

# **A Time Series Comparison of the Birds of Rithet's Bog**





## INTRODUCTION

This table compares three checklists of the birds of Rithet's Bog spanning 1993 to 2022. The original data is reduced to presence/absence and this table does not account for varying levels of effort between the different studies. It does provide a general description of changes over time, but the original checklists should be consulted for more detailed interpretation.

## TAXONOMIC REVISIONS

This table and Edmonston (2022) follows the American Ornithological Society's current Checklist of North and Middle American Birds. Some taxonomic revisions have occurred since Carson (1994) and Carson (2011) were compiled.

Rock Pigeon (*Columba livia*) was previously called Rock Dove

Short-billed Gull (*Larus brachyrhynchus*). The global Mew Gull population has been split into two species, a western North American species, the Short-billed Gull (*Larus brachyrhynchus*) and a Eurasian species, the Common Gull (*Larus canus*).

Iceland Gull (*Larus glaucoides*). The local population of the Icelandic Gull was previously considered a sub species, Thayer's Gull (*Larus glaucoides thayeri*).

Cassin's Vireo (*Vireo cassinii*) was previously called Solitary Vireo

American Crow (*Corvus brachyrhynchos*). The local population of the American Crow was previously considered a sub species, the Northwestern Crow (*Corvus brachyrhynchos caurinus*).

Eastern Towhee (*Pipilo erythrophthalmus*) was previously called Rufous-sided Towhee.

Baltimore Oriole (*Icterus galbula*) was previously called Northern Oriole.

A TIME SERIES COMPARISON OF THE BIRDS OF RITHET'S BOG				
Common Name	Scientific Name	Edmonston 2022	Carson 2011	Carson 1994
Number of Orders:		17	18	15
Number of Species:		151	165	129
<b>WATERFOWL</b>	<b>Order ANSERIFORMES</b>	18	21	18
Snow Goose	<i>Anser caerulescens</i>		+	+
Greater White-fronted Goose	<i>Anser albifrons</i>	+	+	
Cackling Goose	<i>Branta hutchinsii</i>	+		
Canada Goose	<i>Branta canadensis</i>	+	+	+
Trumpeter Swan	<i>Cygnus buccinator</i>	+	+	+
Tundra Swan	<i>Cygnus columbianus</i>		+	+
Wood Duck	<i>Aix sponsa</i>	+	+	
Blue-winged Teal	<i>Spatula discors</i>	+	+	+
Cinnamon Teal	<i>Spatula cyanoptera</i>	+	+	+
Northern Shoveler	<i>Spatula clypeata</i>	+	+	+
Gadwall	<i>Mareca strepera</i>	+	+	+
Eurasian Wigeon	<i>Mareca penelope</i>	+	+	+
American Wigeon	<i>Mareca americana</i>	+	+	+
Mallard	<i>Anas platyrhynchos</i>	+	+	+
Northern Pintail	<i>Anas acuta</i>	+	+	+
Green-winged Teal	<i>Anas crecca</i>	+	+	+
Ring-necked Duck	<i>Aythya collaris</i>	+	+	+
Lesser Scaup	<i>Aythya affinis</i>		+	
Bufflehead	<i>Bucephala albeola</i>	+	+	+
Hooded Merganser	<i>Lophodytes cucullatus</i>	+	+	+
Common Merganser	<i>Mergus merganser</i>	+	+	+
Red-breasted Merganser	<i>Mergus serrator</i>		+	+
<b>LANDFOWL</b>	<b>Order GALLIFORMES</b>	2	2	2
California Quail	<i>Callipepla californica</i>	+	+	+
Ring-necked Pheasant	<i>Phasianus colchicus</i>	+	+	+
<b>GREBES</b>	<b>Order PODICIPEDIFORMES</b>	1	1	0
Pied-billed Grebe	<i>Podilymbus podiceps</i>	+	+	
<b>PIGEONS and DOVES</b>	<b>Order COLUMBIFORMES</b>	4	3	2
Rock Pigeon	<i>Columba livia</i>	+	+	+
Band-tailed Pigeon	<i>Patagioenas fasciata</i>	+	+	+
Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	+		
Mourning Dove	<i>Zenaida macroura</i>	+	+	

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<b>NIGHTJARS</b>	<b>Order CAPRIMULGIFORMES</b>	1	1	0
Common Nighthawk	<i>Chordeiles minor</i>	+	+	
<b>SWIFTS and HUMMINGBIRDS</b>	<b>Order APODIFORMES</b>	3	4	3
Black Swift	<i>Cypseloides niger</i>		+	+
Vaux's Swift	<i>Chaetura vauxi</i>	+	+	
Anna's Hummingbird	<i>Calypte anna</i>	+	+	+
Rufous Hummingbird	<i>Selasphorus rufus</i>	+	+	+
<b>RAILS and CRANES</b>	<b>Order GRUIFORMES</b>	4	4	4
Virginia Rail	<i>Rallus limicola</i>	+	+	+
Sora	<i>Porzana carolina</i>	+	+	+
American Coot	<i>Fulica americana</i>	+	+	+
Sandhill Crane	<i>Antigone canadensis</i>	+	+	+
<b>SHOREBIRDS</b>	<b>Order CHARADRIIFORMES</b>	19	27	20
American Avocet	<i>Recurvirostra americana</i>	+		
Killdeer	<i>Charadrius vociferus</i>	+	+	+
Semipalmated Plover	<i>Charadrius semipalmatus</i>		+	+
Whimbrel	<i>Numenius phaeopus</i>		+	
Stilt Sandpiper	<i>Calidris himantopus</i>	+	+	
Dunlin	<i>Calidris alpina</i>		+	+
Baird's Sandpiper	<i>Calidris bairdii</i>	+	+	
Least Sandpiper	<i>Calidris minutilla</i>	+	+	+
Pectoral Sandpiper	<i>Calidris melanotos</i>	+	+	
Western Sandpiper	<i>Calidris mauri</i>	+	+	+
Short-billed Dowitcher	<i>Limnodromus griseus</i>	+	+	
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	+	+	+
Common Snipe	<i>Gallinago gallinago</i>			+
Wilson's Snipe	<i>Gallinago delicata</i>	+	+	
Spotted Sandpiper	<i>Actitis macularius</i>	+	+	+
Solitary Sandpiper	<i>Tringa solitaria</i>	+	+	+
Lesser Yellowlegs	<i>Tringa flavipes</i>	+	+	+
Greater Yellowlegs	<i>Tringa melanoleuca</i>	+	+	+
Wilson's Phalarope	<i>Phalaropus tricolor</i>		+	
Short-billed Gull	<i>Larus brachyrhynchus</i>	+	+	+
Ring-billed Gull	<i>Larus delawarensis</i>		+	+
California Gull	<i>Larus californicus</i>	+	+	+
Herring Gull	<i>Larus argentatus</i>		+	+

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California Gull	<i>Larus californicus</i>	+	+	+
Herring Gull	<i>Larus argentatus</i>		+	+
Iceland Gull	<i>Larus glaucooides</i>	+	+	+
Glaucous-winged Gull	<i>Larus glaucescens</i>	+	+	+
Glaucous Gull	<i>Larus hyperboreus</i>		+	+
Caspian Tern	<i>Hydroprogne caspia</i>		+	
<b>LOONS</b>	<b>order GAVIIFORMES</b>	0	1	0
Common Loon	<i>Gavia immer</i>		+	
<b>CORMORANTS</b>	<b>Order SULIFORMES</b>	1	1	1
Double-crested Cormorant	<i>Nannopterum auritum</i>	+	+	+
<b>HERONS and PELICANS</b>	<b>Order PELECANIFORMES</b>	2	2	2
Great Blue Heron	<i>Ardea herodias</i>	+	+	+
Green Heron	<i>Butorides virescens</i>	+	+	+
<b>VULTURES</b>	<b>Order CATHARTIFORMES</b>	1	1	1
Turkey Vulture	<i>Cathartes aura</i>	+	+	+
<b>HAWKS and EAGLES</b>	<b>Order ACCIPITRIFORMES</b>	8	10	7
Osprey	<i>Pandion haliaetus</i>	+	+	
Golden Eagle	<i>Aquila chrysaetos</i>	+	+	+
Northern Harrier	<i>Circus hudsonius</i>	+	+	+
Sharp-shinned Hawk	<i>Accipiter striatus</i>	+	+	+
Cooper's Hawk	<i>Accipiter cooperii</i>	+	+	+
Northern Goshawk	<i>Accipiter gentilis</i>		+	
Bald Eagle	<i>Haliaeetus leucocephalus</i>	+	+	+
Swainson's Hawk	<i>Buteo swainsoni</i>	+	+	
Red-tailed Hawk	<i>Buteo jamaicensis</i>	+	+	+
Rough-legged Hawk	<i>Buteo lagopus</i>		+	+
<b>OWLS</b>	<b>Order STRIGIFORMES</b>	3	4	1
Western Screech-Owl	<i>Megascops kennicottii</i>	+	+	
Great Horned Owl	<i>Bubo virginianus</i>	+	+	+
Barred Owl	<i>Strix varia</i>	+	+	
Short-eared Owl	<i>Asio flammeus</i>		+	
<b>KINGFISHERS</b>	<b>Order CORACIIFORMES</b>	1	1	1
Belted Kingfisher	<i>Megaceryle alcyon</i>	+	+	+
<b>WOODPECKERS</b>	<b>Order PICIFORMES</b>	5	5	4
Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>	+	+	
Downy Woodpecker	<i>Dryobates pubescens</i>	+	+	+

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Hairy Woodpecker	<i>Dryobates villosus</i>	+	+	+
Northern Flicker	<i>Colaptes auratus</i>	+	+	+
Pileated Woodpecker	<i>Dryocopus pileatus</i>	+	+	+
<b>FALCONS</b>	<b>Order FALCONIFORMES</b>	3	3	2
American Kestrel	<i>Falco sparverius</i>	+	+	
Merlin	<i>Falco columbarius</i>	+	+	+
Peregrine Falcon	<i>Falco peregrinus</i>	+	+	+
<b>PERCHING BIRDS</b>	<b>Order PASSERIFORMES</b>	75	74	61
Western Kingbird	<i>Tyrannus verticalis</i>		+	+
Olive-sided Flycatcher	<i>Contopus cooperi</i>	+	+	
Western Wood-Pewee	<i>Contopus sordidulus</i>	+	+	+
Willow Flycatcher	<i>Empidonax traillii</i>	+	+	+
Hammond's Flycatcher	<i>Empidonax hammondi</i>	+		
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>	+	+	+
Hutton's Vireo	<i>Vireo huttoni</i>	+		
Cassin's Vireo	<i>Vireo cassinii</i>	+	+	+
Warbling Vireo	<i>Vireo gilvus</i>	+	+	+
Northern Shrike	<i>Lanius borealis</i>	+	+	+
Steller's Jay	<i>Cyanocitta stelleri</i>	+	+	+
American Crow	<i>Corvus brachyrhynchos</i>	+	+	+
Common Raven	<i>Corvus corax</i>	+	+	+
Chestnut-backed Chickadee	<i>Poecile rufescens</i>	+	+	+
Eurasian Skylark	<i>Alauda arvensis</i>		+	
Tree Swallow	<i>Tachycineta bicolor</i>	+	+	
Violet-green Swallow	<i>Tachycineta thalassina</i>	+	+	+
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	+	+	+
Purple Martin	<i>Progne subis</i>	+	+	
Barn Swallow	<i>Hirundo rustica</i>	+	+	+
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	+	+	+
Bushtit	<i>Psaltriparus minimus</i>	+	+	+
Ruby-crowned Kinglet	<i>Corthylio calendula</i>	+	+	+
Golden-crowned Kinglet	<i>Regulus satrapa</i>	+	+	+
Cedar Waxwing	<i>Bombycilla cedrorum</i>	+	+	+
Red-breasted Nuthatch	<i>Sitta canadensis</i>	+	+	+
Brown Creeper	<i>Certhia americana</i>	+	+	+
Bewick's Wren	<i>Thryomanes bewickii</i>	+	+	+

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Common Name	Scientific Name	Edmonston 2022	Carson 2011	Carson 1994
House Wren	<i>Troglodytes aedon</i>	+	+	+
Pacific Wren	<i>Troglodytes pacificus</i>	+		
Winter Wren	<i>Troglodytes hiemalis</i>		+	+
Marsh Wren	<i>Cistothorus palustris</i>	+	+	+
Gray Catbird	<i>Dumetella carolinensis</i>	+	+	
European Starling	<i>Sturnus vulgaris</i>	+	+	+
Western Bluebird	<i>Sialia mexicana</i>		+	
Townsend's Solitaire	<i>Myadestes townsendi</i>		+	
Swainson's Thrush	<i>Catharus ustulatus</i>	+	+	+
Hermit Thrush	<i>Catharus guttatus</i>	+	+	+
American Robin	<i>Turdus migratorius</i>	+	+	+
Varied Thrush	<i>Ixoreus naevius</i>	+	+	+
House Sparrow	<i>Passer domesticus</i>	+	+	+
American Pipit	<i>Anthus rubescens</i>	+	+	+
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	+	+	+
House Finch	<i>Haemorhous mexicanus</i>	+	+	+
Purple Finch	<i>Haemorhous purpureus</i>	+	+	+
Common Redpoll	<i>Acanthis flammea</i>	+		
Red Crossbill	<i>Loxia curvirostra</i>	+	+	+
White-winged Crossbill	<i>Loxia leucoptera</i>	+		
Pine Siskin	<i>Spinus pinus</i>	+	+	+
American Goldfinch	<i>Spinus tristis</i>	+	+	+
Chipping Sparrow	<i>Spizella passerina</i>	+	+	
Fox Sparrow	<i>Passerella iliaca</i>	+	+	+
American Tree Sparrow	<i>Spizelloides arborea</i>	+		
Dark-eyed Junco	<i>Junco hyemalis</i>	+	+	+
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	+	+	+
Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	+	+	+
White-throated Sparrow	<i>Zonotrichia albicollis</i>	+	+	
Savannah Sparrow	<i>Passerculus sandwichensis</i>	+	+	+
Song Sparrow	<i>Melospiza melodia</i>	+	+	+
Lincoln's Sparrow	<i>Melospiza lincolni</i>	+	+	+
Swamp Sparrow	<i>Melospiza georgiana</i>	+	+	
Spotted Towhee	<i>Pipilo maculatus</i>	+	+	
Eastern Towhee	<i>Pipilo erythrophthalmus</i>			+
Yellow-breasted Chat	<i>Icteria virens</i>	+	+	





## REFERENCES

- Carson, Michael J. 1994. *Birding Observations Around Rithet's Bog, Saanich, British Columbia*. Victoria Natural History Society. Victoria, BC. 37 pp.
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