

# Christmas Bird Count Results, 2004 - 2018

Powell River, BC

Circle code **BCPO**  
Data access 12-10-18

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
N of participants	4	3	14	10	15	12	12	11	18	19	5	17	22	17	19
N of 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	68.2
N of species	<b>77</b>	<b>70</b>	<b>86</b>	<b>74</b>	<b>79</b>	<b>75</b>	<b>82</b>	<b>68</b>	<b>81</b>	<b>83</b>	<b>86</b>	<b>82</b>	<b>87</b>	<b>86</b>	<b>69</b>
N of birds	2,696	3,046	7,457	5,934	7,025	7,199	6,986	9,683	6,719	4,970	6,348	5,578	9,267	6,024	
Birds/hour	<b>168.5</b>	<b>132.4</b>	<b>96.8</b>	<b>197.8</b>	<b>342.7</b>	<b>261.8</b>	<b>154.4</b>	<b>274.7</b>	<b>171.2</b>	<b>186.8</b>	<b>264.5</b>	<b>117.4</b>	<b>214.5</b>	<b>152.9</b>	

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Greater White-fronted Goose <i>[Anser albifrons]</i>	GWFG	counted Birds/hour													1 0.023		
Snow Goose <i>[Chen caerulescens]</i>	SNGO	counted Birds/hour		1 0.044		1 0.033	2 0.098					1 0.038	4 0.167	cw	2 0.046		
Cackling Goose <i>[Branta hutchinsii]</i>	CACG	counted Birds/hour									1 0.026	5 0.188		2 0.042	5 0.116		
Canada Goose <i>[Branta canadensis]</i>	CAGO	counted Birds/hour	190 11.875	151 6.565	310 4.026	242 8.067	170 8.293	207 7.527	342 7.558	392 11.121	170 4.331	175 6.579	211 8.792	124 2.611	235 5.441	119 3.017	123 1.804
Mute Swan <i>[Cygnus olor]</i>	MUSW	counted Birds/hour	1 0.063														
Trumpeter Swan <i>[Cygnus buccinator]</i>	TRSW	counted Birds/hour	9 0.563	4 0.174	8 0.104	7 0.233	11 0.537	14 0.509	10 0.221	4 0.114	6 0.153	2 0.075	6 0.250	7 0.147	24 0.556	20 0.507	13
Wood Duck <i>[Aix sponsa]</i>	WODU	counted Birds/hour				2 0.067										1 0.025	
Gadwall <i>[Anas strepera]</i>	GADW	counted Birds/hour							8 0.177		cw	6 0.226	6 0.250	8 0.168	2 0.046		
Eurasian Wigeon <i>[Anas penelope]</i>	EUWI	counted Birds/hour	cw	1 0.044	1 0.013			1 0.036			cw	2 0.075	2 0.083		2 0.046	2 0.051	
American Wigeon <i>[Anas americana]</i>	AMWI	counted Birds/hour	23 1.438	446 19.391	596 7.740	137 4.567	426 20.781	341 12.400	320 7.072	229 6.497	114 2.905	419 15.752	788 32.833	293 6.168	317 7.340	243 6.161	165 2.419
Mallard <i>[Anas platyrhynchos]</i>	MALL	counted Birds/hour	73 4.563	35 1.522	81 1.052	249 8.300	160 7.805	314 11.418	138 3.050		46 1.172	113 4.248	224 9.333	101 2.126	211 4.885	277 7.023	185 2.713
Northern Shoveler <i>[Anas clypeata]</i>	NOSH	counted Birds/hour									cw						
Northern Pintail <i>[Anas acuta]</i>	NOPI	counted Birds/hour			cw	2 0.067			2 0.044				1 0.042				
Green-winged Teal <i>[Anas crecca]</i>	GWTE	counted Birds/hour	6 0.375	16 0.696				2 0.073	4 0.088	7 0.199	cw		11 0.458	2 0.042	cw	1 0.025	1 0.015
Canvasback	CANV	counted	3												6		

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<i>[Aythya valisineria]</i>		Birds/hour	0.188												0.139		
Ring-necked Duck <i>[Aythya collaris]</i>	RNDU	counted Birds/hour	35 2.188	69 3.000	45 0.584	5 0.167	39 1.902	155 5.636	68 1.503	36 1.021	31 0.790	131 4.925	8 0.333	169 3.558	41 0.949	62 1.572	74 1.085
Greater Scaup <i>[Aythya marila]</i>	GRSC	counted Birds/hour	cw		2 0.026	20 0.667		12 0.436	1 0.022	2 0.057	26 0.662	10 0.376	3 0.125	3 0.063	3 0.069	17 0.431	9 0.132
Lesser Scaup <i>[Aythya affinis]</i>	LESC	counted Birds/hour	cw	12 0.522	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	
Harlequin Duck <i>[Histrionicus histrionicus]</i>	HADU	counted Birds/hour	42 2.625	29 1.261	48 0.623	28 0.933	48 2.342	62 2.255	44 0.972	45 1.277	74 1.885	58 2.181	45 1.875	31 0.653	60 1.389	48 1.217	53 0.777
Surf Scoter <i>[Melanitta perspicillata]</i>	SUSC	counted Birds/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 4.502	149 3.779	130 1.906
White-winged Scoter <i>[Melanitta fusca]</i>	WWSC	counted Birds/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 0.513
Black Scoter <i>[Melanitta americana]</i>	BLSC	counted Birds/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	
Long-tailed Duck <i>[Clangula hyemalis]</i>	LTDU	counted Birds/hour								cw			cw			2 0.051	
Bufflehead <i>[Bucephala albeola]</i>	BUFF	counted Birds/hour	121 7.563	41 1.783	139 1.805	248 8.267	171 8.342	119 4.327	165 3.646	77 2.184	130 3.312	125 4.699	117 4.875	100 1.194	81 1.356	90 2.282	163 2.390
Common Goldeneye <i>[Bucephala clangula]</i>	COGO	counted Birds/hour	40 2.500	28 1.217	38 0.494	37 1.233	55 2.683	53 1.927	58 1.282		68 1.733	67 2.519	47 1.958	66 0.788	67 1.121	26 0.659	44 0.645
Barrow's Goldeneye <i>[Bucephala islaica]</i>	BAGO	counted Birds/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 2.181	51 2.125	46 0.549	29 0.485	54 1.369	21 0.308
unidentified goldeneye <i>[Bucephala sp]</i>		counted Birds/hour															3 0.044
Hooded Merganser <i>[Lophodytes cucullatus]</i>	HOME	counted Birds/hour	19 1.188	4 0.174	58 0.753	20 0.667	16 0.781	7 0.255	11 0.243	9 0.255	24 0.612	30 1.128	24 1.000	80 0.955	21 0.351	58 1.471	57 0.836
Common Merganser <i>[Mergus merganser]</i>	COME	counted Birds/hour	13 0.813	24 1.044	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 1.719	111 1.858	126 3.195	63 0.924
Red-breasted Merganser <i>[Mergus serrator]</i>	RBME	counted Birds/hour	5 0.313	10 0.435	37 0.481	13 0.433	26 1.268	15 0.546	57 1.260	14 0.397	38 0.968	18 0.677	36 1.500	32 0.382	32 0.536	31 0.786	8 0.117
Ruddy Duck <i>[Oxyura jamaicensis]</i>	RUDU	counted Birds/hour	1 0.063								3 0.076						
duck sp. <i>[Anatinae]</i>		counted Birds/hour				110 3.667			8 0.177								
Ruffed Grouse <i>[Bonanus umbellus]</i>	RUGR	counted Birds/hour															1 0.015
Ring-necked Pheasant <i>[Phasianus colchicus]</i>	RNEP	counted Birds/hour								1 0.028							

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Red-throated Loon [ <i>Gavia stellata</i> ]	RTLO	counted Birds/hour													1 0.017		
Pacific Loon [ <i>Gavia pacifica</i> ]	PALO	counted Birds/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 0.887	4 0.059
Common Loon [ <i>Gavia immer</i> ]	COLO	counted Birds/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	50 1.268	18 0.264
loon sp. [ <i>Gavia</i> ]		group counted: Birds/hour					6 0.293								4 0.067		1 0.015
Pied-billed Grebe [ <i>Podilymbus podiceps</i> ]	PBGR	counted Birds/hour	2 0.125	1 0.044	2 0.026		1 0.049				5 0.127	1 0.038	3 0.125	14 0.167	4 0.067	27 0.685	25 0.367
Horned Grebe [ <i>Podiceps auritus</i> ]	HOGR	counted Birds/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 0.790	35 1.458	11 0.131	34 0.569	95 2.409	8 0.117
Red-necked Grebe [ <i>Podiceps grisegena</i> ]	RNGR	counted Birds/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 0.227	cw	43 1.090	5 0.073
Eared Grebe [ <i>Podiceps nigricollis</i> ]	EAGR	counted Birds/hour													1 0.017		3 0.044
Western Grebe [ <i>Aechmophorus occidentalis</i> ]	WEGR	counted Birds/hour	15 0.938		37 0.481	1 0.033	1 0.049		4 0.088				1 0.042	cw	3 0.050	30 0.761	2 0.029
grebe sp. [ <i>Podicipedidae</i> ]		group counted Birds/hour	1 0.063			1 0.033	2 0.098	2 0.073			1 0.026	1 0.038	0.000		1 0.017	6 0.152	0.000
Brandt's Cormorant [ <i>Phalacrocorax penicillatus</i> ]	BRCO	counted Birds/hour	2 0.125		2 0.026	1 0.033	2 0.098		4 0.088			cw	1 0.038		1 0.012	cw	
Double-crested Cormorant [ <i>Phalacrocorax auritus</i> ]	DCCO	counted Birds/hour	76 4.750	38 1.652	89 1.156	32 1.067	36 1.756	19 0.691	48 1.061	107 3.036	22 0.561	26 0.977	93 3.875	30 0.358	69 1.155	65 1.648	16 0.235
Pelagic Cormorant [ <i>Phalacrocorax pelagicus</i> ]	PECO	counted Birds/hour	23 1.438	10 0.435	27 0.351	21 0.700	11 0.537	14 0.509	39 0.862	25 0.709	31 0.790	41 1.541	34 1.417	28 0.334	24 0.402	36 0.913	18 0.264
cormorant sp. [ <i>Phalacrocorax</i> ]		group counted Birds/hour	3 0.188		3 0.039	1 0.033									8 0.134	13 0.330	5 0.073
Great Blue Heron (Blue form) [ <i>Ardea herodias</i> ]	GBHE	counted Birds/hour	10 0.625	5 0.217	17 0.221	6 0.200	12 0.585	24 0.873	18 0.398	11 0.312	6 0.153	7 0.263	20 0.833	5 0.060	12 0.201	23 0.583	4 0.059
Turkey Vulture [ <i>Cathartes aura</i> ]	TUVU	counted Birds/hour	cw														
Osprey [ <i>Paion haliaetus</i> ]	OSPR	counted Birds/hour					1 0.049									cw	
Bald Eagle [ <i>Haliaeetus leucocephalus</i> ]	BAEA	counted Birds/hour	56 3.500	22 0.957	37 0.481	38 1.267	101 4.927	34 1.236	68 1.503	65 1.844	69 1.758	76 2.857	61 2.542	34 0.406	134 2.243	38 0.964	64 0.938
Northern Harrier [ <i>Circus cyaneus</i> ]	NOHA	counted Birds/hour						1 0.036							1 0.017		
Sharp-shinned Hawk [ <i>Accipiter striatus</i> ]	SSHA	counted Birds/hour		1 0.044	cw	1 0.033		1 0.036	2 0.044			3 0.076	2 0.075	4 0.167	3 0.036	2 0.033	4 0.101

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Cooper's Hawk <i>[Accipiter cooperii]</i>	COHA	counted Birds/hour	1 0.063		1 0.013			cw 0.022	1				1 0.042	1 0.012			
Northern Goshawk <i>[Accipiter gentilis]</i>	HOGO	counted Birds/hour		1 0.044	cw						cw		1 0.042			1 0.025	
Red-tailed Hawk <i>[Buteo jamaicensis]</i>	RTHA	counted Birds/hour	2 0.125	1 0.044	3 0.039	3 0.100	3 0.146	1 0.036	5 0.111	2 0.057	3 0.076	3 0.113	5 0.208	1 0.012	3 0.050	6 0.152	4 0.059
Rough-legged Hawk <i>[Buteo lagopus]</i>	RLHA	counted Birds/hour						cw									
Golden Eagle <i>[Aquila chrysaetos]</i>	GOEA	counted Birds/hour		cw	2 0.026			cw									
Merlin <i>[Falco columbarius]</i>	MERL	counted Birds/hour			2 0.026	1 0.033	1 0.049			2 0.057	cw		1 0.042	1 0.012	cw	3 0.076	
Gyr Falcon <i>[Falco rusticolus]</i>	GYRF	counted Birds/hour					1 0.049								cw		
Peregrine Falcon <i>[Falco peregrinus]</i>	PEFA	counted Birds/hour							1 0.022		1 0.026						
American Coot <i>[Fulica americana]</i>	AMCO	counted Birds/hour	3 0.188		2 0.026	3 0.100	4 0.195	1 0.036	1 0.022	cw	6 0.153			7 0.084	26 0.435	67 1.699	38 0.557
Killdeer <i>[Charadrius vociferus]</i>	KILL	counted Birds/hour	1 0.063	25 1.087	34 0.442	3 0.100	17 0.829		14 0.309	18 0.511	35 0.892	16 0.602	39 1.625	2 0.024	12 0.201	12 0.304	5 0.073
Black Oystercatcher <i>[Haematopus bachmani]</i>	BLOY	counted Birds/hour	2 0.125		6 0.078	2 0.067		6 0.218	31 0.685	14 0.397	38 0.968	16 0.602	22 0.917	29 0.346	19 0.318	24 0.609	27 0.396
Spotted Sandpiper <i>[Actitis macularia]</i>	SOSA	counted Birds/hour	1 0.063														
Greater Yellowlegs <i>[Tringa melanoleuca]</i>	GRYE	counted Birds/hour								1 0.028							
Black Turnstone <i>[Arenaria melanocephala]</i>	BLTU	counted Birds/hour	2 0.125	13 0.565	12 0.156	15 0.500	11 0.537	26 0.946	54 1.193	36 1.021	42 1.070	17 0.639	44 1.833	14 0.167	29 0.485	10 0.254	27 0.396
Western Sandpiper <i>[Calidris mauri]</i>	WESA	counted Birds/hour		2 0.087													
Least Sandpiper <i>[Calidris minutilla]</i>	LESA	counted Birds/hour						5 0.182									
Dunlin <i>[Calidris alpina]</i>	DUNL	counted Birds/hour					8 0.390	5 0.182	4 0.088		14 0.357	13 0.489	5 0.208				
Wilson's Snipe <i>[Capella gallinago]</i>	WISN	counted Birds/hour											1 0.042				1 0.015
Bonaparte's Gull <i>[Chroicocephalus]</i>	BOGU	counted Birds/hour		30 1.304	2 0.026				11 0.243		55 1.401						
Mew Gull	MEGU	counted	188	881	270	799	711	765	422	2354	973	497	510	169	650	583	269

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<i>[Larus canus]</i>		Birds/hour	11.750	38.304	3.507	26.633	34.683	27.818	9.326	66.780	24.790	18.684	21.250	2.018	10.879	14.782	3.944
California Gull <i>[Larus californicus]</i>	CAGU	counted Birds/hour	42 2.625			8 0.267	1 0.049	cw		5 0.142	1 0.026		2 0.083	3 0.036	22 0.368		79 1.158
Herring Gull <i>[Larus argentatus]</i>	HERG	counted Birds/hour			3 0.039	3 0.100	3 0.146		2 0.044		8 0.204	4 0.150	1 0.042				8 0.117
Thayer's Gull <i>[Larus thayeri]</i>	THGU	counted Birds/hour	1 0.063		100 1.299	72 2.400	278 13.561	1510 54.909	538 11.890	155 4.397	294 7.490	69 2.594	302 12.583	206 2.460	2543 42.561	158 4.006	147 2.155
Western Gull <i>[Larus occidentalis]</i>	WEGU	counted Birds/hour							2 0.044								
Glaucous-winged Gull <i>[Larus glaucescens]</i>	GWGU	counted Birds/hour	155 9.688	98 4.261	210 2.727	231 7.700	234 11.415	241 8.764	766 16.928	491 13.929	370 9.427	433 16.278	408 17.000	332 3.964	335 7.756	153 3.879	204 2.991
Glaucous-winged Gull X Western Gull (hybrid)		group counted: Birds/hour				6 0.200					4 0.102				5 0.084	1 0.025	
gull sp. <i>[Larus]</i>		group counted Birds/hour	70 4.375		8 0.104	176 5.867	340 16.585	56 2.036	320 7.072	3300 93.617	202 5.147	3 0.113	2 0.083	194 2.316	143 2.393	225 5.705	273 4.003
Common Murre <i>[Uria aalge]</i>	COMU	counted Birds/hour		cw		2 0.067							cw			1 0.025	
Pigeon Guillemot <i>[Cepphus columba]</i>	PIGU	counted Birds/hour								cw							
Marbled Murrelet <i>[Brachyramphus]</i>	MAMU	counted Birds/hour	16 1	3 0.1304	2 0.026	2 0.0667	4 0.1951		7 0.1547				2 0.083333	2 0.02388			42 1.0649
Ancient Murrelet <i>[Synthliboramphus antiquus]</i>	ANMU	counted Birds/hour				6 0.200				cw	44 1.121		cw	2 0.024	3 0.050	522 13.235	
Rhinoceros Auklet <i>[Cerorhinca monocerata]</i>	RHAU	counted Birds/hour											cw				
Rock Pigeon <i>[Columba livia]</i>	ROPI	counted Birds/hour	99 6.188	26 1.130	250 3.247	81 2.700	242 11.805	129 4.691	53 1.171		60 1.529	53 1.993	95 3.958	66 0.788	115 1.925	239 6.060	139 2.038
Eurasian Collared Dove <i>[Streptopelia decaocto]</i>	ECDO	counted Birds/hour										1 0.038			10 0.167	2 0.051	20 0.293
Great Horned Owl <i>[Bubo virginianus]</i>	GHOW	counted Birds/hour			cw		1 0.049								2 0.033		
Northern Pygmy-Owl <i>[Glaucidium gnoma]</i>	NPOW	counted Birds/hour			1 0.013								1 0.042		1 0.017	1 0.025	
Barred Owl <i>[Strix varia]</i>	BAOW	counted Birds/hour			1 0.013	1 0.033	1 0.049	1 0.036	1 0.022	1 0.028	2 0.051		1 0.042	1 0.012	4 0.067	4 0.101	3 0.044
Anna's Hummingbird <i>[Calypte anna]</i>	ANHU	counted Birds/hour		2 0.087	1 0.013	2 0.067	4 0.195	4 0.146	2 0.044	4 0.114	11 0.280	7 0.263	9 0.375	23 0.275	31 0.519	33 0.837	12 0.176
Costa's Hummingbird <i>[Calypte costae]</i>	COHU	counted Birds/hour															1 0.025

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Rufous Hummingbird <i>[Selasphorus ruber]</i>	RUHU	counted Birds/hour												1 0.012			
Belted Kingfisher <i>[Ceryle alcyon]</i>	BEKI	counted Birds/hour	3 0.188	5 0.217	9 0.117	4 0.133	7 0.342		3 0.066	7 0.199	8 0.204	4 0.150	12 0.500		7 0.117	6 0.152	3 0.044
Red-breasted Sapsucker <i>[Sphyrapicus ruber]</i>	RBSA	counted Birds/hour									3 0.076		3 0.125	2 0.024	21 0.351	4 0.101	
Downy Woodpecker <i>[Picoides pubescens]</i>	DOWO	counted Birds/hour	2 0.125		3 0.039	1 0.033	1 0.049	2 0.073	4 0.088	1 0.028	3 0.076		3 0.125	3 0.036	3 0.050	10 0.254	
Hairy Woodpecker <i>[Picoides villosus]</i>	HAWO	counted Birds/hour	4 0.250	1 0.044	3 0.039				6 0.133	cw	2 0.051	7 0.263	6 0.250	3 0.036	5 0.084	10 0.254	
Northern Flicker <i>[Colaptes auratus]</i>	NOFL	counted Birds/hour			19 0.247	11 0.367	18 0.878	13 0.473		16 0.454	38 0.968	32 1.203	57 2.375	36 0.421	41 0.686	51 1.293	19 0.279
Northern (Red-shafted) Flicker <i>[Colaptes auratus]</i>		group counte Birds/hour	11 0.688	2 0.087	4 0.052			14 0.509	27 0.597								
Pileated Woodpecker <i>[Dryocopus pileatus]</i>	PIWO	counted Birds/hour	2 0.125	1 0.044	2 0.026		2 0.098		4 0.088	2 0.057	2 0.051		1 0.042	2 0.024	4 0.067	4 0.101	
Northern Shrike <i>[Lanius excubitor]</i>	NOSH	counted Birds/hour								cw					1 0.017	3 0.076	
Hutton's Vireo <i>[Vireo huttoni]</i>	HUVI	counted Birds/hour	cw	1 0.044	cw												
Steller's Jay <i>[Cyanocitta stelleri]</i>	STJA	counted Birds/hour	20 1.250		56 0.727	2 0.067	42 2.049	18 0.655	50 1.105	40 1.135	32 0.815	29 1.090	36 1.500	119 1.421	53 0.887	60 1.521	2 0.029
Northwestern Crow <i>[Corvus caurinus]</i>	NWCR	counted Birds/hour	161 10.063	69 3.000	243 3.156	290 9.667	183 8.927	293 10.655	197 4.354	278 7.887	156 3.975	124 4.662	195 8.125	180 2.149	194 3.247	171 4.336	68 0.997
Common Raven <i>[Corvus corax]</i>	CORA	counted Birds/hour	27 1.688	14 0.609	44 0.571	10 0.333	48 2.342	58 2.109	72 1.591	52 1.475	75 1.911	135 5.075	115 4.792	130 1.552	122 2.042	109 2.764	112 1.642
Chestnut-backed Chickadee <i>[Poecile rufescens]</i>	CBCH	counted Birds/hour	89 5.563	25 1.087	90 1.169	160 5.333	67 3.268	54 1.964	89 1.967	45 1.277	122 3.108	95 3.571	181 7.542	115 1.373	51 0.854	76 1.927	32 0.469
Bushtit <i>[Psaltriparus minimus]</i>	BUSH	counted Birds/hour								2 0.057		10 0.376		1 0.012			8 0.117
Red-breasted Nuthatch <i>[Sitta canadensis]</i>	RBNU	counted Birds/hour			2 0.026	5 0.167	5 0.244	10 0.364	6 0.133	5 0.142	10 0.255	1 0.038	8 0.333	6 0.072	5 0.084	5 0.127	3 0.044
Brown Creeper <i>[Certhia americana]</i>	BRCR	counted Birds/hour			2 0.026		1 0.049		7 0.155	4 0.114	1 0.026	2 0.075		3 0.036	2 0.033	4 0.101	
Bewick's Wren <i>[Thryomanes bewickii]</i>	BEWR	counted Birds/hour	1 0.063				1 0.049							1 0.012			
Pacific Wren <i>[Troglodytes pacificus]</i>	PAWR	counted Birds/hour	27 1.688	9 0.391	33 0.429	21 0.700	31 1.512	8 0.291	41 0.906	9 0.255	20 0.510	10 0.376	21 0.875	18 0.215	31 0.519	14 0.355	16 0.235
American Dipper <i>[Cinclus mexicanus]</i>	AMDI	counted Birds/hour	1 0.063	1 0.044	2 0.026		1 0.049	1 0.036		1 0.028	1 0.026					2 0.051	

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Golden-crowned Kinglet [Regulus satrapa]	GCKI	counted Birds/hour	40 2.500	24 1.044	234 3.039	219 7.300	157 7.659	58 2.109	126 2.785	65 1.844	173 4.408	192 7.218	154 6.417	121 1.445	75 1.255	63 1.597	87 1.276
Ruby-crowned Kinglet [Regulus caleula]	RUKI	counted Birds/hour	3 0.188	2 0.087	323 4.195	1 0.033	30 1.463	3 0.109	22 0.486		14 0.357	10 0.376	42 1.750	12 0.143	19 0.318	8 0.203	3 0.044
kinglet sp [Regulus sp]		counted Birds/hour														6 0.152	
Hermit Thrush [Catharus guttatus]	HETH	counted Birds/hour			1 0.013		1 0.049						3 0.125		4 0.067	1 0.025	1 0.015
American Robin [Turdus migratorius]	AMRO	counted Birds/hour	12 0.750	3 0.130	9 0.117	11 0.367	4 0.195	34 1.236	13 0.287	cw	3 0.076	82 3.083	29 1.208	23 0.275	30 0.502	21 0.533	6 0.088
Varied Thrush [Ixoreus naevius]	VATH	counted Birds/hour	17 1.063	2 0.087	22 0.286	2 0.067	22 1.073	54 1.964	225 4.972	3 0.085	79 2.013	46 1.729	29 1.208	135 1.612	252 4.218	20 0.507	43 0.630
European Starling [Sturnus vulgaris]	EUST	counted Birds/hour	163 10.188	190 8.261	1973 25.623	992 33.067	1081 52.732	698 25.382	478 10.564	897 25.447	461 11.745	175 6.579	543 22.625	528 6.304	824 13.791	657 16.658	188 2.757
Bohemian Waxwing [Bombycilla garrulus]	BOWA	counted Birds/hour											1 0.042	cw			
Orange-crowned Warbler [Oreothlypis celata]	OCWA	counted Birds/hour						1 0.036					1 0.042				
Townsend's Warbler [Dendroica townsendi]	TOWA	counted Birds/hour						cw									
Wilson's Warbler [Cardellina pusilla]	WIWA	counted Birds/hour														1 0.025	
Spotted Towhee [Pipilo maculatus]	SPTO	counted Birds/hour	20 1.250	13 0.565	70 0.909	29 0.967	104 5.073	116 4.218	120 2.652		144 3.669	151 5.677	176 7.333	114 1.361	179 2.996	131 3.322	26 0.381
Savannah Sparrow [Passerculus sawichensis ]	SASP	counted Birds/hour										4 0.150					
Chipping Sparrow [Spizella passerina]	CHSP	counted Birds/hour		1 0.044													
Fox Sparrow [Passerella iliaca]	FOSP	counted Birds/hour	13 0.813	2 0.087	86 1.117	21 0.700	115 5.610	73 2.655	152 3.359	29 0.823	205 5.223	186 6.993	233 9.708	144 1.719	141 2.360	117 2.967	38 0.557
Song Sparrow [Melospiza melodia]	SOSP	counted Birds/hour	37 2.313	34 1.478	96 1.247	29 0.967	140 6.829	137 4.982	162 3.580	47 1.333	192 4.892	118 4.436	179 7.458	137 1.636	133 2.226	99 2.510	32 0.469
Lincoln's Sparrow [Melospiza lincolni]	LISP	counted Birds/hour					7 0.342							1 0.012		1 0.025	
White-throated Sparrow [Zonotrichia albicollis]	WTSP	counted Birds/hour		7 0.304													1 0.015
White-crowned Sparrow [Zonotrichia leucophrys]	WCSP	counted Birds/hour			cw	5 0.167	2 0.098	4 0.146	7 0.155		6 0.153	16 0.602		2 0.024	1 0.017	1 0.025	7 0.103
Golden-crowned Sparrow		counted		3	cw	3	25	10	12		25	29	22	39	10	11	11

Species	CODE	VARIABLE	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<i>[Zonotrichia atricapilla]</i>		Birds/hour		0.130		0.100	1.220	0.364	0.265		0.637	1.090	0.917	0.466	0.167	0.279	0.161
Dark-eyed (Oregon) Junco <i>[Junco hyemalis]</i>	DEJU	counted Birds/hour	113 7.063	160 6.957	221 2.870	336 11.200	562 27.415	432 15.709	405 8.950	160 4.539	384 9.783	354 13.308	349 14.542	449 5.361	684 11.448	261 6.618	277 4.062
Dark-eyed (Slate-colored) Junco		group counte Birds/hour	2 0.125													1 0.025	
Red-winged Blackbird <i>[Agelaius phoeniceus]</i>	RWBI	counted Birds/hour	cw	8 0.348	7 0.091		1 0.049	89 3.236	8 0.177		2 0.051	8 0.301	13 0.542				
Western Meadowlark <i>[Sturnella neglecta]</i>	WEME	counted Birds/hour							3 0.066			6 0.226		cw	2 0.033		
Brewer's Blackbird <i>[Euphagus cyanocephalus]</i>	BRBL	counted Birds/hour	45 2.813	40 1.739	390 5.065	100 3.333	214 10.439	62 2.255	205 4.530	42 1.192	1 0.026	88 3.308	120 5.000	53 0.633	75 1.255	7 0.178	102 1.496
Pine Grosbeak <i>[Pinicola enucleator]</i>	PIGR	counted Birds/hour			1 0.013												
Purple Finch <i>[Carpodacus purpureus]</i>	PUFI	counted Birds/hour	1 0.063	2 0.087	44 0.571	26 0.867	61 2.976	24 0.873	8 0.177	16 0.454	23 0.586	24 0.902	45 1.875	70 0.836	28 0.469	51 1.293	
House Finch <i>[Carpodacus mexicanus]</i>	HOFI	counted Birds/hour	1 0.063	15 0.652	42 0.546	27 0.900	29 1.415	31 1.127	36 0.796	15 0.426	34 0.866	41 1.541	11 0.458	28 0.334	23 0.385	37 0.938	5 0.073
Red Crossbill <i>[Loxia curvirostra]</i>	RECR	counted Birds/hour	5 0.313					28 1.018			18 0.459	10 0.376		48 0.573	8 0.134	1 0.025	
Common Redpoll <i>[Acanthis flammea]</i>	CORE	counted Birds/hour			cw												
Pine Siskin <i>[Spinus pinus]</i>	PISI	counted Birds/hour	171 10.688		46 0.597	286 9.533	200 9.756	83 3.018	6 0.133		1086 27.669	2 0.075	35 1.458	408 4.872	310 5.188	69 1.750	1800 26.393
Evening Grosbeak <i>[Coccothraustes vespertinus]</i>	EVGR	counted Birds/hour					2 0.098	3 0.109	13 0.287		cw				2 0.033	9 0.228	
House Sparrow <i>[Passer domesticus]</i>	HOSP	counted Birds/hour	3 0.188	4 0.174		9 0.300	10 0.488	32 1.164	9 0.199	20 0.567	30 0.764	2 0.075	15 0.625	35 0.418	26 0.435	12 0.304	3 0.044