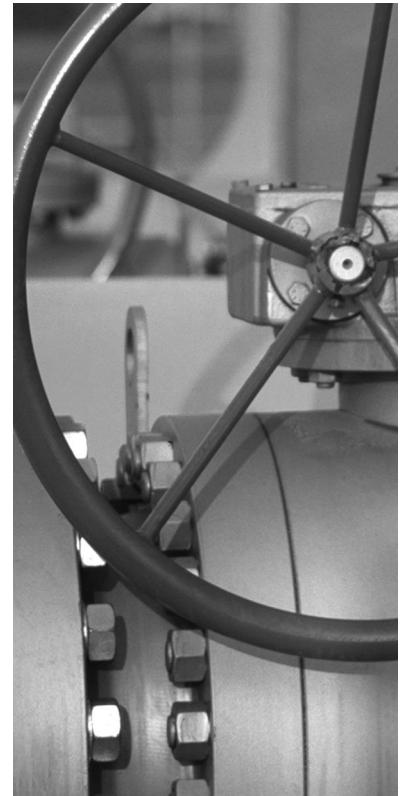


E : ACCDC DATA REPORT



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 **BearHead**
LNG
A subsidiary company of Liquefied Natural Gas Limited



DATA REPORT 5282: Port Hawkesbury, NS

Prepared 6 October 2014
by J. Churchill, Data Manager

CONTENTS OF REPORT

1.0 Preface

- 1.1 Data List
- 1.2 Restrictions
- 1.3 Additional Information
- Map 1: Buffered Study Area

2.0 Rare and Endangered Species

- 2.1 Flora
- 2.2 Fauna
- Map 2: Flora and Fauna

3.0 Special Areas

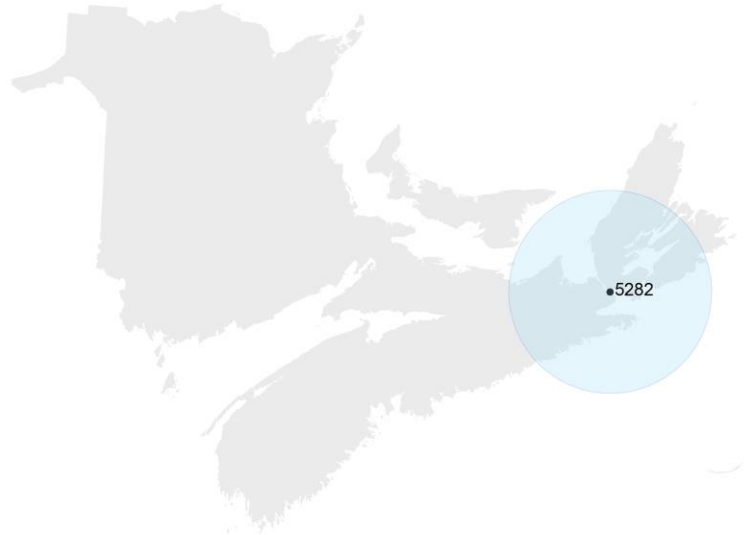
- 3.1 Managed Areas
- 3.2 Significant Areas
- Map 3: Special Areas

4.0 Rare Species Lists

- 4.1 Fauna
- 4.2 Flora
- 4.3 Location Sensitive Species
- 4.4 Source Bibliography

5.0 Rare Species within 100 km

- 5.1 Source Bibliography



Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (ACDC) 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 ACCDC 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 ACCDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees. URL: www.ACCDC.com.

Upon request and for a fee, the ACCDC 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 ACCDC 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	Contents
PtHawkesburyNS_5282ob.xls	All Rare and legally protected <i>Flora and Fauna</i> within 5 km of your study area
PtHawkesburyNS_5282ob100km.xls	A list of Rare and legally protected <i>Flora and Fauna</i> within 100 km of your study area
PtHawkesburyNS_5282ma.xls	All <i>Managed Areas</i> in your study area
PtHawkesburyNS_5282bp.xls	Rare and common <i>Pelagic Birds</i> in your study area (CWS database)
PtHawkesburyNS_5282mm.xls	Rare and common <i>Marine Mammals</i> in your study area
PtHawkesburyNS_5282bb.xls	Common <i>Breeding Birds</i> in your study area (Maritimes Breeding Bird Atlas)

1.2 RESTRICTIONS

The ACCDC 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 ACCDC 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 ACCDC 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) ACCDC 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) ACCDC 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 ACCDC data response.

1.3 ADDITIONAL INFORMATION

The attached file DataDictionary 2.1.pdf provides metadata for the data provided.

Please direct any additional questions about ACCDC data to the following individuals:

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney, Senior Scientist, Executive Director

Tel: (506) 364-2658

sblaney@mta.ca

Animals (Fauna)

John Klymko, Zoologist

Tel: (506) 364-2660

jklymko@mta.ca

Plant Communities

Sarah Robinson, Community Ecologist

Tel: (506) 364-2664

srobinson@mta.ca

Data Management, GIS

James Churchill, Data Manager

Tel: (902) 679-6146

jlchurchill@mta.ca

Billing

Jean Breau

Tel: (506) 364-2659

jrbreau@mta.ca

Questions on the biology of Federal Species at Risk can be directed to ACCDC: (506) 364-2657, 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 Stewart Lusk, Natural Resources: (506) 453-7110.

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 Sherman Boates, NSDNR: (902) 679-6146. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NSDNR Regional Biologist:

Western: Duncan Bayne

(902) 648-3536

baynedz@gov.ns.ca

Western: Donald Sam

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Eastern: Donald Anderson

(902) 295-3949

andersdg@gov.ns.ca

Eastern: Terry Power

(902) 563-3370

powertd@gov.ns.ca

For provincial information about rare taxa and protected areas, or information about game animals, fish habitat etc., in Prince Edward Island, please contact Rosemary Curley, PEI Dept. of Agriculture and Forestry: (902) 368-4807.

2.0 RARE AND ENDANGERED SPECIES

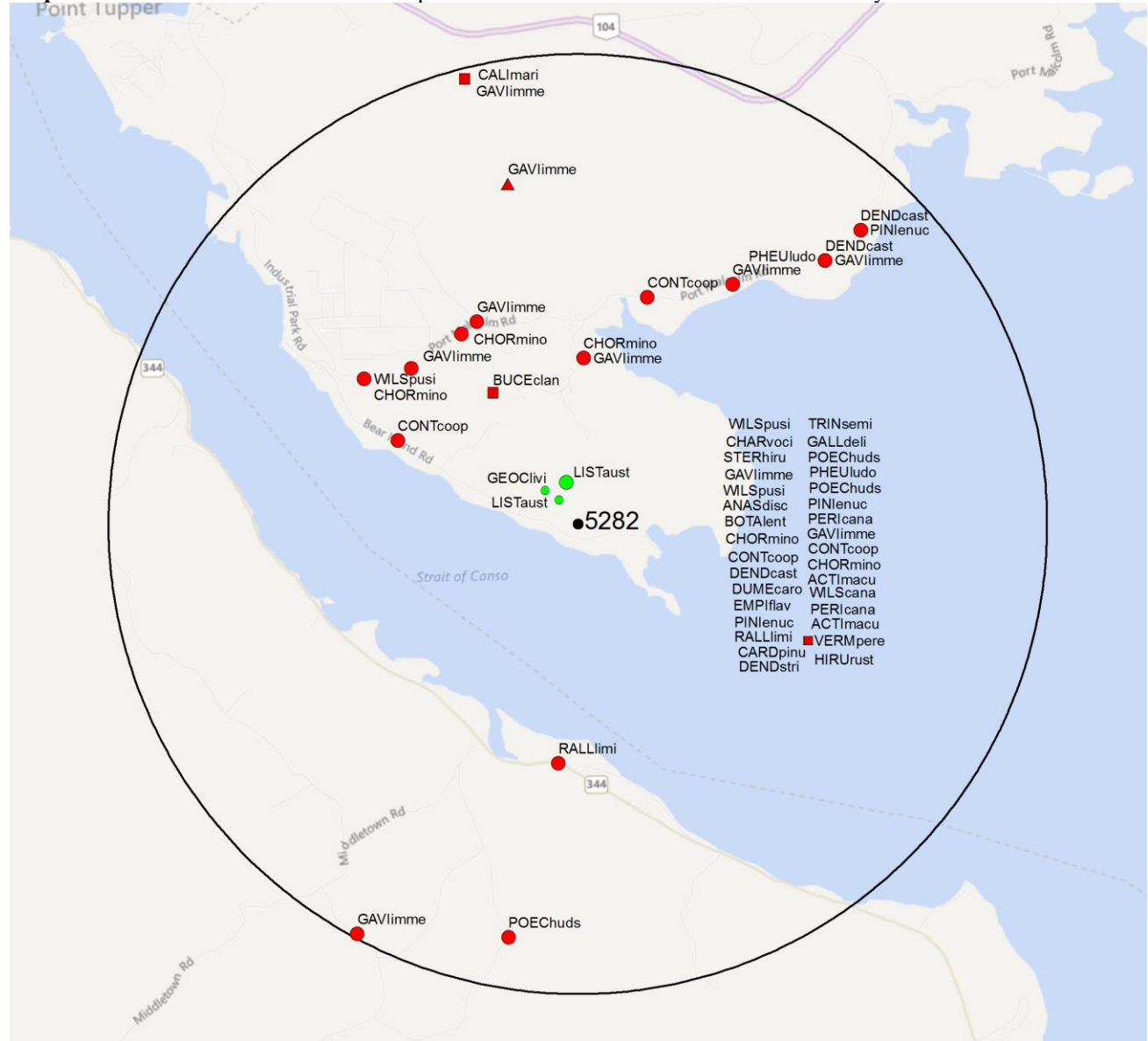
2.1 FLORA

A 5 km buffer around the study area contains 3 records of 2 vascular, no records of nonvascular flora (Map 2 and attached: *ob.xls).

2.2 FAUNA

A 5 km buffer around the study area contains 97 records of 26 vertebrate, no records of invertebrate fauna (Map 2 and attached data files - see 1.1 Data List). 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 5 km of the study area.



RESOLUTION

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

HIGHER TAXON

■	vertebrate fauna
■	invertebrate fauna
■	vascular flora
■	nonvascular flora

3.0 SPECIAL AREAS

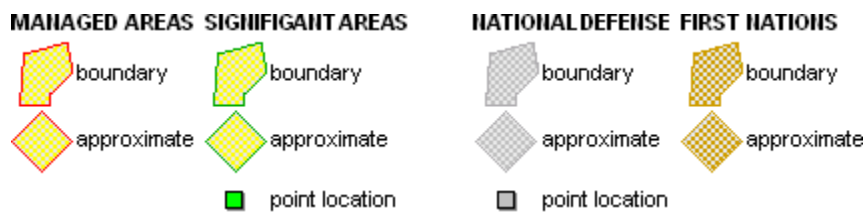
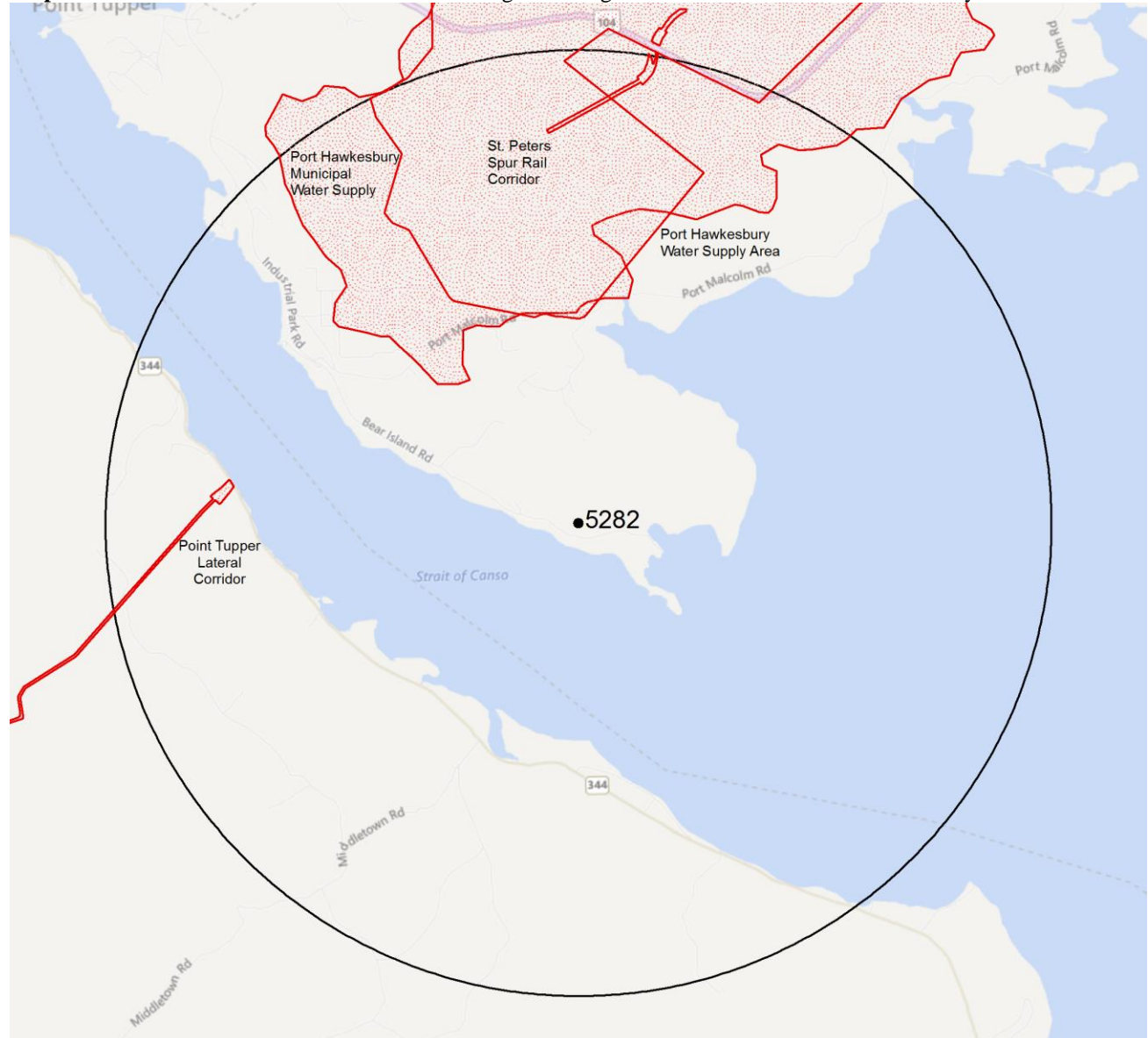
3.1 MANAGED AREAS

The GIS scan identified 4 managed areas in the vicinity of the study area (Map 3 and attached file: *ma*.xls)

3.2 SIGNIFICANT AREAS

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

Map 3: Boundaries and/or locations of known Managed and Significant Areas within 5 km of the study area.



4.0 RARE SPECIES LISTS

Rare and/or endangered taxa within the 5 km-buffered 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. [P] = vascular plant, [N] = nonvascular plant, [A] = vertebrate animal, [I] = invertebrate animal, [C] = community.

4.1 FLORA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P	<i>Listera australis</i>	Southern Twayblade				S2	2 May Be At Risk	2	0.3 ± 0.01
P	<i>Geocaldon lividum</i>	Northern Comandra				S3	3 Sensitive	1	0.5 ± 0.01

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	<i>Hirundo rustica</i>	Barn Swallow	Threatened		Endangered	S3B	1 At Risk	2	2.8 ± 7.07
A	<i>Wilsonia canadensis</i>	Canada Warbler	Threatened	Threatened	Endangered	S3B	1 At Risk	2	2.8 ± 7.07
A	<i>Chordeiles minor</i>	Common Nighthawk	Threatened	Threatened	Threatened	S3B	1 At Risk	6	2.7 ± 7.07
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B	1 At Risk	8	2.7 ± 7.07
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	3 Sensitive	4	2.8 ± 7.07
A	<i>Gavia immer</i>	Common Loon	Not At Risk			S3B,S4N	2 May Be At Risk	17	4.9 ± 10.0
A	<i>Rallus limicola</i>	Virginia Rail				S2B	5 Undetermined	2	2.8 ± 7.07
A	<i>Bucephala clangula</i>	Common Goldeneye				S2B,S5N	4 Secure	1	1.7 ± 9.9
A	<i>Tringa semipalmata</i>	Willet				S2S3B	2 May Be At Risk	1	2.8 ± 7.07
A	<i>Poecile hudsonica</i>	Boreal Chickadee				S3	3 Sensitive	10	2.7 ± 7.07
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3?B,S5N	2 May Be At Risk	3	2.7 ± 7.07
A	<i>Anas discors</i>	Blue-winged Teal				S3B	2 May Be At Risk	1	2.8 ± 7.07
A	<i>Dumetella carolinensis</i>	Gray Catbird				S3B	2 May Be At Risk	2	2.8 ± 7.07
A	<i>Calidris maritima</i>	Purple Sandpiper				S3N	3 Sensitive	1	4.9 ± 10.0
A	<i>Perisoreus canadensis</i>	Gray Jay				S3S4	3 Sensitive	3	2.7 ± 7.07
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B	3 Sensitive	2	2.8 ± 7.07
A	<i>Charadrius vociferus</i>	Killdeer				S3S4B	3 Sensitive	2	2.8 ± 7.07
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B	3 Sensitive	9	2.7 ± 7.07
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3S4B	3 Sensitive	2	2.8 ± 7.07
A	<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher				S3S4B	3 Sensitive	3	2.8 ± 7.07
A	<i>Vermivora peregrina</i>	Tennessee Warbler				S3S4B	3 Sensitive	3	2.8 ± 7.07
A	<i>Dendroica castanea</i>	Bay-breasted Warbler				S3S4B	3 Sensitive	4	2.8 ± 7.07
A	<i>Dendroica striata</i>	Blackpoll Warbler				S3S4B	3 Sensitive	1	2.8 ± 7.07
A	<i>Wilsonia pusilla</i>	Wilson's Warbler				S3S4B	3 Sensitive	4	2.7 ± 7.07
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3S4B	3 Sensitive	2	2.8 ± 7.07
A	<i>Carduelis pinus</i>	Pine Siskin				S3S4B,S5N	3 Sensitive	2	2.8 ± 7.07

4.3 LOCATION SENSITIVE SPECIES

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

Nova Scotia

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within 5 km of Study Site?
<i>Fraxinus nigra</i>	Black Ash		Threatened	No
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Yes
<i>Emydoidea blandingii</i>	Blanding's Turtle - Nova Scotia pop.	Endangered	Vulnerable	No
<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius pop.	Special Concern	Vulnerable	No
<i>Bat Hibernaculum</i>			[Endangered] ¹	No

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

4.4 SOURCE BIBLIOGRAPHY

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

# recs	CITATION
70	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
23	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
4	Staff, DNR 2007. Restricted & Limited Use Land Database (RLUL).
3	Canadian Wildlife Service. 2011. Eastern Canada Seabirds at Sea (ECSAS), 3.27 Ed. Environment Canada, 305,783 recs.
2	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
2	Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
1	Benjamin, L.K. (compiler). 2012. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 4965 recs.
1	Crowell, M. 2013. email to Sean Blaney regarding <i>Listera australis</i> at Bear Head and Mill Cove Canadian Forces Station. Jacques Whitford Environmental Ltd., 2.
1	Hicks, Andrew. 2009. Coastal Waterfowl Surveys Database, 2000-08. Canadian Wildlife Service, Sackville, 46488 recs (11149 non-zero).

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 506 records of 50 vertebrate and 21 records of 11 invertebrate fauna; 48 records of 24 vascular, 15 records of 8 nonvascular flora (attached: *ob100km.xls).

Rare and/or endangered taxa within the 100 km-buffered 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.

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	<i>Morone saxatilis</i>	Striped Bass	Endangered			S1	2 May Be At Risk	4	80.8 ± 0.5
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered		Endangered	S1	1 At Risk	30	18.3 ± 1.0
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus ssp	Endangered	Endangered	Endangered	S1B	1 At Risk	433	17.0 ± 0.5
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	1 At Risk	50	31.3 ± 7.07
A	<i>Calidris canutus rufa</i>	Red Knot rufa ssp	Endangered		Endangered	S2S3M	1 At Risk	12	21.3 ± 0.5
A	<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Threatened			S1?	2 May Be At Risk	1	85.7 ± 0.5
A	<i>Caprimulgus vociferus</i>	Whip-Poor-Will	Threatened	Threatened	Threatened	S1?B	1 At Risk	2	51.1 ± 7.07
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened			S1B	5 Undetermined	7	29.8 ± 7.07
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened			S1B	3 Sensitive	2	31.3 ± 7.07
A	<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Special Concern	Endangered	S1S2B	1 At Risk	11	33.6 ± 7.07
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	3 Sensitive	114	0.5 ± 10.0

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B	1 At Risk	70	21.4 ± 7.07
A	<i>Hirundo rustica</i>	Barn Swallow	Threatened		Endangered	S3B	1 At Risk	422	2.8 ± 7.07
A	<i>Wilsonia canadensis</i>	Canada Warbler	Threatened	Threatened	Endangered	S3B	1 At Risk	289	2.8 ± 7.07
A	<i>Chordeiles minor</i>	Common Nighthawk	Threatened	Threatened	Threatened	S3B	1 At Risk	124	1.8 ± 0.15
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B	1 At Risk	599	2.1 ± 0.15
A	<i>Riparia riparia</i>	Bank Swallow	Threatened			S3B	2 May Be At Risk	187	17.6 ± 7.07
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Threatened		Vulnerable	S3S4B	3 Sensitive	206	13.5 ± 7.07
A	<i>Morone saxatilis</i> pop. 1	Striped Bass- Southern Gulf of St Lawrence pop.	Special Concern			S1	2 May Be At Risk	1	49.0 ± 1.0
A	<i>Falco peregrinus</i> pop. 1	Peregrine Falcon - anatum/tundrius	Special Concern	Special Concern	Vulnerable	S1B	3 Sensitive	2	11.6 ± 7.07
A	<i>Passerculus sandwichensis princeps</i>	Savannah Sparrow princeps ssp	Special Concern	Special Concern		S1B	3 Sensitive	1	63.5 ± 7.07
A	<i>Asio flammeus</i>	Short-eared Owl	Special Concern	Special Concern		S1S2	2 May Be At Risk	5	48.4 ± 0.15
A	<i>Histrionicus histrionicus</i> pop. 1	Harlequin Duck - Eastern pop.	Special Concern	Special Concern	Endangered	S2N	1 At Risk	21	20.4 ± 16.6
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2S3B	2 May Be At Risk	171	9.1 ± 7.07
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	3 Sensitive	10	50.0 ± 0.1
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern			S3S4B	3 Sensitive	199	11.6 ± 7.07
A	<i>Tryngites subruficollis</i>	Buff-breasted Sandpiper	Special Concern			SNA	8 Accidental	1	47.9 ± 0.5
A	<i>Lynx canadensis</i>	Canadian Lynx	Not At Risk		Endangered	S1	1 At Risk	41	20.6 ± 1.0
A	<i>Sorex dispar</i>	Long-tailed Shrew	Not At Risk	Special Concern		S1	3 Sensitive	7	53.7 ± 0.5
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S1B	5 Undetermined	7	35.5 ± 0.15
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	4 Secure	19	7.5 ± 0.5
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	3 Sensitive	348	2.8 ± 7.07
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	3 Sensitive	11	17.6 ± 7.07
A	<i>Gavia immer</i>	Common Loon	Not At Risk			S3B,S4N	2 May Be At Risk	573	1.8 ± 0.15
A	<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4	4 Secure	57	9.1 ± 7.07
A	<i>Puma concolor</i> pop. 1	Cougar - Eastern pop.	Data Deficient			SH	5 Undetermined	33	10.4 ± 1.0
A	<i>Martes americana</i>	American Marten			Endangered	S1	1 At Risk	15	59.1 ± 1.0
A	<i>Alces americanus</i>	Moose			Endangered	S1	1 At Risk	21	60.0 ± 5.0
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1?B	5 Undetermined	3	35.2 ± 0.15
A	<i>Vireo gilvus</i>	Warbling Vireo				S1?B	5 Undetermined	6	18.9 ± 7.07
A	<i>Tringa solitaria</i>	Solitary Sandpiper				S1?B,S4S5M	4 Secure	5	40.6 ± 0.15
A	<i>Larus delawarensis</i>	Ring-billed Gull				S1?B,S5N	4 Secure	3	69.4 ± 0.15
A	<i>Nycticorax nycticorax</i>	Black-crowned Night-heron				S1B	2 May Be At Risk	1	51.1 ± 7.07
A	<i>Haematopus palliatus</i>	American Oystercatcher				S1B	5 Undetermined	7	30.9 ± 7.07
A	<i>Progne subis</i>	Purple Martin				S1B	2 May Be At Risk	3	79.9 ± 0.15
A	<i>Alca torda</i>	Razorbill				S1B,S4N	3 Sensitive	8	88.8 ± 7.07
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B,S5M	4 Secure	58	11.8 ± 0.5
A	<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S1S2	5 Undetermined	7	41.1 ± 0.15
A	<i>Passerina cyanea</i>	Indigo Bunting				S1S2B	5 Undetermined	4	35.1 ± 0.15
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1S2B,S5M	4 Secure	110	11.8 ± 0.5
A	<i>Asio otus</i>	Long-eared Owl				S2	2 May Be At Risk	25	7.3 ± 0.15
A	<i>Salmo salar</i>	Atlantic Salmon				S2	2 May Be At Risk	78	8.3 ± 0.5
A	<i>Microtus chrotorrhinus</i>	Rock Vole				S2	4 Secure	10	53.7 ± 0.5
A	<i>Pekania pennanti</i>	Fisher				S2	3 Sensitive	1	85.1 ± 0.2
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B	5 Undetermined	4	58.2 ± 7.07
A	<i>Anas acuta</i>	Northern Pintail				S2B	2 May Be At Risk	4	43.0 ± 1.0
A	<i>Anas strepera</i>	Gadwall				S2B	2 May Be At Risk	2	38.6 ± 7.07
A	<i>Rallus limicola</i>	Virginia Rail				S2B	5 Undetermined	8	2.6 ± 0.15
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	3 Sensitive	4	48.3 ± 7.07
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B	5 Undetermined	4	44.8 ± 7.07
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S2B,S4S5N	3 Sensitive	9	84.6 ± 7.07
A	<i>Bucephala clangula</i>	Common Goldeneye				S2B,S5N	4 Secure	102	1.7 ± 9.9
A	<i>Tringa semipalmata</i>	Willet				S2S3B	2 May Be At Risk	335	2.8 ± 7.07
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S2S3B	2 May Be At Risk	7	18.9 ± 7.07

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2S3B	4 Secure	28	9.1 ± 7.07
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B	2 May Be At Risk	12	11.6 ± 7.07
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S3	3 Sensitive	120	42.5 ± 7.07
A	<i>Poecile hudsonica</i>	Boreal Chickadee				S3	3 Sensitive	528	2.7 ± 7.07
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3?B	2 May Be At Risk	34	29.8 ± 7.07
A	<i>Dendroica tigrina</i>	Cape May Warbler				S3?B	3 Sensitive	47	11.5 ± 7.07
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3?B,S5N	2 May Be At Risk	95	2.7 ± 7.07
A	<i>Podilymbus podiceps</i>	Pied-billed Grebe				S3B	3 Sensitive	42	19.6 ± 7.07
A	<i>Anas discors</i>	Blue-winged Teal				S3B	2 May Be At Risk	76	2.8 ± 7.07
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	2 May Be At Risk	70	12.1 ± 0.15
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S3B	2 May Be At Risk	127	14.6 ± 0.15
A	<i>Dumetella carolinensis</i>	Gray Catbird				S3B	2 May Be At Risk	143	2.8 ± 7.07
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S3B	4 Secure	14	8.1 ± 0.15
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S5M	3 Sensitive	152	11.8 ± 0.5
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3B,S5N	4 Secure	117	7.6 ± 7.07
A	<i>Branta bernicla</i>	Brant				S3M	3 Sensitive	1	20.4 ± 16.6
A	<i>Pluvialis dominica</i>	American Golden-Plover				S3M	3 Sensitive	12	47.9 ± 0.5
A	<i>Numenius phaeopus hudsonicus</i>	Hudsonian Whimbrel				S3M	3 Sensitive	27	24.1 ± 0.9
A	<i>Limosa haemastica</i>	Hudsonian Godwit				S3M	3 Sensitive	5	47.9 ± 0.5
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	3 Sensitive	90	27.0 ± 0.5
A	<i>Calidris maritima</i>	Purple Sandpiper				S3N	3 Sensitive	23	4.9 ± 10.0
A	<i>Cephus grylle</i>	Black Guillemot				S3S4	4 Secure	72	22.5 ± 7.07
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	3 Sensitive	63	7.6 ± 7.07
A	<i>Perisoreus canadensis</i>	Gray Jay				S3S4	3 Sensitive	280	2.7 ± 7.07
A	<i>Cardinalis cardinalis</i>	Northern Cardinal				S3S4	4 Secure	3	43.3 ± 7.07
A	<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3S4	4 Secure	4	53.7 ± 0.5
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B	3 Sensitive	134	2.8 ± 7.07
A	<i>Charadrius vociferus</i>	Killdeer				S3S4B	3 Sensitive	126	2.8 ± 7.07
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B	3 Sensitive	463	2.7 ± 7.07
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3S4B	3 Sensitive	310	2.8 ± 7.07
A	<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher				S3S4B	3 Sensitive	517	2.8 ± 7.07
A	<i>Sayornis phoebe</i>	Eastern Phoebe				S3S4B	3 Sensitive	75	11.6 ± 7.07
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3S4B	3 Sensitive	76	11.6 ± 7.07
A	<i>Vermivora peregrina</i>	Tennessee Warbler				S3S4B	3 Sensitive	135	2.8 ± 7.07
A	<i>Dendroica castanea</i>	Bay-breasted Warbler				S3S4B	3 Sensitive	215	2.8 ± 7.07
A	<i>Dendroica striata</i>	Blackpoll Warbler				S3S4B	3 Sensitive	87	2.8 ± 7.07
A	<i>Wilsonia pusilla</i>	Wilson's Warbler				S3S4B	3 Sensitive	68	2.7 ± 0.15
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3S4B	3 Sensitive	153	2.8 ± 7.07
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4B	4 Secure	113	9.1 ± 7.07
A	<i>Carduelis pinus</i>	Pine Siskin				S3S4B,S5N	3 Sensitive	226	2.8 ± 7.07
A	<i>Morus bassanus</i>	Northern Gannet				SHB,S5M	4 Secure	21	25.2 ± 0.15
I	<i>Lampsilis cariosa</i>	Yellow Lampmussel	Special Concern	Special Concern	Threatened	S1	1 At Risk	14	95.1 ± 0.1
I	<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern		Threatened	S1S2	3 Sensitive	8	27.6 ± 0.1
I	<i>Danaus plexippus</i>	Monarch	Special Concern	Special Concern		S2B	3 Sensitive	17	26.0 ± 1.0
I	<i>Lycaena dorcas</i>	Dorcas Copper				S1	6 Not Assessed	13	42.6 ± 0.01
I	<i>Polygonia gracilis</i>	Hoary Comma				S1	3 Sensitive	1	74.0 ± 1.0
I	<i>Oeneis jutta</i>	Jutta Arctic				S1	2 May Be At Risk	5	34.4 ± 0.01
I	<i>Ophiogomphus aspersus</i>	Brook Snaketail				S1	2 May Be At Risk	5	24.8 ± 0.05
I	<i>Ophiogomphus mainensis</i>	Maine Snaketail				S1	2 May Be At Risk	1	65.9 ± 0.1
I	<i>Neurocordulia michaeli</i>	Broadtailed Shadowdragon				S1		22	67.7 ± 0.05
I	<i>Somatochlora williamsoni</i>	Williamson's Emerald				S1	2 May Be At Risk	10	79.5 ± 0.2
I	<i>Coenagrion interrogatum</i>	Subarctic Bluet				S1	2 May Be At Risk	2	95.2 ± 0.15
I	<i>Leptodea ochracea</i>	Tidewater Mucket				S1	3 Sensitive	17	92.0 ± 1.45
I	<i>Papilio brevicauda</i>	Short-tailed Swallowtail				S1S2	3 Sensitive	4	74.0 ± 1.0
I	<i>Nymphalis l-album</i>	Compton Tortoiseshell				S1S2	4 Secure	1	42.2 ± 1.0
I	<i>Thorybes pylades</i>	Northern Cloudywing				S2	3 Sensitive	8	40.5 ± 0.01
I	<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S2	4 Secure	1	82.3 ± 0.01

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
I	<i>Pieris oleracea</i>	Mustard White				S2	3 Sensitive	55	18.9 ± 0.01
I	<i>Lycaena dospassosi</i>	Salt Marsh Copper				S2	1 At Risk	1	56.7 ± 0.05
I	<i>Callophrys henrici</i>	Henry's Elfin				S2	4 Secure	1	64.3 ± 0.01
I	<i>Strymon melinus</i>	Grey Hairstreak				S2	4 Secure	1	27.8 ± 0.1
I	<i>Boloria chariclea</i>	Arctic Fritillary				S2	3 Sensitive	2	66.1 ± 1.0
I	<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2	4 Secure	1	74.0 ± 1.0
I	<i>Gomphus descriptus</i>	Harpoon Clubtail				S2	3 Sensitive	16	24.8 ± 0.05
I	<i>Somatochlora forcipata</i>	Forcipate Emerald				S2	2 May Be At Risk	7	67.4 ± 1.0
I	<i>Somatochlora septentrionalis</i>	Muskeg Emerald				S2	3 Sensitive	12	78.3 ± 0.05
I	<i>Lampsilis radiata</i>	Eastern Lampmussel				S2	3 Sensitive	20	24.1 ± 0.1
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S2B	3 Sensitive	2	74.1 ± 1.0
I	<i>Erynnis juvenalis</i>	Juvenal's Duskywing				S2S3	4 Secure	1	51.7 ± 1.0
I	<i>Alasmidonta undulata</i>	Triangle Floater				S2S3	4 Secure	5	23.0 ± 0.25
I	<i>Hesperia comma</i>	Common Branded Skipper				S3	4 Secure	22	33.6 ± 7.07
I	<i>Euphydryas phaeton</i>	Baltimore Checkerspot				S3	4 Secure	9	19.7 ± 1.0
I	<i>Polygonia faunus</i>	Green Comma				S3	4 Secure	12	36.7 ± 0.05
I	<i>Lethe anthedon</i>	Northern Pearly-Eye				S3	4 Secure	9	34.4 ± 0.05
I	<i>Lanthus parvulus</i>	Northern Pygmy Clubtail				S3	4 Secure	41	42.5 ± 1.0
I	<i>Ophiogomphus carolus</i>	Riffle Snaketail				S3	4 Secure	47	19.0 ± 0.05
I	<i>Aeshna clepsydra</i>	Mottled Darner				S3	4 Secure	3	14.9 ± 0.05
I	<i>Boyeria grafiana</i>	Ocellated Darner				S3	3 Sensitive	4	90.9 ± 1.0
I	<i>Gomphaeschna furcillata</i>	Harlequin Darner				S3	3 Sensitive	3	13.6 ± 0.05
I	<i>Somatochlora tenebrosa</i>	Clamp-Tipped Emerald				S3	4 Secure	2	88.9 ± 0.05
I	<i>Nannothemis bella</i>	Elfin Skimmer				S3	4 Secure	3	13.6 ± 0.05
I	<i>Sympetrum danae</i>	Black Meadowhawk				S3	3 Sensitive	10	21.0 ± 0.05
I	<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3	4 Secure	11	38.7 ± 0.05
I	<i>Polygonia interrogationis</i>	Question Mark				S3B	4 Secure	17	27.8 ± 0.1
I	<i>Callophrys polios</i>	Hoary Elfin				S3S4	4 Secure	2	40.2 ± 1.0
I	<i>Speyeria cybele cybele</i>	Great Spangled Fritillary				S3S4	4 Secure	1	72.8 ± 0.01
I	<i>Speyeria aphrodite</i>	Aphrodite Fritillary				S3S4	4 Secure	2	49.3 ± 1.0
I	<i>Polygonia progne</i>	Grey Comma				S3S4	4 Secure	17	20.4 ± 0.01
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1S2	1 At Risk	271	28.5 ± 0.5
N	<i>Degelia plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S2	4 Secure	27	16.0 ± 0.1
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen				S1?	2 May Be At Risk	6	66.1 ± 0.01
N	<i>Nephroma arcticum</i>	Arctic Kidney Lichen				S1S2	2 May Be At Risk	1	56.8 ± 0.5
N	<i>Conardia compacta</i>	Coast Creeping Moss				S2?	3 Sensitive	2	57.1 ± 2.0
N	<i>Paludella squarrosa</i>	Tufted Fen Moss				S2?	3 Sensitive	1	75.9 ± 5.0
N	<i>Platydictya jungermannioides</i>	False Willow Moss				S2?	3 Sensitive	1	47.9 ± 0.01
N	<i>Scorpidium scorpioides</i>	Hooked Scorpion Moss				S2?	3 Sensitive	5	45.3 ± 0.5
N	<i>Calliergon giganteum</i>	Giant Spear Moss				S2S3	3 Sensitive	1	53.8 ± 0.01
N	<i>Leucodon andrewsianus</i>	a Moss				S2S3	3 Sensitive	1	91.7 ± 0.01
N	<i>Tortella fragilis</i>	Fragile Twisted Moss				S2S3	3 Sensitive	2	79.2 ± 0.01
N	<i>Limprichtia revolvens</i>	a Moss				S2S3	3 Sensitive	1	65.9 ± 0.01
N	<i>Hylocomiastrum pyrenaicum</i>	a Feather Moss				S2S3	3 Sensitive	1	70.2 ± 3.0
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S2S3	3 Sensitive	1	87.2 ± 0.01
N	<i>Usnea mutabilis</i>	Bloody Beard Lichen				S2S3	3 Sensitive	1	37.5 ± 0.5
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S2S3	3 Sensitive	3	16.0 ± 0.1
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3?	3 Sensitive	2	65.4 ± 0.01
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3?	3 Sensitive	1	56.8 ± 0.5
N	<i>Collema furfuraceum</i>	Blistered Tarpaper Lichen				S3?	3 Sensitive	1	56.8 ± 0.5
P	<i>Juncus caesariensis</i>	New Jersey Rush	Special Concern	Special Concern	Vulnerable	S2	3 Sensitive	239	45.3 ± 0.1
P	<i>Floerkea proserpinacoides</i>	False Mermaidweed	Not At Risk			S2	3 Sensitive	19	15.2 ± 7.07
P	<i>Salix candida</i>	Sage Willow			Endangered	S1	2 May Be At Risk	34	65.0 ± 0.01
P	<i>Sanicula odorata</i>	Clustered Sanicle				S1	2 May Be At Risk	6	56.2 ± 3.0
P	<i>Zizia aurea</i>	Golden Alexanders				S1	2 May Be At Risk	7	41.1 ± 1.0
P	<i>Arnica lonchophylla</i>	Northern Arnica				S1	2 May Be At Risk	1	24.1 ± 7.07

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P	<i>Bidens hyperborea</i>	Estuary Beggarticks				S1	2 May Be At Risk	3	49.0 ± 1.0
P	<i>Ageratina altissima</i>	White Snakeroot				S1	2 May Be At Risk	2	48.3 ± 7.07
P	<i>Cardamine pratensis</i> var. <i>angustifolia</i>	Cuckoo Flower				S1	2 May Be At Risk	3	33.7 ± 0.5
P	<i>Cochlearia tridactylites</i>	Limestone Scurvy-grass				S1	2 May Be At Risk	10	37.4 ± 0.1
P	<i>Lobelia kalmii</i>	Brook Lobelia				S1	2 May Be At Risk	29	37.4 ± 0.05
P	<i>Stellaria crassifolia</i>	Fleshy Stitchwort				S1	2 May Be At Risk	1	41.6 ± 2.0
P	<i>Suaeda maritima</i> ssp. <i>richii</i>	White Sea-blite				S1	5 Undetermined	4	21.0 ± 2.5
P	<i>Hudsonia tomentosa</i>	Woolly Beach-heath				S1	2 May Be At Risk	6	40.8 ± 1.7
P	<i>Hypericum majus</i>	Large St John's-wort				S1	2 May Be At Risk	2	59.3 ± 1.0
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S1	2 May Be At Risk	3	38.6 ± 7.07
P	<i>Polygonum viviparum</i>	Alpine Bistort				S1	2 May Be At Risk	1	34.0 ± 1.0
P	<i>Montia fontana</i>	Water Blinks				S1	2 May Be At Risk	2	7.8 ± 3.0
P	<i>Galium aparine</i>	Common Bedstraw				S1	7 Exotic	1	87.7 ± 4.0
P	<i>Scrophularia lanceolata</i>	Lance-leaved Figwort				S1	5 Undetermined	2	21.0 ± 1.5
P	<i>Pilea pumila</i>	Dwarf Clearweed				S1	2 May Be At Risk	1	88.5 ± 6.0
P	<i>Viola canadensis</i>	Canada Violet				S1	0.1 Extirpated	1	55.1 ± 0.25
P	<i>Carex alopecoidea</i>	Foxtail Sedge				S1	2 May Be At Risk	2	38.8 ± 0.5
P	<i>Carex gynocrates</i>	Northern Bog Sedge				S1	2 May Be At Risk	2	67.0 ± 0.1
P	<i>Carex haydenii</i>	Hayden's Sedge				S1	2 May Be At Risk	1	70.8 ± 5.0
P	<i>Carex livida</i> var. <i>radicalis</i>	Livid Sedge				S1	2 May Be At Risk	23	36.4 ± 5.0
P	<i>Carex tenuiflora</i>	Sparse-Flowered Sedge				S1	2 May Be At Risk	3	42.9 ± 1.0
P	<i>Carex tinctoria</i>	Tinged Sedge				S1	2 May Be At Risk	2	35.3 ± 1.0
P	<i>Carex viridula</i> var. <i>elatior</i>	Greenish Sedge				S1	2 May Be At Risk	15	65.1 ± 0.01
P	<i>Carex grisea</i>	Inflated Narrow-leaved Sedge				S1	2 May Be At Risk	5	48.0 ± 0.01
P	<i>Cyperus lupulinus</i> ssp. <i>macilentus</i>	Hop Flatseed				S1	2 May Be At Risk	8	40.8 ± 1.6
P	<i>Rhynchospora capillacea</i>	Slender Beakrush				S1	2 May Be At Risk	6	56.4 ± 10.0
P	<i>Scirpus pedicellatus</i>	Stalked Bulrush				S1	5 Undetermined	4	14.9 ± 0.01
P	<i>Iris prismatica</i>	Slender Blue Flag				S1	2 May Be At Risk	4	64.5 ± 1.5
P	<i>Triantha glutinosa</i>	Sticky False-Asphodel				S1	2 May Be At Risk	10	65.0 ± 0.01
P	<i>Malaxis brachypoda</i>	White Adder's-Mouth				S1	2 May Be At Risk	1	17.6 ± 7.07
P	<i>Bromus latiglumis</i>	Broad-Glumed Brome				S1	2 May Be At Risk	11	14.6 ± 0.01
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S1	2 May Be At Risk	18	13.9 ± 0.01
P	<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S1	2 May Be At Risk	8	18.4 ± 0.01
P	<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale False Manna Grass				S1	0.1 Extirpated	2	85.8 ± 1.5
P	<i>Trisetum melicoides</i>	Purple False Oats				S1	2 May Be At Risk	2	94.7 ± 0.01
P	<i>Potamogeton nodosus</i>	Long-leaved Pondweed				S1	2 May Be At Risk	1	82.6 ± 5.0
P	<i>Cryptogramma stelleri</i>	Steller's Rockbrake				S1	2 May Be At Risk	17	50.8 ± 0.01
P	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern				S1	2 May Be At Risk	5	50.3 ± 10.0
P	<i>Equisetum palustre</i>	Marsh Horsetail				S1	2 May Be At Risk	8	55.0 ± 0.01
P	<i>Atriplex acadiensis</i>	Maritime Saltbush				S1?	5 Undetermined	4	85.9 ± 0.5
P	<i>Chenopodium rubrum</i>	Red Pigweed				S1?	2 May Be At Risk	3	51.1 ± 7.07
P	<i>Crataegus robinsonii</i>	Robinson's Hawthorn				S1?	5 Undetermined	1	97.9 ± 50.0
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S1?	5 Undetermined	2	68.1 ± 7.07
P	<i>Rubus flagellaris</i>	Northern Dewberry				S1?	5 Undetermined	2	34.1 ± 5.0
P	<i>Schoenoplectus robustus</i>	Sturdy Bulrush				S1?	5 Undetermined	2	73.6 ± 5.0
P	<i>Triglochin gaspensis</i>	Gasp Arrowgrass				S1?	5 Undetermined	5	10.6 ± 0.01
P	<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S1S2	1 At Risk	2	54.0 ± 0.01
P	<i>Cornus suecica</i>	Swedish Bunchberry				S1S2	3 Sensitive	3	36.5 ± 6.0
P	<i>Utricularia resupinata</i>	Inverted Bladderwort				S1S2	2 May Be At Risk	1	58.0 ± 0.8
P	<i>Anemone virginiana</i> var. <i>alba</i>	Virginia Anemone				S1S2	3 Sensitive	6	50.5 ± 1.5
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup				S1S2	2 May Be At Risk	1	79.7 ± 7.07
P	<i>Carex bebbii</i>	Bebb's Sedge				S1S2	2 May Be At Risk	22	47.6 ± 7.07
P	<i>Carex tenera</i>	Tender Sedge				S1S2	3 Sensitive	3	23.6 ± 1.0
P	<i>Juncus greenei</i>	Greene's Rush				S1S2	2 May Be At Risk	1	40.9 ± 1.5
P	<i>Juncus stygius</i> ssp. <i>americanus</i>	Moor Rush				S1S2	3 Sensitive	30	41.1 ± 1.0
P	<i>Juncus alpinoarticulatus</i> ssp. <i>nodulosus</i>	Richardson's Rush				S1S2	2 May Be At Risk	10	32.0 ± 1.0
P	<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass				S1S2	3 Sensitive	1	76.0 ± 1.0

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P	<i>Sparganium hyperboreum</i>	Northern Burreed				S1S2	3 Sensitive	4	45.2 ± 0.1
P	<i>Carex vacillans</i>	Estuarine Sedge				S1S3	5 Undetermined	1	38.8 ± 0.5
P	<i>Huperzia appalachiana</i>	Appalachian Fir-Clubmoss				S1S3	5 Undetermined	1	51.2 ± 1.0
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2	2 May Be At Risk	15	35.1 ± 1.0
P	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane				S2	3 Sensitive	6	44.8 ± 7.07
P	<i>Hieracium robinsonii</i>	Robinson's Hawkweed				S2	3 Sensitive	2	98.0 ± 1.6
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S2	5 Undetermined	2	48.3 ± 7.07
P	<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S2	3 Sensitive	13	5.9 ± 1.0
P	<i>Impatiens pallida</i>	Pale Jewelweed				S2	3 Sensitive	10	19.1 ± 1.0
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2	2 May Be At Risk	17	18.5 ± 0.01
P	<i>Betula borealis</i>	Northern Birch				S2	3 Sensitive	2	58.8 ± 7.07
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch				S2	3 Sensitive	6	56.1 ± 0.01
P	<i>Arabis drummondii</i>	Drummond's Rockcross				S2	3 Sensitive	1	97.8 ± 1.0
P	<i>Draba arabisans</i>	Rock Whitlow-Grass				S2	3 Sensitive	3	52.6 ± 1.6
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort				S2	3 Sensitive	4	81.7 ± 0.1
P	<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed				S2	3 Sensitive	81	35.5 ± 0.01
P	<i>Crassula aquatica</i>	Water Pygmyweed				S2	3 Sensitive	3	33.6 ± 7.07
P	<i>Shepherdia canadensis</i>	Soapberry				S2	3 Sensitive	42	54.7 ± 0.01
P	<i>Vaccinium boreale</i>	Northern Blueberry				S2	2 May Be At Risk	15	36.8 ± 1.0
P	<i>Vaccinium caespitosum</i>	Dwarf Bilberry				S2	3 Sensitive	19	66.9 ± 0.01
P	<i>Vaccinium uliginosum</i>	Alpine Bilberry				S2	3 Sensitive	3	76.6 ± 0.5
P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2	3 Sensitive	4	19.6 ± 7.07
P	<i>Oenothera fruticosa ssp. glauca</i>	Narrow-leaved Evening Primrose				S2	5 Undetermined	1	73.3 ± 1.5
P	<i>Rumex salicifolius var. mexicanus</i>	Triangular-valve Dock				S2	3 Sensitive	8	13.4 ± 6.0
P	<i>Samolus valerandi ssp. parviflorus</i>	Seaside Brookweed				S2	3 Sensitive	4	48.2 ± 0.01
P	<i>Pyrola minor</i>	Lesser Pyrola				S2	3 Sensitive	5	51.1 ± 2.0
P	<i>Anemone canadensis</i>	Canada Anemone				S2	2 May Be At Risk	2	22.0 ± 3.0
P	<i>Anemone quinquefolia</i>	Wood Anemone				S2	3 Sensitive	6	68.3 ± 0.4
P	<i>Anemone virginiana</i>	Virginia Anemone				S2	3 Sensitive	16	46.3 ± 0.01
P	<i>Caltha palustris</i>	Yellow Marsh Marigold				S2	3 Sensitive	17	58.2 ± 1.5
P	<i>Galium labradoricum</i>	Labrador Bedstraw				S2	3 Sensitive	34	65.0 ± 0.01
P	<i>Salix pedicellaris</i>	Bog Willow				S2	3 Sensitive	12	36.4 ± 0.01
P	<i>Comandra umbellata</i>	Bastard's Toadflax				S2	2 May Be At Risk	11	39.4 ± 0.01
P	<i>Parnassia palustris var. parviflora</i>	Marsh Grass-of-Parnassus				S2	2 May Be At Risk	12	59.2 ± 1.2
P	<i>Saxifraga paniculata ssp. neogaea</i>	White Mountain Saxifrage				S2	3 Sensitive	4	48.8 ± 7.07
P	<i>Viola nephrophylla</i>	Northern Bog Violet				S2	3 Sensitive	4	34.8 ± 1.0
P	<i>Carex atlantica ssp. capillacea</i>	Atlantic Sedge				S2	5 Undetermined	5	43.1 ± 7.07
P	<i>Carex atratiformis</i>	Scabrous Black Sedge				S2	3 Sensitive	2	50.3 ± 7.07
P	<i>Carex comosa</i>	Bearded Sedge				S2	3 Sensitive	1	79.0 ± 1.5
P	<i>Carex hystericina</i>	Porcupine Sedge				S2	2 May Be At Risk	36	35.7 ± 0.01
P	<i>Eleocharis quinqueflora</i>	Few-flowered Spikerush				S2	2 May Be At Risk	26	48.1 ± 0.01
P	<i>Eriophorum gracile</i>	Slender Cottongrass				S2	3 Sensitive	1	50.1 ± 1.0
P	<i>Juncus trifidus</i>	Highland Rush				S2	3 Sensitive	2	53.2 ± 0.75
P	<i>Allium schoenoprasum var. sibiricum</i>	Wild Chives				S2	2 May Be At Risk	3	22.5 ± 7.07
P	<i>Cypripedium parviflorum var. pubescens</i>	Yellow Lady's-slipper				S2	3 Sensitive	4	11.6 ± 7.07
P	<i>Cypripedium parviflorum var. makasin</i>	Small Yellow Lady's-Slipper				S2	3 Sensitive	2	57.2 ± 0.1
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S2	2 May Be At Risk	176	21.7 ± 0.01
P	<i>Listera australis</i>	Southern Twayblade				S2	2 May Be At Risk	35	0.3 ± 0.01
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2	2 May Be At Risk	26	46.4 ± 0.01
P	<i>Potamogeton friesii</i>	Fries' Pondweed				S2	2 May Be At Risk	6	19.5 ± 0.01
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort				S2	3 Sensitive	3	7.7 ± 0.2
P	<i>Asplenium trichomanes-ramosum</i>	Green Spleenwort				S2	3 Sensitive	21	48.4 ± 1.0
P	<i>Dryopteris fragrans var. remotiuscula</i>	Fragrant Wood Fern				S2	3 Sensitive	2	7.6 ± 7.07
P	<i>Polystichum lonchitis</i>	Northern Holly Fern				S2	3 Sensitive	5	31.9 ± 5.0
P	<i>Woodsia glabella</i>	Smooth Cliff Fern				S2	3 Sensitive	6	50.3 ± 7.07
P	<i>Equisetum pratense</i>	Meadow Horsetail				S2	3 Sensitive	7	66.9 ± 0.01

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P	<i>Selaginella selaginoides</i>	Low Spikemoss				S2	2 May Be At Risk	2	41.3 ± 0.8
P	<i>Hieracium kalmii</i>	Kalm's Hawkweed				S2?	5 Undetermined	6	61.9 ± 0.13
P	<i>Symphotrichum boreale</i>	Boreal Aster				S2?	3 Sensitive	8	52.4 ± 0.01
P	<i>Epilobium coloratum</i>	Purple-veined Willowherb				S2?	3 Sensitive	2	49.0 ± 0.5
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2?	5 Undetermined	2	36.8 ± 1.0
P	<i>Eleocharis ovata</i>	Ovate Spikerush				S2?	3 Sensitive	1	36.6 ± 0.01
P	<i>Juncus dudleyi</i>	Dudley's Rush				S2?	3 Sensitive	73	46.4 ± 0.01
P	<i>Fraxinus nigra</i>	Black Ash			Threatened	S2S3	3 Sensitive	35	18.5 ± 0.01
P	<i>Asclepias incarnata ssp. pulchra</i>	Swamp Milkweed				S2S3	5 Undetermined	6	46.3 ± 1.0
P	<i>Symphotrichum ciliolatum</i>	Fringed Blue Aster				S2S3	3 Sensitive	1	61.3 ± 7.07
P	<i>Betula pumila</i>	Bog Birch				S2S3	3 Sensitive	7	65.9 ± 0.01
P	<i>Sagina nodosa</i>	Knotted Pearlwort				S2S3	4 Secure	3	34.1 ± 5.0
P	<i>Suaeda calceoliformis</i>	Horned Sea-blite				S2S3	4 Secure	1	90.2 ± 1.0
P	<i>Hypericum dissimulatum</i>	Disguised St John's-wort				S2S3	3 Sensitive	2	27.3 ± 1.0
P	<i>Empetrum eamesii ssp. atropurpureum</i>	Pink Crowberry				S2S3	3 Sensitive	1	34.4 ± 3.0
P	<i>Halenia deflexa</i>	Spurred Gentian				S2S3	3 Sensitive	5	22.8 ± 0.1
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3	3 Sensitive	1	65.7 ± 5.0
P	<i>Polygonum buxiforme</i>	Small's Knotweed				S2S3	5 Undetermined	1	99.5 ± 7.07
P	<i>Polygonum raii</i>	Sharp-fruited Knotweed				S2S3	5 Undetermined	9	25.4 ± 1.0
P	<i>Salix pellita</i>	Satiny Willow				S2S3	5 Undetermined	4	6.2 ± 1.6
P	<i>Veronica serpyllifolia ssp. humifusa</i>	Thyme-Leaved Speedwell				S2S3	3 Sensitive	1	87.1 ± 0.01
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	3 Sensitive	1	86.6 ± 5.0
P	<i>Carex hirtifolia</i>	Pubescent Sedge				S2S3	3 Sensitive	4	18.3 ± 0.01
P	<i>Eleocharis olivacea</i>	Yellow Spikerush				S2S3	3 Sensitive	3	53.3 ± 0.1
P	<i>Lilium canadense</i>	Canada Lily				S2S3	3 Sensitive	28	13.9 ± 0.01
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper				S2S3	3 Sensitive	38	37.6 ± 0.01
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S2S3	3 Sensitive	1	98.8 ± 0.0
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail				S2S3	3 Sensitive	13	19.5 ± 0.01
P	<i>Poa glauca</i>	Glaucous Blue Grass				S2S3	3 Sensitive	9	50.8 ± 0.01
P	<i>Stuckenia filiformis ssp. alpina</i>	Thread-leaved Pondweed				S2S3	5 Undetermined	29	13.5 ± 0.01
P	<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed				S2S3	3 Sensitive	18	19.5 ± 0.01
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed				S2S3	2 May Be At Risk	8	23.3 ± 1.0
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S2S3	3 Sensitive	8	60.1 ± 7.07
P	<i>Botrychium lanceolatum var. angustisegmentum</i>	Lance-Leaf Grape-Fern				S2S3	3 Sensitive	6	37.1 ± 0.25
P	<i>Botrychium simplex</i>	Least Moonwort				S2S3	3 Sensitive	3	42.2 ± 5.0
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3	3 Sensitive	1	97.8 ± 5.0
P	<i>Asclepias incarnata</i>	Swamp Milkweed				S3	4 Secure	62	31.3 ± 7.07
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3	3 Sensitive	28	53.0 ± 0.01
P	<i>Megalodonta beckii</i>	Water Beggarticks				S3	3 Sensitive	8	53.2 ± 0.5
P	<i>Packera paupercula</i>	Balsam Groundsel				S3	4 Secure	43	13.3 ± 5.0
P	<i>Campanula aparinooides</i>	Marsh Bellflower				S3	3 Sensitive	5	48.4 ± 5.0
P	<i>Stellaria longifolia</i>	Long-leaved Starwort				S3	3 Sensitive	1	18.9 ± 0.01
P	<i>Empetrum eamesii</i>	Pink Crowberry				S3	3 Sensitive	1	88.9 ± 0.01
P	<i>Chamaesyce polygonifolia</i>	Seaside Spurge				S3	4 Secure	11	25.5 ± 0.01
P	<i>Bartonia virginica</i>	Yellow Bartonia				S3	4 Secure	1	35.2 ± 0.1
P	<i>Proserpinaca palustris</i>	Marsh Mermaidweed				S3	4 Secure	6	14.3 ± 0.01
P	<i>Proserpinaca palustris var. crebra</i>	Marsh Mermaidweed				S3	4 Secure	15	14.2 ± 0.01
P	<i>Teucrium canadense</i>	Canada Germander				S3	3 Sensitive	13	17.5 ± 0.5
P	<i>Decodon verticillatus</i>	Swamp Loosestrife				S3	3 Sensitive	3	35.2 ± 7.07
P	<i>Epilobium hornemannii</i>	Hornemann's Willowherb				S3	3 Sensitive	5	83.0 ± 2.5
P	<i>Epilobium strictum</i>	Downy Willowherb				S3	3 Sensitive	10	13.5 ± 5.0
P	<i>Polygonum pennsylvanicum</i>	Pennsylvania Smartweed				S3	4 Secure	8	13.6 ± 10.0
P	<i>Polygonum scandens</i>	Climbing False Buckwheat				S3	3 Sensitive	13	14.2 ± 0.01
P	<i>Primula laurentiana</i>	Laurentian Primrose				S3	4 Secure	1	94.5 ± 7.07
P	<i>Pyrola asarifolia</i>	Pink Pyrola				S3	4 Secure	3	65.9 ± 0.01
P	<i>Ranunculus gmelinii</i>	Gmelin's Water Buttercup				S3	4 Secure	41	15.5 ± 0.4

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P	<i>Rhamnus alnifolia</i>	Alder-leaved Buckthorn				S3	3 Sensitive	63	14.7 ± 0.01
P	<i>Agrimonia gryposepala</i>	Hooked Agrimony				S3	4 Secure	143	18.2 ± 0.01
P	<i>Galium kamtschaticum</i>	Northern Wild Licorice				S3	4 Secure	5	54.3 ± 1.0
P	<i>Salix petiolaris</i>	Meadow Willow				S3	4 Secure	4	36.4 ± 0.01
P	<i>Geocaulon lividum</i>	Northern Comandra				S3	3 Sensitive	2	0.5 ± 0.01
P	<i>Limosella australis</i>	Southern Mudwort				S3	3 Sensitive	3	42.2 ± 5.0
P	<i>Laportea canadensis</i>	Canada Wood Nettle				S3	3 Sensitive	15	14.3 ± 0.01
P	<i>Verbena hastata</i>	Blue Vervain				S3	4 Secure	6	47.9 ± 0.1
P	<i>Carex eburnea</i>	Bristle-leaved Sedge				S3	3 Sensitive	58	48.7 ± 5.0
P	<i>Carex lupulina</i>	Hop Sedge				S3	4 Secure	1	69.0 ± 6.0
P	<i>Carex rosea</i>	Rosy Sedge				S3	4 Secure	3	69.2 ± 4.0
P	<i>Schoenoplectus americanus</i>	Olney's Bulrush				S3	3 Sensitive	2	39.3 ± 0.01
P	<i>Juncus subcaudatus</i> var. <i>planisepalus</i>	Woods-Rush				S3	3 Sensitive	3	45.8 ± 1.0
P	<i>Corallorhiza trifida</i>	Early Coralroot				S3	4 Secure	8	25.5 ± 0.8
P	<i>Goodyera oblongifolia</i>	Menzies' Rattlesnake-plantain				S3	3 Sensitive	12	78.8 ± 10.0
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3	3 Sensitive	16	19.9 ± 0.01
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	4 Secure	12	13.9 ± 0.01
P	<i>Platanthera hookeri</i>	Hooker's Orchid				S3	4 Secure	3	7.7 ± 0.1
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3	4 Secure	4	35.2 ± 5.0
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass				S3	4 Secure	79	67.0 ± 0.01
P	<i>Sparganium natans</i>	Small Burreed				S3	4 Secure	4	48.9 ± 0.5
P	<i>Equisetum variegatum</i>	Variiegated Horsetail				S3	4 Secure	29	46.4 ± 0.01
P	<i>Isoetes acadensis</i>	Acadian Quillwort				S3	3 Sensitive	2	26.1 ± 1.0
P	<i>Botrychium dissectum</i>	Cut-leaved Moonwort				S3	4 Secure	2	69.0 ± 1.0
P	<i>Schizaea pusilla</i>	Little Curlygrass Fern				S3	4 Secure	6	24.5 ± 1.0
P	<i>Amelanchier stolonifera</i>	Running Serviceberry				S3?	4 Secure	2	29.5 ± 5.0
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3?	4 Secure	9	14.9 ± 0.7
P	<i>Carex tribuloides</i>	Blunt Broom Sedge				S3?	4 Secure	2	18.7 ± 1.0
P	<i>Carex foenea</i>	Fernald's Hay Sedge				S3?	4 Secure	1	74.7 ± 0.01
P	<i>Elodea canadensis</i>	Canada Waterweed				S3?	4 Secure	4	74.4 ± 0.01
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S3?	3 Sensitive	13	23.7 ± 0.1
P	<i>Lycopodium sabinifolium</i>	Ground-Fir				S3?	4 Secure	8	52.9 ± 1.0
P	<i>Lycopodium sitchense</i>	Sitka Clubmoss				S3?	4 Secure	5	63.6 ± 1.0
P	<i>Polypodium appalachianum</i>	Appalachian Polypody				S3?	5 Undetermined	1	43.8 ± 0.01
P	<i>Angelica atropurpurea</i>	Purple-stemmed Angelica				S3S4	4 Secure	25	12.9 ± 0.01
P	<i>Angelica sylvestris</i>	Woodland Angelica				S3S4	4 Secure	1	47.7 ± 1.5
P	<i>Pseudognaphalium obtusifolium</i>	Eastern Cudweed				S3S4	4 Secure	3	42.5 ± 5.0
P	<i>Atriplex franktonii</i>	Frankton's Saltbush				S3S4	4 Secure	3	60.2 ± 2.5
P	<i>Myriophyllum sibiricum</i>	Siberian Water Milfoil				S3S4	4 Secure	5	61.6 ± 2.0
P	<i>Utricularia gibba</i>	Humped Bladderwort				S3S4	4 Secure	2	51.5 ± 0.05
P	<i>Sanguinaria canadensis</i>	Bloodroot				S3S4	4 Secure	113	18.3 ± 0.01
P	<i>Polygonum robustius</i>	Stout Smartweed				S3S4	4 Secure	18	18.4 ± 0.01
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimperel				S3S4	4 Secure	2	18.2 ± 0.01
P	<i>Carex argyrantha</i>	Silvery-flowered Sedge				S3S4	4 Secure	1	68.3 ± 0.5
P	<i>Eriophorum chamissonis</i>	Russet Cotton-Grass				S3S4	4 Secure	4	6.7 ± 1.5
P	<i>Sisyrinchium angustifolium</i>	Narrow-leaved Blue-eyed-grass				S3S4	4 Secure	48	10.9 ± 1.0
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4	3 Sensitive	3	48.8 ± 0.01
P	<i>Luzula parviflora</i>	Small-flowered Woodrush				S3S4	4 Secure	8	75.6 ± 0.01
P	<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4	4 Secure	13	22.9 ± 1.0
P	<i>Trisetum spicatum</i>	Narrow False Oats				S3S4	4 Secure	3	53.6 ± 0.01
P	<i>Cystopteris bulbifera</i>	Bulblet Bladder Fern				S3S4	4 Secure	123	7.6 ± 1.0
P	<i>Equisetum hyemale</i> var. <i>affine</i>	Common Scouring-rush				S3S4	4 Secure	20	39.7 ± 0.01
P	<i>Equisetum scirpoides</i>	Dwarf Scouring-Rush				S3S4	4 Secure	20	49.1 ± 0.01
P	<i>Lycopodium complanatum</i>	Northern Clubmoss				S3S4	4 Secure	4	35.2 ± 5.0
P	<i>Lycopodiella appressa</i>	Southern Bog Clubmoss				S3S4	4 Secure	1	54.5 ± 1.0
P	<i>Solidago simplex</i> var. <i>randii</i>	Sticky Goldenrod				SH	0.1 Extirpated	2	24.0 ± 5.0

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P	<i>Eleocharis erythropoda</i>	Red-stemmed Spikerush				SH	0.1 Extirpated	2	45.0 ± 0.01

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The recipient of these data shall acknowledge the ACCDC 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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23	Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of <i>C. insculpta</i> sightings. Acadia University, Wolfville NS, 88 recs.
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22	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
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20	Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
20	Pulsifer, M.D. 2002. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 369 recs.

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18	Misc. rare species records gathered by NSDNR staff or communicated to NSDNR and forwarded to ACCDC
17	anon. 2001. S. H. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 76 recs.
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16	Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
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15	Newell, R.E. 2004. Assessment and update status report on the New Jersey Rush (<i>Juncus caesariensis</i>) in Canada. Committee on the Status of Endangered Wildlife in Canada, 15 recs.
15	Robinson, S.L. 2011. 2011 ND dune survey field data. Atlantic Canada Conservation Data Centre, 2715 recs.
13	Blaney, C.S. 2000. Fieldwork 2000. Atlantic Canada Conservation Data Centre. Sackville NB, 1265 recs.
13	Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
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10	Murphy, S. 2006. <i>Juncus caesariensis</i> data from Yava Technologies In Situ Leach Mining Environmental Assessment. Jacques Whitford Inc., 10 recs.
8	Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 recs.
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6	Basquill, S.P. 2012. 2012 Bryophyte specimen data. Nova Scotia Department of Natural Resources, 37 recs.
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2	Hall, R.A. 2001. S. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
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1	Standley, L.A. 2002. <i>Carex haydenii</i> in Nova Scotia. , Pers. comm. to C.S. Blaney. 4 recs.
1	Whittam, R.M. 2000. <i>Senecio pseudoarnica</i> on Country Island. , Pers. comm. to S. Gerriets. 1 rec.