



Appendix I.1

ACCDC Report Beaver Dam Mine Site and Haul Road
(DATA REPORT 6749: Marinette, NS)-
January 4, 2021

Completed for the Updated 2021 Beaver Dam Mine EIS

DATA REPORT 6749: Marinette, NS

Prepared 4 January 2021
by C. Robicheau, Data Manager

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Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (AC CDC; www.accdc.com) is part of a network of NatureServe data centres and heritage programs serving 50 states in the U.S.A, 10 provinces and 1 territory in Canada, plus several Central and South American countries. The NatureServe network is more than 30 years old and shares a common conservation data methodology. The AC CDC was founded in 1997, and maintains data for the jurisdictions of New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland and Labrador. Although a non-governmental agency, the AC CDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees.

Upon request and for a fee, the AC CDC queries its database and produces customized reports of the rare and endangered flora and fauna known to occur in or near a specified study area. As a supplement to that data, the AC CDC includes locations of managed areas with some level of protection, and known sites of ecological interest or sensitivity.

1.1 DATA LIST

Included datasets:

<u>Filename</u>	<u>Contents</u>
MarinetteNS_6749ob.xls	Rare or legally-protected Flora and Fauna in your study area
MarinetteNS_6749ob100km.xls	A list of Rare and legally protected Flora and Fauna within 100 km of your study area
MarinetteNS_6749msa.xls	Managed and Biologically Significant Areas in your study area

1.2 RESTRICTIONS

The AC CDC makes a strong effort to verify the accuracy of all the data that it manages, but it shall not be held responsible for any inaccuracies in data that it provides. By accepting AC CDC data, recipients assent to the following limits of use:

- a) Data is restricted to use by trained personnel who are sensitive to landowner interests and to potential threats to rare and/or endangered flora and fauna posed by the information provided.
- b) Data is restricted to use by the specified Data User; any third party requiring data must make its own data request.
- c) The AC CDC requires Data Users to cease using and delete data 12 months after receipt, and to make a new request for updated data if necessary at that time.
- d) AC CDC data responses are restricted to the data in our Data System at the time of the data request.
- e) Each record has an estimate of locational uncertainty, which must be referenced in order to understand the record's relevance to a particular location. Please see attached Data Dictionary for details.
- f) AC CDC data responses are not to be construed as exhaustive inventories of taxa in an area.
- g) The absence of a taxon cannot be inferred by its absence in an AC CDC data response.

1.3 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:

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney, Senior Scientist, Executive Director

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

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.

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 Donna Hurlburt, NS DLF: (902) 679-6886. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NS DLF Regional Biologist:

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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.

RESOLUTION

- 4.7 within 50s of kilometers
- 4.0 within 10s of kilometers
- 3.7 within 5s of kilometers
- △ 3.0 within kilometers
- △ 2.7 within 500s of meters
- ◇ 2.0 within 100s of meters
- ◇ 1.7 within 10s of meters

HIGHER TAXON

- vertebrate fauna
- invertebrate fauna
- vascular flora
- nonvascular flora

3.0 SPECIAL AREAS

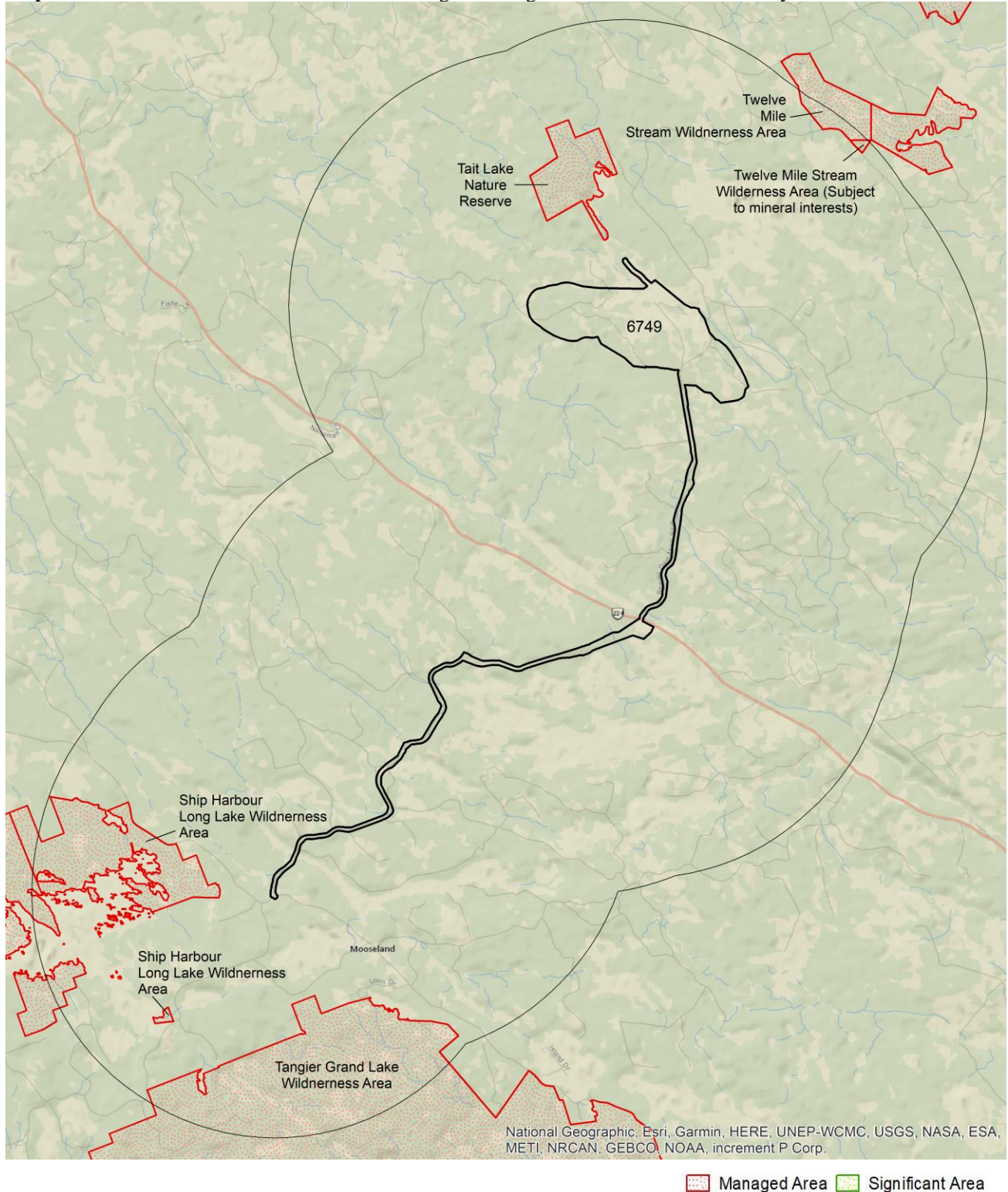
3.1 MANAGED AREAS

The GIS scan identified 6 managed areas in the vicinity of the study area (Map 3 and attached file: *ma*.xls).

3.2 SIGNIFICANT AREAS

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3 and attached file: *sa*.xls).

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



4.0 RARE SPECIES LISTS

Rare and/or endangered taxa (excluding “location-sensitive” species, section 4.3) within the study area listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation (\pm the precision, in km, of the record). [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

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	67	10.1 \pm 0.0
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1S2	2	10.2 \pm 0.0
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S2S3	1	5.5 \pm 0.0
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3	4	10.3 \pm 1.0
N	<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S1?	1	5.4 \pm 0.0
N	<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	11	10.2 \pm 0.0
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3	1	7.1 \pm 0.0
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S2?	1	10.7 \pm 0.0
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3	1	5.7 \pm 0.0
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	1	5.7 \pm 0.0
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3	1	10.2 \pm 0.0
N	<i>Fuscopannaria ahlneri</i>	Corrugated Shingles Lichen				S3	4	10.2 \pm 0.0
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3	2	8.0 \pm 0.0
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3	4	5.6 \pm 0.0
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S3	4	10.1 \pm 0.0
N	<i>Physconia detera</i>	Bottlebrush Frost Lichen				S3S4	1	12.3 \pm 0.0
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4	36	10.1 \pm 0.0
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	3	12.3 \pm 0.0
P	<i>Neottia bifolia</i>	Southern Twayblade				S3	1	11.1 \pm 0.0
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S3	1	10.6 \pm 7.0
P	<i>Agalinis neoscotica</i>	Nova Scotia Agalinis				S3S4	1	6.2 \pm 0.0

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Salmo salar</i> pop. 6	Atlantic Salmon - Nova Scotia Southern Upland pop.	Endangered			S1	1	4.9 \pm 0.0
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2S3B	1	9.7 \pm 0.0
A	<i>Hirundo rustica</i>	Barn Swallow	Threatened	Threatened	Endangered	S2S3B	5	10.6 \pm 7.0
A	<i>Cardellina canadensis</i>	Canada Warbler	Threatened	Threatened	Endangered	S3B	13	10.6 \pm 7.0
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	11	2.1 \pm 0.0
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Threatened	Threatened	S2B	7	10.6 \pm 7.0
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S2B	10	10.6 \pm 7.0
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	1	7.5 \pm 0.0
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	2	10.6 \pm 7.0
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3S4B,S3N	2	4.2 \pm 7.0
A	<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4	3	4.1 \pm 0.0
A	<i>Circus hudsonius</i>	Northern Harrier	Not At Risk			S3S4B	2	10.6 \pm 7.0
A	<i>Alces americanus</i>	Moose			Endangered	S1	5	10.1 \pm 0.0
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B	4	2.7 \pm 0.0
A	<i>Setophaga tigrina</i>	Cape May Warbler				S2B	1	5.8 \pm 7.0
A	<i>Spinus pinus</i>	Pine Siskin				S2S3	2	4.2 \pm 7.0
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S2S3B,S5N	4	10.6 \pm 7.0
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	9	10.6 \pm 7.0
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	25	1.9 \pm 0.0
A	<i>Sitta canadensis</i>	Red-breasted Nuthatch				S3	5	11.3 \pm 0.0

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Alosa pseudoharengus</i>	Alewife				S3	1	7.8 ± 0.0
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	1	7.8 ± 0.0
A	<i>Falco sparverius</i>	American Kestrel				S3B	2	4.2 ± 7.0
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B	3	4.2 ± 7.0
A	<i>Dumetella carolinensis</i>	Gray Catbird				S3B	2	4.2 ± 7.0
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S3S4M	10	10.6 ± 7.0
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	3	5.6 ± 0.0
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B	3	4.2 ± 7.0
A	<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher				S3S4B	20	1.5 ± 0.0
A	<i>Regulus calendula</i>	Ruby-crowned Kinglet				S3S4B	21	0.6 ± 0.0
A	<i>Catharus ustulatus</i>	Swainson's Thrush				S3S4B	17	10.6 ± 7.0
A	<i>Oreothlypis peregrina</i>	Tennessee Warbler				S3S4B	3	4.2 ± 7.0
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B	25	0.9 ± 0.0
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2B	1	6.5 ± 0.0

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 indicated below with “YES”.

Nova Scotia

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within the Study Site?
<i>Fraxinus nigra</i>	Black Ash		Threatened	No
<i>Emydoidea blandingii</i>	Blanding's Turtle - Nova Scotia pop.	Endangered	Vulnerable	No
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	No
<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius pop.	Special Concern	Vulnerable	No
<i>Bat hibernaculum</i> or bat species occurrence		[Endangered] ¹	[Endangered] ¹	No

¹ *Myotis lucifugus* (Little Brown Myotis), *Myotis septentrionalis* (Long-eared Myotis), and *Perimyotis subflavus* (Tri-colored Bat or Eastern Pipistrelle) are all Endangered under the Federal Species at Risk Act and the NS Endangered Species Act.

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.

# recs	CITATION
134	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
80	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database [as of 2018-03]. Mersey Tobeatic Research Institute.
46	Neily, T.H. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
25	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
18	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
13	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
9	Cameron, R.P. 2009. Cyanolichen database. Nova Scotia Environment & Labour, 1724 recs.
8	Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobeatic Research Institute.
6	iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
5	Benjamin, L.K. 2011. NSDNR fieldwork & consultant reports 1997, 2009-10. Nova Scotia Dept Natural Resources, 85 recs.
5	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 .
4	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
3	Richardson, D., Anderson, F., Cameron, R., McMullin, T., Clayden, S. 2014. Field Work Report on Black Foam Lichen (Anzia colpodes). COSEWIC.
2	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
2	Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.

# recs	CITATION
2	Cameron, R.P. 2006. Erioderma pedicellatum 2006 field data. NS Dept of Environment, 9 recs.
2	Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
2	Staicer, C. & Bliss, S.; Achenbach, L. 2017. Occurrences of tracked breeding birds in forested wetlands. , 303 records.
1	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
1	Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
1	Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
1	e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
1	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.
1	Munro, Marian K. Tracked lichen specimens, Nova Scotia Provincial Museum of Natural History Herbarium. Atlantic Canada Conservation Data Centre. 2019.
1	Neily, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobeatic Research Institute, 1691 records.
1	Neily, T.H. 2010. Erioderma Pedicellatum records 2005-09. Mersey Tobeatic Research Institute, 67 recs.
1	Neily, T.H. 2012. 2012 Erioderma pedicellatum records in Nova Scotia.
1	Neily, T.H. 2019. Tom Neily NS Bryophyte records (2009-2013). T.H. Neily, Atlantic Canada Conservation Data Centre, 1029 specimen records.
1	Nova Scotia Department of Lands and Forestry. 2020. NS Lands Proposed or Pending Protection. NSDLF, 231 features. Received via email.
1	Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia. , 181 records.
1	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.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 30,721 records of 150 vertebrate and 1166 records of 65 invertebrate fauna; 4857 records of 263 vascular and 2026 records of 129 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 study area centroid to the closest observation (\pm the precision, in km, of the record).

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	73	25.9 \pm 0.0	NS
A	<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	Endangered	Endangered	Endangered	S1	5	26.1 \pm 0.0	NS
A	<i>Perimyotis subflavus</i>	Eastern Pipistrelle	Endangered	Endangered	Endangered	S1	7	54.2 \pm 0.0	NS
A	<i>Salmo salar pop. 1</i>	Atlantic Salmon - Inner Bay of Fundy pop.	Endangered	Endangered		S1	22	39.1 \pm 0.0	NS
A	<i>Salmo salar pop. 6</i>	Atlantic Salmon - Nova Scotia Southern Upland pop.	Endangered			S1	43	4.9 \pm 0.0	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus ssp	Endangered	Endangered	Endangered	S1B	713	24.7 \pm 0.0	NS
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	70	30.0 \pm 0.0	NS
A	<i>Morone saxatilis pop. 2</i>	Striped Bass - Bay of Fundy pop.	Endangered			S1B	2	53.4 \pm 0.0	NS
A	<i>Calidris canutus rufa</i>	Red Knot rufa ssp	Endangered	Endangered	Endangered	S2M	122	46.2 \pm 0.0	NS
A	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	Endangered	Threatened		SNA	1	92.9 \pm 0.0	NS
A	<i>Protonotaria citrea</i>	Prothonotary Warbler	Endangered	Endangered		SNA	1	87.7 \pm 0.0	NS
A	<i>Icteria virens</i>	Yellow-Breasted Chat	Endangered	Endangered		SNA	5	39.8 \pm 0.0	NS
A	<i>Colinus virginianus</i>	Northern Bobwhite	Endangered	Endangered			2	44.6 \pm 0.0	NS
A	<i>Antrostomus vociferus</i>	Eastern Whip-Poor-Will	Threatened	Threatened	Threatened	S1?B	10	34.2 \pm 7.0	NS
A	<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S1S2M	29	58.2 \pm 0.0	NS
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	4565	20.3 \pm 0.0	NS
A	<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Threatened			S2	2	52.0 \pm 0.0	NS
A	<i>Anguilla rostrata</i>	American Eel	Threatened			S2	41	18.9 \pm 0.0	NS
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2B,S1M	202	11.8 \pm 7.0	NS
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2S3B	1001	9.7 \pm 0.0	NS
A	<i>Hirundo rustica</i>	Barn Swallow	Threatened	Threatened	Endangered	S2S3B	735	4.2 \pm 7.0	NS
A	<i>Cardellina canadensis</i>	Canada Warbler	Threatened	Threatened	Endangered	S3B	782	2.1 \pm 0.0	NS
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Threatened	Threatened	Vulnerable	S3S4B	376	22.0 \pm 0.0	NS
A	<i>Melanerpes lewis</i>	Lewis's Woodpecker	Threatened	Threatened		SNA	1	83.7 \pm 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB	33	17.2 ± 7.0	NS
A	<i>Salmo salar pop. 12</i>	Atlantic Salmon - Gaspé - Southern Gulf of St Lawrence pop.	Special Concern			S1	32	55.4 ± 50.0	NS
A	<i>Passerculus sandwichensis princeps</i>	Savannah Sparrow princeps ssp	Special Concern	Special Concern		S1B	6	28.1 ± 0.0	NS
A	<i>Bucephala islandica (Eastern pop.)</i>	Barrow's Goldeneye - Eastern pop.	Special Concern	Special Concern		S1N	2	66.2 ± 0.0	NS
A	<i>Asio flammeus</i>	Short-eared Owl	Special Concern	Special Concern		S1S2B	9	60.6 ± 7.0	NS
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	229	2.1 ± 0.0	NS
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Threatened	Threatened	S2B	360	4.2 ± 7.0	NS
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S2B	759	4.2 ± 7.0	NS
A	<i>Histrionicus histrionicus pop. 1</i>	Harlequin Duck - Eastern pop.	Special Concern	Special Concern	Endangered	S2N	44	28.7 ± 0.0	NS
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	5	58.2 ± 0.0	NS
A	<i>Morone saxatilis pop. 1</i>	Striped Bass- Southern Gulf of St Lawrence pop.	Special Concern			S2S3N	1	95.0 ± 1.0	NS
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	118	7.5 ± 0.0	NS
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	514	4.2 ± 7.0	NS
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3S4B,S3N	339	4.2 ± 7.0	NS
A	<i>Phocoena phocoena pop. 1</i>	Harbour Porpoise - Northwest Atlantic pop.	Special Concern			S4	1	76.0 ± 0.0	NS
A	<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern			S4S5	79	35.8 ± 10.0	NS
A	<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	Special Concern	Special Concern		SNA	3	58.2 ± 0.0	NS
A	<i>Zonotrichia querula</i>	Harris's Sparrow	Special Concern			SNA	1	74.4 ± 0.0	NS
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1?B	5	60.0 ± 0.0	NS
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1B	12	67.4 ± 7.0	NS
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S1B	2	96.0 ± 0.0	NS
A	<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Not At Risk	Special Concern	Vulnerable	S1B,SNAM	2	79.0 ± 0.0	NS
A	<i>Sorex dispar</i>	Long-tailed Shrew	Not At Risk			S2	2	91.8 ± 5.0	NS
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S2?B	13	35.6 ± 7.0	NS
A	<i>Globicephala melas</i>	Long-finned Pilot Whale	Not At Risk			S2S3	2	19.3 ± 100.0	NS
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	26	32.7 ± 0.0	NS
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	251	20.5 ± 7.0	NS
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	40	24.2 ± 7.0	NS
A	<i>Buteo lagopus</i>	Rough-legged Hawk	Not At Risk			S3N	1	72.4 ± 0.0	NS
A	<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4	97	4.1 ± 0.0	NS
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4	3	80.1 ± 2.0	NS
A	<i>Circus hudsonius</i>	Northern Harrier	Not At Risk			S3S4B	304	4.2 ± 7.0	NS
A	<i>Ammospiza nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	112	30.0 ± 0.0	NS
A	<i>Morone saxatilis</i>	Striped Bass	E,SC			S2S3	4	52.2 ± 0.0	NS
A	<i>Gadus morhua</i>	Atlantic Cod	E,SC,DD			SNR	1	90.8 ± 0.0	NS
A	<i>Alces americanus</i>	Moose			Endangered	S1	64	6.7 ± 0.0	NS
A	<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S1?	4	55.8 ± 7.0	NS
A	<i>Passerina cyanea</i>	Indigo Bunting				S1?B	12	55.2 ± 7.0	NS
A	<i>Uria aalge</i>	Common Murre				S1?B,S5N	1	63.9 ± 0.0	NS
A	<i>Anas acuta</i>	Northern Pintail				S1B	15	55.2 ± 7.0	NS
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B	3	69.1 ± 0.0	NS
A	<i>Gallinula galeata</i>	Common Gallinule				S1B	5	74.4 ± 7.0	NS
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	13	57.9 ± 7.0	NS
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	26	59.4 ± 7.0	NS
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	10	59.8 ± 7.0	NS
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B	18	24.3 ± 7.0	NS
A	<i>Setophaga pinus</i>	Pine Warbler				S1B	17	58.6 ± 0.0	NS
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B,S3M	492	28.8 ± 0.0	NS
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B,S3S4M	771	25.5 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Vespertilionidae sp.</i>	bat species				S1S2	102	9.7 ± 0.0	NS
A	<i>Lasiurus cinereus</i>	Hoary Bat				S1S2B,S1M	2	54.0 ± 0.0	NS
A	<i>Pluvialis dominica</i>	American Golden-Plover				S1S2M	67	52.4 ± 0.0	NS
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B	28	2.7 ± 0.0	NS
A	<i>Spatula clypeata</i>	Northern Shoveler				S2B	8	45.3 ± 7.0	NS
A	<i>Mareca strepera</i>	Gadwall				S2B	22	31.8 ± 0.0	NS
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	20	34.2 ± 7.0	NS
A	<i>Setophaga tigrina</i>	Cape May Warbler				S2B	117	5.8 ± 7.0	NS
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B	19	31.6 ± 7.0	NS
A	<i>Pooecetes gramineus</i>	Vesper Sparrow				S2B	22	52.7 ± 7.0	NS
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	80	17.6 ± 7.0	NS
A	<i>Bucephala clangula</i>	Common Goldeneye				S2B,S5N	134	11.8 ± 7.0	NS
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2S3	63	25.2 ± 7.0	NS
A	<i>Asio otus</i>	Long-eared Owl				S2S3	30	24.3 ± 7.0	NS
A	<i>Spinus pinus</i>	Pine Siskin				S2S3	319	4.2 ± 7.0	NS
A	<i>Cathartes aura</i>	Turkey Vulture				S2S3B	16	32.4 ± 0.0	NS
A	<i>Rallus limicola</i>	Virginia Rail				S2S3B	24	55.2 ± 7.0	NS
A	<i>Tringa semipalmata</i>	Willet				S2S3B	810	20.5 ± 7.0	NS
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	203	20.5 ± 7.0	NS
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S2S3B	288	18.5 ± 7.0	NS
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B	49	25.8 ± 7.0	NS
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S2S3B,S5N	118	4.2 ± 7.0	NS
A	<i>Numenius phaeopus hudsonicus</i>	Hudsonian Whimbrel				S2S3M	102	31.2 ± 0.0	NS
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S2S3M	84	47.1 ± 0.0	NS
A	<i>Phalaropus fulicarius</i>	Red Phalarope				S2S3M	3	66.1 ± 0.0	NS
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	475	2.0 ± 0.0	NS
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	694	1.9 ± 0.0	NS
A	<i>Sitta canadensis</i>	Red-breasted Nuthatch				S3	758	4.2 ± 7.0	NS
A	<i>Alosa pseudoharengus</i>	Alewife				S3	25	7.8 ± 0.0	NS
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	63	7.8 ± 0.0	NS
A	<i>Salvelinus namaycush</i>	Lake Trout				S3	2	21.6 ± 0.0	NS
A	<i>Menidia menidia</i>	Atlantic Silverside				S3	1	70.9 ± 0.0	NS
A	<i>Pekania pennanti</i>	Fisher				S3	5	51.1 ± 7.0	NS
A	<i>Calidris maritima</i>	Purple Sandpiper				S3?N	41	29.5 ± 12.0	NS
A	<i>Calcarius lapponicus</i>	Lapland Longspur				S3?N	2	28.8 ± 0.0	NS
A	<i>Falco sparverius</i>	American Kestrel				S3B	321	4.2 ± 7.0	NS
A	<i>Charadrius vociferus</i>	Killdeer				S3B	423	11.3 ± 7.0	NS
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B	395	4.2 ± 7.0	NS
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	68	23.0 ± 0.0	NS
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	72	17.2 ± 7.0	NS
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	168	17.6 ± 7.0	NS
A	<i>Dumetella carolinensis</i>	Gray Catbird				S3B	315	4.2 ± 7.0	NS
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B	87	15.8 ± 7.0	NS
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S3S4M	788	4.2 ± 7.0	NS
A	<i>Oceanodroma leucorhoa</i>	Leach's Storm-Petrel				S3B,S5M	67	25.2 ± 7.0	NS
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S3B,S5N	2	74.6 ± 0.0	NS
A	<i>Fratercula arctica</i>	Atlantic Puffin				S3B,S5N	4	37.1 ± 7.0	NS
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M	668	28.8 ± 0.0	NS
A	<i>Tringa flavipes</i>	Lesser Yellowlegs				S3M	498	28.0 ± 0.0	NS
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	284	27.6 ± 0.0	NS
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	683	28.6 ± 0.0	NS
A	<i>Calidris fuscicollis</i>	White-rumped Sandpiper				S3M	279	46.2 ± 0.0	NS
A	<i>Limnodromus griseus</i>	Short-billed Dowitcher				S3M	420	46.2 ± 0.0	NS
A	<i>Calidris alba</i>	Sanderling				S3M,S2N	400	46.2 ± 0.0	NS
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N	16	45.3 ± 7.0	NS
A	<i>Somateria mollissima</i>	Common Eider				S3S4	562	20.5 ± 7.0	NS
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	162	5.6 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	134	11.3 ± 7.0	NS
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B	221	18.5 ± 7.0	NS
A	<i>Spatula discors</i>	Blue-winged Teal				S3S4B	92	15.8 ± 7.0	NS
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B	626	4.2 ± 7.0	NS
A	<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher				S3S4B	584	1.5 ± 0.0	NS
A	<i>Regulus calendula</i>	Ruby-crowned Kinglet				S3S4B	1381	0.6 ± 0.0	NS
A	<i>Catharus fuscescens</i>	Veery				S3S4B	337	15.8 ± 7.0	NS
A	<i>Catharus ustulatus</i>	Swainson's Thrush				S3S4B	1086	2.1 ± 0.0	NS
A	<i>Oreothlypis peregrina</i>	Tennessee Warbler				S3S4B	282	4.2 ± 7.0	NS
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B	419	0.9 ± 0.0	NS
A	<i>Setophaga striata</i>	Blackpoll Warbler				S3S4B	112	11.8 ± 7.0	NS
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4B	81	20.5 ± 7.0	NS
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3S4B,S5N	130	24.3 ± 7.0	NS
A	<i>Bucephala albeola</i>	Bufflehead				S3S4N	50	28.2 ± 11.0	NS
A	<i>Lanius borealis</i>	Northern Shrike				S3S4N	1	61.5 ± 0.0	NS
A	<i>Leucophaeus atricilla</i>	Laughing Gull				SHB	9	25.0 ± 0.0	NS
A	<i>Progne subis</i>	Purple Martin				SHB	5	55.8 ± 7.0	NS
A	<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N	5	25.2 ± 7.0	NS
A	<i>Morus bassanus</i>	Northern Gannet				SHB,S5M	13	28.4 ± 0.0	NS
A	<i>Aythya americana</i>	Redhead				SHB,SNAM	2	74.6 ± 0.0	NS
I	<i>Gomphus ventricosus</i>	Skillet Clubtail	Endangered	Endangered		S1	2	62.1 ± 0.0	NS
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2B	116	6.5 ± 0.0	NS
I	<i>Danaus plexippus plexippus</i>	Monarch	Endangered	Special Concern		S2B	1	99.8 ± 0.0	NS
I	<i>Barnea truncata</i>	Atlantic Mud-piddock	Threatened	Threatened		S1	1	91.3 ± 1.0	NS
I	<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S1S2	15	49.9 ± 1.0	NS
I	<i>Bombus terricola</i>	Yellow-banded Bumblebee	Special Concern	Special Concern	Vulnerable	S3	14	50.0 ± 0.0	NS
I	<i>Satyrium acadica</i>	Acadian Hairstreak				S1	9	72.6 ± 2.0	NS
I	<i>Eroria laeta</i>	Early Hairstreak				S1	1	81.3 ± 1.0	NS
I	<i>Neurocordulia michaeli</i>	Broadtailed Shadowdragon				S1	26	33.0 ± 0.0	NS
I	<i>Somatochlora brevicincta</i>	Quebec Emerald				S1	1	54.6 ± 0.0	NS
I	<i>Polygonia comma</i>	Eastern Comma				S1?	7	77.2 ± 0.0	NS
I	<i>Polygonia satyrus</i>	Satyr Comma				S1?	6	54.7 ± 5.0	NS
I	<i>Strymon melinus</i>	Grey Hairstreak				S1S2	1	81.3 ± 1.0	NS
I	<i>Nymphalis l-album</i>	Compton Tortoiseshell				S1S2	16	55.9 ± 2.0	NS
I	<i>Somatochlora kennedyi</i>	Kennedy's Emerald				S1S2	3	72.8 ± 1.0	NS
I	<i>Coenagrion resolutum</i>	Taiga Bluet				S1S2	2	70.7 ± 1.0	NS
I	<i>Stylurus scudderi</i>	Zebra Clubtail				S1S2	4	41.9 ± 0.0	NS
I	<i>Lycaena hyllus</i>	Bronze Copper				S2	23	36.5 ± 2.0	NS
I	<i>Lycaena dospassosi</i>	Salt Marsh Copper				S2	14	79.6 ± 1.0	NS
I	<i>Satyrium calanus</i>	Banded Hairstreak				S2	29	61.7 ± 2.0	NS
I	<i>Boloria chariclea</i>	Arctic Fritillary				S2	1	77.3 ± 2.0	NS
I	<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2	16	55.9 ± 2.0	NS
I	<i>Epitheca princeps</i>	Prince Baskettail				S2	9	64.7 ± 0.0	NS
I	<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S2	3	99.9 ± 0.0	NS
I	<i>Enallagma signatum</i>	Orange Bluet				S2	3	69.9 ± 0.0	NS
I	<i>Margaritifera margaritifera</i>	Eastern Pearlshell				S2	120	19.7 ± 0.0	NS
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S2?B	7	55.6 ± 1.0	NS
I	<i>Thorybes pylades</i>	Northern Cloudywing				S2S3	27	45.5 ± 2.0	NS
I	<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S2S3	30	20.9 ± 0.0	NS
I	<i>Satyrium liparops</i>	Striped Hairstreak				S2S3	27	26.0 ± 0.0	NS
I	<i>Euphydryas phaeton</i>	Baltimore Checkerspot				S2S3	33	20.7 ± 2.0	NS
I	<i>Ophiogomphus mainensis</i>	Maine Snaketail				S2S3	14	31.3 ± 0.0	NS
I	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail				S2S3	55	41.1 ± 0.0	NS
I	<i>Somatochlora forcipata</i>	Forcipate Emerald				S2S3	3	72.8 ± 1.0	NS
I	<i>Somatochlora franklini</i>	Delicate Emerald				S2S3	1	88.6 ± 1.0	NS
I	<i>Alasmidonta undulata</i>	Triangle Floater				S2S3	24	19.7 ± 0.0	NS
I	<i>Strophiona nitens</i>	a Longhorned Beetle				S3	2	81.5 ± 0.0	NS
I	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3	1	73.9 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
I	<i>Naemia seriata</i>	a Ladybird beetle				S3	2	66.9 ± 0.0	NS
I	<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle				S3	1	81.2 ± 0.0	NS
I	<i>Monochamus marmorator</i>	a Longhorned Beetle				S3	2	65.3 ± 0.0	NS
I	<i>Trachysida aspera</i>	a Longhorned Beetle				S3	1	71.9 ± 0.0	NS
I	<i>Astylopsis sexguttata</i>	A Longhorned Beetle				S3	1	72.2 ± 0.0	NS
I	<i>Callophrys henrici</i>	Henry's Elfin				S3	25	27.5 ± 0.0	NS
I	<i>Callophrys lanoraieensis</i>	Bog Elfin				S3	8	22.2 ± 1.0	NS
I	<i>Speyeria aphrodite</i>	Aphrodite Fritillary				S3	25	55.9 ± 2.0	NS
I	<i>Polygonia faunus</i>	Green Comma				S3	19	33.6 ± 0.0	NS
I	<i>Megisto cymela</i>	Little Wood-satyr				S3	5	69.7 ± 1.0	NS
I	<i>Oeneis jutta</i>	Jutta Arctic				S3	7	35.0 ± 0.0	NS
I	<i>Aeshna clepsydra</i>	Mottled Darner				S3	12	45.5 ± 1.0	NS
I	<i>Aeshna constricta</i>	Lance-Tipped Darner				S3	17	38.8 ± 1.0	NS
I	<i>Boyeria grafiانا</i>	Ocellated Darner				S3	10	42.3 ± 1.0	NS
I	<i>Gomphaeschna furcillata</i>	Harlequin Darner				S3	5	62.7 ± 0.0	NS
I	<i>Somatochlora tenebrosa</i>	Clamp-Tipped Emerald				S3	12	54.0 ± 1.0	NS
I	<i>Nannothemis bella</i>	Elfin Skimmer				S3	13	56.4 ± 0.0	NS
I	<i>Sympetrum danae</i>	Black Meadowhawk				S3	5	67.4 ± 1.0	NS
I	<i>Enallagma vernale</i>	Vernal Bluet				S3	5	51.1 ± 0.0	NS
I	<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3	2	47.1 ± 0.0	NS
I	<i>Cupido comyntas</i>	Eastern Tailed Blue				S3?	5	20.9 ± 0.0	NS
I	<i>Polygonia interrogationis</i>	Question Mark				S3B	127	26.0 ± 0.0	NS
I	<i>Erynnis juvenalis</i>	Juvenal's Duskywing				S3S4	49	49.6 ± 0.0	NS
I	<i>Amblyscirtes vialis</i>	Common Roadside-Skipper				S3S4	48	12.2 ± 0.0	NS
I	<i>Polygonia progne</i>	Grey Comma				S3S4	43	24.7 ± 0.0	NS
I	<i>Lanthus parvulus</i>	Northern Pygmy Clubtail				S3S4	13	41.6 ± 0.0	NS
I	<i>Lampsilis radiata</i>	Eastern Lampmussel				S3S4	37	37.3 ± 0.0	NS
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	489	4.9 ± 0.0	NS
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1S2	20	6.4 ± 0.0	NS
N	<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1	15	34.2 ± 0.0	NS
N	<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S1S2	20	30.6 ± 1.0	NS
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S2S3	7	5.5 ± 0.0	NS
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3	16	10.3 ± 1.0	NS
N	<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S1?	28	5.4 ± 0.0	NS
N	<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	130	3.4 ± 0.0	NS
N	<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S1S2	7	49.5 ± 0.0	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3	10	7.1 ± 0.0	NS
N	<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen				S1	1	94.3 ± 5.0	NS
N	<i>Leptogium schraderi</i>	Schrader's Jellyskin Lichen				S1	1	65.8 ± 0.0	NS
N	<i>Bryoria nitidula</i>	Tundra Horsehair Lichen				S1	1	83.3 ± 2.0	NS
N	<i>Calypogeia neogaea</i>	Common Pouchwort				S1?	1	95.6 ± 0.0	NS
N	<i>Aloina rigida</i>	Aloe-Like Rigid Screw Moss				S1?	2	92.7 ± 0.0	NS
N	<i>Tortula obtusifolia</i>	a Moss				S1?	3	19.3 ± 0.0	NS
N	<i>Paludella squarrosa</i>	Tufted Fen Moss				S1?	3	95.5 ± 0.0	NS
N	<i>Schistostega pennata</i>	Luminous Moss				S1?	1	87.1 ± 0.0	NS
N	<i>Syntrichia ruralis</i>	a Moss				S1?	1	70.4 ± 0.0	NS
N	<i>Lichina confinis</i>	Marine Seaweed Lichen				S1?	4	25.7 ± 2.0	NS
N	<i>Polychidium muscicola</i>	Eyed Mossthorns Woollybear Lichen				S1?	1	18.9 ± 0.0	NS
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen				S1?	5	49.6 ± 0.0	NS
N	<i>Sematophyllum demissum</i>	a Moss				S1S2	1	70.9 ± 2.0	NS
N	<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss				S1S2	2	67.0 ± 3.0	NS
N	<i>Timmia megapolitana</i>	Metropolitan Timmia Moss				S1S2	1	87.4 ± 0.0	NS
N	<i>Cyрто-hypnum minutulum</i>	Tiny Cedar Moss				S1S2	1	19.6 ± 0.0	NS
N	<i>Bryohaplocladium</i>	Tiny-leaved Haplocladium				S1S2	1	67.4 ± 5.0	NS

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	<i>microphyllum</i>	Moss							
N	<i>Catapyrenium squamulosum</i>	Limy Soil Stipplescale Lichen				S1S2	1	20.4 ± 6.0	NS
N	<i>Candelaria concolor</i>	Elfin Candleflame Lichen				S1S2	1	77.4 ± 0.0	NS
N	<i>Peltigera neckeri</i>	Black-saddle Pelt Lichen				S1S3	1	88.0 ± 0.0	NS
N	<i>Stereocaulon grande</i>	Grand Foam Lichen				S1S3	1	83.3 ± 0.0	NS
N	<i>Stereocaulon intermedium</i>	Pacific Brain Foam Lichen				S1S3	1	81.5 ± 0.0	NS
N	<i>Cystocoleus ebeneus</i>	Rockgossamer Lichen				S2	2	82.9 ± 0.0	NS
N	<i>Riccardia multifida</i>	Delicate Germanderwort				S2?	2	21.7 ± 0.0	NS
N	<i>Anacamptodon splachnoides</i>	a Moss				S2?	1	78.5 ± 30.0	NS
N	<i>Anomodon viticulosus</i>	a Moss				S2?	1	95.3 ± 5.0	NS
N	<i>Atrichum angustatum</i>	Lesser Smoothcap Moss				S2?	3	56.8 ± 2.0	NS
N	<i>Campyllum polygamum</i>	a Moss				S2?	2	43.2 ± 0.0	NS
N	<i>Ditrichum rhynchostegium</i>	a Moss				S2?	1	82.3 ± 1.0	NS
N	<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss				S2?	4	49.5 ± 0.0	NS
N	<i>Kiaeria starkei</i>	Starke's Fork Moss				S2?	1	36.3 ± 10.0	NS
N	<i>Philonotis marchica</i>	a Moss				S2?	2	53.3 ± 0.0	NS
N	<i>Platydictya jungermannioides</i>	False Willow Moss				S2?	2	48.2 ± 0.0	NS
N	<i>Racomitrium affine</i>	a Moss				S2?	2	34.1 ± 0.0	NS
N	<i>Saelania glaucescens</i>	Blue Dew Moss				S2?	1	79.1 ± 0.0	NS
N	<i>Sematophyllum marylandicum</i>	a Moss				S2?	2	66.9 ± 6.0	NS
N	<i>Sphagnum subnitens</i>	Lustrous Peat Moss				S2?	1	31.5 ± 2.0	NS
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S2?	3	10.7 ± 0.0	NS
N	<i>Pseudotaxiphyllum distichaceum</i>	a Moss				S2?	1	31.1 ± 0.0	NS
N	<i>Cyrtomnium hymenophylloides</i>	Short-pointed Lantern Moss				S2?	2	75.3 ± 5.0	NS
N	<i>Platylomella lescurii</i>	a Moss				S2?	1	83.3 ± 0.0	NS
N	<i>Usnea flavocardia</i>	Blood-splattered Beard Lichen				S2?	1	91.4 ± 4.0	NS
N	<i>Leptogium teretiusculum</i>	Beaded Jellyskin Lichen				S2?	7	45.7 ± 0.0	NS
N	<i>Cladonia labradorica</i>	Labrador Lichen				S2?	1	87.9 ± 0.0	NS
N	<i>Placynthium flabellousum</i>	Scaly Ink Lichen				S2?	1	39.0 ± 17.0	NS
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S2?	16	24.0 ± 0.0	NS
N	<i>Ephemerum serratum</i>	a Moss				S2S3	2	49.5 ± 0.0	NS
N	<i>Eurhynchium hians</i>	Light Beaked Moss				S2S3	2	35.2 ± 25.0	NS
N	<i>Tortula truncata</i>	a Moss				S2S3	2	38.6 ± 300.0	NS
N	<i>Limprichtia revolvens</i>	a Moss				S2S3	1	95.5 ± 0.0	NS
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2S3	6	46.7 ± 0.0	NS
N	<i>Solorina saccata</i>	Woodland Owl Lichen				S2S3	4	83.3 ± 0.0	NS
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3	4	5.7 ± 0.0	NS
N	<i>Usnocetraria oakesiana</i>	Yellow Band Lichen				S2S3	1	80.5 ± 0.0	NS
N	<i>Cetraria muricata</i>	Spiny Heath Lichen				S2S3	1	95.8 ± 1.0	NS
N	<i>Cladonia incrassata</i>	Powder-foot British Soldiers Lichen				S2S3	1	40.1 ± 0.0	NS
N	<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup				S2S3	1	82.3 ± 5.0	NS
N	<i>Cladonia parasitica</i>	Fence-rail Lichen				S2S3	2	81.8 ± 0.0	NS
N	<i>Leptogium milligranum</i>	Stretched Jellyskin Lichen				S2S3	3	92.7 ± 0.0	NS
N	<i>Leptogium tenuissimum</i>	Birdnest Jellyskin Lichen				S2S3	15	19.3 ± 0.0	NS
N	<i>Myelochroa aurulenta</i>	Powdery Axil-bristle Lichen				S2S3	1	56.2 ± 0.0	NS
N	<i>Parmelia fertilis</i>	Fertile Shield Lichen				S2S3	1	24.8 ± 0.0	NS
N	<i>Hypotrachyna minarum</i>	Hairless-spined Shield Lichen				S2S3	1	30.5 ± 0.0	NS
N	<i>Racodium rupestre</i>	Rockhair Lichen				S2S3	1	81.0 ± 1.0	NS
N	<i>Usnea rubicunda</i>	Red Beard Lichen				S2S3	3	55.0 ± 0.0	NS

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N	<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen				S2S3	5	68.6 ± 0.0	NS
N	<i>Physcia subtilis</i>	Slender Rosette Lichen				S2S3	1	33.6 ± 0.0	NS
N	<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen				S2S3	3	19.4 ± 1.0	NS
N	<i>Usnea flammea</i>	Coastal Bushy Beard Lichen				S2S3	1	87.7 ± 1.0	NS
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen				S3	2	20.6 ± 0.0	NS
N	<i>Collema tenax</i>	Soil Tarpaper Lichen				S3	5	46.2 ± 0.0	NS
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	9	5.7 ± 0.0	NS
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3	27	10.2 ± 0.0	NS
N	<i>Leptogium subtile</i>	Appressed Jellyskin Lichen				S3	8	11.4 ± 0.0	NS
N	<i>Fuscopannaria ahlneri</i>	Corrugated Shingles Lichen				S3	56	5.5 ± 0.0	NS
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3	10	8.0 ± 0.0	NS
N	<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen				S3	1	45.3 ± 0.0	NS
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3	33	5.2 ± 0.0	NS
N	<i>Leptogium lichenoides</i>	Tattered Jellyskin Lichen				S3	23	47.0 ± 0.0	NS
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3	4	35.6 ± 0.0	NS
N	<i>Placynthium nigrum</i>	Common Ink Lichen				S3	2	19.3 ± 0.0	NS
N	<i>Platismatia norvegica</i>	Oldgrowth Rag Lichen				S3	1	91.0 ± 0.0	NS
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S3	46	5.0 ± 0.0	NS
N	<i>Usnea hirta</i>	Bristly Beard Lichen				S3	2	78.4 ± 0.0	NS
N	<i>Fuscopannaria sorediata</i>	a Lichen				S3	7	25.3 ± 0.0	NS
N	<i>Ephebe lanata</i>	Waterside Rockshag Lichen				S3	2	18.9 ± 0.0	NS
N	<i>Calliergon giganteum</i>	Giant Spear Moss				S3?	1	96.4 ± 3.0	NS
N	<i>Anomodon tristis</i>	a Moss				S3?	3	30.6 ± 15.0	NS
N	<i>Helodium blandowii</i>	Wetland-plume Moss				S3?	3	70.2 ± 3.0	NS
N	<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?	2	13.8 ± 0.0	NS
N	<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3?	7	65.0 ± 7.0	NS
N	<i>Cladonia stygia</i>	Black-footed Reindeer Lichen				S3?	5	14.0 ± 0.0	NS
N	<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S3S4	1	74.1 ± 3.0	NS
N	<i>Dicranella varia</i>	a Moss				S3S4	2	84.0 ± 0.0	NS
N	<i>Encalypta procera</i>	Slender Extinguisher Moss				S3S4	4	96.8 ± 0.0	NS
N	<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4	1	79.1 ± 0.0	NS
N	<i>Sphagnum lindbergii</i>	Lindberg's Peat Moss				S3S4	1	27.6 ± 0.0	NS
N	<i>Splachnum ampullaceum</i>	Cruet Dung Moss				S3S4	2	23.9 ± 0.0	NS
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4	2	24.3 ± 0.0	NS
N	<i>Hylocomiastrum pyrenaicum</i>	a Feather Moss				S3S4	1	79.1 ± 0.0	NS
N	<i>Arctoparmelia incurva</i>	Finger Ring Lichen				S3S4	63	46.1 ± 0.0	NS
N	<i>Hypogymnia vittata</i>	Slender Monk's Hood Lichen				S3S4	71	45.3 ± 0.0	NS
N	<i>Leptogium acadense</i>	Acadian Jellyskin Lichen				S3S4	11	23.2 ± 0.0	NS
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	1	83.3 ± 0.0	NS
N	<i>Vahliella leucophaea</i>	Shelter Shingle Lichen				S3S4	1	75.3 ± 0.0	NS
N	<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4	2	67.6 ± 0.0	NS
N	<i>Parmeliopsis hyperopta</i>	Gray Starburst Lichen				S3S4	2	68.5 ± 1.0	NS
N	<i>Parmotrema chinense</i>	Powdered Ruffle Lichen				S3S4	2	45.7 ± 0.0	NS
N	<i>Peltigera hymenina</i>	Cloudy Pelt Lichen				S3S4	1	83.3 ± 2.0	NS
N	<i>Physconia detersa</i>	Bottlebrush Frost Lichen				S3S4	7	12.3 ± 0.0	NS
N	<i>Sphaerophorus fragilis</i>	Fragile Coral Lichen				S3S4	5	46.2 ± 0.0	NS
N	<i>Coccocarpiia palmicola</i>	Salted Shell Lichen				S3S4	595	3.1 ± 0.0	NS
N	<i>Physcia caesia</i>	Blue-gray Rosette Lichen				S3S4	1	87.7 ± 1.0	NS
N	<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4	4	49.8 ± 3.0	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	27	8.6 ± 1.0	NS
N	<i>Bryoria pikei</i>	Pike's Horsehair Lichen				S3S4	1	85.7 ± 5.0	NS
N	<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4	10	43.6 ± 0.0	NS
N	<i>Dermatocarpon luridum</i>	Brookside Stippleback Lichen				S3S4	8	61.4 ± 2.0	NS

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N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	42	14.2 ± 0.0	NS
P	<i>Clethra alnifolia</i>	Coast Pepper-Bush	Endangered	Threatened	Vulnerable	S1	2	75.8 ± 0.0	NS
P	<i>Juglans cinerea</i>	Butternut	Endangered	Endangered		SNA	7	74.5 ± 0.0	NS
P	<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2	169	30.9 ± 0.0	NS
P	<i>Liatris spicata</i>	Dense Blazing Star	Threatened	Threatened		SNA	3	70.4 ± 0.0	NS
P	<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Branched Bartonia	Threatened	Threatened		SNA	1	20.7 ± 10.0	NS
P	<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S2	6	91.0 ± 0.0	NS
P	<i>Floerkea proserpinacoides</i>	False Mermaidweed	Not At Risk			S2	3	52.9 ± 7.0	NS
P	<i>Crocotanthemum canadense</i>	Long-branched Frostweed			Endangered	S1	2	91.8 ± 1.0	NS
P	<i>Cypripedium arietinum</i>	Ram's-Head Lady's-Slipper			Endangered	S1	28	98.0 ± 0.0	NS
P	<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S1	20	30.7 ± 7.0	NS
P	<i>Sanicula odorata</i>	Clustered Sanicle				S1	9	58.3 ± 0.0	NS
P	<i>Zizia aurea</i>	Golden Alexanders				S1	44	20.4 ± 1.0	NS
P	<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's Pussytoes				S1	4	74.7 ± 0.0	NS
P	<i>Bidens hyperborea</i>	Estuary Beggarticks				S1	1	96.4 ± 1.0	NS
P	<i>Ageratina altissima</i>	White Snakeroot				S1	2	96.3 ± 7.0	NS
P	<i>Cochlearia tridactylites</i>	Limestone Scurvy-grass				S1	8	45.7 ± 0.0	NS
P	<i>Lobelia spicata</i>	Pale-Spiked Lobelia				S1	1	75.8 ± 7.0	NS
P	<i>Hudsonia tomentosa</i>	Woolly Beach-heath				S1	5	72.0 ± 7.0	NS
P	<i>Desmodium canadense</i>	Canada Tick-trefoil				S1	20	52.5 ± 0.0	NS
P	<i>Hylodesmum glutinosum</i>	Large Tick-trefoil				S1	4	93.9 ± 0.0	NS
P	<i>Ribes americanum</i>	Wild Black Currant				S1	3	57.2 ± 5.0	NS
P	<i>Fraxinus pennsylvanica</i>	Red Ash				S1	7	43.0 ± 0.0	NS
P	<i>Polygala polygama</i>	Racemed Milkwort				S1	1	77.7 ± 1.0	NS
P	<i>Persicaria careyi</i>	Carey's Smartweed				S1	1	40.8 ± 3.0	NS
P	<i>Montia fontana</i>	Water Blinks				S1	1	79.2 ± 1.0	NS
P	<i>Lysimachia quadrifolia</i>	Whorled Yellow Loosestrife				S1	1	96.9 ± 0.0	NS
P	<i>Ranunculus pensylvanicus</i>	Pennsylvania Buttercup				S1	1	97.1 ± 0.0	NS
P	<i>Salix myrtilifolia</i>	Blueberry Willow				S1	1	33.6 ± 0.0	NS
P	<i>Salix serissima</i>	Autumn Willow				S1	2	33.5 ± 0.0	NS
P	<i>Agalinis purpurea</i> var. <i>parviflora</i>	Small-flowered Purple False Foxglove				S1	1	65.1 ± 0.0	NS
P	<i>Dirca palustris</i>	Eastern Leatherwood				S1	10	55.2 ± 7.0	NS
P	<i>Boehmeria cylindrica</i>	Small-spike False-nettle				S1	2	55.0 ± 0.0	NS
P	<i>Pilea pumila</i>	Dwarf Clearweed				S1	5	46.8 ± 0.0	NS
P	<i>Carex garberi</i>	Garber's Sedge				S1	4	50.8 ± 0.0	NS
P	<i>Carex gynocrates</i>	Northern Bog Sedge				S1	2	33.6 ± 0.0	NS
P	<i>Carex haydenii</i>	Hayden's Sedge				S1	2	58.5 ± 1.0	NS
P	<i>Carex pellita</i>	Woolly Sedge				S1	10	17.6 ± 10.0	NS
P	<i>Carex plantaginea</i>	Plantain-Leaved Sedge				S1	4	32.9 ± 0.0	NS
P	<i>Carex viridula</i> var. <i>saxillitoralis</i>	Greenish Sedge				S1	4	27.2 ± 0.0	NS
P	<i>Carex grisea</i>	Inflated Narrow-leaved Sedge				S1	6	92.6 ± 0.0	NS
P	<i>Cyperus lupulinus</i> ssp. <i>macilentus</i>	Hop Flatsedge				S1	3	74.5 ± 0.0	NS
P	<i>Scirpus atrovirens</i>	Dark-green Bulrush				S1	1	48.5 ± 0.0	NS
P	<i>Iris prismatica</i>	Slender Blue Flag				S1	2	63.5 ± 7.0	NS
P	<i>Juncus vaseyi</i>	Vasey Rush				S1	1	50.9 ± 0.0	NS
P	<i>Luzula spicata</i>	Spiked Woodrush				S1	1	92.7 ± 0.0	NS
P	<i>Allium tricoccum</i>	Wild Leek				S1	8	55.7 ± 0.0	NS
P	<i>Bromus latiglumis</i>	Broad-Glumed Brome				S1	28	30.8 ± 0.0	NS
P	<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S1	16	30.5 ± 0.0	NS
P	<i>Elymus hystrix</i>	Spreading Wild Rye				S1	12	47.3 ± 1.0	NS
P	<i>Potamogeton nodosus</i>	Long-leaved Pondweed				S1	1	59.7 ± 5.0	NS
P	<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S1	7	58.9 ± 1.0	NS
P	<i>Botrychium lunaria</i>	Common Moonwort				S1	8	62.7 ± 2.0	NS

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P	<i>Solidago hispida</i>	Hairy Goldenrod				S1?	2	25.7 ± 7.0	NS
P	<i>Suaeda rolandii</i>	Roland's Sea-Blite				S1?	1	99.7 ± 2.0	NS
P	<i>Carex pensylvanica</i>	Pennsylvania Sedge				S1?	2	47.2 ± 3.0	NS
P	<i>Dichanthelium lindheimeri</i>	Lindheimer's Panicgrass				S1?	1	63.0 ± 0.0	NS
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S1S2	10	47.0 ± 7.0	NS
P	<i>Proserpinaca intermedia</i>	Intermediate Mermaidweed				S1S2	1	42.8 ± 0.0	NS
P	<i>Anemone virginiana</i> var. <i>alba</i>	Virginia Anemone				S1S2	5	53.4 ± 5.0	NS
P	<i>Hepatica americana</i>	Round-lobed Hepatica				S1S2	30	31.0 ± 1.0	NS
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup				S1S2	22	60.0 ± 0.0	NS
P	<i>Parnassia parviflora</i>	Small-flowered Grass-of-Parnassus				S1S2	1	94.8 ± 1.0	NS
P	<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop				S1S2	4	37.6 ± 0.0	NS
P	<i>Carex livida</i>	Livid Sedge				S1S2	13	19.4 ± 0.0	NS
P	<i>Juncus greenii</i>	Greene's Rush				S1S2	4	65.7 ± 1.0	NS
P	<i>Platanthera huronensis</i>	Fragrant Green Orchid				S1S2	2	75.7 ± 10.0	NS
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S1S2	19	30.5 ± 0.0	NS
P	<i>Festuca subverticillata</i>	Nodding Fescue				S1S2	2	70.8 ± 1.0	NS
P	<i>Sparganium hyperboreum</i>	Northern Burreed				S1S2	1	90.9 ± 0.0	NS
P	<i>Carex vacillans</i>	Estuarine Sedge				S1S3	2	36.2 ± 0.0	NS
P	<i>Conioselinum chinense</i>	Chinese Hemlock-parsley				S2	2	58.6 ± 5.0	NS
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2	17	47.0 ± 0.0	NS
P	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane				S2	3	19.9 ± 5.0	NS
P	<i>Lactuca hirsuta</i>	Hairy Lettuce				S2	1	53.3 ± 7.0	NS
P	<i>Symphotrichum undulatum</i>	Wavy-leaved Aster				S2	3	80.0 ± 7.0	NS
P	<i>Symphotrichum ciliolatum</i>	Fringed Blue Aster				S2	19	25.3 ± 0.0	NS
P	<i>Impatiens pallida</i>	Pale Jewelweed				S2	2	49.1 ± 0.0	NS
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2	64	29.8 ± 0.0	NS
P	<i>Boecheria stricta</i>	Drummond's Rockcress				S2	6	51.5 ± 0.0	NS
P	<i>Cardamine parviflora</i>	Small-flowered Bittercress				S2	4	28.2 ± 0.0	NS
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort				S2	5	24.4 ± 0.0	NS
P	<i>Stellaria longifolia</i>	Long-leaved Starwort				S2	11	29.7 ± 0.0	NS
P	<i>Oxybasis rubra</i>	Red Goosefoot				S2	4	28.8 ± 2.0	NS
P	<i>Hudsonia ericoides</i>	Pinebarren Golden Heather				S2	102	75.3 ± 2.0	NS
P	<i>Hypericum majus</i>	Large St John's-wort				S2	4	75.3 ± 0.0	NS
P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2	9	29.6 ± 0.0	NS
P	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil				S2	3	31.1 ± 0.0	NS
P	<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2	4	55.8 ± 7.0	NS
P	<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb				S2	10	19.6 ± 0.0	NS
P	<i>Rumex triangulivalvis</i>	Triangular-valve Dock				S2	2	45.1 ± 0.0	NS
P	<i>Primula mistassinica</i>	Mistassini Primrose				S2	16	29.6 ± 1.0	NS
P	<i>Anemonastrum canadense</i>	Canada Anemone				S2	6	56.0 ± 0.0	NS
P	<i>Anemone quinquefolia</i>	Wood Anemone				S2	19	29.7 ± 0.0	NS
P	<i>Anemone virginiana</i>	Virginia Anemone				S2	36	53.4 ± 0.0	NS
P	<i>Anemone virginiana</i> var. <i>virginiana</i>	Virginia Anemone				S2	2	53.6 ± 7.0	NS
P	<i>Caltha palustris</i>	Yellow Marsh Marigold				S2	5	74.6 ± 0.0	NS
P	<i>Galium boreale</i>	Northern Bedstraw				S2	2	96.1 ± 5.0	NS
P	<i>Galium labradoricum</i>	Labrador Bedstraw				S2	79	19.2 ± 0.0	NS
P	<i>Salix pedicellaris</i>	Bog Willow				S2	54	19.2 ± 0.0	NS
P	<i>Salix sericea</i>	Silky Willow				S2	1	65.0 ± 1.0	NS
P	<i>Tiarella cordifolia</i>	Heart-leaved Foamflower				S2	222	29.4 ± 5.0	NS
P	<i>Viola nephrophylla</i>	Northern Bog Violet				S2	8	20.3 ± 1.0	NS
P	<i>Carex bebbii</i>	Bebb's Sedge				S2	9	52.6 ± 0.0	NS
P	<i>Carex castanea</i>	Chestnut Sedge				S2	26	26.8 ± 0.0	NS
P	<i>Carex comosa</i>	Bearded Sedge				S2	2	67.3 ± 0.0	NS
P	<i>Carex hystericina</i>	Porcupine Sedge				S2	1	83.3 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Carex tenera</i>	Tender Sedge				S2	7	59.0 ± 1.0	NS
P	<i>Carex tuckermanii</i>	Tuckerman's Sedge				S2	25	65.2 ± 0.0	NS
P	<i>Vallisneria americana</i>	Wild Celery				S2	3	41.3 ± 1.0	NS
P	<i>Allium schoenoprasum</i>	Wild Chives				S2	3	55.8 ± 10.0	NS
P	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives				S2	1	59.8 ± 7.0	NS
P	<i>Lilium canadense</i>	Canada Lily				S2	115	29.9 ± 0.0	NS
P	<i>Najas gracillima</i>	Thread-Like Naiad				S2	2	92.5 ± 0.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper				S2	34	76.8 ± 7.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper				S2	5	99.1 ± 0.0	NS
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S2	49	20.4 ± 1.0	NS
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S2	10	48.5 ± 1.0	NS
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	8	55.8 ± 7.0	NS
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2	12	65.1 ± 1.0	NS
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2	23	51.6 ± 0.0	NS
P	<i>Dichanthelium linearifolium</i>	Narrow-leaved Panic Grass				S2	4	51.5 ± 0.0	NS
P	<i>Piptatheropsis canadensis</i>	Canada Ricegrass				S2	8	40.8 ± 3.0	NS
P	<i>Potamogeton friesii</i>	Fries' Pondweed				S2	2	54.9 ± 5.0	NS
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed				S2	5	61.5 ± 1.0	NS
P	<i>Dryopteris fragrans</i>	Fragrant Wood Fern				S2	6	60.8 ± 7.0	NS
P	<i>Woodsia glabella</i>	Smooth Cliff Fern				S2	1	85.9 ± 1.0	NS
P	<i>Symphyotrichum boreale</i>	Boreal Aster				S2?	3	59.8 ± 7.0	NS
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S2?	5	69.1 ± 1.0	NS
P	<i>Epilobium coloratum</i>	Purple-veined Willowherb				S2?	8	69.6 ± 1.0	NS
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S2?	6	64.2 ± 7.0	NS
P	<i>Carex peckii</i>	White-Tinged Sedge				S2?	4	48.3 ± 0.0	NS
P	<i>Eleocharis ovata</i>	Ovate Spikerush				S2?	5	67.1 ± 0.0	NS
P	<i>Scirpus pedicellatus</i>	Stalked Bulrush				S2?	7	32.8 ± 0.0	NS
P	<i>Potamogeton pulcher</i>	Spotted Pondweed			Vulnerable	S2S3	3	19.7 ± 2.0	NS
P	<i>Hieracium robinsonii</i>	Robinson's Hawkweed				S2S3	3	54.9 ± 0.0	NS
P	<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S2S3	27	26.2 ± 0.0	NS
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch				S2S3	44	12.8 ± 0.0	NS
P	<i>Sagina nodosa</i>	Knotted Pearlwort				S2S3	29	26.9 ± 0.0	NS
P	<i>Sagina nodosa</i> ssp. <i>borealis</i>	Knotted Pearlwort				S2S3	10	25.9 ± 0.0	NS
P	<i>Ceratophyllum echinatum</i>	Prickly Hornwort				S2S3	3	31.7 ± 0.0	NS
P	<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3	3	73.9 ± 0.0	NS
P	<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed				S2S3	118	46.9 ± 0.0	NS
P	<i>Shepherdia canadensis</i>	Soapberry				S2S3	5	94.7 ± 7.0	NS
P	<i>Empetrum atropurpureum</i>	Purple Crowberry				S2S3	4	75.4 ± 7.0	NS
P	<i>Euphorbia polygonifolia</i>	Seaside Spurge				S2S3	1	79.7 ± 2.0	NS
P	<i>Halenia deflexa</i>	Spurred Gentian				S2S3	1	61.3 ± 1.0	NS
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3	3	19.3 ± 5.0	NS
P	<i>Polygonum aviculare</i> ssp. <i>buxiforme</i>	Box Knotweed				S2S3	3	59.8 ± 7.0	NS
P	<i>Polygonum oxyspermum</i>	Sharp-fruit Knotweed				S2S3	1	80.2 ± 0.0	NS
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3	5	62.0 ± 5.0	NS
P	<i>Galium aparine</i>	Common Bedstraw				S2S3	18	23.7 ± 0.0	NS
P	<i>Salix pellita</i>	Satiny Willow				S2S3	3	37.9 ± 0.0	NS
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	8	39.8 ± 7.0	NS
P	<i>Carex hirtifolia</i>	Pubescent Sedge				S2S3	55	29.5 ± 4.0	NS
P	<i>Carex houghtoniana</i>	Houghton's Sedge				S2S3	1	47.2 ± 1.0	NS
P	<i>Eleocharis flavescens</i> var. <i>olivacea</i>	Bright-green Spikerush				S2S3	8	34.3 ± 0.0	NS
P	<i>Eriophorum gracile</i>	Slender Cottongrass				S2S3	4	56.2 ± 10.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Coeloglossum viride</i>	Long-bracted Frog Orchid				S2S3	1	90.8 ± 0.0	NS
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper				S2S3	55	56.6 ± 0.0	NS
P	<i>Poa glauca</i>	Glaucous Blue Grass				S2S3	1	93.9 ± 1.0	NS
P	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3	4	39.3 ± 5.0	NS
P	<i>Botrychium simplex</i>	Least Moonwort				S2S3	2	46.3 ± 0.0	NS
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3	4	59.4 ± 7.0	NS
P	<i>Angelica atropurpurea</i>	Purple-stemmed Angelica				S3	2	34.0 ± 0.0	NS
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3	36	65.0 ± 0.0	NS
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed				S3	6	61.4 ± 0.0	NS
P	<i>Bidens beckii</i>	Water Beggarticks				S3	13	38.2 ± 10.0	NS
P	<i>Packera paupercula</i> var. <i>paupercula</i>	Balsam Groundsel				S3	1	99.8 ± 0.0	NS
P	<i>Packera paupercula</i>	Balsam Groundsel				S3	84	51.2 ± 0.0	NS
P	<i>Betula pumila</i>	Bog Birch				S3	3	33.5 ± 0.0	NS
P	<i>Campanula aparinoides</i>	Marsh Bellflower				S3	34	31.8 ± 0.0	NS
P	<i>Mononeuria groenlandica</i>	Greenland Stitchwort				S3	61	39.5 ± 7.0	NS
P	<i>Viburnum edule</i>	Squashberry				S3	2	64.0 ± 0.0	NS
P	<i>Empetrum eamesii</i>	Pink Crowberry				S3	85	75.4 ± 7.0	NS
P	<i>Vaccinium boreale</i>	Northern Blueberry				S3	3	32.4 ± 0.0	NS
P	<i>Vaccinium cespitosum</i>	dwarf bilberry				S3	56	32.2 ± 0.0	NS
P	<i>Vaccinium uliginosum</i>	Alpine Bilberry				S3	3	82.9 ± 1.0	NS
P	<i>Bartonia virginica</i>	Yellow Bartonia				S3	23	65.0 ± 7.0	NS
P	<i>Proserpinaca palustris</i>	Marsh Mermaidweed				S3	37	18.9 ± 0.0	NS
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed				S3	3	25.3 ± 1.0	NS
P	<i>Teucrium canadense</i>	Canada Germander				S3	17	34.6 ± 0.0	NS
P	<i>Epilobium strictum</i>	Downy Willowherb				S3	2	56.2 ± 0.0	NS
P	<i>Polygala sanguinea</i>	Blood Milkwort				S3	17	32.2 ± 5.0	NS
P	<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed				S3	15	22.6 ± 1.0	NS
P	<i>Fallopia scandens</i>	Climbing False Buckwheat				S3	32	29.7 ± 0.0	NS
P	<i>Plantago rugelii</i>	Rugel's Plantain				S3	8	33.0 ± 0.0	NS
P	<i>Samolus parviflorus</i>	Seaside Brookweed				S3	12	76.3 ± 5.0	NS
P	<i>Pyrola asarifolia</i>	Pink Pyrola				S3	8	39.3 ± 50.0	NS
P	<i>Pyrola minor</i>	Lesser Pyrola				S3	2	70.5 ± 0.0	NS
P	<i>Ranunculus gmelinii</i>	Gmelin's Water Buttercup				S3	65	19.4 ± 0.0	NS
P	<i>Endotropis alnifolia</i>	alder-leaved buckthorn				S3	162	18.9 ± 1.0	NS
P	<i>Agrimonia gryposepala</i>	Hooked Agrimony				S3	180	29.9 ± 0.0	NS
P	<i>Amelanchier spicata</i>	Running Serviceberry				S3	4	25.8 ± 0.0	NS
P	<i>Cephalanthus occidentalis</i>	Common Buttonbush				S3	6	77.6 ± 0.0	NS
P	<i>Geocaulon lividum</i>	Northern Comandra				S3	4	20.4 ± 5.0	NS
P	<i>Limosella australis</i>	Southern Mudwort				S3	6	33.0 ± 5.0	NS
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimperel				S3	18	54.9 ± 0.0	NS
P	<i>Laportea canadensis</i>	Canada Wood Nettle				S3	52	30.9 ± 0.0	NS
P	<i>Verbena hastata</i>	Blue Vervain				S3	158	40.9 ± 0.0	NS
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3	11	31.4 ± 0.0	NS
P	<i>Carex eburnea</i>	Bristle-leaved Sedge				S3	33	47.0 ± 0.0	NS
P	<i>Carex lupulina</i>	Hop Sedge				S3	36	29.7 ± 0.0	NS
P	<i>Carex rosea</i>	Rosy Sedge				S3	27	37.9 ± 0.0	NS
P	<i>Carex swanii</i>	Swan's Sedge				S3	3	70.6 ± 0.0	NS
P	<i>Carex tribuloides</i>	Blunt Broom Sedge				S3	11	32.9 ± 0.0	NS
P	<i>Carex wiegandii</i>	Wiegand's Sedge				S3	2	40.0 ± 2.0	NS
P	<i>Carex foenea</i>	Fernald's Hay Sedge				S3	12	39.4 ± 0.0	NS
P	<i>Eleocharis nitida</i>	Quill Spikerush				S3	1	82.4 ± 5.0	NS
P	<i>Schoenoplectus americanus</i>	Olney's Bulrush				S3	1	92.7 ± 0.0	NS
P	<i>Elodea canadensis</i>	Canada Waterweed				S3	9	55.3 ± 0.0	NS
P	<i>Juncus subcaudatus</i>	Woods-Rush				S3	20	19.1 ± 1.0	NS
P	<i>Juncus dudleyi</i>	Dudley's Rush				S3	41	18.8 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3	2	25.9 ± 0.0	NS
P	<i>Neotia bifolia</i>	Southern Twayblade				S3	102	11.1 ± 0.0	NS
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	128	26.1 ± 0.0	NS
P	<i>Platanthera hookeri</i>	Hooker's Orchid				S3	3	92.7 ± 0.0	NS
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3	21	58.9 ± 0.0	NS
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3	8	66.1 ± 0.0	NS
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail				S3	14	50.2 ± 0.0	NS
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass				S3	175	45.8 ± 0.0	NS
P	<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed				S3	10	65.5 ± 0.0	NS
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S3	10	48.3 ± 1.0	NS
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S3	13	10.6 ± 7.0	NS
P	<i>Sparganium natans</i>	Small Burreed				S3	11	30.7 ± 1.0	NS
P	<i>Asplenium viride</i>	Green Spleenwort				S3	1	95.6 ± 7.0	NS
P	<i>Equisetum pratense</i>	Meadow Horsetail				S3	11	47.2 ± 0.0	NS
P	<i>Equisetum variegatum</i>	Variegated Horsetail				S3	39	25.4 ± 0.0	NS
P	<i>Isoetes tuckermanii</i> ssp. <i>acadiensis</i>	Acadian Quillwort				S3	4	53.6 ± 14.0	NS
P	<i>Diphasiastrum sitchense</i>	Sitka Ground-cedar				S3	2	59.8 ± 1.0	NS
P	<i>Huperzia appressa</i>	Mountain Firmoss				S3	6	63.9 ± 5.0	NS
P	<i>Sceptridium dissectum</i>	Dissected Moonwort				S3	4	46.0 ± 1.0	NS
P	<i>Polypodium appalachianum</i>	Appalachian Polypody				S3	11	27.0 ± 0.0	NS
P	<i>Bidens vulgata</i>	Tall Beggarticks				S3?	6	47.7 ± 0.0	NS
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed				S3?	2	53.4 ± 0.0	NS
P	<i>Diphasiastrum x sabinifolium</i>	Savin-leaved Ground-cedar				S3?	7	60.6 ± 0.0	NS
P	<i>Atriplex glabriuscula</i> var. <i>franktonii</i>	Frankton's Saltbush				S3S4	1	90.7 ± 2.0	NS
P	<i>Suaeda calceoliformis</i>	Horned Sea-blite				S3S4	7	25.8 ± 0.0	NS
P	<i>Vaccinium corymbosum</i>	Highbush Blueberry				S3S4	2	75.7 ± 0.0	NS
P	<i>Myriophyllum sibiricum</i>	Siberian Water Milfoil				S3S4	6	31.4 ± 0.0	NS
P	<i>Nuphar microphylla</i>	Small Yellow Pond-lily				S3S4	3	60.1 ± 2.0	NS
P	<i>Sanguinaria canadensis</i>	Bloodroot				S3S4	189	30.0 ± 5.0	NS
P	<i>Polygonum fowleri</i>	Fowler's Knotweed				S3S4	5	25.9 ± 0.0	NS
P	<i>Rumex fueginus</i>	Tierra del Fuego Dock				S3S4	17	27.2 ± 2.0	NS
P	<i>Crataegus succulenta</i>	Fleshy Hawthorn				S3S4	1	75.5 ± 0.0	NS
P	<i>Fragaria vesca</i> ssp. <i>americana</i>	Woodland Strawberry				S3S4	62	19.6 ± 0.0	NS
P	<i>Salix petiolaris</i>	Meadow Willow				S3S4	18	29.3 ± 0.0	NS
P	<i>Agalinis neoscotica</i>	Nova Scotia Agalinis				S3S4	25	6.2 ± 0.0	NS
P	<i>Viola sagittata</i> var. <i>ovata</i>	Arrow-Leaved Violet				S3S4	8	42.4 ± 0.0	NS
P	<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage				S3S4	3	79.8 ± 0.0	NS
P	<i>Eriophorum russeolum</i>	Russet Cottongrass				S3S4	5	26.4 ± 0.0	NS
P	<i>Triglochin gaspensis</i>	Gasp ← Arrowgrass				S3S4	18	25.6 ± 0.0	NS
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4	3	55.3 ± 0.0	NS
P	<i>Luzula parviflora</i>	Small-flowered Woodrush				S3S4	4	43.6 ± 0.0	NS
P	<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4	4	46.4 ± 0.0	NS
P	<i>Panicum philadelphicum</i>	Philadelphia Panicgrass				S3S4	3	93.5 ± 0.0	NS
P	<i>Trisetum spicatum</i>	Narrow False Oats				S3S4	10	51.3 ± 0.0	NS
P	<i>Cystopteris bulbifera</i>	Bulblet Bladder Fern				S3S4	146	26.8 ± 0.0	NS
P	<i>Equisetum hyemale</i> ssp. <i>affine</i>	Common Scouring-rush				S3S4	60	44.0 ± 0.0	NS
P	<i>Equisetum scirpoides</i>	Dwarf Scouring-Rush				S3S4	57	47.7 ± 0.0	NS
P	<i>Diphasiastrum complanatum</i>	Northern Ground-cedar				S3S4	6	27.8 ± 0.0	NS
P	<i>Schizaea pusilla</i>	Little Curlygrass Fern				S3S4	7	49.7 ± 1.0	NS
P	<i>Viola canadensis</i>	Canada Violet				SH	1	52.9 ± 7.0	NS
P	<i>Calamagrostis cinnoides</i>	Small Reedgrass				SH	1	81.6 ± 6.0	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.

# recs	CITATION
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1516	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
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660	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database [as of 2018-03]. Mersey Tobeatic Research Institute.
578	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2014. Atlantic Canada Conservation Data Centre Fieldwork 2014. Atlantic Canada Conservation Data Centre, # recs.
408	Blaney, C.S.; Mazerolle, D.M. 2010. Fieldwork 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 15508 recs.
388	Blaney, C.S.; Mazerolle, D.M. 2012. Fieldwork 2012. Atlantic Canada Conservation Data Centre, 13,278 recs.
374	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2015. Atlantic Canada Conservation Data Centre Fieldwork 2015. Atlantic Canada Conservation Data Centre, # recs.
338	Benjamin, L.K. (compiler). 2012. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 4965 recs.
335	Hicks, Andrew. 2009. Coastal Waterfowl Surveys Database, 2000-08. Canadian Wildlife Service, Sackville, 46488 recs (11149 non-zero).
315	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
313	Amirault, D.L. & Stewart, J. 2007. Piping Plover Database 1894-2006. Canadian Wildlife Service, Sackville, 3344 recs, 1228 new.
311	Neily, T.H. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
265	Bryson, I.C. 2020. Nova Scotia flora and lichen observations 2020. Nova Scotia Environment, 139 recs.
255	Klymko, J. 2018. Maritimes Butterfly Atlas database. Atlantic Canada Conservation Data Centre.
241	Wilhelm, S.I. et al. 2011. Colonial Waterbird Database. Canadian Wildlife Service, Sackville, 2698 sites, 9718 recs (8192 obs).
227	Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobeatic Research Institute.
223	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
222	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.
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194	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.
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170	Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
161	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.
155	Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia. , 181 records.
143	Belliveau, A.G. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
132	Toms, B. 2018. Bat Species data from www.batconservation.ca for Nova Scotia. Mersey Tobeatic Research Institute, 547 Records.
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117	e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
111	Layberry, R.A. & Hall, P.W., LaFontaine, J.D. 1998. The Butterflies of Canada. University of Toronto Press. 280 pp+plates.
103	Cameron, R.P. 2009. Cyanolichen database. Nova Scotia Environment & Labour, 1724 recs.
96	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
96	Klymko, J.J.D. 2012. Insect fieldwork & submissions, 2011. Atlantic Canada Conservation Data Centre. Sackville NB, 760 recs.
93	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobeatic Research Institute.
92	Blaney, C.S. 2000. Fieldwork 2000. Atlantic Canada Conservation Data Centre. Sackville NB, 1265 recs.
91	Munro, Marian K. Tracked lichen specimens, Nova Scotia Provincial Museum of Natural History Herbarium. Atlantic Canada Conservation Data Centre. 2019.
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87	McNeil, J.A. 2018. Wood Turtle records, 2018. Mersey Tobeatic Research Institute, 68 recs.
78	Nussey, Pat & NCC staff. 2019. AEI tracked species records, 2016-2019. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 333.
76	iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
75	Bryson, I. 2020. Nova Scotia and Newfoundland rare species observations, 2018-2020. Nova Scotia Environment.
65	Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
64	Mazerolle, D.M. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 13515 recs.
54	Manthorne, A. 2014. MaritimesSwiftwatch Project database 2013-2014. Bird Studies Canada, Sackville NB, 326 recs.
54	Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.
53	Chapman, C.J. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 11171 recs.
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51	Pulsifer, M.D. 2002. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 369 recs.
49	Neily, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobeatic Research Institute, 1691 records.
48	Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust, 95 recs.
45	Bell, G. 2018. Moose, bat and bird records from Goldboro LNG Project, NS, Environmental Assessment. Amec Foster Wheeler.
44	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
44	LaPaix, R.W.; Crowell, M.J.; MacDonald, M.; Neily, T.D.; Quinn, G. 2017. Stantec Nova Scotia rare plant records, 2012-2016. Stantec Consulting.
43	Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
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41	Amirault, D.L. & McKnight, J. 2003. Piping Plover Database 1991-2003. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
41	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2013. Atlantic Canada Conservation Data Centre Fieldwork 2013. Atlantic Canada Conservation Data Centre, 9000+ recs.
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38	Brazner, J. 2016. Nova Scotia Forested Wetland Bird Surveys. Nova Scotia Department of Lands and Forestry.
36	Ferguson, D.C. 1954. The Lepidoptera of Nova Scotia. Part I, macrolepidoptera. Proceedings of the Nova Scotian Institute of Science, 23(3), 161-375.
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33	Canadian Wildlife Service, Dartmouth. 2010. Piping Plover censuses 2007-09, 304 recs.
33	Neily, T.H. 2010. Erioderma pedicellatum records 2005-09. Mersey Tobiatic Research Institute, 67 recs.
31	Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
30	Archibald, D.R. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
30	Belland, R.J. Maritimes moss records from various herbarium databases. 2014.
30	Popma, T.M. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 113 recs.
29	Hall, R.A. 2001. S. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
28	Pepper, Chris. 2012. Observations of breeding Canada Warbler's along the Eastern Shore, NS. Pers. comm. to S. Blaney, Jan. 20, 28 recs.
27	MacDonald, E.C. 2018. CWS Piping Plover Census, 2010-2017. Canadian Wildlife Service, 672 recs.
24	Belliveau, A. 2013. Rare species records from Nova Scotia. Mersey Tobeatic Research Institute, 296 records. 296 recs.
24	Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
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23	Cameron, R.P. 2013. 2013 rare species field data. Nova Scotia Department of Environment, 71 recs.
23	Mazerolle, D.M. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
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22	Belliveau, A.G. 2014. Plant Records from Southern and Central Nova Scotia. Atlantic Canada Conservation Data Centre, 919 recs.
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22	Churchill, J.L. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
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22	Neily, T.H. 2019. Tom Neily NS Bryophyte records (2009-2013). T.H. Neily, Atlantic Canada Conservation Data Centre, 1029 specimen records.
20	Chapman, C.N. (Cody). 2020. Nova Scotia Black Ash (<i>Fraxinus nigra</i>) field observations by Confederacy of Mainland Mi'kmaq. Forestry Program, Confederacy of Mainland Mi'kmaq.
20	MacDonald, E.C. 2018. Piping Plover nest records from 2010-2017. Canadian Wildlife Service.
20	Ogden, K. Nova Scotia Museum butterfly specimen database. Nova Scotia Museum. 2017.
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18	Neily, T.H. 2012. 2012 Erioderma pedicellatum records in Nova Scotia.
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17	Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
17	Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
17	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
17	Walker, J. 2017. Bird inventories at French River, NS, and Memramcook, NB, for Nature Conservancy of Canada. Pers. comm. to AC CDC.
15	Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of <i>C. insculpta</i> sightings. Acadia University, Wolfville NS, 88 recs.
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15	White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
14	Chapman, C.J. 2019. Atlantic Canada Conservation Data Centre 2019 botanical fieldwork. Atlantic Canada Conservation Data Centre, 11729 recs.
14	e-Butterfly. 2019. Export of Maritimes records and photos. McFarland, K. (ed.) e-butterfly.org.
14	NS DNR. 2017. Black Ash records from NS DNR Permanent Sample Plots (PSPs), 1965-2016. NS Dept of Natural Resources.
14	Robinson, S.L. 2015. 2014 field data.
13	Blaney, C.S.; Mazerolle, D.M. 2008. Fieldwork 2008. Atlantic Canada Conservation Data Centre. Sackville NB, 13343 recs.
13	Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
13	Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 recs.
13	e-Butterfly. 2018. Selected Maritimes butterfly records from 2016 and 2017. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
13	Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.

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13	Nova Scotia Nature Trust. 2014. Ladyslipper records from Saint Croix Nova Scotia, JLC Ed. Nova Scotia Nature Trust.
12	McNeil, J.A. 2016. Blandings Turtle (<i>Emydoidea blandingii</i>), Eastern Ribbonsnake (<i>Thamnophis sauritus</i>), Wood Turtle (<i>Glyptemys insculpta</i>), and Snapping Turtle (<i>Chelydra serpentina</i>) sightings, 2016. Mersey Tobeatic Research Institute, 774 records.
12	Neily, T.H. 2013. Email communication to Sean Blaney regarding <i>Listera australis</i> observations made from 2007 to 2011 in Nova Scotia. , 50.
12	Phinney, Lori; Toms, Brad; et. al. 2016. Bank Swallows (<i>Riparia riparia</i>) in Nova Scotia: inventory and assessment of colonies. Merset Tobeatic Research Institute, 25 recs.
11	Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
11	Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
11	Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
10	Belliveau, A.G. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 10695 recs.
10	Blaney, C.S.; Spicer, C.D.; Rothfels, C. 2004. Fieldwork 2004. Atlantic Canada Conservation Data Centre. Sackville NB, 1343 recs.
10	Richardson, D., Anderson, F., Cameron, R., McMullin, T., Clayden, S. 2014. Field Work Report on Black Foam Lichen (<i>Anzia colpodes</i>). COSEWIC.
9	Cameron, R.P. 2005. <i>Erioderma pedicellatum</i> unpublished data. NS Dept of Environment, 9 recs.
9	Cameron, R.P. 2006. <i>Erioderma pedicellatum</i> 2006 field data. NS Dept of Environment, 9 recs.
9	Hill, N.M. 1994. Status report on the Long's bulrush <i>Scirpus longii</i> in Canada. Committee on the Status of Endangered Wildlife in Canada, 7 recs.
9	Holder, M.L.; Kingsley, A.L. 2000. Kingsley and Holder observations from 2000 field work.
9	Manthorne, A. 2019. Incidental aerial insectivore observations. Birds Canada.
8	Klymko, J.J.D.; Robinson, S.L. 2014. 2013 field data. Atlantic Canada Conservation Data Centre.
8	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.
7	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
7	Blaney, C.S. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 1042 recs.
7	Cameron, B. 2006. <i>Hepatica americana</i> 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	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobeatic Research Institute, 668 recs.
7	Taylor, B.R., and Tam, J.C. 2012. Local distribution of the rare plant <i>Triosteum aurantiacum</i> in northeastern Nova Scotia, Canada. <i>Rhodora</i> , 114(960): 366-382.
6	Goltz, J.P. & Bishop, G. 2005. Confidential supplement to Status Report on Prototype Quillwort (<i>Isoetes prototypus</i>). Committee on the Status of Endangered Wildlife in Canada, 111 recs.
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	Neily, T.H. & Anderson, F. 2011. Lichen observations from NRC site at Sandy Cove. , 97.
6	Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro. 2003.
6	Richardson, D., Anderson, F., Cameron, R., Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (<i>Pannaria lurida</i>). COSEWIC.
6	White, S. 2019. Notable species sightings, 2018. East Coast Aquatics.
6	Whittam, R.M. 1999. Status Report on the Roseate Tern (update) in Canada. Committee on the Status of Endangered Wildlife in Canada, 36 recs.
5	Basquill, S.P. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre, Sackville NB, 69 recs.
5	Blaney, C.S.; Spicer, C.D.; Mazerolle, D.M. 2005. Fieldwork 2005. Atlantic Canada Conservation Data Centre. Sackville NB, 2333 recs.
5	Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centre, 30 recs.
5	Cameron, E. 2008. Canadian Gypsum Co. survey 2007-08. Conestoga-Rovers & Assoc., 623 recs.
5	Cameron, R.P. 2012. Additional rare plant records, 2009. , 7 recs.
5	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.
5	Towell, C. 2014. 2014 Northern Goshawk and Common Nighthawk email reports, NS. NS Department of Natural Resources.
5	Whittam, R.M. 1997. Status Report on the Roseate Tern (<i>Sterna dougallii</i>) in Canada. Committee on the Status of Endangered Wildlife in Canada, 5 recs.
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4	Clayden, S.R. 1998. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, 19759 recs.
4	Clayden, S.R. 2005. Confidential supplement to Status Report on Ghost Antler Lichen (<i>Pseudevernia cladonia</i>). Committee on the Status of Endangered Wildlife in Canada, 27 recs.
4	Frittaion, C. 2012. NSNT 2012 Field Observations. Nova Scotia Nature Trust, Pers comm. to S. Blaney Feb. 7, 34 recs.
4	Klymko, J. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
4	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database Update. Mersey Tobeatic Research Institute, 14 recs.
4	O'Neil, S. 1998. Atlantic Salmon: Eastern Shore Nova Scotia SFA 20. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-10. 4 recs.
4	Phinney, Lori. 2020. Pre- and post White-nose Syndrome bat acoustic monitoring, NS. Mersey Tobeatic Research Institute, 1279 recs.
3	Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
3	Bateman, M.C. 2001. Coastal Waterfowl Surveys Database, 1965-2001. Canadian Wildlife Service, Sackville, 667 recs.
3	Blaney, C.S. Miscellaneous specimens received by ACCDC (botany). Various persons. 2001-08.
3	Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
3	Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 recs.
3	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.
3	Hill, N. and D. Patriquin. 2013. 2013 rare plant observations in Williams Lake Backlands area. Fern Hill Institute of Plant Conservation, Berwick, Nova Scotia, 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	Neily, T.H. Tom Neily NS Sphagnum records (2009-2014). T.H. Neily, Atlantic Canada Conservation Data Centre. 2019.
3	Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J.; ONHIC, 487 recs.
3	Williams, M. Cape Breton University Digital Herbarium. Cape Breton University Digital Herbarium. 2013.
2	Bagnell, B.A. 2001. New Brunswick Bryophyte Occurrences. B&B Botanical, Sussex, 478 recs.
2	Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.

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2	Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources, 143 recs.
2	Blaney, C.S. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 6719 recs.
2	Cameron, B. 2005. <i>C. palmicola</i> , <i>E. pedicellatum</i> records from Sixth Lake. Pers. comm. to C.S. Blaney. 3 recs, 3 recs.
2	COSEWIC (Committee on the Status of Wildlife in Canada). 2013. COSEWIC Assessment and Status Report on the Eastern Waterfowl Peltigera hydrothyria in Canada. COSEWIC, 46 pp.
2	Doucet, D.A. 2007. Lepidopteran Records, 1988-2006. Doucet, 700 recs.
2	Hill, N. 2003. <i>Floerkea proserpinacoides</i> at Heatherdale, Antigonish Co. 2002. , Pers. comm. to C.S. Blaney. 2 recs.
2	Klymko, J.J.D. 2018. 2017 field data. Atlantic Canada Conservation Data Centre.
2	LaPaix, R.; Parker, M. 2013. email to Sean Blaney regarding <i>Listera australis</i> observations near Kearney Lake. East Coast Aquatics, 2.
2	Macaulay, M. Notes on newly discovered <i>Hepatica nobilis</i> var. <i>obtusata</i> population in Cumberland Co. NS. Pers. comm. to S. Blaney, 1 rec.
2	McNeil, J.A. 2019. Snapping Turtle records, 2019. Mersey Tobeatic Research Institute.
2	Munro, M. 2003. <i>Caulophyllum thalictroides</i> & <i>Carex hirtifolia</i> at Herbert River, Brooklyn, NS. , Pers. comm. to C.S. Blaney. 2 recs.
2	Neily, T.H. 2016. Email communication (May 6, 2016) to Sean Blaney regarding <i>Fissidens exilis</i> observations made in 2016 in Nova Scotia. Pers. Comm., 3 recs.
2	Neily, T.H.; Smith, C.; Whitman, E. 2011. NCC Logging Lake (Halifax Co. NS) properties baseline survey data. Nature Conservancy of Canada, 2 recs.
2	Plissner, J.H. & Haig, S.M. 1997. 1996 International piping plover census. US Geological Survey, Corvallis OR, 231 pp.
2	Robinson, S.L. 2011. 2011 ND dune survey field data. Atlantic Canada Conservation Data Centre, 2715 recs.
2	Sabine, D.L. 2013. Dwaine Sabine butterfly records, 2009 and earlier.
2	Sollows, M.C., 2008. NBM Science Collections databases: mammals. New Brunswick Museum, Saint John NB, download Jan. 2008, 4983 recs.
2	Standley, L.A. 2002. <i>Carex haydenii</i> in Nova Scotia. , Pers. comm. to C.S. Blaney. 4 recs.
2	Whittam, R.M. et al. 1998. Country Island Tern Restoration Project. Canadian Wildlife Service, Sackville, 2 recs.
1	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.
1	Basquill, S.P. 2011. Field observations & specimen collections, 2010. Nova Scotia Department of Natural Resources, Pers. comm. , 8 Recs.
1	Belliveau, A.G. E.C. Smith Herbarium Specimen Database 2019. E.C. Smith Herbarium, Acadia University. 2019.
1	Benedict, B. Connell Herbarium Specimens (Data) . University New Brunswick, Fredericton. 2003.
1	Benedict, B. Connell Herbarium Specimens, Digital photos. University New Brunswick, Fredericton. 2005.
1	Blaney, C.S. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
1	Blaney, C.S. 2019. Sean Blaney 2019 field data. Atlantic Canada Conservation Data Centre, 4407 records.
1	Boyne, A.W. & Grecian, V.D. 1999. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 23 recs.
1	Brach, A.R. 2019. Correspondence to Sean Blaney regarding <i>Calamagrostis cinnoides</i> specimen from Halifax NS. pers. comm., Harvard University Herbaria, 1 record.
1	Bridgehouse, Derek Email to John Klymko detailing records of butterflies collected by Derek Bridgehouse in July 2017. Bridgehouse, Derek. 2017.
1	Bridgehouse, Derek. 2018. Record of <i>Callophrys henrici</i> from Nova Scotia, emailed to J. Klymko 31 May 2018. Pers. comm.
1	Bruce, J. 2014. 2014 Wood Turtle email report, Nine Mile River, NS. NS Department of Natural Resources.
1	Butterflies and Moths of North America. 2016. <i>Satyrion liparops</i> record from Nova Scotia gleaned from BAMONA. Lotts, Kelly (ed.) BAMONA.
1	Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
1	Clayden, S.R. 2006. <i>Pseudevernia cladonia</i> records. NB Museum. Pers. comm. to S. Blaney, Dec, 4 recs.
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