



Appendix E – ACCDC, MBBA

Data Report 8747: Woodville, NS

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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:

Filename

WoodvilleNS_8747ob.xls

WoodvilleNS_8747ob100km.xls

WoodvilleNS_8747ff_py.xls

Contents

Rare or legally-protected Flora and Fauna in your study area

A list of Rare and legally protected Flora and Fauna within 100 km of your study area

Rare Freshwater Fish in your study area (DFO database)

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
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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.

2.0 RARE AND ENDANGERED SPECIES

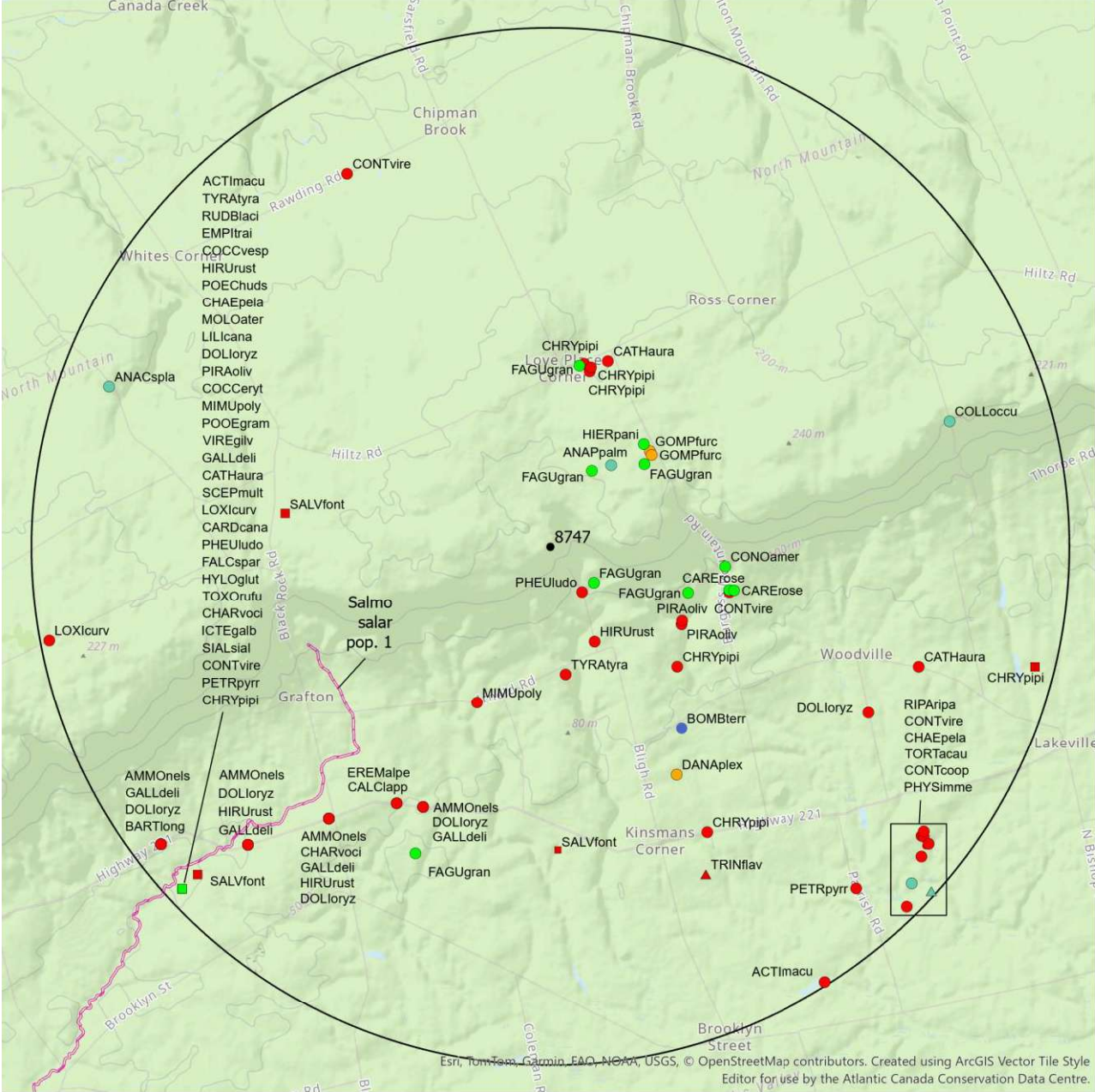
2.1 FLORA

The study area contains 14 records of 8 vascular and 5 records of 5 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 121 records of 35 vertebrate and 7 records of 3 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.



Resolution

- 1.0 = Within 10s of metres
- 1.7 = Within 50s of metres
- 2.0 = Within 100s of metres
- △ 2.7 = Within 500s of metres
- △ 3.0 = Within kilometres
- 3.7 = Within 5s of kilometres
- 4.0 = Within 10s of kilometres
- 4.7 = Within 50s of kilometres

Higher taxon

- Vertebrate fauna
- Invertebrate fauna
- Vascular flora
- Nonvascular flora

3.0 SPECIAL AREAS

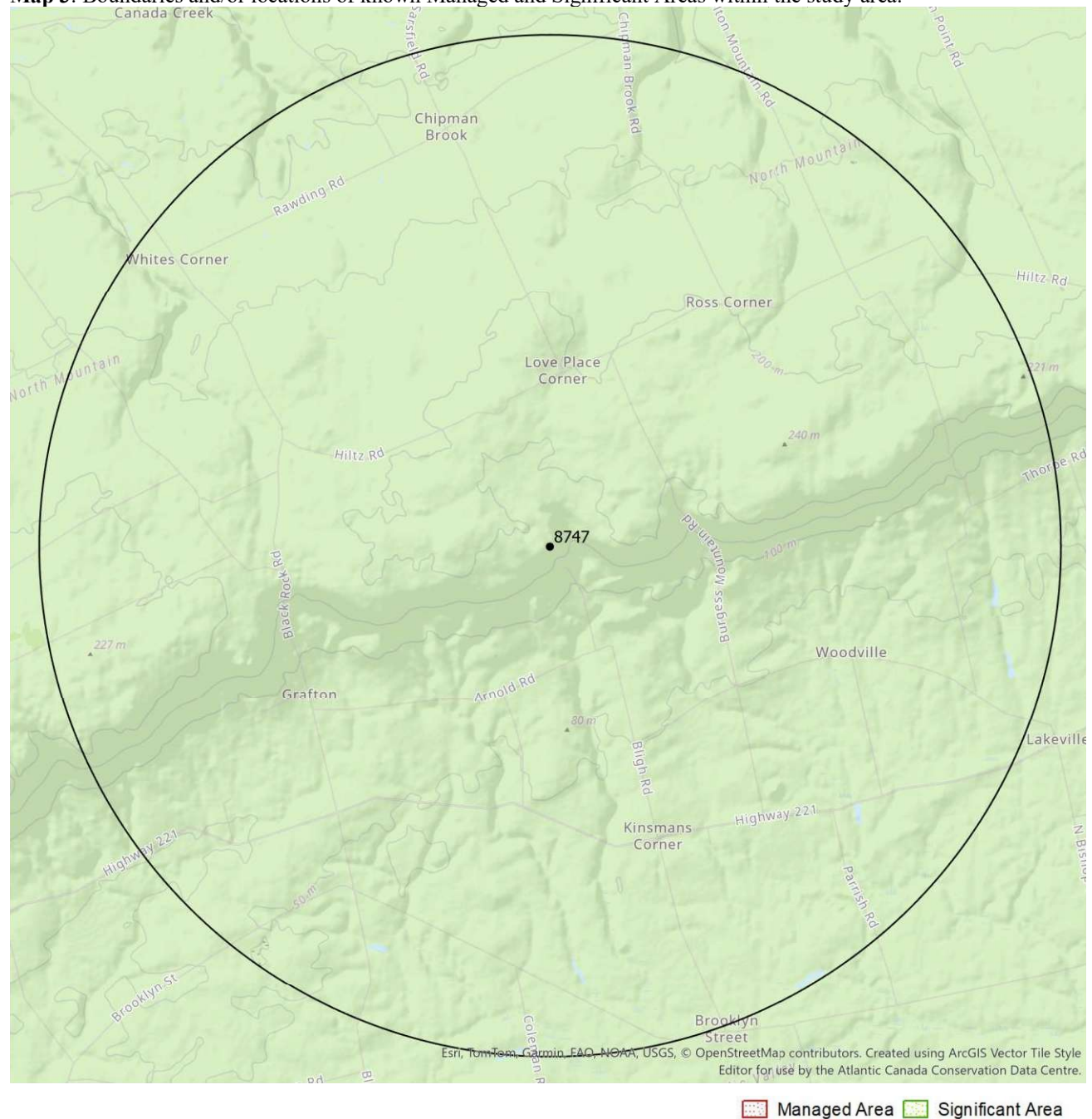
3.1 MANAGED AREAS

The GIS scan identified no managed areas in the vicinity of the study area (Map 3 and attached file: *ma*.xls).

3.2 SIGNIFICANT AREAS

Significant Areas are sites with a conservation designation and management that qualifies them for listing in the Canadian Protected and Conserved Areas Database (CPCAD; <https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html>). The absence of a “Significant Area” within a site or region does not indicate an absence of ecologically significant properties. 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>Physcomitrium immersum</i>	a Moss				S1?	1	4.8 $\pm$ 0.2
N	<i>Tortula acaulon</i>	Cuspidate Earth Moss				S1S2	1	5.0 $\pm$ 2.21
N	<i>Anacamptodon splachnoides</i>	a Moss				S2	1	4.5 $\pm$ 0.2
N	<i>Rostania occultata</i>	Crusted Tarpaper Lichen				S3	1	4.0 $\pm$ 0.2
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	1	1.0 $\pm$ 0.2
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S2	1	4.8 $\pm$ 7.07
P	<i>Hylocomium glutinosum</i>	Large Tick-trefoil				S2	1	4.8 $\pm$ 7.07
P	<i>Conopholis americana</i>	American Cancer-root				S2	1	1.7 $\pm$ 0.2
P	<i>Lilium canadense</i>	Canada Lily				S2	1	4.8 $\pm$ 7.07
P	<i>Carex rosea</i>	Rosy Sedge				S3	2	1.8 $\pm$ 0.2
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed				S3S4	1	1.3 $\pm$ 0.2
P	<i>Fagus grandifolia</i>	American Beech				S3S4	6	0.5 $\pm$ 0.2
P	<i>Sceptridium multifidum</i>	Leathery Moonwort				S3S4	1	4.8 $\pm$ 10.0

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	7	4.5 $\pm$ 0.15
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	2	4.6 $\pm$ 0.01
A	<i>Tringa flavipes</i>	Lesser Yellowlegs	Threatened			S3M	1	3.5 $\pm$ 2.81
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	5	1.0 $\pm$ 0.15
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1	4.8 $\pm$ 7.07
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1	4.7 $\pm$ 0.15
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	26	2.8 $\pm$ 0.25
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	1	4.8 $\pm$ 7.07
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	6	1.8 $\pm$ 0.2
A	<i>Chrysomys picta picta</i>	Eastern Painted Turtle	Special Concern	Special Concern	Vulnerable	S4	7	1.7 $\pm$ 0.2
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk	Special Concern		S3B	2	4.8 $\pm$ 7.07
A	<i>Ammodramus nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	4	2.8 $\pm$ 0.25
A	<i>Bartramia longicauda</i>	Upland Sandpiper				S1B	1	4.7 $\pm$ 0.25
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	3	1.7 $\pm$ 0.15
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	1	4.8 $\pm$ 7.07
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B,SUM	1	4.8 $\pm$ 7.07
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S1S2B,SUM	1	4.8 $\pm$ 7.07
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	1	4.8 $\pm$ 7.07
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	2	4.8 $\pm$ 7.07
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B,SUM	3	1.5 $\pm$ 0.2
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	3	4.4 $\pm$ 0.15
A	<i>Cathartes aura</i>	Turkey Vulture				S2S3B,S4S5M	3	1.9 $\pm$ 0.2
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B,SUM	3	4.8 $\pm$ 7.07
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	1	4.8 $\pm$ 7.07
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	3	2.6 $\pm$ 7.81
A	<i>Calcarius lapponicus</i>	Lapland Longspur				S3?N,SUM	1	2.9 $\pm$ 0.2
A	<i>Charadrius vociferus</i>	Killdeer				S3B	3	3.4 $\pm$ 0.25
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	1	4.8 $\pm$ 7.07

Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A <i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	5	1.2 ± 0.2
A <i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	4	0.5 ± 0.15
A <i>Falco sparverius</i>	American Kestrel				S3B, S4S5M	2	4.8 ± 7.07
A <i>Gallinago delicata</i>	Wilson's Snipe				S3B, S5M	10	2.8 ± 0.25
A <i>Loxia curvirostra</i>	Red Crossbill				S3S4	3	4.8 ± 7.07
A <i>Actitis macularius</i>	Spotted Sandpiper				S3S4B, S5M	2	4.8 ± 7.07
A <i>Eremophila alpestris</i>	Horned Lark				S3B, S4S5N, S5M	1	2.9 ± 0.2
I <i>Danaus plexippus</i>	Monarch	Endangered	Endangered	Endangered	S27B, S3M	1	2.5 ± 0.2
I <i>Bombus terricola</i>	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	4	2.2 ± 100.0
I <i>Gomphaeschna furcillata</i>	Harlequin Darter				S3S4	2	1.3 ± 0.2

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>Alces alces americana</i>	Moose – Mainland population		Endangered	No
<i>Fraxinus nigra</i>	Black Ash		Threatened	No
<i>Emydoidea blandingii</i>	Blanding's Turtle - Nova Scotia pop.	Endangered	Endangered	No
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	No
<i>Falco peregrinus</i> pop. 1	Peregrine Falcon - anatum/tundrius pop.		Vulnerable	No
<i>Bat Hibernaculum</i> or bat species occurrence		[Endangered] ¹	[Endangered] ¹	YES
<i>Snake hibernaculum</i>		[Threatened] ²	[Threatened] ²	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.
2 *Thamnophis sauritus* (Eastern Ribbonsnake) is Threatened under the Federal Species at Risk Act (SARA) and the Nova Scotia Endangered Species Act. Occurrences between October 15 – April 15 are considered location sensitive.

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
63	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407, 838 recs.
36	Pardieck, K.L., Ziolkowski Jr., D.J., Lumerding, M., Aponite, 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
15	iNaturalist.ca. 2023. iNaturalist Data Export December 2022. iNaturalist.org; iNaturalist.ca, Web site: 128634 recs.
12	iNaturalist.ca. 2024. iNaturalist Data Export December 2023. iNaturalist.org; iNaturalist.ca.
9	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
4	Canadian National Collection of Insects Arachnids, and Nematodes Bombus specimen database export. Government of Canada. 2022.
2	McLean, K. 2020. Species occurrence records from Clean Annapolis River Project fieldwork in 2020. Clean Annapolis River Project, 206 records.
2	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.
1	Amiro, P.G. 1998. Atlantic Salmon Inner Bay of Fundy SFA 22 & part of 23. DFO Sci. SSR D3-12.
1	iNaturalist.ca. 2024. iNaturalist Data Export December 2023 botany records. iNaturalist.org; iNaturalist.ca.
1	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
1	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.
1	Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 58526 records of 148 vertebrate and 3076 records of 81 invertebrate fauna; 19508 records of 320 vascular and 5615 records of 258 nonvascular flora (attached: *obl100km.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>Coregonus huntsmani</i>	Atlantic Whitefish	Endangered	Endangered	Endangered	S1	166	17.0 $\pm$ 1.0	NS
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	710	1.8 $\pm$ 0.1	NS
A	<i>Myotis septentrionalis</i>	Northern Myotis	Endangered	Endangered	Endangered	S1	91	17.5 $\pm$ 0.1	NS
A	<i>Perimyotis subflavus</i>	Tricolored Bat	Endangered	Endangered	Endangered	S1	178	17.6 $\pm$ 0.1	NS
A	<i>Salmo salar pop. 1</i>	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered		S1	368	19.9 $\pm$ 1.0	NS
A	<i>Salmo salar pop. 6</i>	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	29	43.2 $\pm$ 0.01	NS
A	<i>Eubalaena glacialis</i>	North Atlantic Right Whale	Endangered	Endangered		S1	1	96.9 $\pm$ 50.0	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	39	32.3 $\pm$ 0.5	NS
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	50	15.2 $\pm$ 0.5	NS
A	<i>Dermochelys coriacea pop. 2</i>	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	3	74.1 $\pm$ 5.0	NS
A	<i>Morone saxatilis pop. 2</i>	Striped Bass - Bay of Fundy population	Endangered			S2S3B, S2S3N	173	19.9 $\pm$ 1.0	NS
A	<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Threatened	Endangered	S1B	8	29.9 $\pm$ 7.07	NS
A	<i>Asio flammeus</i>	Short-eared Owl	Threatened	Special Concern		S1B	82	26.4 $\pm$ 0.2	NS
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	1609	10.9 $\pm$ 0.05	NS
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	2208	10.1 $\pm$ 1.0	NS
A	<i>Thamnophis saurita pop. 3</i>	Eastern Ribbonsnake - Atlantic population	Threatened	Threatened	Threatened	S2S3	2364	50.8 $\pm$ 0.01	NS
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B, S1M	1995	13.8 $\pm$ 7.07	NS
A	<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S2S3M	167	25.1 $\pm$ 0.5	NS
A	<i>Tringa flavipes</i>	Lesser Yellowlegs	Threatened			S3M	1297	15.1 $\pm$ 0.2	NS
A	<i>Anguilla rostrata</i>	American Eel	Threatened			S3N	1283	11.4 $\pm$ 0.01	NS
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened		SHB	23	36.6 $\pm$ 7.07	NS
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB	90	11.1 $\pm$ 0.01	NS
A	<i>Salmo salar pop. 12</i>	Atlantic Salmon - Gaspe - Southern Gulf of St. Lawrence population	Special Concern			S1	4	78.1 $\pm$ 0.2	NS
A	<i>Anthus vociferus</i>	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	13	15.2 $\pm$ 0.15	NS
A	<i>Passerculus sandwichensis princeps</i>	Ipswich Sparrow	Special Concern	Special Concern		S1B	1	30.1 $\pm$ 0.2	NS
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	374	14.2 $\pm$ 0.15	NS
A	<i>Histrionicus histrionicus pop. 1</i>	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2N	51	20.2 $\pm$ 1.5	NS
A	<i>Balaenoptera physalus pop. 1</i>	Fin Whale - Atlantic population	Special Concern	Special Concern		S2S3	3	55.5 $\pm$ 1.0	NB
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	21	24.5 $\pm$ 0.05	NS
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	933	10.5 $\pm$ 0.2	NS
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	1848	1.0 $\pm$ 0.15	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1369	12.1 ± 0.15	NS
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	915	11.3 ± 0.15	NS
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1523	10.5 ± 0.2	NS
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	2604	10.5 ± 0.25	NS
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	1190	10.9 ± 2.5	NS
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1960	1.8 ± 0.2	NS
A	<i>Phocoena phocoena pop. 1</i>	Harbour Porpoise - Northwest Atlantic Population	Special Concern			S4	32	12.2 ± 0.2	NS
A	<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern	Special Concern		S4	1433	1.7 ± 0.2	NS
A	<i>Anarhichas lupus</i>	Atlantic Wolffish	Special Concern	Special Concern		SNR	1	75.3 ± 0.2	NS
A	<i>Botaurus exilis</i>	Least Bittern	Special Concern	Threatened		SUB	22	15.3 ± 0.2	NS
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1?B,SUN,SUM	37	14.5 ± 1.66	NS
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1B	66	62.8 ± 0.15	NB
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S1B	195	62.4 ± 0.1	NB
A	<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Not At Risk		Vulnerable	S1B,SUM	488	10.4 ± 0.1	NS
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S2?B,SUM	3	83.6 ± 0.15	NB
A	<i>Lynx canadensis</i>	Canada Lynx	Not At Risk		Endangered	S2S3	16	55.4 ± 5.0	NB
A	<i>Globicephala melas</i>	Long-finned Pilot Whale	Not At Risk			S2S3	1	81.9 ± 0.01	NB
A	<i>Hemidactylum scutatum</i>	Four-toed Salamander	Not At Risk			S3	66	24.7 ± 0.5	NS
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	229	56.8 ± 0.5	NB
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	233	16.8 ± 7.07	NB
A	<i>Buteo lagopus</i>	Rough-legged Hawk	Not At Risk			S3N	25	39.5 ± 0.2	NS
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4	4	76.7 ± 0.05	NS
A	<i>Amospiza nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	760	16.8 ± 7.07	NS
A	<i>Calidris canutus rufa</i>	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2M	450	25.1 ± 0.5	NS
A	<i>Odobenus rosmarus pop. 5</i>	Atlantic Walrus - Nova Scotia - Newfoundland - Gulf of St Lawrence population	X			SX	1	78.6 ± 5.0	NS
A	<i>Alces alces americana</i>	Moose			Endangered	S1	132	18.5 ± 0.2	NS
A	<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S1?	3	58.5 ± 11.0	NB
A	<i>Uria aalge</i>	Common Murre				S1?B	7	50.2 ± 0.2	NS
A	<i>Passerina cyanea</i>	Indigo Bunting				S1?B,SUM	63	16.8 ± 7.07	NS
A	<i>Nycticorax nycticorax</i>	Black-crowned Night Heron				S1B	3	100.0 ± 0.05	NB
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B	91	17.7 ± 0.2	NS
A	<i>Gallinula galeata</i>	Common Gallinule				S1B	57	44.5 ± 7.07	NS
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	59	14.8 ± 7.07	NS
A	<i>Cistothorus palustris</i>	Marsh Wren				S1B	82	63.1 ± 7.07	NS
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	151	1.7 ± 0.15	NS
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	36	15.6 ± 0.15	NS
A	<i>Salmo salar</i>	Atlantic Salmon				S1B,S1N	28	15.0 ± 0.41	NS
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B,S4M	1627	11.5 ± 0.2	NS
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B,S4M	1240	15.2 ± 0.2	NS
A	<i>Anas acuta</i>	Northern Pintail				S1B,SUM	148	12.3 ± 1.78	NS
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B,SUM	70	15.6 ± 0.15	NS
A	<i>Vesperilionidae sp.</i>	bat species				S1S2	187	10.5 ± 0.1	NS
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S1S2B,SUM	116	13.8 ± 7.07	NS
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B,SUM	106	15.0 ± 0.2	NS
A	<i>Alca torda</i>	Razorbill				S2B	35	41.3 ± 0.25	NS
A	<i>Fratercula arctica</i>	Atlantic Puffin				S2B	48	58.5 ± 11.0	NB
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	91	14.8 ± 7.07	NS
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	305	11.5 ± 0.01	NS
A	<i>Somateria mollissima</i>	Common Eider				S2B,S2N,S4M	395	10.2 ± 11.7	NS
A	<i>Spatula clypeata</i>	Northern Shoveler				S2B,SUM	419	100.0 ± 0.5	NB
A	<i>Mareca strepera</i>	Gadwall				S2B,SUM	543	15.2 ± 0.2	NS
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B,SUM	84	1.5 ± 0.2	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Calidris alba</i>	Sanderling				S2N,S3M	1262	24.0 ± 0.5	NS
A	<i>Marles americana</i>	American Marten			Endangered	S2S3	21	55.0 ± 0.1	NS
A	<i>Asio otus</i>	Long-eared Owl				S2S3	28	26.7 ± 7.07	NS
A	<i>Rallus limicola</i>	Virginia Rail				S2S3B	325	11.2 ± 0.2	NS
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S2S3B	21	23.7 ± 0.2	NS
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	505	13.1 ± 0.25	NS
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2S3B,S2S3N	44	20.0 ± 14.0	NS
A	<i>Morone saxatilis</i>	Striped Bass				S2S3B,S2S3N	35	15.3 ± 0.24	NS
A	<i>Cathartes aura</i>	Turkey Vulture				S2S3B,S2S3N	356	1.9 ± 0.2	NS
A	<i>Setophaga pinus</i>	Pine Warbler				S2S3B,S4S5M	97	10.1 ± 0.15	NS
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B,S4S5M	172	12.1 ± 0.36	NS
A	<i>Pluvialis dominica</i>	American Golden-Plover				S2S3B,SUM	192	25.0 ± 0.24	NS
A	<i>Numerius phaeopus</i>	Whimbrel				S2S3M	150	23.9 ± 0.2	NS
A	<i>hudsonicus</i>								
A	<i>Phalaropus fulicarius</i>	Red Phalarope				S2S3M	3	58.5 ± 11.0	NB
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	741	13.8 ± 7.07	NS
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	530	13.8 ± 7.07	NS
A	<i>Spinus pinus</i>	Pine Siskin				S3	759	11.6 ± 0.01	NS
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	233	100.0 ± 1.0	NS
A	<i>Salvelinus namaycush</i>	Lake Trout				S3	1	82.6 ± 0.01	NB
A	<i>Sorex maritimensis</i>	Maritime Shrew				S3	3	25.3 ± 1.0	NS
A	<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3	21	25.2 ± 0.5	NS
A	<i>Pekania pennanti</i>	Fisher				S3	19	11.0 ± 0.2	NS
A	<i>Calcarurus lapponicus</i>	Lapland Longspur				S3?N,SUM	14	2.9 ± 0.2	NS
A	<i>Spatula discors</i>	Blue-winged Teal				S3B	500	15.2 ± 0.2	NS
A	<i>Charadrius vociferus</i>	Killdeer				S3B	883	100.0 ± 0.1	NB
A	<i>Tringa semipalmata</i>	Willet				S3B	528	12.3 ± 0.5	NB
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	49	58.5 ± 11.0	NB
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	100	13.9 ± 7.07	NS
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	479	1.2 ± 0.2	NS
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	841	0.5 ± 0.15	NS
A	<i>Alosa pseudoharengus</i>	Alewife				S3B	32	21.8 ± 0.2	NS
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S4M	2009	15.0 ± 0.2	NS
A	<i>Falco sparverius</i>	American Kestrel				S3B,S4S5M	485	13.9 ± 7.07	NS
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3B,S4S5N,S5M	177	22.0 ± 0.15	NS
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B,S5M	1255	10.5 ± 0.25	NS
A	<i>Setophaga striata</i>	Blackpoll Warbler				S3B,S5M	124	10.9 ± 0.2	NS
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	192	11.1 ± 0.15	NS
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	136	11.8 ± 0.15	NS
A	<i>Setophaga tigrina</i>	Cape May Warbler				S3B,SUM	245	24.3 ± 0.2	NS
A	<i>Branta bernicla</i>	Brant				S3M	18	23.3 ± 0.2	NS
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M	1600	24.0 ± 0.5	NS
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	480	24.0 ± 0.5	NS
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	2055	15.2 ± 0.2	NS
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3M	386	15.2 ± 0.2	NS
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N	6	100.0 ± 0.5	NB
A	<i>Podiceps auritus pop. 2</i>	Horned Grebe - Western population		Special Concern		S3N,SUM	38	27.0 ± 10.0	NS
A	<i>Accipiter atricapillus</i>	American Goshawk				S3S4	172	13.8 ± 7.07	NS
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	129	21.2 ± 7.07	NS
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	362	13.8 ± 7.07	NS
A	<i>Sorex alibarbis</i>	Eastern Water Shrew				S3S4	3	92.5 ± 1.0	NB
A	<i>Glaucomys volans</i>	Southern Flying Squirrel				S3S4	11	16.6 ± 0.25	NS
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B,S4S5M	1083	11.4 ± 0.15	NS
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B,S4S5M	669	11.5 ± 0.01	NS
A	<i>Actitis macularius</i>	Tennessee Warbler				S3S4B,S5M	915	14.8 ± 7.07	NS
A	<i>Leiothlypis peregrina</i>	Fox Sparrow				S3S4B,S5M	470	15.2 ± 0.2	NS
A	<i>Passerella iliaca</i>					S3S4B,S5M	94	13.8 ± 7.07	NS

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A	<i>Calidris maritima</i>	Purple Sandpiper				S3S4N	117	24.3 ± 10.0	NS
A	<i>Lanius borealis</i>	Northern Shrike				S3S4N	48	23.5 ± 0.2	NS
A	<i>Bucephala clangula</i>	Common Goldeneye				S4B,S4N,S5M	183	14.8 ± 7.07	NS
A	<i>Morus bassanus</i>	Northern Gannet				SHB	53	100.0 ± 4.78	NS
A	<i>Aythya americana</i>	Redhead				SHB	8	84.9 ± 7.07	NS
A	<i>Leucophaeus atricilla</i>	Laughing Gull				SHB	9	65.8 ± 5.0	NB
A	<i>Progne subis</i>	Purple Martin				SHB	52	31.4 ± 7.07	NS
A	<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N,S5M	61	12.4 ± 0.15	NS
A	<i>Gadus morhua</i>	Atlantic Cod				SNR	6	25.7 ± 0.65	NS
I	<i>Bombus bohemicus</i>	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	16	35.3 ± 0.05	NS
I	<i>Danaus plexippus</i>	Monarch	Endangered	Endangered	Endangered	S2?B,S3M	1334	10.0 ± 0.01	NS
I	<i>Barnea truncata</i>	Atlantic Mud-piddock	Threatened	Threatened		S1	11	30.4 ± 0.2	NS
I	<i>Bombus suckleyi</i>	Suckley's Cuckoo Bumble Bee	Threatened			SH	2	66.0 ± 5.0	NS
I	<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S3	4	75.6 ± 0.1	NS
I	<i>Bombus terricola</i>	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	338	10.8 ± 0.2	NS
I	<i>Coccinella transversoguttata richardsoni</i>	Transverse Lady Beetle	Special Concern	Special Concern	Endangered	SH	5	34.9 ± 2.5	NS
I	<i>Gomphurus ventricosus</i>	Skillet Clubtail	Special Concern	Endangered		SH	2	68.2 ± 1.0	NS
I	<i>Epeoloides pilosulus</i>	Macropis Cuckoo Bee	Data Deficient	Endangered	Endangered	S1	2	36.8 ± 5.0	NS
I	<i>Quedius spelaeus</i>	Speleanrove Beetle				S1	1	53.4 ± 5.0	NS
I	<i>Erota laeta</i>	Early Hairstreak				S1	1	97.7 ± 1.0	NS
I	<i>Ophiogomphus anomalus</i>	Extra-Striped Snaketail				S1	3	98.8 ± 0.05	NS
I	<i>Pachydiplax longipennis</i>	Blue Dasher				S1	41	13.4 ± 0.2	NS
I	<i>Atlanticaoncha ochracea</i>	Tidewater Mucket				S1	37	50.3 ± 1.0	NS
I	<i>Polygonia comma</i>	Eastern Comma				S1?	30	10.8 ± 0.2	NS
I	<i>Polygonia satyrus</i>	Satyr Comma				S1?	8	45.2 ± 2.5	NS
I	<i>Boloria chariclea grandis</i>	Purple Lesser Fritillary				S1S2	9	37.6 ± 2.5	NS
I	<i>Somatochlora brevinicta</i>	Quebec Emerald				S1S2	1	65.2 ± 1.0	NS
I	<i>Hippodamia tredecimpunctata tibialis</i>	Thirteen-spotted Lady Beetle				S2	10	56.4 ± 0.2	NB
I	<i>Satyrium acadica</i>	Acadian Hairstreak				S2	5	60.6 ± 2.5	NS
I	<i>Coenagrion resolutum</i>	Taiga Bluet				S2	19	39.0 ± 0.2	NS
I	<i>Margaritifera margaritifera</i>	Eastern Pearlishell				S2	105	17.3 ± 8.76	NS
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S2?B	6	22.4 ± 0.2	NS
I	<i>Nymphalis l-album j-album</i>	Compton Tortoiseshell				S2S3	26	38.9 ± 0.2	NS
I	<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2S3	31	16.3 ± 1.0	NS
I	<i>Somatochlora kennedyi</i>	Kennedy's Emerald				S2S3	3	65.0 ± 0.1	NS
I	<i>Somatochlora williamsoni</i>	Williamson's Emerald				S2S3	9	21.0 ± 0.4	NS
I	<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S2S3	7	64.7 ± 0.01	NS
I	<i>Enallagma geminatum</i>	Skimming Bluet				S2S3	5	23.6 ± 0.2	NS
I	<i>Stylurus scudderi</i>	Zebra Clubtail				S2S3	30	37.5 ± 0.2	NS
I	<i>Alasmidonta undulata</i>	Triangle Floater				S2S3	32	42.8 ± 0.1	NS
I	<i>Strophiona nitens</i>	Chestnut Bark Long-horned Beetle				S3	5	10.9 ± 0.2	NS
I	<i>Psephenus herricki</i>	Herrick's Water Penny Beetle				S3	2	53.8 ± 0.2	NS
I	<i>Lebia ornata</i>	Ornate Harp Ground Beetle				S3	1	83.6 ± 0.2	NS
I	<i>Carabus serratus</i>	Serrated Ground Beetle				S3	1	97.4 ± 0.2	NS
I	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3	10	56.4 ± 0.2	NB
I	<i>Disonychia pennsylvanica</i>	Pennsylvania Flea Beetle				S3	1	18.8 ± 0.2	NS
I	<i>Chrysocorus auratus</i>	Dogbane Leaf Beetle				S3	8	41.7 ± 0.2	NS
I	<i>Naemia seriata</i>	Seaside Lady Beetle				S3	90	15.0 ± 2.12	NS
I	<i>Pachyrhinus elegans</i>	Elegant Broad-nosed Weevil				S3	2	83.6 ± 0.2	NS
I	<i>Eliateroides lugubris</i>	Sapwood Ship-timber Beetle				S3	1	97.4 ± 0.2	NS
I	<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle				S3	26	38.9 ± 0.2	NS
I	<i>Myzila pullata</i>	Streaked Lady Beetle				S3	9	56.4 ± 0.2	NB
I	<i>Ipthiminius opacus</i>	Cloudy Darkling Beetle				S3	2	56.7 ± 0.2	NB

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I	<i>Monochamus marmorator</i>	Balsam Fir Sawyer			S3		3	58.6 ± 0.2	NB
I	<i>Dicerca tenebrosa</i>	Dark Jewel Beetle			S3		2	39.2 ± 0.2	NS
I	<i>Dicerca tuberculata</i>	Swollen Jewel Beetle			S3		1	81.8 ± 9.73	NS
I	<i>Astylopsis sexguttata</i>	Six-speckled Long-horned Beetle			S3		2	90.2 ± 0.25	NS
I	<i>Satyrium calanus falacer</i>	Falacer Hairstreak			S3		57	11.2 ± 1.0	NS
I	<i>Callophrys lanoraleensis</i>	Bog Elfin			S3		31	28.2 ± 0.1	NS
I	<i>Styrmion melinus</i>	Gray Hairstreak			S3		19	11.8 ± 2.5	NS
I	<i>Pharogomphus descriptus</i>	Harpoon Clubtail			S3		7	91.0 ± 0.1	NS
I	<i>Ophiogomphus aspersus</i>	Brook Snaketail			S3		17	52.7 ± 0.1	NS
I	<i>Ophiogomphus mainensis</i>	Maine Snaketail			S3		14	21.7 ± 0.2	NS
I	<i>Ophiogomphus rupinulensis</i>	Rusty Snaketail			S3		26	52.7 ± 0.1	NS
I	<i>Epitheca princeps</i>	Prince Baskettail			S3		25	68.7 ± 1.0	NS
I	<i>Somatochlora forcipata</i>	Forcipate Emerald			S3		8	37.5 ± 0.2	NS
I	<i>Enallagma vernale</i>	Vernal Bluet			S3		3	67.8 ± 1.0	NS
I	<i>Strophitus undulatus</i>	Creeping			S3		6	89.2 ± 1.0	NS
I	<i>Polygonia interrogatoris</i>	Question Mark			S3B		186	14.1 ± 0.4	NS
I	<i>Lepturopsis biforis</i>	Two-spotted Long-horned Beetle			S3S4		2	24.4 ± 0.2	NS
I	<i>Cecropiterus pylades</i>	Northern Cloudwing			S3S4		4	70.1 ± 0.01	NB
I	<i>Amblyscirtes hegou</i>	Pepper and Salt Skipper			S3S4		24	18.2 ± 2.5	NS
I	<i>Cupido comyntas</i>	Eastern Tailed Blue			S3S4		39	13.4 ± 0.4	NS
I	<i>Argynnis aphrodite</i>	Aphrodite Fritillary			S3S4		2	77.9 ± 0.05	NB
I	<i>Argynnis aphrodite winni</i>	Aphrodite Fritillary			S3S4		40	11.3 ± 2.5	NS
I	<i>Polygonia faunus</i>	Green Comma			S3S4		25	37.4 ± 1.0	NS
I	<i>Oeneis jutta ascerta</i>	Jutta Arctic			S3S4		32	35.4 ± 0.2	NS
I	<i>Aeshna clepsydra</i>	Mottled Darner			S3S4		21	26.0 ± 1.0	NS
I	<i>Aeshna constricta</i>	Lance-Tipped Damer			S3S4		55	11.2 ± 0.2	NS
I	<i>Boyeria grafiana</i>	Ocellated Darner			S3S4		16	14.8 ± 0.5	NS
I	<i>Gomphaeschna furcillata</i>	Harlequin Darner			S3S4		40	1.3 ± 0.2	NS
I	<i>Somatochlora franklini</i>	Delicate Emerald			S3S4		6	39.2 ± 0.2	NS
I	<i>Erythrodiplex berenice</i>	Seaside Dragonlet			S3S4		27	79.1 ± 0.1	NS
I	<i>Nannothemis bella</i>	Elfin Skimmer			S3S4		2	100.0 ± 0.01	NS
I	<i>Symptetrus danae</i>	Black Meadowhawk			S3S4		4	71.7 ± 0.2	NS
I	<i>Enallagma vesperum</i>	Vesper Bluet			S3S4		22	44.9 ± 0.01	NS
I	<i>Amphiagrion saucium</i>	Eastern Red Damsel			S3S4		10	42.8 ± 0.2	NS
I	<i>Icaricia saepiolus amica</i>	Greenish Blue			SH		2	97.6 ± 2.5	NS
I	<i>Chlosyne nycteis</i>	Silvery Checkerspot			SH		4	84.7 ± 2.5	NS
I	<i>Eristalis brousi</i>	Hourglass Drone Fly			SX		1	39.0 ± 0.2	NS
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	S1		9	32.5 ± 1.0	NS
N	<i>Erioderma pedicellatum</i>	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	S1		15	34.4 ± 0.5	NS
N	<i>Peltigera hydrophyia</i>	Eastern Waterfan	Threatened	Threatened	S1		916	35.4 ± 0.01	NS
N	<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	S2S3		305	22.6 ± 0.01	NS
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	S3		173	29.3 ± 0.01	NS
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened	Threatened	S3		39	100.0 ± 0.01	NS
N	<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen	Threatened	Threatened	S3		166	27.0 ± 0.01	NS
N	<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	S3		182	18.1 ± 0.2	NS
N	<i>Scierophora peronella</i>	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern	S3S4		144	100.0 ± 0.2	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk	Not At Risk	S2S3		42	29.6 ± 1.5	NS
N	<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk	Not At Risk	S3		18	13.3 ± 0.2	NS
N	<i>Radula obconica</i>	a scalewort	Not At Risk	Not At Risk	S1		1	64.5 ± 0.2	NS
N	<i>Alcina brevirostris</i>	Short-Beaked Rigid Screw Moss			S1		2	53.4 ± 2.5	NS
N	<i>Homalothecella subcapitata</i>	Few-haired Moss			S1		1	93.9 ± 0.2	NS
N	<i>Orthotrichum gymnostomum</i>	Aspen Bristle Moss			S1		1	20.0 ± 0.2	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity	Rank	# recs	Distance (km)	Prov
N	<i>Orthotrichum pallens</i>	Pale Bristle Moss			S1			1	92.7 ± 0.1	NS
N	<i>Seligeria calcareea</i>	Chalk Brittle Moss			S1			2	66.8 ± 0.2	NB
N	<i>Seligeria diversifolia</i>	a Moss			S1			1	68.2 ± 0.1	NB
N	<i>Sematophyllum demissum</i>	a Moss			S1			2	63.4 ± 1.6	NS
N	<i>Tetradontium brownianum</i>	Little Georgia			S1			8	54.1 ± 0.1	NB
N	<i>Cyrtrohypnum minutulum</i>	Tiny Cedar Moss			S1			1	92.1 ± 0.1	NS
N	<i>Blennothallia crispa</i>	Crinkled Jelly Lichen			S1			1	50.4 ± 0.05	NS
N	<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen			S1			2	54.3 ± 1.0	NB
N	<i>Usnea perplexans</i>	Powdered Beard Lichen			S1			3	27.6 ± 1.0	NS
N	<i>Scytinium dactylinum</i>	Brown-buttoned Jellyskin Lichen			S1			2	11.9 ± 0.34	NS
N	<i>Flavoparmelia baltimorensis</i>	Rock Greenshield Lichen			S1			2	75.2 ± 0.2	NS
N	<i>Cetrariaella delisei</i>	Snowbed Icelandmoss Lichen			S1			1	64.3 ± 1.0	NB
N	<i>Lathagrium cristatum</i>	Fingered Jelly Lichen			S1			6	47.3 ± 0.05	NS
N	<i>Ephebe hispidula</i>	Dryside Rockshag Lichen			S1			1	46.8 ± 0.05	NS
N	<i>Ephebe perspinulosa</i>	Thread Lichen			S1			2	11.7 ± 1.33	NS
N	<i>Fuscopannaria praetermissa</i>	Moss Shingles Lichen			S1			1	47.8 ± 0.05	NS
N	<i>Scytinium schraderi</i>	Wrinkled Jellyskin Lichen			S1			1	90.8 ± 0.05	NS
N	<i>Parmotrema perforatum</i>	Perforated Ruffle Lichen			S1			46	90.4 ± 0.01	NS
N	<i>Polychidium muscicola</i>	Eyed Mossthorns			S1			13	36.4 ± 0.01	NS
N	<i>Pseudevernia consocians</i>	Woollybear Lichen			S1			2	90.4 ± 0.05	NS
N	<i>Psorula rufonigra</i>	Common Antler Lichen			S1			1	73.0 ± 8.0	NS
N	<i>Spilonema revertens</i>	Blue-edged Scale Lichen			S1			5	55.0 ± 0.01	NS
N	<i>Sticta limbata</i>	Rock Hairball Lichen			S1			12	31.3 ± 2.0	NS
N	<i>Lathagrium fuscovirens</i>	Powdered Moon Lichen			S1			2	36.9 ± 0.05	NS
N	<i>Dermatocarpon minutum</i>	Crumpled Rock Tarpaper Lichen			S1			2	30.8 ± 0.01	NS
N	<i>Peltigera lepidophora</i>	Common Stippleback Lichen			S1			13	18.7 ± 0.2	NS
N	<i>Hypogymnia hultenii</i>	Scaly Pelt Lichen			S1			3	86.0 ± 0.5	NS
N	<i>Notothylas orbicularis</i>	Powdered Honeycomb Lichen			S1?			1	63.5 ± 0.2	NS
N	<i>Calypogeia neogaea</i>	Round Hornwort			S1?			3	17.1 ± 0.2	NS
N	<i>Jubula pennsylvanica</i>	Common Pouchwort			S1?			14	58.9 ± 0.2	NS
N	<i>Aloina rigida</i>	a liverwort			S1?			4	51.9 ± 0.1	NS
N	<i>Imbricarium muehlenbeckii</i>	Aloe-Like Rigid Screw Moss			S1?			2	37.2 ± 0.01	NS
N	<i>Cirriophyllum pliferum</i>	Muehlenbeck's Bryum Moss			S1?			4	35.5 ± 0.2	NS
N	<i>Conardia compacta</i>	Hair-pointed Moss			S1?			2	53.7 ± 1.5	NB
N	<i>Tortula obtusifolia</i>	Coast Creeping Moss			S1?			1	71.7 ± 0.1	NB
N	<i>Didymodon tophaceus</i>	a Moss			S1?			2	50.4 ± 0.01	NS
N	<i>Grimmia anodon</i>	Olive Beard Moss			S1?			2	93.1 ± 3.0	NS
N	<i>Homomallium adnatum</i>	Toothless Grimmia Moss			S1?			2	21.6 ± 0.2	NS
N	<i>Meesia triquetra</i>	Adnate Hairy-gray Moss			S1?			3	86.4 ± 0.01	NS
N	<i>Paludella squarrosa</i>	Three-ranked Cold Moss			S1?			3	56.8 ± 0.01	NS
N	<i>Physcomitrium immersum</i>	Tufted Fen Moss			S1?			8	19.6 ± 0.2	NS
N	<i>Platydictya minutissima</i>	a Moss			S1?			1	34.6 ± 0.2	NS
N	<i>Schistostegia pennata</i>	Small Willow Moss			S1?			2	64.8 ± 0.01	NS
N	<i>Timmia norvegica</i>	Luminous Moss			S1?			3	53.8 ± 0.1	NB
N	<i>Trichodon cylindricus</i>	a moss			S1?			5	17.4 ± 0.2	NS
N	<i>Plagiomnium ellipticum</i>	Cylindric Hairy-teeth Moss			S1?			1	28.3 ± 0.01	NS
N	<i>Syntrichia ruralis</i>	Marsh Leafy Moss			S1?			1	90.0 ± 0.1	NB
N	<i>Encylium limosum</i>	a Moss			S1?			2	50.1 ± 0.2	NS
N	<i>Euopsis granatina</i>	Lime-loving Tarpaper Lichen			S1?			1	48.5 ± 1.33	NS
N	<i>Scytinium intermedium</i>	Lesser Rockbud Lichen			S1?			1	50.5 ± 4.0	NS
N	<i>Melanelia culbersonii</i>	Forty-five Jellyskin Lichen			S1?			1	78.5 ± 0.05	NS
N	<i>Peltigera malacea</i>	Appalachian Camouflage Lichen			S1?			1	60.2 ± 1.0	NB
N		Veinless Pelt Lichen			S1?			1		

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N	<i>Peltigera venosa</i>	Fan Pelt Lichen			S1?		3	80.0 ± 1.0	NB
N	<i>Porella pinnata</i>	Pinnate Scalewort			S1S2		2	31.5 ± 0.2	NS
N	<i>Reboulia hemisphaerica</i>	Purple-margined Liverwort			S1S2		2	27.1 ± 0.2	NS
N	<i>Arthenopterum heterostichum</i>	One-sided Groove Moss			S1S2		3	53.4 ± 2.5	NS
N	<i>Brachythecium turgidum</i>	Thick Ragged Moss			S1S2		3	20.2 ± 0.3	NS
N	<i>Dicranoweisia crispula</i>	Mountain Thatch Moss			S1S2		1	58.8 ± 0.1	NB
N	<i>Didymodon rigidulus</i>	Rigid Screw Moss			S1S2		10	53.8 ± 0.1	NB
N	<i>Didymodon ferrugineus</i>	Rusty Beard Moss			S1S2		1	54.1 ± 0.1	NB
N	<i>Hygrohypnum montanum</i>	a Moss			S1S2		2	64.4 ± 1.0	NB
N	<i>Hynum pratense</i>	Meadow Plait Moss			S1S2		1	7.8 ± 3.0	NB
N	<i>Mnium thomsonii</i>	Thomson's Leafy Moss			S1S2		1	47.8 ± 2.0	NS
N	<i>Tortula acaulon</i>	Cuspidate Earth Moss			S1S2		8	16.1 ± 0.2	NS
N	<i>Plagiothecium latebricola</i>	Alder Silk Moss			S1S2		3	54.8 ± 1.0	NB
N	<i>Platydictya confervoides</i>	a Moss			S1S2		1	49.2 ± 0.01	NS
N	<i>Seligeria donniana</i>	Donian Beardless Moss			S1S2		1	83.4 ± 3.2	NS
N	<i>Sematophyllum marylandicum</i>	a Moss			S1S2		3	87.8 ± 0.1	NS
N	<i>Timmia megapolitana</i>	Metropolitan Timmia Moss			S1S2		2	57.4 ± 1.6	NS
N	<i>Tortula mucronifolia</i>	Mucronate Screw Moss			S1S2		2	32.0 ± 3.0	NS
N	<i>Syntrichia papillosa</i>	a Moss			S1S2		3	17.9 ± 0.2	NS
N	<i>Pseudotaxiphyllum distichaceum</i>	a Moss			S1S2		3	63.5 ± 4.8	NS
N	<i>Hamatocaulis vernicosus</i>	a Moss			S1S2		5	86.4 ± 0.2	NS
N	<i>Haplodadium microphyllum</i>	Tiny-leaved Haplodadium Moss			S1S2		2	64.9 ± 3.2	NS
N	<i>Rhynchosstegium serrulatum</i>	Dark Beaked Moss			S1S2		1	72.6 ± 2.0	NS
N	<i>Enchylium bachmanianum</i>	Bachman's Jelly Lichen			S1S2		2	23.7 ± 0.2	NS
N	<i>Sclerophora amabilis</i>	Collared Glass-whiskers Lichen			S1S2		4	64.4 ± 0.01	NS
N	<i>Cladonia sulphurina</i>	Greater Sulphur-cup Lichen			S1S2		7	64.3 ± 0.2	NB
N	<i>Peltigera porojensis</i>	Pale-bellied Pelt Lichen			S1S2		4	55.8 ± 1.0	NB
N	<i>Pilophorus cereolus</i>	Powdered Matchstick Lichen			S1S2		3	68.1 ± 3.0	NS
N	<i>Rhizoplaca subdiscrepans</i>	Scattered Rock-posy Lichen			S1S2		10	64.8 ± 0.2	NS
N	<i>Parmotrema reticulatum</i>	Netted Ruffle Lichen			S1S2		14	27.7 ± 0.05	NS
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen			S1S2		1	86.2 ± 0.1	NS
N	<i>Radula tenax</i>	Tenacious Scalewort			S1S3		2	51.4 ± 0.2	NS
N	<i>Aphanorhagma serratum</i>	Lidded Earth Moss			S1S3		1	32.3 ± 0.2	NS
N	<i>Chaenotheca hygrophila</i>	a lichen			S1S3		3	71.3 ± 0.2	NS
N	<i>Lecanora polytrpa</i>	a lichen			S1S3		8	29.5 ± 1.0	NS
N	<i>Acarospora sinopica</i>	a cracked lichen			S1S3		2	98.0 ± 0.2	NS
N	<i>Heterodermia galactophylla</i>	Branching Fringe Lichen			S1S3		5	29.4 ± 0.2	NS
N	<i>Xylopsora friesii</i>	a Lichen			S1S3		1	54.3 ± 1.0	NB
N	<i>Peltigera neckeri</i>	Black-saddle Pelt Lichen			S1S3		4	62.5 ± 5.0	NB
N	<i>Usnea fragilesceus</i>	Inflantary Beard Lichen			S1S3		2	27.6 ± 1.0	NS
N	<i>Usnea chaetophora</i>	Articulated Beard Lichen			S1S3		1	30.1 ± 0.05	NS
N	<i>Stereocaulon grande</i>	Grand Foam Lichen			S1S3		1	97.9 ± 0.5	NS
N	<i>Stereocaulon intermedium</i>	Pacific Brain Foam Lichen			S1S3		14	27.7 ± 2.6	NS
N	<i>Anacamptodon splachnoides</i>	a Moss			S2		6	17.8 ± 0.2	NS
N	<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss			S2		5	35.9 ± 0.01	NS
N	<i>Sphagnum subnitens</i>	Lustrous Peat Moss			S2		4	99.2 ± 0.3	NS
N	<i>Usnea flavocardia</i>	Blood-splattered Beard Lichen			S2		1	88.6 ± 4.5	NS
N	<i>Cystocoleus ebeneus</i>	Rockgossamer Lichen			S2		6	18.1 ± 0.2	NS
N	<i>Cladonia wainioi</i>	False Reindeer Lichen			S2		3	63.3 ± 0.2	NB
N	<i>Hypotrachyna caticawbiensis</i>	Powder-tipped Antler Lichen			S2		60	21.8 ± 0.5	NS
N	<i>Scytinium imbricatum</i>	Scaly Jellyskin Lichen			S2		5	23.6 ± 0.2	NS
N	<i>Nephroma arcticum</i>	Arctic Kidney Lichen			S2		4	38.0 ± 0.5	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Nephroma resupinatum</i>	a lichen			S2		14	24.1 ± 0.01	NS
N	<i>Placynthium flabelliforme</i>	Scaly Ink Lichen			S2		11	36.4 ± 0.05	NS
N	<i>Anaptychia crinalis</i>	Hanging Fringed Lichen			S2		1	82.3 ± 1.0	NB
N	<i>Cololejeunea biddiecomiae</i>	Biddlecome's Pouncewort			S2?		1	31.3 ± 0.2	NS
N	<i>Moerckia flotowiana</i>	Flotow's Ruffwort			S2?		1	50.7 ± 0.01	NS
N	<i>Riccardia multifida</i>	Delicate Germanewort			S2?		4	31.3 ± 0.2	NS
N	<i>Anomodon viticulosus</i>	a Moss			S2?		2	7.5 ± 0.2	NS
N	<i>Weissia muhlenbergiana</i>	a Moss			S2?		7	13.3 ± 0.2	NS
N	<i>Atrichum angustatum</i>	Lesser Smoothcap Moss			S2?		10	20.7 ± 0.2	NS
N	<i>Pychostromum pendulum</i>	Drooping Bryum			S2?		1	53.4 ± 2.5	NS
N	<i>Drepanocladus polygamus</i>	Polygamous Hook Moss			S2?		10	28.1 ± 0.2	NS
N	<i>Pseudocampyllum radicale</i>	Long-stalked Fine Wet Moss			S2?		3	7.8 ± 3.0	NS
N	<i>Climacium americanum</i>	American Tree Moss			S2?		10	80.9 ± 0.2	NS
N	<i>Dicranum condensatum</i>	Condensed Broom Moss			S2?		5	58.8 ± 0.1	NB
N	<i>Ditrichum rhynchostegium</i>	a Moss			S2?		6	89.8 ± 1.0	NS
N	<i>Fissidens bushii</i>	Bush's Pocket Moss			S2?		17	28.4 ± 0.2	NS
N	<i>Fontinalis hypnoides</i>	a moss			S2?		2	92.4 ± 0.5	NS
N	<i>Fontinalis sulivantii</i>	Sulivant's Water Moss			S2?		3	83.2 ± 0.01	NS
N	<i>Grimmia olneyi</i>	a Moss			S2?		10	87.6 ± 0.3	NS
N	<i>Grimmia anomala</i>	Mountain Forest Grimmia			S2?		1	67.1 ± 1.5	NS
N	<i>Hygrohypnum bestii</i>	Best's Brook Moss			S2?		6	34.0 ± 0.01	NS
N	<i>Orthotrichum anomalum</i>	Anomalous Bristle Moss			S2?		8	19.9 ± 0.2	NS
N	<i>Philonotis marchica</i>	a Moss			S2?		2	80.0 ± 0.2	NB
N	<i>Physcomitrium collenchymatum</i>	a Moss			S2?		1	8.7 ± 0.1	NS
N	<i>Platydictya jungermannioides</i>	False Willow Moss			S2?		3	54.1 ± 0.1	NB
N	<i>Rhytidium rugosum</i>	Wrinkle-leaved Moss			S2?		2	53.9 ± 1.0	NB
N	<i>Saelania glaucescens</i>	Blue Dew Moss			S2?		2	58.8 ± 0.1	NB
N	<i>Tortella fragilis</i>	Fragile Twisted Moss			S2?		1	53.8 ± 0.1	NB
N	<i>Anomobryum julaceum</i>	Slender Silver Moss			S2?		4	53.9 ± 1.0	NB
N	<i>Rauella scita</i>	Smaller Fern Moss			S2?		16	87.5 ± 0.1	NS
N	<i>Cyrtomium hymenophylloides</i>	Short-pointed Lantern Moss			S2?		7	53.8 ± 0.1	NB
N	<i>Platyommella lescurei</i>	a Moss			S2?		19	23.0 ± 0.2	NS
N	<i>Phyllicum demangeonii</i>	Black Rock-wafer Lichen			S2?		7	45.1 ± 0.05	NS
N	<i>Oxyrrhynchium hians</i>	Light Beaked Moss			S2S3		7	37.3 ± 5.0	NS
N	<i>Platydictya subtilis</i>	Bark Willow Moss			S2S3		7	25.8 ± 0.2	NS
N	<i>Plagiominium rostratum</i>	Long-beaked Leafy Moss			S2S3		10	53.8 ± 0.1	NB
N	<i>Scorpidium revolvens</i>	Limprichtia Moss			S2S3		3	56.7 ± 0.01	NS
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen			S2S3		12	19.5 ± 0.08	NS
N	<i>Moelleropsis nebulosa</i> ssp. <i>frullanae</i>	Blue-gray Moss Shingle Lichen			S2S3		1	98.3 ± 0.5	NS
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen			S2S3		21	32.3 ± 1.0	NS
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen			S2S3		115	16.3 ± 0.01	NS
N	<i>Usnea ceratina</i>	Warty Beard Lichen			S2S3		3	30.9 ± 0.05	NS
N	<i>Usnea hirta</i>	Bristly Beard Lichen			S2S3		9	45.8 ± 0.2	NS
N	<i>Usnea scabrata</i>	Straw Beard Lichen			S2S3		3	78.1 ± 1.0	NS
N	<i>Usnea rubicunda</i>	Red Beard Lichen			S2S3		5	39.6 ± 0.05	NS
N	<i>Aritania aurescens</i>	Eastern Candlewax Lichen			S2S3		47	45.0 ± 2.0	NS
N	<i>Usnocetraria oakesiana</i>	Yellow Band Lichen			S2S3		24	16.8 ± 0.2	NS
N	<i>Catinaria atropurpurea</i>	a lichen			S2S3		1	63.5 ± 0.2	NB
N	<i>Cetraria muricata</i>	Spiny Heath Lichen			S2S3		1	89.5 ± 0.01	NS
N	<i>Cladonia incrasata</i>	Powder-foot British Soldiers Lichen			S2S3		1	59.1 ± 0.2	NS
N	<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup			S2S3		7	23.9 ± 1.2	NS
N	<i>Cladonia parasitica</i>	Fence-rail Lichen			S2S3		4	30.8 ± 1.2	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Scytinium tenuissimum</i>	Birdnest Jellyskin Lichen			S2S3	11	47.6 ± 0.1	NS	
N	<i>Melanella hepatica</i>	Rimmed Camouflage Lichen			S2S3	2	65.7 ± 0.2	NB	
N	<i>Melanohalea septentrionalis</i>	Northern Camouflage Lichen			S2S3	12	40.1 ± 0.6	NS	
N	<i>Myelochroa aurulenta</i>	Powdery Axil-bristle Lichen			S2S3	11	22.9 ± 2.3	NS	
N	<i>Parmelia fertilis</i>	Fertile Shield Lichen			S2S3	23	24.1 ± 0.2	NS	
N	<i>Hypotrachyna minarum</i>	Hairless-spined Shield Lichen			S2S3	33	27.6 ± 1.0	NS	
N	<i>Parmeliopsis ambigua</i>	Green Starburst Lichen			S2S3	2	21.9 ± 2.0	NS	
N	<i>Racodium rupestre</i>	Rockhair Lichen			S2S3	4	78.8 ± 0.01	NS	
N	<i>Umbilicaria polyphylla</i>	Petalled Rocktripe Lichen			S2S3	2	21.9 ± 2.0	NS	
N	<i>Usnea cavemosa</i>	Pitted Beard Lichen			S2S3	8	16.5 ± 0.2	NS	
N	<i>Usnea mutabilis</i>	Bloody Beard Lichen			S2S3	1	39.5 ± 0.25	NS	
N	<i>Fuscopannaria sorediata</i>	a Lichen			S2S3	19	65.3 ± 0.2	NB	
N	<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen			S2S3	19	26.2 ± 0.2	NS	
N	<i>Stereocaulon subcoralloides</i>	Coralloid Foam Lichen			S2S3	1	54.8 ± 1.0	NB	
N	<i>Dimelaena oreina</i>	Golden Moonglow Lichen			S2S3	6	64.7 ± 0.2	NS	
N	<i>Hypotrachyna revoluta</i>	Granulating Loop Lichen			S2S3	5	30.9 ± 0.2	NS	
N	<i>Cetraria arenaria</i>	Sand-loving Icelandmoss Lichen			S2S3	34	21.3 ± 0.0	NS	
N	<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen			S2S3	2	32.2 ± 0.01	NS	
N	<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen			S2S3	14	26.1 ± 3.0	NS	
N	<i>Cladonia phyllophora</i>	Felt Lichen			S2S3	3	10.3 ± 4.5	NS	
N	<i>Hypotrachyna afrorevoluta</i>	Pustulate Revolute Loop Lichen			S2S3	82	30.2 ± 1.5	NS	
N	<i>Usnea flammea</i>	Coastal Bushy Beard Lichen			S2S3	3	34.5 ± 0.05	NS	
N	<i>Ephemerum serratum</i>	a Moss			S3	12	10.9 ± 0.2	NS	
N	<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss			S3	16	11.5 ± 0.2	NS	
N	<i>Anomodon tristis</i>	a Moss			S3	20	27.1 ± 0.01	NS	
N	<i>Sphagnum contortum</i>	Twisted Peat Moss			S3	8	28.1 ± 0.2	NS	
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss			S3	5	34.7 ± 0.1	NS	
N	<i>Rostania occulta</i>	Crusted Tarpaper Lichen			S3	11	35.3 ± 2.0	NS	
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen			S3	61	17.7 ± 0.01	NS	
N	<i>Solorina sacata</i>	Woodland Owl Lichen			S3	24	47.1 ± 0.05	NS	
N	<i>Fuscopannaria ahlineri</i>	Roughened Shingle Lichen			S3	39	30.5 ± 1.0	NS	
N	<i>Scytinium ichenoides</i>	Tattered Jellyskin Lichen			S3	46	47.2 ± 0.01	NS	
N	<i>Leptogium milligranum</i>	Stretched Jellyskin Lichen			S3	35	24.7 ± 0.2	NS	
N	<i>Nephroma bellum</i>	Naked Kidney Lichen			S3	25	100.0 ± 0.01	NS	
N	<i>Placynthium nigrum</i>	Common Ink Lichen			S3	3	47.6 ± 0.2	NS	
N	<i>Platismatia norvegica</i>	Oldgrowth Rag Lichen			S3	1	60.1 ± 0.01	NS	
N	<i>Punctelia appalachensis</i>	Appalachian Speckleback Lichen			S3	209	18.9 ± 0.2	NS	
N	<i>Virdothelium virens</i>	a lichen			S3	6	29.0 ± 0.5	NS	
N	<i>Ephebe lanata</i>	Waterside Rockshag Lichen			S3	16	36.4 ± 0.01	NS	
N	<i>Phaeophyscia adiastrata</i>	Powder-tipped Shadow Lichen			S3	25	29.0 ± 0.01	NS	
N	<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen			S3	18	15.8 ± 0.05	NS	
N	<i>Peltigera collina</i>	Tree Pelt Lichen			S3	6	44.3 ± 0.5	NS	
N	<i>Metzgeria conjugata</i>	Rock Veilwort			S3?	4	31.3 ± 0.53	NS	
N	<i>Barbula convoluta</i>	Lesser Bird's-claw Beard Moss			S3?	6	32.0 ± 0.2	NS	
N	<i>Calliergon giganteum</i>	Giant Spear Moss			S3?	3	36.2 ± 0.01	NS	
N	<i>Drummondia prorepens</i>	a Moss			S3?	9	14.6 ± 0.2	NS	
N	<i>Elodium blandowii</i>	Blandow's Bog Moss			S3?	5	28.3 ± 0.01	NS	
N	<i>Mnium stellare</i>	Star Leafy Moss			S3?	3	50.6 ± 1.5	NS	
N	<i>Sphagnum lindbergii</i>	Lindberg's Peat Moss			S3?	4	82.7 ± 5.0	NB	

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?	4	25.6 ± 1.5	NS
N	<i>Cladonia stygia</i>	Lichen				S3?	40	16.9 ± 0.2	NS
N	<i>Anomodon rugelii</i>	Rugel's Anomodon Moss				S3S4	10	28.9 ± 0.6	NS
N	<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S3S4	9	48.3 ± 3.0	NS
N	<i>Dicranum leioureion</i>	a Dicranum Moss				S3S4	2	62.9 ± 0.1	NB
N	<i>Encalypta ciliata</i>	Fringed Extinguisher Moss				S3S4	3	30.8 ± 1.0	NS
N	<i>Encalypta procera</i>	Slender Extinguisher Moss				S3S4	8	52.1 ± 0.2	NS
N	<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4	3	53.8 ± 0.1	NB
N	<i>Sphagnum ampullaceum</i>	Cruet Dung Moss				S3S4	4	34.5 ± 0.1	NS
N	<i>Thamnobryum alleghaniense</i>	a Moss				S3S4	52	19.2 ± 4.0	NS
N	<i>Tomentypnum nitens</i>	Golden Fuzzy Fen Moss				S3S4	4	56.7 ± 0.2	NS
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4	6	25.8 ± 0.01	NS
N	<i>Hylacomiastrum pyrenaicum</i>	a Feather Moss				S3S4	5	35.5 ± 0.2	NS
N	<i>Byoria pseudotufuscens</i>	Mountain Horsehair Lichen				S3S4	28	27.6 ± 1.5	NS
N	<i>Enchylium tenax</i>	Soil Tarpaper Lichen				S3S4	10	29.7 ± 0.01	NS
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3S4	48	21.2 ± 0.5	NS
N	<i>Arctoparmelia incurva</i>	Finger Ring Lichen				S3S4	42	35.0 ± 0.2	NS
N	<i>Scytinium teretiusculum</i>	Curly Jellyskin Lichen				S3S4	30	30.3 ± 0.2	NS
N	<i>Leptogium acadense</i>	Acadian Jellyskin Lichen				S3S4	78	100.0 ± 0.01	NS
N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	48	12.9 ± 0.76	NS
N	<i>Felipes leucopellaeus</i>	a lichen				S3S4	4	64.2 ± 0.2	NS
N	<i>Bacidia laurocerasi</i>	a Lichen				S3S4	5	55.8 ± 1.0	NB
N	<i>Chaenotheca brachypoda</i>	a stubble lichen				S3S4	2	64.2 ± 0.01	NS
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	10	48.4 ± 0.01	NS
N	<i>Vahliaella leucophaea</i>	Shelter Shingle Lichen				S3S4	48	18.7 ± 0.2	NS
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3S4	149	100.0 ± 0.01	NS
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	224	100.0 ± 0.01	NS
N	<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4	12	29.5 ± 1.5	NS
N	<i>Parmeliopsis hyperopta</i>	Gray Starburst Lichen				S3S4	7	34.5 ± 0.05	NS
N	<i>Parmotrema perlatum</i>	Powdered Ruffle Lichen				S3S4	55	21.0 ± 0.01	NS
N	<i>Peltigera hymenina</i>	Cloudy Pelt Lichen				S3S4	1	36.0 ± 1.5	NS
N	<i>Sphaerophorus fragilis</i>	Fragile Coral Lichen				S3S4	3	92.4 ± 3.08	NS
N	<i>Coccocarpiia palmicola</i>	Salted Shell Lichen				S3S4	126	28.0 ± 0.2	NS
N	<i>Physcia caesia</i>	Blue-gray Rosette Lichen				S3S4	3	18.7 ± 0.2	NS
N	<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4	5	91.1 ± 0.02	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	441	1.0 ± 0.2	NS
N	<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4	51	10.5 ± 0.2	NS
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	174	19.0 ± 0.01	NS
P	<i>Rhynchospora macrostachya</i>	Tall Beakrush	Endangered	Endangered	Endangered	S1	60	84.7 ± 0.01	NS
P	<i>Trichostema dichotomum</i>	Forked Bluecurts	Threatened			S1	10	79.1 ± 0.2	NS
P	<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2	1055	5.6 ± 0.2	NS
P	<i>Clethra alnifolia</i>	Coast Pepper-Bush	Threatened	Threatened	Vulnerable	S2	177	80.0 ± 0.01	NS
P	<i>Hydrocotyle umbellata</i>	Water Pennywort	Special Concern	Special Concern	Endangered	S2	89	91.5 ± 2.9	NS
P	<i>Lachnanthes caroliniana</i>	Redroot	Special Concern	Special Concern	Vulnerable	S2	1491	83.8 ± 0.01	NS
P	<i>Lophiola aurea</i>	Goldcrest	Special Concern	Special Concern	Vulnerable	S2	798	74.4 ± 0.01	NS
P	<i>Lilaopsis chinensis</i>	Eastern Lilaopsis	Special Concern	Special Concern	Vulnerable	S3	153	84.3 ± 0.01	NS
P	<i>Scirpus longii</i>	Long's Bulrush	Special Concern	Special Concern	Vulnerable	S3	371	72.4 ± 0.01	NS
P	<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3	18	47.9 ± 0.1	NS
P	<i>Floerkea proserpinacoides</i>	False Mermaidweed	Not At Risk			S2S3	37	7.3 ± 0.01	NS
P	<i>Acer saccharinum</i>	Silver Maple				S1	24	100.0 ± 0.01	NB
P	<i>Toxicodendron vernix</i>	Poison Sumac				S1	42	96.0 ± 0.5	NS
P	<i>Osmorhiza depauperata</i>	Blunt Sweet Cicely				S1	1	24.4 ± 5.0	NS
P	<i>Antennaria rosea ssp. arida</i>	Rosy Pussytoes				S1	1	20.1 ± 0.5	NS
P	<i>Erigeron compositus</i>	Cut-leaved Fleabane				S1	1	93.9 ± 0.01	NS
P	<i>Andersonglossum boreale</i>	Northern Wild Comfrey				S1	5	13.2 ± 0.1	NS
P	<i>Turritis glabra</i>	Tower Mustard				S1	2	44.3 ± 0.5	NS

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P	<i>Lobelia spicata</i>	Pale-Spiked Lobelia			S1		8	27.3 ± 7.07	NS
P	<i>Silene antirrhina</i>	Sleepy Catchfly			S1		5	23.4 ± 0.01	NS
P	<i>Callitriche hermaphroditica</i>	Northern Water-starwort			S1		5	59.6 ± 0.01	NB
P	<i>Elatine americana</i>	American Waterwort			S1		2	83.5 ± 1.5	NS
P	<i>Astragalus robbinsii</i>	Robbins' Milkvetch			S1		2	20.2 ± 0.2	NS
P	<i>Astragalus robbinsii</i> var. <i>minor</i>	Robbins' Milkvetch			S1		35	20.1 ± 0.6	NS
P	<i>Ribes americanum</i>	Wild Black Currant			S1		13	44.1 ± 1.0	NS
P	<i>Utricularia ochroleuca</i>	Yellowish-white Bladderwort			S1		38	95.8 ± 0.01	NS
P	<i>Fraxinus pennsylvanica</i>	Red Ash			S1		17	15.6 ± 1.0	NS
P	<i>Polygonum achoreum</i>	Leathery Knotweed			S1		2	63.1 ± 10.0	NS
P	<i>Phytolacca americana</i>	Common Pokeweed			S1		4	11.0 ± 0.2	NS
P	<i>Podostemum ceratophyllum</i>	Horn-leaved Riverweed			S1		4	56.4 ± 0.25	NS
P	<i>Montia fontana</i>	Water Blinks			S1		2	24.4 ± 0.5	NS
P	<i>Lysimachia minima</i>	Chaffweed			S1		1	90.9 ± 0.01	NS
P	<i>Lysimachia quadrifolia</i>	Whorled Yellow Loosestrife			S1		2	76.1 ± 0.01	NS
P	<i>Anemone paviflora</i>	Small-flowered Anemone			S1		13	81.0 ± 0.5	NS
P	<i>Clematis occidentalis</i>	Purple Clematis			S1		15	54.0 ± 0.2	NB
P	<i>Ranunculus pensylvanicus</i>	Pennsylvania Buttercup			S1		26	63.7 ± 0.1	NB
P	<i>Thalictrum confine</i>	Northern Meadow-rue			S1		2	63.6 ± 5.0	NS
P	<i>Amelanchier nantucketensis</i>	Nantucket Serviceberry			S1		1	44.3 ± 1.0	NS
P	<i>Salix myrtilifolia</i>	Blueberry Willow			S1		26	81.5 ± 0.05	NB
P	<i>Agalinis tenuifolia</i>	Slender Agalinis			S1		1	31.1 ± 0.2	NB
P	<i>Scrophularia lanceolata</i>	Lance-leaved Figwort			S1		5	24.5 ± 1.0	NS
P	<i>Carex digitalis</i>	Slender Wood Sedge			S1		6	65.9 ± 0.2	NS
P	<i>Carex granularis</i>	Limestone Meadow Sedge			S1		1	94.8 ± 5.0	NB
P	<i>Carex laxiflora</i>	Loose-Flowered Sedge			S1		6	13.8 ± 7.07	NS
P	<i>Carex ormostachya</i>	Necklace Spike Sedge			S1		7	13.4 ± 5.0	NS
P	<i>Carex plantaginea</i>	Plantain-Leaved Sedge			S1		9	54.3 ± 0.2	NB
P	<i>Carex prairea</i>	Prairie Sedge			S1		2	10.5 ± 1.0	NS
P	<i>Carex tenuiflora</i>	Sparse-Flowered Sedge			S1		1	97.0 ± 10.0	NB
P	<i>Carex tincta</i>	Tinged Sedge			S1		5	56.7 ± 0.2	NS
P	<i>Carex viridula</i> var. <i>saxillitoralis</i>	Greenish Sedge			S1		1	18.6 ± 0.2	NS
P	<i>Carex grisea</i>	Inflated Narrow-leaved Sedge			S1		1	95.0 ± 5.0	NB
P	<i>Eleocharis erythropoda</i>	Red-stemmed Spikerush			S1		2	95.1 ± 0.01	NB
P	<i>Fimbristylis autumnalis</i>	Slender Fimbry			S1		3	98.4 ± 0.01	NS
P	<i>Scirpus atrovirens</i>	Dark-green Bulrush			S1		3	52.8 ± 0.03	NS
P	<i>Schoenoplectus torreyi</i>	Torrey's Bulrush			S1		8	73.0 ± 0.01	NS
P	<i>Iris prismatica</i>	Slender Blue Flag			S1		1	15.1 ± 100.0	NS
P	<i>Sisyrinchium fuscatum</i>	Coastal Plain Blue-eyed-grass			S1		5	71.4 ± 0.1	NS
P	<i>Juncus secundus</i>	Secund Rush			S1		3	7.9 ± 0.1	NS
P	<i>Juncus vaseyi</i>	Vasey Rush			S1		6	64.2 ± 0.01	NB
P	<i>Trillium grandiflorum</i>	White Trillium			S1		3	10.6 ± 1.0	NS
P	<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	North American White Adder's-mouth			S1		7	27.3 ± 10.0	NS
P	<i>Spiranthes casei</i> var. <i>casei</i>	Case's Ladies'-Tresses			S1		2	32.1 ± 0.1	NS
P	<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i>	Slim-stemmed Reed Grass			S1		1	98.5 ± 1.0	NB
P	<i>Dichanthelium xanthophyllum</i>	Slender Panic Grass			S1		10	75.1 ± 0.01	NS
P	<i>Elymus hystrix</i>	Spreading Wild Rye			S1		10	54.1 ± 0.01	NS
P	<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale False Manna Grass			S1		2	20.2 ± 1.5	NS
P	<i>Grapphephorum melicoides</i>	Purple False Oats			S1		4	55.3 ± 0.01	NB
P	<i>Adiantum pedatum</i>	Northern Maidenhair Fern			S1		23	15.1 ± 100.0	NS

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P	<i>Equisetum palustre</i>	Marsh Horsetail			S1		3	14.5 ± 5.0	NS
P	<i>Selaginella rupestris</i>	Rock Spikemoss			S1		11	52.1 ± 0.01	NS
P	<i>Suaeda rotundifolia</i>	Roland's Sea-Blite			S1?		19	31.7 ± 0.25	NS
P	<i>Carex pennsylvanica</i>	Pennsylvania Sedge			S1?		3	49.1 ± 0.2	NS
P	<i>Carex rostrata</i>	Narrow-leaved Beaked Sedge			S1?		1	69.3 ± 0.01	NB
P	<i>Bolboschoenus robustus</i>	Sturdy Bulrush			S1?		1	74.2 ± 5.0	NS
P	<i>Juncus antheratus</i>	Greater Poverty Rush			S1?		1	41.4 ± 0.01	NS
P	<i>Allium schoenoprasum</i>	Wild Chives			S1?		12	10.5 ± 0.2	NS
P	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives			S1?		3	77.2 ± 1.5	NB
P	<i>Panicum dichotomiflorum</i> ssp. <i>puritanorum</i>	Spreading Panicgrass			S1?		5	92.0 ± 0.01	NS
P	<i>Huperzia selago</i>	Northern Firmoss			S1?		1	29.5 ± 1.0	NS
P	<i>Orocanthium canadense</i>	Long-branched Frostweed			S1S2		154	18.0 ± 0.2	NS
P	<i>Cypripedium arietinum</i>	Ram's-Head Lady's-Slipper	Endangered		S1S2		313	44.8 ± 0.01	NS
P	<i>Sanicula odorata</i>	Clustered Sanicle	Endangered		S1S2		10	54.1 ± 0.01	NS
P	<i>Ageratina altissima</i>	White Snakeroot			S1S2		61	21.4 ± 0.01	NS
P	<i>Draba glabella</i>	Rock Whitlow-Grass			S1S2		8	20.1 ± 0.25	NS
P	<i>Proserpinaca intermedia</i>	Intermediate Mermalweed			S1S2		1	23.5 ± 2.0	NS
P	<i>Carex haydenii</i>	Hayden's Sedge			S1S2		8	18.6 ± 1.0	NS
P	<i>Platanthera huronensis</i>	Fragrant Green Orchid			S1S2		10	29.9 ± 10.0	NS
P	<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass			S1S2		11	59.2 ± 7.07	NS
P	<i>Woodсия alpina</i>	Alpine Cliff Fern			S1S2		6	58.9 ± 0.2	NB
P	<i>Selaginella selaginoides</i>	Low Spikemoss			S1S2		8	54.0 ± 0.4	NB
P	<i>Carex vacillans</i>	Estuarine Sedge			S1S3		3	85.7 ± 0.01	NB
P	<i>Zizia aurea</i>	Golden Alexanders			S2		8	54.9 ± 0.01	NS
P	<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's Pussytoes			S2		41	28.3 ± 0.1	NS
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower			S2		36	4.8 ± 7.07	NS
P	<i>Solidago multiradiata</i>	Multi-rayed Goldenrod			S2		22	80.9 ± 0.5	NB
P	<i>Arabis pycnocarpa</i>	Cream-flowered Rockcress			S2		12	29.8 ± 0.1	NS
P	<i>Cardamine maxima</i>	Large Toothwort			S2		26	21.6 ± 0.01	NS
P	<i>Hudsonia ericoides</i>	Pinebarren Golden Heather			S2		193	6.1 ± 1.0	NS
P	<i>Desmodium canadense</i>	Canada Tick-trefoil			S2		11	21.2 ± 7.07	NS
P	<i>Hylodesmum glutinosum</i>	Large Tick-trefoil			S2		42	4.8 ± 7.07	NS
P	<i>Oxytropis campestris</i> var. <i>johannensis</i>	Field Locoweed			S2		30	20.1 ± 0.6	NS
P	<i>Conopholis americana</i>	American Cancer-root			S2		118	1.7 ± 0.2	NS
P	<i>Anemonastrum canadense</i>	Canada Anemone			S2		16	24.2 ± 1.5	NS
P	<i>Hepatica americana</i>	Round-lobed Hepatica			S2		67	18.6 ± 0.1	NS
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup			S2		20	54.6 ± 0.2	NS
P	<i>Galium boreale</i>	Northern Bedstraw			S2		14	27.3 ± 7.07	NS
P	<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop			S2		5	65.1 ± 0.2	NB
P	<i>Dicra palustris</i>	Eastern Leatherwood			S2		76	42.3 ± 0.2	NS
P	<i>Carex chordorrhiza</i>	Creeping Sedge			S2		50	62.2 ± 0.01	NB
P	<i>Carex pellita</i>	Woolly Sedge			S2		1	97.7 ± 1.0	NB
P	<i>Carex livida</i>	Livid Sedge			S2		27	44.8 ± 10.0	NS
P	<i>Juncus greenii</i>	Greene's Rush			S2		4	74.0 ± 0.01	NS
P	<i>Juncus alpinoarticulatus</i> ssp. <i>americanus</i>	Northern Green Rush			S2		2	61.8 ± 0.02	NB
P	<i>Allium tricoccum</i>	Wild Leek			S2		144	7.1 ± 0.01	NS
P	<i>Lilium canadense</i>	Canada Lily			S2		63	4.8 ± 7.07	NS
P	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper			S2		30	6.4 ± 5.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper			S2		13	5.5 ± 5.0	NS
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper			S2		34	56.4 ± 0.1	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity	Rank	# recs	Distance (km)	Prov
P	<i>Plantanthera flava</i> var. <i>flava</i>	Southern Rein Orchid			S2	S2		15	26.7 ± 7.07	NS
P	<i>herbiola</i>	Pale Green Orchid			S2	S2		22	25.0 ± 0.5	NS
P	<i>Plantanthera macrophylla</i>	Large Round-Leaved Orchid			S2	S2		19	41.4 ± 1.0	NS
P	<i>Bromus latiglumis</i>	Broad-Glumed Brome			S2	S2		5	91.1 ± 0.01	NS
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass			S2	S2		41	9.9 ± 0.01	NS
P	<i>Elymus wiegandii</i>	Wiegand's Wild Rye			S2	S2		7	81.2 ± 0.01	NS
P	<i>Festuca subverticillata</i>	Nodding Fescue			S2	S2		15	26.7 ± 7.07	NB
P	<i>Piptatheropsis purgens</i>	Slender Ricegrass			S2	S2		17	21.8 ± 0.0	NS
P	<i>Cryptogramma stelleri</i>	Steller's Rockbrake			S2	S2		6	44.8 ± 0.25	NS
P	<i>Cuscuta cephalanthi</i>	Buttobush Dodder			S2?	S2?		2	74.5 ± 0.25	NS
P	<i>Rumex persicarioides</i>	Peach-leaved Dock			S2?	S2?		1	71.0 ± 0.01	NS
P	<i>Crataegus submollis</i>	Quebec Hawthorn			S2?	S2?		6	51.7 ± 1.0	NS
P	<i>Carex peckii</i>	White-Tinged Sedge			S2?	S2?		6	53.5 ± 5.0	NS
P	<i>Thuja occidentalis</i>	Eastern White Cedar			S2S3	S2S3		307	5.8 ± 0.2	NS
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely			S2S3	S2S3		19	21.3 ± 0.5	NS
P	<i>Bidens hyperborea</i>	Estuary Beggaricks			S2S3	S2S3		2	99.0 ± 0.05	NS
P	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane			S2S3	S2S3		10	29.6 ± 0.5	NS
P	<i>Eutrochium dubium</i>	Coastal Plain Joe Pye Weed			S2S3	S2S3		2	93.2 ± 0.05	NS
P	<i>Lactuca hirsuta</i>	Hairy Lettuce			S2S3	S2S3		5	24.6 ± 2.5	NS
P	<i>Impatiens pallida</i>	Pale Jewelweed			S2S3	S2S3		13	7.2 ± 7.07	NS
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh			S2S3	S2S3		87	7.1 ± 1.3	NS
P	<i>Draba arabisans</i>	Rock Whitlow-Grass			S2S3	S2S3		42	20.1 ± 0.5	NS
P	<i>Boechera stricta</i>	Drummond's Rockcress			S2S3	S2S3		22	25.6 ± 1.0	NS
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort			S2S3	S2S3		15	21.3 ± 1.0	NS
P	<i>Hypericum majus</i>	Large St John's-wort			S2S3	S2S3		17	61.9 ± 0.01	NS
P	<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort			S2S3	S2S3		10	84.3 ± 0.1	NS
P	<i>Empetrum atropurpureum</i>	Purple Crowberry			S2S3	S2S3		1	84.7 ± 7.07	NS
P	<i>Euphorbia polygonifolia</i>	Seaside Spurge			S2S3	S2S3		2	79.2 ± 3.0	NS
P	<i>Myriophyllum tanvillii</i>	Farwell's Water Milfoil			S2S3	S2S3		12	46.8 ± 1.0	NS
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal			S2S3	S2S3		21	6.2 ± 1.0	NS
P	<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose			S2S3	S2S3		6	25.2 ± 0.05	NS
P	<i>Polygala polygama</i>	Racemed Milkwort			S2S3	S2S3		38	13.7 ± 0.2	NS
P	<i>Polygonum aviculare</i> ssp. <i>buxiforme</i>	Box Knotweed			S2S3	S2S3		8	24.3 ± 1.0	NS
P	<i>Polygonum oxyspermum</i> ssp. <i>raii</i>	Ray's Knotweed			S2S3	S2S3		1	73.2 ± 1.0	NS
P	<i>Rumex trianguilvalvis</i>	Triangular-valve Dock			S2S3	S2S3		13	15.0 ± 1.0	NS
P	<i>Anemone quinquefolia</i>	Wood Anemone			S2S3	S2S3		49	35.7 ± 0.01	NS
P	<i>Caltha palustris</i>	Yellow Marsh Marigold			S2S3	S2S3		36	5.6 ± 0.2	NS
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry			S2S3	S2S3		3	73.6 ± 7.07	NS
P	<i>Potentilla canadensis</i>	Canada Cinquefoil			S2S3	S2S3		18	64.5 ± 0.02	NB
P	<i>Galium obtusum</i>	Blunt-leaved Bedstraw			S2S3	S2S3		6	40.8 ± 0.01	NS
P	<i>Salix pellita</i>	Saltiny Willow			S2S3	S2S3		6	31.2 ± 7.07	NS
P	<i>Tiarella stolonifera</i>	Stoloniferous Foamflower			S2S3	S2S3		42	5.9 ± 0.01	NS
P	<i>Agalinis purpurea</i> var. <i>parviflora</i>	Small-flowered Purple False Foxglove			S2S3	S2S3		5	75.8 ± 0.2	NS
P	<i>Boehmeria cylindrica</i>	Small-spoke False-nettle			S2S3	S2S3		61	26.7 ± 0.2	NS
P	<i>Carex adusta</i>	Lesser Brown Sedge			S2S3	S2S3		7	49.5 ± 0.01	NS
P	<i>Carex capillaris</i>	Hairlike Sedge			S2S3	S2S3		21	20.2 ± 0.2	NS
P	<i>Carex comosa</i>	Bearded Sedge			S2S3	S2S3		19	12.7 ± 1.0	NS
P	<i>Carex houghtoniana</i>	Houghton's Sedge			S2S3	S2S3		18	54.1 ± 0.2	NS
P	<i>Carex hystericina</i>	Porcupine Sedge			S2S3	S2S3		11	7.6 ± 1.5	NS
P	<i>Carex scirpoides</i>	Scirpuslike Sedge			S2S3	S2S3		6	82.6 ± 0.01	NB
P	<i>Eleocharis ovata</i>	Ovate Spikerush			S2S3	S2S3		18	20.9 ± 0.16	NB
P	<i>Scirpus pedicellatus</i>	Stalked Bulrush			S2S3	S2S3		5	97.0 ± 0.1	NB
P	<i>Vallisneria americana</i>	Wild Celery			S2S3	S2S3		18	64.8 ± 0.01	NB

Vulnerable

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity	Rank	# recs	Distance (km)	Prov
P	<i>Najas gracillima</i>	Thread-Like Naiad			S2S3			21	62.6 ± 0.45	NS
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain			S2S3			119	16.8 ± 0.2	NS
P	<i>Spiranthes casei</i>	Case's Ladies'-Tresses			S2S3			2	87.1 ± 0.01	NS
P	<i>Spiranthes casei</i> var. <i>novaescotiae</i>	Case's Ladies'-Tresses			S2S3			4	41.3 ± 0.5	NS
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses			S2S3			13	22.0 ± 0.75	NS
P	<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass			S2S3			10	59.9 ± 0.01	NB
P	<i>Potamogeton friesii</i>	Fries' Pondweed			S2S3			11	11.3 ± 2.0	NS
P	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern			S2S3			1	80.9 ± 1.0	NB
P	<i>Woodsia glabella</i>	Smooth Cliff Fern			S2S3			69	48.3 ± 1.0	NS
P	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort			S2S3			21	16.9 ± 0.1	NS
P	<i>Botrychium simplex</i>	Least Moonwort			S2S3			5	20.1 ± 1.0	NS
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue			S2S3			10	26.6 ± 0.1	NS
P	<i>Potamogeton pulcher</i>	Spotted Pondweed			S3			24	62.9 ± 0.2	NS
P	<i>Conioselinum chinense</i>	Chinese Hemlock-parsley			S3			26	20.1 ± 0.5	NS
P	<i>Hieracium robinsonii</i>	Robinson's Hawkweed			S3			16	58.8 ± 0.5	NB
P	<i>Iva frutescens</i>	Big-leaved Marsh-elder			S3			95	15.2 ± 0.2	NS
P	<i>Senecio pseudoarnica</i>	Seabeach Ragwort			S3			2	83.5 ± 0.2	NS
P	<i>Symphytotrichum boreale</i>	Boreal Aster			S3			6	27.5 ± 7.07	NS
P	<i>Symphytotrichum ciliolatum</i>	Fringed Blue Aster			S3			49	15.1 ± 0.2	NS
P	<i>Symphytotrichum undulatum</i>	Wavy-leaved Aster			S3			169	34.1 ± 1.0	NS
P	<i>Alnus serrulata</i>	Smooth Alder			S3			697	70.8 ± 0.01	NS
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch			S3			63	75.9 ± 0.5	NS
P	<i>Betula pumila</i>	Bog Birch			S3			1	64.8 ± 1.0	NS
P	<i>Cardamine parviflora</i>	Small-flowered Bittercress			S3			16	19.0 ± 7.07	NS
P	<i>Palustricodon aparinoides</i>	Marsh Bellflower			S3			22	18.8 ± 1.0	NS
P	<i>Mononeuria groenlandica</i>	Greenland Stitchwort			S3			234	74.3 ± 0.01	NS
P	<i>Sagina nodosa</i>	Knotted Pearlwort			S3			22	87.8 ± 3.0	NS
P	<i>Stellaria longifolia</i>	Long-leaved Starwort			S3			7	56.1 ± 0.01	NB
P	<i>Ceratophyllum echinatum</i>	Prickly Hornwort			S3			27	18.3 ± 3.0	NS
P	<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed			S3			39	53.0 ± 0.01	NS
P	<i>Viburnum edule</i>	Squashberry			S3			14	58.9 ± 1.0	NB
P	<i>Crassula aquatica</i>	Water Pygmyweed			S3			1	92.2 ± 0.1	NS
P	<i>Empetrum narnesii</i>	Pink Crowberry			S3			8	74.0 ± 0.01	NS
P	<i>Halenia deflexa</i>	Spurred Gentian			S3			4	98.3 ± 0.01	NS
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill			S3			39	10.6 ± 2.0	NS
P	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil			S3			19	56.6 ± 3.0	NS
P	<i>Utricularia resupinata</i>	Inverted Bladderwort			S3			13	74.6 ± 0.01	NS
P	<i>Epilobium densum</i>	Downy Willowherb			S3			29	11.2 ± 3.0	NS
P	<i>Polygala sanguinea</i>	Blood Milkwort			S3			50	9.0 ± 0.3	NS
P	<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb			S3			79	9.3 ± 0.01	NS
P	<i>Plantago rugelii</i>	Rugel's Plantain			S3			11	5.8 ± 0.01	NS
P	<i>Primula laurentiana</i>	Laurentian Primrose			S3			74	6.6 ± 0.2	NS
P	<i>Samolus parviflorus</i>	Seaside Brookweed			S3			49	84.3 ± 0.01	NS
P	<i>Pyrola minor</i>	Lesser Pyrola			S3			6	7.2 ± 7.07	NS
P	<i>Anemone virginiana</i>	Virginia Anemone			S3			14	47.0 ± 0.05	NS
P	<i>Cephalanthus occidentalis</i>	Common Buttonbush			S3			1920	78.9 ± 0.01	NS
P	<i>Salix pedicellaris</i>	Bog Willow			S3			90	7.6 ± 0.5	NS
P	<i>Salix sericea</i>	Silky Willow			S3			143	37.6 ± 0.01	NS
P	<i>Saxifraga paniculata</i> ssp. <i>laestadii</i>	Laestadius' Saxifrage			S3			45	20.1 ± 0.5	NS
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimpernel			S3			36	7.9 ± 1.0	NS
P	<i>Laportea canadensis</i>	Canada Wood Nettle			S3			52	8.0 ± 0.2	NS
P	<i>Pilea pumila</i>	Dwarf Clearweed			S3			17	39.3 ± 0.2	NS
P	<i>Viola nephrophylla</i>	Northern Bog Violet			S3			14	27.0 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Carex bebbii</i>	Bebb's Sedge			S3		23	47.3 ± 0.01	NS
P	<i>Carex castanea</i>	Chestnut Sedge			S3		1	58.0 ± 0.01	NS
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge			S3		29	49.0 ± 0.31	NS
P	<i>Carex eburnea</i>	Bristle-leaved Sedge			S3		25	59.1 ± 0.2	NB
P	<i>Carex hirtifolia</i>	Pubescent Sedge			S3		26	53.6 ± 0.05	NS
P	<i>Carex lupulina</i>	Hop Sedge			S3		75	7.2 ± 1.5	NS
P	<i>Carex rosea</i>	Rosy Sedge			S3		57	1.8 ± 0.2	NS
P	<i>Carex swanii</i>	Swan's Sedge			S3		26	15.7 ± 2.0	NS
P	<i>Carex tenera</i>	Tender Sedge			S3		12	40.1 ± 0.01	NS
P	<i>Carex tribuloides</i>	Blunt Broom Sedge			S3		22	21.4 ± 1.0	NS
P	<i>Carex tuckermanni</i>	Tuckerman's Sedge			S3		50	48.2 ± 0.01	NS
P	<i>Carex atratiformis</i>	Scabrous Black Sedge			S3		3	47.3 ± 0.1	NS
P	<i>Eleocharis nitida</i>	Quill Spikerush			S3		21	9.3 ± 5.0	NS
P	<i>Eleocharis flavescens</i> var. <i>olivacea</i>	Bright-green Spikerush			S3		16	61.9 ± 0.1	NS
P	<i>Eriophorum gracile</i>	Slender Cottongrass			S3		38	17.9 ± 0.1	NS
P	<i>Juncus stygius</i> ssp. <i>americanus</i>	Moor Rush			S3		76	96.1 ± 0.01	NS
P	<i>Coeloglossum viride</i>	Long-bracted Frog Orchid			S3		21	5.8 ± 0.01	NS
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper			S3		593	9.3 ± 7.07	NS
P	<i>Neottia bifolia</i>	Southern Twayblade			S3		173	16.4 ± 0.01	NS
P	<i>Platanthera flava</i>	Southern Rein-Orchid			S3		35	65.2 ± 0.01	NS
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid			S3		65	8.1 ± 1.0	NS
P	<i>Platanthera hookeri</i>	Hooker's Orchid			S3		40	8.1 ± 1.0	NS
P	<i>Dichantherium linearifolium</i>	Narrow-leaved Panic Grass			S3		16	9.9 ± 1.0	NS
P	<i>Piptatheropsis canadensis</i>	Canada Ricegrass			S3		14	57.4 ± 0.01	NS
P	<i>Poa glauca</i>	Glaucous Blue Grass			S3		25	27.1 ± 0.1	NS
P	<i>Stuckenia filiformis</i>	Thread-leaved Pondweed			S3		1	82.9 ± 7.07	NS
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed			S3		9	15.5 ± 1.0	NS
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed			S3		7	7.2 ± 1.0	NS
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed			S3		16	12.3 ± 1.0	NS
P	<i>Asplenium viride</i>	Green Spleenwort			S3		20	47.0 ± 5.0	NS
P	<i>Dryopteris fragrans</i>	Fragrant Wood Fern			S3		79	30.8 ± 0.01	NS
P	<i>Sceptridium dissectum</i>	Dissected Moonwort			S3		8	26.8 ± 1.0	NS
P	<i>Polypodium appalachianum</i>	Appalachian Polypody			S3		49	17.9 ± 2.5	NS
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed			S3?		27	49.3 ± 0.01	NS
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses			S3?		64	16.8 ± 7.07	NS
P	<i>Diphasiastrum x sabinifolium</i>	Savin-leaved Ground-cedar			S3?		19	36.7 ± 0.25	NS
P	<i>Bidens vulgata</i>	Tall Beggarticks			S3S4		4	21.1 ± 0.2	NS
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane			S3S4		135	50.0 ± 1.0	NS
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed			S3S4		52	1.3 ± 0.2	NS
P	<i>Bidens beckii</i>	Water Beggarticks			S3S4		37	63.1 ± 0.01	NB
P	<i>Packera paupercula</i>	Balsam Groundsel			S3S4		107	49.0 ± 0.41	NS
P	<i>Atriplex glabriuscula</i> var. <i>franklinii</i>	Frankton's Saltbush			S3S4		18	8.7 ± 0.01	NS
P	<i>Shepherdia canadensis</i>	Soapberry			S3S4		162	24.3 ± 0.54	NS
P	<i>Vaccinium boreale</i>	Northern Blueberry			S3S4		3	41.6 ± 0.5	NS
P	<i>Vaccinium cespitosum</i>	Dwarf Bilberry			S3S4		106	20.7 ± 6.0	NS
P	<i>Vaccinium corymbosum</i>	Highbush Blueberry			S3S4		14	15.7 ± 0.2	NS
P	<i>Fagus grandifolia</i>	American Beech			S3S4		1294	0.5 ± 0.2	NS
P	<i>Bartonia virginica</i>	Yellow Bartonia			S3S4		19	57.0 ± 0.2	NS
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed			S3S4		65	42.0 ± 5.0	NS
P	<i>Decodon verticillatus</i>	Swamp Loosestrife			S3S4		85	49.3 ± 0.2	NS
P	<i>Nuphar microphylla</i>	Small Yellow Pond-lily			S3S4		12	60.9 ± 0.01	NS
P	<i>Persicaria pennsylvanica</i>	Pennsylvania Smartweed			S3S4		45	7.9 ± 0.1	NS
P	<i>Fallopia scandens</i>	Climbing False Buckwheat			S3S4		27	17.5 ± 5.0	NS
P	<i>Rumex palidus</i>	Seabeach Dock			S3S4		5	24.6 ± 0.6	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Pyrola asarifolia</i>	Pink Pyrola			S3S4		19	29.5 ± 1.0	NS
P	<i>Endotropis alnifolia</i>	Alder-leaved Buckthorn			S3S4		172	9.2 ± 0.3	NS
P	<i>Amelanchier spicata</i>	Running Serviceberry			S3S4		71	9.9 ± 2.5	NS
P	<i>Crataegus succulenta</i>	Fleshy Hawthorn			S3S4		1	92.2 ± 0.01	NS
P	<i>Fragaria vesca</i> ssp. <i>americana</i>	Woodland Strawberry			S3S4		62	20.6 ± 0.01	NS
P	<i>Fragaria vesca</i>	Woodland Strawberry			S3S4		1	66.6 ± 0.5	NB
P	<i>Galium aparine</i>	Common Bedstraw			S3S4		26	7.6 ± 2.0	NS
P	<i>Geocalium lividum</i>	Northern Comandra			S3S4		10	20.4 ± 1.5	NS
P	<i>Limosella australis</i>	Southern Mudwort			S3S4		11	78.3 ± 1.0	NS
P	<i>Ulmus americana</i>	White Elm			S3S4		182	6.2 ± 0.2	NS
P	<i>Verbena hastata</i>	Blue Vervain			S3S4		188	7.2 ± 0.01	NS
P	<i>Viola sagittata</i> var. <i>ovata</i>	Arrow-Leaved Violet			S3S4		77	8.1 ± 5.0	NS
P	<i>Viola selkirkii</i>	Great-Spurred Violet			S3S4		17	29.5 ± 1.0	NS
P	<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage			S3S4		90	75.8 ± 0.2	NS
P	<i>Carex argyrantha</i>	Silvery-flowered Sedge			S3S4		28	5.5 ± 50.0	NS
P	<i>Sisyrinchium atlanticum</i>	Eastern Blue-Eyed-Grass			S3S4		108	64.3 ± 5.0	NS
P	<i>Triglochin gaspensis</i>	Gasp J _r Arrowgrass			S3S4		16	32.4 ± 0.6	NS
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush			S3S4		16	17.5 ± 2.0	NS
P	<i>Juncus subcaudatus</i>	Woods-Rush			S3S4		16	22.8 ± 0.2	NS
P	<i>Luzula parviflora</i>	Small-flowered Woodrush			S3S4		1	35.3 ± 0.6	NS
P	<i>melanocarpa</i>	Black-fruited Woodrush			S3S4		14	21.5 ± 5.0	NS
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain			S3S4		35	21.9 ± 1.0	NS
P	<i>Liparis loeselii</i>	Loesel's Twayblade			S3S4		11	23.9 ± 5.0	NS
P	<i>Platanthera obtusata</i>	Blunt-leaved Orchid			S3S4		18	21.2 ± 10.0	NS
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid			S3S4		59	48.1 ± 5.0	NS
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail			S3S4		21	23.4 ± 0.01	NS
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass			S3S4		307	25.9 ± 0.01	NS
P	<i>Coleataenia longifolia</i>	Long-leaved Panicgrass			S3S4		1585	74.5 ± 0.01	NS
P	<i>Panicum philadelphicum</i>	Philadelphia Panicgrass			S3S4		33	24.7 ± 0.01	NS
P	<i>Koeleria spicata</i>	Narrow False Oats			S3S4		28	20.1 ± 0.5	NS
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort			S3S4		32	13.6 ± 0.01	NS
P	<i>Lorinseria areolata</i>	Netted Chain Fern			S3S4		1	99.1 ± 7.07	NS
P	<i>Equisetum pratense</i>	Meadow Horsetail			S3S4		10	13.0 ± 1.0	NS
P	<i>Diphasiastrum complanatum</i>	Northern Ground-cedar			S3S4		30	18.8 ± 1.0	NS
P	<i>Diphasiastrum sitchense</i>	Sitka Ground-cedar			S3S4		7	24.5 ± 1.0	NS
P	<i>Huperzia appressa</i>	Mountain Firmoss			S3S4		53	18.2 ± 1.0	NS
P	<i>Sceptridium multifidum</i>	Leathery Moonwort			S3S4		16	4.8 ± 10.0	NS
P	<i>Botrychium matricarifolium</i>	Daisy-leaved Moonwort			S3S4		15	28.5 ± 10.0	NS
P	<i>Bidens discordea</i>	Swamp Beggaricks			SH		1	93.0 ± 0.25	NS
P	<i>Viola canadensis</i>	Canada Violet			SH		1	48.9 ± 0.75	NS
P	<i>Greeneochloa coarctata</i>	Small Reedgrass			SH		1	97.9 ± 6.0	NS
P	<i>Dichanthelium meridionale</i>	Matting Witchgrass			SH		1	99.1 ± 10.0	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.

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35		East Coast Aquatics Inc. 2021. Species at Risk records from Spicer North Mountain Quarry Expansion Environmental Assessment. East Coast Aquatics, 44 records.
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35		McCallum Environmental Ltd. 2022. Walden Quarry Expansion EASAR survey. McCallum Environmental Ltd, 35 records.
35		Mersey Tobetic Research Institute. 2021. 2020 Monarch records from the MTRI monitoring program. Mersey Tobetic Research Institute, 72 records.
34		Blaney, C.S. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 1042 recs.
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29		Frittaloni, C. 2012. NSNT 2012 Field Observations. Nova Scotia Nature Trust, Pers comm. to S. Blaney Feb. 7, 34 recs.
29		Roland, A.E. 1980. Checklist of Vascular Plants of Kejimikujik National Park in Lichens, Liverworts, Mosses and Flowering Plants of Kejimikujik National Park. Roland, A.E. (ed.) Parks Canada Report, pp. 52-140, 160 pp.
29		Spicer, C.D. & Harries, H. 2001. Mount Allison Herbarium Specimens. Mount Allison University, 128 recs.
28		Benedict, B. Connell Herbarium Specimen Database Download 2004. Connell Memorial Herbarium. University of New Brunswick, 2004.
28		Blaney, C.S.; Mazerolle, D.M.; Kymko, J.; Spicer, C.D. 2006. Fieldwork 2006. Atlantic Canada Conservation Data Centre. Sackville NB, 8399 recs.
28		Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia. , 181 records.
28		Riley, Jonathan. 2024. Species of Conservation Concern records from Goldsmith Lake between 2023 and 2024. Pers. comm., 32 records.
27		Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
27		Manthorne, A. 2019. Incidental aerial insectivore observations. Birds Canada.
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26		Hall, R.A. 2001. S. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
26		McLean, K. 2020. Wood Turtle observations . Clean Annapolis River Project.
25		Burnie, B. 2013. 2013 Scirpus longii field data. Mount Saint Vincent University, 51 recs.
24		Belliveau, A.G. 2021. New Black ash site records near Kentville, NS. Acadia University, 47 records.
24		Broders, H.G. 2006. Unpublished data. , 24 recs.
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24		Riley, Jonathan. 2025. SAR at Goldsmith and Corbett Lakes. Pers. comm., 17 records.
23		Aiden Isbill. 2023. Atlantic Salmon Field Survey - Black River NB. ACAP Saint John.
23		McLean, K. 2019. Species At Risk observations. Clean Annapolis River Project.
23		Porter, C.J.M. 2014. Field work data 2007-2014. Nova Scotia Nature Trust, 96 recs.
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22		Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
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21		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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21		McNeil, J.A. 2019. Snapping Turtle records, 2017. Mersey Tobetic Research Institute.
21		Nelly, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobetic Research Institute.
20		Benjamin, L.K. 2011. NSDNR fieldwork & consultant reports 1997, 2009-10. Nova Scotia Dept Natural Resources, 85 recs.
20		Blaney, C.S.; Mazerolle, D.M. 2011. Fieldwork 2011. Atlantic Canada Conservation Data Centre. Sackville NB.
20		Bryson, I. 2020. Nova Scotia and Newfoundland rare species observations, 2018-2020. Nova Scotia Environment.
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20		O'Grady, Sally. 2010. Water Pennywort in Kejimikujik National Park, 2010. Parks Canada, 20 shapefiles.
20		Skomorowski, Joanna. 2024. 2022 Nova Scotia Nature Trust SAR occurrences. Nova Scotia Nature Trust, 58 records.

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19		Ogden, J. NS DNR Butterfly Collection Dataset. Nova Scotia Department of Natural Resources. 2014.
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19		Siemens-Worsley, Allison. 2024. iNaturalist Wood Turtle observations for New Brunswick and Nova Scotia. NatureServe Canada.
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		Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
18		Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J.; ONHIC, 487 recs.
18		Richardson, D., Anderson, F., Cameron, R., Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (<i>Pannaria lurida</i>). COSEWIC.
18		Toms, Brad. 2024. MTRI lichens database. Mersey Tobateic Research Institute, 170 records.
17		Anderson, Frances; Neily, Tom. 2010. A Reconnaissance Level Survey of Calophylous Lichens in Selected Karst Topography in Nova Scotia with Notes on Incidental Bryophytes. Mersey Tobateic Research Institute.
17		Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
17		Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
17		Epworth, W. 2013. Species at Risk records, 2013. Fort Folly Habitat Recovery Program, 27 recs.
17		Neily, T.H. 2013. Email communication to Sean Blaney regarding <i>Listera australis</i> observations made from 2007 to 2011 in Nova Scotia. , 50.
17		Ogden, K. Nova Scotia Museum butterfly specimen database. Nova Scotia Museum. 2017.
16		Hunsinger, J. 2021. Species at Risk records from Medway Community Forest Cooperative monitoring plots and baited game cameras, 2019-2020. Medway Community Forest Cooperative, 16 records.
16		Klymko, J.J.D. 2016. 2015 field data. Atlantic Canada Conservation Data Centre.
15		Askanas, H. 2016. New Brunswick Wood Turtle Database. New Brunswick Department of Energy and Resource Development.
15		Basquill, S.P. 2011 vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
15		Blaney, C.S.; Spicer, C.D.; Popma, T.M.; Hanel, C. 2002. Fieldwork 2002. Atlantic Canada Conservation Data Centre. Sackville NB, 2252 recs.
15		Brooks, Delaney. 2023. Port of Saint John Waterbird Survey since 2019. Nature NB.
15		English, M. 2024. Colonial Waterbird Database. Canadian Wildlife Service.
15		Hinds, H.R. 1986. Notes on New Brunswick plant collections. Connell Memorial Herbarium, unpubl, 739 recs.
15		Nature Conservancy of Canada. 2022. NCC Field data for Nova Scotia. Nature Conservancy of Canada.
15		Thomas, A.W. 1996. A preliminary atlas of the butterflies of New Brunswick. New Brunswick Museum.
14		Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources, 143 recs.
14		Chiasson, R. 2018. Breeding bird observations from NBWTF project. pers. comm. to S. Blaney.
14		Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service. Ottawa, 111 recs.
14		Kennedy, Joseph. 2010. New Brunswick Peregrine records, 2009. New Brunswick Dept Natural Resources, 19 recs (14 active).
14		McGrattan, Alysha. 2023. Monarch conservation in Southern New Brunswick. Nature NB.
14		McNeil, J.A. 2018. Snapping Turtle records. 2018. Mersey Tobateic Research Institute.
14		Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobateic Research Institute.
13		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.
13		Holder, M. 2003. Assessment and update status report on the Eastern <i>Lilaeopsis</i> (<i>Lilaeopsis chinensis</i>) in Canada. Committee on the Status of Endangered Wildlife in Canada, 16 recs.
13		Mackinnon, D.S. 1998. Pothook Lake survey map & notes. Dept of Environment and Labour, Protected Areas Branch, 13 recs.
13		Mersey Tobateic Research Institute. 2024. Barn swallow records from volunteers. Pers. comm., 16 records.
13		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.
13		Nova Scotia Nature Trust. 2014. Ladyship records from Saint Croix Nova Scotia, JLC Ed. Nova Scotia Nature Trust.
12		Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
12		Cassie, 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 Larriève, Sambo Zhang (ed.) e-butterfly.org.
12		Hill, N.M. 2021. Observation of <i>Carex haydenii</i> and black ash near Marshy Hope and Pothook Lake. pers. comm.
12		Klymko, J. 2019. Atlantic Canada Conservation Data Centre zoological fieldwork 2018. Atlantic Canada Conservation Data Centre.
12		McAlpine, D.F. 1983. Status & Conservation of Solution Caves in New Brunswick. New Brunswick Museum, Publications in Natural Science, no. 1, 28pp.
12		Wissink, R. 2000. Rare Plants of Fundy: maps. Parks Canada, 20 recs.
11		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.
11		Doucet, D.A. 2008. Fieldwork 2008: Odonata. ACCDC Staff, 625 recs.
11		Hinds, H.R. 1999. Connell Herbarium Database. University New Brunswick, Fredericton, 131 recs.
11		Mersey Tobateic Research Institute (MTRI). 2025. Herpiles Atlas records from 2024. Feltham, Carter (ed.) MTRI. Web site: 32 records.
11		Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
11		Pike, E., Tingley, S. & Christie, D.S. 2000. Nature NB Listserve. University of New Brunswick, listserv.unb.ca/archives/naturenb. 68 recs.
11		Riley, Jonathan. 2024. Tracked species observed at Goldsmith Lake peninsula in November 2024. Pers. comm., 12 records.
11		Sabine, D.L. <i>Bombus terricola</i> specimens in Dwayne Sabine's personal collection. pers. comm. 2022.
10		Anderson, Frances. 2025. SAR lichen records from Minamkeak Lake, 2022. Nova Scotia Department of Natural Resources and Renewables, 10 records.
10		Belliveau, A.G. & Vail, Cole. 2020. New Allium tricoccum locations, Cornwallis River. Chapman, C.J. (ed.) Acadia University.
10		Bredin, K.A. 2001. WTF Project: Freshwater Mussel Fieldwork in Freshwater Species data. Atlantic Canada Conservation Data Centre, 101 recs.
10		Haughian, S.R. 2018. Description of <i>Fuscopannaria leucosticta</i> field work in 2017. New Brunswick Museum, 314 recs.

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10		Klymko, J.J.D. 2012. Odonata specimens & observations. 2010. Atlantic Canada Conservation Data Centre. 425 recs.
10		Mersey Tobeatic Research Institute. 2024. 2024 Monarch and Blandings Turtle Data. Mersey Tobeatic Research Institute. 20 recs.
10		Neily, T. H. 2018. Lichen and Bryophyte records, AEI 2017-2018. Tom Neily; Atlantic Canada Conservation Data Centre.
10		Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust. 95 recs.
10		Parker, M.S.R. 2011. Hampton Wind Farm 2010: significant floral/faunal observations. , 13 recs.
10		Phinney, L. 2019. Little Brown Myotis maternal colony counts and birdSAR. 2019. Mersey Tobeatic Research Institute.
10		Phinney, Lori; Toms, Brad; et. al. 2016. Bank Swallows (<i>Riparia riparia</i>) in Nova Scotia: inventory and assessment of colonies. Mersset Tobeatic Research Institute. 25 recs.
10		Riley, Jonathan and Viola. Ashlea. Records of Species of Conservation Concern (lichens) near Goldsmith Lake on March 25, 2025. Riley, J., 17 records.
9		Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of C. insculpta sightings. Acadia University, Wolfville NS, 88 recs.
9		Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.
9		Blaxley, Megan; Vinson, Neil. 2020. <i>Peltigera hydrothyrta</i> records from a tributary of Lake Brook, Fundy National Park. Chapman-Lam, Collin J. (ed.) Fundy National Park. 9.
9		Brooks, Fiona. 2025. SAR lichens at Minamkeak Lake, Mitchell Brook, Little Salmon Falls and Dares Lake, NS from winter 2025. Atlantic Canada Conservation Data Centre, 81 records.
9		Cameron, R.P. 2013. 2013 rare species field data. Nova Scotia Department of Environment. 71 recs.
9		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.
9		Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.
9		Goltz, J.P. 2012. Field Notes, 1989-2005. , 1091 recs.
9		Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobeatic Research Institute, 668 recs.
9		Powell, B.C. 1967. Female sexual cycles of <i>Chrysemy spicata</i> & <i>Clemmys insculpta</i> in Nova Scotia. Can. Field-Nat., 81:134-139. 26 recs.
9		Toms, Brad. 2011. Species at Risk data from 2011 field surveys. Mersey Tobeatic Research Institute, 17 recs.
8		Amirault, D.L. & Stewart, J. 2007. Piping Plover Database 1894-2006. Canadian Wildlife Service, Sackville, 3344 recs, 1228 new.
8		Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
8		Hinds, H.R. 1992. Rare Vascular Plants of Fundy National Park. , 10 recs.
8		Holder, M.L.; Kingsley, A.L. 2000. Kingsley and Holder observations from 2000 field work.
8		King, Katie; Jean, Samuel. 2021. Black ash observations near Booklyn, NS. E.C. Smith Herbarium.
8		Klymko, J. Butterfly records at the Nova Scotia Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2017.
8		McAlpine, D.F. 1998. NBM Science Collections: Wood Turtle records. New Brunswick Museum, Saint John NB, 329 recs.
8		Neily, T.H. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
8		Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
8		Sabine, D.L. 2005. 2001 Freshwater Mussel Surveys. New Brunswick Dept of Natural Resources & Energy. 590 recs.
8		Speers, L. 2008. Butterflies of Canada database. New Brunswick 1897-1999. Agriculture & Agri-Food Canada, Biological Resources Program, Ottawa. 2048 recs.
8		Tingley, S. (compiler). 2001. Butterflies of New Brunswick. , Web site: www.geocities.com/Yosemite/8425/butterfly . 142 recs.
8		Wissink, R. 2006. Fundy National Park Digital Database. Parks Canada. 41 recs.
7		Boyne, A.W. & Grecian, V.D. 1999. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 23 recs.
7		Brooks, Fiona. 2025. <i>Peltigera hydrothyrta</i> records from Carter's Brook, NS in September 2024. Atlantic Canada Conservation Data Centre, 31 records.
7		Kennedy, B.; Cron, C. 2019. observations of Poison Sumac and Buttonbush, Nova Scotia. pers. commun to AC CDC.
7		Nature Conservancy of Canada. 2022-2023. NCC Data for NB 2022-2023. NCC. 318 recs.
6		Benjamin, L.K. 2006. <i>Cypripedium arietinum</i> . Pers. comm. to D. Mazerolle. 9 recs, 9 recs.
6		Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Aves, Orchid and other recent records. Nova Scotia Dept Natural Resources. 105 recs.
6		Blaney, C.S.; Spicer, C.D.; Mazerolle, D.M. 2005. Fieldwork 2005. Atlantic Canada Conservation Data Centre. Sackville NB, 2333 recs.
6		Brazner, J.; Hill, N. 2018. Plant observations along the Cornwallis River, Nova Scotia. Nova Scotia Department of Lands and Forestry.
6		Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centre. 30 recs.
6		Brooks, Fiona. 2025. Tracked species records from Corbett Lake and Goldsmith Lake in December 2024. Atlantic Canada Conservation Data Centre, 6 records.
6		Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
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		Doucet, D.A. 2007. Lepidopteran Records, 1988-2006. Doucet, 700 recs.
6		Kennedy, Joseph. 2010. New Brunswick Peregrine records, 2010. New Brunswick Dept Natural Resources, 16 recs (11 active).
6		Matthew Smith. 2010. Field trip report from Avon Caving Club outlining the discovery of <i>Cypripedium arietinum</i> and <i>Hepatica nobilis</i> populations. Public Works and Government Services Canada.
6		Newington, Nina. 2023. Email to James Churchill regarding a SAR Birds near Goldsmith Lake, Annapolis County, pers. comm.
6		Nova Scotia Nature Trust. 2022. Ram's Head Lady Slipper observations from 2015 and 2019. , 6 records.
6		Pohl, G.P. Specimen data from Northern Forest Research Centre. Northern Forest Research Centre. 2022.
6		Popma, T.M. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 113 recs.
6		Riley, Johnathan. 2023. Wissoq north of Kejimikujik National Park. Pers. comm. Municipality of the District of Digby, 6 records.
6		Strum Consulting. 2024. Colpton Quarry Expansion Environmental Assessment. Pers. comm., 9 records.
6		Voskort, L. <i>Bombus terreicola</i> specimens collected during MSc research in southwestern Nova Scotia. Acadia University. 2022.
5		Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
5		Cameron, R.P. 2009. <i>Erodium pedicellatum</i> database, 1979-2008. Dept Environment & Labour, 103 recs.
5		Carter, Jeff; Churchill, J.; Churchill, J. 2020. Bank Swallow colony Scots Bay, NS. Atlantic Canada Conservation Data Centre.
5		Gilhen, J. 1984. Amphibians & Reptiles of Nova Scotia, 1st Ed. Nova Scotia Museum, 164pp.

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5		Majka, C.G. & McCorquodale, D.B. 2006. The Coccinellidae (Coleoptera) of the Maritime Provinces of Canada: new records, biogeographic notes, and conservation concerns. <i>Zootaxa</i> , 1154: 49–68. 7 recs.
5		Nature Trust of New Brunswick. 2022. Nature Trust of New Brunswick 2022 staff and volunteer observations of species occurrence data. Nature Trust of New Brunswick.
5		Neily, T.H. Tom Neily NS Sphagnum records (2009-2014). T.H. Neily, Atlantic Canada Conservation Data Centre. 2019.
5		Robicheau, Charity. 2023. Field data from 2023. Atlantic Canada Conservation Data Centre, 14 records.
5		Speers, L. 2001. Butterflies of Canada database. Agriculture & Agri-Food Canada, Biological Resources Program, Ottawa, 190 recs.
5		Vail, Cole. 2023. 2023 Lichen Observations. C.Vail. 20 recs.
5		Whitman, R.M. 1999. Status Report on the Roseate Tern (update) in Canada. Committee on the Status of Endangered Wildlife in Canada, 36 recs.
4		Basset, L.J. & Crompton, C.W. 1978. The Genus <i>Suaeda</i> (Chenopodiaceae) in Canada. <i>Canadian Journal of Botany</i> , 56: 581-591.
4		Calder, D.R., J.S. Bleakney. 1967. Observations on Frenchman's Cave, Nova Scotia, and Its Fauna. <i>National Speleological Society Bulletin</i> , 29: 23-25.
4		Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 recs.
4		Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
4		Cameron, R.P. 2012. Additional rare plant records, 2009. 7 recs.
4		Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 84 recs.
4		Cody, W.J. 2003. Nova Scotia specimens of <i>Equisetum pratense</i> at the DAO herbarium in Ottawa. Pers. comm. to C.S. Blaney, 4 recs.
4		Forsythe, B. 2006. <i>Cypripedium arietinum</i> at Meadow Pond, Hants Co. Pers. comm. to C.S. Blaney, 4 recs, 4 recs.
4		Hennigar, Briana; Gow, Jonas. 2023. Bank Swallow Nesting Site in Waterville. The Jijuku kwejk Watershed Alliance.
4		Hughes, Cory. 2020. Atlantic Forestry Centre <i>Coccinella transversoguttata</i> collections. Canadian Forest Service, Atlantic Forestry Centre.
4		Klymko, J. 2021. Atlantic Canada Conservation Data Centre zoological fieldwork 2020. Atlantic Canada Conservation Data Centre.
4		Klymko, J.J.D. 2011. Insect fieldwork & submissions, 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 742 recs.
4		Klymko, J.J.D. 2012. Insect field work & submissions. Atlantic Canada Conservation Data Centre, 852 recs.
4		McKendry, Karen. 2016. Rare species observations, 2016. Nova Scotia Nature Trust, 19 recs.
4		McMullin, Troy. 2021. <i>Anzia colpodis</i> observations near Kejimikujik National Park. Canadian Museum of Nature.
4		Mills, Pamela. 2007. <i>iva frutescens</i> records. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to S. Basquill, 4 recs.
4		Newell, R. & Neily, T.; Toms, B.; Proulx, G. et al. 2011. NCC Properties Fieldwork in NS: August-September 2010. Nature Conservancy Canada, 106 recs.
4		Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro, 2003.
4		Phillips, B. 2017. Emails to John Klymko regarding Eastern Waterfowl (<i>Peltigera hydrothyrta</i>) occurrences in Fundy National Park. Fundy Biosphere Reserve, 3 recs.
4		Sollows, M.C. 2008. NBM Science Collections databases: herpetiles. New Brunswick Museum, Saint John NB, download Jan. 2008, 8636 recs.
4		Toms, B. 2015. <i>Lophiola aurea</i> (Goldencrest) records from Molega Lake. Mersey Tobateac Research Institute, 4 records.
4		Toms, B. 2016. Email list of four GPS locations of Golden Crest (<i>Lophiola aurea</i>) from the previously documented site on Molega Lake, NS. Mersey Tobateac Research Institute, 4 records.
4		Vost, Emma. 2023. Bird observations - 2023. Pers. Comm.
4		Wallace, Shaylyn. 2023. Painted Turtle and Snapping Turtle records since 2015. New Brunswick Department of Energy and Resource Development.
4		White, S. 2019. Notable species sightings. 2018. East Coast Aquatics.
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		Bateman, M.C. 2001. Coastal Waterfowl Surveys Database, 1965-2001. Canadian Wildlife Service, Sackville, 667 recs.
3		Bradford, R. 2004. Coregonus huntsman locations. Dept of Fisheries & Oceans, Atlantic Region, Pers. comm. to K. Bredin. 4 recs.
3		Brooks, Fiona. 2024. Black Foam Lichen Observations, Mahore Bay Park Cemetery. Atlantic Canada Conservation Data Centre, 3 recs.
3		Brooks, Fiona. 2024. SAR observations for Nova Scotia from June and July 2024. Atlantic Canada Conservation Data Centre, 106 records.
3		Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
3		Catling, P.M. 1981. Taxonomy of autumn-flowering <i>Spiranthes</i> species of southern Nova Scotia in Can. J. Bot. 59:1250-1273. 30 recs.
3		Chris Pepper. 2021-2022. Mersey Wind Farm Lichen Observations. Chris Pepper, 20 recs.
3		Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
3		Churchill, J.L., Klymko, J.J.D. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre.
3		Clayden, S.R. 2020. Email to Sean Blaney regarding <i>Ptilophorus cereus</i> and <i>P. fibula</i> at Fidele Lake area, Charlotte County, NB. pers. comm., 2 records.
3		Doubt, J. 2013. Email to Sean Blaney with Nova Scotia records of <i>Fisidens exilis</i> at Canadian Museum of Nature. pers. comm., 3 records.
3		Hill, N.M., Myra, M. 2017. Email to Sean Blaney regarding rich interval flora on Nictaux River. Fern Hill Institute, 3 records.
3		Klymko, J. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre.
3		Klymko, J. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
3		Klymko, J.J.D. 2012. Insect fieldwork & submissions, 2011. Atlantic Canada Conservation Data Centre. Sackville NB, 760 recs.
3		Mersey Tobateac Research Institute. 2022. Nova Scotia Bobolink observations. pers. comm. to J. Churchill.
3		Mills, Pamela. 2008. <i>Clethra alnifolia</i> at Mudflat Lake. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to D.M. Mazerolle, 4 recs.
3		Newington, Nina. 2023. <i>Anzia colpodis</i> at Beal's Brook, NS. Pers. comm. to J. Churchill.
3		Newington, Nina. 2024. Common Nighthawk recordings. Pers. comm., 3 records.
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		Porter, K. 2013. 2013 rare and non-rare vascular plant field data. St. Mary's University, 57 recs.
3		Sabine, M. 2016. NB DNR staff incidental Black Ash observations. New Brunswick Department of Natural Resources.
3		Shortt, R. Connell Herbarium Black Ash specimens. University New Brunswick, Fredericton. 2019.
3		Staicer, C. 2013. Personal communication concerning <i>Hirundo rustica</i> nesting in and around Kejimikujik NP, NS. Pers. comm.
3		Thompson, R. 2018. Williamsdale Quarry Expansion Project, NS, Environmental Assessment rare plants. Dexter Construction Company Limited.

#	recs	CITATION
3		Watts, Todd. 2021. Todd Watts rare species data 2021. Peskolomakuti First Nation at Skutik, 152 records.
3		Wilhelm, S.I. et al. 2019. Colonial Waterbird Database. Canadian Wildlife Service.
2		Amirault, D.L. & McKnight, J. 2003. Piping Plover Database 1991-2003. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
2		Anon. 2017. Export of Maritimes Butterfly records. Global Biodiversity Information Facility (GBIF).
2		Archibald, D.R. 2003. NS Freshwater Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
2		Basquill, S.P. 2018. Various specimens, NS DNR field work. NS Department of Natural Resources, 10.
2		Beliveau, A. 2013. email to Sean Blaney regarding <i>Listera australis</i> observations in SW Nova Scotia. Mersey Tobateic Research Institute, 8.
2		Beliveau, A.G. E.C. Smith Herbarium Specimen Database 2019. E.C. Smith Herbarium, Acadia University. 2019.
2		Benedict, B. Cornell Herbarium Specimens. Digital photos. University New Brunswick, Fredericton. 2005.
2		Benedict, B. Cornell Herbarium Specimens. University New Brunswick, Fredericton. 2000.
2		Blaney, C.S. 1999. Fieldwork 1999. Atlantic Canada Conservation Data Centre. Sackville NB, 292 recs.
2		Blaney, C.S. Miscellaneous specimens received by ACCDC (botany). Various persons. 2001-08.
2		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.
2		COSEWIC (Committee on the Status of Wildlife in Canada) 2013. COSEWIC Assessment and Status Report on the Eastern Waterfowl <i>Peltigera hydrothya</i> in Canada. COSEWIC, 46 pp.
2		Emma Vost. 2022. Bank swallow colony and broad-winged hawk sightings in Bridgetown, NS. Personal communication, 4.
2		Gilhen, J., Jones, A., McNell, J., Tanner, A.W. 2012. A Significant Range Extension for the Eastern Ribbonsnake, <i>Thamnophis sauritus</i> , in Nova Scotia, Canada. The Canadian Field-Naturalist, 126(3): 231-233.
2		Golder Associates. 2018. Dorchester wind turbine bat detections. Owens, Luke, Firman, Mitch, Melcher, Heather (ed.) Golder Associates Ltd.
2		Haughian, Sean. 2019. Blue Mountain, Birch Cove Lakes Wilderness Area. Nova Scotia Museum, 39 recs.
2		Hicklin, P.W. 1995. The Maritime Shorebird Survey Newsletter. Calidris, No. 3. 6 recs.
2		Hill, N.M. 2019. Observation of <i>Crocianthemum canadense</i> 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		Hope, P. 2002. Field survey of <i>Goodyera pubescens</i> population at Kejimikujik National Park. Kejimikujik National Park. 3 recs.
2		Jonathan Riley. 2024. <i>Fraxinus nigra</i> near Gaspereau Lake. iNaturalist, 2 recs.
2		Kennedy, B. & Cron, C.; Patriquin, D. 2018. Email to Sean Blaney on observations of <i>Trichostema dichotomum</i> at Shingle Lake, Nova Scotia, 2 records.
2		LaPaix, R.; Parker, M. 2013. email to Sean Blaney regarding <i>Listera australis</i> observations near Kearney Lake. East Coast Aquatics, 2.
2		LaPaix, R.W. 2014. Trans-Canada Energy East Pipeline Environmental Assessment. Records from 2013-14. Stantec Consulting, 5 recs.
2		Lock, A.R., Brown, R.G.B. & Gerriets, S.H. 1994. Gazetteer of Marine Birds in Atlantic Canada. Canadian Wildlife Service, Atlantic Region, 137 pp.
2		Majka, C. 2009. Université de Moncton Insect Collection: Carabidae, Cerambycidae, Coccinellidae. Université de Moncton, 540 recs.
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, David. 2021. Botanical fieldwork 2019-20200. Parks Canada.
2		McAlpine, D.F. New Brunswick Museum bee specimens. New Brunswick Museum. 2013.
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		Munro, M. 2003. <i>Dirca palustris</i> & <i>Hepatica nobilis</i> var. <i>obtusata</i> at Cogmagun River, NS., Pers. comm. to C.S. Blaney. 2 recs.
2		Nature Conservancy of Canada. 2023. NCC Nova Scotia Data.
2		Nature Conservancy of Canada. 2024. NCC NB 2024 Species Records. Nature Conservancy of Canada, 45 recs.
2		NatureServe Canada. 2018. iNaturalist Butterfly Data Export. iNaturalist.org and iNaturalist.ca.
2		NatureServe Canada. 2018. iNaturalist Maritimes Butterfly Records. iNaturalist.org and iNaturalist.ca.
2		Neily, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobateic Research Institute, 1691 records.
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		Newington, Nina and Proulx, Lisa. <i>Sclerophora peronella</i> occurrences near Tupper Brook, NS. Nova Scotia Department of Natural Resources and Renewables. Pers. comm., 2 records.
2		Palmer, Julie; McOrmand, Bonnie. 2024. Olive-Sided Flycatcher in Goldsmith Lake Wilderness Area. Save Our Old Forests Association NS, 2 recs.
2		Parker, M. 2016. Wood turtle (<i>Glyptemys insculpta</i>) Visual Surveys at Black, Wallace, Musquodobit and Sackville Rivers, Nova Scotia. East Coast Aquatics Inc., 3 records.
2		Parker, M. 2018. East Coast Aquatics ACCDC 2018 Report. East Coast Aquatics, 12 records.
2		Pepper, C. 2021. Rare bird, plant and mammal observations in Nova Scotia, 2017-2021.
2		Proulx, Lisa. 2024. <i>Sclerophora peronella</i> and <i>Martes americana</i> records near Goldsmith Lake. Pers. comm., 2 records.
2		Riley, J. 2023. Rare and at Risk lichens and plants near Goldsmith Lake, NS. Pers. comm. to J.L. Churchill.
2		Sheffield, C.S. 2004. The Rare Cleptoparasitic Bee <i>Epeloides pilosula</i> (Hymenoptera: Apoidea: Apidae) Discovered in Nova Scotia, Canada, with Distributional Notes
2		Standley, L.A. 2002. <i>Carex haydenii</i> in Nova Scotia., Pers. comm. to C.S. Blaney. 4 recs.
2		Toms, Brad. 2022. Non-Lichen Observations from Lichen SMP and NCC Property Searches. Mersey Tobateic Research Institute.
2		Vinson, Neil. 2020. Email - additional <i>Peltigera hydrothya</i> records, Fundy National Park. Chapman-Lam, Colin J. (ed.) Fundy National Park, 2.
2		White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
1		Allan Smith. 2011. Cedar stand location at South Williamston. Abitibi Bowater, 1 Rec.
1		Amirault, D.L. 2003. 2003 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
1		Amirault, D.L. 2005. 2005 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 27 recs.
1		Amiro, Peter G. 1998. Atlantic Salmon: Southern Nova Scotia SFA 21. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-11. 1 rec.
1		Anderson, Frances. 2022. <i>Heterodermia squamulosa</i> record near Lunenburg, NS. pers. comm.

#	recs	CITATION
1	1	Andrew Cranton. Deceased Atlantic White-Sided Dolphins. Annapolis Royal Volunteer Fire Department, 1 rec.
1	1	Anon. Dataset of butterfly records for the Maritime provinces. Museum of Comparative Zoology, Harvard University, 2017.
1	1	Atlantic Canada Bank Swallow Working Group. 2022. 2021 Bank Swallow colony records. Birds Canada.
1	1	Austin-Smith, P. 2014. 2014 Common Nighthawk personal communication report, NS. NS Department of Natural Resources.
1	1	Bagnell, B.A. 2003. Update to New Brunswick Rare Bryophyte Occurrences. B&B Botanical, Sussex, 5 recs.
1	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	1	Basquill, S. P. 2008. Nova Scotia Dept of Natural Resources.
1	1	Basquill, S.P. 2004. C. americana and Sedum sp records, 2002. Pers. comm. to C.S. Blaney. 2 recs, 2 recs.
1	1	Basquill, S.P. 2011. Field observations & specimen collections, 2010. Nova Scotia Department of Natural Resources, Pers. comm., 8 Recs.
1	1	Basquill, S.P. 2012. 2012 Bryophyte specimen data. Nova Scotia Department of Natural Resources, 37 recs.
1	1	Basquill, S.P.; Quigley, E. 2006. New Minuartia groenlandica record for NS. Pers. comm. to C.S. Blaney, Oct 6, 1 rec.
1	1	Belliveau, A. & Toms, B. 2012. Email regarding Lophiola aurea (Goldencrest) location on Molega Lake, NS. Mersey Tobateic Research Institute, 3 records.
1	1	Belliveau, A.G. 2020. Email to Colin Chapman on new NS locations for Allium tricoccum. Chapman, C.J. (ed.) Acadia University.
1	1	Benjamin, L.K. 2003. Cyrtopidium arietinum in Cogmagun River NS. Pers. comm. to S. Blaney, 1 rec.
1	1	Berg, L. 2020. Canada Warbler observations, Birch Lake, NS. pers. comm. to J. Churchill.
1	1	Blaney, C.S. 2014. 2014 Bank Swallow colony observation, Westcock, NB. Atlantic Canada Conservation Data Centre.
1	1	Blaney, C.S. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 6719 recs.
1	1	Brach, A.R. 2019. Correspondence to Sean Blaney regarding Calamagrostis cinnoides specimen from Halifax NS. pers. comm., Harvard University Herbaria, 1 record.
1	1	Brad Toms. 2024. Erioderma mollissimum records. Mersey Tobateic Research Institute, 57 recs.
1	1	Bredin, K.A. 2000. NB & NS Bog Project, fieldwork. Atlantic Canada Conservation Data Centre, Sackville, 1 rec.
1	1	Breen, A. 2017. 2017 Atlantic Whitefish observation. Coastal Action.
1	1	Brooks, Fiona. Erioderma mollissimum records in Lunenburg County, NS. Pers. comm., 2 records.
1	1	Bruce, J. 2014. 2014 Wood Turtle email report, Nine Mile River, NS. NS Department of Natural Resources.
1	1	Brunton, Dan. 2022. Record of Isoetes prototypus near Sand Lake, NS. pers. comm.
1	1	Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
1	1	Cartwright, Kim. Lynx canadensis sightings in southwest Nova Scotia. Pers. comm., 2 records.
1	1	Catling, P.M. 2001. Bog Elfyn records in NB, 1939-95. Eastern Cereal & Oilseed Research Centre, Ottawa, Pers. comm. to K.A. Bredin. 11 recs.
1	1	Chapman, Cody. Unreported Species at Risk Records across Nova Scotia. Chapman, Cody, 5 records.
1	1	Chlason, Roland. 2017. New Brunswick Breeding bird observations from NBWTF project, pers. comm. to J. Churchill.
1	1	Clayden, S.R. 2020. Email regarding Blue Felt Lichen (Pectenia plumbea) occurrences in New Brunswick, from Stephen Clayden to Sean Blaney. pers. comm., 2 records.
1	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	1	Cook, K. 2016. Wood Turtle record. Pers. comm. to Nova Scotia Department of Lands and Forestry.
1	1	Creaser, Alissa & Belliveau, Alain Bombus specimens collected in Wolfville, Nova Scotia, in July 2022. E.C. Smith Herbarium. 2022.
1	1	Crowell, A. 2004. Cyrtopidium arietinum in Weir Brook, Hants Co. Pers. comm. to S. Blaney, 1 rec.
1	1	Crowell, M. 2013. email to Sean Blaney regarding Listera australis at Bear Head and Mill Cove Canadian Forces Station. Jacques Whitford Environmental Ltd., 2.
1	1	Crowell, M.J. Plant specimens from Nictaux, NS sent to Sean Blaney for identification. Jacques Whitford Limited. 2005.
1	1	deGooyer, K. 2018. Chelydra serpentina observation record. Nova Scotia Environment.
1	1	deGooyer, K. 2019. Snapping Turtle and Eastern White Cedar observations. Nova Scotia Environment.
1	1	Department of Natural Resources and Energy Development. 2022. Wood Turtle records for New Brunswick. Government of New Brunswick, 28 records.
1	1	Edge, Thomas A. 1984. Status report on the Atlantic Whitefish (Coregonus huntsmani). Committee on the Status of Endangered Wildlife in Canada.
1	1	Emma Vost. 2024. Nova Scotia Natural Resources and Renewables, 1 rec.
1	1	Gerriets, S.H. 1997-2001. Element Occurrence Database. Atlantic Canada Conservation Data Centre, Sackville NB, 1 rec.
1	1	Golder Associates Ltd. 2021. Black Ash location from Goffs Quarry Expansion Environment Assessment, 2017. Golder Associates Ltd., 1 record.
1	1	Goltz, J.P. 2001. Botany Ramblings April 29-June 30. 2001. N.B. Naturalist, 28 (2): 51-2. 8 recs.
1	1	Heron, J. 2022. Bombus records communicated to J. Klymko over email in autumn 2022. Pers. comm.
1	1	Hill, N. 2014. 2014 Monarch email report, Bridgetown, NS. Fern Hill Institute for Plant Conservation.
1	1	Hill, N. 2023. Observation record of Halenia deflexa on the headland barrens W of Prospect, Halifax Co. pers. comm., 1 record.
1	1	Hilli, N.; Manning, I. 2020. Wild Leek observation, Cornwallis River, NS, floodplain. pers. comm. to J. Churchill.
1	1	Hilli, 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	1	Hilli, N.M. 2016. Email communications to Sean Blaney and Alain Belliveau regarding the discovery of Fimbristylis autumnalis on the shores of Loon Lake, Kejimikujik National Park. Pers. comm., 1 rec.
1	1	Hilli, Nick. Roserose on Waplesue Point. Fern Hill Institute for Plant Conservation. Pers. comm., 1 record.
1	1	Hope, P. 2007. Water-pennywort (Hydrocotyle umbellata) on Elli Island. Parks Canada, Kejimikujik NP, 1 record.
1	1	Horace Mouland. 2022. Monarch observation in Wilmot, Nova Scotia. Personal communication, 1 record.
1	1	Jacques Whitford Ltd. 2003. Cananda Lily location. Pers. Comm. to S. Blaney. 2pp, 1 rec.
1	1	Johnstone, D.; Churchill J. 2014. 2014 Chimney Swift observation, Kejimikujik NP, NS. Atlantic Canada Conservation Data Centre.
1	1	Kariyawansa, Rohan. 2023. Wood Turtle sighting near Saint Andrews Anglican church in Timberlea. pers. comm.
1	1	Kennedy, B. 2019. observations of Crocanthemum canadense at Bangs Falls, Nova Scotia. Naturalist.ca.
1	1	Klymko, J. 2025. John Klymko 2024 field data. Atlantic Canada Conservation Data Centre.
1	1	Klymko, J.J.D. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 3 recs.

# recs	CITATION
1	Klymko, J.J.D. 2016. 2014 field data. Atlantic Canada Conservation Data Centre.
1	LaFlamme, C. 2008. Discovery of <i>Goodyera pubescens</i> at Springdale, NB. Amec Earth and Environmental. Pers. comm. to D.M. Mazerolle, 1 rec.
1	Lautenschlager, R.A. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 2 recs.
1	Layberry, R.A. 2012. Lepidopteran records for the Maritimes, 1974-2008. Layberry Collection, 1060 recs.
1	MacKinnon, D.S. 2002. Fieldwork 2002. Dept of Environment & Labour, Protected Areas Branch, 1 rec.
1	MacKinnon, D.S. 2012. <i>Goodyera pubescens</i> observation, photo. Pers. comm. to S. Blaney, Sep 18, 1 rec.
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	Majka, C.G. 1967. The butterflies of Albert County. Bulletin of the Moncton Naturalists Club, 13-20.
1	Manning, I. 2020. Peregrine Falcon observation. Pers. comm. to J.L. Churchill.
1	Marshall, L. 1998. Atlantic Salmon: Southwest New Brunswick outer-Fundy SFA 23. Dept of Fisheries & Oceans, Atlantic Region. Science. Stock Status Report D3-13. 6 recs.
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	McCarthy, C. 2003. Ecological Inventory of Melanson Property, Annapolis County, Nova Scotia. Kejimikujik National Park.
1	Miller, D.G. 2013. Peregrine Falcon nesting information from birdingnewbrunswick.ca. birdingnewbrunswick.ca.
1	Nature Trust of New Brunswick. 2020. Nature Trust of New Brunswick 2020 staff observations of species occurrence data. Nature Trust of New Brunswick, 133 records.
1	Nelly, P.D. Plant Specimens. Nova Scotia Dept Natural Resources, Truro. 2006.
1	Nelly, T.H. 2004. <i>Hepatica nobilis</i> var. <i>obtusata</i> record for Falmouth NS. Pers. comm. to C.S. Blaney, 1 rec.
1	Newell, R.E. 2004. <i>Hepatica nobilis</i> var. <i>obtusata</i> record. Pers. comm. to S. Blaney, 1 rec.
1	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.
1	Poirier, N. 2020. Email to John Klymko about <i>Cupido amyntula</i> and <i>Thorybes pylades</i> record from Albert Co., NB. pers. comm.
1	Popma, K. 2001. Phalarope & other bird observations in Westmorland Co., Pers. comm. to K.A. Bredin. 5 recs.
1	Prette, Anna. 2024. Chimney Swifts at Goldsmith Lake. Personal collection, 1 rec.
1	Proulx, Lisa. 2022. Email to Sean Blaney regarding <i>Sclerophora peronella</i> (Frosted Glass Whiskers, a lichen) occurrence at Goldsmith Lake, Annapolis Co., NS. pers. comm., 1 record.
1	Riley, J. 2019. Digby County lichen observations. Pers. comm. to J.L. Churchill, 50 recs.
1	Riley, Jonathan. 2019. <i>Fraxinus nigra</i> observation near Kejimikujik National Park. iNaturalist.
1	Robicheau, C. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
1	Scott, F.W. 1988. Status Report on the Southern Flying Squirrel (<i>Glaucomys volans</i>) in Canada. Committee on the Status of Endangered Wildlife in Canada, 2 recs.
1	Shafer, A.B.A., D. T. Stewart. 2006. A Disjunct Population of <i>Sorex dispar</i> (Long-Tailed Shrew) in Nova Scotia. Northeastern Naturalist, 13(4): 603-608.
1	Shortt, R. UNB specimen data for various tracked species formerly considered secure. Connell Memorial Herbarium, UNB, Fredericton NB. 2019.
1	Smith, M. 2016. Email regarding additional location of <i>Fimbristylis autumnalis</i> on shores of Loon Lake. Kejimikujik National Park. pers. comm., 1 record.
1	Sollows, M.C., 2009. NBM Science Collections databases: <i>Cocconeid</i> & <i>Cerambycid</i> Beetles. New Brunswick Museum, Saint John NB, download Feb. 2009, 569 recs.
1	Spicer, C.D. 2004. Specimens from CWS Herbarium, Mount Allison Herbarium Database. Mount Allison University, 5939 recs.
1	Steeves, R. 2004. <i>Goodyera pubescens</i> occurrence from Colpitts Brook, Albert Co., Pers. comm. to C.S. Blaney. 1 rec.
1	Stewart, P. 2013. email to Sean Blaney regarding the discovery of a <i>Listera australis</i> population at Blockhouse. EnviroSphere Consultants Limited, 1.
1	Timmons, M. 2019. Telephone report of <i>Polygala polygama</i> at Aylesford Mountain, Kings Co., NS by Megan Timmons to C.S. Blaney, 1 record.
1	Toms, Brad. 2024. WestFor survey results 2024 part 2. Mersey Tobetic Research Institute, 20 records.
1	Toner, M. 2001. Lynx Records 1973-2000. NB Dept of Natural Resources, 29 recs.
1	Tremblay, E. 2006. Kouchibouguac National Park Digital Database. Parks Canada, 105 recs.
1	Vinson, Neil. 2018. Record of <i>Saxifraga paniculata</i> from Fundy NP, emailed to S. Blaney 19 July 2018. Pers. comm.
1	Vinson, N. 2018. Email to S. Blaney regarding new occurrence of <i>Saxifraga paniculata</i> 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 (<i>Primula veris</i>) and coastal habitat leaf rosettes (<i>Primula laurentiana</i>) in Fundy National Park. pers. comm., 2 rec.
1	Vost, Emma. 2024. Black Ash in NS. Nova Scotia Department of Natural Resources & Renewables, 1 rec.
1	Walker, E.M. 1933. The Odonata of the Maritime Provinces. Proc. Nova Scotian Inst. Sci., 18: 106-128. 3 recs.
1	Weatherby, C.A. 1942. Two weeks in southwestern Nova Scotia. Rhodora, 44: 229-236.
1	Webster, R.P. & Edsall, J. 2007. 2005 New Brunswick Rare Butterfly Survey. Environmental Trust Fund, unpublished report, 232 recs.
1	Webster, R.P. 2004. Lepidopteran Records for National Wildlife Areas in New Brunswick. Webster, 1101 recs.
1	Williams, M. Cape Breton University Digital Herbarium. Cape Breton University Digital Herbarium. 2013.
1	Wissink, R. 2000. Four-toed Salamander Survey results, 2000. Fundy National Park, Internal Documents, 1 rec.

Atlantic Canada Conservation Data Centre Data Dictionary

Revised: August 29, 2024

I. Biodiversity Database

The following fields of data may be included (and may or may not be populated) in occurrence records.
Text fields are 255 char max. (and may truncate text).

TAXONOMY						
Field	Type	Definition				
MCODE	TXT	8 character 'Museum Code' (1 to 4 = genus, 5 to 8 = sp+ssp)				
ELCODE	TXT	Unique Identifier of taxon				
SCINAME	TXT	Global Scientific Name of taxon				
COMNAME	TXT	English Common Name of taxon				
NOMCOMMUN	TXT	French Common Name				
LOCATION						
Field	Type	Definition				
SURVEYSITE	TXT	General locality of occurrence				
DIRECTIONS	TXT	Specific locality: e.g. bearings and distance from enduring landmark				
SUBNAT	TXT	Province/State: 2-character ISO code				
COCODE	TXT	County Code (2 characters for province + 4 characters for county name)				
MAPCODE	TXT	Map number: NTS identifier in Canada				
UTME20	INT	Easting in UTM Zone 20				
UTMN20	INT	Northing in UTM Zone 20				
LONDEC	DEC	Decimal Longitude				
LATDEC	DEC	Decimal Latitude				
LOCUNCM	INT	Horizontal precision in metres				
PREC	DEC	Precision in metres by power of 10 (e.g. 3 = 10 to the 3rd = 1000 m = 1 km):				
		prec	common speech	example	unit size	literal range
		6.0	within province	province	1000.0 km	562.3 - 1778.3 km
		5.7	in part of province	'NW NB'	500.0 km	281.2 - 889.1 km
		5.0	within in county	county	100.0 km	56.2 - 177.8 km
		4.7	within 50s of kilometres		50.0 km	28.1 - 88.9 km
		4.0	within 10s of kilometres	BBA grid	10.0 km	5.6 - 17.8 km
		3.7	within 5s of kilometres		5.0 km	2.8 - 8.9 km
		3.0	within kilometres	topo grid	1.0 km	0.6 - 1.8 km
		2.7	within 500s of metres		500.0 m	281.2 - 889.1 m
		2.0	within 100s of metres	ball field	100.0 m	56.2 - 177.8 m
		1.7	within 50s of metres		50.0 m	28.1 - 88.9 m
		1.0	within 10s of metres	boxcar	10.0 m	5.6 - 17.8 m
		0.7	within 5s of metres		5.0 m	2.8 - 8.9 m
		0.0	NOT USED	pace	1.0 m	0.6 - 1.8 m
RARITY / STATUS						
Field	Type	Definition				
NRANK	TXT	National Rarity Rank of taxon (in Canada)				
NPROT	TXT	National Protection Status of taxon (i.e., COSEWIC in Canada)				
NPROTSAR	TXT	National Protection Status of taxon (i.e., SARA in Canada):				
		code	Rank and short definition			
		X	Extinct in Canada and elsewhere			
		XT	Extirpated in Canada but surviving elsewhere			
		E	Endangered in Canada			
		T	Threatened in Canada			
		V	Vulnerable in Canada			
		SC	Special Concern in Canada			
		DD	Data Deficient: data inadequate for assessment			
		NAR	Not At Risk in Canada			
		SRANK	TXT	Subnational (Provincial) Rarity Rank of taxon:		
		code	Rank and short definition			
		SX	Extinct or extirpated in province			
		SH	Historically occurring but currently undetected in province			
		S1	Extremely rare in province			
		S2	Rare in province			
		S3	Uncommon in province			

		S4	Widespread, common and apparently secure in province
		S5	Widespread, abundant and demonstrably secure in province
		SE	Exotic in province
		SA	Accidental, infrequent and outside of range within province
		SNA	Ranking not applicable in province
		SNR	Not yet assessed in province
SPROT	TXT	Provincial Legal Protection Status	
		code	Rank and short definition
		Endangered	Facing imminent extirpation or extinction
		Threatened	Likely to become endangered if limiting factors are not reversed
		Vulnerable (NS)	Special concern because of characteristics that make it particularly sensitive to human activities or natural events
		Special Concern (NB)	May become a threatened or endangered species because of a combination of biological characteristics and identified threats
		Extirpated	No longer exists in the wild in the Province but exists in the wild outside of the Province
		Extinct	No longer exists
IUCN	TXT	International Union of Conservation Naturalists rarity rank:	
		code	Rank and short definition
		EX	Extinct: no individuals remaining
		EW	Extinct in the Wild: only captive or naturalised survivors
		CR	Critically Endangered: extreme risk of extinction in wild
		EN	Endangered: high risk of extinction in wild
		VU	Vulnerable: high risk of endangerment in wild
		NT	Near Threatened: likely to become endangered soon
		LC	Least Concern: lowest risk, widespread and abundant
		DD	Data Deficient: data inadequate for assessment
NE	Not Evaluated, not yet assessed against criteria		
OBSERVATION			
Field	Type	Definition	
OBSERVER	TXT	Individual(s) that observed the taxon	
OBDATE	TXT	Date of observation (YYYY MM DD)	
OBDATA	TXT	Concatenation of fields below, relating to observation	
OBEVID	TXT	Type of evidence (e.g., specimen, photo)	
OBCOUNT	TXT	Number of individuals at location	
OBABUN	TXT	Relative rarity of taxon at location, e.g. 'common', 'scattered'	
OBSIZE	TXT	Size of individual	
SIZE	TXT	Size of occurrence 'patch' (in m ² , ha or acres)	
OBDESC	TXT	Details of specimen appearance or conditions	
OBPHEN	TXT	Life stage of individual (e.g., bud, flowering)	
OBSEX	TXT	Male/female if relevant	
OBACTIV	TXT	Activity of individual when observed (e.g., nesting, crossing road)	
OBASSP	TXT	Other taxa associated with the observation	
NOTETAX	TXT	Identifier's note on taxonomic issues	
GENDESC	TXT	Concatenation of fields below, relating to site	
HABITAT	TXT	Habitat characterization of location	
ECODIST	NUM	National Ecological Framework EcoDistrict identifier	
WSCODE	TXT	Quaternary Watershed identifier	
GENCOM	TXT	General Comments: concatenation of Notes (NOTE1, NOTE2, NOTE3)	
COLLECTION			
Field	Type	Definition	
CITATION	TXT	Primary source of data	
DATA MANAGEMENT			
Field	Type	Definition	
IDNUM	TXT	AC CDC record Unique ID	
EDITION	TXT	Last editor's initials and date (YYYY MM DD)	

II. Managed and Biologically Significant Areas (MSA) Database

The following fields of data may be included (and may or may not be populated) for Managed and Biologically Significant Areas.

IDENTITY AND DESCRIPTION		
Field	Type	Definition
msaGIS	INT	Unique GIS feature identifier
msaCode	TXT	Unique identifier for the MSA feature
msaClass	TXT	Whether the MSA feature is a Managed Area (MA) or biologically Significant Area (SA)
msaName	TXT	MSA feature name

msaNameFr	TXT	MSA feature name (French)
description	TXT	Description of the MSA feature
notes	TXT	Additional notes about the MSA feature
JURISDICTION / OWNERSHIP		
Field	Type	Definition
localJuris	TXT	Mandated agency with jurisdiction over property
owner	TXT	Property owner
ownerCom	TXT	Details of multiparty arrangements
ownerDate	TXT	Date of property possession
CLASSIFICATION		
Field	Type	Definition
protStat	TXT	Activities permitted or restricted (when known)
legalAct	TXT	Title of enabling legislation
legalDate	TXT	Year of enabling legislation
estabDate	TXT	Year of site designation
aicht11	TXT	Whether the site counts towards the Aichi Target 11 and Canada Target 1 biodiversity targets (yes or no)
oecm	TXT	Other effective area-based conservation means (yes or no)
iucnCat	TXT	IUCN protected area category. For complete category descriptions, visit https://portals.iucn.org/library/sites/library/files/documents/PAG-021.pdf . Features categorized as "YES" are sites which meet the standard definition of a protected area, but the category of protection has not yet been determined and features categorized as "N/A" are other area-based conservation measures or sites that do not meet the protected area definition (2018 Canadian Protected and Conserved Areas Database (CPCAD) User Manual).
msaType	TXT	MSA feature type:
		group
		Designation
		Conservation
		Conservation Area
		Conservation Easement
		Fee-Simple Ownership by Environmental Non-Governmental Conservation Organization
		Land Trust Property
		Natural Area
		Nature Preserve
		Nature Reserve
		Nature Reserve and Conservation Easement
		Nature Trail
		Other Effective Area-Based Conservation Measure
		Privately Owned Conservation Area
		Privately Owned Natural Area
		Protected Area
		Protected Beach
		Protected Natural Area
		Provincially Owned Natural Area
		To be determined
		Heritage
		Heritage River
		Museum
		National Historic Event
		National Historic Site
		Provincial Heritage Site
		Provincial Historic Site
		Provincial Historic/Heritage Park
		UNESCO World Heritage Site
		Parks
		Municipal Park
		National Park
		Nature Park
		Park
		Privately Owned Park
		Provincial Park
		Provincial Park Beach
		Wilderness
		Ecological Reserve
		Environmentally Sensitive Area (ESA)
		Site of Ecological Significance (SES)
		Site of Ecological Significance/International Biological Program (SES / IBP)
		Wilderness Area
		Wilderness Reserve
		Wildlife
		Eastern Habitat Joint Venture (EHJV)
		Important Bird Area (IBA)
		Marine Protected Area
		Migratory Bird Sanctuary
		National Wildlife Area (NWA)
		Privately Owned Wildlife Management Area
		Provincial Wildlife Management Area
		Wildlife Management Area (WMA)

			Wildlife Park
			Wildlife Refuge
			Wildlife Reserve
			Wildlife Sanctuary
		Other	Education Area
			Experimental Area
			Federal Corrections Facility
			Fossil Site
			International Biological Program (IBP)
			Memorial Site
			Other Managed Area
			RAMSAR Wetland Site
			Special Management Area
			Water Supply Area
			Watershed
LOCATION AND SPATIAL ATTRIBUTES			
Field	Type	Definition	
subnat	TXT	Two-letter jurisdiction code (NB, NS, PE, NF, LB)	
location	TXT	Directions to the MSA feature	
biome	TXT	Whether an MSA feature falls within the terrestrial (T) or marine (M) environment	
mapCode	TXT	The National Topographic System (NTS) map square the centre of the MSA feature falls within	
coCode	TXT	Provincial county code (2 characters for province + 4 characters for county name)	
latDec	DEC	Latitude of the centre of the MSA feature	
lonDec	DEC	Longitude of the centre of the MSA feature	
utmE20	INT	Easting of the centre of the MSA feature (NAD83 UTM Zone 20N)	
utmN20	INT	Northing of the centre of the MSA feature (NAD83 UTM Zone 20N)	
extentN	DEC	Northern extent of the MSA feature	
extentS	DEC	Southern extent of the MSA feature	
extentE	DEC	Eastern extent of the MSA feature	
extentW	DEC	Western extent of the MSA feature	
areaHa	DEC	Area of the polygon (ha)	
SOURCE ATTRIBUTES			
Field	Type	Definition	
sourceId	TXT	Unique ID of the MSA feature in the source dataset	
jurisId	TXT	Unique ID of the MSA feature in the original dataset	
srcFeatType	TXT	Whether the feature was a point (PT) or polygon feature (PY) in the source dataset. True boundaries of point MSA features are not known. Points have been buffered by 15m to be included in this MSA database	
url	TXT	Associated website holding additional information about the source feature or database	
bestSource	TXT	Unique identifier for the source database	
citation	TXT	Primary source of data	
edition	TXT	Initials and date (YYYY MM DD) pertaining to the last edit to the MSA feature	

Maritimes Breeding Bird Atlas - Square Summary



Square Summary (20LQ79)

#species (1st atlas) #species (2nd atlas) #hours #pc done
poss prob conf total poss prob conf total 1st 2nd road offrd
24 22 48 94 23 29 45 97 157 51.8 15 1

Region summary (#16: Annapolis Valley - Digby Neck)

#squares #sq with data #species #pc done target #pc
1st 2nd 1st 2nd 1st 2nd
78 69 75 154 175 888 292

Target number of point counts in this square: 13 road side, 2 off road (1 in Mature coniferous, 1 in Mature deciduous). Please try to ensure that each off-road station is located such that the entire 100m radius circle is within the prescribed habitat.

SPECIES	Code		%		SPECIES	Code		%		SPECIES	Code		%	
	1st	2nd	1st	2nd		1st	2nd	1st	2nd		1st	2nd	1st	2nd
Canada Goose	FY	2	46		Northern Harrier	FL	D	49	44	Short-eared Owl			2	0
Wood Duck	P	FY	18	34	Sharp-shinned Hawk	H	H	31	25	North Saw-whet Owl			7	26
American Wigeon			5	9	Northern Goshawk	NY	AE	23	24	Common Nighthawk		T	43	42
American Black Duck	FL	FY	59	72	Red-should Hawk			0	0	Whip-poor-will			1	1
Mallard	FY		18	50	Broad-winged Hawk			27	33	Chimney Swift			39	32
Blue-winged Teal			14	13	Red-tailed Hawk	H	FY	57	64	Ruby-thr Hummingbird	ON	FY	62	89
Northern Shoveler			1	2	Virginia Rail			7	6	Belted Kingfisher	H	D	55	60
Northern Pintail			4	2	Sora			17	25	Yellow-bellied Sapsucker			37	37
Green-winged Teal	H	D	21	20	Common Gallinule			1	2	Downy Woodpecker	AY	FY	65	85
Ring-necked Duck	FL	P	24	30	American Coot			1	1	Hairy Woodpecker	P	T	63	78
Common Eider			4	9	Killdeer	NE	D	68	45	Black-back Woodpecker			4	12
Hooded Merganser			7	25	Spotted Sandpiper	FL	DD	57	45	Northern Flicker	FL	FY	78	94
Common Merganser			21	20	Willet			17	16	Pileated Woodpecker	ON	FY	44	73
Red-breast Merganser	H		2	6	Upland Sandpiper			1	0	American Kestrel	T	V	49	37
Gray Partridge			14	0	Wilson's Snipe	T	T	49	45	Merlin	H		14	46
Ring-necked Pheasant	FL	FY	59	70	American Woodcock	T		49	49	Olive-sided Flycatcher		S	37	41
Ruffed Grouse	FL	D	62	76	Herring Gull			14	28	Eastern Wood-Pewee	T	T	62	68
Spruce Grouse	H		26	13	Great Black-backed Gull		\$	23	32	Yellow-bellied Flycatcher		S	24	44
Wild Turkey			0	1	Roseate Tern		\$	1	0	Alder Flycatcher	A	T	57	94
Common Loon			33	53	Common Tern		\$	1	1	Least Flycatcher	NE	T	57	84
Pied-billed Grebe			2	10	Arctic Tern		\$	1	1	Eastern Phoebe	NY	FY	17	45
Double-crest Cormorant	\$		11	24	Black Guillemot		\$	5	10	Gr.Crested Flycatcher	H		10	9
Great Cormorant	\$		1	1	Rock Pigeon	V	H	46	58	Eastern Kingbird	NE	FY	52	41
American Bittern	V		24	17	Mourning Dove	T	D	55	94	Blue-headed Vireo	H	T	56	90
Great Blue Heron	\$	H	26	26	Black-billed Cuckoo			5	16	Warbling Vireo			1	6
Cattle Egret			0	0	Eastern Screech-Owl		\$	0	1	Red-eyed Vireo	FL	FY	71	92
Turkey Vulture	\$		1	16	Great Horned Owl	P		40	32	Gray Jay			42	34
Osprey			24	32	Barred Owl	NY	T	40	64	Blue Jay	ON	FY	75	96
Bald Eagle	\$		21	50	Long-eared Owl		\$	1	1	American Crow	FL	NE	81	96

[next page >>](#)

Maritimes Breeding Bird Atlas - Summary Sheet for Square 20LQ79 (page 2 of 2)

SPECIES	Code		%		SPECIES		Code		%		SPECIES		Code		%	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Common Raven	FL	H	73	93	North Waterthrush		H	S	34	40	Swamp Sparrow		H	H	43	70
<u>Horned Lark</u> □	H		2	2	Black-white Warbler		H	T	75	92	White-throat Sparrow		A	T	75	98
Tree Swallow	NY	NE	82	84	Tennessee Warbler		H		49	12	White-crown Sparrow	□			0	1
Bank Swallow \$	AY	AE	65	29	Nashville Warbler		S		31	52	Dark-eyed Junco		ON	NE	78	94
Cliff Swallow \$	H	AE	36	28	Mourning Warbler				17	9	Scarlet Tanager	□	NY	S	15	10
Barn Swallow	FL	FY	81	77	Common Yellowthroat		AY	FY	78	97	Northern Cardinal		P	P	8	33
Black-capp Chickadee	AY	FY	75	98	American Redstart		NY	D	84	96	Rose-breast Grosbeak		NB	NE	56	54
Boreal Chickadee			43	46	Cape May Warbler				14	1	Indigo Bunting				7	4
Red-breast Nuthatch	H	S	66	84	Northern Parula		T		66	98	Bobolink		FL	CF	63	52
White-breast Nuthatch	FL	AE	34	54	Magnolia Warbler		H		66	89	Red-wing Blackbird		AY	DD	68	80
Brown Creeper	NE	FY	30	36	Bay-breasted Warbler		H	S	23	25	Eastern Meadowlark	□			5	0
House Wren □			1	1	Blackburnian Warbler		H	S	49	61	Rusty Blackbird	□			33	16
<u>Winter Wren</u>	H		40	61	Yellow Warbler		FL	FY	76	94	Common Grackle		AY	FY	76	90
Golden-crown Kinglet	T	T	62	74	Chestn-sided Warbler		CF		66	94	Brown-head Cowbird		FL	P	60	22
Ruby-crown Kinglet	H		66	48	Blackpoll Warbler				2	9	<u>Baltimore Oriole</u>		NY		31	22
Eastern Bluebird □	FL	AE	10	14	<u>Black-thr Blue Warbler</u>		H		33	48	Pine Grosbeak				15	6
Veery	T	T	68	77	Palm Warbler		T		30	56	Purple Finch		A	FY	72	90
Bicknell's Thrush □			0	0	Pine Warbler □		S		0	1	House Finch □			FY	14	5
<u>Swainson's Thrush</u>	AY		49	80	Yellow-rumped Warbler		V	T	78	93	Red Crossbill □				20	17
Hermit Thrush	T	T	65	92	Black-thr Green Warbler		FL	NE	71	94	<u>White-winged Crossbill</u>		T		34	29
Wood Thrush □			13	1	Canada Warbler □		A	S	44	37	Pine Siskin		H	H	55	36
American Robin	NY	NB	91	98	<u>Wilson's Warbler</u>		H		10	8	American Goldfinch		V	FY	76	93
Gray Catbird	AY	S	60	68	Chipping Sparrow		FL	FY	60	62	Evening Grosbeak		H	P	53	45
<u>Northern Mockingbird</u> □	H		17	10	Vesper Sparrow □		S		5	6	House Sparrow		ON	T	73	32
Brown Thrasher □		FY	1	6	Savannah Sparrow		FL	FY	53	70						
European Starling	AY	NE	81	86	<u>Nelson's Sh-tail Sparrow</u>		H		14	18						
Bohemian Waxwing □			1	0	Fox Sparrow				0	1						
Cedar Waxwing	C	FY	69	92	Song Sparrow		AY	FY	85	98						
Ovenbird	FL	FY	71	96	Lincoln's Sparrow		S		7	20						

This list includes all species found during the Maritimes Breeding Bird Atlas (1st atlas: 1986-1990, 2nd atlas: 2006-2010) in the region #16 (Annapolis Valley - Digby Neck). Underlined species are those that you should try to add to this square (20LQ79). They have not yet been reported during the 2nd atlas, but were found during the 1st atlas in this square or have been reported in more than 50% of the squares in this region during the 2nd atlas so far. "Code" is the code for the highest breeding evidence for that species in square 20LQ79 during the 2nd and 1st atlas respectively. The % columns give the percentage of squares in that region where that species was reported during the 2nd and 1st atlas (this gives an idea of the expected chance of finding that species in region #16). Rare/Colonial Species Report Forms should be completed for species marked: \$ (Colonial), □ (regionally rare), □ (rare in the Maritimes) or □ (rare in the Maritimes, documentation only required for confirmed records). Current as of 13/08/2026. An up-to-date version of this sheet is available from <http://www.mba-aom.ca/jsp/summaryform.jsp?squareID=20LQ79&lang=en>