

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - FORT CRONKHITE

| 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 | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------------------|----------------------|--------------------|----------------------|-------------------------------------|------------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | immature(s) | | | |
| | | | 2 | 5 | 6 | 4 | 5 | 5 | 1 | 5 | 4 | 7 | 8 | 4 | 4 | 4 | 2 | 12 | 2 | | | 1 | 4 | 4 | 3 | | 5 | 4 | 2 | 4 | 2 | 2 | 2 | Northern Harrier | | | | |
| 3 | | | | 1 | 1 | | 2 | 1 | | 1 | 5 | 5 | 2 | | 2 | 1 | | 3 | 1 | 3 | 2 | 1 | | | | 2 | 2 | 3 | | 3 | 1 | | Sharp-shinned Hawk | | | | | |
| 3 | 1 | 1 | | 2 | | | 1 | 3 | | 3 | 1 | 1 | | | 1 | 1 | | 1 | | 2 | 2 | | 1 | | | | | | 2 | | 1 | 1 | Cooper's Hawk | | | | | |
| | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | Accipiter sp. | | | | |
| | | | | 1 | 1 | 2 | 1 | 2 | | 1 | | | | | | 2 | 1 | 2 | 2 | | 1 | 14 | | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 2 | | Red-shouldered Hawk | | | | | |
| 13 | 8 | 7 | 4 | 17 | 18 | 12 | 6 | 11 | 8 | 15 | 11 | 18 | 13 | 15 | 10 | 20 | 2 | 29 | 8 | 14 | 24 | | 7 | 4 | 9 | 9 | 17 | 11 | 9 | 10 | 9 | | Red-tailed Hawk | | | | | |
| | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Rough-legged Hawk | | | |
| 10 | 8 | 12 | 3 | 11 | 13 | 14 | 16 | 14 | | 6 | 11 | 4 | 10 | 9 | 12 | 6 | 3 | 5 | 4 | 6 | 6 | 9 | 8 | 3 | 15 | 7 | 14 | 9 | 12 | 4 | 8 | | American Kestrel | | | | | |
| | | | | | | | | | 1 | | | | | | | | | 1 | 2 | 1 | 1 | | | | 1 | | | 1 | | | | | | Merlin | | | | |
| 1 | | | | 1 | | | | | | 1 | 1 | 2 | | | | | | 2 | 2 | 2 | | | | | | | 1 | 3 | 1 | | 1 | | | Peregrine Falcon | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Prairie Falcon | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 1 | 1 | | 1 | | 1 | | | 1 | 1 | | | | 1 | | 1 | | | | 1 | 1 | | | | | 1 | 2 | 2 | 2 | 1 | 1 | 2 | Virginia Rail | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | Sora | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Common Moorhen | | |
| 152 | 176 | 66 | 67 | 37 | 28 | 391 | 170 | 54 | 32 | 65 | 56 | 58 | 28 | 35 | 40 | 35 | 43 | 120 | 40 | 107 | 172 | 65 | 9 | 3 | 8 | 5 | 25 | 27 | 13 | 12 | 4 | | American Coot | | | | | |
| 2 | | | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Black-bellied Plover | | |
| 25 | | 2 | 3 | 4 | 7 | 10 | 2 | 3 | 4 | 4 | 2 | 10 | 2 | | | | | | | | | | | | | | | | | | | | | | Killdeer | | | |
| | | | | 3 | 2 | 1 | | | 4 | 1 | 2 | | | | 2 | | | 8 | | 6 | 9 | 3 | 2 | | 6 | 11 | 3 | 4 | 2 | | | | | Black Oystercatcher | | | | |
| | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Wandering Tattler | | |
| | | | 1 | | | 1 | | 1 | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | Greater Yellowlegs | | |
| 8 | 6 | 10 | 6 | 2 | 2 | 2 | 3 | 3 | | 10 | 3 | | | | | 1 | 1 | | | | | | | | | | 1 | 10 | 6 | 1 | | | | Willet | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Whimbrel | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Marbled Godwit | | |
| | | | 2 | | 1 | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | Ruddy Turnstone | | |
| 5 | | 23 | 2 | 3 | 2 | | | | | | | | | | | | | | 2 | 6 | 1 | | | | 10 | 3 | 2 | | | | | | | | Black Turnstone | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Surfbird | |
| 50 | 3 | 4 | 28 | 2 | 13 | 14 | 4 | 18 | 24 | 6 | 14 | 70 | | 12 | | 20 | 8 | | | | 7 | 6 | 3 | | 27 | | 1 | 2 | | | 1 | | | Sanderling | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Least Sandpiper | | |
| 1 | | | 4 | | 5 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | Dunlin | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Short-billed Dowitcher | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Long-billed Dowitcher | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Wilson's Snipe | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Red Phalarope | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Bonaparte's Gull | |
| | 1 | 2 | 9 | 5 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Heermann's Gull | |
| 1 | | 1 | 1 | 5 | | 3 | | | 2 | 4 | 1 | 2 | 2 | | | 2 | 6 | 7 | 5 | 30 | 6 | 20 | 8 | 9 | 27 | 3 | 26 | 2 | 3 | | | | | Mew Gull | | | | |
| 7 | 20 | 15 | 42 | 23 | 14 | 66 | 19 | 50 | 68 | 11 | 16 | 21 | 12 | 49 | 17 | 26 | 26 | 9 | 20 | 40 | 9 | 10 | 2 | 2 | 6 | 27 | 1 | 5 | 1 | 1 | 1 | | | Ring-billed Gull | | | | |
| 17 | 83 | 311 | 135 | 66 | 165 | 36 | 65 | 88 | 68 | 79 | 59 | 26 | 60 | 100 | 125 | 117 | 35 | 30 | 15 | 62 | 50 | 89 | 116 | 65 | 86 | 426 | 102 | 37 | 29 | 36 | 18 | | | Western Gull | | | | |
| 12 | | 39 | 8 | 4 | 3 | 3 | 5 | 4 | 4 | | 3 | 7 | 2 | 3 | | | 6 | 4 | 4 | 16 | 10 | 43 | 74 | 25 | 14 | 72 | 106 | 4 | 20 | 8 | 7 | | | California Gull | | | | |
| 3 | | 13 | 6 | | 2 | 4 | | | 2 | 1 | | | | | | | 4 | 2 | 5 | 20 | 4 | | 4 | 4 | 5 | 50 | 17 | 1 | 6 | | | | | Herring Gull | | | | |
| | | | | | | 1 | | | | 2 | | 1 | | | | | | | 1 | 14 | | 6 | 4 | 2 | 3 | 5 | 4 | 1 | 2 | 1 | | | | | Thayer's Gull | | | |
| 26 | 4 | 15 | 56 | 13 | 55 | 61 | 12 | 71 | 46 | 42 | 34 | 11 | 21 | 30 | | | 3 | 1 | 14 | 49 | 24 | 118 | 63 | 27 | 137 | 43 | 68 | 32 | 15 | 26 | 18 | | | Glaucous-winged Gull | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Glaucous-winged Gull X Western Gull | |
| 121 | 74 | 171 | | 20 | | 140 | 220 | 200 | | 110 | 50 | 20 | | | | 125 | 105 | 30 | | | | | | | | | | | | | | | | | | gull sp. | | |
| | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Forster's Tern | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | tern sp. (large) | |
| 215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Common Murre | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Pigeon Guillemot | |
| | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Marbled Murrelet | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ancient Murrelet |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | murrelet sp. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Rock Pigeon |
| 1 | | | | 9 | 6 | | | 21 | | | | | | | | | | | 20 | | 78 | | 60 | | | 9 | | | 30 | | | | | | Band-tailed Pigeon | | | |
| 6 | 1 | | 4 | | 3 | | | | | | 1 | 1 | | 12 | 2 | 33 | 6 | | 1 | 13 | 2 | 14 | 59 | 34 | 3 | 3 | 26 | 1 | 4 | | | | | Mourning Dove | | | | |

MARIN COUNTY (SOUTHERN) CHRISTMAS BIRD COUNT - FORT CRONKHITE

| 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 | | |
|---|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|---------------------------|------------------------|---------------------------|
| 36 | 24 | 28 | 19 | 15 | 16 | 18 | 17 | 30 | 19 | 21 | 25 | 10 | 24 | 21 | 14 | 28 | 6 | 47 | 40 | 28 | 11 | 25 | 13 | 5 | 24 | 36 | 9 | 16 | 33 | 16 | 12 | California Towhee | | |
| | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 | | 1 | | | | Rufous-crowned Sparrow | | |
| 1 | | | | 1 | | 2 | | 4 | | | | | | | | | | | | | | | | | | 2 | | | | 3 | 1 | Savannah Sparrow | | |
| 20 | 8 | 3 | 4 | | 13 | 29 | 24 | 32 | 5 | 24 | 21 | 10 | 6 | 5 | 10 | 3 | 2 | 27 | 16 | 105 | 24 | 44 | 15 | 6 | 42 | 33 | 35 | 16 | 14 | 9 | 5 | Fox Sparrow | | |
| 40 | 6 | 24 | 5 | 27 | 37 | 57 | 18 | 59 | 26 | 32 | 35 | 16 | 8 | 14 | 14 | 17 | 11 | 21 | 22 | 95 | 63 | 102 | 9 | 5 | 66 | 19 | 31 | 71 | 44 | 14 | 14 | Song Sparrow | | |
| | | | | | 5 | 1 | 2 | 1 | | | | | | | | | | 1 | 1 | 16 | | | 1 | | | | 2 | 1 | 3 | | | Lincoln's Sparrow | | |
| | | | | | 1 | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | White-throated Sparrow | |
| 146 | 106 | 73 | 49 | 72 | 89 | 96 | 219 | 98 | 94 | 50 | 61 | 83 | 258 | 60 | 79 | 145 | 47 | 132 | 48 | 93 | 85 | 93 | 90 | 38 | 60 | 114 | 172 | 218 | 120 | 172 | 70 | White-crowned Sparrow | | |
| 168 | 17 | 6 | 12 | 7 | 24 | 28 | 30 | 89 | 53 | 26 | 52 | 93 | 31 | 114 | 96 | 66 | 18 | 150 | 41 | 117 | 81 | 52 | 51 | 24 | 129 | 88 | 97 | 63 | 133 | 56 | 38 | Golden-crowned Sparrow | | |
| 63 | 33 | 29 | 23 | 8 | 31 | 11 | 11 | 26 | 32 | 46 | 21 | 14 | 23 | 22 | 12 | 7 | 9 | 24 | 22 | 33 | 7 | 12 | 11 | 6 | 27 | 31 | 27 | 17 | 28 | 6 | 7 | Dark-eyed (Oregon) Junco | | |
| 492 | 51 | 221 | 142 | 42 | 22 | 132 | 4 | 67 | 19 | 61 | 38 | 30 | 30 | 34 | 26 | 17 | 108 | 120 | 23 | 13 | 12 | 21 | 25 | 29 | 19 | | 3 | 12 | 35 | 29 | 17 | Red-winged Blackbird | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | Tricolored Blackbird |
| 13 | | 11 | 4 | 1 | 3 | 14 | 4 | 15 | 3 | | 21 | 17 | 43 | 12 | 12 | 26 | | 21 | 13 | 12 | 20 | 41 | 10 | 3 | 12 | 14 | 36 | 20 | | 25 | Western Meadowlark | | | |
| 117 | 69 | 44 | 37 | 112 | 153 | 94 | 31 | 48 | 52 | 105 | 135 | 60 | 95 | 40 | 90 | 84 | 48 | 125 | 58 | 37 | 39 | 57 | 15 | 23 | 28 | 9 | 4 | 14 | 40 | 41 | 13 | Brewer's Blackbird | | |
| | 60 | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | | | blackbird sp. | |
| | | 1 | 2 | 3 | 1 | 8 | 1 | | 3 | 4 | 4 | | | | 3 | 4 | | 1 | 9 | 20 | 8 | 7 | 3 | | 10 | 9 | 2 | 2 | 39 | 42 | 1 | Purple Finch | | |
| 17 | 1 | | 2 | 16 | 26 | 42 | 7 | 31 | 27 | 10 | 22 | 3 | 17 | 12 | 36 | 20 | 30 | 4 | 9 | 20 | | 15 | 5 | 3 | 26 | 13 | 78 | 19 | 16 | 21 | 13 | House Finch | | |
| | | | | | 20 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | Red Crossbill |
| 2 | 1 | | | | 20 | 45 | | | 3 | 23 | 7 | 20 | | 10 | | | | | | 1 | | | | | | | 1 | | | | | | Pine Siskin | |
| | | | | | 7 | 4 | 2 | 1 | 6 | 2 | | | | | | | 1 | | | | | | 2 | | | | | | | | | | | Lesser Goldfinch |
| 16 | | | 2 | | 3 | 8 | | 2 | 3 | 4 | 10 | | 2 | 2 | | | | | | | | | | | | 1 | | | | | 1 | | American Goldfinch | |
| 5593 | 2956 | 2964 | 2472 | 1703 | 1672 | 2391 | 1636 | 1974 | 1096 | 1790 | 1495 | 1345 | 1207 | 1346 | 1601 | 1191 | 930 | 2570 | 4723 | 3179 | 2378 | 5141 | 2348 | 4467 | 3043 | 3497 | 2854 | 2527 | 3002 | 2694 | 2495 | Individuals | | |
| 99 | 59 | 79 | 84 | 78 | 98 | 91 | 86 | 80 | 84 | 83 | 92 | 88 | 70 | 78 | 69 | 68 | 62 | 90 | 100 | 96 | 87 | 85 | 74 | 73 | 86 | 87 | 88 | 86 | 76 | 79 | 76 | Species | | |
| 2 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | | 1 | 2 | 2 | 1 | 1 | | | | | | | | | | | Additional Forms | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | | Hybrids | |
| 99 | 105 | 111 | 117 | 119 | 127 | 135 | 139 | 140 | 144 | 145 | 146 | 149 | 150 | 150 | 150 | 150 | 150 | 153 | 157 | 160 | 163 | 163 | 164 | 165 | 167 | 167 | 167 | 169 | 169 | 169 | 170 | Cumulative Species | | |
| 8 | 4 | 6 | 3 | 7 | 5 | 6 | 7 | 7 | 4 | 8 | 8-Jul | #### | 6 | 8 | 8 | 6 | 8 | 14 | 9 | 8 | 5 | 5 | 3 | | 4 | 6 | 3 | 6 | 5 | 3 | 5 | Observers in the field | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Minimum number of parties |
| 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 4 | 3 | 5 | 2 | 2 | 1 | | 2 | 3 | 3 | 2 | 2 | 1 | 2 | Maximum number of parties | | |
| 7 | 6 | 10 | 8 | 14 | 14 | 15 | 15 | 17 | 16 | 25 | 23 | 20 | 12.5 | 13 | 7.5 | 14.5 | 6 | 28 | 24 | 32 | 16.5 | 17.5 | 7.5 | | 14 | 20 | 21 | 20 | 18 | 8.5 | 11 | Party hours on foot | | |
| 1 | 4 | 2 | 2 | 3 | 4 | 5 | 3 | 9 | 1 | 3 | 4.5 | 4 | 5 | 4 | 0.5 | 3 | | | 0.5 | 3 | 1 | 1.25 | 2.25 | | 2.5 | 3 | 2 | 1 | 1 | 0.75 | 1 | Party hours by car | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Party hours by bicycle |
| 8 | 10 | 12 | 10 | 17 | 18 | 20 | 18 | 26 | 17 | 28 | 27.5 | 24 | 17.5 | 17 | 8 | 17.5 | 6 | 28 | 24.5 | 35 | 17.5 | 18.8 | 9.75 | | 16.5 | 25 | 23 | 22 | 19 | 9.25 | 12 | Total Party Hours | | |
| 3 | 6 | | 5 | 4 | 5 | 6 | 7 | 13 | 8 | 10 | 19 | 8 | 6 | 9 | 5 | 6 | 4 | 20 | 15 | 15 | 13.8 | 9.75 | 11 | | 25 | 21 | 10 | 15 | 12 | 8 | 10 | Party miles on foot | | |
| 15 | 25 | | 20 | 27 | 23 | 16 | 16 | 5 | 5 | 30 | 23.5 | 6 | 22 | 4 | 0.25 | 7 | | | 4 | 6 | 14 | 19 | 10 | | 13 | 5 | 12 | 5 | 5 | 4 | 2 | Party miles by car | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3 | | | | | Party miles by bicycle |
| 18 | 31 | | 25 | 31 | 28 | 22 | 23 | 18 | 13 | 40 | 42.5 | 14 | 28 | 13 | 5.25 | 13 | 4 | 20 | 19 | 21 | 27.8 | 28.8 | 21 | | 38 | 31 | 22 | 23 | 17 | 12 | 12 | Total Party Miles | | |
| | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | Nocturnal Hours |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Nocturnal Miles |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Starting Time |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ending Time |
| CW = species seen during count week but not count day | | | | | | | | | | | | | | 700 | 800 | 645 | 745 | 800 | 800 | 800 | 745 | 730 | 745 | | 700 | 730 | 730 | 715 | 715 | 715 | 630 | | | |
| | | | | | | | | | | | | | | 1700 | 1700 | 1615 | 1345 | 1530 | 1630 | 1500 | 1630 | 1700 | 1700 | | 1630 | 1630 | 1640 | 1730 | 1630 | 1630 | 1700 | | | |