

Appendix Table S1

Bird species detected during point count surveys in 2016 and 2017 in the Main River and upper Humber River watersheds of Newfoundland, Canada, and their associated nesting guild.

Common name	<i>Scientific name</i>	Nesting guild	% of sites detected
Alder Flycatcher *	<i>Empidonax alnorum</i>	above-ground	0.7
American Black Duck *†	<i>Anas rubripes</i>		0.2
American Goldfinch *	<i>Spinus tristis</i>	above-ground	0.1
American Redstart *	<i>Setophaga ruticilla</i>	above-ground	0.7
American Robin	<i>Turdus migratorius</i>	above-ground	18.1
American Three-toed Woodpecker	<i>Picoides dorsalis</i>	cavity	0.2
American Tree Sparrow *	<i>Spizelloides arborea</i>	ground	0.1
Black-and-white Warbler	<i>Mniotilta varia</i>	ground	9.4
Black-backed Woodpecker *	<i>Picoides arcticus</i>	cavity	0.7
Black-capped Chickadee *	<i>Poecile atricapillus</i>	cavity	0.9
Blackpoll Warbler	<i>Setophaga striata</i>	above-ground	39.3
Black-throated Green Warbler	<i>Setophaga virens</i>	above-ground	2.3
Blue-headed Vireo *	<i>Vireo solitarius</i>	above-ground	0.3
Boreal Chickadee	<i>Poecile hudsonicus</i>	cavity	5.6
Brown Creeper *	<i>Certhia americana</i>	cavity	0.2
Canada Goose †	<i>Branta canadensis</i>		2.3
Canada Jay	<i>Perisoreus canadensis</i>	above-ground	9.4

Common name	Scientific name	Nesting guild	% of sites detected
Cedar Waxwing *	<i>Bombycilla cedrorum</i>	above-ground	0.1
Common Goldeneye *†	<i>Bucephala clangula</i>		0.1
Common Loon †	<i>Gavia immer</i>		1.8
Common Raven *	<i>Corvus corax</i>	above-ground	0.8
Common Redpoll *	<i>Acanthis flammea</i>	above-ground	0.1
Common Yellowthroat	<i>Geothlypis trichas</i>	ground	4.7
Dark-eyed Junco	<i>Junco hyemalis</i>	ground	29.4
Downy Woodpecker	<i>Dryobates pubescens</i>	cavity	1.6
Fox Sparrow	<i>Passerella iliaca</i>	ground	59.1
Golden-crowned Kinglet *	<i>Regulus satrapa</i>	above-ground	0.4
Gray-cheeked Thrush	<i>Catharus minimus</i>	above-ground	7.7
Greater Yellowlegs †	<i>Tringa melanoleuca</i>		8.6
Green-winged Teal *†	<i>Anas carolinensis</i>		0.2
Hairy Woodpecker *	<i>Dryobates villosus</i>	cavity	1.1
Hermit Thrush	<i>Catharus guttatus</i>	ground	32.0
Herring Gull *†	<i>Larus argentatus</i>		0.3
Least Flycatcher *	<i>Empidonax minimus</i>	above-ground	0.1
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	ground	23.2
Magnolia Warbler	<i>Setophaga magnolia</i>	above-ground	8.3
Merlin *†	<i>Falco columbarius</i>		0.1
Mourning Warbler *	<i>Geothlypis philadelphia</i>	ground	0.2

Common name	Scientific name	Nesting guild	% of sites detected
Nashville Warbler *	<i>Leiothlypis ruficapilla</i>	ground	0.1
Northern Flicker *	<i>Colaptes auratus</i>	cavity	0.7
Northern Hawk Owl *†	<i>Surnia ulula</i>		0.1
Northern Waterthrush	<i>Parkesia noveboracensis</i>	ground	28.8
Olive-sided Flycatcher	<i>Contopus cooperi</i>	above-ground	4.6
Osprey *†	<i>Pandion haliaetus</i>		0.1
Palm Warbler *	<i>Setophaga palmarum</i>	ground	0.4
Pine Grosbeak	<i>Pinicola enucleator</i>	above-ground	12.7
Pine Siskin	<i>Spinus pinus</i>	above-ground	3.2
Purple Finch *	<i>Haemorhous purpureus</i>	above-ground	0.1
Red-breasted Nuthatch *	<i>Sitta canadensis</i>	cavity	0.9
Ring-billed Gull *†	<i>Larus delawarensis</i>		0.1
Ring-necked Duck *†	<i>Aythya collaris</i>		0.2
Rough-legged Hawk *†	<i>Buteo lagopus</i>		0.1
Ruby-crowned Kinglet	<i>Regulus calendula</i>	above-ground	65.4
Ruffed Grouse *†	<i>Bonasa umbellus</i>		0.2
Rusty Blackbird	<i>Euphagus carolinus</i>	above-ground	8.4
Savannah Sparrow	<i>Passerculus sandwichensis</i>	ground	2.0
Sharp-shinned Hawk *†	<i>Accipiter striatus</i>		0.2
Short-billed Dowitcher *†	<i>Limnodromus griseus</i>		0.1
Spotted Sandpiper *†	<i>Actitis macularius</i>		0.5

Common name	<i>Scientific name</i>	Nesting guild	% of sites detected
Spruce Grouse *†	<i>Falcapennis canadensis</i>		0.3
Swainson's Thrush	<i>Catharus ustulatus</i>	above-ground	26.4
Swamp Sparrow *	<i>Melospiza georgiana</i>	ground	0.3
Tennessee Warbler *	<i>Leiothlypis peregrina</i>	ground	0.5
Tree Swallow	<i>Tachycineta bicolor</i>	cavity	4.2
White-throated Sparrow	<i>Zonotrichia albicollis</i>	ground	85.8
White-winged Crossbill *	<i>Loxia leucoptera</i>	above-ground	0.9
Wilson's Snipe †	<i>Gallinago delicata</i>		8.5
Wilson's Warbler	<i>Cardellina pusilla</i>	ground	1.8
Winter Wren	<i>Troglodytes hiemalis</i>	cavity	4.1
Yellow Warbler *	<i>Setophaga petechia</i>	above-ground	0.3
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	ground	35.7
Yellow-rumped Warbler	<i>Setophaga coronata</i>	above-ground	47.7

* Species detected at less than 1.5% of survey points. These were eliminated from single-species occupancy analyses.

† Species detected during surveys but not included in single-species occupancy or species richness analyses.