

From: [B Boekelheide](#)
To: [BrownScott, Jennifer](#); [Sollmann, Lorenz](#); [Thomas, Sue](#)
Subject: [EXTERNAL] Dungeness Spit Christmas Bird Count data
Date: Monday, December 3, 2018 9:16:23 PM
Attachments: [DungSpitCBC.pdf](#)
[ATT00001.txt](#)
Importance: High

Hello,

Here's a Christmas present for you. :)

I've gone through the Christmas Bird Count data since 2001 and separated out the data collected by our Dungeness Spit party. Here is a table showing the species and numbers seen from 2001-2017 (excluding 2012, when bad weather prevented counters on the spit). I believe I've sent you these data in separate years, but this table shows it all in one place. Sorry the print is so small, but I tried to put it all in one page.

Obviously there is huge variability between years, because, as you know too well, conditions on the spit change a lot from day to day as well as from year to year. We schedule the CBC months in advance, so we're stuck doing the count on a specific day regardless of weather. But the average number in the far right column gives a reasonably good idea of typical numbers counted by the spit walkers over the last 17 years. The list obviously includes birds on both sides of the spit, but you know the species that spend more time on the south side.

I'm also sending this to Liz Tobin at the JST, who as you know has asked about bird use pertaining to their proposed oyster farm. Clearly the most important species are those occurring every year, so I will emphasize to her those species that predictably occur every late fall/early winter in Dungeness Harbor, particularly Brant and several species of dabbling and diving ducks. I believe they are the species that will be most disturbed by extra oyster boat traffic and people walking on the mudflats of Dungeness Harbor during winter.

Unfortunately, we don't have similar data for other times of the year. Do you have bird counts for Dungeness Harbor for migration periods or through the summer? I could get something from eBird data, but it's not very complete, I'm afraid.

Thanks!
Bob

Birds counted by Dungeness Spit Christmas Bird Count field party from 2001-2017 (Note: These data exclude 2012. There were no spit walkers in 2012 because of bad weather)

The Sequim-Dungeness CBC occurs in mid-December on the first Monday of the CBC count period, which begins December 14.

91 total species observed

Year Count Date	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2014	2015	2016	2017	Number of Years Observed N = 16	Mean Number Counted (Rounded to nearest whole number)
	17-Dec	16-Dec	15-Dec	20-Dec	19-Dec	18-Dec	17-Dec	15-Dec	14-Dec	20-Dec	19-Dec	16-Dec	15-Dec	14-Dec	19-Dec	18-Dec		
Emperor Goose	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0
Snow Goose	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Brant	200	250	265	160	1200	350	900	1800	2835	400	2700	480	170	465	150	85	16	776
Cackling Goose	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	2	0
Canada Goose	130	3	13	70	85	27	0	0	2	3	2	25	0	0	0	0	10	23
Trumpeter Swan	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0	2	1
Gadwall	0	0	8	0	8	6	0	4	4	0	12	0	6	2	1	0	9	3
Eurasian Wigeon	1	0	1	2	0	6	2	4	5	3	2	1	2	0	1	1	13	2
American Wigeon	1087	2600	3150	2600	1500	7000	1750	3200	10000	1000	7160	2000	2500	2300	5500	650	16	3337
Mallard	2650	2000	3500	2404	500	10000	8100	800	10000	300	7015	2000	4000	4060	3002	4000	16	4021
Northern Shoveler	0	2	0	0	15	2	1	4	20	0	8	1	6	0	3	0	10	4
Northern Pintail	1233	1000	1750	2001	4500	6000	4100	2000	10000	150	6000	2004	1500	3075	2500	150	16	2998
Green-winged Teal	500	250	58	0	25	750	6	6	500	2	26	25	250	780	0	250	14	214
Canvasback	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0
Greater Scaup	82	20	20	50	5	31	55	0	30	120	118	250	87	33	13	158	15	67
Lesser Scaup	0	0	0	0	0	0	28	1	15	0	0	0	0	1	0	0	4	3
scaup sp.	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	1	9
Harlequin Duck	35	50	47	8	3	10	20	25	30	6	18	35	50	14	12	39	16	25
Surf Scoter	56	75	52	65	35	50	60	40	72	1	206	130	57	250	29	24	16	75
White-winged Scoter	40	14	24	7	19	23	17	15	5	0	4	6	3	5	35	0	14	14
Black Scoter	8	34	30	28	25	10	22	40	80	10	24	20	22	12	3	5	16	23
Long-tailed Duck	11	125	61	45	25	35	56	30	39	8	67	40	10	44	9	14	16	39
Bufflehead	450	1000	520	80	150	170	230	200	290	12	250	132	140	55	57	16	249	249
Common Goldeneye	80	55	36	43	12	50	84	30	70	100	105	55	40	48	38	37	16	55
Barrow's Gldneye	0	0	0	0	0	0	1	0	1	0	0	0	2	2	0	0	4	0
Common Merganser	0	0	0	2	0	0	0	0	0	0	0	0	0	4	0	0	2	0
Red-Breasted Merganser	40	32	57	29	75	91	36	50	125	50	58	65	12	14	16	13	16	48
Red-throated Loon	10	13	2	4	15	1	9	30	25	2	16	3	21	19	5	2	16	11
Pacific Loon	25	23	12	20	27	26	38	10	125	0	55	25	8	2	16	8	15	26
Common Loon	4	7	18	105	9	2	6	10	20	7	13	12	17	5	2	16	16	16
Yellow-billed Loon	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Horned Grebe	10	2	7	27	12	5	19	10	24	12	17	25	12	38	1	2	16	14
Red-necked Grebe	0	0	16	19	5	6	10	2	17	2	2	2	2	5	1	2	14	6
Eared Grebe	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0
Western Grebe	2	0	0	1	3	1	7	2	0	0	0	0	0	3	0	0	7	1
Short-tailed Shearwater	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Leach's Storm-Petrel	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0
Brandt's Cormorant	5	8	0	60	0	3	2	5	5	0	41	35	5	4	10	0	12	11
Double-crested Cormorant	212	125	61	31	27	40	100	10	230	50	42	66	70	13	20	90	16	74
Pelagic Cormorant	13	15	25	5	15	1	26	12	60	6	12	25	7	8	0	2	15	15
Great Blue Heron	7	3	14	14	5	10	2	2	9	1	15	13	3	3	4	1	16	7
Bald Eagle (adult)	4	4	3	4	1	4	4	6	7	6	4	3	4	6	0	3	15	4
Bald Eagle (immature)	2	2	3	3	3	4	1	1	2	1	2	9	3	0	0	1	14	2
Bald Eagle (unknown age)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	1	0
Northern Harrier	2	3	4	2	1	4	2	1	3	5	4	4	0	4	2	0	14	3
Sharp-shinned Hawk	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Cooper's Hawk	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Merlin	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Peregrine Falcon	1	2	1	1	1	0	2	1	0	0	2	2	0	0	2	1	11	1
large falcon, sp.	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Black-billed Plover	15	0	250	365	420	100	30	350	209	0	100	0	250	21	37	8	13	135
Killdeer	0	2	1	1	2	0	1	5	1	0	0	0	0	1	1	0	8	1
Long-billed Curlew	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Marbled Godwit	30	0	0	0	0	7	0	0	0	0	0	2	0	0	0	0	3	2
Ruddy Turnstone	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Black Turnstone	6	0	11	2	5	18	20	2	0	0	0	0	3	8	8	21	11	7
Red Knot	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Sanderling	193	150	250	253	75	75	202	200	26	15	60	125	25	150	55	359	16	138
Dunlin	53	550	650	2030	3250	1750	860	2000	1036	0	600	2000	600	1250	2000	1151	15	1236
Rock Sandpiper	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Western Sandpiper	0	2	0	1	1	0	0	5	0	0	0	0	0	0	0	1	5	1
Long-billed Dowitcher	0	0	1	0	0	0	16	0	0	0	0	0	0	0	0	0	2	1
Red Phalarope	0	350	13	0	0	0	0	0	0	0	0	0	0	0	0	0	2	23
Mew Gull	107	83	50	55	150	40	45	6	55	20	40	35	50	62	65	0	15	54
Ring-billed Gull	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
California Gull	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	3	0
Herring Gull	2	0	1	3	1	1	0	0	2	0	0	0	0	0	0	0	6	1
Thayer's Gull	0	0	1	12	2	4	0	0	1	0	0	0	0	0	0	0	5	1
Western Gull	16	12	25	34	7	25	8	3	17	10	13	15	0	2	0	20	14	13
Glaucous-wing/Olympic Gull	377	250	40	98	163	40	140	150	170	60	87	55	50	72	70	20	16	115
Glaucous Gull	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2	0
Common Murre	2	35	14	106	85	12	44	20	300	30	111	4	60	126	75	35	16	66
Pigeon Guillemot	17	25	57	26	32	51	20	8	90	2	58	25	1	16	15	18	16	29
Marbled Murrelet	2	0	4	29	2	6	0	3	24	0	0	0	0	2	0	0	8	5
Ancient Murrelet	0	100	20	392	183	20	81	25	90	0	175	12	8	400	50	25	14	99
Rhinoceros Auklet	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	2	0
Snowy Owl	0	0	0	0	0	4	0	0	0	0	3	0	0	0	0	0	2	0
Short-eared Owl	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0
Anna's Hummingbird	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Belted Kingfisher	2	2	1	2	1	0	0	0	0	0	2	1	0	0	1	0	8	1
Northern Flicker	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Common Raven	5	2	2	0	0	11	2	8	9	0	5	10	7	2	2	1	13	4
Horned Lark	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0
Pacific Wren	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	2	0
Marsh Wren	2	1	8	0	2	1	1	0	0	0	1	1	0	0	0	0	8	1
Golden-crowned Kinglet	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	1	1
Ruby-crowned Kinglet	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0
Varied Thrush	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
American Pipit	0	0	0	0	0	0	4	0	0	0	0	12	0	0	0	8	3	2
Lapland Longspur	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0
Snow Bunting	0	0	0	0	0	1	0	0	0	0	0	2	0	0				

