

Christmas Bird Count Results, 2004 - 2021

Powell River, BC

Circle code **BCPO**
Data access 12-19-21

Notes "cw" = "detected during count-week, but not on the count-date"
"birds per hour" = "number of birds per party-hour"

Date	27-Dec	28-Dec	28-Dec	16-Dec	14-Dec	20-Dec	19-Dec	17-Dec	17-Dec	14-Dec	21-Dec	19-Dec	17-Dec	16-Dec	22-Dec	14-Dec	20-Dec	19-Dec
N of participants	4	3	14	10	15	12	12	11	18	19	5	17	22	17	19	16	15	17
N of party-hours	16.0	23.0	77.0	30.0	20.5	27.5	45.3	35.3	39.3	26.6	24.0	47.5	43.2	39.4	37.8	50.0	61.4	66.1
N of species	77	70	86	74	79	75	82	68	81	83	86	82	87	86	69	79	87	71
N of birds	2,529	2,900	7,172	5,704	6,876	6,987	6,626	9,287	6,544	4,788	6,127	5,441	9,008	6,090	4,007	6,627	12,819	4,864
Birds per hour	158.1	126.1	93.1	190.1	335.4	254.1	146.4	263.5	166.7	180.0	255.3	114.5	208.5	154.4	105.9	132.5	208.8	73.6

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Greater White-fronted Goose <i>[Anser albifrons]</i>	GWFG	counted													1					1
		Birds per hour													0.023					0.015
Snow Goose <i>[Chen caerulescens]</i>	SNGO	counted		1		1	2					1	4	cw	2			1	1	
		Birds per hour		0.044		0.033	0.098					0.038	0.167		0.046			0.020	0.016	
Cackling Goose <i>[Branta hutchinsii]</i>	CACG	counted									1	5		2	5				156	cw
		Birds per hour									0.026	0.188		0.042	0.116				2.541	
Canada Goose <i>[Branta canadensis]</i>	CAGO	counted	190	151	310	242	170	207	342	392	170	175	211	124	235	119	123	71	156	63
		Birds per hour	11.875	6.565	4.026	8.067	8.293	7.527	7.558	11.121	4.331	6.579	8.792	2.611	5.441	3.017	3.254	1.420		0.953
Mute Swan <i>[Cygnus olor]</i>	MUSW	counted	1																	
		Birds per hour	0.063																	
Trumpeter Swan <i>[Cygnus buccinator]</i>	TRSW	counted	9	4	8	7	11	14	10	4	6	2	6	7	24	20	13	9		9
		Birds per hour	0.563	0.174	0.104	0.233	0.537	0.509	0.221	0.114	0.153	0.075	0.250	0.147	0.556	0.507	0.344	0.180		0.136
Wood Duck <i>[Aix sponsa]</i>	WODU	counted				2										1				
		Birds per hour				0.067										0.025				
Gadwall <i>[Anas strepera]</i>	GADW	counted							8		cw	6	6	8	2					
		Birds per hour							0.177			0.226	0.250	0.168	0.046					
Eurasian Wigeon <i>[Anas penelope]</i>	EUWI	counted	cw	1	1			1			cw	2	2	2	2	2			3	
		Birds per hour		0.044	0.013			0.036				0.075	0.083		0.046	0.051			0.040	0.049
American Wigeon <i>[Anas americana]</i>	AMWI	counted	23	446	596	137	426	341	320	229	114	419	788	293	317	243	165	249	221	316
		Birds per hour	1.438	19.391	7.740	4.567	20.781	12.400	7.072	6.497	2.905	15.752	32.833	6.168	7.340	6.161	4.365	4.980	3.599	4.781
Mallard <i>[Anas platyrhynchos]</i>	MALL	counted	73	35	81	249	160	314	138		46	113	224	101	211	277	185	141	244	258
		Birds per hour	4.563	1.522	1.052	8.300	7.805	11.418	3.050		1.172	4.248	9.333	2.126	4.885	7.023	4.894	2.820	3.974	3.903
Northern Shoveler <i>[Anas clypeata]</i>	NOSH	counted									cw									
		Birds per hour																		
Northern Pintail <i>[Anas acuta]</i>	NOPI	counted			cw	2			2				1							
		Birds per hour				0.067			0.044				0.042							
Green-winged Teal <i>[Anas crecca]</i>	GWTE	counted	6	16					4	7	cw		11	2	cw	1	1	2	1	2
		Birds per hour	0.375	0.696					0.088	0.199		0.000	0.458	0.042		0.025	0.026	0.040	0.016	0.030
Green-winged Teal (American) <i>[Anas crecca carolinensis]</i>		counted	6					2												
		Birds per hour	0.375					0.073												
Canvasback <i>[Aythya valisineria]</i>	CANV	counted	3												6					cw
		Birds per hour	0.188												0.139					
Ring-necked Duck <i>[Aythya collaris]</i>	RNDU	counted	35	69	45	5	39	155	68	36	31	131	8	169	41	62	74	29	71	92
		Birds per hour	2.188	3.000	0.584	0.167	1.902	5.636	1.503	1.021	0.790	4.925	0.333	3.558	0.949	1.572	1.956	0.580	1.156	1.392
Greater Scaup <i>[Aythya marila]</i>	GRSC	counted	cw		2	20		12	1	2	26	10	3	3	3	17	9	1	6	4
		Birds per hour			0.087	0.260		0.585	0.036	0.044	0.738	0.255	0.113	0.125	0.063	0.394	0.228	0.026	0.120	0.061

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Lesser Scaup [<i>Aythya affinis</i>]	LESC	counted Birds per hour	cw 0.522	12 2.013	155 2.013	195 6.500	32 1.561	20 0.727	40 0.884	1 0.028	9 0.229	43 1.617	47 1.958	53 1.116	41 0.949	1 0.025		1 0.020	11 0.179	17 0.257
Harlequin Duck [<i>Histrionicus histrionicus</i>]	HADU	counted Birds per hour	42 2.625	29 1.261	48 0.623	28 0.933	48 2.341	62 2.255	44 0.972	45 1.277	74 1.885	58 2.180	45 1.875	31 0.653	60 1.389	48 1.217	53 1.401	26 0.520	38 0.619	25 0.378
Surf Scoter [<i>Melanitta perspicillata</i>]	SUSC	counted Birds per hour	124 7.750	180 7.826	225 2.922	287 9.567	413 20.146	305 11.091	426 9.414	266 7.546	79 2.013	242 9.098	193 8.042	123 2.589	269 6.227	149 3.778	130 3.436	161 3.220	105 1.710	73 1.104
White-winged Scoter [<i>Melanitta fusca</i>]	WWSC	counted Birds per hour	46 2.875	62 2.696	105 1.364	93 3.100	42 2.049	45 1.636	65 1.437	66 1.872	25 0.637	30 1.128	16 0.667	1 0.021	8 0.134	13 0.330	35 0.926	28 0.560	53 0.863	9 0.136
Black Scoter [<i>Melanitta americana</i>]	BLSC	counted Birds per hour	30 1.875	41 1.783	39 0.507	32 1.067	33 1.610	54 1.964	36 0.796	14 0.397	18 0.459	29 1.090	12 0.500	12 0.243	29 0.485	17 0.431		38 0.760	3 0.049	
Long-tailed Duck [<i>Clangula hyemalis</i>]	LTDU	counted Birds per hour								cw			cw			2 0.051				1 0.015
Bufflehead [<i>Bucephala albeola</i>]	BUFF	counted Birds per hour	121 7.563	41 1.783	139 1.805	248 8.267	171 8.341	119 4.327	165 3.646	77 2.184	130 3.312	125 4.699	117 4.875	100 2.105	81 1.875	90 2.282	163 4.309	77 1.540	94 1.531	96 1.452
Common Goldeneye [<i>Bucephala clangula</i>]	COGO	counted Birds per hour	40 2.500	28 1.217	38 0.494	37 1.233	55 2.683	53 1.927	58 1.282		68 1.732	67 2.519	47 1.958	66 1.389	67 1.551	26 0.659	44 1.163	18 0.360	13 0.212	8 0.121
Barrow's Goldeneye [<i>Bucephala islaica</i>]	BAGO	counted Birds per hour	47 2.938	25 1.087	32 0.416	32 1.067	44 2.146	29 1.055	96 2.122	74 2.099	7 0.178	58 2.180	51 2.125	46 0.968	29 0.671	54 1.369	21 0.555	7 0.140	51 0.831	3 0.045
Hooded Merganser [<i>Lophodytes cucullatus</i>]	HOME	counted Birds per hour	19 1.188	4 0.174	58 0.753	20 0.667	16 0.780	7 0.255	11 0.243	9 0.255	24 0.611	30 1.128	24 1.000	80 1.684	21 0.486	58 1.471	57 1.507	50 1.000	25 0.407	36 0.545
Common Merganser [<i>Mergus merganser</i>]	COME	counted Birds per hour	13 0.813	24 1.043	62 0.805	20 0.667	23 1.122	19 0.691	24 0.530	55 1.560	96 2.446	63 2.368	67 2.792	144 3.032	111 2.569	126 3.195	63 1.665	94 1.880	97 1.580	83 1.256
Red-breasted Merganser [<i>Mergus serrator</i>]	RBME	counted Birds per hour	5 0.313	10 0.435	37 0.481	13 0.433	26 1.268	15 0.545	57 1.260	14 0.397	38 0.968	18 0.677	36 1.500	32 0.674	32 0.741	31 0.786	8 0.211	21 0.420	22 0.358	17 0.257
Ruddy Duck [<i>Oxyura jamaicensis</i>]	RUDU	counted Birds per hour	1 0.063								3 0.076									
duck sp. [<i>Anatinae</i>]		counted Birds per hour				110 3.667			8 0.177											7 0.106
Ring-necked Pheasant [<i>Phasianus colchicus</i>]	RNEP	counted Birds per hour								1 0.028										
Ruffed Grouse [<i>Bonasa umbellus</i>]		counted Birds per hour															1 0.026			
Red-throated Loon [<i>Gavia stellata</i>]														1 0.021053	1 0.023148					1 0.015
Pacific Loon [<i>Gavia pacifica</i>]	PALO	counted Birds per hour	6 0.375	8 0.348	8 0.104	1 0.033	4 0.195		1 0.022	1 0.028	18 0.459	1 0.038	7 0.292	7 0.084	6 0.100	35 0.888	4 0.106	48 0.960	19 0.309	33 0.499
Common Loon [<i>Gavia immer</i>]	COLO	counted Birds per hour	20 1.250	27 1.174	32 0.416	13 0.433	32 1.561	50 1.818	54 1.193	20 0.567	32 0.815	29 1.090	54 2.250	10 0.119	49 0.820			38 0.760	30 0.489	27 0.408
Loon sp. [<i>Gavia</i>]		counted Birds per hour				6 0.293								4 0.093	35 0.887	4 0.106		2 0.040		
Pied-billed Grebe [<i>Podilymbus podiceps</i>]	PBGR	counted Birds per hour	2 0.125	1 0.043	2 0.026		1 0.049				5 0.127	1 0.038	3 0.125	14 0.295	4 0.093	27 0.685	25 0.661	3 0.060	8 0.533	5 0.076
Horned Grebe [<i>Podiceps auritus</i>]	HOGR	counted Birds per hour	39 2.438	22 0.957	211 2.740	15 0.500	53 2.585	55 2.000	64 1.414	21 0.596	32 0.815	21 0.789	35 1.458	11 0.232	34 0.787	95 2.409	11 0.291	29 0.580	28 1.867	16 0.242
Red-necked Grebe [<i>Podiceps grisegena</i>]	RNGR	counted Birds per hour	38 2.375	13 0.565	24 0.312	7 0.233	14 0.683	32 1.164	10 0.221	2 0.057	19 0.484	12 0.451	29 1.208	19 0.400	cw	43 1.090	5 0.132	32 0.640	27 1.800	23 0.348
Eared Grebe	EAGR	counted													1					

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<i>[Podiceps nigricollis]</i>		Birds per hour													0.017					
Western Grebe	WEGR	counted	15		37	1	1		4				1	cw	3	30	2		400	1
<i>[Aechmophorus occidentalis]</i>		Birds per hour	0.938		0.481	0.033	0.049		0.088			0.000	0.042		0.069	0.761	0.053		26.667	0.015
Grebe sp.		counted	1			1	2	2			1	1			1	6		9		
<i>[Podicipedidae]</i>		Birds per hour	0.063			0.033	0.098	0.073			0.025	0.038			0.023	0.152		0.180		
Brandt's Cormorant	BRCO	counted	2		2	1	2		4		cw	1		1	cw					5
<i>[Phalacrocorax penicillatus]</i>		Birds per hour	0.125		0.026	0.033	0.098		0.088					0.021						0.076
Double-crested Cormorant	DCCO	counted	76	38	89	32	36	19	48	107	22	26	93	30	69	65	16	44	35	21
<i>[Phalacrocorax auritus]</i>		Birds per hour	4.750	1.652	1.156	1.067	1.756	0.691	1.061	3.035	0.561	0.977	3.875	0.632	1.597	1.648	0.423	0.880	2.333	0.318
Pelagic Cormorant	PECO	counted	23	10	27	21	11	14	39	25	31	41	34	28	24	36	18	31	31	16
<i>[Phalacrocorax pelagicus]</i>		Birds per hour	1.438	0.435	0.351	0.700	0.537	0.509	0.862	0.709	0.790	1.541	1.417	0.589	0.556	0.913	0.476	0.620	2.067	0.242
Cormorant sp.		counted	3		3	1									8	13	5	2		
<i>[Phalacrocorax]</i>		Birds per hour	0.188		0.039	0.033									0.185	0.330	0.132	0.040		
Great Blue Heron (Blue form)	GBHE	counted	10	5	17	6	12	24	18	11	6	7	20	5	12	23	4	19	11	7
<i>[Ardea herodias]</i>		Birds per hour	0.625	0.217	0.221	0.200	0.585	0.873	0.398	0.312	0.153	0.263	0.833	0.105	0.278	0.583	0.106	0.380	0.733	0.106
Turkey Vulture	TUVU	counted	cw																	
<i>[Cathartes aura]</i>		Birds per hour																		
Osprey	OSPR	counted					1								cw					
<i>[Paion haliaetus]</i>		Birds per hour					0.049													
Golden Eagle	GOEA	counted		cw	2			cw								6	4			
<i>[Aquila chrysaetos]</i>		Birds per hour			0.026											0.152	0.106			
Northern Harrier	NOHA	counted						1							1					2
<i>[Circus cyaneus]</i>		Birds per hour						0.036							0.017					0.030
Sharp-shinned Hawk	SSHA	counted		1	cw	1		1	2		3	2	4	3	2	4		2	8	
<i>[Accipiter striatus]</i>		Birds per hour		0.044		0.033		0.036	0.044		0.076	0.075	0.167	0.063	0.046	0.101		0.040	0.130	
Cooper's Hawk	COHA	counted	1		1			cw	1				1	1					5	
<i>[Accipiter cooperii]</i>		Birds per hour	0.063		0.013			0.022					0.042	0.021					0.081	
Northern Goshawk	NOGO	counted		1	cw						cw		1			4				
<i>[Accipiter gentilis]</i>		Birds per hour		0.044									0.042			0.101				
Bald Eagle	BAEA	counted	56	22	37	38	101	34	68	65	69	76	61	34	134	38	64	103	41	80
<i>[Haliaeetus leucocephalus]</i>		Birds per hour	3.500	0.957	0.481	1.267	4.927	1.236	1.503	1.844	1.758	2.857	2.542	0.716	3.102	0.963	1.692	2.060	0.668	1.210
Red-tailed Hawk	RTHA	counted	2	1	3	3	3	1	5	2	3	3	5	1	3	6	4	3	10	7
<i>[Buteo jamaicensis]</i>		Birds per hour	0.125	0.044	0.039	0.100	0.146	0.036	0.110	0.057	0.076	0.113	0.208	0.021	0.069	0.152	0.106	0.060	0.163	0.106
Rough-legged Hawk	RLHA	counted						cw								1				
<i>[Buteo lagopus]</i>		Birds per hour														0.025				
American Coot	AMCO	counted	3		2	3	4	1	1	cw	6			7	26	67	38	21	12	67
<i>[Fulica americana]</i>		Birds per hour	0.188		0.026	0.100	0.195	0.036	0.022		0.153			0.147	0.602	1.699	1.004	0.420	0.195	1.014
Black Oystercatcher	BLOY	counted	2		6	2		6	31	14	38	16	22	29	19	24	27	11	8	28
<i>[Haematopus bachmani]</i>		Birds per hour	0.125		0.078	0.067		0.218	0.685	0.397	0.968	0.602	0.917	0.611	0.440	0.609	0.714	0.220	0.130	0.424
Killdeer	KILL	counted	1	25	34	3	17		14	18	35	16	39	2	12	12	5	4	6	13
<i>[Charadrius vociferus]</i>		Birds per hour	0.063	1.087	0.442	0.100	0.829		0.309	0.511	0.892	0.602	1.625	0.042	0.278	0.304	0.132	0.080	0.098	0.197
Spotted Sandpiper	SOSA	counted	1																	
<i>[Actitis macularia]</i>		Birds per hour	0.063																	
Greater Yellowlegs	GRYE	counted								1										
<i>[Tringa melanoleuca]</i>		Birds per hour								0.028										
Black Turnstone	BLTU	counted	2	13	12	15	11	26	54	36	42	17	44	14	29	10	82	11	24	3
<i>[Arenaria melanocephala]</i>		Birds per hour	0.125	0.565	0.156	0.500	0.537	0.945	1.193	1.021	1.070	0.639	1.833	0.295	0.671	0.254	2.168	0.220	0.391	0.045

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Dunlin	DUNL	counted					8	5	4		14	13	5							1
[<i>Calidris alpina</i>]		Birds per hour					0.390	0.182	0.088		0.357	0.489	0.208							0.015
Least Sandpiper	LESA	counted						5												
[<i>Calidris minutilla</i>]		Birds per hour						0.182												
Western Sandpiper	WESA	counted		2																
[<i>Calidris mauri</i>]		Birds per hour		0.087																
Peep sp.															cw					
[<i>Calidris sp.</i>]																				
Wilson's Snipe	WISN	counted											1				1			
[<i>Capella gallinago</i>]		Birds per hour											0.042				0.026			
Common Murre	COMU	counted		cw		2							cw			1				
[<i>Uria aalge</i>]		Birds per hour				0.067										0.025				
Pigeon Guillemot	PIGU	counted								cw										
[<i>Cepphus columba</i>]		Birds per hour																		
Marbled Murrelet	MAMU	counted	16	3	2	2	4		7				2	2				42		
[<i>Brachyramphus marmoratus</i>]		Birds per hour	1.000	0.130	0.026	0.067	0.195		0.155				0.083	0.042				1.065		
Ancient Murrelet	ANMU	counted				6				cw	44		cw	2	3			522		
[<i>Synthliboramphus antiquus</i>]		Birds per hour				0.200					1.121		cw	0.042	0.069			13.235		
Rhinoceros Auklet	RHAU	counted											cw							
[<i>Cerorhinca monocerata</i>]		Birds per hour																		
Bonaparte's Gull	BOGU	counted		30	2				11		55								11	
[<i>Chroicocephalus philadelphia</i>]		Birds per hour		1.304	0.026				0.243		1.401								0.220	
Shortbilled Gull	SHGU	counted	188	881	270	799	711	765	422	2354	973	497	510	169	650	583	269	1300	195	70
[<i>Larus canus</i>]		Birds per hour	11.750	38.304	3.507	26.633	34.683	27.818	9.326	66.780	24.790	18.684	21.250	3.558	15.046	14.782	7.111	26.000	3.176	1.059
Western Gull	WEGU	counted							2											
[<i>Larus occidentalis</i>]		Birds per hour							0.044											
California Gull	CAGU	counted	42			8	1	cw		5	1		2	3	22			79		3
[<i>Larus californicus</i>]		Birds per hour	2.625			0.267	0.049			0.142	0.025		0.083	0.063	0.509			2.088		0.049
Herring Gull	HERG	counted			3	3	3		2		8	4	1					8	7	8
[<i>Larus argentatus</i>]		Birds per hour			0.039	0.100	0.146		0.044		0.204	0.150	0.042					0.211	0.140	0.130
Iceland Gull	ICGU	counted	1	100	72	278	1510	538	155	294	69	302	206	2543	158	147	711	1308	342	
[<i>Larus thayeri</i>]		Birds per hour	0.063	1.299	2.400	13.561	54.909	11.890	4.397	7.490	2.594	12.583	4.337	58.866	4.006	3.886	14.220	21.303	5.174	
Glaucous-winged Gull	GWGU	counted	155	98	210	231	234	241	766	491	370	433	408	332	335	153	204	256	377	374
[<i>Larus glaucescens</i>]		Birds per hour	9.688	4.261	2.727	7.700	11.415	8.764	16.928	13.929	9.427	16.278	17.000	6.989	7.755	3.879	5.393	5.120	6.140	5.658
Glaucous-winged * Western		counted				6				4				5	1				3	
[<i>L. occidentalis</i> x <i>glaucescens</i>]		Birds per hour				0.200				0.102				0.116	0.025				0.049	
Glaucus Gull	GLGU	counted																		1
[<i>Larus hyperboreus</i>]		Birds per hour																	0.020	
Gull sp.		counted	70	8	176	340	56	320	3300	202	3	2	194	143	225	273		100	220	237
[<i>Larinae</i>]		Birds per hour	4.375	0.104	5.867	16.585	2.036	7.072	93.617	5.146	0.113	0.083	4.084	3.310	5.705	7.216	2.000	3.583	3.585	
Rock Pigeon	ROPI	counted	99	26	250	81	242	129	53		60	53	95	66	115	239	139	301	395	153
[<i>Columba livia</i>]		Birds per hour	6.188	1.130	3.247	2.700	11.805	4.691	1.171		1.529	1.992	3.958	1.389	2.662	6.060	3.674	6.020	6.433	2.315
Eurasian Collared Dove	ECDO	counted										1			10	2	20	28	17	15
[<i>Streptopelia decaocto</i>]		Birds per hour										0.038			0.231	0.051	0.529	0.560	0.277	0.227
Great Horned Owl	GHOW	counted			cw		1								2				1	2
[<i>Bubo virginianus</i>]		Birds per hour					0.049								0.046			0.020	0.033	cw
Northern Pygmy-Owl	NPOW	counted			1								1		1	1				
[<i>Glaucidium gnoma</i>]		Birds per hour			0.013								0.042		0.023	0.025				

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Barred Owl <i>[Strix varia]</i>	BAOW	counted			1	1	1	1	1	1	2		1	1	4	4	3	3		cw
		Birds per hour			0.013	0.033	0.049	0.036	0.022	0.028	0.051		0.042	0.021	0.093	0.101	0.079	0.060		
Anna's Hummingbird <i>[Calypte anna]</i>	ANHU	counted		2	1	2	4	4	2	4	11	7	9	23	31	33	12	23	28	38
		Birds per hour		0.087	0.013	0.067	0.195	0.145	0.044	0.113	0.280	0.263	0.375	0.484	0.718	0.837	0.317	0.460	0.456	0.575
Costa's Hummingbird <i>[Calypte costae]</i>	COHU	counted														1				
		Birds per hour														0.025				
Rufous Hummingbird <i>[Selasphorus ruber]</i>	RUHU	counted										cw		1						
		Birds per hour												0.021						
Belted Kingfisher <i>[Ceryle alcyon]</i>	BEKI	counted	3	5	9	4	7		3	7	8	4	12		7	6	3	1	6	4
		Birds per hour	0.188	0.217	0.117	0.133	0.341		0.066	0.199	0.204	0.150	0.500		0.162	0.152	0.079	0.020	0.098	0.061
Red-breasted Sapsucker <i>[Sphyrapicus ruber]</i>	RBSA	counted									3		3	2	21	4				
		Birds per hour									0.076		0.125	0.042	0.486	0.101				
Downy Woodpecker <i>[Picoides pubescens]</i>	DOWO	counted	2		3	1	1	2	4	1	3		3	3	3	10		4	3	4
		Birds per hour	0.125		0.039	0.033	0.049	0.073	0.088	0.028	0.076		0.125	0.063	0.069	0.254		0.080	0.049	0.061
Hairy Woodpecker <i>[Picoides villosus]</i>	HAWO	counted	4	1	3				6	cw	2	7	6	3	5	10		4	3	3
		Birds per hour	0.250	0.044	0.039				0.133	cw	0.051	0.263	0.250	0.063	0.116	0.254	0.000	0.080	0.049	0.045
Northern Flicker <i>[Colaptes auratus]</i>	NOFL	counted			19	11	18	13		16	38	32	57	36	41	51	19	30	69	53
		Birds per hour			0.247	0.367	0.878	0.473	0.000	0.454	0.968	1.203	2.375	0.758	0.949	1.293	0.502	0.600	1.124	0.802
Northern (Red-shafted) Flicker <i>[Colaptes auratus]</i>		counted	11	2	4			14	27											
		Birds per hour	0.688	0.087	0.052			0.509	0.597											
Pileated Woodpecker <i>[Dryocopus pileatus]</i>	PIWO	counted	2	1	2		2	4	2	2			1	2	4	4		1	8	1
		Birds per hour	0.125	0.043	0.026		0.098	0.088	0.057	0.051			0.042	0.042	0.093	0.101		0.020	0.130	0.015
American Kestrel <i>[Falco sparverius]</i>		counted																	1	1
		Birds per hour																	0.016	0.015
Merlin <i>[Falco columbarius]</i>	MERL	counted			2	1	1			2	cw	cw	1		cw	3		5	4	
		Birds per hour			0.026	0.033	0.049			0.057			0.042			0.076		0.100	0.065	
Merlin (black) <i>[Falco columbarius suckleyi]</i>		counted												1						
		Birds per hour												0.021						
Gyr Falcon <i>[Falco rusticolus]</i>	GYRF	counted					1								cw					
		Birds per hour					0.049													
Peregrine Falcon <i>[Falco peregrinus]</i>	PEFA	counted						1			1								1	
		Birds per hour						0.022			0.025								0.016	
Northern Shrike <i>[Lanius excubitor]</i>	NOSH	counted								cw					1					cw
		Birds per hour													0.023					
Hutton's Vireo <i>[Vireo huttoni]</i>	HUVI	counted	cw	1	cw														2	
		Birds per hour		0.044															0.04	
Steller's Jay <i>[Cyanocitta stelleri]</i>	STJA	counted	20		56	2	42	18	50	40	32	29	36	119	53	60	2	32	91	52
		Birds per hour	1.250		0.727	0.067	2.049	0.655	1.105	1.135	0.815	1.090	1.500	2.505	1.227	1.521	0.053	0.640	1.482	0.787
American Crow <i>[Corvus caurinus]</i>	AMCR	counted	161	69	243	290	183	293	197	278	156	124	195	180	194	171	68	329	62	254
		Birds per hour	10.063	3.000	3.156	9.667	8.927	10.655	4.354	7.887	3.975	4.662	8.125	3.789	4.491	4.336	1.798	6.580	1.010	3.843
Common Raven <i>[Corvus corax]</i>	CORA	counted	27	14	44	10	48	58	72	52	75	135	115	130	122	109	112	52	65	111
		Birds per hour	1.688	0.609	0.571	0.333	2.341	2.109	1.591	1.475	1.911	5.075	4.792	2.737	2.824	2.764	2.961	1.040	1.059	1.679
Chestnut-backed Chickadee <i>[Poecile rufescens]</i>	CBCH	counted	89	25	90	160	67	54	89	45	122	95	181	115	51	76	32	44	38	47
		Birds per hour	5.563	1.087	1.169	5.333	3.268	1.964	1.967	1.277	3.108	3.571	7.542	2.421	1.181	1.927	0.846	0.880	0.619	0.711
Bushtit <i>[Psaltriparus minimus]</i>	BUSH	counted								2		10		1			8	23	10	1
		Birds per hour								0.057		0.376		0.021			0.211	0.460	0.163	0.015
Red-breasted Nuthatch	RBNU	counted			2	5	5	10	6	5	10	1	8	6	5	5	3	2	36	4

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<i>[Sitta canadensis]</i>		Birds per hour			0.026	0.167	0.244	0.364	0.133	0.142	0.255	0.038	0.333	0.126	0.116	0.127	0.079	0.040	0.586	0.061
Brown Creeper <i>[Certhia americana]</i>	BRCR	counted			2		1		7	4	1	2		3	2	4			8	1
		Birds per hour			0.026		0.049		0.155	0.113	0.025	0.075	0.000	0.063	0.046	0.101			0.130	0.015
Pacific Wren <i>[Troglodytes pacificus]</i>	PAWR	counted	27	9	33	21	31	8	41	9	20	10	21	18	31	14	16	22		20
		Birds per hour	1.688	0.391	0.429	0.700	1.512	0.291	0.906	0.255	0.510	0.376	0.875	0.379	0.718	0.355	0.423	0.440		0.303
Pacific/Winter Wren <i>[Troglodytes pacificus hiemalis]</i>			1.688	0.391	0.429	0.700	1.512	0.291												26
		Birds per hour																		0.423
Bewick's Wren <i>[Thryomanes bewickii]</i>	BEWR	counted	1				1							1					1	1
		Birds per hour	0.063				0.049							0.021					0.016	0.015
American Dipper <i>[Cinclus mexicanus]</i>	AMDI	counted	1	1	2		1	1		1	1					2			2	6
		Birds per hour	0.063	0.043	0.026		0.049	0.036		0.028	0.025						0.051	0.000	0.040	0.098
Golden-crowned Kinglet <i>[Regulus satrapa]</i>	GCKI	counted	40	24	234	219	157	58	126	65	173	192	154	121	75	63	87	69	88	24
		Birds per hour	2.500	1.043	3.039	7.300	7.659	2.109	2.785	1.844	4.408	7.218	6.417	2.547	1.736	1.597	2.300	1.380	1.433	0.363
Ruby-crowned Kinglet <i>[Regulus caleula]</i>	RUKI	counted	3	2	323	1	30	3	22		14	10	42	12	19	8	3	16	29	32
		Birds per hour	0.188	0.087	4.195	0.033	1.463	0.109	0.486		0.357	0.376	1.750	0.253	0.440	0.203	0.079	0.320	0.472	0.484
Kinglet sp. <i>[Regulus sp.]</i>																				
Hermit Thrush <i>[Catharus guttatus]</i>	HETH	counted			1		1						3		4	1	1	1	1	1
		Birds per hour			0.013		0.049						0.125		0.093	0.025	0.026	0.020	0.016	
American Robin <i>[Turdus migratorius]</i>	AMRO	counted	12	3	9	11	4	34	13	cw	3	82	29	23	30	21	6	11	28	30
		Birds per hour	0.750	0.130	0.117	0.367	0.195	1.236	0.287		0.076	3.083	1.208	0.484	0.694	0.532	0.159	0.220	0.456	0.454
Varied Thrush <i>[Ixoreus naevius]</i>	VATH	counted	17	2	22	2	22	54	225	3	79	46	29	135	252	20	43	55	24	38
		Birds per hour	1.063	0.087	0.286	0.067	1.073	1.964	4.972	0.085	2.013	1.729	1.208	2.842	5.833	0.507	1.137	1.100	0.391	0.575
European Starling <i>[Sturnus vulgaris]</i>	EUST	counted	163	190	1973	992	1081	698	478	897	461	175	543	528	824	657	188	321	878	358
		Birds per hour	10.188	8.261	25.623	33.067	52.732	25.382	10.564	25.447	11.745	6.579	22.625	6.304	13.791	0.152			14.300	5.416
Bohemian Waxwing <i>[Bombycilla garrulus]</i>	BOWA	counted											1	cw		1	1			
		Birds per hour											0.042			0.025	0.026			
Orange-crowned Warbler <i>[Oreothlypis celata]</i>	OCWA	counted						1					1			21	6			
		Birds per hour						0.036					0.042			0.533	0.159			
Townsend's Warbler <i>[Dendroica townsendi]</i>	TOWA	counted						cw								20	43			
		Birds per hour														0.507	1.138			
Wilson's Warbler <i>[Cardellina pusilla]</i>		counted																		
		Birds per hour																		
Chipping Sparrow <i>[Spizella passerina]</i>	CHSP	counted		1																
		Birds per hour		0.044																
Fox Sparrow <i>[Passerella iliaca]</i>	FOSP	counted	13	2	86	21	115	73	152	29	205	186	233	144	141	117	38	101	84	41
		Birds per hour	0.813	0.087	1.117	0.700	5.610	2.655	3.359	0.823	5.223	6.992	9.708	3.032	3.264	2.967	1.004	2.020	1.368	0.620
Dark-eyed (Slate-colored) Junco <i>[Junco hyemalis]</i>		counted		2												1				131
		Birds per hour		0.125												0.025				2.134
Dark-eyed (Oregon) Junco <i>[Junco hyemalis]</i>	DEJU	counted	113	160	221	336	562	432	405	160	384	354	349	449	684	261	277	208	302	294
		Birds per hour	7.063	6.957	2.870	11.200	27.415	15.709	8.950	4.539	9.783	13.308	14.542	5.361	11.448	2.510	0.847	4.16	4.919	4.448
White-crowned Sparrow <i>[Zonotrichia leucophrys]</i>	WCSP	counted			cw	5	2	4	7		6	16		2	2	1	7	5	2	1
		Birds per hour				0.167	0.098	0.146	0.155		0.153	0.602		0.024	0.017			0.100	0.033	0.015
Golden-crowned Sparrow <i>[Zonotrichia atricapilla]</i>		counted		3	cw	3	25	10	12		25	29	22	39	10	11	11	8	25	22
		Birds per hour		0.130		0.100	1.220	0.364	0.265		0.637	1.090	0.917	0.466	0.167	2.967	1.005	0.160	0.407	0.333
White-throated Sparrow <i>[Zonotrichia albicollis]</i>	WTSP	counted		7																
		Birds per hour		0.304																

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Savannah Sparrow [<i>Passerculus sawichensis</i>]	SASP	counted										4								
		Birds per hour										0.150								
Song Sparrow [<i>Melospiza melodia</i>]	SOSP	counted	37	34	96	29	140	137	162	47	192	118	179	137	133	99	32	166	199	212
		Birds per hour	2.313	1.478	1.247	0.967	6.829	4.982	3.580	1.333	4.892	4.436	7.458	1.636	2.226	0.025		3.320	3.241	3.207
Lincoln's Sparrow [<i>Melospiza lincolni</i>]	LISP	counted					7							1		1			2	1
		Birds per hour					0.342							0.012		3.322	0.688		0.033	0.015
Spotted Towhee [<i>Pipilo maculatus</i>]	SPTO	counted	20	13	70	29	104	116	120		144	151	176	114	179	131	26	124	78	74
		Birds per hour	1.250	0.565	0.909	0.967	5.073	4.218	2.652		3.669	5.677	7.333	1.361	2.996	16.658	4.974	2.480	1.270	1.120
Red-winged Blackbird [<i>Agelaius phoeniceus</i>]	RWBI	counted	cw	8	7		1	89	8		2	8	13					16	1	cw
		Birds per hour		0.348	0.091		0.049	3.236	0.177		0.051	0.301	0.542					0.026	0.320	0.016
Western Meadowlark [<i>Sturnella neglecta</i>]	WEME	counted							3			6		cw	2	1	7			1
		Birds per hour							0.066			0.226			0.033	0.025	0.185			0.015
Brewer's Blackbird [<i>Euphagus cyanocephalus</i>]	BRBL	counted	45	40	390	100	214	62	205	42	1	88	120	53	75	7	102	30	25	23
		Birds per hour	2.813	1.739	5.065	3.333	10.439	2.255	4.530	1.192	0.026	3.308	5.000	0.633	1.255	0.279	0.291	0.600	0.407	0.348
Pine Grosbeak [<i>Pinicola enucleator</i>]	PIGR	counted			1											261	277			
		Birds per hour			0.013											6.618	7.328			
House Finch [<i>Carpodacus mexicanus</i>]	HOFI	counted	1	15	42	27	29	31	36	15	34	41	11	28	23			5		34
		Birds per hour	0.063	0.652	0.546	0.900	1.415	1.127	0.796	0.426	0.866	1.541	0.458	0.334	0.385			0.100		0.514
Purple Finch [<i>Carpodacus purpureus</i>]	PUFI	counted	1	2	44	26	61	24	8	16	23	24	45	70	28	1		11		
		Birds per hour	0.063	0.087	0.571	0.867	2.976	0.873	0.177	0.454	0.586	0.902	1.875	0.836	0.469	0.025		0.220		
Red Crossbill [<i>Loxia curvirostra</i>]	RECR	counted	5					28			18	10		48	8					37
		Birds per hour	0.313					1.018			0.459	0.376		0.573	0.134					0.603
Common Redpoll [<i>Acanthis flammea</i>]	CORE	counted			cw											7	102			
		Birds per hour														0.178	2.698			
Pine Siskin [<i>Spinus pinus</i>]	PISI	counted	171		46	286	200	83	6		1086	2	35	408	310			791	5923	486
		Birds per hour	10.688		0.597	9.533	9.756	3.018	0.133		27.669	0.075	1.458	4.872	5.188			15.820	96.466	7.352
Evening Grosbeak [<i>Coccothraustes vespertinus</i>]	EVGR	counted				2	3	13			cw				2	51		20		
		Birds per hour				0.098	0.109	0.287							0.033	1.293		0.400		
House Sparrow [<i>Passer domesticus</i>]	HOSP	counted	3	4		9	10	32	9	20	30	2	15	35	26	37	5	16	50	4
		Birds per hour	0.188	0.174		0.300	0.488	1.164	0.199	0.567	0.764	0.075	0.625	0.418	0.435	0.938	0.132	0.320	0.814	0.061