



DATA REPORT 4607: Middleton, NS

Prepared 5 October, 2011
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1.0 PREFACE

The Atlantic Canada Conservation Data Centre (ACCDC) is part of a network of circa 85 NatureServe data centres and heritage programs in 50 states, 10 provinces and 1 territory, 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, Newfoundland and Labrador. Although a non-governmental agency, the ACCDC is supported by 6 federal agencies, plus 4 provincial governments, outside grants and data processing fees. URL: www.ACCDC.com.

Upon request and for a fee, the ACCDC reports known observations of rare and endangered flora and fauna, in and near a specified study area. As a supplement to that data, the ACCDC includes locations of managed areas with some level of protection, and also known sites of ecological interest. Data summarised in each report is attached as DBF files which may be opened from within data software (Excel, Access) or mapped in GIS (ArcView, MapInfo, AutoCAD).

1.1 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 receiving ACCDC data, recipients assent to the following limits of use:

- a.) Data is restricted to use by trained personnel who are sensitive to its potential threat to rare and endangered taxa.
- 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.
- d.) ACCDC data responses are restricted to that data in our Data System at the time of the data request.
- e.) Data is qualified as to location (Precision) and time (SurveyDate); cf Data Dictionary for details.
- f.) ACCDC data reports are not to be construed as exhaustive inventories of taxa in an area.
- g.) The non-occurrence of a taxon cannot be inferred by its absence in an ACCDC data report.

1.2 ADDITIONAL INFORMATION

Please direct biological questions about ACCDC data to: Sean Blaney, ACCDC: (506) 364-2658, and technical data queries to: Stefen Gerriets, ACCDC: (506) 364-2657.

For provincial information on rare taxa and protected areas, or information on game animals, deer yards, old growth forest, archeological sites, fish habitat etc, please contact Sherman Boates, NSDNR: (902) 679-6146.

2.0 RARE AND ENDANGERED TAXA

A 100km buffer around the study area contains 3940 records of 518 taxa from 139 sources, a relatively low-to-moderate density of records (quintile 2): 0.13 rec/km².

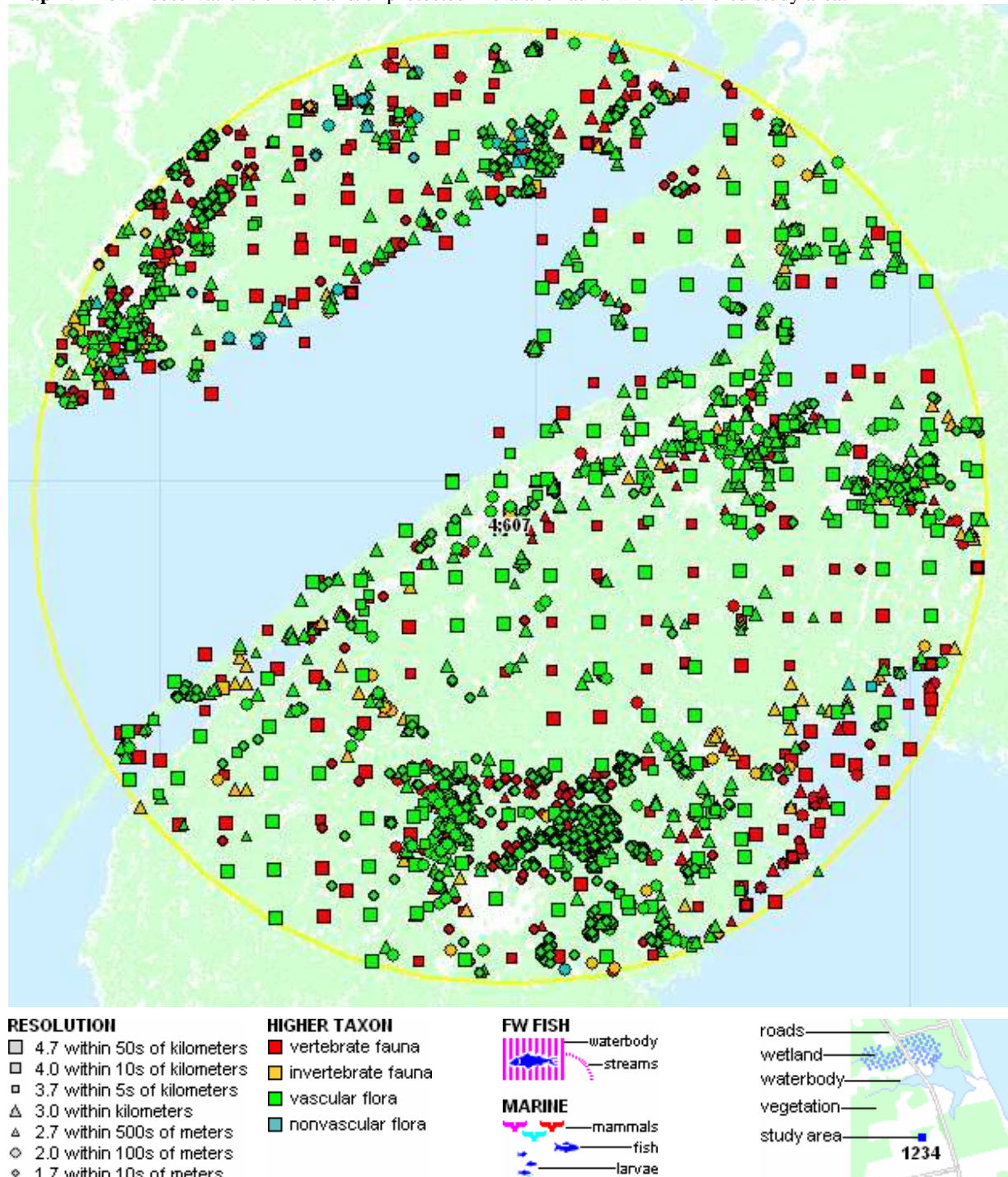
2.1 FLORA

A 100km buffer around the study area contains 2211 records of 324 vascular, 93 records of 45 nonvascular flora (see attached *ob.dbf).

2.2 FAUNA

A 100km buffer around the study area contains 1362 records of 87 vertebrate, 274 records of 62 invertebrate fauna (cf attached *ob.dbf). Sensitive data: Wood Turtles are POTENTIALLY present in the study area (cf attached WOTU.rtf). Peregrine Falcons are PRESENT in the study area (cf attached PEFA.rtf).

Map 1: Known observations of rare and/or protected flora and fauna within buffered study area.



3.0 SPECIAL AREAS

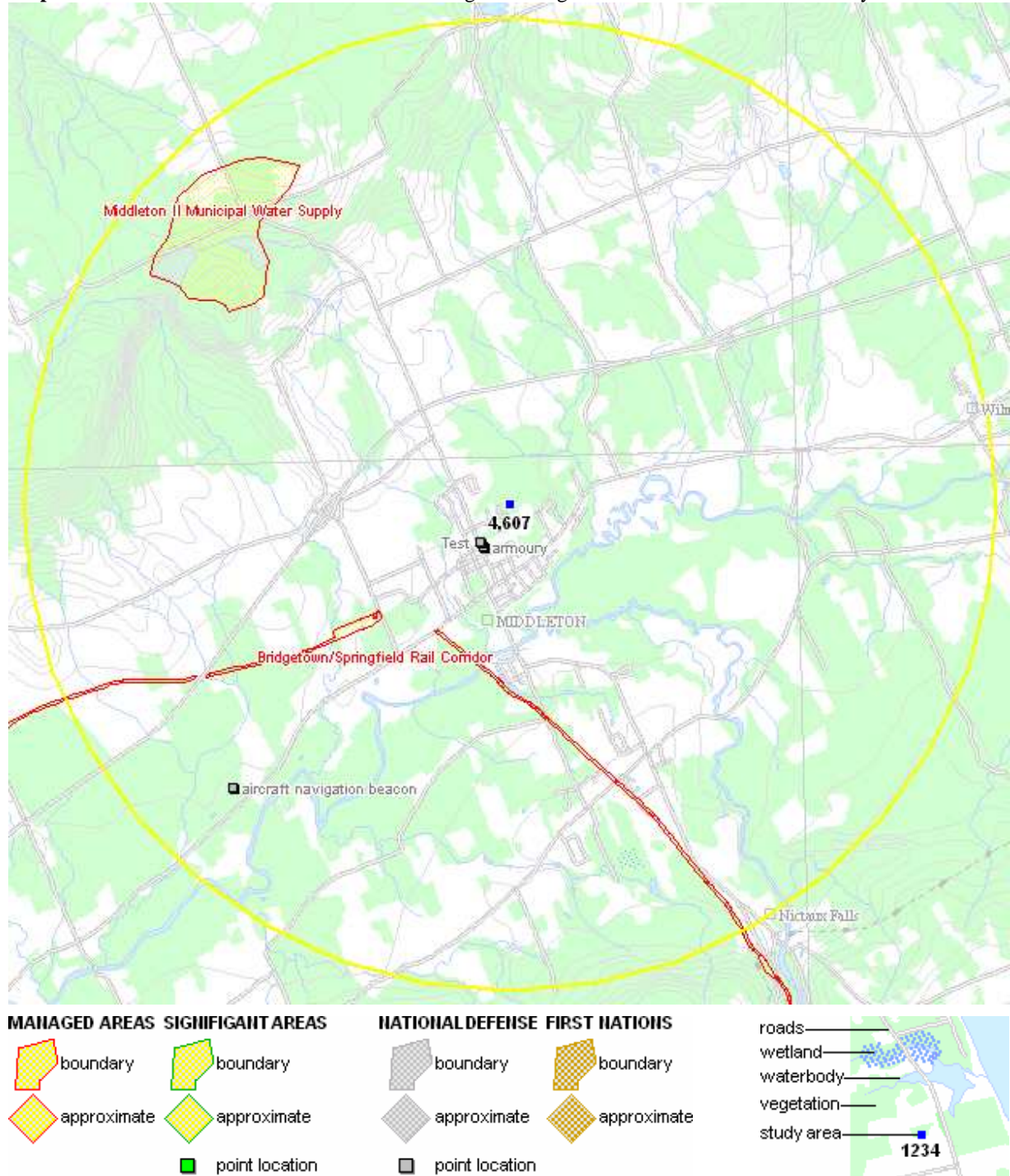
3.1 MANAGED AREAS

The GIS scan identified 2 Managed Areas with some degree of protected status, in the vicinity of the study area (see attached *ma.dbf).

3.2 SIGNIFICANT AREAS

No biologically significant sites were identified.

Map 2: Boundaries and/or locations of known Managed and Significant Areas within 5km of study area.



4.0 TAXON LISTS

Rare and/or endangered taxa within the 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	prov. rarity	prov. status	COSEWIC	obs	dist.km
n Erioderma pedicellatum (Atlantic pop.)	Boreal Felt Lichen (Atlantic pop.)	S1S2	Endangered	E	4	45 ±1
p Sabatia kennedyana	Plymouth Gentian	S1	Endangered	T	1	89 ±0.5
p Hydrocotyle umbellata	Water Pennywort	S1	Endangered	T	8	64 ±0.1
p Lophiola aurea	Golden Crest	S2	Threatened	T	18	57 ±1.0
p Lachnanthes caroliniana	Redroot	S2	Threatened	SC	10	65 ±0
p Eleocharis tuberculosa	Cone-cupped Spikerush	S2	Threatened	SC	1	91 ±0
p Clethra alnifolia	Coastal Sweet Pepperbush	S1	Vulnerable	SC	2	53 ±1
p Isoetes prototypus	Prototype Quillwort	S2	Vulnerable	SC	4	12 ±0.1
p Lilaeopsis chinensis	Eastern Lilaeopsis	S2	Vulnerable	SC	5	75 ±1.0
p Scirpus longii	Long's Bulrush	S2S3	Vulnerable	SC	19	61 ±0
n Pseudevernia cladonia	Ghost Antler Lichen	S3		SC	9	47 ±0
p Floerkea proserpinacoides	False Mermaidweed	S2		NAR	4	37 ±0.1
p Cypripedium arietinum	Ram's-Head Lady's-Slipper	S1	Endangered		11	77 ±0.1
p Helianthemum canadense	Long-branched Frostweed	S1	Endangered		13	10 ±1.0
p Thuja occidentalis	Eastern White Cedar	S1S2	Vulnerable		38	5 ±5
n Syntrichia ruralis	a Moss	S1			1	90 ±0.1
n Tortella humilis	a Moss	S1			3	67 ±1
n Timmia norvegica	a Moss	S1			1	84 ±0.1
n Sphagnum strictum	a Peatmoss	S1			1	78 ±0.1
n Rhytidium rugosum	a Moss	S1			2	66 ±1
n Rhytidiadelphus loreus	a Moss	S1			1	66 ±1
n Plagiothecium latebricola	Lurking Leskea	S1			2	67 ±1
n Eurhynchium hians	a Moss	S1			1	85 ±0.1
n Dicranum condensatum	a Moss	S1			1	72 ±1.0
n Dicranoweisia crispula	a Moss	S1			1	73 ±0.1
n Tortula obtusifolia	a Moss	S1			1	58 ±0.1
n Bryum salinum	a Moss	S1			1	67 ±1
n Bryum muehlenbeckii	a Moss	S1			1	96 ±1
n Bartramia ithyphylla	a Moss	S1			2	70 ±0.1
n Anomodon viticulosus	a Moss	S1			4	85 ±1
p Selaginella rupestris	Rock Spikemoss	S1			5	82 ±1
p Schizaea pusilla	Little Curlygrass Fern	S1			8	46 ±0
p Equisetum palustre	Marsh Horsetail	S1			1	47 ±5
p Cystopteris laurentiana	Laurentian Bladder Fern	S1			1	81 ±1
p Adiantum pedatum	Northern Maidenhair Fern	S1			6	57 ±1.0
p Torreyochloa pallida var. pallida	Pale False Manna Grass	S1			2	19 ±1.0
p Puccinellia fasciculata	Saltmarsh Alkali Grass	S1			3	48 ±1.0
p Festuca subverticillata	Nodding Fescue	S1			6	44 ±1
p Elymus hystrix var. bigeloviana	Spreading Wild Rye	S1			2	85 ±0.5
p Elymus hystrix	Spreading Wild Rye	S1			1	85 ±0.1
p Dichanthelium xanthophyllum	Slender Panic Grass	S1			2	66 ±0
p Spiranthes casei var. casei	Case's Ladies'-Tresses	S1			3	49 ±0.5
p Malaxis brachypoda	White Adder's-Mouth	S1			5	34 ±0.5
p Trillium grandiflorum	White Trillium	S1			1	47 ±1
p Allium tricoccum	Wild Leek	S1			11	5 ±1.0
p Juncus secundus	One-sided Rush	S1			3	37 ±0.1
p Sisyrrinchium fuscatum	Coastal Plain Blue-eyed-grass	S1			4	39 ±1
p Sisyrrinchium angustifolium	Narrow-leaved Blue-eyed-grass	S1			3	61 ±0
p Iris prismatica	Slender Blue Flag	S1			1	14 ±1
p Scirpus pedicellatus	Stalked Bulrush	S1			2	96 ±5
p Carex tuckermanii	Tuckerman's Sedge	S1			4	80 ±5
p Carex saxatilis	Russet Sedge	S1			3	88 ±5
p Carex prairea	Prairie Sedge	S1			2	47 ±1
p Carex ormostachya	Necklace Spike Sedge	S1			3	40 ±0.1
p Carex livida var. radicaulis	Livid Sedge	S1			2	73 ±1.0
p Carex laxiflora var. laxiflora	Loose-Flowered Sedge	S1			3	29 ±1.0
p Carex laxiflora	Loose-Flowered Sedge	S1			1	67 ±1.0
p Carex haydenii	Hayden's Sedge	S1			1	53 ±1
p Carex granularis	Limestone Meadow Sedge	S1			2	14 ±1
p Carex digitalis	Slender Wood Sedge	S1			1	62 ±0.5
p Viola canadensis	Canada Violet	S1			1	78 ±1.0
p Dirca palustris	Eastern Leatherwood	S1			9	78 ±0.1
p Amelanchier nantucketensis	Nantucket Serviceberry	S1			1	80 ±1
p Ranunculus sceleratus	Cursed Buttercup	S1			1	88 ±0.5
p Montia fontana	Water Blinks	S1			1	48 ±0.5
p Podostemum ceratophyllum	Horn-leaved Riverweed	S1			2	41 ±0.1
p Polygonum achoreum	Leathery Knotweed	S1			1	26 ±1.0
p Polygala polygama	Racemed Milkwort	S1			4	53 ±0.5
p Fraxinus pennsylvanica	Red Ash	S1			4	49 ±0
p Proserpinaca intermedia	Intermediate Mermaidweed	S1			2	91 ±1
p Ribes americanum	Wild Black Currant	S1			1	73 ±1
p Oxytropis campestris var. johannensis	Field Locoweed	S1			2	44 ±0.5
p Desmodium glutinosum	Large Tick-Trefoil	S1			10	32 ±1.0
p Desmodium canadense	Canada Tick-trefoil	S1			5	48 ±1.0
p Astragalus robbinsii var. minor	Robbins' Milkvetch	S1			3	44 ±0.1
p Cuscuta pentagona	Five-angled Dodder	S1			1	57 ±1

p	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder	S1	3	86 ±1
p	<i>Hypericum majus</i>	Large St. John's-wort	S1	2	81 ±1
p	<i>Silene antirrhina</i>	Sleepy Catchfly	S1	3	10 ±10
p	<i>Lobelia spicata</i>	Pale-Spiked Lobelia	S1	4	63 ±10
p	<i>Draba glabella</i>	Rock Whitlow-Grass	S1	7	34 ±1
p	<i>Draba arabisans</i>	Rock Whitlow-Grass	S1	11	34 ±1
p	<i>Cardamine maxima</i>	Large Toothwort	S1	11	33 ±1
p	<i>Cardamine parviflora</i> var. <i>arenicola</i>	Small-flowered Bittercress	S1	7	19 ±10
p	<i>Arabis glabra</i>	Tower Mustard	S1	3	8 ±1
p	<i>Cynoglossum virginianum</i> var. <i>boreale</i>	Wild Comfrey	S1	2	45 ±0.1
p	<i>Ageratina altissima</i>	White Snakeroot	S1	5	45 ±0.1
p	<i>Hieracium robinsonii</i>	Robinson's Hawkweed	S1	3	71 ±0.5
p	<i>Pseudognaphalium obtusifolium</i>	Eastern Cudweed	S1	1	75 ±1
p	<i>Antennaria parlinii</i>	Parlin's Pussytoes	S1	7	61 ±0.1
p	<i>Antennaria rosea</i> ssp. <i>arida</i>	Rosy Pussytoes	S1	1	44 ±0.5
p	<i>Zizia aurea</i>	Golden Alexanders	S1	1	99 ±10
p	<i>Sanicula odorata</i>	Clustered Sanicle	S1	3	38 ±5
p	<i>Osmorhiza depauperata</i>	Blunt Sweet Cicely	S1	1	57 ±5
p	<i>Toxicodendron vernix</i>	Poison Sumac	S1	1	73 ±0.1
n	<i>Anomobryum filiforme</i>	a moss	S1?	2	58 ±0.1
p	<i>Panicum dichotomiflorum</i> var. <i>puritanorum</i>	Fall Panic Grass	S1?	5	63 ±0.5
p	<i>Dichanthelium acuminatum</i> var. <i>lindheimeri</i>	Woolly Panic Grass	S1?	4	45 ±0.5
p	<i>Schoenoplectus robustus</i>	Sturdy Bulrush	S1?	1	37 ±5
p	<i>Carex longii</i>	Long's Sedge	S1?	1	82 ±10
p	<i>Rubus flagellaris</i>	Northern Dewberry	S1?	1	10 ±0.5
p	<i>Crataegus submollis</i>	Quebec Hawthorn	S1?	8	81 ±1
p	<i>Proserpinaca palustris</i> var. <i>palustris</i>	Marsh Mermaidweed	S1?	1	78 ±0
p	<i>Suaeda rolandii</i>	Roland's Sea-Blite	S1?	1	70 ±10
p	<i>Atriplex acadiensis</i>	Maritime Saltbush	S1?	1	99 ±10
p	<i>Solidago hispida</i>	Hairy Goldenrod	S1?	1	96 ±1
n	<i>Plagiomnium rostratum</i>	a Moss	S1S2	3	67 ±0.1
n	<i>Tortula mucronifolia</i>	a Moss	S1S2	1	87 ±0
n	<i>Tetradontium brownianum</i>	Little Georgia	S1S2	3	67 ±1
n	<i>Seligeria diversifolia</i>	a Moss	S1S2	1	58 ±0.1
n	<i>Hygrohypnum montanum</i>	a Moss	S1S2	2	64 ±1
n	<i>Hygrohypnum bestii</i>	a Moss	S1S2	3	73 ±1
n	<i>Andreaea rothii</i>	a Moss	S1S2	3	69 ±0.1
p	<i>Calamagrostis stricta</i> var. <i>stricta</i>	Slim-stemmed Reed Grass	S1S2	1	94 ±10
p	<i>Platanthera flava</i> var. <i>herbiola</i>	Tuberclad Orchid	S1S2	7	5 ±1
p	<i>Najas gracillima</i>	Thread-Like Naiad	S1S2	6	64 ±0.1
p	<i>Carex tenera</i>	Tender Sedge	S1S2	8	88 ±10
p	<i>Carex rostrata</i>	Narrow-leaved Beaked Sedge	S1S2	1	79 ±0
p	<i>Carex pensylvanica</i>	Pennsylvania Sedge	S1S2	1	77 ±10
p	<i>Carex bebbii</i>	Bebb's Sedge	S1S2	2	78 ±5
p	<i>Galium obtusum</i>	Blunt-leaved Bedstraw	S1S2	2	76 ±0.1
p	<i>Hepatica nobilis</i> var. <i>obtusa</i>	Round-lobed Hepatica	S1S2	13	5 ±10
p	<i>Hepatica nobilis</i>	Round-Lobe Hepatica	S1S2	3	20 ±0
p	<i>Conoposis americana</i>	American Cancer-root	S1S2	11	13 ±0
p	<i>Huperzia selago</i>	Northern Firmoss	S1S3	9	33 ±0.5
n	<i>Thamnobryum alleghaniense</i>	a Moss	S2	5	74 ±0.1
n	<i>Tayloria serrata</i>	Slender Splachnum	S2	2	61 ±1
n	<i>Sphagnum flexuosum</i>	Flexuous Peatmoss	S2	2	73 ±0.1
n	<i>Sphagnum lindbergii</i>	Lindberg's Bog Moss	S2	3	64 ±0.1
n	<i>Sphagnum centrale</i>	a Peatmoss	S2	3	67 ±1
n	<i>Scorpidium scorpioides</i>	a Moss	S2	3	86 ±0.1
n	<i>Physcomitrium pyriforme</i>	Urn Moss	S2	1	92 ±0.1
n	<i>Physcomitrium immersum</i>	a Moss	S2	1	89 ±1
n	<i>Dicranella palustris</i>	Drooping-Leaved Fork Moss	S2	5	67 ±5
n	<i>Cirriophyllum piliferum</i>	a Moss	S2	1	76 ±0
n	<i>Campyllum polygamum</i>	a Moss	S2	1	76 ±0.1
p	<i>Selaginella selaginoides</i>	Low Spikemoss	S2	5	66 ±0.5
p	<i>Equisetum pratense</i>	Meadow Horsetail	S2	3	49 ±1
p	<i>Woodsia alpina</i>	Alpine Cliff Fern	S2	3	63 ±0.5
p	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	S2	14	18 ±0
p	<i>Potamogeton friesii</i>	Fries' Pondweed	S2	4	44 ±10
p	<i>Stuckenia filiformis</i> ssp. <i>alpina</i>	Thread-leaved Pondweed	S2	4	47 ±10
p	<i>Piptatherum pungens</i>	Slender Rice Grass	S2	3	75 ±1
p	<i>Piptatherum canadense</i>	Canada Rice Grass	S2	1	91 ±0
p	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses	S2	9	4 ±0.1
p	<i>Spiranthes casei</i> var. <i>novaescotiae</i>	Case's Ladies'-Tresses	S2	2	10 ±0.5
p	<i>Spiranthes casei</i>	Case's Ladies'-Tresses	S2	1	68 ±10
p	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid	S2	2	67 ±1
p	<i>Platanthera flava</i> var. <i>flava</i>	Tuberclad Orchid	S2	9	60 ±10
p	<i>Platanthera flava</i>	Tuberclad Orchid	S2	6	65 ±0
p	<i>Listera australis</i>	Southern Twayblade	S2	10	26 ±0
p	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain	S2	20	15 ±10
p	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Yellow Lady's-slipper	S2	7	30 ±0.1
p	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper	S2	7	41 ±5
p	<i>Coeloglossum viride</i> var. <i>virescens</i>	Long-bracted Frog Orchid	S2	4	54 ±1
p	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	S2	1	44 ±10
p	<i>Allium schoenoprasum</i>	Wild Chives	S2	1	48 ±1
p	<i>Juncus vaseyi</i>	Vasey's Rush	S2	3	80 ±0
p	<i>Elodea nuttallii</i>	Nuttall's Waterweed	S2	1	99 ±0.1
p	<i>Eriophorum gracile</i>	Slender Cottongrass	S2	5	13 ±10
p	<i>Carex albicans</i> var. <i>emmonsii</i>	White-tinged Sedge	S2	2	71 ±0
p	<i>Carex hystericina</i>	Porcupine Sedge	S2	5	11 ±1

p	Carex hirtifolia	Pubescent Sedge	S2	2	84 ±0.1
p	Carex garberi	Garber's Sedge	S2	1	85 ±0.5
p	Carex comosa	Bearded Sedge	S2	5	23 ±10
p	Carex castanea	Chestnut Sedge	S2	1	92 ±0
p	Carex atratifomis	Scabrous Black Sedge	S2	2	84 ±1
p	Carex atlantica ssp. capillacea	Atlantic Sedge	S2	4	13 ±0.1
p	Symplocarpus foetidus	Eastern Skunk Cabbage	S2	7	79 ±0
p	Scrophularia lanceolata	Lance-leaved Figwort	S2	4	16 ±1
p	Tiarella cordifolia	Heart-leaved Foamflower	S2	2	43 ±0.1
p	Saxifraga paniculata ssp. neogaea	White Mountain Saxifrage	S2	10	44 ±0.5
p	Salix sericea	Silky Willow	S2	6	45 ±0.1
p	Salix pedicellaris	Bog Willow	S2	8	29 ±10
p	Galium boreale	Northern Bedstraw	S2	5	48 ±0.1
p	Ranunculus flammula var. flammula	Lesser Spearwort	S2	4	56 ±10
p	Anemone virginiana var. virginiana	Virginia Anemone	S2	1	88 ±10
p	Anemone virginiana	Virginia Anemone	S2	5	77 ±0.1
p	Anemone quinquefolia	Wood Anemone	S2	3	3 ±0.1
p	Anemone canadensis	Canada Anemone	S2	6	60 ±10
p	Samolus valerandi ssp. parviflorus	Seaside Brookweed	S2	7	75 ±10
p	Samolus valerandi	Seaside Brookweed	S2	1	97 ±0
p	Plantago rugelii	Rugel's Plantain	S2	2	14 ±1
p	Rumex salicifolius var. mexicanus	Triangular-valve Dock	S2	7	47 ±1
p	Polygonum arifolium	Halberd-leaved Tearthumb	S2	7	41 ±10
p	Oenothera fruticosa ssp. glauca	Narrow-leaved Evening Primrose	S2	5	58 ±0.1
p	Oenothera fruticosa	Narrow-leaved Evening Primrose	S2	3	76 ±0
p	Hedeoma pulegioides	American False Pennyroyal	S2	23	29 ±5
p	Myriophyllum humile	Low Water Milfoil	S2	1	79 ±1
p	Vaccinium boreale	Northern Blueberry	S2	2	58 ±10
p	Shepherdia canadensis	Soapberry	S2	10	77 ±0.1
p	Triosteum aurantiacum	Orange-fruited Tinker's Weed	S2	4	86 ±0.5
p	Callitriche hermaphroditica	Northern Water-starwort	S2	5	73 ±0
p	Hudsonia ericoides	Pinebarren Golden Heather	S2	14	3 ±0
p	Chenopodium rubrum	Red Pigweed	S2	3	86 ±1
p	Atriplex franktonii	Frankton's Saltbush	S2	2	57 ±1
p	Stellaria longifolia	Long-leaved Starwort	S2	2	88 ±10
p	Minuartia groenlandica	Greenland Stitchwort	S2	8	55 ±10
p	Arabis drummondii	Drummond's Rockcress	S2	12	33 ±0.5
p	Betula michauxii	Newfoundland Dwarf Birch	S2	4	61 ±0
p	Caulophyllum thalictroides	Blue Cohosh	S2	8	5 ±10
p	Impatiens pallida	Pale Jewelweed	S2	4	34 ±0.5
p	Symphytotrichum undulatum	Wavy-leaved Aster	S2	22	60 ±0
p	Rudbeckia laciniata var. gaspereaensis	Cut-Leaved Coneflower	S2	7	10 ±10
p	Lactuca hirsuta var. sanguinea	Hairy Lettuce	S2	4	57 ±1
p	Iva frutescens ssp. oraria	Big-leaved Marsh-elder	S2	7	58 ±1
p	Iva frutescens	Big-leaved Marsh-elder	S2	3	60 ±0
p	Eupatorium dubium	Coastal Plain Joe-pye-weed	S2	1	77 ±10
p	Erigeron philadelphicus	Philadelphia Fleabane	S2	1	36 ±10
p	Osmorhiza longistylis	Smooth Sweet Cicely	S2	10	36 ±1
p	Conioselinum chinense	Chinese Hemlock-parsley	S2	3	45 ±10
n	Timmia megapolitana	a Moss	S2?	1	96 ±1
n	Paludella squarrosa	a Moss	S2?	1	88 ±10
p	Dichanthelium linearifolium	Narrow-leaved Panic Grass	S2?	10	4 ±0
p	Juncus dudleyi	Dudley's Rush	S2?	4	6 ±5
p	Eleocharis ovata	Ovate Spikerush	S2?	3	65 ±0.5
p	Carex houghtoniana	Houghton's Sedge	S2?	4	58 ±0.5
p	Rubus pensilvanicus	Pennsylvania Blackberry	S2?	6	71 ±0.1
p	Amelanchier fernaldii	Fernald's Serviceberry	S2?	1	66 ±10
p	Epilobium coloratum	Purple-veined Willowherb	S2?	7	56 ±1
p	Hieracium kalmii var. kalmii	Kalm's Hawkweed	S2?	2	25 ±1
n	Hieracium kalmii	Kalm's Hawkweed	S2?	2	39 ±0.5
n	Tetraplodon angustatus	a Lemming Moss	S2S3	1	49 ±10
n	Sphagnum wulfianum	a Peatmoss	S2S3	1	19 ±0
n	Ephemerum serratum	a Moss	S2S3	2	90 ±0
p	Ophioglossum pusillum	Northern Adder's-tongue	S2S3	6	35 ±10
p	Botrychium simplex	Least Moonwort	S2S3	2	52 ±1
p	Botrychium lanceolatum var. angustisegmentum	Triangle Moonwort	S2S3	6	34 ±1
p	Woodwardia areolata	Netted Chain Fern	S2S3	14	71 ±0
p	Potamogeton zosteriformis	Flat-stemmed Pondweed	S2S3	1	44 ±10
p	Potamogeton richardsonii	Richardson's Pondweed	S2S3	5	37 ±1
p	Potamogeton praelongus	White-stemmed Pondweed	S2S3	10	48 ±1
p	Poa glauca	Glaucous Blue Grass	S2S3	9	34 ±0.5
p	Panicum tuckermanii	Tuckerman's Panic Grass	S2S3	11	10 ±0
p	Alopecurus aequalis	Short-awned Foxtail	S2S3	4	19 ±10
p	Spiranthes ochroleuca	Yellow Ladies'-tresses	S2S3	10	10 ±1
p	Cypripedium parviflorum	Yellow Lady's-slipper	S2S3	17	46 ±10
p	Lilium canadense	Canada Lily	S2S3	11	32 ±10
p	Eleocharis olivacea	Yellow Spikerush	S2S3	5	34 ±0.1
p	Carex swanii	Swan's Sedge	S2S3	8	8 ±5
p	Carex adusta	Lesser Brown Sedge	S2S3	3	70 ±0.5
p	Polygonum raii	Sharp-fruited Knotweed	S2S3	2	83 ±1
p	Polygonum buxiforme	Small's Knotweed	S2S3	4	22 ±10
p	Polygala sanguinea	Blood Milkwort	S2S3	4	0 ±0.1
p	Fraxinus nigra	Black Ash	S2S3	23	5 ±10
p	Hypericum dissimulatum	Disguised St John's-wort	S2S3	4	57 ±0.1
p	Sagina nodosa ssp. borealis	Knotted Pearlwort	S2S3	2	78 ±5
p	Betula pumila var. pumila	Bog Birch	S2S3	1	95 ±10

p	<i>Symphotrichum ciliolatum</i>	Fringed Blue Aster	S2S3	3	33 ±1
p	<i>Asclepias incarnata</i> ssp. <i>pulchra</i>	Swamp Milkweed	S2S3	10	11 ±1
n	<i>Sphagnum torreyanum</i>	a Peatmoss	S3	1	63 ±0
n	<i>Pleuroidium subulatum</i>	a Moss	S3	1	91 ±0
p	<i>Botrychium dissectum</i>	Cut-leaved Moonwort	S3	7	10 ±1
p	<i>Huperzia appalachiana</i>	Mountain Firmoss	S3	6	63 ±0.5
p	<i>Lycopodium hickeyi</i>	Hickey's Tree-clubmoss	S3	1	98 ±0.5
p	<i>Isoetes acadensis</i>	Acadian Quillwort	S3	10	34 ±0.5
p	<i>Woodsia glabella</i>	Smooth Cliff Fern	S3	11	64 ±1
p	<i>Dryopteris fragrans</i> var. <i>remotiuscula</i>	Fragrant Wood Fern	S3	16	63 ±0.5
p	<i>Asplenium trichomanes-ramosum</i>	Green Spleenwort	S3	15	71 ±0.1
p	<i>Cryptogramma stelleri</i>	Steller's Rockbrake	S3	3	58 ±0.1
p	<i>Sparganium natans</i>	Small Burreed	S3	2	58 ±5
p	<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	S3	3	79 ±0
p	<i>Trisetum melicoides</i>	Purple False Oats	S3	3	80 ±5
p	<i>Panicum rigidulum</i> var. <i>pubescens</i>	Redtop Panic Grass	S3	48	59 ±10
p	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass	S3	9	5 ±0
p	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid	S3	3	69 ±10
p	<i>Platanthera hookeri</i>	Hooker's Orchid	S3	14	14 ±1
p	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid	S3	8	36 ±1
p	<i>Liparis loeselii</i>	Loesel's Twayblade	S3	10	34 ±1
p	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain	S3	8	17 ±10
p	<i>Cypripedium reginae</i>	Showy Lady's-Slipper	S3	5	60 ±1
p	<i>Corallorhiza trifida</i>	Early Coralroot	S3	14	29 ±1
p	<i>Triantha glutinosa</i>	Sticky False Asphodel	S3	1	85 ±0.5
p	<i>Juncus subcaudatus</i>	Woodland Rush	S3	2	13 ±10
p	<i>Juncus marginatus</i>	Grass-leaved Rush	S3	6	6 ±10
p	<i>Triglochin gaspensis</i>	Gaspé Arrowgrass	S3	4	61 ±0.1
p	<i>Eriophorum chamissonis</i>	Russet Cotton-Grass	S3	3	75 ±0
p	<i>Eleocharis quinqueflora</i>	Few-flowered Spikerush	S3	2	86 ±0.5
p	<i>Eleocharis nitida</i>	Quill Spikerush	S3	14	5 ±10
p	<i>Cyperus dentatus</i>	Toothed Flatsedge	S3	26	60 ±0.1
p	<i>Carex wiegandii</i>	Wiegand's Sedge	S3	5	60 ±1
p	<i>Carex rosea</i>	Rosy Sedge	S3	16	4 ±0.1
p	<i>Carex lupulina</i>	Hop Sedge	S3	5	65 ±0.5
p	<i>Carex eburnea</i>	Bristle-leaved Sedge	S3	1	71 ±0.1
p	<i>Carex chordorrhiza</i>	Creeping Sedge	S3	2	84 ±0
p	<i>Carex capillaris</i>	Hairlike Sedge	S3	6	44 ±0.5
p	<i>Viola nephrophylla</i>	Northern Bog Violet	S3	5	58 ±1
p	<i>Verbena hastata</i>	Blue Vervain	S3	15	20 ±1
p	<i>Pilea pumila</i>	Dwarf Clearweed	S3	2	89 ±0
p	<i>Laportea canadensis</i>	Canada Wood Nettle	S3	4	10 ±0
p	<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	Thyme-Leaved Speedwell	S3	1	74 ±1
p	<i>Limosella australis</i>	Southern Mudwort	S3	4	88 ±10
p	<i>Geocaulon lividum</i>	Northern Comandra	S3	5	18 ±0.1
p	<i>Salix petiolaris</i>	Meadow Willow	S3	4	49 ±0.5
p	<i>Cephalanthus occidentalis</i>	Common Buttonbush	S3	63	56 ±10
p	<i>Rosa palustris</i>	Swamp Rose	S3	40	38 ±0
p	<i>Agrimonia gryposepala</i>	Hooked Agrimony	S3	7	10 ±0
p	<i>Rhamnus alnifolia</i>	Alder-leaved Buckthorn	S3	3	76 ±0
p	<i>Ranunculus gmelinii</i>	Gmelin's Water Buttercup	S3	4	84 ±0
p	<i>Clematis occidentalis</i>	Purple Clematis	S3	5	72 ±0.5
p	<i>Pyrola minor</i>	Lesser Pyrola	S3	5	41 ±10
p	<i>Pyrola asarifolia</i>	Pink Pyrola	S3	1	68 ±10
p	<i>Primula laurentiana</i>	Laurentian Primrose	S3	15	11 ±5
p	<i>Primula mistassinica</i>	Mistassini Primrose	S3	6	83 ±0.1
p	<i>Rumex maritimus</i>	Sea-Side Dock	S3	3	88 ±0
p	<i>Polygonum scandens</i>	Climbing False Buckwheat	S3	9	10 ±0
p	<i>Polygonum pensylvanicum</i>	Pennsylvania Smartweed	S3	13	11 ±0.1
p	<i>Epilobium strictum</i>	Downy Willowherb	S3	5	59 ±5
p	<i>Epilobium hornemannii</i> ssp. <i>hornemannii</i>	Hornemann's Willowherb	S3	1	71 ±0.1
p	<i>Epilobium hornemannii</i>	Hornemann's Willowherb	S3	1	70 ±1
p	<i>Rhexia virginica</i>	Virginia Meadow Beauty	S3	58	51 ±10
p	<i>Decodon verticillatus</i>	Swamp Loosetrife	S3	28	50 ±10
p	<i>Utricularia subulata</i>	Zigzag Bladderwort	S3	20	38 ±0
p	<i>Utricularia radiata</i>	Little Floating Bladderwort	S3	37	55 ±0.5
p	<i>Teucrium canadense</i>	Canada Germander	S3	6	35 ±5
p	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed	S3	14	40 ±10
p	<i>Proserpinaca palustris</i> var. <i>crebra</i>	Marsh Mermaidweed	S3	1	85 ±0.1
p	<i>Myriophyllum sibiricum</i>	Siberian Water Milfoil	S3	13	82 ±0.5
p	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil	S3	9	76 ±0.5
p	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil	S3	11	56 ±1
p	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill	S3	4	66 ±0.1
p	<i>Gentianella amarella</i> ssp. <i>acuta</i>	Northern Gentian	S3	2	85 ±0.5
p	<i>Bartonia virginica</i>	Yellow Bartonia	S3	7	34 ±0.5
p	<i>Vaccinium caespitosum</i>	Dwarf Bilberry	S3	13	53 ±1
p	<i>Stellaria humifusa</i>	Saltmarsh Starwort	S3	15	46 ±1
p	<i>Campanula aparinoides</i>	Marsh Bellflower	S3	7	18 ±1
p	<i>Arabis hirsuta</i> var. <i>pycnocarpa</i>	Western Hairy Rockcress	S3	9	45 ±0.1
p	<i>Alnus serrulata</i>	Smooth Alder	S3	41	56 ±10
p	<i>Symphotrichum boreale</i>	Boreal Aster	S3	8	58 ±10
p	<i>Solidago latissimifolia</i>	Elliott's Goldenrod	S3	5	65 ±10
p	<i>Packera paupercula</i>	Balsam Groundsel	S3	4	77 ±0
p	<i>Prenanthes racemosa</i>	Glaucous Rattlesnakeroot	S3	10	88 ±1
p	<i>Hieracium paniculatum</i>	Panicled Hawkweed	S3	7	21 ±0
p	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane	S3	9	68 ±0

p	<i>Asclepias incarnata</i>	Swamp Milkweed	S3			37	32 ±10
p	<i>Panax trifolius</i>	Dwarf Ginseng	S3			4	70 ±0.5
p	<i>Polypodium appalachianum</i>	Appalachian Polypody	S3?			8	26 ±1
p	<i>Lycopodium sitchense</i>	Sitka Clubmoss	S3?			2	58 ±1
p	<i>Lycopodium sabinifolium</i>	Ground-Fir	S3?			10	63 ±0
p	<i>Carex tribuloides</i>	Blunt Broom Sedge	S3?			2	66 ±0.1
p	<i>Carex cryptolepis</i>	Hidden-scaled Sedge	S3?			1	70 ±0
p	<i>Carex foenea</i>	Hay Sedge	S3?			2	63 ±0.5
p	<i>Utricularia resupinata</i>	Inverted Bladderwort	S3?			6	60 ±0
p	<i>Symphytotrichum tradescantii</i>	Tradescant's Aster	S3?			3	98 ±0.5
n	<i>Tortula truncata</i>	a Moss	S3S4			3	63 ±0.1
p	<i>Lycopodiella appressa</i>	Southern Bog Clubmoss	S3S4			48	29 ±5
p	<i>Lycopodium complanatum</i>	Northern Clubmoss	S3S4			5	21 ±1
p	<i>Equisetum scirpoides</i>	Dwarf Scouring-Rush	S3S4			12	19 ±1
p	<i>Cystopteris bulbifera</i>	Bulblet Bladder Fern	S3S4			6	45 ±0.1
p	<i>Trisetum spicatum</i>	Narrow False Oats	S3S4			4	44 ±0.5
p	<i>Dichanthelium spretum</i>	Eaton's Witchgrass	S3S4			41	34 ±0.1
p	<i>Luzula parviflora</i>	Small-flowered Woodrush	S3S4			5	17 ±10
p	<i>Juncus acuminatus</i>	Sharp-fruited Rush	S3S4			1	11 ±1
p	<i>Sisyrinchium atlanticum</i>	Eastern Blue-Eyed-Grass	S3S4			15	57 ±0
p	<i>Carex argyrantha</i>	Silvery-flowered Sedge	S3S4			7	40 ±0.1
p	<i>Viola sagittata</i> var. <i>ovata</i>	Arrow-Leaved Violet	S3S4			7	10 ±0
p	<i>Viola sagittata</i>	Arrow-Leaved Violet	S3S4			3	76 ±0
p	<i>Lindernia dubia</i>	Yellow-seeded False Pimperel	S3S4			6	37 ±0.1
p	<i>Polygonum robustius</i>	Stout Smartweed	S3S4			20	12 ±1
p	<i>Sanguinaria canadensis</i>	Bloodroot	S3S4			2	85 ±0.1
p	<i>Utricularia gibba</i>	Humped Bladderwort	S3S4			21	59 ±0
p	<i>Suaeda calceoliformis</i>	Horned Sea-bite	S3S4			5	57 ±0.5
p	<i>Lobelia kalmii</i>	Brook Lobelia	S3S4			6	85 ±1
p	<i>Megalodonta beckii</i>	Water Beggarticks	S3S4			13	64 ±0.5
p	<i>Isoetes lacustris</i>	Lake Quillwort	S4			6	40 ±1
n	<i>Grimmia anodon</i>	a Moss	SH			1	87 ±10
p	<i>Dichanthelium meridionale</i>	Matting Witchgrass	SH			1	62 ±10
p	<i>Eleocharis erythropoda</i>	Red-stemmed Spikerush	SH			1	97 ±1
p	<i>Bidens discoidea</i>	Swamp Beggarticks	SH			1	60 ±0.5

4.2 FAUNA

	scientific name	common name	prov. rarity	prov. status	COSEWIC	obs	dist.km
a	<i>Emydoidea blandingii</i>	Blanding's Turtle (Nova Scotia pop.)	S1	Endangered	E	8	40 ±0
a	<i>Coregonus huntsmani</i>	Atlantic Whitefish	S1	Endangered	E	7	61 ±10
a	<i>Sterna dougallii</i>	Roseate Tern	S1B	Endangered	E	9	45 ±10
a	<i>Dermodochelys coriacea</i>	Leatherback Sea Turtle	S1S2N	Endangered	E	4	78 ±1
a	<i>Calidris canutus rufa</i>	Red Knot rufa ssp	S2S3M	Endangered	E	15	58 ±0.1
i	<i>Gomphus ventricosus</i>	Skillet Clubtail	S1		E	1	95 ±1
a	<i>Salmo salar</i> pop. 1	Atlantic Salmon - inner Bay of Fundy pops	S2		E	25	15 ±10
a	<i>Salmo salar</i> pop. 1	Atlantic Salmon - inner Bay of F	S2		E	2	
a	<i>Rangifer tarandus</i> pop. 2	Woodland Caribou (Atlantic-Gaspésie pop.)	SX		E	2	84 ±5
a	<i>Numenius borealis</i>	Eskimo Curlew	SXM		E	2	63 ±0.5
a	<i>Thamnophis sauritus</i> pop. 3	Eastern Ribbon Snake (Atlantic pop.)	S2S3	Threatened	T	86	24 ±0
a	<i>Catharus bicknelli</i>	Bicknell's Thrush	S1S2B	Vulnerable	T	3	49 ±5
a	<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	S1?		T	2	65 ±0.5
a	<i>Sturnella magna</i>	Eastern Meadowlark	S1S2B		T	13	19 ±5
a	<i>Ixobrychus exilis</i>	Least Bittern	S1S2B		T	4	82 ±0.1
a	<i>Morone saxatilis</i>	Striped Bass	S2		T	6	19 ±10
a	<i>Caprimulgus vociferus</i>	Whip-Poor-Will	S2B		T	8	50 ±5
a	<i>Glyptemys insculpta</i>	Wood Turtle	S3		T	29	5 ±10
a	<i>Dolichonyx oryzivorus</i>	Bobolink	S3S4B		T	154	5 ±5
a	<i>Falco peregrinus anatum</i>	Peregrine Falcon anatum ssp	S1B	Endangered	SC	21	22 ±10
a	<i>Histrionicus histrionicus</i> pop. 1	Harlequin Duck - Eastern pop.	S2N	Endangered	SC	2	89 ±10
a	<i>Bucephala islandica</i> (Eastern pop.)	Barrow's Goldeneye (Eastern pop.)	S1N		SC	1	51 ±0.1
a	<i>Asio flammeus</i>	Short-eared Owl	S1S2		SC	5	53 ±5
i	<i>Alasmidonta varicosa</i>	Brook Floater	S1S2		SC	2	67 ±0.1
a	<i>Euphagus carolinus</i>	Rusty Blackbird	S2S3B		SC	82	5 ±5
i	<i>Danaus plexippus</i>	Monarch	S3B		SC	18	34 ±1
a	<i>Lynx canadensis</i>	Canada Lynx	S1	Endangered	NAR	7	66 ±5
a	<i>Hemidactylium scutatum</i>	Four-toed Salamander	S1?		NAR	18	21 ±0.1
a	<i>Aegolius funereus</i>	Boreal Owl	S1S2B		NAR	1	63 ±5
a	<i>Chlidonias niger</i>	Black Tern	S2B		NAR	7	84 ±0.1
a	<i>Fulica americana</i>	American Coot	S2B		NAR	4	42 ±0.1
a	<i>Glaucomys volans</i>	Southern Flying Squirrel	S2S3		NAR	6	48 ±10
a	<i>Sialia sialis</i>	Eastern Bluebird	S3B		NAR	20	10 ±5
a	<i>Sterna hirundo</i>	Common Tern	S3B		NAR	61	50 ±5
a	<i>Accipiter gentilis</i>	Northern Goshawk	S3S4		NAR	38	6 ±5
a	<i>Canis lupus</i>	Gray Wolf	SX		NAR	3	85 ±1
a	<i>Alces americanus</i>	Moose	S1	Endangered		14	45 ±10
a	<i>Martes americana</i>	American Marten	S1	Endangered		12	19 ±10
a	<i>Sorex dispar</i>	Long-tailed Shrew	S1			2	96 ±0.1
i	<i>Enallagma signatum</i>	Orange Bluet	S1			1	49 ±0.1
i	<i>Celithemis martha</i>	Martha's Pennant	S1			1	100 ±0.1
i	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	S1			1	99 ±0.1
i	<i>Somatochlora franklini</i>	Delicate Emerald	S1			2	49 ±1
i	<i>Somatochlora brevicincta</i>	Quebec Emerald	S1			1	98 ±1
i	<i>Ophiogomphus mainensis</i>	Maine Snaketail	S1			2	65 ±0.1
i	<i>Ophiogomphus aspersus</i>	Brook Snaketail	S1			4	82 ±0.1
i	<i>Oeneis jutta</i>	Jutta Arctic	S1			3	89 ±10
i	<i>Polygonia satyrus</i>	Satyr Comma	S1			4	64 ±1

i	<i>Erora laeta</i>	Early Hairstreak	S1	1	65 ±1
i	<i>Hesperia leonardus</i>	Leonard's Skipper	S1	1	67 ±1
a	<i>Lasionycteris noctivagans</i>	Silver-haired Bat	S1?	1	90 ±1
a	<i>Vireo gilvus</i>	Warbling Vireo	S1?B	3	49 ±0.1
a	<i>Aythya marila</i>	Greater Scaup	S1B,S2N	2	95 ±0.1
a	<i>Fratercula arctica</i>	Atlantic Puffin	S1B,S4S5N	1	87 ±10
a	<i>Calidris minutilla</i>	Least Sandpiper	S1B,S5M	5	58 ±0.1
i	<i>Stylurus scudderii</i>	Zebra Clubtail	S1S2	4	2 ±0.1
i	<i>Somatochlora kennedyi</i>	Kennedy's Emerald	S1S2	4	89 ±0.1
i	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail	S1S2	4	57 ±1
i	<i>Callophrys lanoraieensis</i>	Bog Elfin	S1S2	6	70 ±1
a	<i>Hylocichla mustelina</i>	Wood Thrush	S1S2B	46	19 ±5
a	<i>Progne subis</i>	Purple Martin	S1S2B	25	26 ±5
a	<i>Empidonax traillii</i>	Willow Flycatcher	S1S2B	17	26 ±5
a	<i>Gallinula chloropus</i>	Common Moorhen	S1S2B	9	40 ±5
a	<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	S1S2B	5	81 ±1
a	<i>Charadrius semipalmatus</i>	Semipalmated Plover	S1S2B,S5M	10	34 ±5
a	<i>Martes pennanti</i>	Fisher	S2	5	13 ±10
a	<i>Myotis septentrionalis</i>	Northern Long-eared Bat	S2	1	78 ±10
a	<i>Salmo salar</i>	Atlantic Salmon	S2	13	39 ±10
i	<i>Lampsilis radiata</i>	Eastern Lampmussel	S2	1	86 ±0.1
i	<i>Epitheca princeps</i>	Prince Baskettail	S2	6	65 ±1
i	<i>Polygonia comma</i>	Eastern Comma	S2	2	67 ±1
i	<i>Boloria chariclea</i>	Arctic Fritillary	S2	2	74 ±1
i	<i>Strymon melinus</i>	Gray Hairstreak	S2	4	50 ±1
i	<i>Callophrys niphon</i>	Eastern Pine Elfin	S2	7	41 ±1
i	<i>Callophrys henrici</i>	Henry's Elfin	S2	7	64 ±1
i	<i>Satyrrium calanus</i>	Banded Hairstreak	S2	2	42 ±1
i	<i>Amblyscirtes vialis</i>	Common Roadside-Skipper	S2	2	41 ±1
i	<i>Amblyscirtes hegon</i>	Salt and Pepper Skipper	S2	1	64 ±1
a	<i>Lasiurus cinereus</i>	Hoary Bat	S2?	1	85 ±1
a	<i>Lasiurus borealis</i>	Red Bat	S2?	1	85 ±1
a	<i>Perimyotis subflavus</i>	Eastern Pipitrelle	S2?	6	69 ±0
a	<i>Vireo philadelphicus</i>	Philadelphia Vireo	S2?B	5	19 ±5
a	<i>Poocetes gramineus</i>	Vesper Sparrow	S2B	16	10 ±5
a	<i>Piranga olivacea</i>	Scarlet Tanager	S2B	27	10 ±0.5
a	<i>Toxostoma rufum</i>	Brown Thrasher	S2B	6	19 ±5
a	<i>Cistothorus palustris</i>	Marsh Wren	S2B	8	82 ±5
a	<i>Eremophila alpestris</i>	Horned Lark	S2B	10	10 ±5
a	<i>Anas strepera</i>	Gadwall	S2B	13	26 ±5
a	<i>Anas clypeata</i>	Northern Shoveler	S2B	17	26 ±5
a	<i>Tringa solitaria</i>	Solitary Sandpiper	S2B,S5M	10	36 ±5
a	<i>Bucephala clangula</i>	Common Goldeneye	S2B,S5N	33	13 ±10
a	<i>Asio otus</i>	Long-eared Owl	S2S3	8	49 ±5
i	<i>Alasmidonta undulata</i>	Triangle Floater	S2S3	10	78 ±0.1
i	<i>Enallagma vesperum</i>	Vesper Bluets	S2S3	9	49 ±1
i	<i>Lestes vigilax</i>	Swamp Spreadingwing	S2S3	4	87 ±0.1
i	<i>Erynnis juvenalis</i>	Juvenal's Duskywing	S2S3	6	41 ±1
a	<i>Icterus galbula</i>	Baltimore Oriole	S2S3B	33	5 ±5
a	<i>Synaptomys cooperi</i>	Southern Bog Lemming	S3	5	69 ±1
a	<i>Sorex maritimensis</i>	Maritime Shrew	S3	1	26 ±10
a	<i>Loxia curvirostra</i>	Red Crossbill	S3	12	59 ±0.1
i	<i>Leptodea ochracea</i>	Tidewater Mucket	S3	4	86 ±0.1
i	<i>Lestes eurinus</i>	Amber-Winged Spreadingwing	S3	1	96 ±1
i	<i>Nannothemis bella</i>	Elfin Skimmer	S3	10	42 ±1
i	<i>Erythrodiplax berenice</i>	Seaside Dragonlet	S3	2	80 ±0.1
i	<i>Somatochlora tenebrosa</i>	Clamp-Tipped Emerald	S3	10	46 ±0.1
i	<i>Somatochlora forcipata</i>	Forcipate Emerald	S3	5	49 ±1
i	<i>Somatochlora cingulata</i>	Lake Emerald	S3	4	72 ±1
i	<i>Dorocordulia lepida</i>	Petite Emerald	S3	1	89 ±0.1
i	<i>Gomphaeschna furcillata</i>	Harlequin Dammer	S3	7	48 ±1
i	<i>Boyeria grafiana</i>	Ocellated Damer	S3	7	26 ±1
i	<i>Aeshna constricta</i>	Lance-Tipped Darner	S3	3	42 ±1
i	<i>Aeshna clepsydra</i>	Mottled Darner	S3	14	11 ±1
i	<i>Ophiogomphus carolus</i>	Riffle Snaketail	S3	12	27 ±1
i	<i>Oeneis jutta ascerta</i>	Jutta Arctic	S3	1	93 ±1
i	<i>Enodia anthedon</i>	Northern Pearly-Eye	S3	3	33 ±1
i	<i>Nymphalis vaualbum j-album</i>	Compton Tortoiseshell	S3	5	65 ±1
i	<i>Nymphalis vaualbum</i>	Compton Tortoiseshell	S3	1	84 ±1
i	<i>Polygonia faunus</i>	Green Comma	S3	6	65 ±1
i	<i>Euphydryas phaeton</i>	Baltimore Checkerspot	S3	1	79 ±1
i	<i>Chlosyne nycteis</i>	Silvery Checkerspot	S3	2	50 ±1
i	<i>Satyrrium liparops</i>	Striped Hairstreak	S3	2	50 ±1
i	<i>Satyrrium acadica</i>	Acadian Hairstreak	S3	2	84 ±1
i	<i>Lycaena dospassosi</i>	Salt Marsh Copper	S3	1	85 ±1
i	<i>Lycaena hyllus</i>	Bronze Copper	S3	2	87 ±0.5
i	<i>Hesperia comma laurentina</i>	Laurentian Skipper	S3	3	1 ±10
a	<i>Picoides dorsalis</i>	American Three-toed Woodpecker	S3?	2	69 ±0.1
a	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	S3?B	10	9 ±5
a	<i>Passerina cyanea</i>	Indigo Bunting	S3B	16	50 ±5
a	<i>Mimus polyglottos</i>	Northern Mockingbird	S3B	41	10 ±5
a	<i>Myiarchus crinitus</i>	Great Crested Flycatcher	S3B	19	10 ±5
a	<i>Sterna paradisaea</i>	Arctic Tern	S3B	19	77 ±5
a	<i>Rallus limicola</i>	Virginia Rail	S3B	20	10 ±5
a	<i>Anas acuta</i>	Northern Pintail	S3B	13	40 ±5
i	<i>Polygonia interrogationis</i>	Question Mark	S3B	3	42 ±1

a	<i>Mergus serrator</i>	Red-breasted Merganser	S3B,S4S5N	40	10 ±5
a	<i>Tringa melanoleuca</i>	Greater Yellowlegs	S3B,S5M	9	42 ±0.1
a	<i>Phalaropus fulicaria</i>	Red Phalarope	S3M	4	63 ±0.5
a	<i>Phalaropus lobatus</i>	Red-necked Phalarope	S3M	5	63 ±0.5
a	<i>Limosa haemastica</i>	Hudsonian Godwit	S3M	6	60 ±0.5
a	<i>Numenius phaeopus</i>	Whimbrel	S3M	4	63 ±0.5
a	<i>Pluvialis dominica</i>	American Golden-Plover	S3M	15	58 ±0.5
a	<i>Calidris maritima</i>	Purple Sandpiper	S3N	16	10 ±10
a	<i>Cardinalis cardinalis</i>	Northern Cardinal	S3S4	22	5 ±5
a	<i>Cephus grylle</i>	Black Guillemot	S3S4	21	10 ±5
i	<i>Polygonia progne</i>	Gray Comma	S3S4	9	33 ±1
i	<i>Speyeria aphrodite</i>	Aphrodite Fritillary	S3S4	15	42 ±1
i	<i>Callophrys polios</i>	Hoary Elfin	S3S4	10	21 ±1
i	<i>Feniseca tarquinius</i>	Harvester	S3S4	5	42 ±1
a	<i>Sayornis phoebe</i>	Eastern Phoebe	S3S4B	43	5 ±5

4.3 RANGE MAPS

The legally protected taxa listed below are linked to the study area by predictive range maps based upon expert estimates of distribution. Taxa listed here but not in the observation data above, are unknown within the study area but perhaps present. Ranges of rank 1 indicate possible occurrence, those of rank 2 and 3 increasingly less probable.

	scientific name	common name	prov. rarity	prov. status	COSEWIC	range
a	<i>Glyptemys insculpta</i>	Wood Turtle	S3	Vulnerable	T	1
p	<i>Listera australis</i>	Southern Twayblade	S2			1
p	<i>Isoetes prototypus</i>	Prototype Quillwort	S2	Vulnerable	SC	1
i	<i>Danaus plexippus</i>	Monarch	S2B		SC	1
a	<i>Glaucomys volans</i>	Southern Flying Squirrel	S2S3		NAR	1
a	<i>Falco peregrinus anatum</i>	Peregrine Falcon anatum ssp	S1B	Vulnerable	SC	2
p	<i>Geum peckii</i>	Eastern Mountain Avens	S1	Endangered	E	2
p	<i>Geum peckii</i>	Eastern Mountain Avens	S1	Endangered	E	1

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