32	21	11	7	8	6	6	28	35	5	55		10				Mew Gull	
1	1	1	2	7			4	15	1	16	2	25		1	9	Ring-billed Gull	
210	91	45	90	108	77	92	400	157	89	145	214	131	257	153	14	Western Gull	
4	3	10	1	57	8	4	63	58	2	18	87			2	13	California Gull	
3	1		1	2			11	1	4	6	1	4	1			Herring Gull	
2	2	3	1	2			4	4	1							Thayer's Gull	
22	65	33	43	35	34	1	203	168	42	27	3	28	15			Glaucous-winged Gull	
2			1									1	7			Glaucous-winged Gull X Western Gull	
200	100			150	55	250	470	300	35	61	342	150				gull sp.	
3	1		2	1				5	1	21		10				Forster's Tern	
										35						Common Murre	
										17						Marbled Murrelet	
										6						murrelet sp.	
											5	9				Rock Pigeon	
									1				1			Belted Kingfisher	
													2			Common Raven	
													5			Great Blue Heron	
														1	NW	White-crowned Sparrow	
952	476	2520	1229	773	785	2715	2371	3731	9558	62725	4544	914	10363	2530	1502	Individuals	
21	22	19	25	19	15	23	28	22	28	33	23	28	26	15	27	Species	
1			1								1	1				Hybrids	
21	26	28	31	31	32	37	39	40	43	51	53	53	58	58	62	Cumulative Species	
4						2	2	1	3	2	3	3	2	3	2	Observers in the field	
															1	1	Minimum number of parties
1						1	1	1	1	1	1	1	1	2	1	Maximum number of parties	
								2					0.25	3		Party hours on foot	
								1.5								Party hours by car	
2	1.5	3	2	1	2	2.5	2.5		2	5.5	3	3.5	4.75	2.5	6	Party hours by boat	
2	1.5	3	2	1	2	2.5	2.5	3.5	2	5.5	3	3.5	5	5.5	6	Total Party Hours	
													0.5			Party miles on foot	
								19								Party miles by car	
16	10	5	13	7	10	6	6		18	37	42	28	21	4	40	Party miles by boat	
16	10	5	13	7	10	6	6	19	18	37	42	28	21.5	4	40	Total Party Miles	
					1200	830	900	1300	1430	1000	1300	1300	900	930	830	Starting Time	
					1400	1100	1130	1545	1630	1300	1600	1530	1400	1600	1430	Ending Time	