

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC201c-3281
General Site Location:	Bear Lake
Watercourse Assessor(s):	CT, MT
Affiliation:	CBCL Limited
Field Assessment Date:	Nov 25 2022
UTM Coordinates:	Wp. 1490
Datum:	NAD 1983
SUBSTRATE	
Dominant	Gravel
Subdominant	Cobble
Subdominant	Boulder
Trace	Fines
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.3
Average Wetted Width (m)	1.0
Average Bankful Depth (m)	0.3
Average Water Depth (m)	0.1
Average Pool Depth (m)	0.2
WATERCOURSE MORPHOLOGY	
Watercourse Type	Intermittent with Ephemeral Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Yellow Birch	<i>Betula alleghaniensis</i>
2	Red Maple	<i>Acer rubrum</i>
3	Red Spruce	<i>Picea rubens</i>
4	Balsam Fir	<i>Abies balsamea</i>
5	Eastern Hemlock	<i>Tsuga canadensis</i>
6	Striped Maple	<i>Acer pensylvanicum</i>
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage	Young Forest	
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input checked="" type="checkbox"/>	
Surface Flow	<input type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input type="checkbox"/>	
Barrier	<input checked="" type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input type="checkbox"/>	
ADDITIONAL NOTES		
Not fish habitat, ephemeral sections, shallow.		

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WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC-201c-3324
General Site Location:	Bear Lake
Watercourse Assessor(s):	CT, MT
Affiliation:	CBCL Limited
Field Assessment Date:	Nov 25 2022
UTM Coordinates:	Wp. 1488
Datum:	NAD 1893
SUBSTRATE	
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE MORPHOLOGY	
Watercourse Type	Intermittent with Ephemeral Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Downstream at Crossing



Photo 2: Loss of channelization upstream

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Sphagnum	#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage		
IMPORTANT FEATURES OBSERVED		
Vegetated Across		<input type="checkbox"/>
Flows into Fish Habitat Downstream		<input type="checkbox"/>
Underground Sections or Groundwater		<input type="checkbox"/>
Surface Flow		<input type="checkbox"/>
Wetland Corridor (Flow Between Wetlands)		<input type="checkbox"/>
Barrier		<input type="checkbox"/>
Artificial Channelization		<input type="checkbox"/>
Culvert or Bridge		<input checked="" type="checkbox"/>
Water Flowing over Road (no Culvert)		<input type="checkbox"/>
No Defined Channel		<input checked="" type="checkbox"/>
ADDITIONAL NOTES		
Water sample taken, seasonal roadside drainage from WL. Moss, wet leaves, terrestrial veg. Not channelized upstream, very small channel at culvert. Not fish habitat.		

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WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202a-2108
General Site Location:	Bear Lake
Watercourse Assessor(s):	CT, MT
Affiliation:	CBCL Limited
Field Assessment Date:	Nov 22 2022
UTM Coordinates:	
Datum:	NAD 1983
SUBSTRATE	
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE MORPHOLOGY	
Watercourse Type	Ephemeral
Stage (season was very dry)	Low

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Sphagnum moss	#N/A
2	Eastern Hemlock	<i>Tsuga canadensis</i>
3	Red Spruce	<i>Picea rubens</i>
4	Red Maple	<i>Acer rubrum</i>
5	Wild Raisin	#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage	Young Forest	
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input checked="" type="checkbox"/>	
Surface Flow	<input type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input type="checkbox"/>	
Barrier	<input type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input checked="" type="checkbox"/>	
ADDITIONAL NOTES		
<p>Very little surface water, wet sphagnum, no defined channel, ditch dry in spots. Wet stagnant pool in others. NOT fish habitat- likely seasonal drainage. (pics 11:04-11:05)</p>		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202b-2137
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL Limited
Field Assessment Date:	Dec 15 2022
UTM Coordinates:	
Datum:	NAD 1983
SUBSTRATE	
Dominant	Cobble
Subdominant	Boulder
Subdominant	Fines
Subdominant	Gravel
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.8
Average Wetted Width (m)	1.5
Average Bankful Depth (m)	
Average Water Depth (m)	0.15
Average Pool Depth (m)	
WATERCOURSE MORPHOLOGY	
Watercourse Type	Ephemeral with Intermittent Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream cobble block

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage	Young Forest	
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input type="checkbox"/>	
Surface Flow	<input checked="" type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input type="checkbox"/>	
Barrier	<input checked="" type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input checked="" type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input type="checkbox"/>	
ADDITIONAL NOTES		
No fish habitat, roadside ditch, instream algae, culvert D/S damaged, small plunge pool (no perched culvert). Meandering D/S, Linear U/S. Mostly deciduous forest.		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202b-2553 (WC-20)
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL Limited
Field Assessment Date:	Dec 15 2022
UTM Coordinates:	
Datum:	NAD1983
SUBSTRATE	
Dominant	Gravel
Subdominant	Organics
Subdominant	Cobble
Trace	Boulder
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.0
Average Wetted Width (m)	1.0
Average Bankful Depth (m)	
Average Water Depth (m)	0.1
Average Pool Depth (m)	
WATERCOURSE MORPHOLOGY	
Watercourse Type	Ephemeral with Intermittent Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage		
IMPORTANT FEATURES OBSERVED		
Vegetated Across		<input type="checkbox"/>
Flows into Fish Habitat Downstream		<input type="checkbox"/>
Underground Sections or Groundwater		<input type="checkbox"/>
Surface Flow		<input checked="" type="checkbox"/>
Wetland Corridor (Flow Between Wetlands)		<input type="checkbox"/>
Barrier		<input type="checkbox"/>
Artificial Channelization		<input type="checkbox"/>
Culvert or Bridge		<input type="checkbox"/>
Water Flowing over Road (no Culvert)		<input type="checkbox"/>
No Defined Channel		<input type="checkbox"/>
ADDITIONAL NOTES		
Ditch = Roadfill, gravel, cobble, boulders. Step pools 1.5m H x 2-3m L- (~40%) slope. Turb =clear. Likely frozen in winter and dry in summer.		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202b-2796
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB, NH
Affiliation:	CBCL Limited
Field Assessment Date:	Dec 15 2022
UTM Coordinates:	20T 0405435 4962569
Datum:	NAD1983
SUBSTRATE	
Dominant	Gravel
Subdominant	Fines
Subdominant	Cobble
Trace	Boulder
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.37
Average Wetted Width (m)	1.03
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	0.13
WATERCOURSE MORPHOLOGY	
Watercourse Type	Intermittent with Ephemeral Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	birch sp.	#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage		
IMPORTANT FEATURES OBSERVED		
Vegetated Across		<input type="checkbox"/>
Flows into Fish Habitat Downstream		<input type="checkbox"/>
Underground Sections or Groundwater		<input type="checkbox"/>
Surface Flow		<input checked="" type="checkbox"/>
Wetland Corridor (Flow Between Wetlands)		<input type="checkbox"/>
Barrier		<input checked="" type="checkbox"/>
Artificial Channelization		<input type="checkbox"/>
Culvert or Bridge		<input checked="" type="checkbox"/>
Water Flowing over Road (no Culvert)		<input type="checkbox"/>
No Defined Channel		<input type="checkbox"/>
ADDITIONAL NOTES		
Side channel input from W. Roadside ditch, roadside substrates influenced by road. Small stream input into ditch, no inverts. Not fish habitat. Step pool habitat upstream of crossing. Culvert under road at crossing.		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202c-3224
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL Limited
Field Assessment Date:	Dec 15 2022
UTM Coordinates:	
Datum:	NAD 1983
SUBSTRATE	
Dominant	Fines
Subdominant	Gravel
Subdominant	Cobble
Trace	Boulder
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.3
Average Wetted Width (m)	1.2
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	0.2
WATERCOURSE MORPHOLOGY	
Watercourse Type	Small Permanent with Intermittent Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Culvert looking downstream at crossing.



Photo 2: Upstream cascade feature

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage	Young Forest	
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input type="checkbox"/>	
Surface Flow	<input type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input type="checkbox"/>	
Barrier	<input checked="" type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input checked="" type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input type="checkbox"/>	
ADDITIONAL NOTES		
Poor US habitat, shallow, fine minimal cover. Perched culvert, cascade feature 20m u/s of CL impossible to fish. Concrete culvert @ cl/road, 900mm, perched d/s (0.7m drop) 2 channels flow into roadside ditch/main channel		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC-202d-2810
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL Limited
Field Assessment Date:	Dec 15 2022
UTM Coordinates:	
Datum:	NAD 1983
SUBSTRATE	
Dominant	
Subdominant	Boulder
Subdominant	Cobble
Subdominant	Gravel
Subdominant	Fines
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	0.6
Average Wetted Width (m)	0.6
Average Bankful Depth (m)	0.2
Average Water Depth (m)	0.15
Average Pool Depth (m)	
WATERCOURSE MORPHOLOGY	
Watercourse Type	Small Permanent with Intermittent Characteristics
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Culvert at crossing



Photo 2: Upstream, showing step pool habitat

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Yellow Birch	<i>Betula alleghaniensis</i>
2	Red Maple	<i>Acer rubrum</i>
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage		
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input type="checkbox"/>	
Surface Flow	<input checked="" type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input type="checkbox"/>	
Barrier	<input checked="" type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input checked="" type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input checked="" type="checkbox"/>	
ADDITIONAL NOTES		
Potentially permanent drainage, step pool habitat -50% pool/50% riffle, culvert on road, CSP under road (600mm), roadside ditch b/w wp.199-201 ~60m, small pools (shallow) not deep enough for passage (step-pool). Goes overland flow d/s of culvert - channel not observed		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202e-2213
General Site Location:	Bear Lake
Watercourse Assessor(s):	CM, NH
Affiliation:	CBCL Limited
Field Assessment Date:	Nov 18 2022
UTM Coordinates:	
Datum:	NAD 1983
SUBSTRATE	
Dominant	Fines
Subdominant	
Subdominant	
Trace	Gravel
Trace	Cobble
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.68
Average Wetted Width (m)	0.53
Average Bankful Depth (m)	
Average Water Depth (m)	0.09
Average Pool Depth (m)	0.22
WATERCOURSE MORPHOLOGY	
Watercourse Type	Ephemeral
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing, perch culvert

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage		
IMPORTANT FEATURES OBSERVED		
Vegetated Across		<input type="checkbox"/>
Flows into Fish Habitat Downstream		<input type="checkbox"/>
Underground Sections or Groundwater		<input type="checkbox"/>
Surface Flow		<input type="checkbox"/>
Wetland Corridor (Flow Between Wetlands)		<input type="checkbox"/>
Barrier		<input type="checkbox"/>
Artificial Channelization		<input type="checkbox"/>
Culvert or Bridge		<input checked="" type="checkbox"/>
Water Flowing over Road (no Culvert)		<input type="checkbox"/>
No Defined Channel		<input checked="" type="checkbox"/>
ADDITIONAL NOTES		
<p>WC U/S of road is WL. No WC U/S. Start assessment @ pooled water at culvert on U/S side of road. Culvert = 30 cm dia steel pipe. Flow into culvert from WL and roadside ditch. Flows D/S through culvert. No fish habitat U/S. Highly fragmented in assessed D/S reach. Poor quality fish habitat. WC is ephem drainage, through WL area. Only a few sections are actually flowing and open, but reach too fragmented U/S of culvert to provide fish habitat. Complete barriers. Sphagnum sections, underground flow etc. Hung culvert, culvert is hung and drainage from U/S flowing through road fill not culvert.</p>		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202e-2980 (WC-19)
General Site Location:	Bear Lake
Watercourse Assessor(s):	CM, NH
Affiliation:	CBCL Limited
Field Assessment Date:	Nov 18 2022
UTM Coordinates:	Wp. 2720
Datum:	NAD 1983
SUBSTRATE	
Dominant	Fines
Subdominant	
Subdominant	
Subdominant	Boulder
Trace	Gravel
Trace	Cobble
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.2
Average Wetted Width (m)	1.0
Average Bankful Depth (m)	
Average Water Depth (m)	0.06
Average Pool Depth (m)	
WATERCOURSE MORPHOLOGY	
Watercourse Type	Ephemeral with Intermittent Characteristics
Stage (season was very dry)	High

PHOTOS



Photo 1: Perched culvert at crossing



Photo 2: Upstream fragmented area

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Yellow Birch	<i>Betula alleghaniensis</i>
2	White Pine	#N/A
3	Red Maple	<i>Acer rubrum</i>
4	Balsam Fir	<i>Abies balsamea</i>
5	Red Spruce	<i>Picea rubens</i>
6	Sphagnum	#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage	Mature Forest	
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input checked="" type="checkbox"/>	
Surface Flow	<input type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input type="checkbox"/>	
Barrier	<input type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input checked="" type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input checked="" type="checkbox"/>	
ADDITIONAL NOTES		
<p>Did not continue D/S as WC transitions into WL, abundant blow down and lack of time remaining in the day. D/S of culvert WC appears to flow through multiple narrow and shallow channels without a clear flow path. Channels do not merge within assessment area. Sample collected D/S of culvert (~20m) before flow splits into multiple channels, Expect this entire slope U/S and D/S of the road was originally a big WL, and the road and culverts resulting in the messy WL/WCs in area. The area was also logged and covered in logging tracks throughout. Wp.2720- network a short emph. channels but no clear main channel. Due to placement of culvert? No natural channel here. has floodplain features. U/S reach fragmented by dry areas and underground flow in WL areas, Step section @ Wp. 2716 may be barrier to passage. Dry @2718 -2719 = flow through ditch to culvert. Two ~50cm dia, culverts (one plastic, one metal) pics NH, D/S WC flows through swamp in a network of short branching, connecting and rebranching channels, expect this is man-made due to placement of culverts. D/S is logged and lots of tracks in cuts have emph. flow. D/s side also looking flooded/wet outside of WL channel and flow in logging tracks. Overall, Poor fish habitat.</p>		

Watercourse Fact Sheet: Not Fish Habitat

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC202e-3096
General Site Location:	Bear Lake
Watercourse Assessor(s):	CM
Affiliation:	CBCL Limited
Field Assessment Date:	Nov 18 2022
UTM Coordinates:	Wp. 2701
Datum:	NAD 1983
SUBSTRATE	
Dominant	Fines
Subdominant	Cobble
Subdominant	Gravel
Trace	Boulder
Trace	
Trace	
CHANNEL MEASUREMENTS	
Average Channel Width (m)	1.5
Average Wetted Width (m)	1.5
Average Bankful Depth (m)	0.2
Average Water Depth (m)	0.18
Average Pool Depth (m)	0.3
WATERCOURSE MORPHOLOGY	
Watercourse Type	Intermittent
Stage (season was very dry)	Mid

PHOTOS



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Red Spruce	<i>Picea rubens</i>
2	Eastern Hemlock	<i>Tsuga canadensis</i>
3	Balsam Fir	<i>Abies balsamea</i>
4	Striped Maple	<i>Acer pensylvanicum</i>
5	Sphagnum	#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
Vegetation Stage	Young Forest	
IMPORTANT FEATURES OBSERVED		
Vegetated Across	<input type="checkbox"/>	
Flows into Fish Habitat Downstream	<input type="checkbox"/>	
Underground Sections or Groundwater	<input type="checkbox"/>	
Surface Flow	<input type="checkbox"/>	
Wetland Corridor (Flow Between Wetlands)	<input checked="" type="checkbox"/>	
Barrier	<input checked="" type="checkbox"/>	
Artificial Channelization	<input type="checkbox"/>	
Culvert or Bridge	<input type="checkbox"/>	
Water Flowing over Road (no Culvert)	<input type="checkbox"/>	
No Defined Channel	<input type="checkbox"/>	
ADDITIONAL NOTES		
<p>Wp.2700 - Yellow WC on map - Feature not observed. Mapped feature is logging track through WL. Pics @ 12:42 (NH). Wp. 2702 - WL area that fragments WC. Barricaded passage in WL area. Drainage ditch along road that accomidates WL. WC is only US. Culvert present.</p>		

APPENDIX C

Water Quality Data

TABLE C.1

GENERAL CHEMISTRY AND METALS IN SURFACE WATER - 2022 RESULTS
 Bear Lake Phase 4 Water Quality Results
 Nova Scotia Power Inc.
 New Wind - Bear Lake
 Project No. 221266.01

Parameters	Units	RDL ¹	Guidelines		Sample IDs																	CR6-2
			NSE Tier 1 EQS ² Freshwater	CCME FWAL ³	Bear Lake Phase 4 - WQ-01	Bear Lake Phase 4 - WQ-02	Bear Lake Phase 4 - WQ-03	Bear Lake Phase 4 - WQ-04	Bear Lake Phase 4 - WQ-05	Bear Lake Phase 4 - WQ-06	Bear Lake Phase 4 - WQ-07	Bear Lake Phase 4 - WQ-08	Bear Lake Phase 4 - WQ-09	Bear Lake Phase 4 - WQ-10	Bear Lake Phase 4 - WQ-11	Bear Lake Phase 4 - WQ-12	Bear Lake Phase 4 - WQ-13	Bear Lake Phase 4 - WQ-14	Bear Lake Phase 4 - WQ-15			
			16-Dec-22	04-Nov-22	16-Nov-22	16-Dec-22	16-Nov-22	16-Dec-22	16-Dec-22	25-Nov-22	25-Nov-22	25-Nov-22	18-Nov-22	18-Nov-22	15-Dec-22	22-Nov-22	22-Nov-22	22-Nov-22	22-Nov-22			
Calculated Parameters																						
Anion Sum	me/L	N/A	-	-	0.14	0.1	0.120	0.11	0.120	0.12	0.11	0.08	0.09	0.08	0.0900	0.0900	0.11	0.13	0.17	-		
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Calculated TDS	mg/L	1.0	-	-	17	14	15	13	15	15	13	14	15	14	14	14	12	14	19	-		
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Cation Sum	me/L	N/A	-	-	0.24	0.22	0.270	0.22	0.240	0.29	0.25	0.17	0.22	0.19	0.200	0.210	0.18	0.19	0.26	-		
Hardness (CaCO3)	mg/L	1.0	-	-	2.1	2.6	2.5	2.2	2.9	4.5	2.3	1.3	2.9	1.4	1.9	1.5	2.7	2.9	3.4	-		
Hydrox. Alkalinity (calc. as CaCO3)	mg/L	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ion Balance (% Difference)	%	N/A	-	-	26.3	37.5	38.5	33.3	33.3	41.5	38.9	36	41.9	40.7	37.9	40.0	24.1	18.8	20.9	-		
Langelier Index (@ 20C)	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Langelier Index (@ 4C)	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nitrate (N)	mg/L	0.050	13	13 ^d	0.34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-		
Saturation pH (@ 20C)	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Saturation pH (@ 4C)	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Inorganics																						
Total Alkalinity (Total as CaCO3)	mg/L	5.0	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
Dissolved Chloride (Cl)	mg/L	1.0	120	120	4	3.5	4.3	3.9	4.1	4.2	3.8	3	3.3	2.9	3.3	3.4	4	4.6	6	-		
Colour	TCU	5.0	-	-	200	120	250	130	140	140	180	110	72	180	160	110	21	49 ^h	110	-		
Dissolved Fluoride (F-)	mg/L	0.10	0.12	0.12 ^d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nitrate + Nitrite (N)	mg/L	0.050	-	-	0.34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-		
Nitrite (N)	mg/L	0.010	0.06	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	-		
Nitrogen (Ammonia Nitrogen)	mg/L	0.050	-	125.83 ^b	<0.050	0.056	<0.050	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-		
Total Organic Carbon (C)	mg/L	0.50	-	-	22	18	32	16	19	25	22	17	11	21	24	16	2.1	7.9	15	-		
Orthophosphate (P)	mg/L	0.010	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-		
pH	pH	N/A	6.5 - 9.0	6.5 - 9.0	4.14	4.65	4.16	4.34	4.34	4.21	4.2	4.68	4.65	4.38	4.62	4.57	6.06	5.32	4.46	-		
Total Phosphorus	mg/L	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Reactive Silica (SiO2)	mg/L	0.50	-	-	7.9	6.3	6.5	5.4	7.2	5.5	4.8	8.1	7.1	8	6.9	6.4	4.4	5.8	7.7	-		
Total Suspended Solids	mg/L	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dissolved Sulphate (SO4)	mg/L	10	128	128 ^c	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-		
Turbidity	NTU	0.10	-	-	0.85	0.35	1.0	0.51	0.43	<0.10	1.1	3.2	1.8	2.9	0.39	0.37	0.28	0.17	0.7	-		
Conductivity	uS/cm	1.0	-	-	51	29	41	39	33	40	39	30	33	35	32	23	21	39	-	-		
Metal Parameters																						
Total Aluminium (Al)	ug/L	5.0	5	5 ^d	650	590	980	550	670	360	750	670	620	810	850	670	300	340	510	-		
Total Antimony (Sb)	ug/L	1.0	9	9 ^c	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-		
Total Arsenic (As)	ug/L	1.0	5	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-		
Total Barium (Ba)	ug/L	1.0	1,000	1,000 ^e	3.3	3.5	4.1	3.3	3.5	4.9	3.7	2.4	2.9	3.1	3.2	3.4	4.7	5.9	-	-		
Total Beryllium (Be)	ug/L	1.0	0.15	0.15 ^c	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-		
Total Bismuth (Bi)	ug/L	2.0	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-		
Total Boron (B)	ug/L	50	1,500	1,500 ^d	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-		
Total Cadmium (Cd)	ug/L	0.010	0.09	0.04 ^e	0.031	0.034	0.038	0.032	0.040	0.03	0.036	0.027	0.022	0.021	0.033	0.026	0.023	0.032	0.058	-		
Total Calcium (Ca)	ug/L	100	-	-	330	540	420	380	640	950	330	190	720	210	330	250	610	660	780	-		
Total Chromium (Cr)	ug/L	1.0	8.9	1 ^f	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-		
Hexavalent Chromium (Cr 6+)	ug/L	5-9.9	8.9	1 ^f	<9.9	-	<9.9	-	<9.9	-	<9.9	-	<9.9	-	<9.9	-	<9.9	-	<9.9	<9.9		
Total Cobalt (Co)	ug/L	0.40	1	1 ^c	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-		
Total Copper (Cu)	ug/L	2.0	2	2 ^e	0.59	0.52	<0.50	<0.50	0.59	0.64	0.62	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	<0.50	<0.50	-		
Total Iron (Fe)	ug/L	50	300	300	580	420	790	450	380	710	620	340	310	490	510	440	110	200	360	-		
Total Lead (Pb)	ug/L	0.50	1	1 ^e	1.3	0.52	1.5	0.74	0.75	0.78	1.7	0.69	0.56	0.86	0.73	0.61	<0.50	<0.50	0.53	-		
Total Magnesium (Mg)	ug/L	100	-	-	310	310	360	310	310	510	350	200	280	200	260	220	300	310	370	-		
Total Manganese (Mn)	ug/L	2.0	430	290 ^{d,e}	16	33	14	33	23	44	16	11	33	12	15	32	48	42	34	-		
Total Mercury (Hg)	ug/L	0.013	0.026	0.026 ^d	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-		
Total Molybdenum (Mo)	ug/L	2.0	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-		
Total Nickel (Ni)	ug/L	2.0	25	25 ^e	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-		
Total Phosphorus (P)	ug/L	100	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-		
Total Potassium (K)	ug/L	100	-	-	<100	120	<100	110	<100	120	120	120	250	110	110	<100	<100	160	320	-		
Total Selenium (Se)	ug/L	1.0	1	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-		
Total Silver (Ag)	ug/L	0.10	0.25	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-		
Total Sodium (Na)	ug/L	100	-	-	2500	2900	2900	2400	2700	2600	2600	2400	2700	2300	2800	3100	2900	2600	3200	-		
Total Strontium (Sr)	ug/L	2.0	21,000	21,000 ^e	2.8	3.4	3.5	3.3	4.0	6.7	2.9	2	3.2	2.1	2.7	2.4	3.3	4	5.2	-		
Total Thallium (Tl)	ug/L	0.10	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-		
Total Tin (Sn)	ug/L	2.0	-	-	<2.0	<2.0																



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APPENDIX F
STRUM ELECTROFISHING RESULTS PHOTOLOG



Photo 1. A representative photo of Black Brook.



Photo 2. A white sucker (*Catostomus commersonii*) caught during electrofishing pass #1 of Black Brook.



Photo 3. A lake chub (*Coesius plumbeus*) caught during electrofishing pass #1 of Black Brook.

Photo 4. No photo was taken of the nine-spined stickleback (*Pungitius pungitius*).



Photo 5. A representative photo of Smeltzer Brook.



Photo 6. A representative photo of the surveyed tributary of Armstrong River.



Photo 7. A representative photo of the first surveyed tributary of Southwest Brook.



Photo 8. A representative photo of the second surveyed tributary of Southwest Brook.

APPENDIX G
ACCDC REPORT

DATA REPORT 7739: Bear Lake, NS

Prepared 23 June 2023

by C. Robicheau, Conservation Data
Analyst

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5.1 Source Bibliography



Map 1. A 100 km buffer around the study area

1.0 PREFACE

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

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

1.1 DATA LIST

Included datasets:

Filename

BearLkNS_7739ob.xls

BearLkNS_7739ob100km.xls

BearLkNS_7739msa.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

Managed and Biologically Significant Areas in your study area

1.2 RESTRICTIONS

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

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

1.3 ADDITIONAL INFORMATION

The accompanying Data Dictionary provides metadata for the data provided.

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

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney
Senior Scientist / Executive Director
(506) 364-2658
sean.blaney@accdc.ca

Animals (Fauna)

John Klymko
Zoologist
(506) 364-2660
john.klymko@accdc.ca

Data Management, GIS

James Churchill
Conservation Data Analyst / Field Biologist
(902) 679-6146
james.churchill@accdc.ca

Billing

Jean Breau
Financial Manager / Executive Assistant
(506) 364-2657
jean.breau@accdc.ca

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:

Western: Emma Vost
(902) 670-8187
Emma.Vost@novascotia.ca

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Eastern: Elizabeth Walsh
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Elizabeth.Walsh@novascotia.ca

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

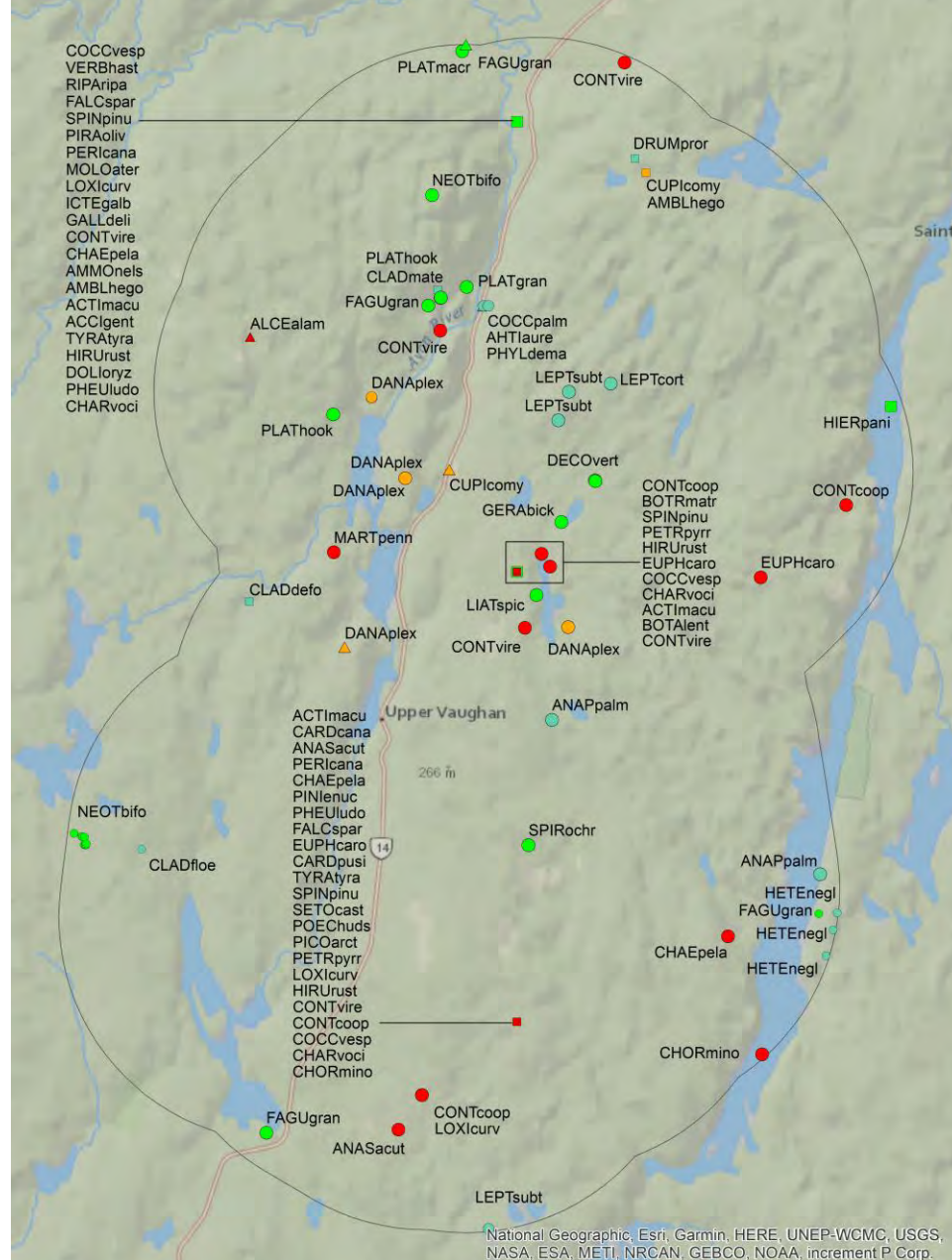
2.1 FLORA

The study area contains 26 records of 12 vascular and 16 records of 11 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 104 records of 34 vertebrate and 10 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**
- 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

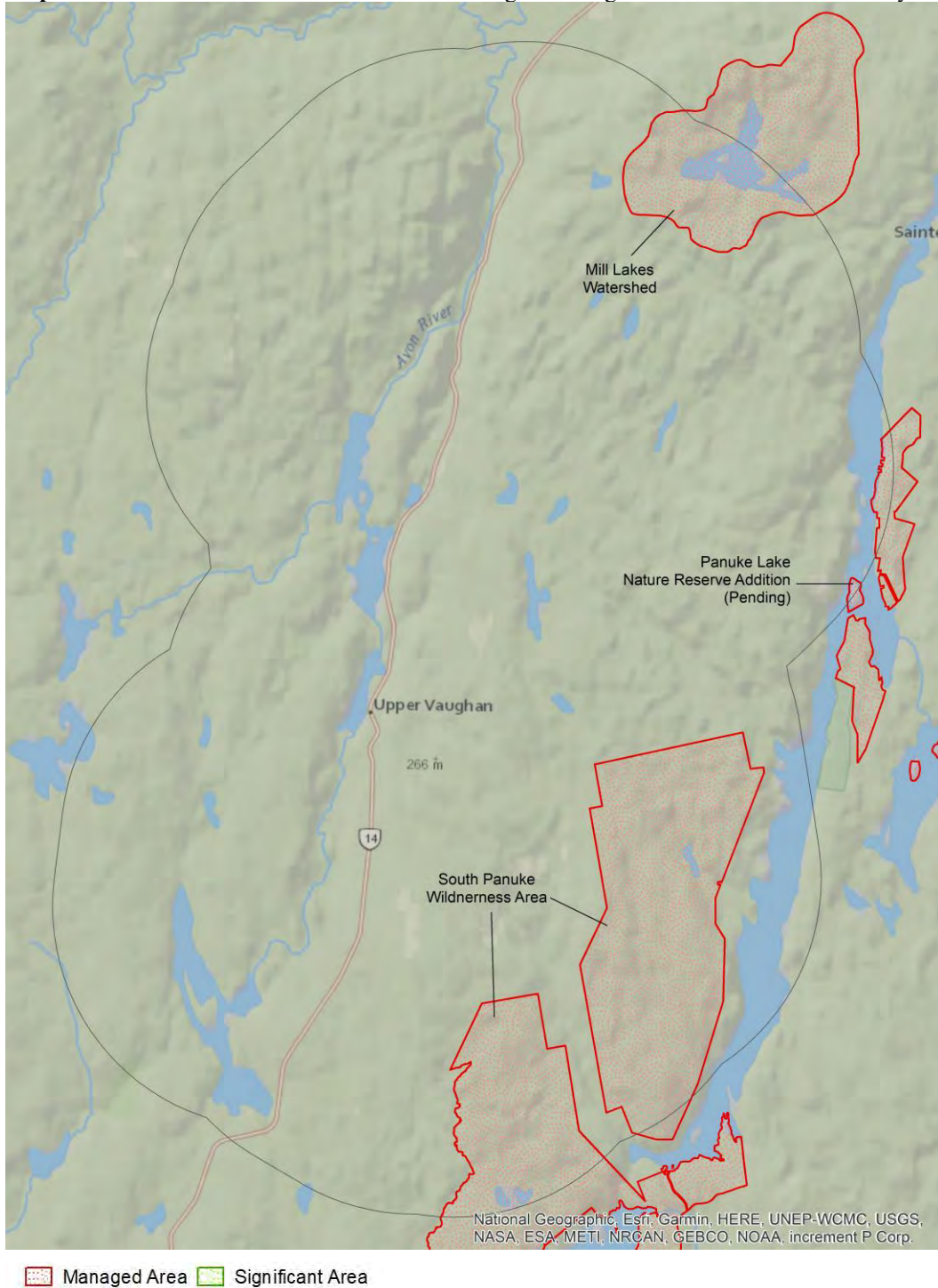
3.1 MANAGED AREAS

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

3.2 SIGNIFICANT AREAS

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

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



4.0 RARE SPECIES LISTS

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

4.1 FLORA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
N	<i>Phyllicum demageonii</i>	Black Rock-wafer Lichen				S2?	1	7.4 \pm 0.0
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3	1	7.4 \pm 2.0
N	<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup				S2S3	1	7.8 \pm 6.0
N	<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen				S2S3	1	5.4 \pm 4.0
N	<i>Drummondia prorepens</i>	a Moss				S3?	1	11.2 \pm 5.0
N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	3	13.1 \pm 0.0
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	1	9.1 \pm 0.0
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	1	6.3 \pm 0.0
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4	1	7.4 \pm 0.0
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	2	2.3 \pm 0.0
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	3	10.0 \pm 0.0
P	<i>Liatris spicata</i>	Dense Blazing Star	Threatened	Threatened		SNA	1	1.4 \pm 0.0
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2	1	13.2 \pm 1.0
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3	1	3.1 \pm 0.0
P	<i>Neottia bifolia</i>	Southern Twayblade				S3	9	10.0 \pm 0.0
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	1	7.8 \pm 0.0
P	<i>Platanthera hookeri</i>	Hooker's Orchid				S3	3	6.1 \pm 0.0
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3?	1	4.7 \pm 0.0
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed				S3S4	1	10.3 \pm 11.0
P	<i>Fagus grandifolia</i>	American Beech				S3S4	4	12.0 \pm 0.0
P	<i>Decodon verticillatus</i>	Swamp Loosestrife				S3S4	2	4.2 \pm 0.0
P	<i>Verbena hastata</i>	Blue Vervain				S3S4	1	11.5 \pm 7.0
P	<i>Botrychium matricariifolium</i>	Daisy-leaved Moonwort				S3S4	1	1.6 \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	2	11.5 \pm 7.0
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	5	11.5 \pm 7.0
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	4	1.6 \pm 7.0
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	9	1.6 \pm 7.0
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1	8.5 \pm 7.0
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	2	11.0 \pm 0.0
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	10	1.6 \pm 7.0
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	4	11.5 \pm 7.0
A	<i>Coccythraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	5	1.6 \pm 7.0
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	10	0.8 \pm 0.0
A	<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4	1	11.5 \pm 7.0
A	<i>Ammodramus nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	1	11.5 \pm 7.0
A	<i>Alces alces americana</i>	Moose			Endangered	S1	1	8.6 \pm 0.0
A	<i>Anas acuta</i>	Northern Pintail				S1B,SUM	2	11.1 \pm 0.0
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	1	11.5 \pm 7.0
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B,SUM	1	11.5 \pm 7.0
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	2	1.6 \pm 7.0
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B,SUM	1	11.5 \pm 7.0

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	4	11.5 ± 7.0
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	2	8.5 ± 7.0
A	<i>Spinus pinus</i>	Pine Siskin				S3	5	1.6 ± 7.0
A	<i>Pekania pennanti</i>	Fisher				S3	1	4.0 ± 0.0
A	<i>Charadrius vociferus</i>	Killdeer				S3B	4	1.6 ± 7.0
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	4	11.5 ± 7.0
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	3	11.5 ± 7.0
A	<i>Falco sparverius</i>	American Kestrel				S3B,S4S5M	2	11.5 ± 7.0
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B,S5M	2	11.5 ± 7.0
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	1	8.5 ± 7.0
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	1	8.5 ± 7.0
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	1	8.5 ± 7.0
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	3	10.2 ± 0.0
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B,S4S5M	2	1.6 ± 7.0
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B,S4S5M	2	8.5 ± 7.0
A	<i>Actitis macularia</i>	Spotted Sandpiper				S3S4B,S5M	5	1.6 ± 7.0
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	6	1.8 ± 0.0
I	<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S3S4	2	10.9 ± 5.0
I	<i>Cupido comyntas</i>	Eastern Tailed Blue				S3S4	2	10.9 ± 5.0

4.3 LOCATION SENSITIVE SPECIES

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

Nova Scotia

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

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

4.4 SOURCE BIBLIOGRAPHY

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

# recs	CITATION
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1	Hubley, Nicole. 2022. Monarch (<i>Danaus plexippus</i>) records submitted to MTRI from the 2021 field season. Mersey Tobeatic Research Institute.
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1	Pronych, G. & Wilson, A. 1993. Atlas of Rare Vascular Plants in Nova Scotia. Nova Scotia Museum, Halifax NS, I:1-168, II:169-331. 1446 recs.
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5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 62717 records of 159 vertebrate and 2800 records of 80 invertebrate fauna; 17724 records of 303 vascular and 3777 records of 229 nonvascular flora (attached: *ob100km.xls).

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

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Coregonus huntsmani</i>	Atlantic Whitefish	Endangered	Endangered	Endangered	S1	147	50.3 \pm 1.0	NS
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	680	2.2 \pm 0.0	NS
A	<i>Myotis septentrionalis</i>	Northern Myotis	Endangered	Endangered	Endangered	S1	81	22.3 \pm 0.0	NS
A	<i>Perimyotis subflavus</i>	Tricolored Bat	Endangered	Endangered	Endangered	S1	189	22.3 \pm 0.0	NS
A	<i>Emydoidea blandingii</i>	Blanding's Turtle	Endangered	Endangered	Endangered	S1	10168	39.6 \pm 1.0	NS
A	<i>Salmo salar pop. 1</i>	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered		S1	40	16.6 \pm 0.0	NS
A	<i>Salmo salar pop. 6</i>	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	25	15.6 \pm 0.0	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	1063	37.1 \pm 0.0	NS
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	62	30.8 \pm 0.0	NS
A	<i>Dermodochelys coriacea pop. 2</i>	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	3	24.5 \pm 5.0	NS
A	<i>Morone saxatilis pop. 2</i>	Striped Bass - Bay of Fundy population	Endangered			S2S3B,S2S3N	5	30.0 \pm 1.0	NS
A	<i>Lamna nasus</i>	Porbeagle Shark	Endangered			SNR	1	60.3 \pm 0.0	NS
A	<i>Lasiurus cinereus</i>	Hoary Bat	Endangered			SUB, S1M	58	24.7 \pm 0.0	NS
A	<i>Lasionycteris noctivagans</i>	Silver-haired Bat	Endangered			SUB,S1M	18	26.0 \pm 0.0	NS
A	<i>Lasiurus borealis</i>	Eastern Red Bat	Endangered			SUB,S1M	4	22.9 \pm 0.0	NS
A	<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Threatened	Endangered	S1B	1	78.9 \pm 7.0	NS
A	<i>Asio flammeus</i>	Short-eared Owl	Threatened	Special Concern		S1B	33	32.9 \pm 7.0	NS
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	1883	17.0 \pm 5.0	NS
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	1820	9.5 \pm 7.0	NS
A	<i>Thamnophis saurita</i>	Eastern Ribbonsnake	Threatened	Threatened	Threatened	S2S3	2465	53.7 \pm 0.0	NS
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	1650	8.5 \pm 0.0	NS
A	<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S2S3M	103	20.8 \pm 0.0	NS
A	<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Threatened			S2S3N	12	23.4 \pm 0.0	NS
A	<i>Hydrobates leucorhous</i>	Leach's Storm-Petrel	Threatened			S3B	25	32.3 \pm 0.0	NS
A	<i>Tringa flavipes</i>	Lesser Yellowlegs	Threatened			S3M	937	20.8 \pm 0.0	NS
A	<i>Anguilla rostrata</i>	American Eel	Threatened			S3N	323	23.7 \pm 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened		SHB	5	31.5 ± 7.0	NS
A	<i>Ixobrychus exilis</i>	Least Bittern	Threatened	Threatened		SUB	2	55.3 ± 0.0	NS
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB	41	23.5 ± 7.0	NS
A	<i>Salmo salar pop. 12</i>	Atlantic Salmon - Gaspé - Southern Gulf of St. Lawrence population	Special Concern			S1	2	94.8 ± 0.0	NS
A	<i>Antrostomus vociferus</i>	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	15	19.5 ± 7.0	NS
A	<i>Passerculus sandwichensis princeps</i>	Ipswich Sparrow	Special Concern	Special Concern		S1B	29	35.9 ± 0.0	NS
A	<i>Bucephala islandica</i>	Barrow's Goldeneye	Special Concern	Special Concern		S1N,SUM	20	32.6 ± 2.0	NS
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	325	1.6 ± 7.0	NS
A	<i>Balaenoptera physalus</i>	Fin Whale	Special Concern	Special Concern		S2S3	3	49.8 ± 0.0	NS
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	14	22.6 ± 0.0	NS
A	<i>Histrionicus histrionicus pop. 1</i>	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2S3N,SUM	72	42.3 ± 6.0	NS
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	897	13.8 ± 0.0	NS
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	1449	1.6 ± 7.0	NS
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1275	8.5 ± 7.0	NS
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	800	8.5 ± 7.0	NS
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	1302	1.6 ± 7.0	NS
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	1516	9.5 ± 7.0	NS
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	974	1.6 ± 7.0	NS
A	<i>Podiceps auritus</i>	Horned Grebe	Special Concern	Special Concern		S3N,SUM	24	25.0 ± 0.0	NS
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1580	0.8 ± 0.0	NS
A	<i>Phocoena phocoena</i>	Harbour Porpoise	Special Concern			S4	15	17.2 ± 1.0	NS
A	<i>Phocoena phocoena pop. 1</i>	Harbour Porpoise - Northwest Atlantic Population	Special Concern			S4	3	38.6 ± 0.0	NS
A	<i>Chrysemys picta</i>	Painted Turtle	Special Concern	Special Concern		S4	163	19.9 ± 0.0	NS
A	<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern	Special Concern		S4	1065	9.8 ± 0.0	NS
A	<i>Anarhichas lupus</i>	Atlantic Wolffish	Special Concern	Special Concern		SNR	5	25.4 ± 0.0	NS
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1?B,SUN,SUM	15	30.8 ± 0.0	NS
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1B	45	43.2 ± 0.0	NS
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S1B	1	77.1 ± 0.0	NS
A	<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Not At Risk		Vulnerable	S1B,SUM	191	21.5 ± 7.0	NS
A	<i>Sorex dispar</i>	Long-tailed Shrew	Not At Risk			S2	2	47.8 ± 0.0	NS
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S2?B,SUM	4	65.4 ± 7.0	NS
A	<i>Lynx canadensis</i>	Canada Lynx	Not At Risk		Endangered	S2S3	2	62.6 ± 1.0	NS
A	<i>Globicephala melas</i>	Long-finned Pilot Whale	Not At Risk			S2S3	3	65.4 ± 0.0	NS
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	58	19.5 ± 0.0	NS
A	<i>Megaptera novaeangliae</i>	Humpback Whale	Not At Risk			S3	5	44.0 ± 0.0	NS
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	301	21.3 ± 7.0	NS
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	120	27.3 ± 0.0	NS
A	<i>Buteo lagopus</i>	Rough-legged Hawk	Not At Risk			S3N	5	64.7 ± 0.0	NS
A	<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4	155	11.5 ± 7.0	NS
A	<i>Glaucomys volans</i>	Southern Flying Squirrel	Not At Risk			S3S4	12	21.4 ± 0.0	NS
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4	5	27.0 ± 0.0	NS
A	<i>Ammodramus nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	171	11.5 ± 7.0	NS
A	<i>Calidris canutus rufa</i>	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2M	644	20.8 ± 0.0	NS
A	<i>Calidris canutus</i>	Red Knot	E,SC	E,T		S2M	5	65.0 ± 0.0	NS
A	<i>Morone saxatilis</i>	Striped Bass	E,SC			S2S3B,S2S3N	31	21.7 ± 0.0	NS
A	<i>Gadus morhua</i>	Atlantic Cod	E,SC,DD			SNR	11	38.2 ± 0.0	NS
A	<i>Salmo salar</i>	Atlantic Salmon	E,T,SC			S1B,S1N	14	19.4 ± 0.0	NS
A	<i>Alces alces americana</i>	Moose			Endangered	S1	33	8.6 ± 0.0	NS
A	<i>Alces alces</i>	Moose				S1	11	37.3 ± 0.0	NS
A	<i>Uria aalge</i>	Common Murre				S1?B	7	54.2 ± 0.0	NS
A	<i>Passerina cyanea</i>	Indigo Bunting				S1?B,SUM	49	9.5 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B	15	54.1 ± 0.0	NS
A	<i>Gallinula galeata</i>	Common Gallinule				S1B	13	19.3 ± 7.0	NS
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	45	23.5 ± 7.0	NS
A	<i>Cistothorus palustris</i>	Marsh Wren				S1B	5	59.2 ± 7.0	NS
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	93	19.6 ± 0.0	NS
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	24	37.0 ± 7.0	NS
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B,S4M	1900	20.8 ± 0.0	NS
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B,S4M	1369	20.8 ± 0.0	NS
A	<i>Anas acuta</i>	Northern Pintail				S1B,SUM	80	8.5 ± 7.0	NS
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B,SUM	21	31.5 ± 0.0	NS
A	<i>Vespertilionidae sp.</i>	bat species				S1S2	409	2.2 ± 0.0	NS
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S1S2B,SUM	64	30.6 ± 7.0	NS
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B,SUM	59	59.0 ± 0.0	NS
A	<i>Alca torda</i>	Razorbill				S2B	27	41.6 ± 0.0	NS
A	<i>Fratercula arctica</i>	Atlantic Puffin				S2B	31	41.8 ± 0.0	NS
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	64	29.7 ± 0.0	NS
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B	236	11.5 ± 7.0	NS
A	<i>Spatula clypeata</i>	Northern Shoveler				S2B,SUM	91	20.7 ± 0.0	NS
A	<i>Mareca strepera</i>	Gadwall				S2B,SUM	104	22.6 ± 7.0	NS
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2B,SUM	63	11.5 ± 7.0	NS
A	<i>Calidris alba</i>	Sanderling				S2N,S3M	1469	20.8 ± 0.0	NS
A	<i>Martes americana</i>	American Marten			Endangered	S2S3	16	50.7 ± 0.0	NS
A	<i>Asio otus</i>	Long-eared Owl				S2S3	27	22.3 ± 7.0	NS
A	<i>Rallus limicola</i>	Virginia Rail				S2S3B	31	29.4 ± 7.0	NS
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S2S3B	18	43.0 ± 0.0	NS
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	306	1.6 ± 7.0	NS
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2S3B,S2S3N	69	14.1 ± 0.0	NS
A	<i>Cathartes aura</i>	Turkey Vulture				S2S3B,S4S5M	165	23.1 ± 0.0	NS
A	<i>Setophaga pinus</i>	Pine Warbler				S2S3B,S4S5M	58	31.6 ± 7.0	NS
A	<i>Bucephala clangula</i>	Common Goldeneye				S2S3B,S5N,S5M	291	25.5 ± 0.0	NS
A	<i>Icterus galbula</i>	Baltimore Oriole				S2S3B,SUM	130	11.5 ± 7.0	NS
A	<i>Pluvialis dominica</i>	American Golden-Plover				S2S3M	260	20.8 ± 0.0	NS
A	<i>Numenius phaeopus</i>	Whimbrel				S2S3M	19	32.7 ± 0.0	NS
A	<i>Numenius phaeopus hudsonicus</i>	Whimbrel				S2S3M	257	33.1 ± 0.0	NS
A	<i>Phalaropus fulicarius</i>	Red Phalarope				S2S3M	4	65.0 ± 0.0	NS
A	<i>Perisoreus canadensis</i>	Canada Jay				S3	605	8.3 ± 0.0	NS
A	<i>Poecile hudsonicus</i>	Boreal Chickadee				S3	485	8.5 ± 7.0	NS
A	<i>Spinus pinus</i>	Pine Siskin				S3	619	1.6 ± 7.0	NS
A	<i>Salvelinus fontinalis</i>	Brook Trout				S3	149	15.4 ± 0.0	NS
A	<i>Salvelinus namaycush</i>	Lake Trout				S3	1	70.9 ± 0.0	NS
A	<i>Sorex maritimensis</i>	Maritime Shrew				S3	2	32.7 ± 1.0	NS
A	<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3	1	47.8 ± 0.0	NS
A	<i>Pekania pennanti</i>	Fisher				S3	19	4.0 ± 0.0	NS
A	<i>Calcarius lapponicus</i>	Lapland Longspur				S3?N,SUM	6	35.1 ± 0.0	NS
A	<i>Spatula discors</i>	Blue-winged Teal				S3B	176	21.5 ± 7.0	NS
A	<i>Charadrius vociferus</i>	Killdeer				S3B	679	1.6 ± 7.0	NS
A	<i>Tringa semipalmata</i>	Willet				S3B	1829	20.5 ± 0.0	NS
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	54	27.7 ± 7.0	NS
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	72	24.6 ± 0.0	NS
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	315	8.5 ± 7.0	NS
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	565	8.5 ± 7.0	NS
A	<i>Alosa pseudoharengus</i>	Alewife				S3B	30	15.6 ± 1.0	NS
A	<i>Somateria mollissima</i>	Common Eider				S3B,S3M,S3N	924	25.1 ± 0.0	NS
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S4M	2050	20.5 ± 0.0	NS
A	<i>Falco sparverius</i>	American Kestrel				S3B,S4S5M	310	8.5 ± 7.0	NS
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B,S5M	696	9.5 ± 7.0	NS
A	<i>Setophaga striata</i>	Blackpoll Warbler				S3B,S5M	122	12.4 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	117	8.5 ± 7.0	NS
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	143	8.5 ± 7.0	NS
A	<i>Setophaga tigrina</i>	Cape May Warbler				S3B,SUM	141	12.7 ± 7.0	NS
A	<i>Branta bernicla</i>	Brant				S3M	8	33.1 ± 0.0	NS
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M	2040	20.8 ± 0.0	NS
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	794	20.8 ± 0.0	NS
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	1691	20.8 ± 0.0	NS
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3M	350	20.8 ± 0.0	NS
A	<i>Limnodromus griseus</i>	Short-billed Dowitcher				S3M	1298	20.8 ± 0.0	NS
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N	29	50.3 ± 0.0	NS
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	130	8.5 ± 7.0	NS
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	312	8.5 ± 7.0	NS
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B,S4S5M	318	1.6 ± 7.0	NS
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B,S4S5M	405	8.5 ± 7.0	NS
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B,S5M	899	1.6 ± 7.0	NS
A	<i>Leiothlypis peregrina</i>	Tennessee Warbler				S3S4B,S5M	383	10.7 ± 7.0	NS
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4B,S5M	86	21.3 ± 7.0	NS
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3S4B,S5M,S5N	346	21.3 ± 7.0	NS
A	<i>Calidris maritima</i>	Purple Sandpiper				S3S4N	231	29.1 ± 10.0	NS
A	<i>Lanius borealis</i>	Northern Shrike				S3S4N	36	32.5 ± 0.0	NS
A	<i>Morus bassanus</i>	Northern Gannet				SHB	70	25.0 ± 0.0	NS
A	<i>Aythya americana</i>	Redhead				SHB	5	53.6 ± 0.0	NS
A	<i>Leucophaeus atricilla</i>	Laughing Gull				SHB	11	25.0 ± 0.0	NS
A	<i>Progne subis</i>	Purple Martin				SHB	6	60.0 ± 7.0	NS
A	<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N,S5M	34	32.9 ± 0.0	NS
I	<i>Bombus bohemicus</i>	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	32	31.3 ± 5.0	NS
I	<i>Epeoloides pilosulus</i>	Macropis Cuckoo Bee	Endangered	Endangered	Endangered	S1	2	69.3 ± 5.0	NS
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	1364	1.8 ± 0.0	NS
I	<i>Danaus plexippus plexippus</i>	Monarch	Endangered	Special Concern		S2?B,S3M	3	22.3 ± 0.0	NS
I	<i>Barnea truncata</i>	Atlantic Mud-piddock	Threatened	Threatened		S1	10	36.0 ± 0.0	NS
I	<i>Bombus suckleyi</i>	Suckley's Cuckoo Bumble Bee	Threatened			SH	4	38.6 ± 5.0	NS
I	<i>Alasmodonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S3	5	51.2 ± 0.0	NS
I	<i>Bombus terricola</i>	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	215	8.9 ± 0.0	NS
I	<i>Coccinella transversoguttata richardsoni</i>	Transverse Lady Beetle	Special Concern		Endangered	SH	4	22.8 ± 2.0	NS
I	<i>Gomphurus ventricosus</i>	Skillet Clubtail	Special Concern	Endangered		SH	2	28.5 ± 1.0	NS
I	<i>Cicindela formosa</i>	Big Sand Tiger Beetle				S1	1	34.6 ± 1.0	NS
I	<i>Erora laeta</i>	Early Hairstreak				S1	1	49.2 ± 1.0	NS
I	<i>Ophiogomphus anomalus</i>	Extra-Striped Snaketail				S1	8	79.8 ± 0.0	NS
I	<i>Pachydiplax longipennis</i>	Blue Dasher				S1	28	14.8 ± 0.0	NS
I	<i>Atlanticoncha ochracea</i>	Tidewater Mucket				S1	10	78.0 ± 1.0	NS
I	<i>Polygonia comma</i>	Eastern Comma				S1?	21	27.6 ± 0.0	NS
I	<i>Polygonia satyrus</i>	Satyr Comma				S1?	7	19.3 ± 2.0	NS
I	<i>Boloria chariclea</i>	Arctic Fritillary				S1S2	2	63.8 ± 2.0	NS
I	<i>Somatochlora brevicincta</i>	Quebec Emerald				S1S2	2	71.5 ± 0.0	NS
I	<i>Tharsalea dospassosi</i>	Maritime Copper				S2	6	52.1 ± 5.0	NS
I	<i>Satyrrium acadica</i>	Acadian Hairstreak				S2	5	85.0 ± 2.0	NS
I	<i>Coenagrion resolutum</i>	Taiga Bluet				S2	3	48.2 ± 1.0	NS
I	<i>Margaritifera margaritifera</i>	Eastern Pearlshell				S2	82	51.2 ± 0.0	NS
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S2?B	7	53.2 ± 1.0	NS
I	<i>Nymphalis l-album</i>	Compton Tortoiseshell				S2S3	22	25.5 ± 0.0	NS
I	<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2S3	22	42.1 ± 1.0	NS
I	<i>Somatochlora kennedyi</i>	Kennedy's Emerald				S2S3	8	28.5 ± 1.0	NS
I	<i>Somatochlora williamsoni</i>	Williamson's Emerald				S2S3	1	53.6 ± 0.0	NS
I	<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S2S3	4	82.7 ± 0.0	NS
I	<i>Enallagma geminatum</i>	Skimming Bluet				S2S3	4	50.0 ± 0.0	NS
I	<i>Stylurus scudderii</i>	Zebra Clubtail				S2S3	28	41.1 ± 0.0	NS

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	<i>Alasmidonta undulata</i>	Triangle Floater				S2S3	32	41.8 ± 1.0	NS
	<i>Strophiona nitens</i>	Chestnut Bark Long-horned Beetle				S3	4	40.8 ± 0.0	NS
	<i>Lebia ornata</i>	Ornate Harp Ground Beetle				S3	1	64.2 ± 0.0	NS
	<i>Carabus serratus</i>	Serrated Ground Beetle				S3	1	86.7 ± 0.0	NS
	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3	3	47.7 ± 0.0	NS
	<i>Disonycha pensylvanica</i>	Pennsylvania Flea Beetle				S3	1	31.8 ± 0.0	NS
	<i>Chrysochus auratus</i>	Dogbane Leaf Beetle				S3	2	74.3 ± 0.0	NS
	<i>Naemia seriata</i>	Seaside Lady Beetle				S3	36	31.1 ± 0.0	NS
	<i>Pachyrhinus elegans</i>	Elegant Broad-nosed Weevil				S3	1	78.6 ± 0.0	NS
	<i>Elateroides lugubris</i>	Sapwood Ship-timber Beetle				S3	1	48.5 ± 0.0	NS
	<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle				S3	19	29.2 ± 0.0	NS
	<i>Myzia pullata</i>	Streaked Lady Beetle				S3	5	38.7 ± 0.0	NS
	<i>Monochamus marmorator</i>	Balsam Fir Sawyer				S3	1	48.4 ± 0.0	NS
	<i>Trachysida aspera</i>	Rough Flower Longhorn Beetle				S3	1	53.1 ± 0.0	NS
	<i>Dicerca tenebrosa</i>	Dark Jewel Beetle				S3	2	84.9 ± 0.0	NS
	<i>Dicerca tuberculata</i>	Swollen Jewel Beetle				S3	1	34.2 ± 9.0	NS
	<i>Astylopsis sexguttata</i>	Six-speckled Long-horned Beetle				S3	2	46.5 ± 0.0	NS
	<i>Satyrrium calanus</i>	Banded Hairstreak				S3	76	32.7 ± 0.0	NS
	<i>Callophrys lanoraieensis</i>	Bog Elfin				S3	21	21.8 ± 0.0	NS
	<i>Strymon melinus</i>	Gray Hairstreak				S3	18	21.8 ± 0.0	NS
	<i>Ophiogomphus aspersus</i>	Brook Snaketail				S3	5	23.0 ± 0.0	NS
	<i>Ophiogomphus mainensis</i>	Maine Snaketail				S3	12	30.2 ± 0.0	NS
	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail				S3	32	23.0 ± 0.0	NS
	<i>Epitheca princeps</i>	Prince Baskettail				S3	18	41.6 ± 1.0	NS
	<i>Somatochlora forcipata</i>	Forcinate Emerald				S3	7	30.1 ± 1.0	NS
	<i>Enallagma vernale</i>	Vernal Bluet				S3	5	22.9 ± 1.0	NS
	<i>Polygonia interrogationis</i>	Question Mark				S3B	213	23.5 ± 0.0	NS
	<i>Lepturoopsis biforis</i>	Two-spotted Long-horned Beetle				S3S4	1	23.2 ± 0.0	NS
	<i>Cecropia pylades</i>	Northern Cloudywing				S3S4	5	82.0 ± 2.0	NS
	<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S3S4	28	10.9 ± 5.0	NS
	<i>Cupido comyntas</i>	Eastern Tailed Blue				S3S4	40	3.9 ± 3.0	NS
	<i>Argynnis aphrodite</i>	Aphrodite Fritillary				S3S4	51	27.5 ± 1.0	NS
	<i>Polygonia faunus</i>	Green Comma				S3S4	16	31.7 ± 2.0	NS
	<i>Oeneis jutta</i>	Jutta Arctic				S3S4	26	28.6 ± 2.0	NS
	<i>Aeshna clepsydra</i>	Mottled Darner				S3S4	33	39.9 ± 1.0	NS
	<i>Aeshna constricta</i>	Lance-Tipped Darner				S3S4	26	22.2 ± 1.0	NS
	<i>Boyeria grafiana</i>	Ocellated Darner				S3S4	15	14.8 ± 0.0	NS
	<i>Gomphaeschna furcillata</i>	Harlequin Darner				S3S4	48	24.4 ± 0.0	NS
	<i>Somatochlora franklini</i>	Delicate Emerald				S3S4	6	28.5 ± 1.0	NS
	<i>Erythrodiplax berenice</i>	Seaside Dragonlet				S3S4	7	41.0 ± 0.0	NS
	<i>Nannothemis bella</i>	Elfin Skimmer				S3S4	36	22.8 ± 0.0	NS
	<i>Sympetrum danae</i>	Black Meadowhawk				S3S4	1	91.8 ± 0.0	NS
	<i>Enallagma vesperum</i>	Vesper Bluet				S3S4	19	39.0 ± 0.0	NS
	<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3S4	1	94.2 ± 1.0	NS
	<i>Sphaerophoria pyrrhina</i>	Violaceous Globetail				SH	1	94.8 ± 5.0	NS
	<i>Icaricia saepiolus</i>	Greenish Blue				SH	1	49.3 ± 2.0	NS
	<i>Chlosyne nycteis</i>	Silvery Checkerspot				SH	4	98.4 ± 2.0	NS
	<i>Polygonia gracilis</i>	Hoary Comma				SH	1	96.0 ± 2.0	NS
	<i>Eristalis brousi</i>	Hourglass Drone Fly				SX	1	84.8 ± 0.0	NS
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1	14	32.7 ± 0.0	NS
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	96	21.7 ± 0.0	NS
N	<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1	145	12.5 ± 0.0	NS
N	<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3	275	9.9 ± 0.0	NS

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N	<i>Pannaria lurida</i> ssp. <i>russellii</i>	Wrinkled Shingle Lichen	Threatened	Threatened		S2S3	1	92.9 ± 0.0	NS
N	<i>Anzia colpododes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3	140	14.9 ± 0.0	NS
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S3	54	16.6 ± 6.0	NS
N	<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen	Threatened			S3	112	42.9 ± 0.0	NS
N	<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	206	14.4 ± 0.0	NS
N	<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4	28	13.3 ± 0.0	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3	41	30.7 ± 0.0	NS
N	<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S3	19	19.9 ± 0.0	NS
N	<i>Aloina brevirostris</i>	Short-Beaked Rigid Screw Moss				S1	2	21.2 ± 2.0	NS
N	<i>Orthotrichum gymnostomum</i>	Aspen Bristle Moss				S1	1	55.6 ± 0.0	NS
N	<i>Orthotrichum pallens</i>	Pale Bristle Moss				S1	1	92.5 ± 0.0	NS
N	<i>Sematophyllum demissum</i>	a Moss				S1	2	47.3 ± 2.0	NS
N	<i>Cyrto-hyphnum minutulum</i>	Tiny Cedar Moss				S1	1	92.8 ± 0.0	NS
N	<i>Blennothallia crispa</i>	Crinkled Jelly Lichen				S1	1	45.0 ± 0.0	NS
N	<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen				S1	1	30.4 ± 5.0	NS
N	<i>Usnea perplexans</i>	Powdered Beard Lichen				S1	1	37.5 ± 0.0	NS
N	<i>Heterodermia leucomela</i>	Elegant Fringe Lichen				S1	1	99.8 ± 0.0	NS
N	<i>Scytinium dactylinum</i>	Brown-buttoned Jellyskin Lichen				S1	2	50.6 ± 0.0	NS
N	<i>Flavoparmelia baltimorensis</i>	Rock Greenshield Lichen				S1	1	96.8 ± 0.0	NS
N	<i>Lathagrium cristatum</i>	Fingered Jelly Lichen				S1	3	24.7 ± 0.0	NS
N	<i>Ephebe hispidula</i>	Dryside Rockshag Lichen				S1	1	78.9 ± 0.0	NS
N	<i>Ephebe perspinulosa</i>	Thread Lichen				S1	2	50.4 ± 1.0	NS
N	<i>Fuscopannaria praeatermissa</i>	Moss Shingles Lichen				S1	1	19.0 ± 0.0	NS
N	<i>Scytinium schraderi</i>	Wrinkled Jellyskin Lichen				S1	1	71.5 ± 0.0	NS
N	<i>Lichina confinis</i>	Marine Seaweed Lichen				S1	2	64.3 ± 1.0	NS
N	<i>Parmotrema perforatum</i>	Perforated Ruffle Lichen				S1	46	79.2 ± 0.0	NS
N	<i>Polychidium muscicola</i>	Eyed Mossthorns Woollybear Lichen				S1	3	62.2 ± 0.0	NS
N	<i>Pseudevernia consocians</i>	Common Antler Lichen				S1	1	56.4 ± 0.0	NS
N	<i>Spilonema revertens</i>	Rock Hairball Lichen				S1	4	85.0 ± 0.0	NS
N	<i>Sticta limbata</i>	Powdered Moon Lichen				S1	12	26.9 ± 0.0	NS
N	<i>Lathagrium fuscovirens</i>	Crumpled Rock Tarpaper Lichen				S1	1	85.9 ± 0.0	NS
N	<i>Dermatocarpon miniatum</i>	Common Stippleback Lichen				S1	1	68.1 ± 0.0	NS
N	<i>Peltigera lepidophora</i>	Scaly Pelt Lichen				S1	8	19.5 ± 0.0	NS
N	<i>Bryoria nitidula</i>	Tundra Horsehair Lichen				S1	2	64.5 ± 0.0	NS
N	<i>Hypogymnia hultenii</i>	Powdered Honeycomb Lichen				S1	7	39.5 ± 0.0	NS
N	<i>Calypogeia neogaea</i>	Common Pouchwort				S1?	2	50.5 ± 0.0	NS
N	<i>Jubula pennsylvanica</i>	a liverwort				S1?	1	21.6 ± 0.0	NS
N	<i>Aloina rigida</i>	Aloe-Like Rigid Screw Moss				S1?	3	20.7 ± 0.0	NS
N	<i>Imbricium muehlenbeckii</i>	Muehlenbeck's Bryum Moss				S1?	2	12.7 ± 0.0	NS
N	<i>Cirriphyllum piliferum</i>	Hair-pointed Moss				S1?	1	71.0 ± 0.0	NS
N	<i>Conardia compacta</i>	Coast Creeping Moss				S1?	1	42.6 ± 2.0	NS
N	<i>Tortula obtusifolia</i>	a Moss				S1?	2	95.2 ± 1.0	NS
N	<i>Didymodon tophaceus</i>	Olive Beard Moss				S1?	2	44.8 ± 4.0	NS
N	<i>Grimmia anodon</i>	Toothless Grimmia Moss				S1?	2	95.3 ± 3.0	NS
N	<i>Homomallium adnatum</i>	Adnate Hairy-gray Moss				S1?	2	40.2 ± 0.0	NS
N	<i>Paludella squarrosa</i>	Tufted Fen Moss				S1?	3	28.7 ± 0.0	NS
N	<i>Physcomitrium immersum</i>	a Moss				S1?	8	40.2 ± 0.0	NS
N	<i>Schistostega pennata</i>	Luminous Moss				S1?	2	35.7 ± 0.0	NS
N	<i>Trichodon cylindricus</i>	Cylindric Hairy-teeth Moss				S1?	3	46.2 ± 0.0	NS
N	<i>Plagiomnium ellipticum</i>	Marsh Leafy Moss				S1?	1	61.9 ± 0.0	NS
N	<i>Enchylium limosum</i>	Lime-loving Tarpaper Lichen				S1?	2	44.8 ± 4.0	NS

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N	<i>Euopsis granatina</i>	Lesser Rockbud Lichen			S1?		1	81.9 ± 1.0	NS
N	<i>Scytinium intermedium</i>	Forty-five Jellyskin Lichen			S1?		1	44.8 ± 4.0	NS
N	<i>Melanelia culbersonii</i>	Appalachian Camouflage Lichen			S1?		1	31.0 ± 0.0	NS
N	<i>Porella pinnata</i>	Pinnate Scalewort			S1S2		2	42.5 ± 0.0	NS
N	<i>Reboulia hemisphaerica</i>	Purple-margined Liverwort			S1S2		2	68.6 ± 0.0	NS
N	<i>Arrhenopterum heterostichum</i>	One-sided Groove Moss			S1S2		3	21.2 ± 2.0	NS
N	<i>Brachythecium turgidum</i>	Thick Ragged Moss			S1S2		3	58.5 ± 3.0	NS
N	<i>Didymodon rigidulus</i>	Rigid Screw Moss			S1S2		2	90.3 ± 0.0	NS
N	<i>Hypnum pratense</i>	Meadow Plait Moss			S1S2		1	43.1 ± 3.0	NS
N	<i>Mnium thomsonii</i>	Thomson's Leafy Moss			S1S2		1	21.0 ± 2.0	NS
N	<i>Tortula acaulon</i>	Cuspidate Earth Moss			S1S2		7	44.7 ± 0.0	NS
N	<i>Plagiothecium latebricola</i>	Alder Silk Moss			S1S2		2	28.2 ± 5.0	NS
N	<i>Platydictya confervoides</i>	a Moss			S1S2		1	19.4 ± 0.0	NS
N	<i>Sematophyllum marylandicum</i>	a Moss			S1S2		3	47.2 ± 3.0	NS
N	<i>Timmia megapolitana</i>	Metropolitan Timmia Moss			S1S2		3	64.4 ± 1.0	NS
N	<i>Tortula mucronifolia</i>	Mucronate Screw Moss			S1S2		2	52.0 ± 3.0	NS
N	<i>Syntrichia papillosa</i>	a Moss			S1S2		2	56.8 ± 0.0	NS
N	<i>Pseudotaxiphyllum distichaceum</i>	a Moss			S1S2		2	81.8 ± 4.0	NS
N	<i>Haplocladium microphyllum</i>	Tiny-leaved Haplocladium Moss			S1S2		2	78.8 ± 5.0	NS
N	<i>Rhynchostegium serrulatum</i>	Dark Beaked Moss			S1S2		1	23.1 ± 2.0	NS
N	<i>Enchylium bachmanianum</i>	Bachman's Jelly Lichen			S1S2		2	24.7 ± 0.0	NS
N	<i>Sclerophora amabilis</i>	Collared Glass-whiskers Lichen			S1S2		3	87.3 ± 0.0	NS
N	<i>Peltigera ponojensis</i>	Pale-bellied Pelt Lichen			S1S2		3	95.2 ± 0.0	NS
N	<i>Pilophorus cereolus</i>	Powdered Matchstick Lichen			S1S2		1	71.5 ± 3.0	NS
N	<i>Rhizoplaca subdiscrepans</i>	Scattered Rock-posy Lichen			S1S2		2	32.1 ± 1.0	NS
N	<i>Parmotrema reticulatum</i>	Netted Ruffle Lichen			S1S2		11	53.6 ± 0.0	NS
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen			S1S2		4	39.6 ± 0.0	NS
N	<i>Chaenotheca hygrophila</i>	a lichen			S1S3		9	78.1 ± 0.0	NS
N	<i>Umbilicaria polyrhiza</i>	Ballpoint Rocktripe Lichen			S1S3		1	71.1 ± 0.0	NS
N	<i>Lecanora polytropa</i>	a lichen			S1S3		3	49.5 ± 1.0	NS
N	<i>Acarospora sinopica</i>	a cracked lichen			S1S3		2	49.7 ± 0.0	NS
N	<i>Heterodermia galactophylla</i>	Branching Fringe Lichen			S1S3		1	32.7 ± 0.0	NS
N	<i>Xylopsora friesii</i>	a Lichen			S1S3		2	52.7 ± 0.0	NS
N	<i>Peltigera neckeri</i>	Black-saddle Pelt Lichen			S1S3		1	91.1 ± 0.0	NS
N	<i>Usnea fragilesceus</i>	Inflationary Beard Lichen			S1S3		1	78.8 ± 0.0	NS
N	<i>Usnea chaetophora</i>	Articulated Beard Lichen			S1S3		2	79.8 ± 0.0	NS
N	<i>Stereocaulon grande</i>	Grand Foam Lichen			S1S3		1	93.0 ± 0.0	NS
N	<i>Stereocaulon intermedium</i>	Pacific Brain Foam Lichen			S1S3		7	44.5 ± 0.0	NS
N	<i>Anacamptodon splachnoides</i>	a Moss			S2		5	50.9 ± 30.0	NS
N	<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss			S2		4	50.6 ± 3.0	NS
N	<i>Sphagnum subnitens</i>	Lustrous Peat Moss			S2		4	98.0 ± 0.0	NS
N	<i>Usnea flavocardia</i>	Blood-splattered Beard Lichen			S2		1	39.2 ± 4.0	NS
N	<i>Cystocoleus ebeneus</i>	Rockgossamer Lichen			S2		6	42.6 ± 0.0	NS
N	<i>Hypotrachyna catawbiensis</i>	Powder-tipped Antler Lichen			S2		25	31.2 ± 0.0	NS
N	<i>Scytinium imbricatum</i>	Scaly Jellyskin Lichen			S2		2	52.5 ± 4.0	NS
N	<i>Nephroma arcticum</i>	Arctic Kidney Lichen			S2		2	59.5 ± 1.0	NS
N	<i>Nephroma resupinatum</i>	a lichen			S2		12	13.2 ± 0.0	NS
N	<i>Placynthium flabelliforme</i>	Scaly Ink Lichen			S2		2	62.2 ± 0.0	NS
N	<i>Cololejeunea biddlecomiae</i>	Biddlecome's Pouncewort			S2?		1	59.3 ± 0.0	NS
N	<i>Moerckia flotoviana</i>	Flotow's Ruffwort			S2?		1	45.6 ± 0.0	NS
N	<i>Riccardia multifida</i>	Delicate Germanderwort			S2?		4	41.9 ± 0.0	NS

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N	<i>Anomodon viticulosus</i>	a Moss				S2?	1	43.0 ± 0.0	NS
N	<i>Weissia muhlenbergiana</i>	a Moss				S2?	6	19.9 ± 5.0	NS
N	<i>Atrichum angustatum</i>	Lesser Smoothcap Moss				S2?	8	78.2 ± 5.0	NS
N	<i>Ptychostomum pendulum</i>	Drooping Bryum				S2?	1	21.2 ± 2.0	NS
N	<i>Drepanocladus polygamus</i>	Polygamous Hook Moss				S2?	9	42.9 ± 2.0	NS
N	<i>Pseudocampyllum radicale</i>	Long-stalked Fine Wet Moss				S2?	3	43.1 ± 3.0	NS
N	<i>Climacium americanum</i>	American Tree Moss				S2?	10	66.2 ± 0.0	NS
N	<i>Dicranum condensatum</i>	Condensed Broom Moss				S2?	4	34.9 ± 0.0	NS
N	<i>Ditrichum rhynchostegium</i>	a Moss				S2?	6	42.9 ± 1.0	NS
N	<i>Fissidens bushii</i>	Bush's Pocket Moss				S2?	13	68.9 ± 0.0	NS
N	<i>Fontinalis hypnoides</i>	a moss				S2?	1	93.3 ± 0.0	NS
N	<i>Fontinalis sullivantii</i>	Sullivant's Water Moss				S2?	4	79.7 ± 0.0	NS
N	<i>Grimmia olneyi</i>	a Moss				S2?	10	90.2 ± 0.0	NS
N	<i>Grimmia anomala</i>	Mountain Forest Grimmia				S2?	1	30.3 ± 1.0	NS
N	<i>Hygrohypnum bestii</i>	Best's Brook Moss				S2?	1	72.9 ± 0.0	NS
N	<i>Kiaeria starkei</i>	Starke's Fork Moss				S2?	1	90.2 ± 10.0	NS
N	<i>Orthotrichum anomalum</i>	Anomalous Bristle Moss				S2?	3	15.8 ± 2.0	NS
N	<i>Philonotis marchica</i>	a Moss				S2?	1	90.3 ± 0.0	NS
N	<i>Physcomitrium collenchymatum</i>	a Moss				S2?	1	58.6 ± 0.0	NS
N	<i>Platydictya jungermannioides</i>	False Willow Moss				S2?	1	71.0 ± 0.0	NS
N	<i>Rauvella scita</i>	Smaller Fern Moss				S2?	16	90.3 ± 0.0	NS
N	<i>Cyrtomnium hymenophylloides</i>	Short-pointed Lantern Moss				S2?	1	52.6 ± 5.0	NS
N	<i>Platylomella lescurii</i>	a Moss				S2?	11	20.1 ± 1.0	NS
N	<i>Phylliscum demangeonii</i>	Black Rock-wafer Lichen				S2?	6	7.4 ± 0.0	NS
N	<i>Oxyrrhynchium hians</i>	Light Beaked Moss				S2S3	6	22.9 ± 0.0	NS
N	<i>Platydictya subtilis</i>	Bark Willow Moss				S2S3	5	56.3 ± 0.0	NS
N	<i>Plagiomnium rostratum</i>	Long-beaked Leafy Moss				S2S3	5	57.7 ± 2.0	NS
N	<i>Scorpidium revolvens</i>	Limprichtia Moss				S2S3	3	28.8 ± 0.0	NS
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S2S3	31	19.9 ± 0.0	NS
N	<i>Moelleropsis nebulosa ssp. frullaniae</i>	Blue-gray Moss Shingle Lichen				S2S3	4	69.6 ± 0.0	NS
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen				S2S3	5	65.8 ± 5.0	NS
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2S3	78	10.0 ± 0.0	NS
N	<i>Usnea ceratina</i>	Warty Beard Lichen				S2S3	4	56.3 ± 0.0	NS
N	<i>Usnea rubicunda</i>	Red Beard Lichen				S2S3	9	26.1 ± 0.0	NS
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3	25	7.4 ± 2.0	NS
N	<i>Usnocetraria oakesiana</i>	Yellow Band Lichen				S2S3	18	9.9 ± 0.0	NS
N	<i>Cladonia incassata</i>	Powder-foot British Soldiers Lichen				S2S3	2	94.5 ± 3.0	NS
N	<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup				S2S3	5	7.8 ± 6.0	NS
N	<i>Cladonia parasitica</i>	Fence-rail Lichen				S2S3	4	36.2 ± 0.0	NS
N	<i>Chaenotheca gracilentia</i>	a lichen				S2S3	1	54.1 ± 0.0	NS
N	<i>Scytinium tenuissimum</i>	Birdnest Jellyskin Lichen				S2S3	8	19.5 ± 0.0	NS
N	<i>Melanohalea septentrionalis</i>	Northern Camouflage Lichen				S2S3	1	37.8 ± 0.0	NS
N	<i>Myelochroa aurulenta</i>	Powdery Axil-bristle Lichen				S2S3	6	30.4 ± 2.0	NS
N	<i>Parmelia fertilis</i>	Fertile Shield Lichen				S2S3	7	14.9 ± 0.0	NS
N	<i>Hypotrachyna minarum</i>	Hairless-spined Shield Lichen				S2S3	7	54.1 ± 0.0	NS
N	<i>Parmeliopsis ambigua</i>	Green Starburst Lichen				S2S3	2	30.6 ± 2.0	NS
N	<i>Racodium rupestre</i>	Rockhair Lichen				S2S3	4	38.6 ± 1.0	NS
N	<i>Umbilicaria polyphylla</i>	Petalled Rocktripe Lichen				S2S3	2	30.6 ± 2.0	NS
N	<i>Usnea cavernosa</i>	Pitted Beard Lichen				S2S3	4	34.6 ± 0.0	NS
N	<i>Usnea mutabilis</i>	Bloody Beard Lichen				S2S3	1	37.4 ± 0.0	NS
N	<i>Fuscopannaria soorediata</i>	a Lichen				S2S3	8	33.0 ± 0.0	NS

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N	<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen				S2S3	3	49.6 ± 0.0	NS
N	<i>Physcia subtilis</i>	Slender Rosette Lichen				S2S3	2	53.7 ± 0.0	NS
N	<i>Dimelaena oreina</i>	Golden Moonglow Lichen				S2S3	3	58.8 ± 0.0	NS
N	<i>Hypotrachyna revoluta</i>	Granulating Loop Lichen				S2S3	1	80.4 ± 2.0	NS
N	<i>Cetraria arenaria</i>	Sand-loving Icelandmoss Lichen				S2S3	33	49.1 ± 0.0	NS
N	<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen				S2S3	3	55.6 ± 0.0	NS
N	<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen				S2S3	3	5.4 ± 4.0	NS
N	<i>Cladonia phyllophora</i>	Felt Lichen				S2S3	2	39.9 ± 4.0	NS
N	<i>Hypotrachyna afrorevoluta</i>	Pustulate Revolute Loop Lichen				S2S3	3	79.8 ± 1.0	NS
N	<i>Usnea flammea</i>	Coastal Bushy Beard Lichen				S2S3	2	64.4 ± 1.0	NS
N	<i>Ephemerum serratum</i>	a Moss				S3	6	19.9 ± 5.0	NS
N	<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss				S3	17	14.3 ± 0.0	NS
N	<i>Anomodon tristis</i>	a Moss				S3	15	50.3 ± 0.0	NS
N	<i>Sphagnum contortum</i>	Twisted Peat Moss				S3	6	49.9 ± 0.0	NS
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S3	3	63.2 ± 0.0	NS
N	<i>Rostania occultata</i>	Crusted Tarpaper Lichen				S3	9	48.2 ± 0.0	NS
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	54	9.8 ± 0.0	NS
N	<i>Solorina saccata</i>	Woodland Owl Lichen				S3	11	24.6 ± 0.0	NS
N	<i>Fuscopannaria ahlneri</i>	Corrugated Shingles Lichen				S3	68	14.9 ± 0.0	NS
N	<i>Scytinium lichenoides</i>	Tattered Jellyskin Lichen				S3	34	19.4 ± 0.0	NS
N	<i>Leptogium milligranum</i>	Stretched Jellyskin Lichen				S3	29	25.6 ± 0.0	NS
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3	9	35.4 ± 0.0	NS
N	<i>Placynthium nigrum</i>	Common Ink Lichen				S3	1	95.7 ± 3.0	NS
N	<i>Punctelia appalachensis</i>	Appalachian Speckleback Lichen				S3	152	49.2 ± 0.0	NS
N	<i>Viridothelium virens</i>	a lichen				S3	4	29.4 ± 0.0	NS
N	<i>Ephebe lanata</i>	Waterside Rockshag Lichen				S3	6	12.7 ± 0.0	NS
N	<i>Phaeophyscia adiastrata</i>	Powder-tipped Shadow Lichen				S3	21	53.1 ± 0.0	NS
N	<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3	12	26.5 ± 1.0	NS
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S3	10	23.6 ± 2.0	NS
N	<i>Metzgeria conjugata</i>	Rock Veilwort				S3?	3	59.6 ± 0.0	NS
N	<i>Barbula convoluta</i>	Lesser Bird's-claw Beard Moss				S3?	4	19.4 ± 0.0	NS
N	<i>Calliergon giganteum</i>	Giant Spear Moss				S3?	3	24.6 ± 3.0	NS
N	<i>Drummondia prorepens</i>	a Moss				S3?	9	11.2 ± 5.0	NS
N	<i>Elodium blandowii</i>	Blandow's Bog Moss				S3?	6	19.8 ± 3.0	NS
N	<i>Mnium stellare</i>	Star Leafy Moss				S3?	3	22.8 ± 0.0	NS
N	<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?	5	71.7 ± 0.0	NS
N	<i>Cladonia stygia</i>	Black-footed Reindeer Lichen				S3?	9	42.4 ± 0.0	NS
N	<i>Anomodon rugelii</i>	Rugel's Anomodon Moss				S3S4	10	50.3 ± 0.0	NS
N	<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S3S4	9	21.9 ± 3.0	NS
N	<i>Dicranum leioneuron</i>	a Dicranum Moss				S3S4	1	44.3 ± 0.0	NS
N	<i>Encalypta ciliata</i>	Fringed Extinguisher Moss				S3S4	2	52.0 ± 3.0	NS
N	<i>Encalypta procera</i>	Slender Extinguisher Moss				S3S4	1	79.5 ± 0.0	NS
N	<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4	1	85.0 ± 0.0	NS
N	<i>Splachnum ampullaceum</i>	Cruet Dung Moss				S3S4	3	81.3 ± 0.0	NS
N	<i>Thamnobryum alleghaniense</i>	a Moss				S3S4	21	29.1 ± 0.0	NS
N	<i>Tomentypnum nitens</i>	Golden Fuzzy Fen Moss				S3S4	3	28.8 ± 0.0	NS
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4	3	30.3 ± 1.0	NS
N	<i>Hylacomiastrum pyrenaicum</i>	a Feather Moss				S3S4	5	52.8 ± 0.0	NS
N	<i>Bryoria pseudofuscescens</i>	Mountain Horsehair Lichen				S3S4	11	31.2 ± 5.0	NS

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N	<i>Enchylium tenax</i>	Soil Tarpaper Lichen				S3S4	11	24.7 ± 0.0	NS
N	<i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3S4	68	21.3 ± 0.0	NS
N	<i>Arctoparmelia incurva</i>	Finger Ring Lichen				S3S4	89	31.0 ± 0.0	NS
N	<i>Scytinium teretiusculum</i>	Curly Jellyskin Lichen				S3S4	27	20.5 ± 0.0	NS
N	<i>Leptogium acadense</i>	Acadian Jellyskin Lichen				S3S4	47	8.2 ± 0.0	NS
N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	32	5.1 ± 0.0	NS
N	<i>Felipes leucopellaeus</i>	a lichen				S3S4	4	68.8 ± 0.0	NS
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	4	9.1 ± 0.0	NS
N	<i>Vahlia leucophaea</i>	Shelter Shingle Lichen				S3S4	19	51.0 ± 0.0	NS
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3S4	96	14.7 ± 0.0	NS
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	186	6.3 ± 0.0	NS
N	<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4	6	37.5 ± 0.0	NS
N	<i>Parmeliopsis hyperopta</i>	Gray Starburst Lichen				S3S4	3	79.0 ± 0.0	NS
N	<i>Parmotrema perlatum</i>	Powdered Ruffle Lichen				S3S4	55	49.0 ± 0.0	NS
N	<i>Peltigera hymenina</i>	Cloudy Pelt Lichen				S3S4	2	64.8 ± 2.0	NS
N	<i>Sphaerophorus fragilis</i>	Fragile Coral Lichen				S3S4	9	43.1 ± 3.0	NS
N	<i>Sclerophora peronella</i>	Frosted Glass-whiskers Lichen				S3S4	20	32.0 ± 0.0	NS
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4	216	7.4 ± 0.0	NS
N	<i>Physcia caesia</i>	Blue-gray Rosette Lichen				S3S4	3	42.9 ± 0.0	NS
N	<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4	7	49.7 ± 0.0	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	248	2.3 ± 0.0	NS
N	<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4	42	10.2 ± 2.0	NS
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4	131	9.8 ± 0.0	NS
P	<i>Rhynchospora macrostachya</i>	Tall Beakrush	Endangered	Endangered	Endangered	S1	57	68.6 ± 0.0	NS
P	<i>Clethra alnifolia</i>	Coast Pepper-Bush	Endangered	Threatened	Vulnerable	S2	178	34.9 ± 0.0	NS
P	<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2	1079	14.9 ± 0.0	NS
P	<i>Hydrocotyle umbellata</i>	Water Pennywort	Special Concern	Special Concern	Endangered	S2	85	93.0 ± 0.0	NS
P	<i>Eleocharis tuberculosa</i>	Tuberclad Spike-rush	Special Concern	Special Concern	Vulnerable	S2	1	90.7 ± 0.0	NS
P	<i>Lachnanthes caroliniana</i>	Redroot	Special Concern	Special Concern	Vulnerable	S2	1483	67.9 ± 0.0	NS
P	<i>Lophiola aurea</i>	Goldencrest	Special Concern	Special Concern	Vulnerable	S2	803	59.4 ± 0.0	NS
P	<i>Lilaeopsis chinensis</i>	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S3	154	53.7 ± 1.0	NS
P	<i>Scirpus longii</i>	Long's Bulrush	Special Concern		Vulnerable	S3	504	59.2 ± 0.0	NS
P	<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3	18	78.2 ± 0.0	NS
P	<i>Floerkea proserpinacoides</i>	False Mermaidweed	Not At Risk			S2S3	38	40.7 ± 1.0	NS
P	<i>Acer saccharinum</i>	Silver Maple				S1	12	33.4 ± 0.0	NS
P	<i>Toxicodendron vernix</i>	Poison Sumac				S1	42	87.2 ± 0.0	NS
P	<i>Osmorhiza depauperata</i>	Blunt Sweet Cicely				S1	1	32.4 ± 5.0	NS
P	<i>Antennaria rosea ssp. arida</i>	Rosy Pussytoes				S1	1	68.9 ± 0.0	NS
P	<i>Andersonglossum boreale</i>	Northern Wild Comfrey				S1	5	23.1 ± 1.0	NS
P	<i>Turritis glabra</i>	Tower Mustard				S1	1	32.3 ± 0.0	NS
P	<i>Lobelia spicata</i>	Pale-Spiked Lobelia				S1	8	42.6 ± 7.0	NS
P	<i>Silene antirrhina</i>	Sleepy Catchfly				S1	5	57.6 ± 0.0	NS
P	<i>Stellaria crassifolia</i>	Fleshy Stitchwort				S1	1	96.5 ± 2.0	NS
P	<i>Astragalus robbinsii var. minor</i>	Robbins' Milkvetch				S1	32	68.8 ± 0.0	NS
P	<i>Ribes americanum</i>	Wild Black Currant				S1	4	20.2 ± 1.0	NS
P	<i>Trichostema dichotomum</i>	Forked Bluecurls				S1	9	64.9 ± 0.0	NS
P	<i>Fraxinus pennsylvanica</i>	Red Ash				S1	12	27.7 ± 2.0	NS
P	<i>Polygonum achoreum</i>	Leathery Knotweed				S1	1	89.4 ± 10.0	NS
P	<i>Persicaria careyi</i>	Carey's Smartweed				S1	1	87.5 ± 3.0	NS
P	<i>Phytolacca americana</i>	Common Pokeweed				S1	4	39.2 ± 0.0	NS
P	<i>Podostemum ceratophyllum</i>	Horn-leaved Riverweed				S1	4	50.1 ± 0.0	NS
P	<i>Montia fontana</i>	Water Blinks				S1	3	52.7 ± 1.0	NS
P	<i>Lysimachia minima</i>	Chaffweed				S1	1	92.4 ± 0.0	NS
P	<i>Lysimachia quadrifolia</i>	Whorled Yellow Loosestrife				S1	1	26.9 ± 0.0	NS
P	<i>Amelanchier nantucketensis</i>	Nantucket Serviceberry				S1	1	68.2 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Salix myrtilifolia</i>	Blueberry Willow				S1	1	83.6 ± 0.0	NS
P	<i>Salix serissima</i>	Autumn Willow				S1	2	83.6 ± 0.0	NS
P	<i>Agalinis tenuifolia</i>	Slender Agalinis				S1	1	94.7 ± 0.0	NS
P	<i>Scrophularia lanceolata</i>	Lance-leaved Figwort				S1	2	54.4 ± 1.0	NS
P	<i>Carex digitalis</i>	Slender Wood Sedge				S1	5	74.8 ± 0.0	NS
P	<i>Carex laxiflora</i>	Loose-Flowered Sedge				S1	5	44.9 ± 7.0	NS
P	<i>Carex ormostachya</i>	Necklace Spike Sedge				S1	5	44.3 ± 5.0	NS
P	<i>Carex plantaginea</i>	Plantain-Leaved Sedge				S1	1	99.0 ± 0.0	NS
P	<i>Carex prairea</i>	Prairie Sedge				S1	2	43.3 ± 1.0	NS
P	<i>Carex viridula</i> var. <i>saxillitoralis</i>	Greenish Sedge				S1	1	51.6 ± 0.0	NS
P	<i>Fimbristylis autumnalis</i>	Slender Fimbry				S1	3	95.4 ± 0.0	NS
P	<i>Scirpus atrovirens</i>	Dark-green Bulrush				S1	4	24.5 ± 0.0	NS
P	<i>Schoenoplectus torreyi</i>	Torrey's Bulrush				S1	8	61.7 ± 0.0	NS
P	<i>Iris prismatica</i>	Slender Blue Flag				S1	1	36.7 ± 100.0	NS
P	<i>Sisyrinchium fuscatum</i>	Coastal Plain Blue-eyed-grass				S1	3	50.0 ± 0.0	NS
P	<i>Juncus secundus</i>	Secund Rush				S1	3	42.6 ± 0.0	NS
P	<i>Juncus vaseyi</i>	Vasey Rush				S1	1	90.0 ± 0.0	NS
P	<i>Trillium grandiflorum</i>	White Trillium				S1	3	43.2 ± 1.0	NS
P	<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	North American White Adder's-mouth				S1	6	42.6 ± 10.0	NS
P	<i>Spiranthes casei</i> var. <i>casei</i>	Case's Ladies'-Tresses				S1	2	18.9 ± 0.0	NS
P	<i>Dichanthelium xanthophyllum</i>	Slender Panic Grass				S1	10	51.3 ± 0.0	NS
P	<i>Elymus hystrix</i>	Spreading Wild Rye				S1	11	24.9 ± 0.0	NS
P	<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale False Manna Grass				S1	2	57.7 ± 1.0	NS
P	<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S1	26	9.7 ± 1.0	NS
P	<i>Dryopteris goldieana</i>	Goldie's Woodfern				S1	1	43.4 ± 1.0	NS
P	<i>Equisetum palustre</i>	Marsh Horsetail				S1	1	36.7 ± 5.0	NS
P	<i>Botrychium lunaria</i>	Common Moonwort				S1	10	68.9 ± 0.0	NS
P	<i>Selaginella rupestris</i>	Rock Spikemoss				S1	1	23.1 ± 0.0	NS
P	<i>Solidago hispida</i>	Hairy Goldenrod				S1?	1	53.9 ± 7.0	NS
P	<i>Suaeda rolandii</i>	Roland's Sea-Blite				S1?	5	20.6 ± 0.0	NS
P	<i>Carex pensylvanica</i>	Pennsylvania Sedge				S1?	3	54.1 ± 0.0	NS
P	<i>Bolboschoenus robustus</i>	Sturdy Bulrush				S1?	1	99.5 ± 5.0	NS
P	<i>Juncus antheratus</i>	Greater Poverty Rush				S1?	1	67.2 ± 0.0	NS
P	<i>Allium schoenoprasum</i>	Wild Chives				S1?	2	46.1 ± 0.0	NS
P	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives				S1?	1	93.6 ± 7.0	NS
P	<i>Panicum dichotomiflorum</i> ssp. <i>puritanorum</i>	Spreading Panicgrass				S1?	5	81.9 ± 0.0	NS
P	<i>Huperzia selago</i>	Northern Firmoss				S1?	1	78.8 ± 1.0	NS
P	<i>Crocanthemum canadense</i>	Long-branched Frostweed			Endangered	S1S2	151	36.0 ± 1.0	NS
P	<i>Cypripedium arietinum</i>	Ram's-Head Lady's-Slipper			Endangered	S1S2	308	19.3 ± 0.0	NS
P	<i>Sanicula odorata</i>	Clustered Sanicle				S1S2	10	24.9 ± 0.0	NS
P	<i>Ageratina altissima</i>	White Snakeroot				S1S2	23	69.8 ± 0.0	NS
P	<i>Draba glabella</i>	Rock Whitlow-Grass				S1S2	6	52.8 ± 0.0	NS
P	<i>Proserpinaca intermedia</i>	Intermediate Mermaidweed				S1S2	5	33.7 ± 2.0	NS
P	<i>Anemone virginiana</i> var. <i>alba</i>	Virginia Anemone				S1S2	1	93.6 ± 7.0	NS
P	<i>Carex haydenii</i>	Hayden's Sedge				S1S2	4	38.3 ± 1.0	NS
P	<i>Platanthera huronensis</i>	Fragrant Green Orchid				S1S2	2	29.8 ± 10.0	NS
P	<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass				S1S2	3	81.5 ± 7.0	NS
P	<i>Euphrasia farlowii</i>	Farlow's Eyebright				S1S3	2	70.4 ± 0.0	NS
P	<i>Zizia aurea</i>	Golden Alexanders				S2	7	48.6 ± 0.0	NS

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P	<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's Pussytoes				S2	37	19.5 ± 0.0	NS
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S2	29	20.7 ± 7.0	NS
P	<i>Arabis pycnocarpa</i>	Cream-flowered Rockcress				S2	2	63.6 ± 0.0	NS
P	<i>Cardamine maxima</i>	Large Toothwort				S2	20	32.3 ± 0.0	NS
P	<i>Hudsonia ericoides</i>	Pinebarren Golden Heather				S2	314	23.4 ± 0.0	NS
P	<i>Desmodium canadense</i>	Canada Tick-trefoil				S2	10	29.0 ± 7.0	NS
P	<i>Hylodesmum glutinosum</i>	Large Tick-trefoil				S2	41	26.7 ± 0.0	NS
P	<i>Oxytropis campestris</i> var. <i>johannensis</i>	Field Locoweed				S2	27	68.9 ± 0.0	NS
P	<i>Conopholis americana</i>	American Cancer-root				S2	99	36.0 ± 1.0	NS
P	<i>Anemonastrum canadense</i>	Canada Anemone				S2	18	19.4 ± 0.0	NS
P	<i>Hepatica americana</i>	Round-lobed Hepatica				S2	81	15.8 ± 13.0	NS
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup				S2	26	44.5 ± 1.0	NS
P	<i>Galium boreale</i>	Northern Bedstraw				S2	10	42.6 ± 7.0	NS
P	<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop				S2	6	69.3 ± 0.0	NS
P	<i>Dirca palustris</i>	Eastern Leatherwood				S2	75	22.2 ± 1.0	NS
P	<i>Carex gynocrates</i>	Northern Bog Sedge				S2	2	83.7 ± 0.0	NS
P	<i>Carex livida</i>	Livid Sedge				S2	2	19.4 ± 10.0	NS
P	<i>Juncus greenei</i>	Greene's Rush				S2	5	24.1 ± 0.0	NS
P	<i>Allium tricoccum</i>	Wild Leek				S2	99	32.4 ± 0.0	NS
P	<i>Lilium canadense</i>	Canada Lily				S2	67	15.6 ± 7.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper				S2	27	19.3 ± 0.0	NS
P	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper				S2	13	18.1 ± 1.0	NS
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S2	55	25.5 ± 0.0	NS
P	<i>Platanthera flava</i> var. <i>flava</i>	Southern Rein Orchid				S2	19	32.9 ± 7.0	NS
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	28	29.9 ± 1.0	NS
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2	6	13.2 ± 1.0	NS
P	<i>Bromus latiglumis</i>	Broad-Glumed Brome				S2	3	96.4 ± 0.0	NS
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S2	42	40.2 ± 0.0	NS
P	<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S2	1	53.9 ± 7.0	NS
P	<i>Festuca subverticillata</i>	Nodding Fescue				S2	15	32.9 ± 7.0	NS
P	<i>Piptatheropsis pungens</i>	Slender Ricegrass				S2	11	51.7 ± 10.0	NS
P	<i>Cryptogramma stelleri</i>	Steller's Rockbrake				S2	3	19.4 ± 0.0	NS
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S2?	2	24.9 ± 0.0	NS
P	<i>Rumex persicarioides</i>	Peach-leaved Dock				S2?	1	27.1 ± 0.0	NS
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S2?	5	22.4 ± 1.0	NS
P	<i>Carex peckii</i>	White-Tinged Sedge				S2?	4	25.9 ± 5.0	NS
P	<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S2S3	161	19.4 ± 0.0	NS
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2S3	20	27.4 ± 0.0	NS
P	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane				S2S3	1	78.9 ± 0.0	NS
P	<i>Eutrochium dubium</i>	Coastal Plain Joe Pye Weed				S2S3	2	77.4 ± 0.0	NS
P	<i>Lactuca hirsuta</i>	Hairy Lettuce				S2S3	6	27.3 ± 1.0	NS
P	<i>Impatiens pallida</i>	Pale Jewelweed				S2S3	13	43.1 ± 7.0	NS
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2S3	73	10.7 ± 7.0	NS
P	<i>Draba arabisans</i>	Rock Whitlow-Grass				S2S3	30	48.0 ± 1.0	NS
P	<i>Boechera stricta</i>	Drummond's Rockcress				S2S3	11	48.0 ± 1.0	NS
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort				S2S3	9	63.6 ± 1.0	NS
P	<i>Hypericum majus</i>	Large St John's-wort				S2S3	6	25.4 ± 10.0	NS
P	<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3	6	45.2 ± 0.0	NS
P	<i>Empetrum atropurpureum</i>	Purple Crowberry				S2S3	5	35.1 ± 7.0	NS
P	<i>Euphorbia polygonifolia</i>	Seaside Spurge				S2S3	12	40.7 ± 3.0	NS
P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2S3	8	17.7 ± 0.0	NS
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3	19	31.2 ± 1.0	NS
P	<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2S3	7	15.6 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Polygala polygama</i>	Racemed Milkwort				S2S3	19	52.4 ± 1.0	NS
P	<i>Polygonum aviculare</i> ssp. <i>buxiforme</i>	Box Knotweed				S2S3	9	20.8 ± 0.0	NS
P	<i>Polygonum oxyspermum</i> ssp. <i>raii</i>	Ray's Knotweed				S2S3	5	27.4 ± 1.0	NS
P	<i>Polygonum oxyspermum</i>	Sharp-fruit Knotweed				S2S3	1	40.0 ± 0.0	NS
P	<i>Rumex triangulivalvis</i>	Triangular-valve Dock				S2S3	10	20.3 ± 5.0	NS
P	<i>Primula mistassinica</i>	Mistassini Primrose				S2S3	1	93.6 ± 7.0	NS
P	<i>Anemone quinquefolia</i>	Wood Anemone				S2S3	39	53.2 ± 0.0	NS
P	<i>Caltha palustris</i>	Yellow Marsh Marigold				S2S3	32	15.3 ± 0.0	NS
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2S3	1	48.4 ± 7.0	NS
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3	15	33.7 ± 0.0	NS
P	<i>Galium obtusum</i>	Blunt-leaved Bedstraw				S2S3	8	62.4 ± 0.0	NS
P	<i>Salix pellita</i>	Satiny Willow				S2S3	8	71.1 ± 7.0	NS
P	<i>Tiarella cordifolia</i>	Heart-leaved Foamflower				S2S3	16	51.4 ± 0.0	NS
P	<i>Agalinis purpurea</i> var. <i>parviflora</i>	Small-flowered Purple False Foxglove				S2S3	1	81.1 ± 0.0	NS
P	<i>Boehmeria cylindrica</i>	Small-spike False-nettle				S2S3	60	49.8 ± 0.0	NS
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	10	45.4 ± 0.0	NS
P	<i>Carex capillaris</i>	Hairlike Sedge				S2S3	8	68.9 ± 0.0	NS
P	<i>Carex comosa</i>	Bearded Sedge				S2S3	9	15.6 ± 5.0	NS
P	<i>Carex houghtoniana</i>	Houghton's Sedge				S2S3	7	76.8 ± 0.0	NS
P	<i>Carex hystericina</i>	Porcupine Sedge				S2S3	8	42.5 ± 0.0	NS
P	<i>Carex longii</i>	Long's Sedge				S2S3	1	98.0 ± 10.0	NS
P	<i>Eleocharis ovata</i>	Ovate Spikerush				S2S3	5	22.2 ± 0.0	NS
P	<i>Scirpus pedicellatus</i>	Stalked Bulrush				S2S3	4	64.3 ± 0.0	NS
P	<i>Vallisneria americana</i>	Wild Celery				S2S3	14	50.1 ± 0.0	NS
P	<i>Najas gracillima</i>	Thread-Like Naiad				S2S3	22	26.1 ± 0.0	NS
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S2S3	90	23.5 ± 0.0	NS
P	<i>Spiranthes casei</i>	Case's Ladies'-Tresses				S2S3	1	72.5 ± 0.0	NS
P	<i>Spiranthes casei</i> var. <i>novaescotiae</i>	Case's Ladies'-Tresses				S2S3	4	65.6 ± 0.0	NS
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2S3	11	19.5 ± 1.0	NS
P	<i>Potamogeton friesii</i>	Fries' Pondweed				S2S3	10	38.3 ± 1.0	NS
P	<i>Woodsia glabella</i>	Smooth Cliff Fern				S2S3	2	73.3 ± 1.0	NS
P	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3	7	34.5 ± 0.0	NS
P	<i>Botrychium simplex</i>	Least Moonwort				S2S3	7	19.6 ± 1.0	NS
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3	7	19.5 ± 7.0	NS
P	<i>Potamogeton pulcher</i>	Spotted Pondweed			Vulnerable	S3	27	51.9 ± 0.0	NS
P	<i>Angelica atropurpurea</i>	Purple-stemmed Angelica				S3	1	99.9 ± 0.0	NS
P	<i>Conioselinum chinense</i>	Chinese Hemlock-parsley				S3	9	53.3 ± 0.0	NS
P	<i>Hieracium robinsonii</i>	Robinson's Hawkweed				S3	2	94.9 ± 1.0	NS
P	<i>Iva frutescens</i>	Big-leaved Marsh-elder				S3	59	20.5 ± 1.0	NS
P	<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S3	15	33.7 ± 0.0	NS
P	<i>Symphyotrichum boreale</i>	Boreal Aster				S3	8	49.1 ± 5.0	NS
P	<i>Symphyotrichum undulatum</i>	Wavy-leaved Aster				S3	158	22.8 ± 0.0	NS
P	<i>Symphyotrichum ciliolatum</i>	Fringed Blue Aster				S3	22	30.8 ± 0.0	NS
P	<i>Alnus serrulata</i>	Smooth Alder				S3	699	50.3 ± 0.0	NS
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch				S3	74	37.7 ± 0.0	NS
P	<i>Betula pumila</i>	Bog Birch				S3	4	81.7 ± 0.0	NS
P	<i>Cardamine parviflora</i>	Small-flowered Bittercress				S3	17	23.5 ± 7.0	NS
P	<i>Palustricodon aparinoides</i>	Marsh Bellflower				S3	14	34.6 ± 1.0	NS
P	<i>Mononeuria groenlandica</i>	Greenland Stitchwort				S3	239	31.7 ± 0.0	NS
P	<i>Sagina nodosa</i>	Knotted Pearlwort				S3	51	41.0 ± 0.0	NS
P	<i>Sagina nodosa</i> ssp. <i>borealis</i>	Knotted Pearlwort				S3	3	56.4 ± 0.0	NS
P	<i>Stellaria longifolia</i>	Long-leaved Starwort				S3	6	71.0 ± 0.0	NS
P	<i>Ceratophyllum echinatum</i>	Prickly Hornwort				S3	11	38.3 ± 3.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed				S3	37	21.9 ± 0.0	NS
P	<i>Crassula aquatica</i>	Water Pygmyweed				S3	1	43.0 ± 0.0	NS
P	<i>Empetrum eamesii</i>	Pink Crowberry				S3	94	24.1 ± 0.0	NS
P	<i>Vaccinium uliginosum</i>	Alpine Bilberry				S3	4	63.2 ± 1.0	NS
P	<i>Halenia deflexa</i>	Spurred Gentian				S3	3	48.5 ± 0.0	NS
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3	26	3.1 ± 0.0	NS
P	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil				S3	3	34.7 ± 3.0	NS
P	<i>Utricularia resupinata</i>	Inverted Bladderwort				S3	14	59.8 ± 0.0	NS
P	<i>Epilobium strictum</i>	Downy Willowherb				S3	9	25.3 ± 0.0	NS
P	<i>Polygala sanguinea</i>	Blood Milkwort				S3	36	24.1 ± 0.0	NS
P	<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb				S3	20	38.0 ± 1.0	NS
P	<i>Plantago rugelii</i>	Rugel's Plantain				S3	12	31.7 ± 3.0	NS
P	<i>Primula laurentiana</i>	Laurentian Primrose				S3	58	37.0 ± 7.0	NS
P	<i>Samolus parviflorus</i>	Seaside Brookweed				S3	61	47.8 ± 1.0	NS
P	<i>Pyrola minor</i>	Lesser Pyrola				S3	2	43.1 ± 7.0	NS
P	<i>Anemone virginiana</i>	Virginia Anemone				S3	15	24.2 ± 1.0	NS
P	<i>Cephalanthus occidentalis</i>	Common Buttonbush				S3	1967	52.4 ± 0.0	NS
P	<i>Galium labradoricum</i>	Labrador Bedstraw				S3	60	80.6 ± 0.0	NS
P	<i>Salix pedicellaris</i>	Bog Willow				S3	104	42.9 ± 0.0	NS
P	<i>Salix sericea</i>	Silky Willow				S3	132	49.8 ± 0.0	NS
P	<i>Saxifraga paniculata</i> ssp. <i>laestadii</i>	Laestadius' Saxifrage				S3	13	42.6 ± 7.0	NS
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimperel				S3	20	27.5 ± 0.0	NS
P	<i>Laportea canadensis</i>	Canada Wood Nettle				S3	46	22.8 ± 2.0	NS
P	<i>Pilea pumila</i>	Dwarf Clearweed				S3	9	15.5 ± 0.0	NS
P	<i>Viola nephrophylla</i>	Northern Bog Violet				S3	4	27.7 ± 1.0	NS
P	<i>Carex bebbii</i>	Bebb's Sedge				S3	20	19.4 ± 0.0	NS
P	<i>Carex castanea</i>	Chestnut Sedge				S3	39	43.0 ± 0.0	NS
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3	13	19.4 ± 0.0	NS
P	<i>Carex eburnea</i>	Bristle-leaved Sedge				S3	11	71.3 ± 0.0	NS
P	<i>Carex hirtifolia</i>	Pubescent Sedge				S3	22	24.9 ± 0.0	NS
P	<i>Carex lupulina</i>	Hop Sedge				S3	81	15.6 ± 1.0	NS
P	<i>Carex rosea</i>	Rosy Sedge				S3	43	21.2 ± 2.0	NS
P	<i>Carex swanii</i>	Swan's Sedge				S3	19	42.1 ± 0.0	NS
P	<i>Carex tenera</i>	Tender Sedge				S3	8	32.2 ± 0.0	NS
P	<i>Carex tribuloides</i>	Blunt Broom Sedge				S3	15	21.3 ± 0.0	NS
P	<i>Carex tuckermanii</i>	Tuckerman's Sedge				S3	42	20.0 ± 0.0	NS
P	<i>Carex atratiformis</i>	Scabrous Black Sedge				S3	3	68.3 ± 0.0	NS
P	<i>Eleocharis nitida</i>	Quill Spikerush				S3	20	32.9 ± 1.0	NS
P	<i>Eleocharis flavescens</i> var. <i>olivacea</i>	Bright-green Spikerush				S3	15	52.1 ± 0.0	NS
P	<i>Eriophorum gracile</i>	Slender Cottongrass				S3	8	27.6 ± 1.0	NS
P	<i>Coeloglossum viride</i>	Long-bracted Frog Orchid				S3	13	23.5 ± 1.0	NS
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper				S3	579	18.9 ± 0.0	NS
P	<i>Neottia bifolia</i>	Southern Twayblade				S3	141	10.0 ± 0.0	NS
P	<i>Platanthera flava</i>	Southern Rein-Orchid				S3	37	49.8 ± 0.0	NS
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	60	7.8 ± 0.0	NS
P	<i>Platanthera hookeri</i>	Hooker's Orchid				S3	25	6.1 ± 0.0	NS
P	<i>Dichanthelium linearifolium</i>	Narrow-leaved Panic Grass				S3	15	24.0 ± 7.0	NS
P	<i>Piptatheropsis canadensis</i>	Canada Ricegrass				S3	20	42.9 ± 0.0	NS
P	<i>Poa glauca</i>	Glaucous Blue Grass				S3	16	32.3 ± 1.0	NS
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S3	3	36.2 ± 1.0	NS
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed				S3	7	38.5 ± 1.0	NS
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S3	11	38.5 ± 1.0	NS
P	<i>Asplenium viride</i>	Green Spleenwort				S3	12	62.4 ± 7.0	NS
P	<i>Dryopteris fragrans</i>	Fragrant Wood Fern				S3	12	57.7 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Sceptridium dissectum</i>	Dissected Moonwort				S3	7	45.5 ± 0.0	NS
P	<i>Polypodium appalachianum</i>	Appalachian Polypody				S3	23	29.9 ± 0.0	NS
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed				S3?	29	19.8 ± 0.0	NS
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3?	51	4.7 ± 0.0	NS
P	<i>Diphasiastrum x sabinifolium</i>	Savin-leaved Ground-cedar				S3?	6	69.1 ± 0.0	NS
P	<i>Bidens vulgata</i>	Tall Beggarticks				S3S4	6	30.2 ± 0.0	NS
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3S4	25	15.6 ± 7.0	NS
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed				S3S4	40	10.3 ± 11.0	NS
P	<i>Bidens beckii</i>	Water Beggarticks				S3S4	29	50.1 ± 0.0	NS
P	<i>Packera paupercula</i>	Balsam Groundsel				S3S4	101	19.3 ± 0.0	NS
P	<i>Atriplex glabriuscula</i> var. <i>franktonii</i>	Frankton's Saltbush				S3S4	14	20.6 ± 0.0	NS
P	<i>Shepherdia canadensis</i>	Soapberry				S3S4	113	19.2 ± 0.0	NS
P	<i>Vaccinium boreale</i>	Northern Blueberry				S3S4	4	61.6 ± 0.0	NS
P	<i>Vaccinium cespitosum</i>	Dwarf Bilberry				S3S4	43	14.0 ± 0.0	NS
P	<i>Vaccinium corymbosum</i>	Highbush Blueberry				S3S4	22	32.4 ± 0.0	NS
P	<i>Fagus grandifolia</i>	American Beech				S3S4	1049	7.5 ± 0.0	NS
P	<i>Bartonia virginica</i>	Yellow Bartonia				S3S4	44	42.8 ± 0.0	NS
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed				S3S4	76	38.7 ± 3.0	NS
P	<i>Decodon verticillatus</i>	Swamp Loosestrife				S3S4	105	4.2 ± 0.0	NS
P	<i>Nuphar microphylla</i>	Small Yellow Pond-lily				S3S4	5	11.2 ± 0.0	NS
P	<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed				S3S4	32	18.8 ± 1.0	NS
P	<i>Fallopia scandens</i>	Climbing False Buckwheat				S3S4	16	23.2 ± 2.0	NS
P	<i>Rumex pallidus</i>	Seabeach Dock				S3S4	2	86.1 ± 0.0	NS
P	<i>Pyrola asarifolia</i>	Pink Pyrola				S3S4	10	45.8 ± 1.0	NS
P	<i>Endotropis alnifolia</i>	alder-leaved buckthorn				S3S4	267	24.2 ± 0.0	NS
P	<i>Amelanchier spicata</i>	Running Serviceberry				S3S4	62	21.2 ± 3.0	NS
P	<i>Crataegus succulenta</i>	Fleshy Hawthorn				S3S4	1	46.3 ± 0.0	NS
P	<i>Fragaria vesca</i> ssp. <i>americana</i>	Woodland Strawberry				S3S4	60	23.9 ± 0.0	NS
P	<i>Fragaria vesca</i>	Woodland Strawberry				S3S4	15	21.8 ± 0.0	NS
P	<i>Galium aparine</i>	Common Bedstraw				S3S4	35	24.5 ± 0.0	NS
P	<i>Geocaulon lividum</i>	Northern Comandra				S3S4	4	42.0 ± 0.0	NS
P	<i>Limosella australis</i>	Southern Mudwort				S3S4	15	53.7 ± 0.0	NS
P	<i>Ulmus americana</i>	White Elm				S3S4	85	19.6 ± 0.0	NS
P	<i>Verbena hastata</i>	Blue Vervain				S3S4	175	11.5 ± 7.0	NS
P	<i>Viola sagittata</i> var. <i>ovata</i>	Arrow-Leaved Violet				S3S4	67	15.8 ± 0.0	NS
P	<i>Viola selkirkii</i>	Great-Spurred Violet				S3S4	6	31.4 ± 4.0	NS
P	<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage				S3S4	11	52.4 ± 0.0	NS
P	<i>Carex argyrantha</i>	Silvery-flowered Sedge				S3S4	27	13.7 ± 1.0	NS
P	<i>Sisyrinchium atlanticum</i>	Eastern Blue-Eyed-Grass				S3S4	114	41.5 ± 0.0	NS
P	<i>Triglochin gaspensis</i>	Gasp – Arrowgrass				S3S4	12	48.5 ± 0.0	NS
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4	15	21.5 ± 0.0	NS
P	<i>Juncus subcaudatus</i>	Woods-Rush				S3S4	25	21.8 ± 1.0	NS
P	<i>Luzula parviflora</i> ssp. <i>melanocarpa</i>	Black-fruited Woodrush				S3S4	7	67.2 ± 7.0	NS
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3S4	21	28.1 ± 1.0	NS
P	<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4	13	27.2 ± 0.0	NS
P	<i>Platanthera obtusata</i>	Blunt-leaved Orchid				S3S4	12	29.0 ± 10.0	NS
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3S4	52	31.4 ± 4.0	NS
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail				S3S4	11	53.2 ± 1.0	NS
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass				S3S4	303	24.9 ± 0.0	NS
P	<i>Coleataenia longifolia</i>	Long-leaved Panicgrass				S3S4	1598	59.6 ± 0.0	NS
P	<i>Panicum philadelphicum</i>	Philadelphia Panicgrass				S3S4	23	32.2 ± 0.0	NS
P	<i>Koeleria spicata</i>	Narrow False Oats				S3S4	13	22.2 ± 0.0	NS
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort				S3S4	17	28.6 ± 0.0	NS
P	<i>Lorinseria areolata</i>	Netted Chain Fern				S3S4	1	90.8 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Equisetum pratense</i>	Meadow Horsetail				S3S4	11	26.2 ± 0.0	NS
P	<i>Diphasiastrum complanatum</i>	Northern Ground-cedar				S3S4	16	27.3 ± 0.0	NS
P	<i>Diphasiastrum sitchense</i>	Sitka Ground-cedar				S3S4	1	32.7 ± 1.0	NS
P	<i>Huperzia appressa</i>	Mountain Firmoss				S3S4	18	51.1 ± 1.0	NS
P	<i>Sceptridium multifidum</i>	Leathery Moonwort				S3S4	15	14.9 ± 10.0	NS
P	<i>Botrychium matricariifolium</i>	Daisy-leaved Moonwort				S3S4	5	1.6 ± 10.0	NS
P	<i>Viola canadensis</i>	Canada Violet				SH	1	25.4 ± 0.0	NS
P	<i>Greeneochloa coarctata</i>	Small Reedgrass				SH	1	49.4 ± 6.0	NS

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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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84	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
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71	Herman, T.B. & Power, T.D., Eaton, B. 1995. Population status of Blanding's Turtle (<i>Emydoidea blandingii</i>) in Nova Scotia. Can. Field-Nat., 109: 182-191. 79 recs.
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62	McMullin, R.T. 2022. Maritimes lichen records. Canadian Museum of Nature.
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40	Cameron, E. 2007. Canadian Gypsum Co. survey 2005-07. Dillon Consulting Ltd, 40 recs.
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38	Mazerolle, D.M. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 13515 recs.
37	Newell, R.E. 2019. <i>Crocantthemum canadense</i> records compiled for provincial status report. pers. comm. from Ruth Newell to AC CDC.
37	Tsehtik, M.; Leblanc, M.; Creaser, T. 2020. Coastal Action: 2020 Species at Risk Data. Coastal Action, 40 records.
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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.
33	Blaney, C.S. 2019. Sean Blaney 2019 field data. Atlantic Canada Conservation Data Centre, 4407 records.
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33	Hall, R.A. 2001. S. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
33	Klymko, J.J.D.; Robinson, S.L. 2012. 2012 field data. Atlantic Canada Conservation Data Centre, 447 recs.
33	Ogden, J. NS DNR Butterfly Collection Dataset. Nova Scotia Department of Natural Resources. 2014.
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32	Patrick, A.; Horne, D.; Noseworthy, J. et. al. 2017. Field data for Nova Scotia and New Brunswick, 2015 and 2017. Nature Conservancy of Canada.
31	Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
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29	Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
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28	eBird. 2014. eBird Basic Dataset. Version: EBD_relNov-2014. Ithaca, New York. Nov 2014. Cornell Lab of Ornithology, 25036 recs.
28	Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
27	Pepper, Chris. 2012. Observations of breeding Canada Warbler's along the Eastern Shore, NS. Pers. comm. to S. Blaney, Jan. 20, 28 recs.
26	McLean, K. 2020. Wood Turtle observations . Clean Annapolis River Project.
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25	Burnie, B. 2013. 2013 <i>Scirpus longii</i> field data. Mount Saint Vincent University, 51 recs.
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24	Belliveau, A.G. 2021. New Black ash site records near Kentville, NS. Acadia University, 47 records.
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24	Broders, H.G. 2006. Unpublished data. , 24 recs.
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22	Breen, A. 2018. 2018 Atlantic Whitefish observations. Coastal Action.
22	Cameron, R.P. 2009. <i>Erioderma pedicellatum</i> database, 1979-2008. Dept Environment & Labour, 103 recs.
22	Nelly, T.H. 2006. <i>Cyrtopodium arietinum</i> in Hants Co. Pers. comm. to C.S. Blaney. 22 recs, 22 recs.
22	NS DNR. 2017. Black Ash records from NS DNR Permanent Sample Plots (PSPs), 1965-2016. NS Dept of Natural Resources.
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21	Riley, J. 2023. Rare and at Risk lichens and plants near Goldsmith Lake, NS. Pers. comm. to J.L. Churchill.
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20	Wilhelm, S.I. et al. 2019. Colonial Waterbird Database. Canadian Wildlife Service.
19	Robinson, S.L. 2014. 2013 Field Data. Atlantic Canada Conservation Data Centre.
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18	Chapman, C.J. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 11171 recs.
18	Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J; ONHIC, 487 recs.
17	Anderson, Frances; Neily, Tom. 2010. A Reconnaissance Level Survey of Calciphilous Lichens in Selected Karst Topography in Nova Scotia with Notes on Incidental Bryophytes. Mersey Tobeatic Research Institute.
17	Bayne, D.M., Cameron, R.C. 2014. 2014 Lichen records near Little Bon Mature Lake, Queens NS. NS Department of Natural Resources.
17	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
17	McLean, K. 2019. Species At Risk observations. Clean Annapolis River Project.
16	Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of <i>C. insculpta</i> sightings. Acadia University, Wolfville NS, 88 recs.
16	Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
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16	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.
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	Nature Conservancy of Canada. 2022. NCC Field data for Nova Scotia. Nature Conservancy of Canada.
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15	Klymko, J.J.D. 2012. Odonata specimens & observations, 2010. Atlantic Canada Conservation Data Centre, 425 recs.
15	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
15	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobeatic Research Institute, 668 recs.
15	Powell, B.C. 1967. Female sexual cycles of <i>Chrysemy spicta</i> & <i>Clemmys insculpta</i> in Nova Scotia. Can. Field-Nat., 81:134-139. 26 recs.
14	Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources, 143 recs.
14	Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
14	e-Butterfly. 2018. Selected Maritimes butterfly records from 2016 and 2017. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.

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13	Haughian, S.R. 2018. Description of <i>Fuscopannaria leucosticta</i> field work in 2017. New Brunswick Museum, 314 recs.
13	Klymko, J.J.D.; Robinson, S.L. 2014. 2013 field data. Atlantic Canada Conservation Data Centre.
13	MacKinnon, D.S. 1998. Ponthook Lake survey map & notes. Dept of Environment and Labour, Protected Areas Branch, 13 recs.
13	Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust, 95 recs.
13	Nova Scotia Nature Trust. 2014. Ladyslipper 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	Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
12	Cameron, R.P. 2013. 2013 rare species field data. Nova Scotia Department of Environment, 71 recs.
12	Hill, N.M. 2021. Observation of <i>Carex haydenii</i> and black ash near Marshy Hope and Ponthook Lake. pers. comm.
11	Blaney, C.S & Spicer, C.D.; Popma, T.M.; Basquill, S.P. 2003. Vascular Plant Surveys of Northumberland Strait Rivers & Amherst Area Peatlands. Nova Scotia Museum Research Grant, 501 recs.
11	Blaney, C.S. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre.
11	Neily, T.H. 2010. <i>Erioderma pedicellatum</i> records 2005-09. Mersey Tobiatic Research Institute, 67 recs.
11	Phinney, Lori; Toms, Brad; et. al. 2016. Bank Swallows (<i>Riparia riparia</i>) in Nova Scotia: inventory and assessment of colonies. Merser Tobeiatc Research Institute, 25 recs.
10	Belliveau, A.G. & Vail, Cole; King, Katie. 2020. New <i>Allium tricoccum</i> locations, Cornwallis River. Chapman, C.J. (ed.) Acadia University.
10	Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centre, 30 recs.
10	Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
10	Churchill, J.L.; Walker, J. 2017. Species at Risk Surveys at Correctional Services Canada Properties in Nova Scotia and New Brunswick. Atlantic Canada Conservation Data Centre.
10	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.
10	Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
10	Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.
10	Neily, T. H. 2018. Lichen and Bryophyte records, AEI 2017-2018. Tom Neily; Atlantic Canada Conservation Data Centre.
10	Parker, M.S.R. 2011. Hampton Wind Farm 2010: significant floral/faunal observations. , 13 recs.
10	Phinney, L. 2019. Little Brown <i>Myotis</i> maternal colony counts and birdSAR, 2019. Mersey Tobeatic Research Institute.
9	Archibald, D.R. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
9	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
9	Blaney, C.S; Korol, J.B.; Crowell, I. 2023. 2022 AC CDC Botany program field data. Atlantic Canada Conservation Data Centre, 5293 records.
9	Parks Canada. 2010. Specimens in or near National Parks in Atlantic Canada. Canadian National Museum, 3925 recs.
9	Toms, Brad. 2011. Species at Risk data from 2011 field surveys. Mersey Tobeatic Research Institute, 17 recs.
8	Gilhen, J. 1984. Amphibians & Reptiles of Nova Scotia, 1st Ed. Nova Scotia Museum, 164pp.
8	Holder, M.L.; Kingsley, A.L. 2000. Kinglsey 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. 2019. Atlantic Canada Conservation Data Centre zoological fieldwork 2018. Atlantic Canada Conservation Data Centre.
8	Klymko, J. Butterfly records at the Nova Scotia Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2017.
8	Neily, T.H. & Anderson, F. 2011. Lichen observations from NRC site at Sandy Cove. , 97.
8	Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro. 2003.
8	Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
8	Pohl, G.P. Specimen data from Northern Forest Research Centre. Northern Forest Research Centre. 2022.
8	Sollows, M.C.. 2008. NBM Science Collections databases: mammals. New Brunswick Museum, Saint John NB, download Jan. 2008, 4983 recs.
8	Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
8	White, S. 2019. Notable species sightings, 2018. East Coast Aquatics.
7	Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.
7	Boyne, A.W. & Grecian, V.D. 1999. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 23 recs.
7	Cameron, B. 2006. <i>Hepatica americana</i> Survey at Scotia Mine Site in Gays River, and Discovery of Three Yellow-listed Species. Conestoga-Rovers and Associates, (a consulting firm), october 25. 7 recs.
7	Cameron, R.P. 2006. <i>Erioderma pedicellatum</i> 2006 field data. NS Dept of Environment, 9 recs.
7	Kennedy, B.; Cron, C. 2019. observations of Poison Sumac and Buttonbush, Nova Scotia. pers. commun to AC CDC.
7	Pepper, C. 2021. Rare bird, plant and mammal observations in Nova Scotia, 2017-2021.
6	Benjamin, L.K. 2006. <i>Cypridium arietinum</i> . Pers. comm. to D. Mazerolle. 9 recs, 9 recs.
6	Brazner, J.; Hill, N. 2018. Plant observations along the Cornwallis River, Nova Scotia. Nova Scotia Department of Lands and Forestry.
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6	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.
6	Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
6	Clayden, S.R. 1998. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, 19759 recs.
6	Envirosphere Consultants Ltd., Strum. 2023. SAR records from three Environmental Assessments in Nova Scotia. Envirosphere Consultants Ltd., Strum, 48 records.
6	Matthew Smith. 2010. Field trip report from Avon Caving Club outlining the discovery of <i>Cypridium arietinum</i> and <i>Hepatica nobilis</i> populations. Public Works and Government Services Canada.
6	McKendry, Karen. 2016. Rare species observations, 2016. Nova Scotia Nature Trust, 19 recs.

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6	Nova Scotia Nature Trust. 2022. Ram's Head Lady Slipper observations from 2015 and 2019. , 6 records.
6	Riley, Johnathan. 2023. Wisqoq north of Kejimkujik National Park. Pers. comm. Municipality of the District of Digby, 6 records.
6	Rock, J. 2020. Atlantic Canada Piping Plover field surveys: Nesting pairs by beach, 2018-2020. Environment and Climate Change Canada - Canadian Wildlife Service, 216 records.
6	Voscort, L. <i>Bombus terricola</i> specimens collected during MSc research in southwestern Nova Scotia. Acadia University. 2022.
5	Carter, Jeff; Churchill, J.; Churchill, I.; Churchill, L. 2020. Bank Swallow colony Scots Bay, NS. Atlantic Canada Conservation Data Centre.
5	McMullin, Troy. 2021. <i>Anzia colpodes</i> observations near Kejimkujik National Park. Canadian Museum of Nature.
5	Plissner, J.H. & Haig, S.M. 1997. 1996 International piping plover census. US Geological Survey, Corvallis OR, 231 pp.
5	Porter, K. 2013. 2013 rare and non-rare vascular plant field data. St. Mary's University, 57 recs.
5	Towell, C. 2014. 2014 Northern Goshawk and Common Nighthawk email reports, NS. NS Department of Natural Resources.
5	Wallace, S. 2020. Stewardship Department species occurrence data on NTNB preserves. Nature Trust of New Brunswick.
5	Whittam, R.M. 1999. Status Report on the Roseate Tern (update) in Canada. Committee on the Status of Endangered Wildlife in Canada, 36 recs.
4	Benedict, B. Connell Herbarium Specimens (Data) . University New Brunswick, Fredericton. 2003.
4	Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 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, 64 recs.
4	Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 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 Jijuktu'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. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
4	Klymko, J.J.D. 2011. Insect fieldwork & submissions, 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 742 recs.
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	Sabine, D.L. <i>Bombus terricola</i> specimens in Dwayne Sabine's personal collection. pers. comm. 2022.
4	Toms, B. 2015. <i>Lophiola aurea</i> (Goldencrest) records from Molega Lake. Mersey Tobeatic 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 Tobeatic Research Institute, 4 records.
3	Bradford, R. 2004. <i>Coregonus huntsmani</i> locations. Dept of Fisheries & Oceans, Atlantic Region, Pers. comm. to K. Bredin. 4 recs.
3	Doubt, J. 2013. Email to Sean Blaney with Nova Scotia records of <i>Fissidens exilis</i> at Canadian Museum of Nature. pers. comm., 3 records.
3	Hill, N. and D. Patriquin. 2013. 2013 rare plant observations in Williams Lake Backlands area. Fern Hill Institute of Plant Conservation, Berwick, Nova Scotia, 3 records.
3	Hill, N.M., Myra, M. 2017. Email to Sean Blaney regarding rich intervale flora on Nictaux River. Fern Hill Institute, 3 records.
3	Mersey Tobeatic 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	Neily, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobeatic Research Institute, 1691 records.
3	Newington, Nina. 2023. <i>Anzia colpodes</i> at Beal's Brook, NS. Pers. comm. to J. Churchill.
3	Nova Scotia Department of Lands and Forestry. 2018. Wood Turtle observations in, or near, the cornwallis River watershed. NS DLF, pers. comm. to AC CDC.
3	Sabine, M. 2016. NB DNR staff incidental Black Ash observations. New Brunswick Department of Natural Resources.
3	Staicer, C. 2013. Personal communication concerning <i>Hirundo rustica</i> nesting in and around Kejimkujik NP. NS. Pers. comm.
3	Thompson, R. 2018. Williamsdale Quarry Expansion Project, NS, Environmental Assessment rare plants. Dexter Construction Company Limited.
3	White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
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