Atlantic Canada Conservation Data Centre
Centre de données sur la conservation du Canada atlantique

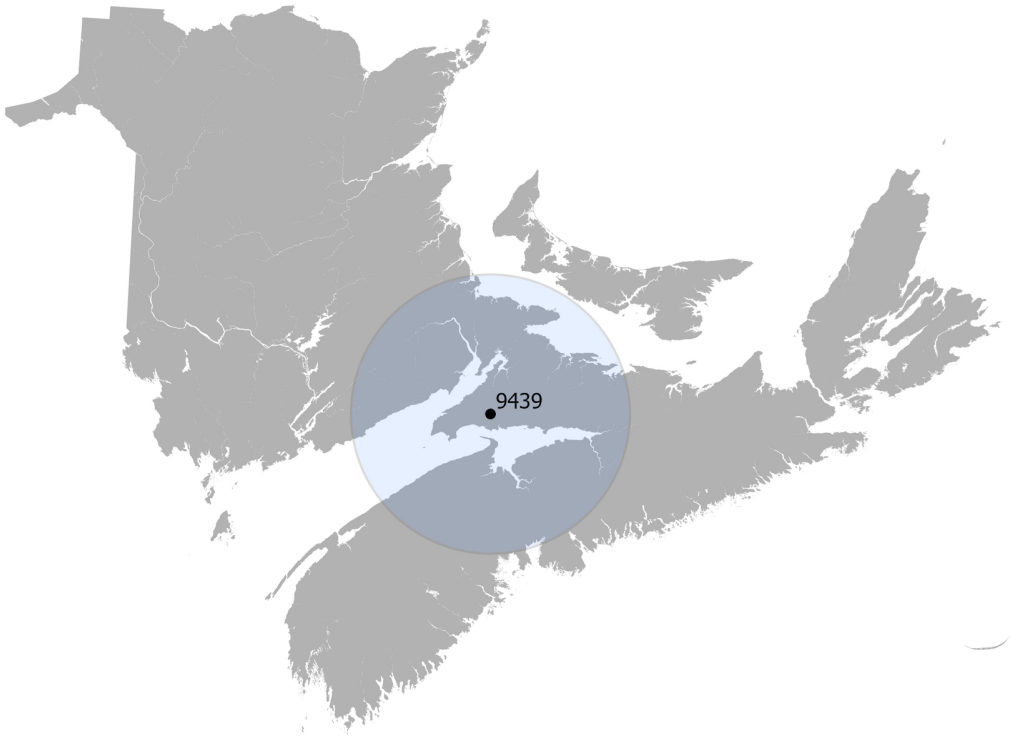
Data Report 9439: Parrsboro, NS

Prepared 08 October, 2026

by Charity Robicheau, Conservation Data Analyst

Table of contents

1 Preface **2**
1.1 Data List . . . 2
1.2 Additional Information . . . 3
2 Rare and Endangered Species **4**
2.1 Flora . . . 4
2.2 Fauna . . . 4
3 Special Areas **5**
3.1 Managed Area(s) . . . 5
3.2 Significant Area(s) . . . 5
4 Rare Species Lists **6**
4.1 Flora . . . 6
4.2 Fauna . . . 6
4.3 Location-Sensitive Species . . . 8
4.4 Source Bibliography . . . 9
5 Rare Species within 100 km **10**
5.1 Source Bibliography (100 km) . . . 29



Map 1. A 100 km buffer around the study area

1 Preface

The Atlantic Canada Conservation Data Centre (AC CDC; www.accdc.com) is a member of the NatureServe network, a collaborative alliance of natural heritage programs and conservation data centres operating across all 50 U.S. states, nine Canadian provinces, three territories, and several countries in Central and South America. Established over five decades ago, the NatureServe network employs a standardized and scientifically rigorous methodology for the collection, analysis, and dissemination of biodiversity data. Since its founding in 1997, the AC CDC has served as the authoritative source of information on species at risk and ecological communities within the jurisdictions of New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland and Labrador. Although AC CDC operates as a non-governmental organization, it receives core funding and support from six federal agencies and four provincial governments and is supplemented by external grants and data processing fees.

In response to formal requests and for a service fee, the AC CDC queries its database and provides customized data reports detailing the known occurrences of rare and endangered flora and fauna within a defined area of interest. These reports are further supplemented by spatial information on protected and conserved areas and sites identified as ecologically significant or sensitive. This service supports evidence-based decision-making in environmental assessments, land-use planning, and natural resource management and is vital to the conservation of biodiversity in Atlantic Canada.

1.1 Data List

Included datasets:

Table 1: Included Datasets

Filename	Contents
ParrsboroNS_9439ob.xls	Rare or legally-protected Flora and Fauna in your study area
ParrsboroNS_9439ob100km.xls	A list of Rare and legally protected Flora and Fauna within 100 km of your study area
ParrsboroNS_9439msa.xls	Managed and Biologically Significant Areas in your study area

The Atlantic Canada Conservation Data Centre (AC CDC) makes every effort to ensure the accuracy of the data it manages; however, it assumes no responsibility for any errors or omissions in the data provided. By accepting data from the AC CDC, recipients agree to the following terms of use:

1. Data must be used only by qualified personnel who are aware of landowner sensitivities and the potential risks that disclosure of rare and/or endangered species locations may pose to those species.
2. Data may be used only by the designated Data User. Any third-party requiring access must submit a separate request to the AC CDC.
3. Data must be deleted and no longer used 12 months after receipt. Continued use requires submission of a new request for updated data.
4. All data provided reflects the contents of the AC CDC's database at the time of the request.
5. Each record includes an estimate of locational uncertainty, which must be considered when assessing the record's relevance to a specific location. Please refer to the accompanying Data Dictionary for further details.
6. AC CDC data responses are not to be construed as exhaustive inventories of taxa in an area of interest.
7. The absence of a taxon does not imply that the species is absent from the area of interest.

1.2 Additional Information

The accompanying Data Dictionary provides metadata for the data provided.
Please direct any additional questions about AC CDC data to the following individuals:

Table 2: AC CDC Contacts

Department	Name	Title	Phone	Email
Plants, Lichens, Ranking Methods, All other Inquiries	Sean Blaney	Senior Scientist / Executive Director	(506) 364-2658	sean.blaney@accdc.ca
Animals (Fauna)	John Klymko	Senior Zoologist	(506) 364-2660	john.klymko@accdc.ca
Data Management, GIS	Charity Robicheau	Conservation Data Analyst	NA	charity.robicheau@accdc.ca
Billing	Jean Breau	Financial Manager	(506) 364-2657	jean.breau@accdc.ca

Additional contacts:

- Questions on the biology of Federal Species at Risk: AC CDC (506) 364-2658
- Questions on Species at Risk regulations: Samara Eaton, Canadian Wildlife Service (NB and PE): (506) 364-5060
- Julie McKnight, Canadian Wildlife Service (NS): (902) 426-4196

New Brunswick: For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in New Brunswick, please contact Hubert Askanas, Energy and Resource Development: (506) 453-5873.

Nova Scotia: For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in Nova Scotia, please contact Mark McGarrigle, ND DNR: Mark.McGarrigle@novascotia.ca.

To determine if location-sensitive species (section 4.3) occur near your study site please contact a NS DLF Regional Biologist:

Table 3: NS DLF Regional Biologists

Region	Name	Phone	Email
Western	Emma Vost	(902) 670-8187	Emma.Vost@novascotia.ca
Western	Sarah Spencer	(902) 541-0081	Sarah.Spencer@novascotia.ca
Eastern	Harrison Moore	(902) 497-4119	Harrison.Moore@novascotia.ca
Eastern	Maureen Cameron-MacMillan	(902) 295-2554	Maureen.Cameron-MacMillan@novascotia.ca
Central	Shavonne Meyer	(902) 893-0816	Shavonne.Meyer@novascotia.ca
Central	Kimberly George	(902) 890-1046	Kimberly.George@novascotia.ca

Prince Edward Island: For provincial information about rare taxa and protected areas, or information about game animals, fish habitat etc., in Prince Edward Island, please contact Garry Gregory, PEI Dept of Communities, Land and Environment: (902) 569-7595.

2 Rare and Endangered Species

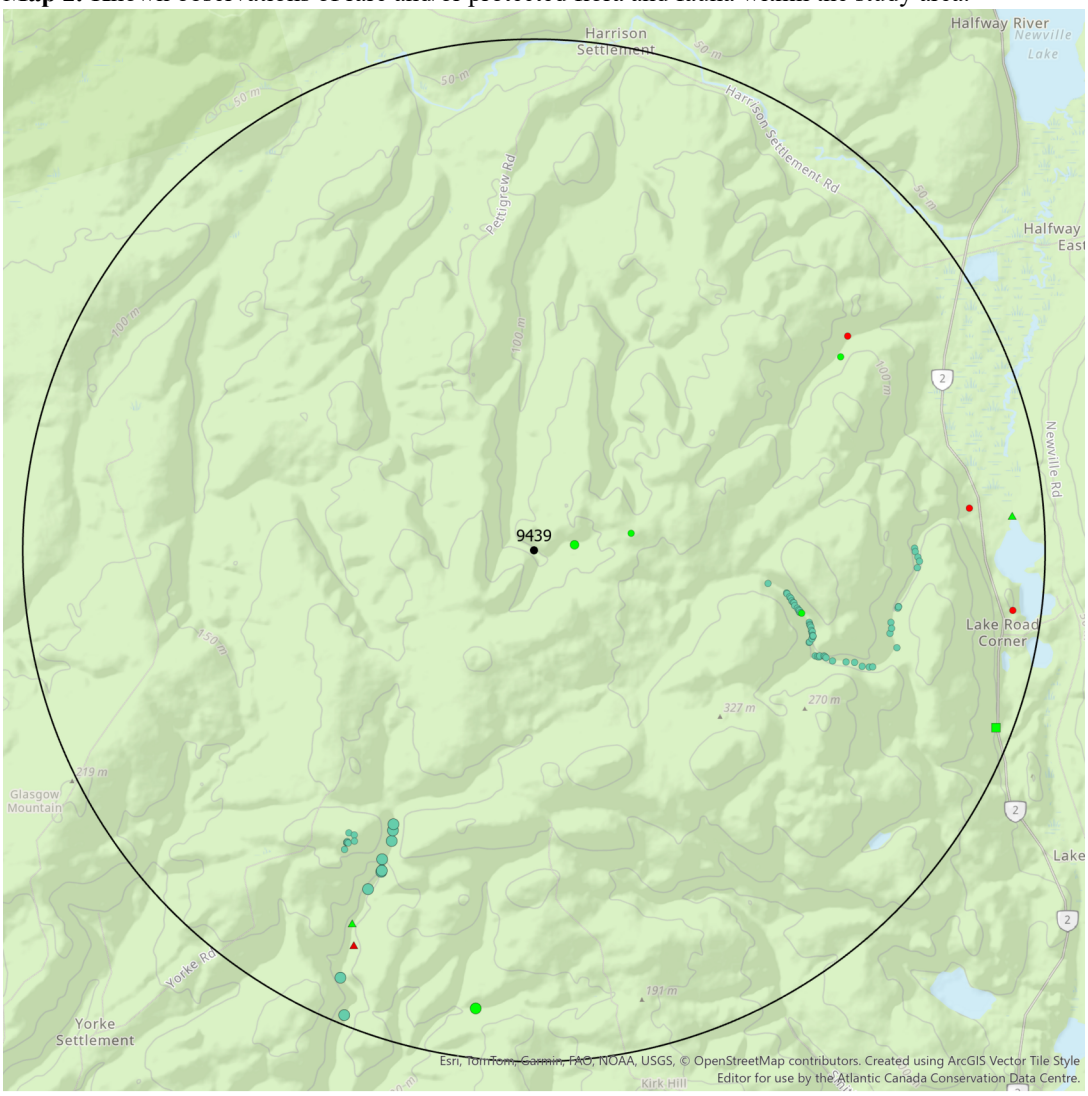
2.1 Flora

The study area contains 8 records of 5 vascular and 73 records of 11 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 Fauna

The study area contains 54 records of 26 vertebrate and no records of invertebrate fauna (Map 2 and attached data files - see 1.1 Data List), excluding 'location-sensitive species'. Please see section 4.3 to determine if 'location-sensitive' species occur near your study site.

Map 2. Known observations of rare and/or protected flora and fauna within the study area.



3 Special Areas

3.1 Managed Area(s)

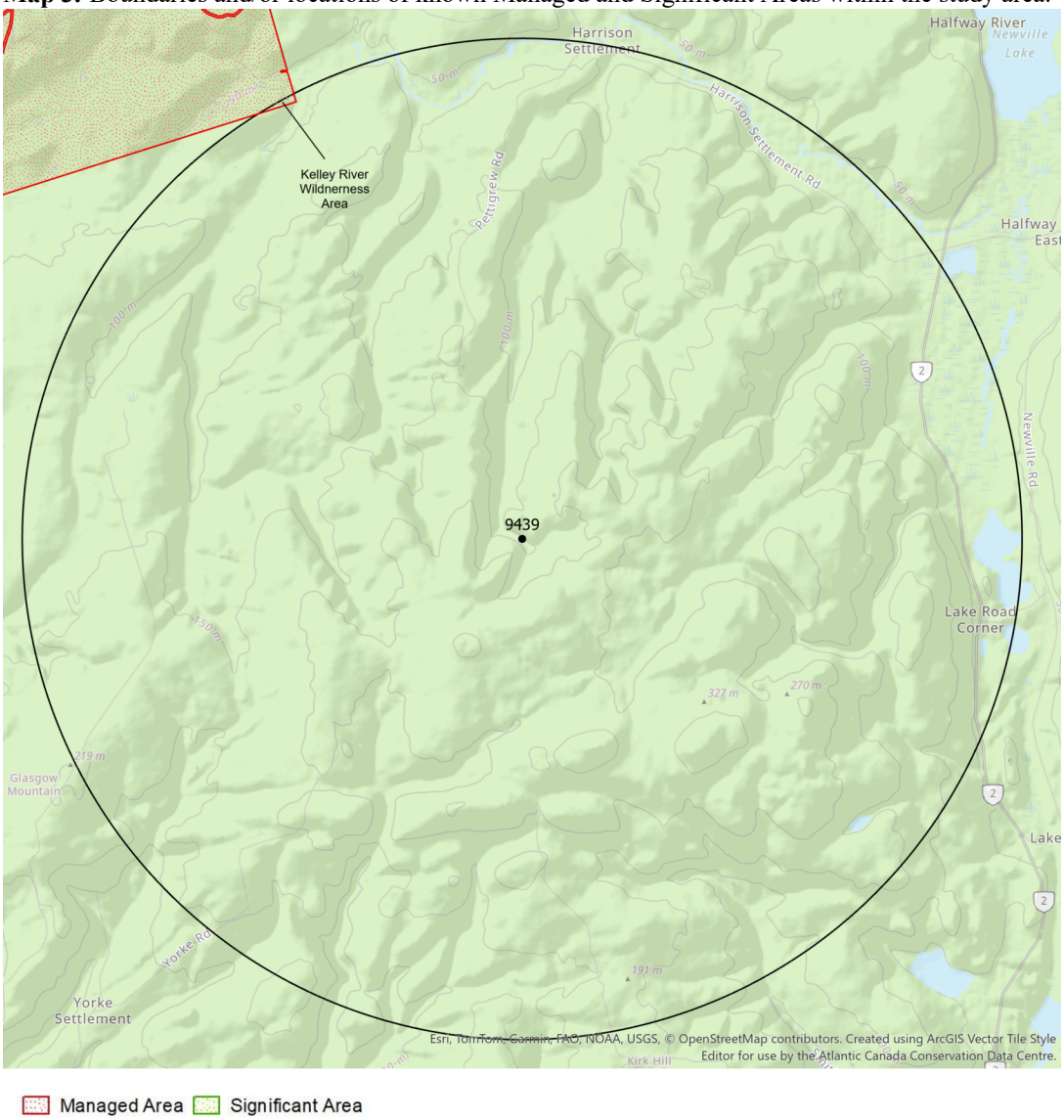
The GIS scan identified 1 managed area in the vicinity of the study area (Map 3 and attached file: *msa.xls).

3.2 Significant Area(s)

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3).

Significant Areas are sites with a conservation designation and management that qualifies them for listing in the Canadian Protected and Conserved Areas Database (CPCAD; link). The absence of a "Significant Area" within a site or region does not indicate an absence of ecologically significant properties.

Map 3. Boundaries and/or locations of known Managed and Significant Areas within the study area.



4 Rare Species Lists

Rare and/or endangered taxa (excluding "location-sensitive" species, section 4.3) within the study area are listed in order of concern, beginning with legally listed taxa. The number of observations per taxon and the distance in kilometers from the study area centroid to the closest observation (± the precision, in km, of the record) are provided. [P] = vascular plant, [N] = nonvascular plant, [A] = vertebrate animal, [I] = invertebrate animal, [C] = community.
Note: Records are from attached files *ob.xls*/*ob.shp only.

4.1 Flora

Table 4: Flora

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
N	*Peltigera hydrothyria*	Eastern Waterfan	Threatened	Threatened	Threatened	S1	60	2.3 ± 0.01
N	*Radula obconica*	a scalewort	NA	NA	NA	S1	1	3.4 ± 0.01
N	*Heterodermia galactophylla*	Branching Fringe Lichen	NA	NA	NA	S1S2	2	3.4 ± 0.01
N	*Jubula pennsylvanica*	a liverwort	NA	NA	NA	S3	1	3.5 ± 0.2
N	*Punctelia appalachensis*	Appalachian Speckleback Lichen	NA	NA	NA	S3	1	3.3 ± 0.01
N	*Thamnobryum alleghaniense*	a Moss	NA	NA	NA	S3S4	1	3.4 ± 0.06
N	*Sticta fuliginosa*	Peppered Moon Lichen	NA	NA	NA	S3S4	1	4.9 ± 0.2
N	*Heterodermia speciosa*	Powdered Fringe Lichen	NA	NA	NA	S3S4	1	3.4 ± 0.01
N	*Stereocaulon condensatum*	Granular Soil Foam Lichen	NA	NA	NA	S3S4	1	3.3 ± 0.01
N	*Anaptychia palmulata*	Shaggy Fringed Lichen	NA	NA	NA	S3S4	2	3.3 ± 0.02
N	*Heterodermia neglecta*	Fringe Lichen	NA	NA	NA	S3S4	2	3.4 ± 0.01
P	*Impatiens pallida*	Pale Jewelweed	NA	NA	NA	S3	1	4.1 ± 0.45
P	*Persicaria arifolia*	Halberd-leaved Tearthumb	NA	NA	NA	S3	1	4.8 ± 10.0
P	*Carex tenera*	Tender Sedge	NA	NA	NA	S3	1	1.0 ± 0.01
P	*Fagus grandifolia*	American Beech	NA	NA	NA	S3S4	4	0.4 ± 0.04
P	*Alopecurus aequalis*	Short-awned Foxtail	NA	NA	NA	S3S4	1	4.7 ± 0.5

4.2 Fauna

Table 5: Fauna

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	*Riparia riparia*	Bank Swallow	Threatened	Threatened	Endangered	S3B	4	4.8 ± 7.07
A	*Cardellina canadensis*	Canada Warbler	Special Concern	Threatened	Endangered	S2S3B	2	4.8 ± 7.07
A	*Dolichonyx oryzivorus*	Bobolink	Special Concern	Threatened	Vulnerable	S2S3B	4	4.8 ± 7.07
A	*Hirundo rustica*	Barn Swallow	Special Concern	Threatened	Endangered	S3B	4	4.3 ± 0.02
A	*Coccothraustes vespertinus*	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N	1	4.8 ± 7.07

Table 5: Fauna *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	*Chordeiles minor*	Common Nighthawk	Special Concern	Special Concern	Threatened	S3S4B	2	4.8 ± 7.07
A	*Contopus virens*	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1	4.8 ± 7.07
A	*Circus hudsonius*	Northern Harrier	Not At Risk	NA	NA	S3B,S4M	2	4.8 ± 7.07
A	*Passerina cyanea*	Indigo Bunting	NA	NA	NA	S1B,SUM	3	4.7 ± 0.01
A	*Pooecetes gramineus*	Vesper Sparrow	NA	NA	NA	S1S2B,SUM	1	4.8 ± 7.07
A	*Perisoreus canadensis*	Canada Jay	NA	NA	NA	S3	3	4.8 ± 7.07
A	*Poecile hudsonicus*	Boreal Chickadee	NA	NA	NA	S3	3	4.8 ± 7.07
A	*Salvelinus fontinalis*	Brook Trout	NA	NA	NA	S3	2	3.7 ± 0.01
A	*Tyrannus tyrannus*	Eastern Kingbird	NA	NA	NA	S3?B	2	4.8 ± 7.07
A	*Charadrius vociferus*	Killdeer	NA	NA	NA	S3B	1	4.8 ± 7.07
A	*Botaurus lentiginosus*	American Bittern	NA	NA	NA	S3B,S4M	2	4.8 ± 7.07
A	*Falco sparverius*	American Kestrel	NA	NA	NA	S3B,S4M	3	4.8 ± 7.07
A	*Gallinago delicata*	Wilson’s Snipe	NA	NA	NA	S3B,S4M	4	4.8 ± 7.07
A	*Cardellina pusilla*	Wilson’s Warbler	NA	NA	NA	S3B,S4M	1	4.8 ± 7.07
A	*Leiothlypis peregrina*	Tennessee Warbler	NA	NA	NA	S3B,S5M	1	4.8 ± 7.07
A	*Astur atricapillus*	American Goshawk	NA	NA	NA	S3S4	1	4.8 ± 7.07
A	*Picoides arcticus*	Black-backed Woodpecker	NA	NA	NA	S3S4	1	4.9 ± 0.01
A	*Podilymbus podiceps*	Pied-billed Grebe	NA	NA	NA	S3S4B	1	4.8 ± 7.07
A	*Petrochelidon pyrrhonota*	Cliff Swallow	NA	NA	NA	S3S4B	2	4.8 ± 7.07
A	*Pheucticus ludovicianus*	Rose-breasted Grosbeak	NA	NA	NA	S3S4B	1	4.8 ± 7.07
A	*Setophaga tigrina*	Cape May Warbler	NA	NA	NA	S3S4B,S4M	2	4.8 ± 7.07

4.3 Location-Sensitive Species

The Department of Natural Resources in each Maritimes province considers a number of species "location sensitive." Concern about exploitation of location-sensitive species precludes inclusion of precise coordinates in this report. Those intersecting your study area are highlighted below.

Table 6: Nova Scotia Location Sensitive Species

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within the Study Site?
Alces alces americana	**Moose – Mainland population**	**NA**	**Endangered**	**Yes**
Fraxinus nigra	Black Ash	NA	Threatened	No
Emydoidea blandingii	Blanding's Turtle - Nova Scotia pop.	Endangered	Endangered	No
Glyptemys insculpta	Wood Turtle	Threatened	Threatened	No
Falco peregrinus pop. 1	Peregrine Falcon - anatum/tundrius pop.	NA	Vulnerable	No
Bat Hibernaculum or bat species occurrence	**NA**	**[Endangered]1**	**[Endangered]1**	**Yes**
Snake hibernaculum	NA	[Threatened]²	[Threatened]²	No

Occurrences between **October 15 – April 15** are considered location sensitive. 1 *Myotis lucifugus*, *Myotis septentrionalis*, and *Perimyotis subflavus* are all **Endangered** under the Federal Species at Risk Act and the NS Endangered Species Act.
2 *Thamnophis sauritus* (Eastern Ribbonsnake) is **Threatened** under both Acts.

4.4 Source Bibliography

The recipient of these data shall acknowledge the AC CDC and the data sources listed below in any documents, reports, publications, or presentations in which this dataset makes a significant contribution.

Table 7: Source Bibliography

# recs	Citation
33	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
25	Brooks, Fiona. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
17	Porter, Caitlin. 2021. Field data for 2020 in various locations across the Maritimes. Atlantic Canada Conservation Data Centre, 3977 records.
16	Chapman-Lam, C.J. 2021. Atlantic Canada Conservation Data Centre 2020 botanical fieldwork. Atlantic Canada Conservation Data Centre, 17309 recs.
16	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
12	iNaturalist. 2025. iNaturalist Data Export 2025. iNaturalist.ca; iNaturalist.org.
9	iNaturalist.ca. 2025. iNaturalist Data Export December 2024. NatureServe Canada (ed.) iNaturalist.ca; iNaturalist.org, Web site: 254307.
3	iNaturalist.ca. 2023. iNaturalist Data Export December 2022. iNaturalist.org; iNaturalist.ca, Web site: 128634 recs.
1	Canadian Wildlife Service. 2019. Canadian Protected and Conserved Areas Database (CPCAD). December 2019. ECCC.https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html.
1	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
1	Newell, R.E. 2005. E.C. Smith Digital Herbarium. E.C. Smith Herbarium, Irving Biodiversity Collection, Acadia University, Web site: http://luxor.acadiau.ca/library/Herbarium/project/. 582 recs.
1	NS DNRR Wildlife Division. Biodiversity Investigation Reporting (BIR) SAR Record Export. Nova Scotia Department of Natural Resources and Renewables, 3071 recs.
1	Roland, A.E. & Smith, E.C. 1969. The Flora of Nova Scotia, 1st Ed. Nova Scotia Museum, Halifax, 743pp.

5 Rare Species within 100 km

A 100 km buffer around the study area contains 83022 records of 170 vertebrate and 3711 records of 94 invertebrate fauna; 12457 records of 288 vascular and 4869 records of 232 nonvascular flora (attached: *ob100km.xls).

Taxa within 100 km of the study site that are rare and/or endangered in the province in which the study site occurs (including “location-sensitive” species). All ranks correspond to the province in which the study site falls, even for out-of-province records. Taxa are listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from the study area centroid to the closest observation (± the precision, in km, of the record).

Table 8: Species within 100 km

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Coregonus huntsmani*	Atlantic Whitefish	Endangered	Endangered	Endangered	S1	1	28.6 ± 1.0	NS
A	*Myotis lucifugus*	Little Brown Myotis	Endangered	Endangered	Endangered	S1	705	1.9 ± 1.8	NS
A	*Myotis septentrionalis*	Northern Myotis	Endangered	Endangered	Endangered	S1	41	27.3 ± 0.02	NS
A	*Perimyotis subflavus*	Tricolored Bat	Endangered	Endangered	Endangered	S1	47	36.1 ± 1.8	NS
A	*Emydoidea blandingii pop. 1*	Blanding’s Turtle - Nova Scotia population	Endangered	Endangered	Endangered	S1	565	48.0 ± 1.8	NS
A	*Salmo salar pop. 1*	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered	NA	S1	3035	10.3 ± 1.0	NS
A	*Salmo salar pop. 6*	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered	NA	NA	S1	17	66.8 ± 3.43	NS
A	*Charadrius melodus melodus*	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	85	14.9 ± 0.5	NS
A	*Sterna dougallii*	Roseate Tern	Endangered	Endangered	Endangered	S1B	1	40.0 ± 0.5	NS
A	*Dermochelys coriacea pop. 2*	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered	NA	S1S2N	3	64.5 ± 1.0	NB
A	*Morone saxatilis pop. 2*	Striped Bass - Bay of Fundy population	Endangered	NA	NA	S2S3B,S2S3N	127	100.0 ± 0.01	NS
A	*Lasionycteris noctivagans*	Silver-haired Bat	Endangered	NA	NA	SUB,S1M	15	46.2 ± 0.1	NS
A	*Lasiurus borealis*	Eastern Red Bat	Endangered	NA	NA	SUB,S1M	9	28.9 ± 1.8	NS
A	*Lasiurus cinereus*	Hoary Bat	Endangered	NA	NA	SUB,S1M	44	46.2 ± 0.1	NS
A	*Asio flammeus*	Short-eared Owl	Threatened	Special Concern	NA	S1B	94	25.5 ± 7.07	NS
A	*Limosa haemastica*	Hudsonian Godwit	Threatened	NA	NA	S1M	218	33.6 ± 0.1	NB
A	*Glyptemys insculpta*	Wood Turtle	Threatened	Threatened	Threatened	S2	1956	10.0 ± 1.0	NS
A	*Catharus bicknelli*	Bicknell’s Thrush	Threatened	Threatened	Endangered	S2B	9	37.4 ± 7.07	NS
A	*Thamnophis saurita pop. 3*	Eastern Ribbonsnake - Atlantic population	Threatened	Threatened	Threatened	S2S3	3	94.9 ± 0.01	NS
A	*Chaetura pelagica*	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S2S3M	1624	10.0 ± 0.15	NS
A	*Acipenser oxyrinchus pop. 2*	Atlantic Sturgeon - Maritimes populations	Threatened	NA	NA	S2S3N	49	12.3 ± 2.5	NS
A	*Riparia riparia*	Bank Swallow	Threatened	Threatened	Endangered	S3B	2594	10.5 ± 1.0	NS
A	*Hydrobates leucorhous pop. 1*	Leach’s Storm-Petrel - Atlantic Population	Threatened	NA	NA	S3B	4	76.3 ± 0.03	NB

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Limnodromus griseus ssp. 1*	Short-billed Dowitcher hendersoni/griseus	Threatened	NA	NA	S3M	1285	27.8 ± 0.5	NS
A	*Anguilla rostrata*	American Eel	Threatened	NA	NA	S3N	8553	100.0 ± 0.2	NS
A	*Tringa flavipes*	Lesser Yellowlegs	Threatened	NA	NA	S3S4M	1389	27.8 ± 0.5	NS
A	*Sturnella magna*	Eastern Meadowlark	Threatened	Threatened	NA	SHB	44	32.9 ± 7.07	NB
A	*Hylocichla mustelina*	Wood Thrush	Threatened	Threatened	NA	SUB	104	22.2 ± 0.25	NS
A	*Bubo scandiacus*	Snowy Owl	Threatened	NA	NA	SUN	103	23.0 ± 1.8	NS
A	*Salmo salar pop. 12*	Atlantic Salmon - Gaspe - Southern Gulf of St. Lawrence population	Special Concern	NA	NA	S1	25	35.9 ± 0.03	NS
A	*Antrostomus vociferus*	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1B	16	42.7 ± 1.8	NS
A	*Botaurus exilis*	Least Bittern	Special Concern	Threatened	NA	S1B	34	36.8 ± 0.15	NS
A	*Passerculus sandwichensis princeps*	Ipswich Sparrow	Special Concern	Special Concern	NA	S1B	1	38.7 ± 0.19	NS
A	*Bucephala islandica pop. 1*	Barrow's Goldeneye - Eastern Population	Special Concern	Special Concern	NA	S1N,SUM	117	42.8 ± 0.03	NS
A	*Balaenoptera physalus pop. 1*	Fin Whale - Atlantic population	Special Concern	Special Concern	NA	S2S3	2	34.9 ± 1.0	NB
A	*Cardellina canadensis*	Canada Warbler	Special Concern	Threatened	Endangered	S2S3B	1239	10.1 ± 0.15	NS
A	*Euphagus carolinus*	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2S3B	278	15.6 ± 7.07	NS
A	*Dolichonyx oryzivorus*	Bobolink	Special Concern	Threatened	Vulnerable	S2S3B	2606	100.0 ± 0.15	NS
A	*Phalaropus lobatus*	Red-necked Phalarope	Special Concern	Special Concern	NA	S2S3M	36	34.7 ± 0.2	NS
A	*Morone saxatilis pop. 1*	Striped Bass - Southern Gulf of St. Lawrence population	Special Concern	NA	NA	S2S3N	25	45.2 ± 0.2	NB
A	*Chelydra serpentina*	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	747	100.0 ± 0.01	NS
A	*Hirundo rustica*	Barn Swallow	Special Concern	Threatened	Endangered	S3B	2103	10.5 ± 0.1	NS
A	*Contopus cooperi*	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1073	11.2 ± 0.15	NS
A	*Coccothraustes vespertinus*	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N	890	10.7 ± 0.15	NS
A	*Histrionicus histrionicus pop. 1*	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S3N	25	17.9 ± 0.01	NS
A	*Podiceps auritus*	Horned Grebe	Special Concern	NA	NA	S3N	7	26.5 ± 0.91	NS
A	*Chordeiles minor*	Common Nighthawk	Special Concern	Special Concern	Threatened	S3S4B	633	12.6 ± 7.07	NS
A	*Contopus virens*	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1673	11.4 ± 0.01	NS
A	*Phocoena phocoena pop. 1*	Harbour Porpoise - Northwest Atlantic Population	Special Concern	NA	NA	S4	14	28.5 ± 0.2	NB
A	*Chrysemys picta picta*	Eastern Painted Turtle	Special Concern	Special Concern	NA	S4	602	23.1 ± 0.57	NS
A	*Acipenser brevirostrum*	Shortnose Sturgeon	Special Concern	Special Concern	NA	SNR	1	35.7 ± 0.2	NS
A	*Anarhichas lupus*	Atlantic Wolffish	Special Concern	Special Concern	NA	SNR	1	97.6 ± 0.2	NS
A	*Aegolius funereus*	Boreal Owl	Not At Risk	NA	NA	S1?B,SUM	6	57.9 ± 0.5	NB
A	*Fulica americana*	American Coot	Not At Risk	NA	NA	S1B	94	24.8 ± 0.01	NS
A	*Chlidonias niger*	Black Tern	Not At Risk	NA	NA	S1B	199	32.2 ± 0.5	NB
A	*Astur cooperii*	Cooper's Hawk	Not At Risk	NA	NA	S1B,S1N	79	24.0 ± 0.2	NS
A	*Falco peregrinus pop. 1*	Peregrine Falcon - anatum/tundrius	Not At Risk	NA	Vulnerable	S1B,S3M	530	100.0 ± 0.15	NS
A	*Lynx canadensis*	Canada Lynx	Not At Risk	NA	Endangered	S2S3	39	39.1 ± 1.8	NS
A	*Hemidactylium scutatum*	Four-toed Salamander	Not At Risk	NA	NA	S3	111	55.0 ± 0.01	NB
A	*Megaptera novaeangliae pop. 2*	Humpback Whale - Western North Atlantic Population	Not At Risk	NA	NA	S3	6	23.0 ± 0.29	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Sterna hirundo*	Common Tern	Not At Risk	NA	NA	S3B	336	31.4 ± 7.07	NB
A	*Circus hudsonius*	Northern Harrier	Not At Risk	NA	NA	S3B,S4M	707	12.6 ± 7.07	NS
A	*Lagenorhynchus acutus*	Atlantic White-sided Dolphin	Not At Risk	NA	NA	S3S4	3	43.2 ± 1.0	NB
A	*Ammospiza nelsoni*	Nelson's Sparrow	Not At Risk	NA	NA	S3S4B	1398	12.9 ± 7.07	NS
A	*Buteo lagopus*	Rough-legged Hawk	Not At Risk	NA	NA	S3S4N	37	23.9 ± 0.03	NS
A	*Calidris canutus rufa*	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2S3M,SUN	501	33.0 ± 5.0	NB
A	*Alces alces americana*	Moose	NA	NA	Endangered	S1	362	10.7 ± 0.2	NS
A	*Melanerpes carolinus*	Red-bellied Woodpecker	NA	NA	NA	S1	51	29.0 ± 0.03	NS
A	*Salvelinus namaycush*	Lake Trout	NA	NA	NA	S1	1	52.3 ± 0.01	NB
A	*Sorex dispar kirklandi*	a long-tailed shrew	NA	NA	NA	S1	5	27.3 ± 0.5	NS
A	*Picoides dorsalis*	American Three-toed Woodpecker	NA	NA	NA	S1?	8	48.0 ± 11.0	NB
A	*Notropis heterolepis*	Blacknose Shiner	NA	NA	NA	S1?	1	90.1 ± 0.4	NS
A	*Charadrius melodus*	Piping Plover	NA	NA	Endangered	S1B	1	35.3 ± 0.03	NS
A	*Nycticorax nycticorax*	Black-crowned Night Heron	NA	NA	NA	S1B	8	40.4 ± 3.22	NB
A	*Oxyura jamaicensis*	Ruddy Duck	NA	NA	NA	S1B	125	24.9 ± 0.2	NS
A	*Gallinula galeata*	Common Gallinule	NA	NA	NA	S1B	82	38.1 ± 0.5	NB
A	*Antigone canadensis*	Sandhill Crane	NA	NA	NA	S1B	53	33.5 ± 0.5	NB
A	*Bartramia longicauda*	Upland Sandpiper	NA	NA	NA	S1B	49	33.8 ± 0.5	NB
A	*Uria aalge*	Common Murre	NA	NA	NA	S1B	3	12.4 ± 0.62	NS
A	*Myiarchus crinitus*	Great Crested Flycatcher	NA	NA	NA	S1B	54	27.6 ± 0.15	NS
A	*Cistothorus palustris*	Marsh Wren	NA	NA	NA	S1B	160	13.3 ± 0.69	NS
A	*Mimus polyglottos*	Northern Mockingbird	NA	NA	NA	S1B	250	12.6 ± 7.07	NS
A	*Toxostoma rufum*	Brown Thrasher	NA	NA	NA	S1B	41	28.9 ± 0.03	NS
A	*Salmo salar*	Atlantic Salmon	NA	NA	NA	S1B,S1N	28	45.3 ± 0.05	NB
A	*Falco peregrinus*	Peregrine Falcon	NA	NA	Vulnerable	S1B,S3M	7	29.6 ± 0.01	NB
A	*Charadrius semipalmatus*	Semipalmated Plover	NA	NA	NA	S1B,S3S4M	1900	12.5 ± 0.06	NS
A	*Anas acuta*	Northern Pintail	NA	NA	NA	S1B,S4M	193	24.8 ± 0.25	NS
A	*Vireo gilvus*	Eastern Warbling Vireo	NA	NA	NA	S1B,SUM	123	32.1 ± 7.07	NS
A	*Passerina cyanea*	Indigo Bunting	NA	NA	NA	S1B,SUM	67	23.4 ± 0.25	NS
A	*Bucephala islandica*	Barrow's Goldeneye	NA	NA	NA	S1N,SUM	5	10.0 ± 0.45	NS
A	*Salmo salar (landlocked)*	Atlantic Salmon (landlocked)	NA	NA	NA	S1S2	1	96.2 ± 2.03	NS
A	*Vespertilionidae sp.*	bat species	NA	NA	NA	S1S2	144	10.5 ± 0.1	NS
A	*Vespertilionidae sp. not Eptesicus*	Bat species not Big Brown Bat	NA	NA	NA	S1S2	126	100.0 ± 0.1	NS
A	*Calidris minutilla*	Least Sandpiper	NA	NA	NA	S1S2B,S2S4M	1345	12.8 ± 0.03	NS
A	*Pooecetes gramineus*	Vesper Sparrow	NA	NA	NA	S1S2B,SUM	134	12.2 ± 0.15	NS
A	*Pluvialis dominica*	American Golden-Plover	NA	NA	NA	S2?M	211	33.0 ± 5.0	NB
A	*Empidonax traillii*	Willow Flycatcher	NA	NA	NA	S2B	73	29.6 ± 0.15	NS
A	*Somateria mollissima*	Common Eider	NA	NA	NA	S2B,S3M,S2N	367	11.3 ± 9.8	NS
A	*Numenius phaeopus hudsonicus*	Whimbrel	NA	NA	NA	S2M	182	33.4 ± 0.2	NS
A	*Larus hyperboreus*	Glaucous Gull	NA	NA	NA	S2N	94	38.2 ± 0.2	NS
A	*Martes americana*	American Marten	NA	NA	Endangered	S2S3	50	11.3 ± 0.02	NS
A	*Rallus limicola*	Virginia Rail	NA	NA	NA	S2S3B	489	23.3 ± 7.07	NS
A	*Icterus galbula*	Baltimore Oriole	NA	NA	NA	S2S3B	261	23.3 ± 7.07	NS
A	*Morone saxatilis*	Striped Bass	NA	NA	NA	S2S3B,S2S3N	8711	38.0 ± 0.2	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Pinicola enucleator*	Pine Grosbeak	NA	NA	NA	S2S3B,S5N	114	17.1 ± 0.01	NS
A	*Calidris melanotos*	Pectoral Sandpiper	NA	NA	NA	S2S3M	462	32.9 ± 1.61	NB
A	*Phalaropus fulicarius*	Red Phalarope	NA	NA	NA	S2S3M	2	33.8 ± 0.5	NB
A	*Calidris alpina*	Dunlin	NA	NA	NA	S2S3M,S2N	611	12.7 ± 0.35	NS
A	*Calidris canutus*	Red Knot	NA	NA	NA	S2S3M,SUN	6	33.3 ± 0.12	NS
A	*Calidris fuscicollis*	White-rumped Sandpiper	NA	NA	NA	S2S4M	1047	14.9 ± 0.5	NS
A	*Asio otus*	Long-eared Owl	NA	NA	NA	S3	29	25.9 ± 7.07	NS
A	*Perisoreus canadensis*	Canada Jay	NA	NA	NA	S3	798	11.2 ± 0.15	NS
A	*Poecile hudsonicus*	Boreal Chickadee	NA	NA	NA	S3	559	10.1 ± 0.01	NS
A	*Salvelinus fontinalis*	Brook Trout	NA	NA	NA	S3	822	17.2 ± 0.01	NS
A	*Culaea inconstans*	Brook Stickleback	NA	NA	NA	S3	24	64.0 ± 0.03	NS
A	*Sorex maritimensis*	Maritime Shrew	NA	NA	NA	S3	2	42.5 ± 1.0	NS
A	*Synaptomys cooperi*	Southern Bog Lemming	NA	NA	NA	S3	77	27.3 ± 0.5	NS
A	*Pekania pennanti*	Fisher	NA	NA	NA	S3	25	14.0 ± 0.01	NS
A	*Tyrannus tyrannus*	Eastern Kingbird	NA	NA	NA	S3?B	729	12.6 ± 7.07	NS
A	*Setophaga pinus*	Pine Warbler	NA	NA	NA	S3?B	135	15.9 ± 0.15	NS
A	*Vireo philadelphicus*	Philadelphia Vireo	NA	NA	NA	S3?B,S4M	124	15.6 ± 0.15	NS
A	*Setophaga striata*	Blackpoll Warbler	NA	NA	NA	S3?B,S5M	122	12.6 ± 7.07	NS
A	*Pluvialis squatarola*	Black-bellied Plover	NA	NA	NA	S3?M	1662	20.6 ± 0.2	NS
A	*Calidris pusilla*	Semipalmated Sandpiper	NA	NA	NA	S3?M	2618	14.9 ± 0.5	NS
A	*Spatula discors*	Blue-winged Teal	NA	NA	NA	S3B	598	12.6 ± 7.07	NS
A	*Charadrius vociferus*	Killdeer	NA	NA	NA	S3B	1218	12.6 ± 7.07	NS
A	*Tringa semipalmata*	Willet	NA	NA	NA	S3B	1005	13.3 ± 7.07	NS
A	*Rissa tridactyla*	Black-legged Kittiwake	NA	NA	NA	S3B	5	34.9 ± 0.2	NS
A	*Sterna paradisaea*	Arctic Tern	NA	NA	NA	S3B	10	47.3 ± 0.81	NB
A	*Fratercula arctica*	Atlantic Puffin	NA	NA	NA	S3B	3	48.0 ± 11.0	NB
A	*Coccyzus erythropthalmus*	Black-billed Cuckoo	NA	NA	NA	S3B	139	14.9 ± 0.05	NS
A	*Piranga olivacea*	Scarlet Tanager	NA	NA	NA	S3B	73	28.4 ± 0.25	NS
A	*Molothrus ater*	Brown-headed Cowbird	NA	NA	NA	S3B	379	12.6 ± 7.07	NS
A	*Alosa pseudoharengus*	Alewife	NA	NA	NA	S3B	63	29.1 ± 0.05	NS
A	*Phalacrocorax carbo*	Great Cormorant	NA	NA	NA	S3B,S3N	36	17.3 ± 0.06	NS
A	*Botaurus lentiginosus*	American Bittern	NA	NA	NA	S3B,S4M	1209	12.6 ± 7.07	NS
A	*Spatula clypeata*	Northern Shoveler	NA	NA	NA	S3B,S4M	599	24.8 ± 0.01	NS
A	*Mareca strepera*	Gadwall	NA	NA	NA	S3B,S4M	607	24.8 ± 0.01	NS
A	*Falco sparverius*	American Kestrel	NA	NA	NA	S3B,S4M	638	100.0 ± 0.01	NS
A	*Tringa melanoleuca*	Greater Yellowlegs	NA	NA	NA	S3B,S4M	2243	19.4 ± 0.03	NS
A	*Gallinago delicata*	Wilson's Snipe	NA	NA	NA	S3B,S4M	1549	12.6 ± 7.07	NS
A	*Cardellina pusilla*	Wilson's Warbler	NA	NA	NA	S3B,S4M	194	12.6 ± 7.07	NS
A	*Passerella iliaca*	Fox Sparrow	NA	NA	NA	S3B,S4M	61	29.0 ± 0.03	NS
A	*Leiothlypis peregrina*	Tennessee Warbler	NA	NA	NA	S3B,S5M	573	11.2 ± 0.15	NS
A	*Branta bernicla*	Brant	NA	NA	NA	S3M	41	32.4 ± 0.5	NB
A	*Limnodromus griseus*	Short-billed Dowitcher	NA	NA	NA	S3M	12	38.6 ± 0.01	NS
A	*Arenaria interpres*	Ruddy Turnstone	NA	NA	NA	S3M,S1N	640	24.9 ± 0.5	NS
A	*Calidris alba*	Sanderling	NA	NA	NA	S3M,S2S3N	1498	19.3 ± 0.06	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Histrionicus histrionicus*	Harlequin Duck	NA	NA	Endangered	S3N	4	42.8 ± 0.5	NS
A	*Podiceps auritus pop. 2*	Horned Grebe - Western population	NA	Special Concern	NA	S3N	76	33.5 ± 0.24	NS
A	*Calidris maritima*	Purple Sandpiper	NA	NA	NA	S3N	141	26.1 ± 0.2	NS
A	*Chroicocephalus ridibundus*	Black-headed Gull	NA	NA	NA	S3N	15	74.1 ± 0.5	NB
A	*Lanius borealis*	Northern Shrike	NA	NA	NA	S3N	60	19.1 ± 0.03	NS
A	*Astur atricapillus*	American Goshawk	NA	NA	NA	S3S4	187	12.6 ± 7.07	NS
A	*Picoides arcticus*	Black-backed Woodpecker	NA	NA	NA	S3S4	161	12.6 ± 7.07	NS
A	*Sorex albibarbis*	Eastern Water Shrew	NA	NA	NA	S3S4	1	49.6 ± 1.0	NB
A	*Glaucomys volans*	Southern Flying Squirrel	NA	NA	NA	S3S4	7	41.8 ± 10.0	NS
A	*Podilymbus podiceps*	Pied-billed Grebe	NA	NA	NA	S3S4B	1526	23.3 ± 7.07	NS
A	*Petrochelidon pyrrhonota*	Cliff Swallow	NA	NA	NA	S3S4B	655	12.6 ± 7.07	NS
A	*Pheucticus ludovicianus*	Rose-breasted Grosbeak	NA	NA	NA	S3S4B	1013	10.1 ± 0.15	NS
A	*Setophaga tigrina*	Cape May Warbler	NA	NA	NA	S3S4B,S4M	295	12.0 ± 0.15	NS
A	*Mergus serrator*	Red-breasted Merganser	NA	NA	NA	S3S4B,S4N	265	12.6 ± 7.07	NS
A	*Leiothlypis celata*	Orange-crowned Warbler	NA	NA	NA	S3S4M	14	35.5 ± 0.2	NS
A	*Bucephala albeola*	Bufflehead	NA	NA	NA	S3S4N	198	10.0 ± 0.2	NS
A	*Aythya americana*	Redhead	NA	NA	NA	SHB	19	24.7 ± 0.01	NS
A	*Leucophaeus atricilla*	Laughing Gull	NA	NA	NA	SHB	18	33.0 ± 5.0	NB
A	*Progne subis*	Purple Martin	NA	NA	NA	SHB	86	13.0 ± 7.07	NS
A	*Eremophila alpestris*	Horned Lark	NA	NA	NA	SHB,S5M,S4N	97	29.0 ± 0.03	NS
A	*Morus bassanus*	Northern Gannet	NA	NA	NA	SXB	139	23.0 ± 0.15	NS
A	*Lanius ludovicianus*	Loggerhead Shrike	NA	NA	NA	SXB	1	80.0 ± 0.5	NB
I	*Bombus bohemicus*	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	19	42.9 ± 5.0	NS
I	*Danaus plexippus*	Monarch	Endangered	Endangered	Endangered	S2?B,S3M	1307	10.0 ± 2.5	NS
I	*Danaus plexippus plexippus*	Monarch	Endangered	Endangered	Endangered	S2?B,S3M	3	27.5 ± 0.06	NS
I	*Barnea truncata*	Atlantic Mud-piddock	Threatened	Threatened	NA	S1	15	28.7 ± 0.86	NS
I	*Bombus suckleyi*	Suckley's Cuckoo Bumble Bee	Threatened	NA	NA	SH	3	64.8 ± 5.0	NS
I	*Alasmidonta varicosa*	Brook Floater	Special Concern	Special Concern	Threatened	S3	22	47.9 ± 1.0	NB
I	*Bombus terricola*	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	378	10.5 ± 0.01	NS
I	*Coccinella transversoguttata richardsoni*	Transverse Lady Beetle	Special Concern	Special Concern	Endangered	SH	29	51.8 ± 2.5	NS
I	*Gomphurus ventricosus*	Skillet Clubtail	Special Concern	Endangered	NA	SH	2	76.5 ± 1.0	NS
I	*Epeoloides pilosulus*	Macropis Cuckoo Bee	Data Deficient	Endangered	Endangered	S1	2	78.4 ± 5.0	NS
I	*Cicindela formosa generosa*	Big Sand Tiger Beetle	NA	NA	NA	S1	1	46.0 ± 1.0	NS
I	*Quedius spelaeus*	Spelean Rove Beetle	NA	NA	NA	S1	1	63.9 ± 5.0	NS
I	*Erora laeta*	Early Hairstreak	NA	NA	NA	S1	1	84.2 ± 1.0	NB
I	*Zoraena obliqua*	Arrowhead Spiketail	NA	NA	NA	S1	1	66.5 ± 0.01	NS
I	*Atlanticoncha ochracea*	Tidewater Mucket	NA	NA	NA	S1	39	31.4 ± 0.5	NS
I	*Polygonia satyrus*	Satyr Comma	NA	NA	NA	S1?	5	18.5 ± 0.2	NS
I	*Eristalis brousii*	Hourglass Drone Fly	NA	NA	NA	S1S2	1	29.0 ± 0.03	NS
I	*Euphyes bimacula*	Two-spotted Skipper	NA	NA	NA	S1S2	14	52.6 ± 0.01	NB
I	*Boloria chariclea grandis*	Purple Lesser Fritillary	NA	NA	NA	S1S2	10	10.8 ± 2.5	NS
I	*Somatochlora brevicincta*	Quebec Emerald	NA	NA	NA	S1S2	2	21.3 ± 1.0	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
I	*Hippodamia tredecimpunctata tibialis*	Thirteen-spotted Lady Beetle	NA	NA	NA	S2	24	40.4 ± 0.03	NB
I	*Tournotaris bimaculata*	Two-spotted Brachycerid Weevil	NA	NA	NA	S2	3	34.0 ± 0.2	NS
I	*Tharsalea dospassosi*	Maritime Copper	NA	NA	NA	S2	102	62.5 ± 0.01	NS
I	*Satyrium acadica*	Acadian Hairstreak	NA	NA	NA	S2	21	16.8 ± 2.5	NS
I	*Polygonia comma*	Eastern Comma	NA	NA	NA	S2	40	35.3 ± 0.2	NS
I	*Coenagrion resolutum*	Taiga Bluet	NA	NA	NA	S2	37	29.0 ± 0.03	NS
I	*Pantala hymenaea*	Spot-Winged Glider	NA	NA	NA	S2?B	9	21.3 ± 1.0	NS
I	*Nymphalis l-album j-album*	Compton Tortoiseshell	NA	NA	NA	S2S3	18	10.7 ± 0.2	NS
I	*Aglais milberti*	Milbert's Tortoiseshell	NA	NA	NA	S2S3	51	35.3 ± 0.1	NB
I	*Lanthus vernalis*	Southern Pygmy Clubtail	NA	NA	NA	S2S3	5	41.2 ± 0.2	NS
I	*Somatochlora kennedyi*	Kennedy's Emerald	NA	NA	NA	S2S3	14	21.1 ± 0.1	NS
I	*Somatochlora williamsoni*	Williamson's Emerald	NA	NA	NA	S2S3	16	35.9 ± 1.0	NB
I	*Williamsonia fletcheri*	Ebony Boghaunter	NA	NA	NA	S2S3	14	20.6 ± 0.01	NS
I	*Stylurus scudderi*	Zebra Clubtail	NA	NA	NA	S2S3	40	46.4 ± 0.1	NS
I	*Alasmidonta undulata*	Triangle Floater	NA	NA	NA	S2S3	32	14.3 ± 0.1	NS
I	*Margaritifera margaritifera*	Eastern Pearlshell	NA	NA	NA	S2S3	182	14.3 ± 0.1	NS
I	*Astyleiopus variegatus*	Variegated Long-horned Beetle	NA	NA	NA	S3	2	65.6 ± 0.03	NS
I	*Strophiona nitens*	Chestnut Bark Long-horned Beetle	NA	NA	NA	S3	8	55.2 ± 0.02	NS
I	*Psephenus herricki*	Herrick's Water Penny Beetle	NA	NA	NA	S3	6	59.5 ± 0.2	NS
I	*Lebia ornata*	Ornate Harp Ground Beetle	NA	NA	NA	S3	1	45.3 ± 0.04	NB
I	*Sacodes pulchella*	Beautiful Marsh Beetle	NA	NA	NA	S3	1	35.1 ± 2.62	NS
I	*Dinothenarus capitatus*	Helmet Rove Beetle	NA	NA	NA	S3	1	48.4 ± 0.2	NS
I	*Carabus maeander*	Meander Ground Beetle	NA	NA	NA	S3	1	75.3 ± 1.0	NB
I	*Carabus serratus*	Serrated Ground Beetle	NA	NA	NA	S3	2	70.9 ± 0.03	NS
I	*Hippodamia parenthesis*	Parenthesis Lady Beetle	NA	NA	NA	S3	23	40.4 ± 0.03	NB
I	*Oxyporus lateralis*	Lateral Cross-toothed Rove Beetle	NA	NA	NA	S3	1	84.5 ± 5.58	NB
I	*Disonycha pensylvanica*	Pennsylvania Flea Beetle	NA	NA	NA	S3	1	55.0 ± 0.01	NS
I	*Chrysochus auratus*	Dogbane Leaf Beetle	NA	NA	NA	S3	15	41.3 ± 3.04	NS
I	*Naemia seriata*	Seaside Lady Beetle	NA	NA	NA	S3	115	12.6 ± 0.2	NS
I	*Phyxelis rigidus*	Rigid Broad-nosed Weevil	NA	NA	NA	S3	1	35.1 ± 2.38	NS
I	*Elateroides lugubris*	Sapwood Ship-timber Beetle	NA	NA	NA	S3	1	43.7 ± 0.01	NB
I	*Chilocorus stigma*	Twice-stabbed Lady Beetle	NA	NA	NA	S3	30	28.1 ± 0.02	NS
I	*Myzia pullata*	Streaked Lady Beetle	NA	NA	NA	S3	8	40.7 ± 0.2	NB
I	*Iphthiminus opacus*	Cloudy Darkling Beetle	NA	NA	NA	S3	5	24.8 ± 0.37	NS
I	*Monochamus marmorator*	Balsam Fir Sawyer	NA	NA	NA	S3	8	44.9 ± 1.1	NB
I	*Dicerca tenebrosa*	Dark Jewel Beetle	NA	NA	NA	S3	2	28.7 ± 0.03	NS
I	*Dicerca tuberculata*	Swollen Jewel Beetle	NA	NA	NA	S3	1	95.1 ± 9.73	NS
I	*Astylopsis sexguttata*	Six-speckled Long-horned Beetle	NA	NA	NA	S3	2	96.5 ± 0.25	NS
I	*Satyrium calanus falacer*	Falacer Hairstreak	NA	NA	NA	S3	50	42.0 ± 2.5	NS
I	*Callophrys lanoraieensis*	Bog Elfin	NA	NA	NA	S3	47	44.1 ± 0.59	NS
I	*Strymon melinus*	Gray Hairstreak	NA	NA	NA	S3	9	45.4 ± 2.5	NS
I	*Phanogomphus descriptus*	Harpoon Clubtail	NA	NA	NA	S3	15	49.6 ± 0.1	NS
I	*Ophiogomphus aspersus*	Brook Snaketail	NA	NA	NA	S3	15	38.4 ± 0.1	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
I	*Ophiogomphus mainensis*	Maine Snaketail	NA	NA	NA	S3	16	13.9 ± 1.0	NS
I	*Ophiogomphus rupinsulensis*	Rusty Snaketail	NA	NA	NA	S3	21	61.8 ± 0.1	NS
I	*Epitheca princeps*	Prince Baskettail	NA	NA	NA	S3	19	47.9 ± 0.01	NS
I	*Somatochlora forcipata*	Forcipate Emerald	NA	NA	NA	S3	4	30.2 ± 0.03	NS
I	*Enallagma vernale*	Vernal Bluet	NA	NA	NA	S3	4	63.0 ± 1.0	NS
I	*Strophitus undulatus*	Creeper	NA	NA	NA	S3	6	47.4 ± 1.0	NS
I	*Polygonia interrogationis*	Question Mark	NA	NA	NA	S3B	222	22.4 ± 7.07	NS
I	*Lepturopsis biforis*	Two-spotted Long-horned Beetle	NA	NA	NA	S3S4	2	42.8 ± 0.2	NS
I	*Cecropterus pylades*	Northern Cloudywing	NA	NA	NA	S3S4	8	40.7 ± 0.01	NB
I	*Amblyscirtes hegon*	Pepper and Salt Skipper	NA	NA	NA	S3S4	28	28.0 ± 2.5	NS
I	*Argynnis aphrodite*	Aphrodite Fritillary	NA	NA	NA	S3S4	1	38.5 ± 0.05	NB
I	*Argynnis aphrodite winni*	Aphrodite Fritillary	NA	NA	NA	S3S4	57	10.0 ± 2.5	NS
I	*Polygonia faunus*	Green Comma	NA	NA	NA	S3S4	49	33.4 ± 2.5	NS
I	*Oeneis jutta ascerta*	Jutta Arctic	NA	NA	NA	S3S4	53	20.7 ± 0.02	NS
I	*Aeshna clepsydra*	Mottled Darner	NA	NA	NA	S3S4	5	68.2 ± 1.0	NS
I	*Aeshna constricta*	Lance-Tipped Darner	NA	NA	NA	S3S4	70	28.7 ± 0.03	NS
I	*Boyeria grafiana*	Ocellated Darner	NA	NA	NA	S3S4	19	46.0 ± 0.03	NB
I	*Gomphaeschna furcillata*	Harlequin Darner	NA	NA	NA	S3S4	23	42.6 ± 0.01	NS
I	*Somatochlora franklini*	Delicate Emerald	NA	NA	NA	S3S4	13	20.6 ± 0.01	NS
I	*Erythrodiplax berenice*	Seaside Dragonlet	NA	NA	NA	S3S4	12	64.5 ± 0.01	NB
I	*Nannothemis bella*	Elfin Skimmer	NA	NA	NA	S3S4	35	51.8 ± 1.0	NS
I	*Sympetrum danae*	Black Meadowhawk	NA	NA	NA	S3S4	5	76.9 ± 0.64	NB
I	*Enallagma vesperum*	Vesper Bluet	NA	NA	NA	S3S4	4	76.0 ± 0.03	NS
I	*Amphiagrion saucium*	Eastern Red Damsel	NA	NA	NA	S3S4	26	36.9 ± 0.2	NS
I	*Cupido comyntas*	Eastern Tailed Blue	NA	NA	NA	S4	42	10.5 ± 0.01	NS
I	*Pachydiplax longipennis*	Blue Dasher	NA	NA	NA	S4	108	36.0 ± 0.01	NS
I	*Enallagma geminatum*	Skimming Bluet	NA	NA	NA	S4	6	46.0 ± 0.2	NS
I	*Sphaerophoria pyrrhina*	Violaceous Globetail	NA	NA	NA	SH	1	89.9 ± 5.0	NS
I	*Icaricia saepiolus amica*	Greenish Blue	NA	NA	NA	SH	3	78.4 ± 2.5	NB
I	*Chlosyne nycteis*	Silvery Checkerspot	NA	NA	NA	SH	14	100.0 ± 0.25	NB
I	*Polygonia gracilis*	Hoary Comma	NA	NA	NA	SH	1	89.6 ± 2.5	NS
N	*Erioderma mollissimum*	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1	2	42.1 ± 1.0	NS
N	*Erioderma pedicellatum (Atlantic pop.)*	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	7	41.6 ± 0.5	NS
N	*Peltigera hydrothyria*	Eastern Waterfan	Threatened	Threatened	Threatened	S1	957	2.3 ± 0.01	NS
N	*Anzia colpodes*	Black-foam Lichen	Threatened	Threatened	Threatened	S3	86	10.7 ± 3.0	NS
N	*Pannaria lurida*	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S3	162	30.2 ± 1.0	NS
N	*Fuscopannaria leucosticta*	White-rimmed Shingle Lichen	Threatened	NA	NA	S3	19	53.5 ± 0.01	NS
N	*Heterodermia squamulosa*	Scaly Fringe Lichen	Threatened	NA	NA	S3	177	13.2 ± 0.2	NS
N	*Pectenia plumbea*	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	82	17.4 ± 1.0	NS
N	*Sclerophora peronella (Atlantic pop.)*	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern	NA	S3S4	39	44.2 ± 0.2	NS
N	*Pseudevernia cladonia*	Ghost Antler Lichen	Not At Risk	NA	NA	S2S3	29	38.2 ± 1.5	NS
N	*Fissidens exilis*	Pygmy Pocket Moss	Not At Risk	NA	NA	S4	18	30.1 ± 0.03	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Notothylas orbicularis*	Round Hornwort	NA	NA	NA	S1	1	96.3 ± 0.2	NS
N	*Radula obconica*	a scalewort	NA	NA	NA	S1	1	3.4 ± 0.01	NS
N	*Aloina brevirostris*	Short-Beaked Rigid Screw Moss	NA	NA	NA	S1	2	47.7 ± 0.03	NS
N	*Orthotrichum gymnostomum*	Aspen Bristle Moss	NA	NA	NA	S1	3	63.4 ± 0.03	NS
N	*Platydictya minutissima*	Small Willow Moss	NA	NA	NA	S1	1	73.4 ± 0.2	NS
N	*Seligeria calcarea*	Chalk Brittle Moss	NA	NA	NA	S1	2	52.7 ± 0.2	NB
N	*Seligeria diversifolia*	a Moss	NA	NA	NA	S1	1	82.4 ± 0.1	NB
N	*Sematophyllum demissum*	a Moss	NA	NA	NA	S1	1	95.9 ± 2.5	NS
N	*Tetrodontium brownianum*	Little Georgia	NA	NA	NA	S1	8	42.4 ± 0.03	NS
N	*Blennothallia crispa*	Crinkled Jelly Lichen	NA	NA	NA	S1	1	41.2 ± 0.05	NS
N	*Umbilicaria vellea*	Grizzled Rocktripe Lichen	NA	NA	NA	S1	2	48.8 ± 1.0	NB
N	*Usnea perplexans*	Powdered Beard Lichen	NA	NA	NA	S1	3	35.9 ± 1.0	NS
N	*Scytinium dactylinum*	Brown-buttoned Jellyskin Lichen	NA	NA	NA	S1	2	33.2 ± 0.34	NS
N	*Cetrariella delisei*	Snowbed Icelandmoss Lichen	NA	NA	NA	S1	2	72.6 ± 1.0	NB
N	*Lathagrium cristatum*	Fingered Jelly Lichen	NA	NA	NA	S1	6	51.1 ± 1.0	NB
N	*Ephebe hispidula*	Dryside Rockshag Lichen	NA	NA	NA	S1	1	87.1 ± 0.05	NS
N	*Ephebe perspinulosa*	Thread Lichen	NA	NA	NA	S1	2	33.4 ± 1.33	NS
N	*Fuscopannaria praetermissa*	Moss Shingles Lichen	NA	NA	NA	S1	1	60.5 ± 0.05	NS
N	*Scytinium schraderi*	Wrinkled Jellyskin Lichen	NA	NA	NA	S1	1	73.1 ± 0.05	NS
N	*Polychidium muscicola*	Eyed Mossthorns Woollybear Lichen	NA	NA	NA	S1	15	42.4 ± 1.98	NB
N	*Spilonema revertens*	Rock Hairball Lichen	NA	NA	NA	S1	5	11.4 ± 0.01	NS
N	*Sticta limbata*	Powdered Moon Lichen	NA	NA	NA	S1	8	38.5 ± 2.0	NS
N	*Lathagrium fuscovirens*	Crumpled Rock Tarpaper Lichen	NA	NA	NA	S1	1	39.8 ± 0.05	NS
N	*Dermatocarpon miniatum*	Common Stippleback Lichen	NA	NA	NA	S1	2	48.8 ± 1.0	NB
N	*Peltigera lepidophora*	Scaly Pelt Lichen	NA	NA	NA	S1	12	27.8 ± 0.01	NS
N	*Aloina rigida*	Aloe-Like Rigid Screw Moss	NA	NA	NA	S1?	5	31.8 ± 0.1	NB
N	*Imbribryum muehlenbeckii*	Muehlenbeck's Bryum Moss	NA	NA	NA	S1?	2	64.3 ± 0.01	NS
N	*Cirriphyllum piliferum*	Hair-pointed Moss	NA	NA	NA	S1?	4	73.4 ± 0.01	NB
N	*Conardia compacta*	Coast Creeping Moss	NA	NA	NA	S1?	1	49.0 ± 1.5	NB
N	*Tortula obtusifolia*	a Moss	NA	NA	NA	S1?	3	88.2 ± 1.0	NS
N	*Didymodon tophaceus*	Olive Beard Moss	NA	NA	NA	S1?	2	41.4 ± 0.01	NS
N	*Discelium nudum*	Naked Weissia	NA	NA	NA	S1?	1	31.4 ± 0.2	NS
N	*Homomallium adnatum*	Adnate Hairy-gray Moss	NA	NA	NA	S1?	3	35.7 ± 0.04	NS
N	*Paludella squarrosa*	Tufted Fen Moss	NA	NA	NA	S1?	3	61.6 ± 0.01	NS
N	*Schistostega pennata*	Luminous Moss	NA	NA	NA	S1?	2	65.7 ± 0.01	NS
N	*Seligeria recurvata*	a Moss	NA	NA	NA	S1?	3	93.1 ± 1.0	NB
N	*Timmia norvegica*	a moss	NA	NA	NA	S1?	3	48.8 ± 0.1	NB
N	*Plagiomnium ellipticum*	Marsh Leafy Moss	NA	NA	NA	S1?	1	70.9 ± 0.01	NS
N	*Syntrichia ruralis*	a Moss	NA	NA	NA	S1?	1	86.8 ± 0.1	NB
N	*Enchylium limosum*	Lime-loving Tarpaper Lichen	NA	NA	NA	S1?	2	40.6 ± 0.01	NS
N	*Euopsis granatina*	Lesser Rockbud Lichen	NA	NA	NA	S1?	1	88.0 ± 1.33	NS
N	*Scytinium intermedium*	Forty-five Jellyskin Lichen	NA	NA	NA	S1?	1	41.6 ± 4.0	NS
N	*Peltigera malacea*	Veinless Pelt Lichen	NA	NA	NA	S1?	1	54.6 ± 1.0	NB
N	*Peltigera venosa*	Fan Pelt Lichen	NA	NA	NA	S1?	1	64.1 ± 1.0	NB

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Reboulia hemisphaerica*	Purple-margined Liverwort	NA	NA	NA	S1S2	3	65.7 ± 0.03	NS
N	*Arrhenopterum heterostichum*	One-sided Groove Moss	NA	NA	NA	S1S2	2	30.1 ± 1.6	NS
N	*Brachythecium turgidum*	Thick Ragged Moss	NA	NA	NA	S1S2	3	35.6 ± 0.3	NS
N	*Dicranoweisia crispula*	Mountain Thatch Moss	NA	NA	NA	S1S2	1	47.5 ± 0.1	NB
N	*Didymodon rigidulus*	Rigid Screw Moss	NA	NA	NA	S1S2	8	48.5 ± 0.2	NB
N	*Didymodon ferrugineus*	Rusty Beard Moss	NA	NA	NA	S1S2	1	48.6 ± 0.1	NB
N	*Hygrohypnum montanum*	a Moss	NA	NA	NA	S1S2	2	53.0 ± 1.0	NB
N	*Hypnum pratense*	Meadow Plait Moss	NA	NA	NA	S1S2	1	49.7 ± 3.0	NS
N	*Mnium thomsonii*	Thomson's Leafy Moss	NA	NA	NA	S1S2	1	59.0 ± 2.0	NS
N	*Plagiothecium latebricola*	Alder Silk Moss	NA	NA	NA	S1S2	2	23.3 ± 3.2	NS
N	*Platydictya confervoides*	a Moss	NA	NA	NA	S1S2	1	61.3 ± 0.01	NS
N	*Seligeria donniana*	Donian Beardless Moss	NA	NA	NA	S1S2	1	39.2 ± 3.2	NS
N	*Sematophyllum marylandicum*	a Moss	NA	NA	NA	S1S2	2	88.5 ± 6.5	NS
N	*Timmia megapolitana*	Metropolitan Timmia Moss	NA	NA	NA	S1S2	3	30.0 ± 1.0	NS
N	*Tortula mucronifolia*	Mucronate Screw Moss	NA	NA	NA	S1S2	1	22.6 ± 3.0	NS
N	*Syntrichia papillosa*	a Moss	NA	NA	NA	S1S2	3	60.6 ± 0.01	NS
N	*Haplocladium microphyllum*	Tiny-leaved Haplocladium Moss	NA	NA	NA	S1S2	1	72.8 ± 5.0	NS
N	*Enchylium bachmanianum*	Bachman's Jelly Lichen	NA	NA	NA	S1S2	2	31.4 ± 0.01	NS
N	*Cladonia sulphurina*	Greater Sulphur-cup Lichen	NA	NA	NA	S1S2	7	40.7 ± 0.01	NB
N	*Heterodermia galactophylla*	Branching Fringe Lichen	NA	NA	NA	S1S2	8	3.4 ± 0.01	NS
N	*Peltigera ponojensis*	Pale-bellied Pelt Lichen	NA	NA	NA	S1S2	4	34.0 ± 1.0	NS
N	*Pilophorus cereolus*	Powdered Matchstick Lichen	NA	NA	NA	S1S2	3	38.4 ± 3.0	NS
N	*Parmotrema reticulatum*	Netted Ruffle Lichen	NA	NA	NA	S1S2	15	17.1 ± 0.01	NS
N	*Punctelia caseana*	Case's Speckled-back Lichen	NA	NA	NA	S1S2	9	33.5 ± 0.2	NB
N	*Radula tenax*	Tenacious Scalewort	NA	NA	NA	S1S3	3	45.7 ± 0.1	NB
N	*Aphanorrhegma serratum*	Lidded Earth Moss	NA	NA	NA	S1S3	1	71.4 ± 0.2	NS
N	*Ephemerum crassinervium*	Thick-nerved Earth Moss	NA	NA	NA	S1S3	2	48.6 ± 0.2	NS
N	*Tortula acaulon*	Cuspidate Earth Moss	NA	NA	NA	S1S3	6	33.7 ± 0.02	NS
N	*Physcomitrium immersum*	a Moss	NA	NA	NA	S1S3	8	36.1 ± 0.38	NS
N	*Lecanora polytropa*	a lichen	NA	NA	NA	S1S3	7	45.8 ± 1.0	NB
N	*Xylopsora friesii*	a Lichen	NA	NA	NA	S1S3	1	48.8 ± 1.0	NB
N	*Peltigera neckeri*	Black-saddle Pelt Lichen	NA	NA	NA	S1S3	4	46.5 ± 0.2	NS
N	*Usnea fragilescens*	Inflationary Beard Lichen	NA	NA	NA	S1S3	1	35.9 ± 1.0	NS
N	*Usnea chaetophora*	Articulated Beard Lichen	NA	NA	NA	S1S3	1	41.6 ± 0.05	NS
N	*Stereocaulon grande*	Grand Foam Lichen	NA	NA	NA	S1S3	1	66.7 ± 0.5	NS
N	*Stereocaulon intermedium*	Pacific Brain Foam Lichen	NA	NA	NA	S1S3	7	17.2 ± 2.6	NS
N	*Moerckia flotoviana*	Flotow's Ruffwort	NA	NA	NA	S2	1	41.0 ± 0.01	NS
N	*Anacamptodon splachnoides*	a Moss	NA	NA	NA	S2	6	23.3 ± 3.2	NS
N	*Scorpidium scorpioides*	Hooked Scorpion Moss	NA	NA	NA	S2	1	44.0 ± 0.2	NS
N	*Cystocoleus ebeneus*	Rockgossamer Lichen	NA	NA	NA	S2	4	27.8 ± 0.01	NS
N	*Cladonia wainioi*	False Reindeer Lichen	NA	NA	NA	S2	3	67.4 ± 0.2	NB
N	*Scytinium imbricatum*	Scaly Jellyskin Lichen	NA	NA	NA	S2	4	31.4 ± 0.2	NS
N	*Nephroma arcticum*	Arctic Kidney Lichen	NA	NA	NA	S2	3	13.3 ± 0.5	NS
N	*Nephroma resupinatum*	a lichen	NA	NA	NA	S2	9	49.9 ± 0.01	NB

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Placynthium flabellosum*	Scaly Ink Lichen	NA	NA	NA	S2	10	48.6 ± 1.0	NB
N	*Anaptychia crinalis*	Hanging Fringed Lichen	NA	NA	NA	S2	1	78.9 ± 1.0	NB
N	*Cololejeunea biddlecomiae*	Biddlecome's Pouncewort	NA	NA	NA	S2?	1	74.9 ± 0.06	NS
N	*Anomodon viticulosus*	a Moss	NA	NA	NA	S2?	4	44.3 ± 0.01	NS
N	*Weissia muhlenbergiana*	a Moss	NA	NA	NA	S2?	7	49.7 ± 3.0	NS
N	*Atrichum angustatum*	Lesser Smoothcap Moss	NA	NA	NA	S2?	6	48.8 ± 5.0	NS
N	*Ptychostomum pendulum*	Drooping Bryum	NA	NA	NA	S2?	1	63.9 ± 2.5	NS
N	*Drepanocladus polygamus*	Polygamous Hook Moss	NA	NA	NA	S2?	8	40.9 ± 0.01	NS
N	*Pseudocampylium radicale*	Long-stalked Fine Wet Moss	NA	NA	NA	S2?	1	49.7 ± 3.0	NS
N	*Dicranum condensatum*	Condensed Broom Moss	NA	NA	NA	S2?	2	47.7 ± 0.1	NB
N	*Fissidens bushii*	Bush's Pocket Moss	NA	NA	NA	S2?	20	42.7 ± 0.01	NS
N	*Fontinalis sullivantii*	Sullivant's Water Moss	NA	NA	NA	S2?	1	41.6 ± 0.2	NS
N	*Hygrohypnum bestii*	Best's Brook Moss	NA	NA	NA	S2?	6	45.0 ± 1.0	NB
N	*Philonotis marchica*	a Moss	NA	NA	NA	S2?	3	41.4 ± 0.2	NB
N	*Physcomitrium collenchymatum*	a Moss	NA	NA	NA	S2?	1	44.2 ± 0.1	NS
N	*Platydictya jungermannioides*	False Willow Moss	NA	NA	NA	S2?	6	47.7 ± 0.03	NS
N	*Rhytidium rugosum*	Wrinkle-leaved Moss	NA	NA	NA	S2?	2	48.5 ± 1.0	NB
N	*Saelania glaucescens*	Blue Dew Moss	NA	NA	NA	S2?	3	47.5 ± 0.1	NB
N	*Tortella fragilis*	Fragile Twisted Moss	NA	NA	NA	S2?	1	48.8 ± 0.1	NB
N	*Trichodon cylindricus*	Cylindric Hairy-teeth Moss	NA	NA	NA	S2?	7	44.2 ± 3.0	NS
N	*Anomobryum julaceum*	Slender Silver Moss	NA	NA	NA	S2?	4	48.7 ± 1.0	NB
N	*Cyrtomnium hymenophylloides*	Short-pointed Lantern Moss	NA	NA	NA	S2?	8	48.8 ± 0.1	NB
N	*Platylomella lescurii*	a Moss	NA	NA	NA	S2?	13	64.2 ± 0.2	NS
N	*Phylliscum demangeonii*	Black Rock-wafer Lichen	NA	NA	NA	S2?	3	67.3 ± 0.05	NS
N	*Calypogeia neogaea*	Common Pouchwort	NA	NA	NA	S2S3	3	27.9 ± 0.03	NS
N	*Porella pinnata*	Pinnate Scalewort	NA	NA	NA	S2S3	4	47.1 ± 0.2	NS
N	*Oxyrrhynchium hians*	Light Beaked Moss	NA	NA	NA	S2S3	5	60.1 ± 0.01	NS
N	*Platydictya subtilis*	Bark Willow Moss	NA	NA	NA	S2S3	9	23.3 ± 3.2	NS
N	*Plagiomnium rostratum*	Long-beaked Leafy Moss	NA	NA	NA	S2S3	6	43.4 ± 2.0	NS
N	*Scorpidium revolvens*	Limprichtia Moss	NA	NA	NA	S2S3	2	44.0 ± 0.01	NS
N	*Rhynchostegium serrulatum*	Dark Beaked Moss	NA	NA	NA	S2S3	1	96.5 ± 2.0	NS
N	*Moelleropsis nebulosa*	Blue-gray Moss Shingle Lichen	NA	NA	NA	S2S3	5	63.3 ± 0.08	NS
N	*Ramalina thrausta*	Angelhair Ramalina Lichen	NA	NA	NA	S2S3	26	12.5 ± 8.0	NS
N	*Usnea ceratina*	Warty Beard Lichen	NA	NA	NA	S2S3	2	29.4 ± 0.4	NS
N	*Usnea hirta*	Bristly Beard Lichen	NA	NA	NA	S2S3	9	22.8 ± 1.0	NS
N	*Usnea scabrata*	Straw Beard Lichen	NA	NA	NA	S2S3	3	34.0 ± 1.0	NS
N	*Usnea rubicunda*	Red Beard Lichen	NA	NA	NA	S2S3	2	40.0 ± 0.15	NS
N	*Ahtiana aurescens*	Eastern Candlewax Lichen	NA	NA	NA	S2S3	13	12.3 ± 1.0	NS
N	*Usnocetraria oakesiana*	Yellow Band Lichen	NA	NA	NA	S2S3	20	34.0 ± 1.0	NS
N	*Catinaria atropurpurea*	a lichen	NA	NA	NA	S2S3	1	70.4 ± 0.2	NB
N	*Cladonia incrassata*	Powder-foot British Soldiers Lichen	NA	NA	NA	S2S3	1	69.6 ± 0.2	NS
N	*Cladonia mateocyatha*	Mixed-up Pixie-cup	NA	NA	NA	S2S3	2	51.8 ± 1.2	NS
N	*Cladonia parasitica*	Fence-rail Lichen	NA	NA	NA	S2S3	4	17.4 ± 1.2	NS
N	*Scytinium tenuissimum*	Birdnest Jellyskin Lichen	NA	NA	NA	S2S3	11	38.5 ± 0.01	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Melanelia hepatizon*	Rimmed Camouflage Lichen	NA	NA	NA	S2S3	1	65.7 ± 0.2	NB
N	*Melanohalea septentrionalis*	Northern Camouflage Lichen	NA	NA	NA	S2S3	12	22.8 ± 1.0	NS
N	*Myelochroa aurulenta*	Powdery Axil-bristle Lichen	NA	NA	NA	S2S3	11	17.2 ± 0.01	NS
N	*Hypotrachyna minarum*	Hairless-spined Shield Lichen	NA	NA	NA	S2S3	40	17.2 ± 0.01	NS
N	*Parmeliopsis ambigua*	Green Starburst Lichen	NA	NA	NA	S2S3	2	47.0 ± 2.0	NS
N	*Racodium rupestre*	Rockhair Lichen	NA	NA	NA	S2S3	1	94.2 ± 1.2	NS
N	*Umbilicaria polyphylla*	Petalled Rocktripe Lichen	NA	NA	NA	S2S3	1	47.0 ± 2.0	NS
N	*Usnea cavernosa*	Pitted Beard Lichen	NA	NA	NA	S2S3	8	30.2 ± 1.0	NS
N	*Usnea mutabilis*	Bloody Beard Lichen	NA	NA	NA	S2S3	1	40.1 ± 0.25	NS
N	*Fuscopannaria sorediata*	a Lichen	NA	NA	NA	S2S3	14	52.3 ± 0.2	NB
N	*Stereocaulon subcoralloides*	Coralloid Foam Lichen	NA	NA	NA	S2S3	1	46.6 ± 1.0	NB
N	*Hypotrachyna revoluta*	Granulating Loop Lichen	NA	NA	NA	S2S3	21	18.9 ± 0.2	NS
N	*Cetraria arenaria*	Sand-loving Icelandmoss Lichen	NA	NA	NA	S2S3	22	64.2 ± 0.0	NS
N	*Cladonia coccifera*	Eastern Boreal Pixie-cup Lichen	NA	NA	NA	S2S3	2	76.3 ± 0.01	NS
N	*Cladonia deformis*	Lesser Sulphur-cup Lichen	NA	NA	NA	S2S3	13	17.2 ± 2.6	NS
N	*Cladonia phyllophora*	Felt Lichen	NA	NA	NA	S2S3	3	46.2 ± 4.5	NS
N	*Hypotrachyna afrorevoluta*	Pustulate Revolute Loop Lichen	NA	NA	NA	S2S3	92	17.2 ± 0.2	NS
N	*Usnea flammea*	Coastal Bushy Beard Lichen	NA	NA	NA	S2S3	3	41.5 ± 0.05	NS
N	*Jubula pennsylvanica*	a liverwort	NA	NA	NA	S3	10	12.6 ± 0.03	NS
N	*Dicranella palustris*	Drooping-Leaved Fork Moss	NA	NA	NA	S3	7	49.0 ± 5.0	NB
N	*Anomodon tristis*	a Moss	NA	NA	NA	S3	14	17.1 ± 0.01	NS
N	*Tetraplodon angustatus*	Toothed-leaved Nitrogen Moss	NA	NA	NA	S3	3	38.3 ± 0.1	NS
N	*Rostania occultata*	Crusted Tarpaper Lichen	NA	NA	NA	S3	11	21.1 ± 0.5	NS
N	*Collema nigrescens*	Blistered Tarpaper Lichen	NA	NA	NA	S3	64	33.8 ± 0.1	NS
N	*Solorina saccata*	Woodland Owl Lichen	NA	NA	NA	S3	26	48.8 ± 1.0	NB
N	*Fuscopannaria ahlneri*	Roughened Shingle Lichen	NA	NA	NA	S3	23	12.9 ± 1.0	NS
N	*Scytinium lichenoides*	Tattered Jellyskin Lichen	NA	NA	NA	S3	49	41.6 ± 4.0	NS
N	*Leptogium milligranum*	Stretched Jellyskin Lichen	NA	NA	NA	S3	33	44.3 ± 0.01	NS
N	*Nephroma bellum*	Naked Kidney Lichen	NA	NA	NA	S3	27	22.6 ± 8.0	NS
N	*Placynthium nigrum*	Common Ink Lichen	NA	NA	NA	S3	4	48.8 ± 1.0	NB
N	*Platismatia norvegica*	Oldgrowth Rag Lichen	NA	NA	NA	S3	1	46.9 ± 0.01	NS
N	*Punctelia appalachensis*	Appalachian Speckleback Lichen	NA	NA	NA	S3	235	13.2 ± 0.2	NS
N	*Viridothelium virens*	a lichen	NA	NA	NA	S3	4	24.6 ± 0.5	NS
N	*Ephebe lanata*	Waterside Rockshag Lichen	NA	NA	NA	S3	16	48.6 ± 1.0	NB
N	*Phaeophyscia adiastola*	Powder-tipped Shadow Lichen	NA	NA	NA	S3	23	40.0 ± 1.0	NS
N	*Phaeophyscia pusilloides*	Pompom-tipped Shadow Lichen	NA	NA	NA	S3	22	24.6 ± 0.5	NS
N	*Peltigera collina*	Tree Pelt Lichen	NA	NA	NA	S3	7	48.8 ± 0.01	NS
N	*Metzgeria conjugata*	Rock Veilwort	NA	NA	NA	S3?	2	21.8 ± 0.01	NS
N	*Barbula convoluta*	Lesser Bird's-claw Beard Moss	NA	NA	NA	S3?	8	61.2 ± 0.2	NS
N	*Calliergon giganteum*	Giant Spear Moss	NA	NA	NA	S3?	3	49.7 ± 3.0	NS
N	*Drummondia prorepens*	a Moss	NA	NA	NA	S3?	10	41.6 ± 0.01	NS
N	*Elodium blandowii*	Blandow's Bog Moss	NA	NA	NA	S3?	5	47.6 ± 3.0	NS
N	*Mnium stellare*	Star Leafy Moss	NA	NA	NA	S3?	3	30.1 ± 1.6	NS
N	*Sphagnum riparium*	Streamside Peat Moss	NA	NA	NA	S3?	4	33.2 ± 1.5	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Pseudotaxiphyllum distichaceum*	a Moss	NA	NA	NA	S3?	2	22.8 ± 0.01	NS
N	*Hypotrachyna catawbiensis*	Powder-tipped Antler Lichen	NA	NA	NA	S3?	56	17.2 ± 0.01	NS
N	*Cladonia stygia*	Black-footed Reindeer Lichen	NA	NA	NA	S3?	46	10.4 ± 8.0	NS
N	*Anomodon rugelii*	Rugel's Anomodon Moss	NA	NA	NA	S3S4	6	24.3 ± 0.6	NS
N	*Gemmabryum violaceum*	Violet Bryum	NA	NA	NA	S3S4	4	17.8 ± 3.0	NS
N	*Dichelyma capillaceum*	Hairlike Dichelyma Moss	NA	NA	NA	S3S4	4	59.1 ± 0.2	NS
N	*Dicranella schreberiana*	Schreber's Forklet Moss	NA	NA	NA	S3S4	4	27.2 ± 0.2	NS
N	*Dicranum leioneuron*	a Dicranum Moss	NA	NA	NA	S3S4	2	54.0 ± 0.1	NB
N	*Encalypta ciliata*	Fringed Extinguisher Moss	NA	NA	NA	S3S4	3	17.2 ± 1.0	NS
N	*Encalypta procera*	Slender Extinguisher Moss	NA	NA	NA	S3S4	10	39.2 ± 3.2	NS
N	*Fissidens taxifolius*	Yew-leaved Pocket Moss	NA	NA	NA	S3S4	22	31.4 ± 0.02	NS
N	*Myurella julacea*	Small Mouse-tail Moss	NA	NA	NA	S3S4	4	48.8 ± 0.1	NB
N	*Sphagnum platyphyllum*	Flat-leaved Peat Moss	NA	NA	NA	S3S4	4	76.0 ± 0.01	NS
N	*Splachnum ampullaceum*	Cruet Dung Moss	NA	NA	NA	S3S4	4	41.5 ± 0.1	NS
N	*Thamnobryum alleghaniense*	a Moss	NA	NA	NA	S3S4	47	21.8 ± 0.01	NS
N	*Tomentypnum nitens*	Golden Fuzzy Fen Moss	NA	NA	NA	S3S4	3	43.9 ± 0.01	NS
N	*Schistidium agassizii*	Elf Bloom Moss	NA	NA	NA	S3S4	4	52.4 ± 1.2	NB
N	*Hylocomiastrum pyrenaicum*	a Feather Moss	NA	NA	NA	S3S4	4	39.2 ± 3.2	NS
N	*Bryoria pseudofuscescens*	Mountain Horsehair Lichen	NA	NA	NA	S3S4	27	17.7 ± 1.0	NS
N	*Collema leptaleum*	Crumpled Bat's Wing Lichen	NA	NA	NA	S3S4	150	44.2 ± 0.03	NS
N	*Enchylium tenax*	Soil Tarpaper Lichen	NA	NA	NA	S3S4	13	37.0 ± 0.03	NS
N	*Sticta fuliginosa*	Peppered Moon Lichen	NA	NA	NA	S3S4	32	17.3 ± 0.01	NS
N	*Arctoparmelia incurva*	Finger Ring Lichen	NA	NA	NA	S3S4	11	77.1 ± 0.01	NS
N	*Scytinium teretiusculum*	Curly Jellyskin Lichen	NA	NA	NA	S3S4	27	14.3 ± 0.01	NS
N	*Leptogium acadiense*	Acadian Jellyskin Lichen	NA	NA	NA	S3S4	137	13.5 ± 0.2	NS
N	*Scytinium subtile*	Appressed Jellyskin Lichen	NA	NA	NA	S3S4	61	31.2 ± 0.01	NS
N	*Felipes leucopellaeus*	a lichen	NA	NA	NA	S3S4	1	36.4 ± 0.2	NS
N	*Bacidia laurocerasi*	a Lichen	NA	NA	NA	S3S4	5	36.4 ± 0.2	NS
N	*Cladonia floerkeana*	Gritty British Soldiers Lichen	NA	NA	NA	S3S4	10	45.1 ± 0.2	NB
N	*Vahliella leucophaea*	Shelter Shingle Lichen	NA	NA	NA	S3S4	52	27.8 ± 0.01	NS
N	*Heterodermia speciosa*	Powdered Fringe Lichen	NA	NA	NA	S3S4	175	10.9 ± 0.2	NS
N	*Leptogium corticola*	Blistered Jellyskin Lichen	NA	NA	NA	S3S4	80	46.1 ± 0.2	NS
N	*Melanohalea olivacea*	Spotted Camouflage Lichen	NA	NA	NA	S3S4	11	29.9 ± 1.0	NS
N	*Parmelia fertilis*	Fertile Shield Lichen	NA	NA	NA	S3S4	68	12.9 ± 1.0	NS
N	*Parmeliopsis hyperopta*	Gray Starburst Lichen	NA	NA	NA	S3S4	10	38.9 ± 0.5	NS
N	*Parmotrema perlatum*	Powdered Ruffle Lichen	NA	NA	NA	S3S4	35	17.0 ± 0.01	NS
N	*Peltigera hymenina*	Cloudy Pelt Lichen	NA	NA	NA	S3S4	1	41.6 ± 1.5	NS
N	*Coccocarpia palmicola*	Salted Shell Lichen	NA	NA	NA	S3S4	46	49.0 ± 1.0	NB
N	*Stereocaulon condensatum*	Granular Soil Foam Lichen	NA	NA	NA	S3S4	36	3.3 ± 0.01	NS
N	*Physcia caesia*	Blue-gray Rosette Lichen	NA	NA	NA	S3S4	3	27.5 ± 0.03	NS
N	*Anaptychia palmulata*	Shaggy Fringed Lichen	NA	NA	NA	S3S4	432	12.7 ± 0.01	NS
N	*Evernia prunastri*	Valley Oakmoss Lichen	NA	NA	NA	S3S4	70	21.4 ± 0.05	NS
N	*Heterodermia neglecta*	Fringe Lichen	NA	NA	NA	S3S4	164	17.1 ± 0.01	NS
N	*Riccardia multifida*	Delicate Germanderwort	NA	NA	NA	S4?	3	55.7 ± 0.1	NB

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Orthotrichum anomalum*	Anomalous Bristle Moss	NA	NA	NA	S4?	11	48.6 ± 0.1	NB
P	*Fraxinus nigra*	Black Ash	Threatened	NA	Threatened	S2	1708	15.0 ± 0.01	NS
P	*Clethra alnifolia*	Sweet Pepperbush	Threatened	Threatened	Vulnerable	S2	1	42.0 ± 1.25	NS
P	*Lilaeopsis chinensis*	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S3	74	56.2 ± 1.5	NS
P	*Isoetes prototypus*	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3	19	35.9 ± 0.05	NS
P	*Floerkea proserpinacoides*	False Mermaidweed	Not At Risk	NA	NA	S2S3	39	36.4 ± 1.5	NS
P	*Acer saccharinum*	Silver Maple	NA	NA	NA	S1	63	40.7 ± 8.21	NS
P	*Osmorhiza depauperata*	Blunt Sweet Cicely	NA	NA	NA	S1	1	43.1 ± 5.0	NS
P	*Antennaria rosea ssp. arida*	Rosy Pussytoes	NA	NA	NA	S1	2	35.5 ± 0.2	NS
P	*Turritis glabra*	Tower Mustard	NA	NA	NA	S1	2	61.5 ± 0.5	NB
P	*Lobelia spicata*	Pale-Spiked Lobelia	NA	NA	NA	S1	13	7.8 ± 5.0	NS
P	*Silene antirrhina*	Sleepy Catchfly	NA	NA	NA	S1	5	66.6 ± 0.01	NS
P	*Stellaria crassifolia*	Fleshy Stitchwort	NA	NA	NA	S1	2	84.0 ± 5.0	NB
P	*Hudsonia tomentosa*	Woolly Beach-heath	NA	NA	NA	S1	10	81.0 ± 0.6	NB
P	*Callitriche hermaphroditica*	Northern Water-starwort	NA	NA	NA	S1	5	39.3 ± 0.1	NB
P	*Elatine americana*	American Waterwort	NA	NA	NA	S1	3	39.4 ± 1.5	NS
P	*Astragalus robbinsii*	Robbins' Milkvetch	NA	NA	NA	S1	5	35.5 ± 0.2	NS
P	*Astragalus robbinsii var. minor*	Robbins' Milkvetch	NA	NA	NA	S1	35	33.6 ± 2.0	NS
P	*Ribes americanum*	Wild Black Currant	NA	NA	NA	S1	20	39.5 ± 1.0	NB
P	*Utricularia ochroleuca*	Yellowish-white Bladderwort	NA	NA	NA	S1	38	51.8 ± 0.01	NS
P	*Fraxinus pennsylvanica*	Red Ash	NA	NA	NA	S1	29	28.9 ± 0.2	NS
P	*Polygonum achoreum*	Leathery Knotweed	NA	NA	NA	S1	4	46.5 ± 0.03	NB
P	*Persicaria careyi*	Carey's Smartweed	NA	NA	NA	S1	1	98.2 ± 3.0	NS
P	*Podostemum ceratophyllum*	Horn-leaved Riverweed	NA	NA	NA	S1	3	99.5 ± 0.25	NS
P	*Montia fontana*	Water Blinks	NA	NA	NA	S1	3	32.8 ± 0.25	NS
P	*Lysimachia quadrifolia*	Whorled Yellow Loosestrife	NA	NA	NA	S1	2	93.6 ± 0.01	NS
P	*Anemone parviflora*	Small-flowered Anemone	NA	NA	NA	S1	17	46.6 ± 0.5	NB
P	*Clematis occidentalis*	Purple Clematis	NA	NA	NA	S1	15	35.0 ± 0.5	NS
P	*Ranunculus pensylvanicus*	Pennsylvania Buttercup	NA	NA	NA	S1	41	45.3 ± 0.01	NS
P	*Thalictrum confine*	Northern Meadow-rue	NA	NA	NA	S1	2	19.5 ± 5.0	NS
P	*Amelanchier nantucketensis*	Nantucket Serviceberry	NA	NA	NA	S1	1	9.2 ± 1.0	NS
P	*Salix myrtillifolia*	Blueberry Willow	NA	NA	NA	S1	29	47.3 ± 0.5	NB
P	*Agalinis tenuifolia*	Slender Agalinis	NA	NA	NA	S1	2	70.7 ± 0.01	NB
P	*Scrophularia lanceolata*	Lance-leaved Figwort	NA	NA	NA	S1	4	68.5 ± 1.0	NS
P	*Carex garberi*	Garber's Sedge	NA	NA	NA	S1	2	92.4 ± 0.5	NB
P	*Carex granularis*	Limestone Meadow Sedge	NA	NA	NA	S1	4	59.7 ± 0.03	NS
P	*Carex laxiflora*	Loose-Flowered Sedge	NA	NA	NA	S1	3	27.0 ± 1.0	NS
P	*Carex normalis*	a Sedge	NA	NA	NA	S1	1	28.5 ± 0.2	NS
P	*Carex ormostachya*	Necklace Spike Sedge	NA	NA	NA	S1	7	49.3 ± 0.01	NB
P	*Carex plantaginea*	Plantain-Leaved Sedge	NA	NA	NA	S1	16	50.1 ± 2.19	NB
P	*Carex prairea*	Prairie Sedge	NA	NA	NA	S1	2	39.4 ± 1.0	NS
P	*Carex tenuiflora*	Sparse-Flowered Sedge	NA	NA	NA	S1	3	56.2 ± 0.01	NS
P	*Carex tincta*	Tinged Sedge	NA	NA	NA	S1	6	43.9 ± 0.01	NB
P	*Carex viridula var. saxilittoralis*	Greenish Sedge	NA	NA	NA	S1	1	27.6 ± 0.03	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Carex grisea*	Inflated Narrow-leaved Sedge	NA	NA	NA	S1	1	92.7 ± 5.0	NB
P	*Scirpus atrovirens*	Dark-green Bulrush	NA	NA	NA	S1	5	60.8 ± 0.03	NS
P	*Schoenoplectus torreyi*	Torrey's Bulrush	NA	NA	NA	S1	2	76.0 ± 0.01	NS
P	*Elodea nuttallii*	Nuttall's Waterweed	NA	NA	NA	S1	2	48.0 ± 0.2	NS
P	*Juncus secundus*	Secund Rush	NA	NA	NA	S1	1	49.1 ± 0.1	NS
P	*Juncus vaseyi*	Vasey Rush	NA	NA	NA	S1	11	30.0 ± 0.01	NS
P	*Trillium grandiflorum*	White Trillium	NA	NA	NA	S1	5	37.8 ± 0.5	NS
P	*Malaxis monophyllos var. brachypoda*	North American White Adder's-mouth	NA	NA	NA	S1	8	17.1 ± 0.01	NS
P	*Spiranthes casei var. casei*	Case's Ladies'-Tresses	NA	NA	NA	S1	1	64.1 ± 0.1	NS
P	*Calamagrostis stricta ssp. inexpansa*	Slim-stemmed Reed Grass	NA	NA	NA	S1	1	55.3 ± 1.0	NB
P	*Elymus hystrix*	Spreading Wild Rye	NA	NA	NA	S1	15	43.2 ± 0.05	NS
P	*Torreyochloa pallida var. pallida*	Pale False Manna Grass	NA	NA	NA	S1	1	63.0 ± 1.5	NS
P	*Graphephorum melicoides*	Purple False Oats	NA	NA	NA	S1	3	49.0 ± 0.01	NB
P	*Adiantum pedatum*	Northern Maidenhair Fern	NA	NA	NA	S1	27	43.2 ± 0.05	NS
P	*Equisetum palustre*	Marsh Horsetail	NA	NA	NA	S1	2	44.4 ± 0.2	NS
P	*Selaginella rupestris*	Rock Spikemoss	NA	NA	NA	S1	11	61.2 ± 0.01	NS
P	*Solidago hispida*	Hairy Goldenrod	NA	NA	NA	S1?	1	72.2 ± 10.0	NB
P	*Carex pensylvanica*	Pennsylvania Sedge	NA	NA	NA	S1?	4	61.2 ± 0.2	NS
P	*Carex rostrata*	Narrow-leaved Beaked Sedge	NA	NA	NA	S1?	1	61.0 ± 0.01	NB
P	*Bolboschoenus robustus*	Sturdy Bulrush	NA	NA	NA	S1?	2	78.1 ± 5.0	NS
P	*Juncus anthelatus*	Greater Poverty Rush	NA	NA	NA	S1?	1	84.5 ± 0.01	NS
P	*Allium schoenoprasum*	Wild Chives	NA	NA	NA	S1?	16	40.5 ± 0.2	NB
P	*Allium schoenoprasum var. sibiricum*	Wild Chives	NA	NA	NA	S1?	2	37.6 ± 1.5	NB
P	*Cypripedium arietinum*	Ram's-Head Lady's-Slipper	NA	NA	Endangered	S1S2	450	48.4 ± 0.01	NS
P	*Sanicula odorata*	Clustered Sanicle	NA	NA	NA	S1S2	10	48.6 ± 1.0	NS
P	*Draba glabella*	Rock Whitlow-Grass	NA	NA	NA	S1S2	10	12.9 ± 7.07	NS
P	*Proserpinaca intermedia*	Intermediate Mermaidweed	NA	NA	NA	S1S2	1	64.0 ± 2.0	NS
P	*Anemone virginiana var. alba*	Virginia Anemone	NA	NA	NA	S1S2	5	85.3 ± 7.07	NS
P	*Carex haydenii*	Hayden's Sedge	NA	NA	NA	S1S2	12	39.1 ± 1.0	NS
P	*Calamagrostis stricta ssp. stricta*	Slim-stemmed Reed Grass	NA	NA	NA	S1S2	14	16.7 ± 7.07	NS
P	*Woodsia alpina*	Alpine Cliff Fern	NA	NA	NA	S1S2	6	50.3 ± 0.01	NB
P	*Selaginella selaginoides*	Low Spikemoss	NA	NA	NA	S1S2	8	48.6 ± 0.4	NB
P	*Carex vacillans*	Estuarine Sedge	NA	NA	NA	S1S3	5	42.3 ± 0.01	NB
P	*Crocanthemum canadense*	Long-branched Frostweed	NA	NA	Endangered	S2	135	57.5 ± 0.2	NS
P	*Zizia aurea*	Golden Alexanders	NA	NA	NA	S2	35	31.9 ± 1.0	NS
P	*Rudbeckia laciniata*	Cut-Leaved Coneflower	NA	NA	NA	S2	57	7.3 ± 0.6	NS
P	*Solidago multiradiata*	Multi-rayed Goldenrod	NA	NA	NA	S2	24	47.3 ± 0.1	NB
P	*Ageratina altissima*	White Snakeroot	NA	NA	NA	S2	68	23.3 ± 0.03	NS
P	*Arabis pycnocarpa*	Cream-flowered Rockcress	NA	NA	NA	S2	13	26.7 ± 0.1	NS
P	*Cardamine maxima*	Large Toothwort	NA	NA	NA	S2	25	17.4 ± 0.01	NS
P	*Stellaria humifusa*	Saltmarsh Starwort	NA	NA	NA	S2	16	13.6 ± 1.0	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Suaeda rolandii*	Roland's Sea-Blite	NA	NA	NA	S2	22	39.6 ± 2.0	NS
P	*Hudsonia ericoides*	Pinebarren Golden Heather	NA	NA	NA	S2	173	44.5 ± 7.07	NS
P	*Desmodium canadense*	Canada Tick-trefoil	NA	NA	NA	S2	19	29.0 ± 0.03	NS
P	*Hylodesmum glutinosum*	Large Tick-trefoil	NA	NA	NA	S2	39	42.1 ± 7.07	NS
P	*Oxytropis campestris*	Field Locoweed	NA	NA	NA	S2	1	35.5 ± 0.2	NS
P	*Oxytropis campestris var. johannensis*	Field Locoweed	NA	NA	NA	S2	32	34.8 ± 1.0	NS
P	*Hepatica americana*	Round-lobed Hepatica	NA	NA	NA	S2	105	43.7 ± 1.6	NS
P	*Ranunculus sceleratus*	Cursed Buttercup	NA	NA	NA	S2	2	94.1 ± 0.2	NS
P	*Galium boreale*	Northern Bedstraw	NA	NA	NA	S2	11	11.3 ± 0.1	NS
P	*Comandra umbellata*	Bastard's Toadflax	NA	NA	NA	S2	11	80.1 ± 1.0	NB
P	*Dirca palustris*	Eastern Leatherwood	NA	NA	NA	S2	86	48.1 ± 0.01	NS
P	*Carex chordorrhiza*	Creeping Sedge	NA	NA	NA	S2	59	38.2 ± 0.01	NB
P	*Carex gynocrates*	Northern Bog Sedge	NA	NA	NA	S2	1	85.4 ± 0.01	NB
P	*Carex pellita*	Woolly Sedge	NA	NA	NA	S2	4	72.7 ± 0.01	NS
P	*Carex livida*	Livid Sedge	NA	NA	NA	S2	39	52.1 ± 0.01	NS
P	*Juncus greenei*	Greene's Rush	NA	NA	NA	S2	9	44.3 ± 0.4	NB
P	*Juncus alpinoarticulatus ssp. americanus*	Northern Green Rush	NA	NA	NA	S2	2	51.4 ± 0.02	NB
P	*Allium tricoccum*	Wild Leek	NA	NA	NA	S2	156	20.6 ± 1.0	NS
P	*Lilium canadense*	Canada Lily	NA	NA	NA	S2	135	7.5 ± 1.0	NS
P	*Cypripedium parviflorum var. pubescens*	Yellow Lady's-slipper	NA	NA	NA	S2	36	38.4 ± 5.0	NS
P	*Cypripedium parviflorum var. makasin*	Small Yellow Lady's-Slipper	NA	NA	NA	S2	13	35.0 ± 7.07	NS
P	*Cypripedium reginae*	Showy Lady's-Slipper	NA	NA	NA	S2	95	45.3 ± 7.07	NS
P	*Platanthera flava var. flava*	Southern Rein Orchid	NA	NA	NA	S2	1	42.0 ± 7.07	NS
P	*Platanthera flava var. herbiola*	Pale Green Orchid	NA	NA	NA	S2	19	44.6 ± 1.0	NS
P	*Platanthera macrophylla*	Large Round-Leaved Orchid	NA	NA	NA	S2	18	34.8 ± 5.0	NS
P	*Bromus latiglumis*	Broad-Glumed Brome	NA	NA	NA	S2	27	49.0 ± 0.01	NS
P	*Cinna arundinacea*	Sweet Wood Reed Grass	NA	NA	NA	S2	1	46.6 ± 0.01	NS
P	*Elymus wiegandii*	Wiegand's Wild Rye	NA	NA	NA	S2	11	48.7 ± 0.01	NS
P	*Festuca subverticillata*	Nodding Fescue	NA	NA	NA	S2	16	11.2 ± 0.1	NS
P	*Piptatheropsis pungens*	Slender Ricegrass	NA	NA	NA	S2	6	50.8 ± 1.0	NB
P	*Cryptogramma stelleri*	Steller's Rockbrake	NA	NA	NA	S2	6	37.8 ± 0.01	NS
P	*Rumex persicarioides*	Peach-leaved Dock	NA	NA	NA	S2?	2	73.1 ± 1.0	NB
P	*Crataegus submollis*	Quebec Hawthorn	NA	NA	NA	S2?	5	44.6 ± 7.07	NS
P	*Carex peckii*	White-Tinged Sedge	NA	NA	NA	S2?	10	49.0 ± 0.01	NS
P	*Huperzia selago*	Northern Firmoss	NA	NA	NA	S2?	1	53.3 ± 1.0	NS
P	*Osmorhiza longistylis*	Smooth Sweet Cicely	NA	NA	NA	S2S3	27	11.3 ± 5.0	NS
P	*Bidens hyperborea*	Estuary Beggarticks	NA	NA	NA	S2S3	33	54.7 ± 0.01	NS
P	*Lactuca hirsuta*	Hairy Lettuce	NA	NA	NA	S2S3	2	43.2 ± 2.5	NS
P	*Draba arabisans*	Rock Whitlow-Grass	NA	NA	NA	S2S3	42	11.2 ± 0.1	NS
P	*Oxybasis rubra*	Red Goosefoot	NA	NA	NA	S2S3	2	92.6 ± 0.01	NB

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Hypericum majus*	Large St John's-wort	NA	NA	NA	S2S3	22	41.8 ± 0.01	NS
P	*Hypericum x dissimulatum*	Disguised St. John's-wort	NA	NA	NA	S2S3	7	52.4 ± 0.5	NS
P	*Euphorbia polygonifolia*	Seaside Spurge	NA	NA	NA	S2S3	3	75.3 ± 0.5	NB
P	*Myriophyllum farwellii*	Farwell's Water Milfoil	NA	NA	NA	S2S3	12	38.3 ± 0.25	NB
P	*Hedeoma pulegioides*	American False Pennyroyal	NA	NA	NA	S2S3	18	23.1 ± 1.0	NS
P	*Oenothera fruticosa ssp. tetragona*	Narrow-leaved Evening Primrose	NA	NA	NA	S2S3	4	42.7 ± 0.05	NS
P	*Senega polygama*	Racemed Milkwort	NA	NA	NA	S2S3	1	55.8 ± 0.03	NS
P	*Polygonum aviculare ssp. buxiforme*	Box Knotweed	NA	NA	NA	S2S3	8	27.2 ± 7.07	NS
P	*Rumex triangulivalvis*	Triangular-valve Dock	NA	NA	NA	S2S3	19	11.4 ± 1.0	NS
P	*Primula mistassinica*	Mistassini Primrose	NA	NA	NA	S2S3	18	85.3 ± 7.07	NS
P	*Anemonastrum canadense*	Canada Anemone	NA	NA	NA	S2S3	18	40.3 ± 0.2	NB
P	*Amelanchier fernaldii*	Fernald's Serviceberry	NA	NA	NA	S2S3	2	48.4 ± 5.0	NS
P	*Salix pellita*	Satiny Willow	NA	NA	NA	S2S3	10	7.0 ± 0.8	NS
P	*Gratiola neglecta*	Clammy Hedge-Hyssop	NA	NA	NA	S2S3	24	53.1 ± 0.5	NS
P	*Boehmeria cylindrica*	Small-spike False-nettle	NA	NA	NA	S2S3	11	69.5 ± 0.2	NS
P	*Carex capillaris*	Hairlike Sedge	NA	NA	NA	S2S3	21	22.1 ± 0.02	NS
P	*Carex comosa*	Bearded Sedge	NA	NA	NA	S2S3	17	34.7 ± 1.0	NS
P	*Carex hystericina*	Porcupine Sedge	NA	NA	NA	S2S3	21	29.1 ± 0.1	NS
P	*Carex scirpoidea*	Scirpuslike Sedge	NA	NA	NA	S2S3	6	82.4 ± 0.01	NB
P	*Eleocharis ovata*	Ovate Spikerush	NA	NA	NA	S2S3	24	47.1 ± 0.05	NS
P	*Scirpus pedicellatus*	Stalked Bulrush	NA	NA	NA	S2S3	8	54.7 ± 0.1	NB
P	*Vallisneria americana*	Wild Celery	NA	NA	NA	S2S3	13	34.6 ± 0.01	NB
P	*Najas gracillima*	Thread-Like Naiad	NA	NA	NA	S2S3	2	70.7 ± 0.45	NS
P	*Spiranthes casei var. novaescotiae*	Case's Ladies'-Tresses	NA	NA	NA	S2S3	1	84.7 ± 0.5	NS
P	*Spiranthes lucida*	Shining Ladies'-Tresses	NA	NA	NA	S2S3	16	42.0 ± 7.07	NS
P	*Calamagrostis stricta*	Slim-stemmed Reed Grass	NA	NA	NA	S2S3	10	33.1 ± 2.5	NB
P	*Potamogeton friesii*	Fries' Pondweed	NA	NA	NA	S2S3	13	35.6 ± 0.1	NS
P	*Cystopteris laurentiana*	Laurentian Bladder Fern	NA	NA	NA	S2S3	1	80.1 ± 1.0	NB
P	*Woodsia glabella*	Smooth Cliff Fern	NA	NA	NA	S2S3	71	7.6 ± 1.0	NS
P	*Botrychium lanceolatum ssp. angustisegmentum*	Narrow Triangle Moonwort	NA	NA	NA	S2S3	23	32.2 ± 0.01	NS
P	*Botrychium simplex*	Least Moonwort	NA	NA	NA	S2S3	5	37.8 ± 0.5	NS
P	*Ophioglossum pusillum*	Northern Adder's-tongue	NA	NA	NA	S2S3	8	33.7 ± 1.0	NB
P	*Thuja occidentalis*	Eastern White Cedar	NA	NA	Vulnerable	S3	1290	30.2 ± 0.2	NS
P	*Angelica atropurpurea*	Purple-stemmed Angelica	NA	NA	NA	S3	2	61.4 ± 2.7	NS
P	*Conioselinum chinense*	Chinese Hemlock-parsley	NA	NA	NA	S3	22	17.2 ± 0.01	NS
P	*Antennaria parlinii ssp. fallax*	Parlin's Pussytoes	NA	NA	NA	S3	12	44.9 ± 0.1	NS
P	*Erigeron philadelphicus*	Philadelphia Fleabane	NA	NA	NA	S3	16	37.0 ± 0.5	NS
P	*Hieracium robinsonii*	Robinson's Hawkweed	NA	NA	NA	S3	21	46.4 ± 0.5	NB
P	*Iva frutescens*	Big-leaved Marsh-elder	NA	NA	NA	S3	161	28.9 ± 0.02	NS
P	*Senecio pseudoarnica*	Seabeach Ragwort	NA	NA	NA	S3	1	85.3 ± 7.07	NS
P	*Symphyotrichum boreale*	Boreal Aster	NA	NA	NA	S3	6	19.4 ± 7.07	NS
P	*Symphyotrichum ciliolatum*	Fringed Blue Aster	NA	NA	NA	S3	81	7.0 ± 1.0	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Symphyotrichum undulatum*	Wavy-leaved Aster	NA	NA	NA	S3	19	42.6 ± 1.0	NS
P	*Impatiens pallida*	Pale Jewelweed	NA	NA	NA	S3	15	4.1 ± 0.45	NS
P	*Caulophyllum thalictroides*	Blue Cohosh	NA	NA	NA	S3	117	19.5 ± 1.0	NS
P	*Betula michauxii*	Michaux's Dwarf Birch	NA	NA	NA	S3	18	80.1 ± 0.5	NS
P	*Betula pumila*	Bog Birch	NA	NA	NA	S3	20	21.0 ± 1.0	NS
P	*Cardamine parviflora*	Small-flowered Bittercress	NA	NA	NA	S3	13	21.2 ± 0.01	NS
P	*Boechera stricta*	Drummond's Rockcress	NA	NA	NA	S3	28	20.6 ± 0.1	NS
P	*Palustricodon aparinoides*	Marsh Bellflower	NA	NA	NA	S3	41	7.0 ± 1.0	NS
P	*Stellaria longifolia*	Long-leaved Starwort	NA	NA	NA	S3	10	38.8 ± 0.01	NS
P	*Triosteum aurantiacum*	Orange-fruited Tinker's Weed	NA	NA	NA	S3	51	59.2 ± 0.01	NS
P	*Viburnum edule*	Squashberry	NA	NA	NA	S3	15	48.1 ± 0.03	NB
P	*Cuscuta acadiana*	Acadian Dodder	NA	NA	NA	S3	4	82.2 ± 0.01	NB
P	*Empetrum eamesii*	Pink Crowberry	NA	NA	NA	S3	1	95.8 ± 0.01	NS
P	*Geranium bicknellii*	Bicknell's Crane's-bill	NA	NA	NA	S3	38	11.3 ± 5.0	NS
P	*Myriophyllum verticillatum*	Whorled Water Milfoil	NA	NA	NA	S3	19	29.3 ± 1.5	NS
P	*Epilobium densum*	Downy Willowherb	NA	NA	NA	S3	43	36.7 ± 1.5	NS
P	*Conopholis americana*	American Cancer-root	NA	NA	NA	S3	20	34.8 ± 0.01	NS
P	*Persicaria arifolia*	Halberd-leaved Tearthumb	NA	NA	NA	S3	129	4.8 ± 10.0	NS
P	*Plantago rugelii*	Rugel's Plantain	NA	NA	NA	S3	14	30.3 ± 0.01	NS
P	*Primula laurentiana*	Laurentian Primrose	NA	NA	NA	S3	76	22.3 ± 0.01	NS
P	*Samolus parviflorus*	Seaside Brookweed	NA	NA	NA	S3	53	55.2 ± 0.01	NS
P	*Pyrola minor*	Lesser Pyrola	NA	NA	NA	S3	7	42.3 ± 0.2	NS
P	*Anemone quinquefolia*	Wood Anemone	NA	NA	NA	S3	81	48.6 ± 0.2	NB
P	*Anemone virginiana*	Virginia Anemone	NA	NA	NA	S3	22	55.6 ± 0.05	NS
P	*Caltha palustris*	Yellow Marsh Marigold	NA	NA	NA	S3	54	18.0 ± 0.01	NS
P	*Cephalanthus occidentalis*	Common Buttonbush	NA	NA	NA	S3	1	92.7 ± 0.01	NB
P	*Galium labradoricum*	Labrador Bedstraw	NA	NA	NA	S3	8	79.6 ± 0.01	NB
P	*Salix pedicellaris*	Bog Willow	NA	NA	NA	S3	23	45.5 ± 0.5	NS
P	*Salix sericea*	Silky Willow	NA	NA	NA	S3	21	46.1 ± 0.05	NB
P	*Saxifraga paniculata*	White Mountain Saxifrage	NA	NA	NA	S3	2	35.5 ± 0.2	NS
P	*Saxifraga paniculata ssp. laestadii*	Laestadius' Saxifrage	NA	NA	NA	S3	46	17.0 ± 0.5	NS
P	*Tiarella stolonifera*	Stoloniferous Foamflower	NA	NA	NA	S3	63	35.8 ± 5.0	NS
P	*Laportea canadensis*	Canada Wood Nettle	NA	NA	NA	S3	74	44.9 ± 0.01	NS
P	*Pilea pumila*	Dwarf Clearweed	NA	NA	NA	S3	23	46.9 ± 0.01	NB
P	*Viola nephrophylla*	Northern Bog Violet	NA	NA	NA	S3	16	27.8 ± 0.01	NS
P	*Carex adusta*	Lesser Brown Sedge	NA	NA	NA	S3	11	21.0 ± 0.01	NS
P	*Carex bebbii*	Bebb's Sedge	NA	NA	NA	S3	32	46.5 ± 0.01	NB
P	*Carex castanea*	Chestnut Sedge	NA	NA	NA	S3	4	51.2 ± 0.01	NS
P	*Carex cryptolepis*	Hidden-scaled Sedge	NA	NA	NA	S3	29	35.8 ± 1.5	NS
P	*Carex eburnea*	Bristle-leaved Sedge	NA	NA	NA	S3	33	53.4 ± 100.0	NB
P	*Carex hirtifolia*	Pubescent Sedge	NA	NA	NA	S3	45	48.7 ± 0.21	NS
P	*Carex houghtoniana*	Houghton's Sedge	NA	NA	NA	S3	21	46.5 ± 0.01	NS
P	*Carex lupulina*	Hop Sedge	NA	NA	NA	S3	66	35.9 ± 5.0	NS
P	*Carex rosea*	Rosy Sedge	NA	NA	NA	S3	58	11.3 ± 5.0	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Carex swanii*	Swan's Sedge	NA	NA	NA	S3	12	44.7 ± 0.2	NS
P	*Carex tenera*	Tender Sedge	NA	NA	NA	S3	19	1.0 ± 0.01	NS
P	*Carex tribuloides*	Blunt Broom Sedge	NA	NA	NA	S3	27	12.4 ± 1.5	NS
P	*Carex tuckermanii*	Tuckerman's Sedge	NA	NA	NA	S3	60	14.5 ± 0.03	NS
P	*Carex atratiformis*	Scabrous Black Sedge	NA	NA	NA	S3	3	12.4 ± 0.5	NS
P	*Eleocharis nitida*	Quill Spikerush	NA	NA	NA	S3	22	17.4 ± 5.0	NS
P	*Eleocharis flavescens var. olivacea*	Bright-green Spikerush	NA	NA	NA	S3	2	78.8 ± 0.01	NS
P	*Eriophorum gracile*	Slender Cottongrass	NA	NA	NA	S3	58	21.3 ± 10.0	NS
P	*Juncus stygius ssp. americanus*	Moor Rush	NA	NA	NA	S3	78	52.0 ± 0.01	NS
P	*Coeloglossum viride*	Long-bracted Frog Orchid	NA	NA	NA	S3	19	36.9 ± 0.01	NS
P	*Cypripedium parviflorum*	Yellow Lady's-slipper	NA	NA	NA	S3	639	22.1 ± 0.01	NS
P	*Goodyera pubescens*	Downy Rattlesnake-Plantain	NA	NA	NA	S3	39	46.0 ± 0.5	NS
P	*Neottia bifolia*	Southern Twayblade	NA	NA	NA	S3	114	9.3 ± 0.01	NS
P	*Platanthera flava*	Southern Rein-Orchid	NA	NA	NA	S3	1	46.4 ± 0.07	NS
P	*Platanthera hookeri*	Hooker's Orchid	NA	NA	NA	S3	88	22.2 ± 0.03	NS
P	*Platanthera huronensis*	Fragrant Green Orchid	NA	NA	NA	S3	12	37.4 ± 10.0	NS
P	*Dichanthelium linearifolium*	Narrow-leaved Panic Grass	NA	NA	NA	S3	16	45.1 ± 1.0	NS
P	*Piptatheropsis canadensis*	Canada Ricegrass	NA	NA	NA	S3	9	50.6 ± 0.01	NS
P	*Poa glauca*	Glaucous Blue Grass	NA	NA	NA	S3	25	17.1 ± 0.01	NS
P	*Stuckenia filiformis*	Thread-leaved Pondweed	NA	NA	NA	S3	2	93.3 ± 1.0	NB
P	*Potamogeton praelongus*	White-stemmed Pondweed	NA	NA	NA	S3	10	27.8 ± 0.02	NS
P	*Potamogeton richardsonii*	Richardson's Pondweed	NA	NA	NA	S3	8	36.0 ± 1.2	NS
P	*Potamogeton zosteriformis*	Flat-stemmed Pondweed	NA	NA	NA	S3	28	34.8 ± 0.01	NB
P	*Asplenium viride*	Green Spleenwort	NA	NA	NA	S3	21	6.6 ± 0.12	NS
P	*Dryopteris fragrans*	Fragrant Wood Fern	NA	NA	NA	S3	88	5.2 ± 0.03	NS
P	*Sceptridium dissectum*	Dissected Moonwort	NA	NA	NA	S3	8	6.7 ± 1.0	NS
P	*Polypodium appalachianum*	Appalachian Polypody	NA	NA	NA	S3	50	17.1 ± 0.01	NS
P	*Persicaria amphibia var. emersa*	Long-root Smartweed	NA	NA	NA	S3?	4	55.8 ± 0.03	NS
P	*Diphasiastrum x sabinifolium*	Savin-leaved Ground-cedar	NA	NA	NA	S3?	23	6.4 ± 1.5	NS
P	*Bidens vulgata*	Tall Beggarticks	NA	NA	NA	S3S4	23	10.0 ± 1.5	NS
P	*Erigeron hyssopifolius*	Hyssop-leaved Fleabane	NA	NA	NA	S3S4	137	41.8 ± 0.01	NB
P	*Hieracium paniculatum*	Panicled Hawkweed	NA	NA	NA	S3S4	20	27.4 ± 0.01	NS
P	*Bidens beckii*	Water Beggarticks	NA	NA	NA	S3S4	30	36.9 ± 0.01	NS
P	*Packera paupercula*	Balsam Groundsel	NA	NA	NA	S3S4	114	46.7 ± 0.01	NS
P	*Atriplex glabriuscula var. franktonii*	Frankton's Saltbush	NA	NA	NA	S3S4	21	28.2 ± 5.0	NS
P	*Shepherdia canadensis*	Soapberry	NA	NA	NA	S3S4	175	43.3 ± 0.54	NS
P	*Vaccinium boreale*	Northern Blueberry	NA	NA	NA	S3S4	4	27.6 ± 1.0	NS
P	*Vaccinium cespitosum*	Dwarf Bilberry	NA	NA	NA	S3S4	82	46.1 ± 0.1	NB
P	*Fagus grandifolia*	American Beech	NA	NA	NA	S3S4	1153	0.4 ± 0.04	NS
P	*Proserpinaca pectinata*	Comb-leaved Mermaidweed	NA	NA	NA	S3S4	3	6.7 ± 5.0	NS
P	*Decodon verticillatus*	Swamp Loosestrife	NA	NA	NA	S3S4	3	71.6 ± 0.1	NS
P	*Nuphar microphylla*	Small Yellow Pond-lily	NA	NA	NA	S3S4	14	39.2 ± 0.1	NB
P	*Persicaria pensylvanica*	Pennsylvania Smartweed	NA	NA	NA	S3S4	65	32.2 ± 7.07	NS

Table 8: Species within 100 km *(continued)*

Taxanomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Fallopia scandens*	Climbing False Buckwheat	NA	NA	NA	S3S4	43	22.7 ± 0.01	NS
P	*Rumex pallidus*	Seabeach Dock	NA	NA	NA	S3S4	9	12.8 ± 0.6	NS
P	*Fragaria vesca ssp. americana*	Woodland Strawberry	NA	NA	NA	S3S4	82	17.2 ± 0.01	NS
P	*Fragaria vesca*	Woodland Strawberry	NA	NA	NA	S3S4	8	32.3 ± 0.5	NB
P	*Potentilla canadensis*	Canada Cinquefoil	NA	NA	NA	S3S4	7	76.1 ± 0.02	NB
P	*Galium aparine*	Common Bedstraw	NA	NA	NA	S3S4	41	11.3 ± 3.0	NS
P	*Geocaulon lividum*	Northern Comandra	NA	NA	NA	S3S4	14	27.4 ± 0.01	NS
P	*Limosella australis*	Southern Mudwort	NA	NA	NA	S3S4	29	36.2 ± 1.0	NS
P	*Ulmus americana*	White Elm	NA	NA	NA	S3S4	228	11.9 ± 5.0	NS
P	*Viola selkirkii*	Great-Spurred Violet	NA	NA	NA	S3S4	17	34.2 ± 0.5	NB
P	*Carex argyrantha*	Silvery-flowered Sedge	NA	NA	NA	S3S4	9	20.5 ± 2.0	NS
P	*Triglochin gaspensis*	Gaspé Arrowgrass	NA	NA	NA	S3S4	8	12.8 ± 0.6	NS
P	*Juncus acuminatus*	Sharp-Fruit Rush	NA	NA	NA	S3S4	13	23.9 ± 5.0	NS
P	*Juncus subcaudatus*	Woods-Rush	NA	NA	NA	S3S4	15	43.4 ± 0.2	NS
P	*Luzula parviflora*	Small-flowered Woodrush	NA	NA	NA	S3S4	1	12.6 ± 0.6	NS
P	*Luzula parviflora ssp. melanocarpa*	Black-fruited Woodrush	NA	NA	NA	S3S4	13	35.8 ± 5.0	NS
P	*Goodyera repens*	Lesser Rattlesnake-plantain	NA	NA	NA	S3S4	40	17.9 ± 0.01	NS
P	*Liparis loeselii*	Loesel's Twayblade	NA	NA	NA	S3S4	32	37.3 ± 0.25	NS
P	*Platanthera obtusata*	Blunt-leaved Orchid	NA	NA	NA	S3S4	18	12.9 ± 10.0	NS
P	*Platanthera orbiculata*	Small Round-leaved Orchid	NA	NA	NA	S3S4	28	7.5 ± 5.0	NS
P	*Alopecurus aequalis*	Short-awned Foxtail	NA	NA	NA	S3S4	40	4.7 ± 0.5	NS
P	*Dichanthelium clandestinum*	Deer-tongue Panic Grass	NA	NA	NA	S3S4	117	42.4 ± 0.01	NS
P	*Koeleria spicata*	Narrow False Oats	NA	NA	NA	S3S4	35	17.1 ± 0.01	NS
P	*Asplenium trichomanes*	Maidenhair Spleenwort	NA	NA	NA	S3S4	30	6.5 ± 0.2	NS
P	*Equisetum pratense*	Meadow Horsetail	NA	NA	NA	S3S4	21	33.0 ± 1.0	NS
P	*Diphasiastrum complanatum*	Northern Ground-cedar	NA	NA	NA	S3S4	48	5.5 ± 1.5	NS
P	*Diphasiastrum sitchense*	Sitka Ground-cedar	NA	NA	NA	S3S4	8	32.4 ± 5.0	NB
P	*Huperzia appressa*	Mountain Firmoss	NA	NA	NA	S3S4	54	7.1 ± 1.0	NS
P	*Sceptridium multifidum*	Leathery Moonwort	NA	NA	NA	S3S4	17	7.0 ± 1.0	NS
P	*Botrychium matricariifolium*	Daisy-leaved Moonwort	NA	NA	NA	S3S4	19	7.0 ± 1.0	NS
P	*Bidens discoidea*	Swamp Beggarticks	NA	NA	NA	SH	1	63.0 ± 1.5	NS
P	*Andersonglossum boreale*	Northern Wild Comfrey	NA	NA	NA	SH	5	45.9 ± 0.1	NS
P	*Viola canadensis*	Canada Violet	NA	NA	NA	SH	2	56.7 ± 0.75	NS
P	*Iris prismatica*	Slender Blue Flag	NA	NA	NA	SH	1	55.0 ± 100.0	NS
P	*Phytolacca americana*	Common Pokeweed	NA	NA	NA	SU	3	35.2 ± 0.05	NS

5.1 Source Bibliography (100 km)

The recipient of these data shall acknowledge the AC CDC and the data sources listed below in any documents, reports, publications, or presentations in which this dataset makes a significant contribution.

Table 9: Source Bibliography (100 km)

# recs	Citation
16289	Epworth, W. 2016. Species at Risk records, 2014-2016. Fort Folly Habitat Recovery Program, 38 recs.
13704	Morrison, Guy. 2011. Maritime Shorebird Survey (MSS) database. Canadian Wildlife Service, Ottawa, 15939 surveys. 86171 recs.
8842	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
4593	Pardieck, K.L., Ziolkowski Jr., D.J., Lutmerding, M., Aponte, V.I., and Hudson, M-A.R. 2020. North American Breeding Bird Survey Dataset 1966 - 2019: U.S. Geological Survey data release, https://doi.org/10.5066/P9J6QUF6
4542	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
4316	iNaturalist.ca. 2023. iNaturalist Data Export December 2022. iNaturalist.org; iNaturalist.ca, Web site: 128634 recs.
3727	eBird. 2014. eBird Basic Dataset. Version: EBD_relNov-2014. Ithaca, New York. Nov 2014. Cornell Lab of Ornithology, 25036 recs.
3139	Berrigan, L. 2019. Maritimes Marsh Monitoring Project 2013, 2014, 2016, 2017, and 2018 data. Bird Studies Canada, Sackville, NB.
2619	iNaturalist. 2025. iNaturalist Data Export 2025. iNaturalist.ca; iNaturalist.org.
2577	iNaturalist.ca. 2025. iNaturalist Data Export December 2024. NatureServe Canada (ed.) iNaturalist.ca; iNaturalist.org, Web site: 254307.
2368	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
1689	Paquet, Julie. 2018. Atlantic Canada Shorebird Survey (ACSS) database 2012-2018. Environment Canada, Canadian Wildlife Service.
1564	Fort Folly Habitat Recovery. 2025. Species data from the 2024 field season. Fort Folly Habitat Recovery, 3488 records.
1404	eBird. 2020. eBird Basic Dataset. Version: EBD_relNov-2019. Ithaca, New York. Nov 2019, Cape Breton Bras d'Or Lakes Watershed subset. Cornell Lab of Ornithology.
1361	Fort Folly Habitat Recovery. 2026. Species data from the 2025 field season. Fort Folly Habitat Recovery, 3814 records.
1242	iNaturalist.ca. 2024. iNaturalist Data Export December 2023. iNaturalist.org; iNaturalist.ca.
1063	NS DNRR Wildlife Division. Biodiversity Investigation Reporting (BIR) SAR Record Export. Nova Scotia Department of Natural Resources and Renewables, 3071 recs.
1022	Fort Folly Habitat Recovery. 2023. FFHR species data 2023. Fort Folly Habitat Recovery, 2007 recs.
885	Patrick, A.; Horne, D.; Noseworthy, J. et. al. 2017. Field data for Nova Scotia and New Brunswick, 2015 and 2017. Nature Conservancy of Canada.
840	SwiftWatch. 2022. Total Chimney Swift counts from roost watches for the duration of the SwiftWatch program (2011-2021). Birds Canada.
756	Birds Canada. 2026. Maritimes Marsh Monitoring Program occurrences from 2025. Birds Canada, 5174 records.
674	Belliveau, A.G. 2020. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2019, 2020. E.C. Smith Herbarium.
623	Tranquilla, L. 2015. Maritimes Marsh Monitoring Project 2015 data. Bird Studies Canada, Sackville NB, 5062 recs.
622	Cameron, E. 2008. Canadian Gypsum Co. survey 2007-08. Conestoga-Rovers & Assoc., 623 recs.
573	Churchill, J.L. 2022. Atlantic Canada Conservation Data Centre Fieldwork 2022. Atlantic Canada Conservation Data Centre.
568	iNaturalist.ca. 2024. iNaturalist Data Export December 2023 botany records. iNaturalist.org; iNaturalist.ca.
553	Birds Canada. 2023. Maritimes Marsh Monitoring Program occurrences from 2022-2023. Birds Canada, 4603 records.
533	Belliveau, Alain. 2025. Field data from 2021-2025 for NS, NB and PEI. E.C. Smith Herbarium, Acadia University, 16404 records.
533	Eaton, S. 2014. Nova Scotia Wood Turtle Database. Environment and Climate Change Canada, 4843 recs.
469	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2015. Atlantic Canada Conservation Data Centre Fieldwork 2015. Atlantic Canada Conservation Data Centre, # recs.
468	Wildlife Division. 2021. Fraxinus nigra records assembled to define and model habitat. Nova Scotia Department of Natural Resources and Renewables.
428	Mersey Tobeatic Research Institute. 2024. 2024 Monarch and Blanding's Turtle Data. Mersey Tobeatic Research Institute, 20 recs.
415	Belliveau, A.G. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
384	Phinney, Lori. 2020. Pre- and post White-nose Syndrome bat acoustic monitoring, NS. Mersey Tobeatic Research Institute, 1279 recs.
378	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
375	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
357	Chapman, C.J. 2019. Atlantic Canada Conservation Data Centre 2019 botanical fieldwork. Atlantic Canada Conservation Data Centre, 11729 recs.
339	Chapman-Lam, C.J. 2022. Atlantic Canada Conservation Data Centre 2021 botanical fieldwork. Atlantic Canada Conservation Data Centre, 15099 recs.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
333	Brazner, John. 2022. Clearcut Transect Study. Nova Scotia Department of Natural Resources and Renewables Wildlife Division.
330	Newell, R.E. 2005. E.C. Smith Digital Herbarium. E.C. Smith Herbarium, Irving Biodiversity Collection, Acadia University, Web site: http://luxor.acadiau.ca/library/Herbarium/project/. 582 recs.
304	Chapman-Lam, C.J. 2021. Atlantic Canada Conservation Data Centre 2020 botanical fieldwork. Atlantic Canada Conservation Data Centre, 17309 recs.
304	Korol, Burke. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
300	McNeil, Jeffie. 2022. Wood Turtle GPS Tracking data, 2021. Mersey Tobeatic Research Institute.
298	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.
291	Klymko, J. 2018. Maritimes Butterfly Atlas database. Atlantic Canada Conservation Data Centre.
278	Churchill, J.L. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre, 907 recs.
237	Churchill, J.L.; Klymko, J.D. 2015. Chignecto and Tintamarre National Wildlife Area Bird Surveys 2015. Atlantic Canada Conservation Data Centre, 2238 recs.
236	Driscoll, Kendra Lichen specimens from Atlantic Canada. New Brunswick Museum. 2023.
230	Mazerolle, D.M. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
228	Blaney, C.S.; Mazerolle, D.M. 2012. Fieldwork 2012. Atlantic Canada Conservation Data Centre, 13,278 recs.
227	Francis MacKinnon. 2023. Multiple Environmental Assessment studies in NS - 2023. Nova Scotia Department of Natural Resources.
215	Birds Canada. 2025. Maritimes Marsh Monitoring Program occurrences from 2024. Birds Canada, 2175 records.
215	Pronych, G. & Wilson, A. 1993. Atlas of Rare Vascular Plants in Nova Scotia. Nova Scotia Museum, Halifax NS, I:1-168, II:169-331. 1446 recs.
214	McCallum Environmental Ltd. 2022. Antrim Gypsum EA/SAR Survey, 2022-2023. McCallum Environmental Ltd, 220 records.
197	Churchill, J.L. 2023. Atlantic Canada Conservation Data Centre Fieldwork 2023. Atlantic Canada Conservation Data Centre.
187	Jessica Ferguson. 2023. SAR observations for Clean Annapolis River Project - 2020-2023. Clean Annapolis River Project (CARP).
186	Benedict, B. Connell Herbarium Specimens. University New Brunswick, Fredericton. 2003.
184	Blaney, C.S. 2020. Sean Blaney 2020 field data. Atlantic Canada Conservation Data Centre, 4407 records.
183	East Coast Aquatics Inc. 2023. Year 3 (2022) Wood Turtle Monitoring Hwy 104 Sutherlands River To Antigonish.
181	Toms, B. 2018. Bat Species data from www.batconservation.ca for Nova Scotia. Mersey Tobeatic Research Institute, 547 Records.
175	Brazner, J. 2016. Nova Scotia Forested Wetland Bird Surveys. Nova Scotia Department of Lands and Forestry.
171	Clayden, S. Digitization of Wolfgang Maass Nova Scotia forest lichen collections, 1964-2004. New Brunswick Museum. 2018.
169	Paquet, Julie. 2019. Atlantic Canada Shorebird Survey ACSS database for 2019. Environment Canada, Canadian Wildlife Service.
167	Benjamin, L.K. (compiler). 2012. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 4965 recs.
165	Birds Canada. 2025. Space To Roost project - Shorebird Surveys Minas Basin. Birds Canada.
165	Brunelle, P.-M. (compiler). 2009. ADIP/MDDS Odonata Database: data to 2006 inclusive. Atlantic Dragonfly Inventory Program (ADIP), 24200 recs.
162	Epworth, W. 2012. Species at Risk records, 2009-11. Fort Folly Habitat Recovery Program, 162 recs.
162	Hagerman, Christianne. 2022. Wisqoq and Eastern White Cedar field work. E.C. Smith Herbarium, Acadia University.
159	Blaney, C.S. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
155	Belliveau, A.G. 2021. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2021. E.C. Smith Herbarium.
151	Belliveau, A.G. 2018. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2018. E.C. Smith Herbarium, 6226 recs.
151	Blaney, C.S.; Mazerolle, D.M. 2010. Fieldwork 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 15508 recs.
149	Stewart, J.I. 2010. Peregrine Falcon Surveys in New Brunswick, 2002-09. Canadian Wildlife Service, Sackville, 58 recs.
146	Chapman-Lam, Colin J. 2025. Field data from New Brunswick for the 2024 field season. Chapman-Lam, Colin J., 804 records.
143	Manthorne, A. 2014. MaritimesSwiftwatch Project database 2013-2014. Bird Studies Canada, Sackville NB, 326 recs.
139	e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
136	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database [as of 2018-03]. Mersey Tobeatic Research Institute.
132	Crowell, Iain. 2024. Fieldwork Data for NB, NS, PE in 2024. Atlantic Canada Conservation Data Centre, 7359 recs.
131	Belland, R.J. Maritimes moss records from various herbarium databases. 2014.
131	Mazerolle, D.M. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
130	Tims, J. & Craig, N. 1995. Environmentally Significant Areas in New Brunswick (NBESA). NB Dept of Environment & Nature Trust of New Brunswick Inc, 5463 recs. https://leglibbibcat.legnb.ca/e-repository/monographs/31000000054077/31000000054077.pdf.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
129	Munro, Marian K. Tracked lichen specimens, Nova Scotia Provincial Museum of Natural History Herbarium. Atlantic Canada Conservation Data Centre. 2019.
128	Spicer, C.D. 2003. Mount Allison Herbarium Database. Mount Allison University, 5939 recs.
127	MacDonald, Haley. 2022. Updates to Fraxinus nigra observations on NCC Docherty's Brook property. Nature Conservancy of Canada.
126	iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
125	Parks Canada. 2010. Specimens in or near National Parks in Atlantic Canada. Canadian National Museum, 3925 recs.
123	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2014. Atlantic Canada Conservation Data Centre Fieldwork 2014. Atlantic Canada Conservation Data Centre, # recs.
121	Birds Canada. 2023. NatureCounts Bank Swallow Data. Birds Canada, 464 recs.
119	Birds Canada. 2024. NatureCounts Bank Swallow Monitoring 2024 Data. Birds Canada.
119	McNeil, J.A. 2018. Wood Turtle records, 2018. Mersey Tobeatic Research Institute, 68 recs.
103	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2013.
100	e-Butterfly. 2019. Export of Maritimes records and photos. McFarland, K. (ed.) e-butterfly.org.
100	Sarah Cusack. Atlantic Salmon Field Survey - Black River/Irish River NB. ACAP Saint John.
99	Churchill, J.L. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
98	Sollows, M.C,. 2008. NBM Science Collections databases: mammals. New Brunswick Museum, Saint John NB, download Jan. 2008, 4983 recs.
97	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2013. Atlantic Canada Conservation Data Centre Fieldwork 2013. Atlantic Canada Conservation Data Centre, 9000+ recs.
95	Porter, Caitlin. 2021. Field data for 2020 in various locations across the Maritimes. Atlantic Canada Conservation Data Centre, 3977 records.
94	Richardson, Leif. 2018. Maritimes Bombus records from various sources. Richardson, Leif.
93	Crowell, Iain. 2025. Botany Field Data 2025. Atlantic Canada Conservation Data Centre, 6584 recs.
92	Bryson, I.C. 2020. Nova Scotia flora and lichen observations 2020. Nova Scotia Environment, 139 recs.
92	Churchill, J.L.; Walker, J. 2017. Species at Risk Surveys at Correctional Services Canada Properties in Nova Scotia and New Brunswick. Atlantic Canada Conservation Data Centre.
91	Birds Canada. 2023. Maritimes Swiftwatch project data for 2023. Pers. comm., 270 recs.
88	Blaney, C.S. 2000. Fieldwork 2000. Atlantic Canada Conservation Data Centre. Sackville NB, 1265 recs.
88	Clayden, S.R. 1998. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, 19759 recs.
87	Mersey Tobeatic Research Institute. 2023. NS Blanding's Turtle GPS Logger Data. MTRI, 87 recs.
85	Belliveau, A.G. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 10695 recs.
79	LaPaix, R.W.; Crowell, M.J.; MacDonald, M.; Neily, T.D.; Quinn, G. 2017. Stantec Nova Scotia rare plant records, 2012-2016. Stantec Consulting.
78	Staicer, Cindy. 2022. 2021 Landbird Species at Risk observations. Dalhousie University.
77	Blaney, C.S. & Mazerolle, D.M. 2011. Field data from NCC properties at Musquash Harbour NB & Goose Lake NS. Atlantic Canada Conservation Data Centre, 1739 recs.
77	Nature Conservancy of Canada. 2022. NCC Field data for Nova Scotia. Nature Conservancy of Canada.
77	Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.
74	McNeil, J.A. 2016. Blandings Turtle (Emydoidea blandingii), Eastern Ribbonsnake (Thamnophis sauritus), Wood Turtle (Glyptemys insculpta), and Snapping Turtle (Chelydra serpentina) sightings, 2016. Mersey Tobeatic Research Institute, 774 records.
72	NatureServe Canada. 2019. iNaturalist Maritimes Butterfly Records. iNaturalist.org and iNaturalist.ca.
71	Benedict, B. Connell Herbarium Specimens (Data) . University New Brunswick, Fredericton. 2003.
70	Blaney, C.S. 2025. Atlantic Canada Conservation Data Centre fieldwork from 2025 in NB and NS. Atlantic Canada Conservation Data Centre, 4552 records.
68	Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
67	Birds Canada. 2022. Maritimes Swiftwatch project data for 2022. Pers. comm., 155 records.
64	Nussey, Pat & NCC staff. 2019. AEI tracked species records, 2016-2019. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 333.
62	iNaturalist. 2020. iNaturalist butterfly records selected for the Maritimes Butterfly Atlas. iNaturalist.
60	Belliveau, A.G. 2014. Plant Records from Southern and Central Nova Scotia. Atlantic Canada Conservation Data Centre, 919 recs.
60	Brooks, Fiona. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
60	Roland, A.E. & Smith, E.C. 1969. The Flora of Nova Scotia, 1st Ed. Nova Scotia Museum, Halifax, 743pp.
59	Birds Canada. 2024. Chimney swift observations 2024. Birds Canada, 220 records.
59	Klymko, John. 2022. Atlantic Canada Conservation Data Centre zoological fieldwork 2021. Atlantic Canada Conservation Data Centre.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
58	Blaney, C.S & Spicer, C.D.; Popma, T.M.; Basquill, S.P. 2003. Vascular Plant Surveys of Northumberland Strait Rivers & Amherst Area Peatlands. Nova Scotia Museum Research Grant, 501 recs.
58	Blaney, C.S. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre.
58	Hallet, Tristan. 2025. Botany Fieldwork. Atlantic Canada Conservation Data Centre, 5157 recs.
58	Klymko, J. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre.
57	Bagnell, B.A. 2001. New Brunswick Bryophyte Occurrences. B&B Botanical, Sussex, 478 recs.
53	Staicer, Cindy. 2023. 2022 SAR Bird ARU occurrences. Dalhousie University, 379 records.
51	Blaney, C.S.; Mazerolle, D.M.; Klymko, J; Spicer, C.D. 2006. Fieldwork 2006. Atlantic Canada Conservation Data Centre. Sackville NB, 8399 recs.
51	Blaney, C.S.; Spicer, C.D.; Popma, T.M.; Hanel, C. 2002. Fieldwork 2002. Atlantic Canada Conservation Data Centre. Sackville NB, 2252 recs.
51	Sollows, M.C. 2009. NBM Science Collections databases: molluscs. New Brunswick Museum, Saint John NB, download Jan. 2009, 6951 recs (2957 in Atlantic Canada).
51	Toms, Brad & Pepper, Chris; Neily, Tom. 2022. Nova Scotia lichen database [as of 2022-04]. Mersey Tobeatic Research Institute.
50	Korol, J. Burke. 2025. Field data from Maritime Canada for the 2024 field season. Atlantic Canada Conservation Data Centre, 8125 records.
50	Mersey Tobeatic Research Institute. 2023. 2023 Wood Turtle Records - Volunteer Collection. Mersey Tobeatic Research Institute, 50 recs.
49	Blaney, C.S. 2019. Sean Blaney 2019 field data. Atlantic Canada Conservation Data Centre, 4407 records.
49	Churchill, J.L. 2020. Atlantic Canada Conservation Data Centre Fieldwork 2020. Atlantic Canada Conservation Data Centre, 1083 recs.
48	Majka, C. 2009. Université de Moncton Insect Collection: Carabidae, Cerambycidae, Coccinellidae. Université de Moncton, 540 recs.
47	Blaney, C.S. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 6719 recs.
47	Blaney, C.S.; Spicer, C.D.; Rothfels, C. 2004. Fieldwork 2004. Atlantic Canada Conservation Data Centre. Sackville NB, 1343 recs.
46	Mazerolle, D.M. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 13515 recs.
45	Erskine, A.J. 1999. Maritime Nest Records Scheme (MNRS) 1937-1999. Canadian Wildlife Service, Sackville, 313 recs.
45	Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
44	Belliveau, A.G., Churchill, J.L. 2019. Compilation of flora and fauna observation records from Isle Haute, Nova Scotia. Acadia University; Atlantic Canada Conservation Data Centre, 522 recs.
44	Blaney, C.S. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 1042 recs.
44	Hall, R.A. 2001. S.. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
44	Mazerolle, D.M. 2020. Atlantic Canada Conservation Data Centre botanical fieldwork 2019. Atlantic Canada Conservation Data Centre.
44	McLean, K. 2019. Wood Turtle observations . Clean Annapolis River Project.
44	Neily, T.H. 2019. Tom Neily NS Bryophyte records (2009-2013). T.H. Neily, Atlantic Canada Conservation Data Centre, 1029 specimen records.
43	Bryson, Ian. 2024. Nova Scotia vascular and non-vascular flora observations Sept 2023-Oct 2024. Fraxinus Environmental & Geomatics, 10882 records.
43	Mersey Tobeatic Research Institute. 2022. Bat data from Bat Hotline from 2020-2022. Toms, Brad (ed.) Mersey Tobeatic Research Institute, 85 records.
42	Blaney, C.S; Korol, J.B.; Crowell, I. 2023. 2022 AC CDC Botany program field data. Atlantic Canada Conservation Data Centre, 5293 records.
41	Gallop, John. 2023. Species at Risk and Species of Conservation Interest records. McCallum Environmental.
40	Cameron, E. 2007. Canadian Gypsum Co. survey 2005-07. Dillon Consulting Ltd, 40 recs.
40	Canadian Wildlife Health Cooperative. 2024. Atlantic Canada Bat Hotline data from NS and PE. Atlantic Bat Conservation Project.
40	Hicks, Andrew. 2009. Coastal Waterfowl Surveys Database, 2000-08. Canadian Wildlife Service, Sackville, 46488 recs (11149 non-zero).
40	Porter, Caitlin et al. 2022. 2021 wildlife observaitions from the Caemmerer NCC site. Atlantic Canada Conservation Data Centre.
38	Spicer, C.D. & Harries, H. 2001. Mount Allison Herbarium Specimens. Mount Allison University, 128 recs.
38	Staicer, C. 2021. Additional compiled Nova Scotia Species at Risk bird records, 2005-2020. Dalhousie University.
38	Thomas, P. 2018. CSC Dorchester Bobolink Survey. Environment Canada, Canadian Wildlife Service.
37	Brooks, Fiona. 2024. Field data - 2024. Atlantic Canada Conservation Data Centre.
37	Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
36	Layberry, R.A. & Hall, P.W., LaFontaine, J.D. 1998. The Butterflies of Canada. University of Toronto Press. 280 pp+plates.
35	Churchill, J.L. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre, 2318 recs.
35	Wilhelm, S.I. et al. 2011. Colonial Waterbird Database. Canadian Wildlife Service, Sackville, 2698 sites, 9718 recs (8192 obs).
34	Honeyman, K. 2019. Unique Areas Database, 2018. J.D. Irving Ltd.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
34	Taylor, A. D., Ohashi, K., Sheng, J., Litvak, M. K. 2016. Oceanic Distribution, Behaviour, and a Winter Aggregation Area of Adult Atlantic Sturgeon, Acipenser oxyrinchus oxyrinchus, in the Bay of Fundy, Canada. PLoS One, 11(4), e0152470. doi:10.1371/journal.pone.0152470.
33	Epworth, W. 2013. Species at Risk records, 2013. Fort Folly Habitat Recovery Program, 27 recs.
32	Benedict, B. Connell Herbarium Specimen Database Download 2004. Connell Memorial Herbarium, University of New Brunswick. 2004.
32	Blaney, C.S. 2025. Atlantic Canada Conservation Data Centre fieldwork from 2024 NB, NS, PE, including Sable Island. Atlantic Canada Conservation Data Centre, 6569 records.
31	Blaney, C.S.; Spicer, C.D. 2001. Fieldwork 2001. Atlantic Canada Conservation Data Centre. Sackville NB, 981 recs.
31	Crowell, Iain. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
31	Jobin, C. & Clow, A., Van Dijk, J. 2019. Eastern Waterfan data, Mount Allison Fundy Field Camp 2019. Chapman, C.J. (ed.) Fundy National Park and Mount Allison University, 31 recs.
30	Tingley, S. (compiler). 2001. Butterflies of New Brunswick. , Web site: www.geocities.com/Yosemite/8425/buttrfly. 142 recs.
29	Klymko, J.J.D.; Robinson, S.L. 2012. 2012 field data. Atlantic Canada Conservation Data Centre, 447 recs.
29	Korol, J. Burke. 2025. Field data 2025. Atlantic Canada Conservation Data Centre, 1220 recs.
29	Newell, R.E. 2019. Crocanthemum canadense records compiled for provincial status report. pers. comm. from Ruth Newell to AC CDC.
29	Wallace, S. 2020. Stewardship Department species occurrence data on NTNB preserves. Nature Trust of New Brunswick.
28	Klymko, J.J.D. 2016. 2015 field data. Atlantic Canada Conservation Data Centre.
28	Mersey Tobeatic Research Institute. 2023. NS Turtle Records. Mersey Tobeatic Research Institute, 214 recs.
27	Brazner, John; MacKinnon, Frances. 2020. Relative conservation value of Nova Scotia's forests: forested wetlands as avian biodiversity hotspots. Canadian Journal of Forest Research, 50(12): 1307-1322. dx.doi.org/10.1139/cjfr-2020-0101.
27	McGrattan, Alysha. 2023. Monarch conservation in Southern New Brunswick. Nature NB.
27	Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia. , 181 records.
26	Hubley, Nicole. 2022. Monarch (Danaus plexippus) records submitted to MTRI from the 2021 field season. Mersey Tobeatic Research Institute.
26	Manthorne, A. 2019. Incidental aerial insectivore observations. Birds Canada.
26	McLean, K. 2020. Wood Turtle observations . Clean Annapolis River Project.
25	Chapman, C.J. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 11171 recs.
25	Churchill, J.L., Klymko, J.D.D. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre.
25	Jeffie McNeil. 2024. Turtle and Ribbonsnake Observations. Mersey Tobeatic Research Institute, 336 recs.
25	McLean, K. 2020. Species occurrence records from Clean Annapolis River Project fieldwork in 2020. Clean Annapolis River Project, 206 records.
25	Westwood, A., Staicer, C. 2016. Nova Scotia landbird Species at Risk observations. Dalhousie University.
24	Belliveau, A.G. 2021. New Black ash site records near Kentville, NS. Acadia University, 47 records.
24	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
24	Cowie, F. 2007. Electrofishing Population Estimates 1979-98. Canadian Rivers Institute, 2698 recs.
24	Doucet, D.A. 2007. Lepidopteran Records, 1988-2006. Doucet, 700 recs.
24	Staicer, C. & Bliss, S.; Achenbach, L. 2017. Occurrences of tracked breeding birds in forested wetlands. , 303 records.
23	Blaney, C.S.; Mazerolle, D.M. 2008. Fieldwork 2008. Atlantic Canada Conservation Data Centre. Sackville NB, 13343 recs.
23	Blaney, C.S.; Mazerolle, D.M. 2011. Fieldwork 2011. Atlantic Canada Conservation Data Centre. Sackville NB.
23	Klymko, J.J.D. 2018. 2017 field data. Atlantic Canada Conservation Data Centre.
22	Nelly, T.H. 2006. Cypripedium arietinum in Hants Co. Pers. comm. to C.S. Blaney. 22 recs, 22 recs.
22	Ogden, J. NS DNR Butterfly Collection Dataset. Nova Scotia Department of Natural Resources. 2014.
21	Clayden, S.R. 2007. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, download Mar. 2007, 6914 recs.
21	Godbout, V. 2002. SAR Inventory: Birds in Fort Beauséjour NHS. Parks Canada, Atlantic, SARINV02-01. 202 recs.
21	NS DNR. 2017. Black Ash records from NS DNR Permanent Sample Plots (PSPs), 1965-2016. NS Dept of Natural Resources.
21	Siemens-Worsley, Allison. 2024. iNaturalist Wood Turtle observations for New Brunswick and Nova Scotia. NatureServe Canada.
20	Askanas, H. 2016. New Brunswick Wood Turtle Database. New Brunswick Department of Energy and Resource Development.
20	New Brunswick Department of Natural Resources and Energy Development. 2023. Wood turtle records from 2016-2021. New Brunswick Department of Natural Resources and Energy Development, 637 records.
19	Blaney, C.S.; Spicer, C.D.; Mazerolle, D.M. 2005. Fieldwork 2005. Atlantic Canada Conservation Data Centre. Sackville NB, 2333 recs.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
19	Hinds, H.R. 1986. Notes on New Brunswick plant collections. Connell Memorial Herbarium, unpubl, 739 recs.
19	Mersey Tobetic Research Institute. 2021. 2020 Monarch records from the MTRI monitoring program. Mersey Tobetic Research Institute, 72 records.
19	Thomas, A.W. 1996. A preliminary atlas of the butterflies of New Brunswick. New Brunswick Museum.
19	Walker, J. 2017. Bird inventories at French River, NS, and Memramcook, NB, for Nature Conservancy of Canada. Pers. comm. to AC CDC.
18	Amirault, D.L. & Stewart, J. 2007. Piping Plover Database 1894-2006. Canadian Wildlife Service, Sackville, 3344 recs, 1228 new.
18	Basquill, S.; Sam, D. 2019. Crocanthemum canadense observations near Greenwood, NS, 2015-2019. pers. commun. from Nova Scotia Department of Lands and Forestry to AC CDC, 18 recs.
18	Chiasson, R. 2018. Breeding bird observations from NBWTF project. pers. comm. to S. Blaney.
18	Porter, C.J.M. 2014. Field work data 2007-2014. Nova Scotia Nature Trust, 96 recs.
17	Bateman, M.C. 2001. Coastal Waterfowl Surveys Database, 1965-2001. Canadian Wildlife Service, Sackville, 667 recs.
17	Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
17	Brooks, Fiona. 2025. SAR lichen records from April and May 2025. Atlantic Canada Conservation Data Centre, 154 records.
17	Richardson, D., Anderson, F., Cameron, R, McMullin, T., Clayden, S. 2014. Field Work Report on Black Foam Lichen (Anzia colpodes). COSEWIC.
16	Anderson, Frances; Neily, Tom. 2010. A Reconnaissance Level Survey of Calciphilous Lichens in Selected Karst Topography in Nova Scotia with Notes on Incidental Bryophytes. Mersey Tobeatic Research Institute.
16	Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
16	Edsall, J. 2001. Lepidopteran records in New Brunswick, 1997-99. , Pers. comm. to K.A. Bredin. 91 recs.
16	Liv Monck-Whipp. 2024. Incidental observations from Nova Scotia Nature Trust 2024 field season. Nova Scotia Nature Trust.
16	Powell, B.C. 1967. Female sexual cycles of Chrysemy spicta & Clemmys insculpta in Nova Scotia. Can. Field-Nat., 81:134-139. 26 recs.
15	Basquill, S.P. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre, Sackville NB, 69 recs.
15	Belliveau, A. 2013. Rare species records from Nova Scotia. Mersey Tobeatic Research Institute, 296 records. 296 recs.
15	Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
15	McNeil, Jeffie. 2023. 2022 Turtle Records. Mersey Tobeatic Research Institute.
15	Staicer, Cindy. 2023. 2022 SAR Bird field occurrences from the Landbirds at Risk Project, NS. Dalhousie University, 446 records.
14	Basquill, S.P. 2011 vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
14	Blaney, C.S.; Mazerolle, D.M. 2009. Fieldwork 2009. Atlantic Canada Conservation Data Centre. Sackville NB, 13395 recs.
14	Cameron, R.P. 2013. 2013 rare species field data. Nova Scotia Department of Environment, 71 recs.
14	Coastal Action. 2024. SAR records from 2022. Coastal Action, 87 records.
14	Klymko, J. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
14	LaPaix, Rich. 2022. Rare species observations, 2018-2022. Nova Scotia Nature Trust.
14	McLean, K. 2019. Species At Risk observations. Clean Annapolis River Project.
14	Pike, E., Tingley, S. & Christie, D.S. 2000. Nature NB Listserve. University of New Brunswick, listserv.unb.ca/archives/naturenb. 68 recs.
13	Benjamin, L.K. 2011. NSDNR fieldwork & consultant reports 1997, 2009-10. Nova Scotia Dept Natural Resources, 85 recs.
13	Ferguson, D.C. 1954. The Lepidoptera of Nova Scotia. Part I, macrolepidoptera. Proceedings of the Nova Scotian Institute of Science, 23(3), 161-375.
13	Goltz, J.P. & Bishop, G. 2005. Confidential supplement to Status Report on Prototype Quillwort (Isoetes prototypus). Committee on the Status of Endangered Wildlife in Canada, 111 recs.
13	Mackinnon, Frances. 2025. Gully Lake BioBlitz Records. Nova Scotia Department of Natural Resources & Renewables, 16 recs.
13	Mazerolle, D.M. 2005. Bouctouche Irving Eco-Centre rare coastal plant fieldwork results 2004-05. Irving Eco-centre, la Dune du Bouctouche, 174 recs.
13	McAlpine, D.F. 1998. NBM Science Collections: Wood Turtle records. New Brunswick Museum, Saint John NB, 329 recs.
13	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
13	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobeatic Research Institute.
13	Nova Scotia Nature Trust. 2014. Ladyslipper records from Saint Croix Nova Scotia, JLC Ed. Nova Scotia Nature Trust.
12	Benjamin, L.K. (compiler). 2002. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 32 spp, 683 recs.
12	Caissie, A. Herbarium Records. Fundy National Park, Alma NB. 1961-1993.
12	Cowie, Faye. 2007. Surveyed Lakes in New Brunswick. Canadian Rivers Institute, 781 recs.
12	e-Butterfly. 2018. Selected Maritimes butterfly records from 2016 and 2017. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
12	Holder, M.L.; Kingsley, A.L. 2000. Kinglsey and Holder observations from 2000 field work.
12	Kennedy, Joseph. 2010. New Brunswick Peregrine records, 2009. New Brunswick Dept Natural Resources, 19 recs (14 active).
12	McAlpine, D.F. 1983. Status & Conservation of Solution Caves in New Brunswick. New Brunswick Museum, Publications in Natural Science, no. 1, 28pp.
12	Nature Conservancy of Canada. 2024. NCC NB 2024 Species Records. Nature Conservancy of Canada, 45 recs.
12	Ogden, K. Nova Scotia Museum butterfly specimen database. Nova Scotia Museum. 2017.
12	Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J; ONHIC, 487 recs.
12	Phinney, Lori; Toms, Brad; et. al. 2016. Bank Swallows (Riparia riparia) in Nova Scotia: inventory and assessment of colonies. Merset Tobeiatc Research Institute, 25 recs.
12	Skomorowski, Joanna. 2024. 2022 Nova Scotia Nature Trust SAR occurrences. Nova Scotia Nature Trust, 58 records.
12	Wissink, R. 2000. Rare Plants of Fundy: maps. Parks Canada, 20 recs.
11	Churchill, James. 2024. NCC and NSNT records from 2024 field season. Lobaria Consulting, 2497 recs.
11	Doucet, D.A. 2009. Census of Globally Rare, Endemic Butterflies of Nova Scotia Gulf of St Lawrence Salt Marshes. Nova Scotia Dept of Natural Resources, Species at Risk, 155 recs.
11	Hinds, H.R. 1999. Connell Herbarium Database. University New Brunswick, Fredericton, 131 recs.
11	Klymko, J.J.D.; Robinson, S.L. 2014. 2013 field data. Atlantic Canada Conservation Data Centre.
11	LaPaix, R.W.; Crowell, M.J.; MacDonald, M. 2011. Stantec rare plant records, 2010-11. Stantec Consulting, 334 recs.
11	Neily, T.H. 2013. Email communication to Sean Blaney regarding Listera australis observations made from 2007 to 2011 in Nova Scotia. , 50.
11	Sabine, D.L. Bombus terricola specimens in Dwayne Sabine's personal collection. pers. comm. 2022.
10	Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
10	Belliveau, A.G. & Vail, Cole; King, Katie. 2020. New Allium tricoccum locations, Cornwallis River. Chapman, C.J. (ed.) Acadia University.
10	Bryson, I. 2020. Nova Scotia and Newfoundland rare species observations, 2018-2020. Nova Scotia Environment.
10	Feltham, Carter. 2022. Monarch (Danaus plexippus) and Milkweed MTRI records from the 2022 Field Season. Mersey Tobeatic Research Institute.
10	Goltz, J.P. 2012. Field Notes, 1989-2005. , 1091 recs.
10	Gravel, Mireille. 2010. Coordonnées GPS et suivi des tortues marquées, 2005-07. Kouchibouguac National Park, 480 recs.
10	MacDonald, E.C. 2018. CWS Piping Plover Census, 2010-2017. Canadian Wildlife Service, 672 recs.
10	Neily, T. H. 2018. Lichen and Bryophyte records, AEI 2017-2018. Tom Neily; Atlantic Canada Conservation Data Centre.
10	Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobeatic Research Institute.
10	Nova Scotia Department of Natural Resources. 2025. Observations from Nictaux Sand Pit Environmental Assessment conducted by Strum Consulting. MacKinnon, Frances (ed.) Strum Consulting, 20 records.
10	Parker, M.S.R. 2011. Hampton Wind Farm 2010: significant floral/faunal observations. , 13 recs.
10	Webster, R.P. & Edsall, J. 2007. 2005 New Brunswick Rare Butterfly Survey. Environmental Trust Fund, unpublished report, 232 recs.
9	Benjamin, L.K. 2006. Cypripedium arietinum. Pers. comm. to D. Mazerolle. 9 recs, 9 recs.
9	Blaxley, Megan; Vinson, Neil. 2020. Peltigera hydrothyria records from a tributary of Lake Brook, Fundy National Park. Chapman-Lam, Colin J. (ed.) Fundy National Park, 9.
9	Doucet, D.A. 2008. Fieldwork 2008: Odonata. ACCDC Staff, 625 recs.
9	Fenech, Malcom. 2025. Incidental SAR observations on mainland NS. Unima'ki Institute of Natural Resources, 24 records.
9	Nova Scotia Nature Trust. 2025. Species of conservation concern - 2025. , 61 recs.
9	Speers, L. 2008. Butterflies of Canada database: New Brunswick 1897-1999. Agriculture & Agri-Food Canada, Biological Resources Program, Ottawa, 2048 recs.
9	Vost, Emma. 2026. Black Ash in Anapolis County, NS - 2026. Nova Scotia Department of Natural Resources and Renewables, 9 recs.
9	Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
8	Amirault, D.L. & McKnight, J. 2003. Piping Plover Database 1991-2003. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
8	Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources, 143 recs.
8	Bredin, K.A. 2001. WTF Project: Freshwater Mussel Fieldwork in Freshwater Species data. Atlantic Canada Conservation Data Centere, 101 recs.
8	Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
8	Gilhen, J. 1984. Amphibians & Reptiles of Nova Scotia, 1st Ed. Nova Scotia Museum, 164pp.
8	Golder Associates. 2018. Dorchester wind turbine bat detections. Owens, Luke, Firman, Mitch, Melcher, Heather (ed.) Golder Associates Ltd.
8	Hinds, H.R. 1992. Rare Vascular Plants of Fundy National Park. , 10 recs.
8	King, Katie; Jean, Samuel. 2021. Black ash observations near Booklyn, NS. E.C. Smith Herbarium.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
8	Klymko, J. 2021. Atlantic Canada Conservation Data Centre zoological fieldwork 2020. Atlantic Canada Conservation Data Centre.
8	Nature Conservancy of Canada. 2022-2023. NCC Data for NB 2022-2023. NCC, 318 recs.
8	Oldham, M.J. 2026. Additional Oldham database records for Atlantic Canada. Oldham, M.J; ONHIC, 1026 recs.
8	Wissink, R. 2006. Fundy National Park Digital Database. Parks Canada, 41 recs.
7	Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of C. insculpta sightings. Acadia University, Wolfville NS, 88 recs.
7	Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
7	Blaney, C.S. Miscellaneous specimens received by ACCDC (botany). Various persons. 2001-08.
7	Brooks, Fiona. 2025. Peltigera hydrothryria records from Carter's Brook, NS in September 2024. Atlantic Canada Conservation Data Centre, 31 records.
7	Cameron, B. 2006. Hepatica americana Survey at Scotia Mine Site in Gays River, and Discovery of Three Yellow-listed Species. Conestoga-Rovers and Associates, (a consulting firm), october 25. 7 recs.
7	Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
7	Doucet, D.A. & Edsall, J.; Brunelle, P.-M. 2007. Miramichi Watershed Rare Odonata Survey. New Brunswick ETF & WTF Report, 1211 recs.
7	Klymko, J.J.D. 2012. Insect fieldwork & submissions, 2011. Atlantic Canada Conservation Data Centre. Sackville NB, 760 recs.
7	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobeatic Research Institute, 668 recs.
7	Popma, T.M. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 113 recs.
7	Robicheau, Charity. 2025. Incidental SAR bird and turtle records from July-August 2025. Atlantic Canada Conservation Data Centre, 7 records.
7	Vost, Emma. 2025. Black Ash in Kings County, NS. Nova Scotia Department of Natural Resources and Renewables, 7 recs.
6	Atlantic Canada Bank Swallow Working Group. 2022. 2021 Bank Swallow colony records. Birds Canada.
6	Basset, I.J. & Crompton, C.W. 1978. The Genus Suaeda (Chenopodiaceae) in Canada. Canadian Journal of Botany, 56: 581-591.
6	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
6	Brazner, J.; Hill, N. 2018. Plant observations along the Cornwallis River, Nova Scotia. Nova Scotia Department of Lands and Forestry.
6	Canadian National Collection of Insects Arachnids, and Nematodes Bombus specimen database export. Government of Canada. 2022.
6	Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 recs.
6	Chiasson, Roland. 2017. New Brunswick Breeding bird observations from NBWTF project. pers. comm. to J. Churchill.
6	Coastal Action. 2023. 2023 Coastal Action SAR Data. Coastal Action, 552 recs.
6	eBird. 2025. Wood Thrush Record Export (NB). eBird Observation Database.
6	English, M. 2024. Colonial Waterbird Database. Canadian Wildlife Service.
6	Hall, R. 2008. Rare plant records in old fieldbook notes from Truro area. Pers. comm. to C.S. Blaney. 6 recs, 6 recs.
6	Hallett, Tristan. 2025. Field data from July and August of 2024 for New Brunswick and southwest Nova Scotia. Atlantic Canada Conservation Data Centre, 3610 records.
6	Klymko, J. 2019. Atlantic Canada Conservation Data Centre zoological fieldwork 2018. Atlantic Canada Conservation Data Centre.
6	Klymko, J. 2025. John Klymko 2024 field data. Atlantic Canada Conservation Data Centre.
6	Klymko, John. 2024. Atlantic Canada Conservation Data Centre zoological fieldwork 2023. Atlantic Canada Conservation Data Centre.
6	Matthew Smith. 2010. Field trip report from Avon Caving Club outlining the discovery of Cyrpipedium arietinum and Hepatica nobilis populations. Public Works and Government Services Canada.
6	Nova Scotia Nature Trust. 2022. Ram's Head Lady Slipper observations from 2015 and 2019. , 6 records.
6	Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro. 2003.
6	White, S. 2019. Notable species sightings, 2018. East Coast Aquatics.
5	Archibald, D.R. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
5	Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.
5	Brooks, Fiona. 2024. SAR observations for Nova Scotia from June and July 2024. Atlantic Canada Conservation Data Centre, 106 records.
5	Cameron, R.P. 2009. Cyanolichen database. Nova Scotia Environment & Labour, 1724 recs.
5	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
5	Carter, Jeff; Churchill, J.; Churchill, I.; Churchill, L. 2020. Bank Swallow colony Scots Bay, NS. Atlantic Canada Conservation Data Centre.
5	Clayden, S.R. 2005. Confidential supplement to Status Report on Ghost Antler Lichen (Pseudevernia cladonia). Committee on the Status of Endangered Wildlife in Canada, 27 recs.
5	Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
5	Hughes, Cory. 2020. Atlantic Forestry Centre Coccinella transversoguttata collections. Canadian Forest Service, Atlantic Forestry Centre.
5	Kennedy, Joseph. 2010. New Brunswick Peregrine records, 2010. New Brunswick Dept Natural Resources, 16 recs (11 active).
5	Mersey Tobeatic Research Institute. 2024. Barn swallow records from volunteers. Pers. comm., 16 records.
5	Nature Conservancy of Canada. 2026. Nova Scotia observations at NCC properties in 2025. Ceci, Samantha; van Hemessen, Doug (ed.) Nature Conservancy of Canada, 26 records.
5	Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust, 95 recs.
5	Pohl, G.P. Specimen data from Northern Forest Research Centre. Northern Forest Research Centre. 2022.
5	Richardson, D., Anderson, F., Cameron, R, Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (Pannaria lurida). COSEWIC.
5	Robicheau, Charity. 2023. Field data from 2023. Atlantic Canada Conservation Data Centre, 14 records.
5	Shortt, R. UNB specimen data for various tracked species formerly considered secure. Connell Memorial Herbarium, UNB, Fredericton NB. 2019.
5	Towell, C. 2014. 2014 Northern Goshawk and Common Nighthawk email reports, NS. NS Department of Natural Resources.
5	Vail, Cole. 2023. 2023 Lichen Observations. C.Vail, 20 recs.
4	Bastien, D. 2017. Rare Peatland plant observations. Pers. comm. to H. Askanas, New Brunswick Department of Energy and Resource Development.
4	Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centere, 30 recs.
4	Brooks, Fiona. 2025. Field data for Nova Scotia and Prince Edward Island, 2024-2025. Atlantic Canada Conservation Data Centre, 1766 recs.
4	Calder, D.R., J.S. Bleakney. 1967. Observations on Frenchman's Cave, Nova Scotia, and Its Fauna. National Speleological Society Bulletin, 29: 23-25.
4	Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
4	Cody, W.J. 2003. Nova Scotia specimens of Equisetum pratense at the DAO herbarium in Ottawa. , Pers. comm. to C.S. Blaney. 4 recs.
4	Edsall, J. 2007. Lepidopteran Records from Halls Creek, 1994-2000. Edsall, 43 recs.
4	Forsythe, B. 2006. Cypripedium arietinum at Meadow Pond, Hants Co. Pers. comm. to C.S. Blaney. 4 recs, 4 recs.
4	Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
4	Hennigar, Briana; Gow, Jonas. 2023. Bank Swallow Nesting Site in Waterville. The Jijuktu'kwejk Watershed Alliance.
4	Klymko, J.J.D. 2012. Insect field work & submissions. Atlantic Canada Conservation Data Centre, 852 recs.
4	Mills, Pamela. 2007. Iva frutescens records. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to S. Basquil, 4 recs.
4	Nature Trust of New Brunswick. 2022. Nature Trust of New Brunswick 2022 staff and volunteer observations of species occurence data. Nature Trust of New Brunswick.
4	Phillips, B. 2017. Emails to John Klymko regarding Eastern Waterfan (Peltigera hydrothyria) occurrences in Fundy National Park. Fundy Biosphere Reserve, 3 recs.
4	Robinson, S.L. 2010. Fieldwork 2009 (dune ecology). Atlantic Canada Conservation Data Centre. Sackville NB, 408 recs.
4	Shortt, R. Connell Herbarium Black Ash specimens. University New Brunswick, Fredericton. 2019.
4	Speers, L. 2001. Butterflies of Canada database. Agriculture & Agri-Food Canada, Biological Resources Program, Ottawa, 190 recs.
4	Wilhelm, S.I. et al. 2019. Colonial Waterbird Database. Canadian Wildlife Service.
3	Amiro, Peter G. 1998. Atlantic Salmon: Inner Bay of Fundy SFA 22 & part of SFA 23. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-12. 4 recs.
3	Bateman, M.C. 2000. Waterfowl Brood Surveys Database, 1990-2000. Canadian Wildlife Service, Sackville, unpublished data. 149 recs.
3	Belliveau, A.G. E.C. Smith Herbarium Specimen Database 2019. E.C. Smith Herbarium, Acadia University. 2019.
3	Benedict, B. Connell Herbarium Specimens, Digital photos. University New Brunswick, Fredericton. 2005.
3	Blaney, C.S. 1999. Fieldwork 1999. Atlantic Canada Conservation Data Centre. Sackville NB, 292 recs.
3	Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
3	Cameron, R.P. 2012. Additional rare plant records, 2009. , 7 recs.
3	Chapman, C.N. (Cody). 2020. Nova Scotia Black Ash (Fraxinus nigra) field observations by Confederacy of Mainland Mi'kmaq. Forestry Program, Confederacy of Mainland Mi'kmaq.
3	Chapman, Cody. Unreported Species at Risk Records across Nova Scotia. Chapman, Cody, 5 records.
3	Clayden, S.R. 2020. Email to Sean Blaney regarding Pilophorus cereus and P. fibula at Fidele Lake area, Charlotte County, NB. pers. comm., 2 records.
3	Daury, R.W. & Bateman, M.C. 1996. The Barrow's Goldeneye (Bucephala islandica) in the Atlantic Provinces and Maine. Canadian Wildlife Service, Sackville, 47pp.
3	Doubt, J. 2013. Email to Sean Blaney with Nova Scotia records of Fissidens exilis at Canadian Museum of Nature. pers. comm., 3 records.
3	Gagnon, E. Herbarium from 2017 Plant Systematics class. Université de Moncton. 2017.
3	Hill, N.M., Myra, M. 2017. Email to Sean Blaney regarding rich intervale flora on Nictaux River. Fern Hill Institute, 3 records.
3	Klymko, J. Butterfly records at the Nova Scotia Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2017.
3	Klymko, John. 2023. Atlantic Canada Conservation Data Centre zoological fieldwork 2022. Atlantic Canada Conservation Data Centre.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
3	MacDonald, E.C. 2018. Piping Plover nest records from 2010-2017. Canadian Wildlife Service.
3	MacKinnon, Frances. 2025. Records of Species of Risk from New Annan Quarry Expansion EA. Nova Scotia Department of Natural Resources, 3 records.
3	McNeil, J.A. 2010. Ribbonsnake (Thamophis sauritus) sightings, 1900-2009. Parks Canada, 2521 recs of 716+ individuals.
3	McNeil, J.A. 2019. Snapping Turtle records, 2019. Mersey Tobeatic Research Institute.
3	McNeil, J.A. 2020. Snapping Turtle and Eastern Painted Turtle records, 2020. Mersey Tobeatic Research Institute.
3	McNeil, Jeffie. 2022. 2021 Turtle Records. Mersey Tobeatic Research Institute.
3	Mersey Tobeatic Research Institute. 2022. Nova Scotia Bobolink observations. pers. comm. to J. Churchill.
3	Nature Conservancy of Canada. 2023. NCC Nova Scotia Data.
3	NatureServe Canada. 2018. iNaturalist Butterfly Data Export . iNaturalist.org and iNaturalist.ca.
3	Neily, T.H. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
3	Newington, Nina. 2023. Anzia colpodes at Beal's Brook, NS. Pers. comm. to J. Churchill.
3	Nova Scotia Department of Lands and Forestry. 2018. Wood Turtle observations in, or near, the cornwallis River watershed. NS DLF, pers. comm. to AC CDC.
3	O'Neil, S. 1998. Atlantic Salmon: Northumberland Strait Nova Scotia part of SFA 18. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-08. 9 recs.
3	Parker, M. 2016. Wood turtle (Glyptemys insculpta) Visual Surveys at Black, Wallace, Musquodobit and Sackville Rivers, Nova Scotia. East Coast Aquatics Inc., 3 records.
3	Phinney, L. 2019. Little Brown Myotis maternal colony counts and birdSAR, 2019. Mersey Tobeatic Research Institute.
3	Robicheau, Charity. 2025. Heterodermia squamulosa and Anaptychia palmulata records from Cape Split, May 2025. Atlantic Canada Conservation Data Centre, 3 records.
3	Sabine, D.L. 2013. Dwaine Sabine butterfly records, 2009 and earlier.
3	Sabine, M. 2016. NB DNR staff incidental Black Ash observations. New Brunswick Department of Natural Resources.
3	Sollows, M.C. 2008. NBM Science Collections databases: herpetiles. New Brunswick Museum, Saint John NB, download Jan. 2008, 8636 recs.
3	Standley, L.A. 2002. Carex haydenii in Nova Scotia. , Pers. comm. to C.S. Blaney. 4 recs.
3	Wallace, Shaylyn. 2025. Turtle records from the 2024 and 2025 field season for New Brunswick. Banks, Hayley (ed.) New Brunswick Department of Natural Resources and Energy Development, 58 records.
3	White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
2	Amirault, D.L. 2003. 2003 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
2	Basquill, S.P. 2018. Various specimens, NS DNR field work. NS Department of Natural Resources, 10.
2	Benedict, B. Connell Herbarium Specimens. University New Brunswick, Fredericton. 2000.
2	Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 recs.
2	COSEWIC (Committee on the Status of Wildlife in Canada). 2013. COSEWIC Assessment and Status Report on the Eastern Waterfan Peltigera hydrothyria in Canada. COSEWIC, 46 pp.
2	Department of Natural Resources and Energy Development. 2022. Wood Turtle records for New Brunswick. Government of New Brunswick, 28 records.
2	Dillon Consulting. 2025. Paqt'smawei Sipu Wind Project Environmental Impact Assessment. Dillon Consulting, 2 records.
2	Heron, J. 2022. Bombus records communicated to J. Klymko over email in autumn 2022. Pers. comm.
2	Hicklin, P.W. 1995. The Maritime Shorebird Survey Newsletter. Calidris, No. 3. 6 recs.
2	Hill, N.M. 2019. Observation of Crocanthemum canadense near Auburn, Annapolis Co. NS on May 29, 2019. Fern Hill Institute, 2 recs.
2	Hinds, H.R. 2000. Rare plants of Fundy in Rare Plants of Fundy: maps. Wissink, R. (ed.) Parks Canada, 2 recs.
2	Holder, M. & Kingsley, A.L. 2000. Peatland Insects in NB & NS: Results of surveys in 10 bogs during summer 2000. Atlantic Canada Conservation Data Centre, Sackville, 118 recs.
2	Jonathan Riley. 2024. Fraxinus nigra near Gaspereau Lake. iNaturalist, 2 recs.
2	Klymko, J. Univeriste de Moncton insect collection butterfly record dataset. Atlantic Canada Conservation Data Centre. 2017.
2	Klymko, J.J.D. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 3 recs.
2	Macaulay, M. Notes on newly discovered Hepatica nobilis var. obtusa population in Cumberland Co. NS. Pers. comm. to S. Blaney, 1 rec.
2	Makepeace, Scott. 2025. Records of Odonata species that are rapidly spreading northward in New Brunswick. Pers. comm.
2	Manning, I. 2020. Peregrine Falcon nest site observations. pers. comm. to J. Churchill.
2	Mazerolle, D. 2003. Assessment of Seaside Pinweed (Lechea maritima var. subcylindrica) in Southeastern New Brunswick. Irving Eco-centre, la Dune du Bouctouche, 18 recs.
2	Mazerolle, David. 2021. Botanical fieldwork 2019-20200. Parks Canada.
2	McAlpine, D.F. New Brunswick Museum bee specimens. New Brunswick Museum. 2013.
2	Mersey Tobeatic Research Institute (MTRI). 2025. Herptiles Atlas records from 2024. Feltham, Carter (ed.) MTRI, Web site: 32 records.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
2	Munro, M. 2003. Caulophyllum thalictroides & Carex hirtifolia at Herbert River, Brooklyn, NS. , Pers. comm. to C.S. Blaney. 2 recs.
2	Munro, M. 2003. Dirca palustris & Hepatica nobilis var. obtusa at Cogmagun River, NS. , Pers. comm. to C.S. Blaney . 2 recs.
2	Nature Conservancy of Canada (NCC). 2025. Bird observations from 2024 under the Habitat Stewardship Program. Nature Conservancy of Canada (NCC) New Brunswick chapter, 234 records.
2	Nature Conservancy of Canada. Nature Conservancy of Canada, 5 recs.
2	NatureServe Canada. 2018. iNaturalist Maritimes Butterfly Records. iNaturalist.org and iNaturalist.ca.
2	Newell, R. E., MacKinnon, C. M. & Kennedy, A. C. 2006. Botanical Survey of Boot Island National Wildlife Area, Nova Scotia, 2004. Canadian Wildlife Service, Atlantic Region, Technical Report Series Number 450. 3 recs.
2	Newell, R.E. 2006. Rare plant observations in Digby Neck. Pers. comm. to S. Blaney, 6 recs.
2	Nye, T. 2002. Wood Turtle observations in Westmorland, Queens Cos. , Pers. com. to S.H. Gerriets, Dec. 3. 3 recs.
2	Parker, M. 2018. East Coast Aquatics ACCDC 2018 Report. East Coast Aquatics, 12 records.
2	Popma, K. 2001. Phalarope & other bird observations in Westmorland Co. , Pers. comm. to K.A. Bredin. 5 recs.
2	Robinson, S.L. 2015. 2014 field data.
2	Sabine, D.L. 2005. 2001 Freshwater Mussel Surveys. New Brunswick Dept of Natural Resources & Energy, 590 recs.
2	Shafer, A.B.A., D.T. Stewart. 2006. A Disjunct Population of Sorex dispar (Long-Tailed Shrew) in Nova Scotia. Northeastern Naturalist, 13(4): 603-608.
2	Sheffield, C.S. 2004. The Rare Cleptoparasitic Bee Epeoloides pilosula (Hymenoptera: Apoidea: Apidae) Discovered in Nova Scotia, Canada, with Distributional Notes
2	Toner, M. 2001. Lynx Records 1973-2000. NB Dept of Natural Resources, 29 recs.
2	Tremblay, E. 2006. Kouchibouguac National Park Digital Database. Parks Canada, 105 recs.
2	Vinson, Neil. 2020. Email - additional Peltigera hydrothyria records, Fundy National Park. Chapman-Lam, Colin J. (ed.) Fundy National Park, 2.
2	Wallace, Shaylyn. 2023. Wood Turtle Locations - 2023. New Brunswick Department of Natural Resources and Energy Development.
1	Allan Smith. 2011. Cedar stand location at South Williamston. Abitibi Bowater, 1 Rec.
1	Amirault, D.L. 2000. Piping Plover Surveys, 1983-2000. Canadian Wildlife Service, Sackville, unpublished data. 70 recs.
1	Amirault, D.L. 2005. 2005 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 27 recs.
1	Andrews, S. 2026. Record of Notropis heterolepis and Notemigonus crysoleucas from the Shubenacadie Provincial Wildlife Park. Pers. comm.
1	Anon. Dataset of butterfly records for the Maritime provinces. Museum of Comparative Zoology, Harvard University. 2017.
1	Bagnell, B.A. 2003. Update to New Brunswick Rare Bryophyte Occurrences. B&B Botanical, Sussex, 5 recs.
1	Barney, T. 2020. Text message to Sean Blaney from Ted Barney with photograph of large Snapping Turtle at White Birch Impoundment, Westmorland Co., NB. pers. comm., 1 record.
1	Basquill, S. P. 2008. Nova Scotia Dept of Natural Resources.
1	Basquill, S.P. 2004. C. americana and Sedum sp records, 2002. Pers. comm. to C.S. Blaney. 2 recs, 2 recs.
1	Basquill, S.P. 2012. 2012 Bryophyte specimen data. Nova Scotia Department of Natural Resources, 37 recs.
1	Belliveau, A. 2013. email to Sean Blaney regarding Listera australis observations in SW Nova Scotia. Mersey Tobeatic Research Institute, 8.
1	Belliveau, A.G. 2020. Email to Colin Chapman on new NS locations for Allium tricoccum. Chapman, C.J. (ed.) Acadia University.
1	Benjamin, L.K. 2003. Cypripedium arietinum in Cogmagun River NS. Pers. comm. to S. Blaney, 1 rec.
1	Berg, L. 2020. Canada Warbler observations, Birch Lake, NS. pers. comm. to J. Churchill.
1	Blaney, C.S. 2014. 2014 Bank Swallow colony observation, Westcock, NB. Atlantic Canada Conservation Data Centre.
1	Boyne, A.W. 2000. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 168 recs.
1	Bredin, K.A. 2000. NB & NS Bog Project, fieldwork. Atlantic Canada Conservation Data Centre, Sackville, 1 rec.
1	Bredin, K.A. 2002. NB Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centere, 30 recs.
1	Brooks, Fiona. 2025. Pectenia plumbea records from July to October 2024 for Southwest Nova Scotia. Atlantic Canada Conservation Data Centre, 14 records.
1	Brooks, Fiona. 2025. Spring and early summer field data for Nova Scotia. Atlantic Canada Conservation Data Centre, 324 records.
1	Brown, Brian. 2021. Email to Sean Blaney regarding dead Wood Turtle, Melanson Road, Dieppe, NB. pers. comm., 1 record.
1	Bruce, J. 2014. 2014 Wood Turtle email report, Nine Mile River, NS. NS Department of Natural Resources.
1	Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
1	Brunton, Dan. 2022. Record of Isoetes prototypus near Sand Lake, NS. pers. comm.
1	Calhoun, J.C. Butterfly records databased at the McGuire Center for Lepidoptera and Biodiversity. Calhoun, J.C. 2020.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
1	Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
1	Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
1	Canadian Wildlife Service, Dartmouth. 2010. Piping Plover censuses 2007-09, 304 recs.
1	Catling, P.M. 1981. Taxonomy of autumn-flowering Spiranthes species of southern Nova Scotia in Can. J. Bot. , 59:1250-1273. 30 recs.
1	Catling, P.M. 2001. Bog Elfin records in NB, 1939-95. Eastern Cereal & Oilseed Research Centre, Ottawa, Pers. comm. to K.A. Bredin. 11 recs.
1	Clarke, Izzy. 2025. Common Nighthawk and Southern Twayblade records for Nova Scotia properties. Ducks Unlimited Canada, 2 records.
1	Clarke, Izzy; Reynders, Caleigh. 2024. Canada Warbler Observations NS. Ducks Unlimited Canada, 2 recs.
1	Clavette, A., and others. 2013. Peregrine Falcon nesting information from NatureNB listserv. NatureNB.
1	Clayden, S.R.; Goltz, J.P. 2018. Emails to Sean Blaney on occurrence of Polygonum douglasii at Big Bluff, Kings Co., New Brunswick. pers. comm., 1 record.
1	Coastal Action. 2021. 2021 Coastal Action SAR Data. Coastal Action, 25 recs.
1	Coastal Action. 2025. Snapping Turtle, Atlantic Whitefish and Atlantic Salmon records from 2024. Coastal Action, 33 records.
1	Consortium of North American Lichen Herbaria. 2014. Consortium of North American Lichen Herbaria: lichenportal.org. Consortium of North American Lichen Herbaria, Web site: 1 rec.
1	Cook, K. 2016. Wood Turtle record. Pers comm. to Nova Scotia Department of Lands and Forestry.
1	Creaser, Alissa & Belliveau, Alain Bombus specimens collected in Wolfville, Nova Scotia, in July 2022. E.C. Smith Herbarium. 2022.
1	Crowell, A. 2004. Cypripedium arietinum in Weir Brook, Hants Co. Pers. comm. to S. Blaney, 1 rec.
1	Crowell, M.J. Plant specimens from Nictaux, NS sent to Sean Blaney for identification. Jacques Whitford Limited. 2005.
1	de Graaf, M.; Miller, D. 2020. Records of Cypripedium reginae and Equisetum variegatum from CFI property at Scoudouc Road and Symplocarpus foetidus from CFI properties at Upper Cape, Westmorland County, NB. pers. comm. (ed.) Community Forests International, 4 records.
1	deGooyer, K. 2019. Snapping Turtle and Eastern White Cedar observations. Nova Scotia Environment.
1	Docherty, Joanne. 2022. Phone call to John Klymko about Danaus plexippus observation in Nova Scotia. Personal communication.
1	Eastman, A. 2019. Snapping Turtle observation at Brookfield, Colchester Co. NS. Halifax Field Naturalists Nova Scotia Nature Archive Facebook Page, 1 record.
1	Edge, Thomas A. 1984. Status report on the Atlantic Whitefish (Coregonus huntsmani). Committee on the Status of Endangered Wildlife in Canada.
1	Elizabeth Spence. 2020. Email from Elizabeth Spence to John Klymko about the occurrence of a Wood Turtle in Westmorland County, New Brunswick. Pers. comm.
1	Emma Vost. 2024. Nova Scotia Natural Resources and Renewables , 1 rec.
1	Gerriets, S.H. 1997-2001. Element Occurrence Database. Atlantic Canada Conservation Data Centre, Sackville NB, 1 rec.
1	Golder Associates Ltd. 2021. Black Ash location from Goff's Quarry Expansion Environment Assessment, 2017. Golder Associates Ltd., 1 record.
1	Goltz, J.P. 2001. Botany Ramblings April 29-June 30, 2001. N.B. Naturalist, 28 (2): 51-2. 8 recs.
1	Hill, N. 2014. 2014 Monarch email report, Bridgetown, NS. Fern Hill Institute for Plant Conservation.
1	Hill, N.; Manning, I. 2020. Wild Leek observation, Cornwallis River, NS, floodplain. pers. comm. to J. Churchill.
1	Hill, N.M. 2013. email communications to Sean Blaney and David Mazerolle regarding the discovery of Listera australis populations at Black River Lake and Middlewood. , 2.
1	Horace Mouland. 2022. Monarch observation in Wilmot, Nova Scotia. Personal communication, 1 record.
1	Jacques Whitford Ltd. 2003. Cananda Lily location. Pers. Comm. to S. Blaney. 2pp, 1 rec, 1 rec.
1	Kirkland, G.L. Jr. & Schmidt, D.F. 1982. Abundance, habitat, reproduction & morphology of forest-dwelling small mammals of NS & south-eastern NB. Can. Field-Nat., 96(2): 156-162. 1 rec.
1	Kirkland, G.L. Jr., Schmidt, D.F. & Kirkland, C.J. 1979. First record of the long-tailed shrew (Sorex dispar) in New Brunswick. Can. Field-Nat., 93: 195-198. 1 rec.
1	Klymko, J.J.D. 2016. 2014 field data. Atlantic Canada Conservation Data Centre.
1	LaFlamme, C. 2008. Disovery of Goodyera pubescens at Springdale, NB. Amec Earth and Environmental. Pers. comm. to D.M. Mazerolle, 1 rec.
1	Lantz, Joan; Lantz, Keith. 2015. eBird record of Sandhill Crane from Chapman Settlement, NS. eBirg.org.
1	Lautenschlager, R.A. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 2 recs.
1	Lautenschlager, R.A. 2020. Email to John Klymko about fisher sighting in Baie Verte. Klymko, J. (ed.) Lautenschlager, R.A., pers. comm.
1	Layberry, R.A. 2012. Lepidopteran records for the Maritimes, 1974-2008. Layberry Collection, 1060 recs.
1	Loo, J. & MacDougall, A. 1994. GAP analysis: Summary Report. Fundy Model Forest, 2 recs.
1	Macauley, M. 2008. Email to Sean Blaney regarding rich hardwood floodplain site at Howards Pool, Wallace River, NS.
1	MacKinnon, D.S. 2013. Email report of Peregrine Falcon nest E of St. Martins NB. NS Department of Environment and Labour, 1 record.
1	MacKinnon, Frances. 2024. Missing lichen observations. NS Department of Natural Resources and Renewables; AC CDC, 2 recs.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
1	MacKinnon, Frances. 2025. Three lichen SMP surveys. NS Department of Natural Resources and Renewables, 89 recs.
1	Madden, A. 1998. Wood Turtle records in northern NB. New Brunswick Dept of Natural Resources & Energy, Campbellton, Pers. comm. to S.H. Gerriets. 16 recs.
1	Majka, C.G. & McCorquodale, D.B. 2006. The Coccinellidae (Coleoptera) of the Maritime Provinces of Canada: new records, biogeographic notes, and conservation concerns. Zootaxa. Zootaxa, 1154: 49–68. 7 recs.
1	Majka, C.G. 1967. The butterflies of Albert County. Bulletin of the Moncton Naturalists Club, 13-20.
1	Majka, C.G. 1968. Additions to the butterflies of New Brunswick. Bulletin of the Moncton Naturalists Club, 13.
1	Manning, I. 2020. Peregrine Falcon observation. Pers. comm. to J.L. Churchill.
1	Martin, Alyssa. 2021. Email to Sean Blaney regarding Wood Turtle sighting, NB. pers. comm.
1	McAlpine, D.F. 1983. Species Record Cards. Fundy National Park, Library, 1 rec.
1	McNeil, J.A. 2010. Blandings Turtle (Emydoidea blandingii) sightings, 1946-2009. Parks Canada, 12,871 recs of 597+ individuals.
1	Mersey Tobeatic Research Institute. 2023. Monarch (Danaus plexippus) and Milkweed MTRI records from the 2023 Field Season. Mersey Tobeatic Research Institute.
1	Miller, D.G. 2013. Peregrine Falcon nesting information from birdingnewbrunswick.ca. birdingnewbrunswick.ca.
1	Mills, Elizabeth and Bishop, Gart. 2020. Cuscuta cephalanthi record, Grand-Barachois, NB. Chapman-Lam, Colin J. (ed.) pers. comm., 1.
1	Morrison, Annie. 2010. NCC Properties Fieldwork: June-August 2010. Nature Conservancy Canada, 508 recs.
1	Neily, T.H. 2004. Hepatica nobilis var. obtusa record for Falmouth NS. Pers. comm. to C.S. Blaney, 1 rec.
1	Neily, T.H. Tom Neily NS Sphagnum records (2009-2014). T.H. Neily, Atlantic Canada Conservation Data Centre. 2019.
1	Newell, R.E. 2004. Hepatica nobilis var. obtusa record. Pers. comm. to S. Blaney, 1 rec.
1	Niel, K. & Majka, C. 2008. New Records of Tiger Beetles (Coleoptera: Carabidae: Cicindelinae) in Nova Scotia. Journal of the Acadian Entomological Society, 4: 3-6.
1	Novak, Pam. 2017. Email to John Klymko regarding Chelydra serpentina record.
1	Paquet, J.M. 2022. Email correspondance to Sean Blaney re Upland Sandpiper records in Murray Corner, Westmorland County, NB. CWS, ECCC, 1 record.
1	Payzant, P. 2018. Satyr Comma record from Bible Hill, NS. https://novascotiabutterflies.ca.
1	Pepper, C. 2021. Rare bird, plant and mammal observations in Nova Scotia, 2017-2021.
1	Plissner, J.H. & Haig, S.M. 1997. 1996 International piping plover census. US Geological Survey, Corvallis OR, 231 pp.
1	Poirier, N. 2020. Email to John Klymko about Cupido amyntula and Thorybes pylades record from Albert Co., NB. pers. comm.
1	Quigley, E.J. 2021. Email to Sean Blaney regarding Eastern White Cedar (Thuja occidentalis) stand near Shinimicas Bridge. NSDLF, 1 record.
1	Robicheau, C. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
1	Sabine, M. 2016. Black Ash records from NB DNR permanent forest sampling Plots. New Brunswick Department of Natural Resources, 39 recs.
1	Scott, F.W. 1988. Status Report on the Southern Flying Squirrel (Glaucomys volans) in Canada. Committee on the Status of Endangered Wildlife in Canada, 2 recs.
1	Simpson, D. Collection sites for Black Ash seed lots preserved at the National Tree Seed Centre in Fredericton NB. National Tree Seed Centre, Canadian Forest Service. 2016.
1	Skevington, Jeffrey H. 2020. Syrphid records used for the Field Guide to the Flower Flies of Northeastern North America. Canadian National Collection of Insects.
1	Spicer, C.D. 2004. Specimens from CWS Herbarium, Mount Allison Herbarium Database. Mount Allison University, 5939 recs.
1	Steeves, R. 2004. Goodyera pubescens occurrence from Colpitts Brook, Albert Co. , Pers. comm. to C.S. Blaney. 1 rec.
1	Thompson, R. 2018. Williamsdale Quarry Expansion Project, NS, Environmental Assessment rare plants. Dexter Construction Company Limited.
1	Toms, Brad. 2022. Non-Lichen Observations from Lichen SMP and NCC Property Searches. Mersey Tobeatic Research Institute.
1	Toms, Brad. 2024. WestFor survey results 2024 part 2. Mersey Tobeatic Research Institute, 20 records.
1	Vail, Cole. 2025. Heterodermia neglecta record from lichen SMP survey for Loaf Hill, NS. MacKinnon, Frances (ed.) NS Department of Natural Resources, 1 record.
1	Vickruck, J. 2022. Bombus specimens collected in the 2021 and 2022 field seasons by Jessica Vickruck's research program. Fredericton Research and Development Centre.
1	Vinison, Neil. 2018. Record of Saxifraga paniculata from Fundy NP, emailed to S. Blaney 19 July 2018. Pers. comm.
1	Vinson, N. 2018. Email to S. Blaney regarding new occurrence of Saxifraga paniculata on Point Wolfe River. Parks Canada, 1 record.
1	Vinson, N. 2019. Eastern Waterfan record from Long Reach Brook, Fundy National Park, June 12, 2019. Parks Canada Agency, Fundy National Park, 1 record.
1	Vinson, Neil. 2016. Emails to Sean Blaney regarding yellow flower (Primula veris) and coastal habitat leaf rosettes (Primula laurentiana) in Fundy National Park. pers. comm., 2 rec.
1	Vinson, Neil. 2023. Fraxinus nigra observation near Moncton. iNaturalist.
1	Walker, E.M. 1933. The Odonata of the Maritime Provinces. Proc. Nova Scotian Inst. Sci., 18: 106-128. 3 recs.
1	Wallace, Shaylyn. 2023. Painted Turtle and Snapping Turtle records since 2015. New Brunswick Department of Energy and Resource Development.
1	Webster, R.P. 2004. Lepidopteran Records for National Wildlife Areas in New Brunswick. Webster, 1101 recs.

Table 9: Source Bibliography (100 km) *(continued)*

# recs	Citation
1	WIlliams, M. Cape Breton University Digital Herbarium. Cape Breton University Digital Herbarium. 2013.
1	Wilson, G. 2013. 2013 Snapping Turtle email report, Wentworth, NS. Pers. comm.
1	Wissink, R. 2000. Four-toed Salamander Survey results, 2000. Fundy National Park, Internal Documents, 1 rec.