

Demezas and Robinson, Characterizing the influence of domestic cats on birds with wildlife rehabilitation center data

Supplementary material

Tables

Table S1. Percentages and total numbers (N) of admissions for each species at each wildlife rehabilitation center, Turtle Ridge, Salem, Oregon USA, and Wildlife Images, Grants Pass, Oregon USA.

Species		Percent (N) Total Admissions for Center		
Common Name	Scientific Name	Turtle Ridge	Wildlife Images	Total
Cackling Goose	<i>Branta hutchinsii</i>	1.06 (35)	0.00 (0)	0.55 (35)
Canada Goose	<i>Branta canadensis</i>	1.58 (52)	4.19 (128)	2.84 (180)
Wood Duck	<i>Aix sponsa</i>	0.06 (2)	0.66 (20)	0.35 (22)
American Wigeon	<i>Mareca americana</i>	0.03 (1)	0.00 (0)	0.02 (1)
Mallard	<i>Anas platyrhynchos</i>	10.96 (361)	3.70 (113)	7.47 (474)
Ring-necked Duck	<i>Aythya collaris</i>	0.09 (3)	0.10 (3)	0.09 (6)
Lesser Scaup	<i>Aythya affinis</i>	0.09 (3)	0.03 (1)	0.06 (4)
Harlequin Duck	<i>Histrionicus histrionicus</i>	0.03 (1)	0.00 (0)	0.02 (1)
Bufflehead	<i>Bucephala albeola</i>	0.00 (0)	0.03 (1)	0.02 (1)
Common Merganser	<i>Mergus merganser</i>	0.00 (0)	0.03 (1)	0.02 (1)
Ruddy Duck	<i>Oxyura jamaicensis</i>	0.03 (1)	0.00 (0)	0.02 (1)
Mountain Quail	<i>Oreortyx pictus</i>	0.67 (22)	0.07 (2)	0.36 (24)
California Quail	<i>Callipepla californica</i>	0.27 (9)	1.97 (60)	1.09 (69)
Wild Turkey	<i>Meleagris gallopavo</i>	0.18 (6)	3.37 (103)	1.72 (109)
Ruffed Grouse	<i>Bonasa umbellus</i>	0.03 (1)	0.03 (1)	0.03 (2)
Sooty Grouse	<i>Dendragapus fuliginosus</i>	0.00 (0)	0.03 (1)	0.02 (1)
Ring-necked Pheasant	<i>Phasianus colchicus</i>	0.12 (4)	0.07 (2)	0.09 (6)
Common Quail	<i>Coturnix coturnix</i>	0.00 (0)	0.03 (1)	0.02 (1)
Pied-billed Grebe	<i>Podilymbus podiceps</i>	0.03 (1)	0.00 (0)	0.02 (1)
Horned Grebe	<i>Podiceps auritus</i>	0.00 (0)	0.07 (2)	0.03 (2)
Eared Grebe	<i>Podiceps nigricollis</i>	0.00 (0)	0.03 (1)	0.02 (1)
Western Grebe	<i>Aechmophorus occidentalis</i>	0.12 (4)	0.20 (6)	0.16 (10)
Rock Pigeon	<i>Columba livia</i>	4.34 (143)	2.98 (91)	3.69 (234)
Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	3.60 (118)	3.60 (110)	3.60 (228)
Mourning Dove	<i>Zenaida macroura</i>	3.4 (114)	4.78 (146)	4.20 (260)
Common Nighthawk	<i>Chordeiles minor</i>	0.00 (0)	0.16 (5)	0.08 (5)
Common Poorwill	<i>Phalaenoptilus nuttallii</i>	0.03 (1)	0.10 (3)	0.06 (4)
Vaux's Swift	<i>Chaetura vauxi</i>	2.95 (97)	0.79 (24)	1.91 (121)
Anna's Hummingbird	<i>Calypte anna</i>	1.88 (62)	0.66 (20)	1.29 (82)
Rufous Hummingbird	<i>Selasphorus rufus</i>	0.33 (11)	1.28 (39)	0.79 (50)
Sora	<i>Porzana carolina</i>	0.00 (0)	0.03 (1)	0.02 (1)
Virginia Rail	<i>Rallus limicola</i>	0.00 (0)	0.10 (3)	0.05 (3)
American Coot	<i>Fulica americana</i>	0.03 (1)	0.07 (2)	0.05 (3)
Killdeer	<i>Charadrius vociferus</i>	0.62 (21)	0.26 (8)	0.45 (29)
Wilson's Snipe	<i>Gallinago delicata</i>	0.06 (2)	0.16 (5)	0.11 (7)
Spotted Sandpiper	<i>Actitis macularius</i>	0.00 (0)	0.06 (2)	0.04 (2)

Common Murre	<i>Uria aalge</i>	0.15 (5)	0.07 (2)	0.11 (7)
Mew Gull	<i>Larus canus</i>	0.03 (1)	0.00 (0)	0.02 (1)
Western Gull	<i>Larus occidentalis</i>	0.46 (15)	0.07 (2)	0.27 (17)
California Gull	<i>Larus californicus</i>	0.03 (1)	0.03 (1)	0.03 (2)
Herring Gull	<i>Larus argentatus</i>	0.00 (0)	0.03 (1)	0.02 (1)
Leach's Storm-Petrel	<i>Hydrobates leucorhous</i>	0.00 (0)	0.03 (1)	0.02 (1)
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	0.06 (2)	0.03 (1)	0.05 (3)
American White Pelican	<i>Pelecanus erythrorhynchos</i>	0.00 (0)	0.07 (2)	0.03 (2)
Great Blue Heron	<i>Ardea herodias</i>	0.30 (10)	0.26 (8)	0.28 (18)
Great Egret	<i>Ardea alba</i>	0.00 (0)	0.07 (2)	0.03 (2)
Green Heron	<i>Butorides virescens</i>	0.49 (16)	1.61 (49)	1.02 (65)
Turkey Vulture	<i>Cathartes aura</i>	0.27 (9)	0.92 (28)	0.58 (37)
Osprey	<i>Pandion haliaetus</i>	0.15 (5)	0.46 (14)	0.30 (19)
Golden Eagle	<i>Aquila chrysaetos</i>	0.00 (0)	0.13 (4)	0.06 (4)
Northern Harrier	<i>Circus hudsonius</i>	0.03 (1)	0.00 (0)	0.02 (1)
Sharp-shinned Hawk	<i>Accipiter striatus</i>	0.39 (13)	0.46 (14)	0.43 (27)
Cooper's Hawk	<i>Accipiter cooperii</i>	0.46 (15)	1.11 (34)	0.77 (49)
Bald Eagle	<i>Haliaeetus leucocephalus</i>	0.24 (8)	0.26 (8)	0.25 (16)
Red-shouldered Hawk	<i>Buteo lineatus</i>	0.03 (1)	1.02 (31)	0.50 (32)
Swainson's Hawk	<i>Buteo swainsoni</i>	0.06 (2)	0.00 (0)	0.03 (2)
Red-tailed Hawk	<i>Buteo jamaicensis</i>	3.13 (103)	3.80 (116)	3.45 (219)
Rough-legged Hawk	<i>Buteo lagopus</i>	0.03 (1)	0.03 (1)	0.03 (2)
Barn Owl	<i>Tyto alba</i>	2.34 (77)	3.15 (96)	2.73 (173)
Flammulated Owl	<i>Psilosops flammeulus</i>	0.00 (0)	0.07 (2)	0.03 (2)
Western Screech-Owl	<i>Megascops kennicottii</i>	0.43 (14)	4.78 (146)	2.52 (160)
Great Horned Owl	<i>Bubo virginianus</i>	2.67 (88)	1.25 (38)	1.99 (126)
Northern Pygmy-Owl	<i>Glaucidium gnoma</i>	0.18 (6)	0.66 (20)	0.41 (26)
Spotted Owl	<i>Strix occidentalis</i>	0.00 (0)	0.13 (4)	0.06 (4)
Barred Owl	<i>Strix varia</i>	0.88 (29)	1.08 (33)	0.98 (62)
Great Gray Owl	<i>Strix nebulosa</i>	0.00 (0)	0.16 (5)	0.08 (5)
Long-eared Owl	<i>Asio otus</i>	0.00 (0)	0.03 (1)	0.02 (1)
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	0.09 (3)	0.26 (8)	0.17 (11)
Belted Kingfisher	<i>Megaceryle alcyon</i>	0.12 (4)	0.13 (4)	0.13 (8)
Acorn Woodpecker	<i>Melanerpes formicivorus</i>	0.24 (8)	1.80 (55)	0.99 (63)
Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>	0.39 (13)	0.26 (8)	0.33 (21)
Downy Woodpecker	<i>Dryobates pubescens</i>	0.06 (2)	0.13 (4)	0.09 (6)
Hairy Woodpecker	<i>Dryobates villosus</i>	0.00 (0)	0.26 (8)	0.13 (8)
Northern Flicker	<i>Colaptes auratus</i>	1.09 (36)	1.54 (47)	1.31 (83)
Pileated Woodpecker	<i>Dryocopus pileatus</i>	0.03 (1)	0.10 (3)	0.06 (4)
American Kestrel	<i>Falco sparverius</i>	1.31 (43)	0.85 (26)	1.09 (69)
Merlin	<i>Falco columbarius</i>	0.06 (2)	0.20 (6)	0.13 (8)
Peregrine Falcon	<i>Falco peregrinus</i>	0.15 (5)	0.29 (9)	0.22 (14)
Prairie Falcon	<i>Falco mexicanus</i>	0.06 (2)	0.13 (4)	0.09 (6)
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	0.00 (0)	0.13 (4)	0.06 (4)
Western Kingbird	<i>Tyrannus verticalis</i>	0.00 (0)	0.13 (4)	0.06 (4)
Western Wood-Pewee	<i>Contopus sordidulus</i>	0.03 (1)	0.00 (0)	0.02 (1)
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>	0.18 (6)	0.00 (0)	0.09 (6)

Black Phoebe	<i>Sayornis nigricans</i>	0.03 (1)	0.00 (0)	0.02 (1)
Warbling Vireo	<i>Vireo gilvus</i>	0.03 (1)	0.00 (0)	0.02 (1)
Steller's Jay	<i>Cyanocitta stelleri</i>	0.70 (23)	1.34 (41)	1.01 (64)
California Scrub-Jay	<i>Aphelocoma californica</i>	5.16 (170)	4.72 (144)	4.95 (314)
American Crow	<i>Corvus brachyrhynchos</i>	6.50 (214)	3.80 (116)	5.20 (330)
Common Raven	<i>Corvus corax</i>	0.06 (2)	1.18 (36)	0.60 (38)
Horned Lark	<i>Eremophila alpestris</i>	0.03 (1)	0.00 (0)	0.02 (1)
Tree Swallow	<i>Tachycineta bicolor</i>	0.24 (8)	1.34 (41)	0.77 (49)
Violet-green Swallow	<i>Tachycineta thalassina</i>	1.55 (51)	0.16 (5)	0.88 (56)
Barn Swallow	<i>Hirundo rustica</i>	2.64 (87)	0.39 (12)	1.56 (99)
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	0.67 (22)	0.29 (9)	0.49 (31)
Black-capped Chickadee	<i>Poecile atricapillus</i>	0.91 (30)	0.52 (16)	0.72 (46)
Chestnut-backed Chickadee	<i>Poecile rufescens</i>	0.03 (1)	0.00 (0)	0.02 (1)
Oak Titmouse	<i>Baeolophus inornatus</i>	0.00 (0)	0.29 (9)	0.14 (9)
Bushtit	<i>Psaltiriparus minimus</i>	0.36 (12)	0.00 (0)	0.19 (12)
Red-breasted Nuthatch	<i>Sitta canadensis</i>	0.15 (5)	0.00 (0)	0.08 (5)
White-breasted Nuthatch	<i>Sitta carolinensis</i>	0.12 (4)	0.13 (4)	0.13 (8)
Brown Creeper	<i>Certhia americana</i>	0.03 (1)	0.33 (10)	0.17 (11)
House Wren	<i>Troglodytes aedon</i>	0.03 (1)	0.33 (10)	0.17 (11)
Pacific Wren	<i>Troglodytes pacificus</i>	0.03 (1)	0.10 (3)	0.06 (4)
Bewick's Wren	<i>Thryomanes bewickii</i>	0.33 (11)	0.00 (0)	0.17 (11)
Golden-crowned Kinglet	<i>Regulus satrapa</i>	0.03 (1)	0.03 (1)	0.03 (2)
Ruby-crowned Kinglet	<i>Regulus calendula</i>	0.03 (1)	0.00 (0)	0.02 (1)
Western Bluebird	<i>Sialia mexicana</i>	0.06 (2)	0.72 (22)	0.38 (24)
Mountain Bluebird	<i>Sialia currucoides</i>	0.03 (1)	0.00 (0)	0.02 (1)
Swainson's Thrush	<i>Catharus ustulatus</i>	0.24 (8)	0.29 (9)	0.27 (17)
Hermit Thrush	<i>Catharus guttatus</i>	0.00 (0)	0.07 (2)	0.03 (2)
American Robin	<i>Turdus migratorius</i>	4.92 (162)	4.42 (135)	4.68 (297)
Varied Thrush	<i>Ixoreus naevius</i>	0.67 (22)	0.33 (10)	0.50 (32)
European Starling	<i>Sturnus vulgaris</i>	8.47 (279)	5.31 (162)	7.00 (441)
Cedar Waxwing	<i>Bombycilla cedrorum</i>	1.55 (51)	0.92 (28)	1.25 (79)
House Sparrow	<i>Passer domesticus</i>	2.88 (95)	2.33 (71)	2.62 (166)
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	0.33 (11)	0.03 (1)	0.19 (12)
House Finch	<i>Haemorhous mexicanus</i>	2.16 (71)	1.31 (40)	1.75 (111)
Purple Finch	<i>Haemorhous purpureus</i>	0.06 (2)	0.13 (4)	0.09 (6)
Cassin's Finch	<i>Haemorhous cassinii</i>	0.00 (0)	0.16 (5)	0.08 (5)
Pine Siskin	<i>Spinus pinus</i>	1.37 (45)	0.82 (25)	1.10 (70)
Lesser Goldfinch	<i>Spinus psaltria</i>	0.06 (2)	1.80 (55)	0.90 (57)
American Goldfinch	<i>Spinus tristis</i>	1.82 (60)	0.33 (10)	1.10 (70)
Chipping Sparrow	<i>Spizella passerina</i>	0.03 (1)	0.00 (0)	0.02 (1)
Fox Sparrow	<i>Passerella iliaca</i>	0.49 (16)	0.46 (14)	0.47 (30)
American Tree Sparrow	<i>Spizelloides arborea</i>	0.03 (1)	0.00 (0)	0.02 (1)
Dark-eyed Junco	<i>Junco hyemalis</i>	1.00 (33)	1.08 (33)	1.04 (66)
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	0.06 (2)	0.10 (3)	0.08 (5)
Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	0.15 (5)	0.26 (8)	0.20 (13)
White-throated Sparrow	<i>Zonotrichia albicollis</i>	0.00 (0)	0.03 (1)	0.02 (1)
Vesper Sparrow	<i>Poocetes gramineus</i>	0.00 (0)	0.03 (1)	0.02 (1)

Savannah Sparrow	<i>Passerculus sandwichensis</i>	0.00 (0)	0.03 (1)	0.02 (1)
Song Sparrow	<i>Melospiza melodia</i>	2.00 (66)	0.39 (12)	1.23 (78)
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	0.00 (0)	0.07 (2)	0.03 (2)
Spotted Towhee	<i>Pipilo maculatus</i>	1.43 (47)	1.05 (32)	1.25 (79)
Yellow-breasted Chat	<i>Icteria virens</i>	0.00 (0)	0.07 (2)	0.03 (2)
Western Meadowlark	<i>Sturnella neglecta</i>	0.00 (0)	0.07 (2)	0.03 (2)
Bullock's Oriole	<i>Icterus bullockii</i>	0.00 (0)	0.16 (5)	0.08 (5)
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	0.00 (0)	0.20 (6)	0.09 (6)
Brown-headed Cowbird	<i>Molothrus ater</i>	0.06 (2)	0.49 (15)	2.68 (17)
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	0.79 (26)	0.98 (30)	0.88 (56)
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	0.00 (0)	0.03 (1)	0.02 (1)
Orange-crowned Warbler	<i>Leiothlypis celata</i>	0.03 (1)	0.03 (1)	0.03 (2)
MacGillivray's Warbler	<i>Geothlypis tolmiei</i>	0.00 (0)	0.07 (2)	0.03 (2)
Common Yellowthroat	<i>Geothlypis trichas</i>	0.03 (1)	0.03 (1)	0.03 (2)
Yellow-rumped Warbler	<i>Setophaga coronata</i>	0.06 (2)	0.07 (2)	0.06 (4)
Yellow-throated Warbler	<i>Setophaga dominica</i>	0.00 (0)	0.03 (1)	0.02 (1)
Wilson's Warbler	<i>Cardellina pusilla</i>	0.03 (1)	0.03 (1)	0.03 (2)
Western Tanager	<i>Piranga ludoviciana</i>	0.09 (3)	0.92 (28)	0.49 (31)
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	0.09 (3)	1.74 (53)	0.88 (56)
Total		100 (3293)	100 (3052)	100 (6345)

Table S2. Names and characteristics of bird species included in this study. Body masses are average adult masses from Dunning (2008). Residency is classified as *migrant* for species spending only part of the year in western Oregon or *year-round* for species present in all months, even though many of those species migrate. Species that forage on or near the ground (expected to be within routine reach of cats) are indicated with Yes in the Terrestrial column; those normally found well above the ground are indicated with No. Some non-terrestrial species (e.g., finches) may forage on the ground occasionally, particularly near bird feeders. Species regularly attending bird feeders are indicated.

Species	Body mass (g)	Residency	Terrestrial	Feeder
Canada Goose	3800-4800	Year-round	Yes	No
Wood Duck	681	Year-round	Yes	No
Mallard	1095-1246	Year-round	Yes	No
California Quail	162-186	Year-round	Yes	Yes
Wild Turkey	4000-8000	Year-round	Yes	Yes
Rock Pigeon	340-369	Year-round	Yes	Yes
Eurasian Collared-Dove	146-152	Year-round	Yes	Yes
Mourning Dove	115-123	Year-round	Yes	Yes
Common Poorwill	48	Migrant	Yes	No
Vaux's Swift	17	Migrant	No	No
Anna's Hummingbird	4.5	Year-round	No	Yes
Rufous Hummingbird	3.5	Migrant	No	Yes
Virginia Rail	69-89	Migrant	Yes	No
American Coot	650	Year-round	Yes	No
Western Gull	1050	Year-round	Yes	No
Green Heron	212	Migrant	Yes	No
Cooper's Hawk	349-529	Year-round	No	No

Red-shouldered Hawk	544-670	Year-round	No	No
Barn Owl	474-566	Year-round	No	No
Western Screech-Owl	192-236	Year-round	No	No
Northern Saw-whet Owl	101-167	Year-round	No	No
Acorn Woodpecker	80	Year-round	No	Yes
<i>Sphyrapicus</i> Sapsucker	55	Year-round	No	Yes
Downy Woodpecker	27	Year-round	No	Yes
Hairy Woodpecker	79	Year-round	No	Yes
Northern Flicker	142	Year-round	Yes	Yes
Pileated Woodpecker	266-308	Year-round	No	No
American Kestrel	111-120	Year-round	No	No
Peregrine Falcon	652-977	Migrant	No	No
Prairie Falcon	560-908	Migrant	Yes	No
Ash-throated Flycatcher	28	Migrant	No	No
Pacific-slope Flycatcher	10	Migrant	No	No
Steller's Jay	128	Year-round	Yes	Yes
California Scrub-Jay	73-80	Year-round	Yes	Yes
American Crow	376-423	Year-round	Yes	Yes
Tree Swallow	21	Migrant	No	No
Violet-green Swallow	14	Migrant	No	No
Barn Swallow	16	Migrant	No	No
Cliff Swallow	21	Migrant	No	No
Black-capped Chickadee	11	Year-round	No	Yes
Bushtit	5	Year-round	No	Yes
Red-breasted Nuthatch	10	Year-round	No	Yes
White-breasted Nuthatch	21	Year-round	No	Yes
Brown Creeper	8	Year-round	No	No
House Wren	10	Migrant	Yes	No
Pacific Wren	9	Year-round	Yes	No
Bewick's Wren	10	Year-round	Yes	Yes
Golden-crowned Kinglet	6	Migrant	No	No
Western Bluebird	26	Year-round	Yes	Yes
Swainson's Thrush	0	3 Migrant	Yes	No
American Robin	78	Year-round	Yes	No
Varied Thrush	79	Migrant	Yes	Yes
European Starling	85	Year-round	Yes	Yes
Cedar Waxwing	31	Migrant	No	No
House Sparrow	28	Year-round	Yes	Yes
Evening Grosbeak	60	Migrant	No	Yes
House Finch	21	Year-round	No	Yes
Purple Finch	23	Year-round	No	Yes
Pine Siskin	12	Migrant	No	Yes

Lesser Goldfinch	9.5	Year-round	No	Yes
American Goldfinch	13	Year-round	No	Yes
Fox Sparrow	35	Migrant	Yes	Yes
Dark-eyed Junco	20	Year-Round	Yes	Yes
Golden-crowned Sparrow	32	Migrant	Yes	Yes
Vesper Sparrow	24	Migrant	Yes	No
Song Sparrow	20	Year-round	Yes	Yes
Spotted Towhee	39	Year-round	Yes	Yes
Western Meadowlark	89-112	Year-round	Yes	No
Red-winged Blackbird	39-65	Year-round	Yes	Yes
Brown-headed Cowbird	37-47	Migrant	Yes	Yes
Brewer's Blackbird	58-67	Year-round	Yes	Yes
Orange-crowned Warbler	9	Migrant	No	Yes
MacGillivray's Warbler	10	Migrant	Yes	No
Common Yellowthroat	10	Migrant	Yes	No
Yellow-rumped Warbler	12	Migrant	No	Yes
Wilson's Warbler	7	Migrant	No	No
Western Tanager	28	Migrant	No	No
Black-headed Grosbeak	42	Migrant	No	Yes

Table S3. Table of all species with at least one cat interaction record at a wildlife rehabilitation center and the percentage (N) of records occurring in urban, rural and unknown (inadequate address designation) habitats.

Species	Turtle Ridge			Wildlife Images		
	Urban	Rural	Unknown	Urban	Rural	Unknown
Canada Goose	-	-	-	0 (0)	50 (1)	50 (1)
Wood Duck	-	-	-	0 (0)	100 (5)	0 (0)
Mallard	100 (5)	0 (0)	0 (0)	28.6 (2)	57.1 (4)	14.3 (1)
California Quail	-	-	-	12.5 (1)	87.5 (7)	0 (0)
Wild Turkey	0 (0)	100 (2)	0 (0)	0 (0)	40 (2)	60 (3)
Rock Pigeon	100 (6)	0 (0)	0 (0)	57.1 (4)	0 (0)	42.9 (3)
Eurasian Collared-Dove	60.9 (14)	21.7 (5)	17.4 (4)	47.8 (11)	30.4 (7)	21.7 (5)
Mourning Dove	68 (17)	24 (6)	8 (2)	53.3 (16)	30 (9)	16.7 (5)
Common Poorwill	-	-	-	50 (1)	50 (1)	0 (0)
Vaux's Swift	100 (3)	0 (0)	0 (0)	-	-	-
Anna's Hummingbird	70 (7)	20 (2)	10 (1)	66.7 (2)	33.3 (1)	0 (0)
Rufous Hummingbird	100 (1)	0 (0)	0 (0)	33.3 (3)	33.3 (3)	33.33 (3)
Virginia Rail	-	-	-	0 (0)	100 (1)	0 (0)
American Coot	-	-	-	100 (1)	0 (0)	0 (0)
Western Gull	0 (0)	0 (0)	100 (1)	-	-	-
Green Heron	0 (0)	100 (2)	0 (0)	75 (3)	25 (1)	0 (0)
Cooper's Hawk	100 (1)	0 (0)	0 (0)	100 (1)	0 (0)	0 (0)
Red-shouldered Hawk	-	-	-	50 (1)	0 (0)	50 (1)
Barn Owl	-	-	-	0 (0)	0 (0)	100 (1)
Western Screech-Owl	-	-	-	50 (4)	50 (4)	0 (0)
Northern Saw-whet Owl	-	-	-	0 (0)	100 (2)	0 (0)
Acorn Woodpecker	100 (1)	0 (0)	0 (0)	20 (2)	70 (7)	10 (1)

Sapsuckers	100 (5)	0 (0)	0 (0)	0 (0)	66.7 (2)	33.3 (1)
Downy Woodpecker	0 (0)	100 (1)	0 (0)	-	-	-
Hairy Woodpecker	-	-	-	0 (0)	100 (3)	0 (0)
Northern Flicker	76.9 (10)	15.4 (2)	7.7 (1)	45.5 (5)	54.5 (6)	0 (0)
Pileated Woodpecker	-	-	-	0 (0)	100 (1)	0 (0)
American Kestrel	100 (2)	0 (0)	0 (0)	-	-	-
Peregrine Falcon	-	-	-	0 (0)	100 (1)	0 (0)
Prairie Falcon	-	-	-	0 (0)	0 (0)	100 (1)
Ash-throated Flycatcher	-	-	-	0 (0)	100 (1)	0 (0)
Pacific-slope Flycatcher	75 (3)	25 (1)	0 (0)	-	-	-
Steller's Jay	88.9 (8)	11.1 (1)	0 (0)	33.3 (3)	66.7 (6)	0 (0)
California Scrub-Jay	84.9 (45)***	15.1 (8)	0 (0)	51.2 (21)	22.0 (9)	26.8 (11)
American Crow	100 (12)	0 (0)	0 (0)	50 (3)	50 (3)	0 (0)
Tree Swallow	100 (1)	0 (0)	0 (0)	0 (0)	100 (2)	0 (0)
Violet-green Swallow	80 (4)	20 (1)	0 (0)	-	-	-
Barn Swallow	66.7 (2)	33.3 (1)	0 (0)	-	-	-
Cliff Swallow	0 (0)	0 (0)	100 (1)	-	-	-
Black-capped Chickadee	77.8 (7)	11.1 (1)	11.1 (1)	75 (3)	25 (1)	0 (0)
Bushtit	66.7 (2)	0 (0)	33.3 (1)	-	-	-
Red-breasted Nuthatch	100 (1)	0 (0)	0 (0)	-	-	-
White-breasted Nuthatch	100 (1)	0 (0)	0 (0)	-	-	-
Brown Creeper	-	-	-	0 (0)	100 (1)	0 (0)
House Wren	-	-	-	0 (0)	100 (1)	0 (0)
Pacific Wren	-	-	-	0 (0)	100 (2)	0 (0)
Bewick's Wren	100 (2)	0 (0)	0 (0)	-	-	-
Golden-crowned Kinglet	100 (1)	0 (0)	0 (0)	-	-	-
Western Bluebird	-	-	-	33.3 (2)	66.7 (4)	0 (0)
Swainson's Thrush	0 (0)	66.7 (2)	33.3 (1)	100 (1)	0 (0)	0 (0)
American Robin	67.4 (31)	28.3 (13)	4.3 (2)	54.5 (24)	31.8 (14)	13.6 (6)
Varied Thrush	63.6 (7)	36.4 (4)	0 (0)	0 (0)	50 (2)	50 (2)
European Starling	78.6 (22)**	17.9 (5)	3.6 (1)	83.3 (10)	8.3 (1)	8.3 (1)
Cedar Waxwing	60 (3)	20 (1)	20 (1)	66.7 (2)	0 (0)	33.3 (1)
House Sparrow	80 (12)	6.7 (1)	13.3 (2)	70 (7)	30 (3)	0 (0)
Evening Grosbeak	50 (2)	50 (2)	0 (0)	-	-	-
House Finch	80 (8)	20 (2)	0 (0)	83.3 (5)	16.7 (1)	0 (0)
Purple Finch	50 (1)	50 (1)	0 (0)	-	-	-
Pine Siskin	57.1 (4)	0 (0)	42.9 (3)	25 (1)	75 (3)	0 (0)
Goldfinches	83.3 (5)	0 (0)	16.7 (6)	80 (8)	10 (1)	10 (1)
Fox Sparrow	66.7 (6)	33.3 (3)	0 (0)	0 (0)	50 (2)	50 (2)
Dark-eyed Junco	50 (8)	43.8 (7)	6.3 (1)	50 (4)	12.5 (1)	37.5 (3)
Golden-crowned Sparrow	100 (1)	0 (0)	0 (0)	50 (2)	25 (1)	25 (1)
Vesper Sparrow	-	-	-	0 (0)	100 (1)	0 (0)
Song Sparrow	55.6 (5)	33.3 (3)	11.1 (1)	0 (0)	100 (1)	0 (0)
Spotted Towhee	40 (8)	55 (11)	5 (1)	0 (0)	75 (9)++	25 (3)
Western Meadowlark	-	-	-	-	100 (1)	0 (0)
Red-winged Blackbird	-	-	-	0 (0)	50 (1)	50 (1)
Brown-headed Cowbird	0 (0)	0 (0)	100 (1)	-	-	-
Brewer's Blackbird	33.3 (1)	66.7 (2)	0 (0)	0 (0)	0 (0)	100 (1)

Orange-crowned Warbler	100 (1)	0 (0)	0 (0)	-	-	-
MacGillivray's Warbler	-	-	-	0 (0)	100 (1)	0 (0)
Common Yellowthroat	0 (0)	100 (1)	0 (0)	0 (0)	100 (1)	0 (0)
Yellow-rumped Warbler	-	-	-	100 (1)	0 (0)	0 (0)
Wilson's Warbler	-	-	-	100 (1)	0 (0)	0 (0)
Western Tanager	50 (1)	50 (1)	0 (0)	25 (1)	75 (3)	0 (0)
Black-headed Grosbeak	100 (2)	0 (0)	0 (0)	27.3 (3)	54.5 (6)	18.2 (2)

Chi-squared test: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Fisher's Exact † $p < 0.05$, †† $p < 0.01$, ††† $p < 0.001$