C U R A T O R I A L  R E P O R T  N U M B E R  1 0 1

# Macrolichens of Nova Scotia: a provisional checklist

**by Frances Anderson**

Nova Scotia Museum
Nova Scotia Department of Communities, Culture and Heritage

CURATORIAL REPORTS

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# Abstract

A provisional checklist of 341 macrolichen species in 85 genera collected in Nova Scotia's eighteen counties contains records of specimens examined by the author from ten institutional herbaria and ten personal collections. Regional lists and a comprehensive province-wide list are included. Herbarium collections are indicated by a solid circle, personal collections by an empty circle.

# Background

Lichen collecting in Nova Scotia began with Archibald Menzies in the late 1700s (Goward *et al.* 1998), but is best known in the literature from Alexander MacKay (1881) who collected in Pictou County on the north shore of the province (specimens at NSPM), John Macoun (1902) who collected mainly in Cape Breton and on Sable Island (collections at CANL, H and elsewhere) and Ivan Mackenzie Lamb (1954) who also focused on Cape Breton (collections at CANL). Occasional collections were made by visiting botanists from Harvard in the early 20th century, particularly in Cape Breton. Many of their collected specimens are at Harvard's Farlow Herbarium.

John Erskine, who was primarily a botanist and high school principal, collected lichens sporadically from the early to mid-1950s while he was working on contract for the Nova Scotia Museum, where most of his specimens are housed. He contributed an article on lichens to the Journal of Education (1976). Since the 1950s, most published reports on lichens in Nova Scotia have focused on specific locations such as national parks (Roland 1980, Selva 2004, McMullin 2009, 2012, etc.), Sable Island (Richardson *et al.* 2011), or have included Nova Scotia locations as one of many in treatments of particular genera (Arup 1994, Thomson 1967, Tønsberg 1993, Selva & Tibell 1999) or in species range maps (Thomson 1994, Brodo 2001). In the 1980's Wolfgang Maass began his extensive lichen investigations (collections at NBM). Maass published articles on macrolichen species hitherto unreported from Nova Scotia, *Cavernularia hultenii* (1981), *Erioderma pedicellatum* (1983, 2002), *Moelleropsis (*1986*)* and *Pannaria lurida* (1986).

Until the mid-1980s and with the exception of Maass, most collections from Nova Scotia came from Cape Breton, Sable Island, national parks or the areas immediately adjacent to universities in Halifax and Wolfville in the Annapolis Valley. The macrolichen species collected were unsurprising and represented mostly common *Cladonia* species and common epiphytes. Since then, collection locations have broadened to encompass a wider range of habitats and geographic areas in the province. Two Tuckerman Workshops for lichenologists added to the list: 1999 in southwestern Nova Scotia and 2004 in Parrsboro on the Fundy coast.

In recent years, environmental assessments prior to changes in the landscape, air quality monitoring through lichen plots and a renewed interest in the province's biota have

produced lichen records from previously unexplored areas (Cameron 2002, Cameron & Richardson 2006, Cameron *et al.* 2009). These have yielded records not previously reported from Nova Scotia that have expanded the North American distribution information for some species (Neily & Anderson 2010, Anderson & Neily 2012). In fact, deliberate collecting has contributed greatly to the information recorded in this checklist. The distribution and variety of lichen species are not as narrow and limited as the historical picture suggested.

# Checklist Organization

This macrolichen checklist contains records of Nova Scotia lichens that I have personally examined from ten institutional herbaria* and ten private collections** in northeastern North America. It does not include records in literature unless these are based on cited specimens that I have been able to locate and examine. This possibly controversial approach is not meant to cast doubt on the veracity of published records or range maps. However, the inclusion of such records without examination of voucher material would have created a different kind of checklist. The resulting list is a preliminary outline of the province's macrolichen biota rather than a comprehensive flora. In the course of preparing the list, I discovered some records that were based on incorrectly identified specimens. A further benefit of examining all the specimens on which the list is based is the inclusion of "by-catch" – finding additional species in the packets not listed on the packet or in the herbarium records.

The choice of which species to include as macrolichens (rather than crustose) follows Hinds and Hinds (2007). Nomenclature follows Esslinger (2012). The checklist is arranged alphabetically by macrolichen genus and species in spreadsheet format. Institutional herbarium records are indicated by a solid circle; personal herbarium records are empty circles. The list of herbaria and personal collections consulted follows this section (P6). The herbarium list is repeated in the comprehensive spreadsheet at the end of the document.

Nova Scotia's eighteen counties have been grouped into regions: Fundy Shore, Fundy Shore/Valley, South Shore, Eastern Shore/Halifax, Northern, and Cape Breton Island. A short description of each region's topography, settlement patterns and climate is followed by a list of the macrolichen species collected from the area. The regional lists are for practical use by those collecting in a particular area or by those who want to see at a glance what is already known from the region.

Major islands where collections have originated are grouped with their counties. Sable Island is grouped with Halifax. Despite Brier Island's popularity for tourists and fame among bird watchers, only one of the examined collections held a few specimens from there; it is grouped with Digby County. Seal Island (Yarmouth County), off the southern coast, is also popular with birdwatchers. Several specimens are in the Nova Scotia Museum collection. Uninhabited St. Paul Island, off the northeast tip of Cape Breton, is grouped with Victoria County; Scatarie Island with Cape Breton County; Isle Haute with Cumberland County.

The comprehensive spreadsheet at the end (P 56) includes 341 macrolichen species arranged alphabetically by genus and species, species authorities, counties arranged alphabetically and a reference specimen for each species which is cited in the last column. The spreadsheet is available in a separate downloadable file called Nova Scotia Macrolichen Checklist 2014. A spreadsheet that allows the reader to highlight an entry across all locations is available from the author by contacting museum@gov.ns.ca. In the reference column, herbarium numbers ending with P are from the Nova Scotia Museum. Other institutional herbarium codes appear in parentheses. Reference specimens from personal collections have no parentheses. Details on numbers of specimens recorded per county or the herbaria/collections where specimens are located are available from the author at museum@gov.ns.ca. Those details are not included for simplicity of viewing and because in many cases, specimen packets contained other species for which there were no county records, but also no listing on the packet. Those specimens might not appear in herbarium databases.

As with any checklist, the end result is a primarily a picture of where the collecting has been done and is necessarily a work in progress. Any errors are entirely the responsibility of the author.

## • Herbaria consulted

ACAD (E.C. Smith Herbarium, Acadia University, NS)
CANL (Canadian Museum of Nature Herbarium)
CBU (Cape Breton University, NS)
DAL (Dalhousie University, NS)
FH (Farlow Herbarium, Harvard University)
NBM (New Brunswick Museum)
NDSU (North Dakota State University)
NSPM (Nova Scotia Museum)
NY (New York Botanical Garden)
STFU (St. Francis Xavier University, NS)

## ○ Personal collections

F. Anderson
Sean Basquill
Rob Cameron
Harold Clapp
Jim Hinds
Elisabeth Lay
Wolfgang Maass
Tom Neily
A.J. Roland (Kejimkujik National Park)
Mark Seaward

# Geography

Nova Scotia juts into the North Atlantic from the northeastern corner of the North American continent. Stretching on a southwest/northeast axis from 43°22'N, 66°23'W to 47°1'N 59°40'W, it is attached to the mainland by a narrow marshy lowland of approximately 11 x 25 kilometers, and is nearly surrounded by salt water. The salt water ranges from the shallow and therefore summer-warm Northumberland Strait (20–68 m deep; up to 20˚C), through the North Atlantic which is influenced by the cold Labrador current and the Gulf Stream. It includes the deep, cold waters of the Bay of Fundy (to 200 m deep; up to 12˚C in summer), home to some of the highest tides in the world. The dominant climatic influences are continental, resulting from prevailing winds that sweep from the west and southwest; however, the ocean moderates temperature extremes (Davis & Browne 1996). All but two of the province's eighteen counties have a substantial coastal border; the exceptions have two coasts.

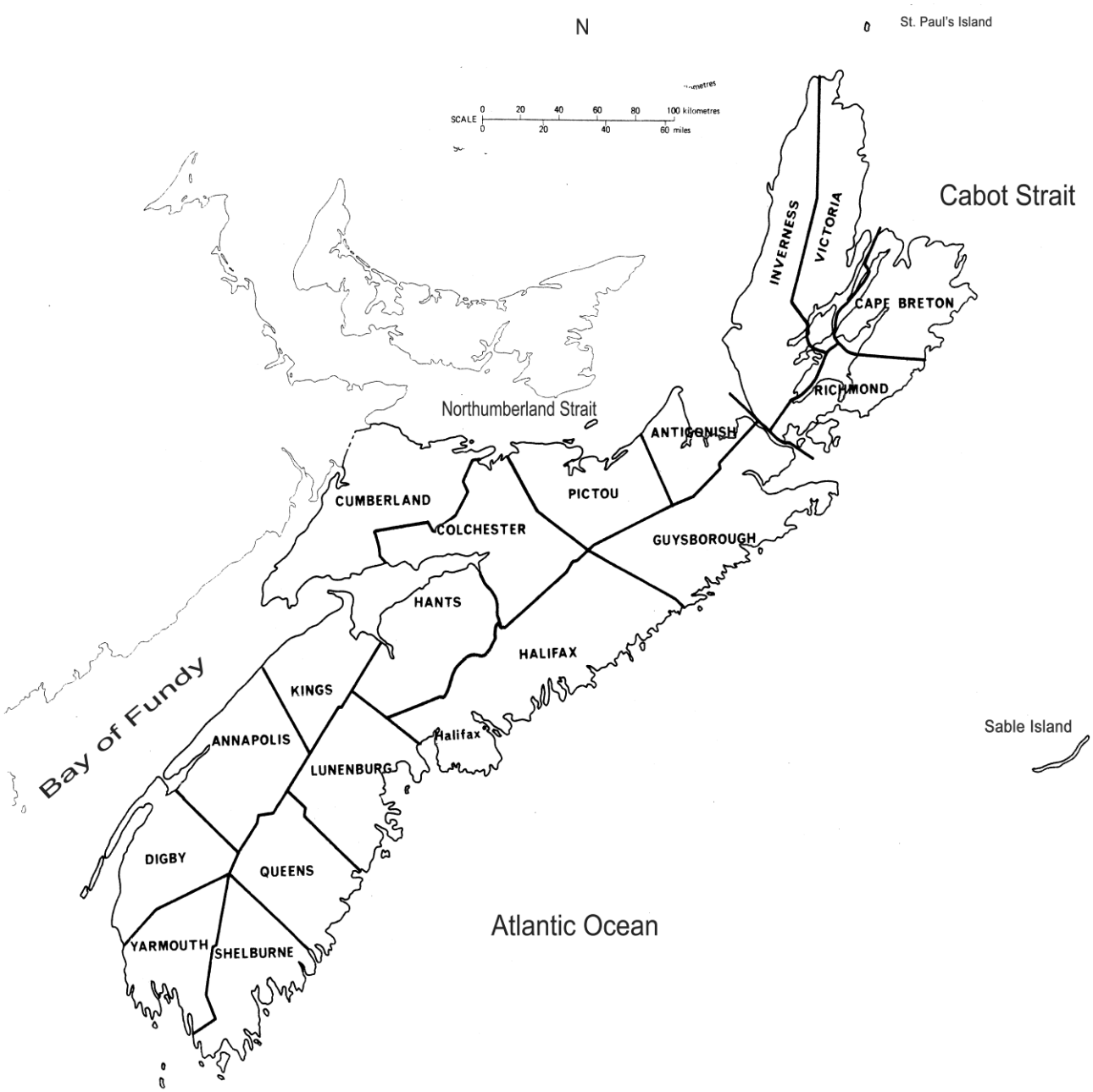
Nova Scotia's 55,000 $km^2$ encompass climatic and vegetation zones ranging from boreal (Cape Breton) through temperate (eastern sector), oceanic and maritime (Brodo 2001). Not surprisingly, the lichen flora of the province is richly varied. Since the province is not more than 130 km wide at any point, maritime fog is a major component of the climate on all coasts except most of the Northumberland Strait. Seasonal extremes are moderated by the presence of salt water to a range of mean annual temperatures of less than 5˚C in northern Cape Breton to 7-7.5˚C (Davis & Browne 1996; Clayden 2010; Clayden *et al.* 2011). Temperature ranges are narrow compared to continental regions. Humidity is generally high and rainfall is generally between 1000 - 1400mm (Davis & Browne 1996; Clayden *et al.* 2011), though it is up to 1600 mm in the Highlands of Cape Breton.

With less than a million people in the 2011 census, Nova Scotia is sparsely populated by eastern North American standards. The coasts remain the most settled. Except for the corridor from Halifax north to Truro along the province's main highway, the interior of the province is less developed and is open to resource extraction.

Small farms and landholdings became the norm after the arrival of European settlers in the 1700's. Industrial development in the late 19$^{th}$ and early 20$^{th}$ century shifted the pattern of landholding and development. In the last century, resource extraction through mining and clearcut forest harvesting have had a greater impact on the landscape than its long history of habitation or its short history of industrial development.

Gradients of temperature, moisture and topography found in Nova Scotia create a patchwork of ecological conditions (Clayden 2011). Therefore, the present checklist locations are grouped by counties into regions, west to east, that share general climatological /geographical features. Though many features overlap, county boundaries being political rather than geographical in nature, these regions share many similar

habitats and often blend together on the ground. Grouping them by region may help to illuminate species distribution patterns. The descriptions of the regions that follow are necessarily brief and general. Except where noted, they are based primarily on information compiled from Davis & Browne's Natural History of Nova Scotia (1996) as well as from on-the-ground observations.



# Regions

## Fundy Shore: Yarmouth, Digby counties

Characterised by a deeply indented, low, rocky coastline on the Atlantic, the coast smoothes out to include sandy beaches, dune systems and rocky cliffs as it rounds the western tip of the province. Tidal marshes, barachois ponds, and intertidal mud flats extend along the coast, which is somewhat sheltered from the Bay of Fundy by the long, narrow (generally less than 4 kilometers wide) basalt ridge that is Digby Neck. Brier Island, at the end of Digby Neck, is a famous bird migration hot-spot (Mills 2011). In these counties, low, rolling terrain with poor drainage is riddled with lakes linked by small meandering rivers and streams with low pH, rising toward the interior to an elevation of over 125 m in the granite barrens where county boundaries meet. Swamps, swales and bogs abound (Davis & Browne 1996).

Habitation since the mid-1770s has resulted in high disturbance. A provincially rare eastern white cedar (*Thuja occidentalis)* swamp occurs some 12 kilometers inland from the Bay of Fundy in Digby County. Atlantic Coastal Plain vascular plant flora is concentrated on lakeshores, meadows and bogs in Yarmouth County (Crowley *et al.* 2011).

| | Fundy Shore | | | |
|---|---|---|---|---|
| Macrolichen species | Yarmouth | Seal Isl. | Digby | Brier Isl. |
| Alectoria | | | | |
| sarmentosa | ●○ | ● | ● | |
| Anaptychia | | | | |
| palmulata | ○ | | | |
| Anzia | | | | |
| colpodes | ●○ | | | |
| Arctoparmelia | | | | |
| centrifuga | ●● | | ● | |
| incurva | ●● | | | |
| Baeomyces | | | | |
| rufus | | | ● | |
| Bryoria | | | | |
| capillaris | ● | | | |
| furcellata | ●○ | | ● | |
| fuscescens | ○ | | | |
| trichodes ssp americana | ● | | ● | |
| trichodes ssp trichodes | ●●○ | | ● ● | |
| Cetraria | | | | |
| aculeata | | | ● | |
| Cetrelia | | | | |
| chicitae | ●○ | | ○ | |
| olivetorum | ●○ | | ●○ | |
| Cladonia | | | | |
| arbuscula | ●● | | ● | |
| arbuscula ssp.mitis | ○ | | | |
| boryi | ●●○ | | ● | |
| caespiticia | ●● | | ● | |
| cariosa | ● | | | |
| cenotea | ●● | | | |
| chlorophaea | ●● | | ● | |
| coniocraea | ● | | | |
| crispata | ●●●● | | ● | |
| cristatella | ● | | ● | |
| digitata | ● | | | |
| farinacea | ○ | | ● | |
| fimbriata | ●○ | | | |
| furcata | ●● | | ●●○ | |
| gracilis ssp gracilis | ● | | | |
| gracilis ssp turbinata | ● | | ● | |
| grayi | ● | | | |
| incrassata | ○ | | | |
| labradorica | ●○ | | | |
| macilenta var. bacillaris | | | ● | |
| maxima | ●●○ | | | |

| | Fundy Shore | | | |
|---|---|---|---|---|
| Macrolichen species | Yarmouth | Seal Isl. | Digby | Brier Isl. |
| multiformis | ●● | | ●●●○ | |
| ochrochlora | ●●○ | | ● | |
| oricola | ● | | | |
| parasitica | | | ● | |
| pleurota | | | ● | |
| rangiferina | ●● | | ● | |
| rei | ● | | | |
| scabriuscula | ●● | | ●●●○ | |
| squamosa | ● | | ● | |
| stellaris | ● | | | |
| strepsilis | ● | | ● | |
| terrae-novae | ●●○○ | | ●○ | |
| turgida | ●● | | ● | |
| uncialis | ●● | | ●●● | |
| verticillata | ●● | | | |
| Coccocarpia | | | | |
| palmicola | ○ | | ●○ | |
| Collema | | | | |
| furfuraceum | | | ● | |
| nigrescens | | | ○ | |
| subflaccidum | ●●●○ | | ○ | |
| Degelia | | | | |
| plumbea | ●○ | | ○ | |
| Dermatocarpon | | | | |
| luridum | ○ | | | |
| Dibaeis | | | | |
| baeomyces | ●● | | ● | |
| Erioderma | | | | |
| mollissimum | ○ | | ○ | |
| Evernia | | | | |
| mesomorpha | ●●●○ | | ●● | |
| Everniastrum | | | | |
| catawbiense | | | ○ | |
| Flavoparmelia | | | | |
| caperata | ●○ | | ○○ | |
| Fuscopannaria | | | | |
| ahlneri | ○ | | ● | |
| leucosticta | | | ● | |
| Heterodermia | | | | |
| leucomela | | | ● | |
| neglecta | ○ | | ●○ | |
| speciosa | ○ | | | |
| squamulosa | ○ | | ● | |

| | Fundy Shore | | | |
|---|---|---|---|---|
| Macrolichen species | Yarmouth | Seal Isl. | Digby | Brier Isl. |
| Hypogymnia | | | | |
| incurvoides | ○ | | ●● | |
| krogiae | | | ● | |
| physodes | ●● | | ●●●○ | |
| tubulosa | ○ | | ●○ | |
| Hypotrachyna | | | | |
| afrorevoluta | | | ○ | |
| revoluta | | | ○ | |
| Imshaugia | | | | |
| aleurites | ○ | | ●○ | |
| placarodia | ○ | | ● | |
| Lasallia | | | | |
| papulosa | ●● | | ● | |
| Leptogium | | | | |
| corticola | | | ●●○ | |
| cyanescens | ●●○ | | ○ | |
| hibernicum | | | ● | |
| laceroides | ●○ | | ●●○○ | |
| millegranum | ●○ | | | |
| subtile | ○ | | ● | |
| tenuissimum | ○ | | | |
| Lobaria | | | | |
| pulmonaria | ●●○ | | ●●●○ | |
| quercizans | ●●●○ | | ●○ | |
| scrobiculata | ●○ | | ●○ | |
| Melanelia | | | | |
| panniformis | | | ● | |
| Melanelixia | | | | |
| subaurifera | ●● | | ●○ | |
| Menegazzia | | | | |
| subsimilis | ○ | | ○ | |
| terebrata | ●●○○ | | ●○ | |
| Moelleropsis | | | | |
| nebulosa ssp. frullaniae | | | ●●○ | |
| Nephroma | | | | |
| helveticum | ○○ | | ○● | |
| laevigatum | ●○ | | ●● | |
| resupinatum | ○ | | | |
| Normandina | | | | |
| pulchella | ○○ | | | |
| Pannaria | | | | |
| conoplea | ●○○ | | ●●○ | |
| rubiginosa | ○ | | ● | |

| | Fundy Shore | | | |
|---|---|---|---|---|
| Macrolichen species | Yarmouth | Seal Isl. | Digby | Brier Isl. |
| Parmelia | | | | |
| saxatilis | ● | | ●● | |
| squarrosa | ●●○○ | | ○○ | |
| sulcata | ●● | | ○ | |
| Parmeliella | | | | |
| parvula | | | ○ | |
| triptophylla | ○ | | ● | |
| Parmelinopsis | | | | |
| horrescens | ●○ | | | |
| minarum | ○ | | | |
| Parmeliopsis | | | | |
| capitata | | | ● | |
| Parmotrema | | | | |
| crinitum | ●○○ | | ●●○ | |
| perlatum | ●●○ | | ●○ | |
| Peltigera | | | | |
| aphthosa | ●● | | ● | |
| canina | ●● | | ●○ | |
| collina | | | ● | |
| didactyla | | | ● | |
| evansiana | ○ | | | |
| horizontalis | ○ | ● | | |
| hymenina | ● | | | |
| leucophlebia | | | ● | |
| membranacea | ●○ | | | |
| polydactylon | ●●○ | | ● | |
| rufescens | ○ | | | |
| Phaeophyscia | | | | |
| rubropulchra | ○ | | ○ | |
| Physcia | | | | |
| adscendens | ● | | ● | |
| caesia | ●● | | ● | |
| millegrana | ○ | | | |
| stellaris | | | ●● | |
| tenella | ●● | ● | | |
| Physconia | | | | |
| detersa | ○ | | | |
| Platismatia | | | | |
| glauca | ●●● | | ●● | |
| tuckermanii | ● | | ○ | |
| Pseudocyphellaria | | | | |
| perpetua | ●●○ | | ●○ | |
| Punctelia | | | | |
| appalachensis | ○ | | ●●○ | |
| rudecta | ●●○ | | ●○○ | |

| | Fundy Shore | | | |
|---|---|---|---|---|
| Macrolichen species | Yarmouth | Seal Isl. | Digby | Brier Isl. |
| Pycnothelia | | | | |
| papillaria | ●● | | ● | |
| Pyxine | | | | |
| sorediata | ○ | | ● | |
| Ramalina | | | | |
| americana | ○ | | | |
| dilacerata | ●● | | ● | |
| farinacea | | | ●● | ● |
| intermedia | ●●● | ● | ● | |
| obtusata | | | | |
| roesleri | ●●○○ | ● | ●● | |
| thrausta | ○ | | ○ | |
| Sphaerophorus | | | | |
| fragilis | ● | | | |
| globosus | ○ | | ● | |
| Stereocaulon | | | | |
| dactyllophyllum | ●● | | ● ● | |
| glaucescens | ●● | | | |
| grande | | | | |
| paschale | ●● | | ● | |
| pileatum | ● | | ● | |
| subcoralloides | ● | | | |
| Sticta | | | | |
| fuliginosa | ●●○ | | ●○ | |
| Tuckermanopsis | | | | |
| americana | ●○ | | ● | |
| orbata | ● | | ● | |
| sepincola | ● | | | |
| Umbilicaria | | | | |
| americana | ● | | | |
| mammulata | | | ● | |
| muehlenbergii | ● | | ● | |
| Usnea | | | | |
| ceratina | ● | | | |
| cornuta | ○○ | | ●○ | |
| filipendula | ● | | ● | |
| flavocardia | | ● | | |
| fragilescens var. mollis | | ● | | |
| fulvoreagens | ● | ● | | |
| longissima | | | ● | |
| merrillii | ●○○ | | ●○ | |
| rubicunda | | | ● | |
| schadenbergiana | ●○ | | ●○○ | |
| silesiaca | ●● | | | |

| | Fundy Shore | | | |
|---|---|---|---|---|
| **Macrolichen species** | **Yarmouth** | **Seal Isl.** | **Digby** | **Brier Isl.** |
| **strigosa** | ●●● | | ●● | |
| **subfloridana** | ● | | ● | |
| **subscabrosa** | ● | | ● | |
| **trichodea** | ● | | ●●●●○ | |
| **Xanthoparmelia** | | | | |
| **conspersa** | ●●○ | | ● | |
| **cumberlandia** | ● | | | |
| **plittii** | ● | | | |
| **viriduloumbrina** | | | ○ | |
| **Xanthoria** | | | | |
| **parietina** | ●●● | | ●●● | ● |
| **polycarpa** | ● | | ● | |

## Fundy Shore/ Valley: Annapolis, Kings, Hants counties

The granite ridge running up the “spine” of the western end of the province forms the southern boundary of these three counties. Rivers flow north off the interior higher elevation which is mostly mixed hardwoods, down into the fertile lowland of the Annapolis Valley where farming dominates. Erratics are common along the granite ridge. The Valley runs northeast/southwest between the forested and farmed basalt ridge of the North Mountain along the Bay of Fundy and the inland granite uplands of the South Mountain. Cold and fog from the Bay of Fundy are mostly blocked from the Valley by the North Mountain which drops steeply to the water, allowing some of the hottest temperatures in the province to occur in the Valley. The farmed rolling hills of Hants County contain significant gypsum-anhydrite deposits with former quarry sites and karst topography rich in calciphiles. Its slow-moving rivers have extensive floodplains and muddy tidal marshes.

| | Fundy Shore/Valley | | |
|---|---|---|---|
| Macrolichen species | Annapolis | Kings | Hants |
| Ahtiana | | | |
| aurescens | | | ●○ |
| Alectoria | | | |
| sarmentosa | ● | | ● |
| Anaptychia | | | |
| palmulata | ○ | | |
| Anzia | | | |
| colpodes | ●●○ | ● | ● |
| Arctoparmelia | | | |
| centrifuga | ● | ●● | |
| Bryoria | | | |
| capillaris | | ● | |
| furcellata | ● | ● | ●●○ |
| nadvornikiana | ● | | |
| trichodes ssp americana | ● | | |
| trichodes ssp trichodes | ● | | ● |
| Cetraria | | | |
| arenaria | | ●● | |
| Cetrelia | | | |
| chicitae | | ●●● | ● |
| olivetorum | | ●●○ | |
| Cladonia | | | |
| albonigra | | ● | |
| arbuscula | ● | ●●●● | ● |
| boryi | | ●● | ● |
| caespiticia | | ● | |
| cariosa | | ● | ○ |
| cenotea | | ●●● | ● |
| chlorophaea | | ● | ○ |
| coniocraea | | ● | ○ |
| cornuta ssp. cornuta | | ● | |
| crispata | ○ | ●●● | |
| cristatella | ●● | ●● | ●● |
| digitata | | | ● |
| farinacea | | ● | |
| fimbriata | | ● | ● |
| furcata | ●● | ● | |
| gracilis ssp gracilis | | ● | |
| gracilis ssp turbinata | | ●● | ● |
| grayi | ● | | |
| macilenta var. bacillaris | | ● | |
| mateocyatha | | ● | ●○ |
| maxima | ● | ● | ● |
| multiformis | ● | ●●● | ●○ |

| | Fundy Shore/Valley | | |
|---|---|---|---|
| Macrolichen species | Annapolis | Kings | Hants |
| norvegica | | | |
| ochrochlora | ● | ●● | |
| oricola | | ● | |
| parasitica | | | ○ |
| phyllophora | | ● | |
| pleurota | ● | ● | ● |
| pyxidata | | ●● | ○ |
| ramulosa | | ● | |
| rangiferina | ● | ●●● | ●● |
| rappii | | | |
| rei | | ● | ●○ |
| scabriuscula | ● | ●● | |
| squamosa | ●● | ● | ?● |
| stellaris | | ●●● | ●● |
| strepsilis | | | ●○ |
| subulata | | ● | |
| terrae-novae | ● | | |
| turgida | ●○ | ● | ●○ |
| uncialis | ● | ● | ○ |
| verticillata | | ● | |
| Coccocarpia | | | |
| palmicola | | | ● |
| Collema | | | |
| bachmanianum | | | ● |
| crispum | | | ● |
| furfuraceum | | ● | ○ |
| leptaleum | ● | | |
| nigrescens | | | ●○ |
| occultatum | ● | | |
| subflaccidum | ●●○○ | ●●●● | |
| tenax | | | ●○ |
| Degelia | | | |
| plumbea | ● | ○ | |
| Dendriscocaulon | | | |
| intricatulum | ●● | | |
| Dermatocarpon | | | |
| luridum | ●○ | ●● | |
| Dibaeis | | | |
| baeomyces | ● | ●● | |
| Ephebe | | | |
| hispidula | ● | | |
| lanata | ●○○ | | ● |
| Evernia | | | |
| mesomorpha | | ●● | ● |
| prunastri | | | ●●●○ |

| | Fundy Shore/Valley | | |
|---|---|---|---|
| Macrolichen species | Annapolis | Kings | Hants |
| Flavoparmelia | | | |
| caperata | ● | ●● | ● |
| Fuscopannaria | | | |
| ahlneri | ○ | | |
| praetermissa | | | ●○ |
| saubinetii | | | ○○ |
| sorediata | | | ● |
| Heterodermia | | | |
| neglecta | ● | | |
| speciosa | ●○ | ● | |
| squamulosa | ●● | ●● | |
| Hypogymnia | | | |
| incurvoides | | ● | ● |
| krogiae | ● | ● | ● |
| physodes | ● | ●●●○ | |
| tubulosa | ●● | ●● | ● |
| Imshaugia | | | |
| aleurites | | | ○ |
| Lasallia | | | |
| papulosa | ● | ●● | |
| Leptogium | | | |
| corticola | ○ | | ●○ |
| cyanescens | ●●●○○ | ●●● | ●●●○○ |
| dactylinum | ●○ | | |
| hirsutum | | ○ | |
| laceroides | ●○ | | ● |
| lichenoides | | | ●○ |
| millegranum | | | ● |
| saturninum | ●○ | | ●○ |
| schraderi | | | ●○ |
| subtile | ○ | ○ | ●○ |
| tenuissimum | | | ●○ |
| teretiusculum | ● | | ●○ |
| Lobaria | | | |
| pulmonaria | ● | ●●●● | ●○○ |
| quercizans | ○ | ●●●● | ○○ |
| scrobiculata | ● | ●● | ●○ |
| Melanelia | | | |
| disjuncta | | | ● |
| panniformis | ● | | ○ |
| sorediata | ● | | ● |
| stygia | | ●● | |
| Melanelixia | | | |
| fuliginosa | ● | ● | |
| subaurifera | ● | ●●● | ● |

| | Fundy Shore/Valley | | |
|---|---|---|---|
| Macrolichen species | Annapolis | Kings | Hants |
| Menegazzia | | | |
| subsimilis | | | ● |
| Myelochroa | | | |
| aurulenta | | ● | |
| galbina | | ● | ●○○ |
| Nephroma | | | |
| helveticum | ●○ | | |
| laevigatum | ●○ | ● | ●○ |
| parile | ●●●○ | ● | ● |
| resupinatum | ● | | |
| Normandina | | | |
| pulchella | ●○ | ● | ● |
| Pannaria | | | |
| conoplea | ●○ | | |
| lurida s.l. | ● | | |
| rubiginosa | ●○ | | ○ |
| Parmelia | | | |
| saxatilis | ●● | ● | |
| squarrosa | ●● | ●●● | ● |
| sulcata | ● | ● | |
| Parmeliella | | | |
| triptophylla | ●○○ | ● | ○ |
| Parmelinopsis | | | |
| minarum | ● | | |
| Parmeliopsis | | | |
| capitata | ● | | |
| Parmotrema | | | |
| crinitum | ●●○ | ●● | |
| perlatum | ●○ | ● | |
| reticulatum | ● | ● | |
| Peltigera | | | |
| aphthosa | ●○○ | ●●● | |
| canina | | ● | |
| didactyla | | ● | |
| elisabethae | ●○ | | ●● |
| evansiana | ●○○ | ●● | ○ |
| horizontalis | ●○○ | ● | ○ |
| lepidophora | | | ●○ |
| leucophlebia | ● | ●● | ●○ |
| membranacea | ●● | | ● |
| neopolydactyla | ●● | ●● | |
| occidentalis | | | |
| polydactylon | | ●●●○ | ●○ |
| praetextata | ●○ | ● | |
| rufescens | | ● | ● |

| | Fundy Shore/Valley | | |
|---|---|---|---|
| **Macrolichen species** | **Annapolis** | **Kings** | **Hants** |
| **Phaeophyscia** | | | |
| **adiastola** | ● | | |
| **rubropulchra** | ● | ●● | ● |
| **Phylliscum** | | | |
| **demangeoni** | | | ● |
| **Physcia** | | | |
| **adscendens** | | ●● | ● |
| **aipolia** | ● | | |
| **dubia** | | | ○ |
| **millegrana** | | ●●● | |
| **phaea** | | | ○ |
| **stellaris** | ● | ●●● | ●○ |
| **Physconia** | | | |
| **grumosa** | ● | | ● |
| **Placynthium** | | | |
| **flabellosum** | ●○○ | | |
| **nigrum** | | | ○ |
| **Platismatia** | | | |
| **glauca** | | ●●● | |
| **tuckermanii** | ● | ●●● | ●○ |
| **Polychidium** | | | |
| **muscicola** | ○ | | |
| **Protopannaria** | | | |
| **pezizoides** | ● | | ● |
| **Pseudocyphellaria** | | | |
| **perpetua** | ○ | ○ | ● |
| **Psorula** | | | |
| **rufonigra** | ● | | |
| **Punctelia** | | | |
| **appalachensis** | ● | ●○○ | ●○ |
| **rudecta** | ●● | ●● | ●○ |
| **Pycnothelia** | | | |
| **papillaria** | | ●● | ●● |
| **Pyxine** | | | |
| **sorediata** | ● | ●● | |
| **Racodium** | | | |
| **rupestre** | ○○ | ○○ | |
| **Ramalina** | | | |
| **americana** | ●○ | ● | ●○ |
| **dilacerata** | | ● | ●●○ |
| **farinacea** | | ●●● | ●●● |
| **intermedia** | ● | ● | |
| **roesleri** | ● | | |
| **Santessionella** | | | |
| **crossophylla** | | | ○ |

| | Fundy Shore/Valley | | |
|---|---|---|---|
| Macrolichen species | Annapolis | Kings | Hants |
| Solorina | | | |
| saccata | | | ●○ |
| Sphaerophorus | | | |
| globosus | ● | ● | ●○ |
| Spilonema | | | |
| revertens | ●○ | | |
| Stereocaulon | | | |
| dactyllophyllum | ●● | ●● | ○ |
| glaucescens | | ● | |
| intermedium | | | ○ |
| paschale | ● | | |
| pileatum | | | ○ |
| saxatile | | ● | |
| tomentosum | | ● | |
| Sticta | | | |
| fuliginosa | | ●● | |
| limbata | | ●○ | |
| Tuckermanopsis | | | |
| americana | ● | ●● | ● |
| ciliaris | | ●● | |
| orbata | | | ● |
| Umbilicaria | | | |
| deusta | | ● | |
| mammulata | ●●● | ● | |
| muehlenbergii | ●●● | ●● | ●○ |
| polyphylla | | ● | |
| Usnocetraria | | | |
| oakesiana | ● | | ● |
| Usnea | | | |
| cavernosa | | ●● | ● |
| filipendula | ● | ●●●○ | |
| fulvoreagens | ● | ● | ● |
| longissima | ● | ●●● | ● |
| macaronesica | | | |
| mutabilis | ● | | ● |
| silesiaca | | | ● |
| strigosa | ●● | ●●● | |
| subfloridana | ● | ●● | ● |
| subscabrosa | | | ● |
| trichodea | ● | | |
| Vahliella | | | |
| leucophaea | ●○○ | | |
| Vulpicida | | | |
| pinastri | ● | | |

| | Fundy Shore/Valley | | |
|---|---|---|---|
| **Macrolichen species** | **Annapolis** | **Kings** | **Hants** |
| **Xanthoparmelia** | | | |
| **conspersa** | | ●● | |
| **cumberlandia** | ● | ●● | ●○ |
| **Xanthoria** | | | |
| **parietina** | | ●● | ● |
| **polycarpa** | | ●● | |

## South Shore: Shelburne, Queens, Lunenburg counties

The granite ridge that runs up the "spine" forms the northern boundaries of these counties. Drumlins covering mostly slate slope down to the Atlantic coast. At the southern end, Shelburne County's terrain is low and hummocky, with black spruce bogs and mixed conifer/hardwood swamps. Swampy areas often lie between the moderately rich soil of the drumlins of Queens and Lunenburg counties. The northeastern portion of Lunenburg County becomes forested granite uplands with shallow soil, exposed rock and erratics. Several long rivers run slightly southeast to the sea.

Significant Atlantic Coastal Plain flora is also found in these counties (Crowley *et al.* 2011). The coastal conifer fog forest along the Atlantic slope includes a multitude of sheltered, low-lying, poorly drained sites that are extremely high in humidity. The entire windy coastline is deeply indented, with small islands, occasional high headlands and extended white sandy beaches.

| | South Shore | | |
|---|---|---|---|
| Macrolichen species | Shelburne | Queens | Lunenburg |
| Ahtiana | | | |
| aurescens | | | ●●○ |
| Alectoria | | | |
| sarmentosa | ○ | ● | ●○○ |
| Anaptychia | | | |
| palmulata | ● | ●●○○ | ●○ |
| Anzia | | | |
| colpodes | ●○ | ●●○○ | ●○ |
| Arctoparmelia | | | |
| centrifuga | | ●● | ●●○ |
| incurva | ○ | ● | |
| Baeomyces | | | |
| rufus | | ○ | ○ |
| Bryoria | | | |
| capillaris | | ● | |
| furcellata | ●○○ | ● | ●○ |
| fuscescens | ● | | |
| nadvornikiana | | | ●○ |
| trichodes ssp americana | ● | ● | |
| trichodes ssp trichodes | ● | ●● | ●●○ |
| Cetraria | | | |
| aculeata | ●●○ | | ● |
| arenaria | ●○ | | ● |
| Cetrelia | | | |
| chicitae | ○ | ●●● | ●○○ |
| olivetorum | ● | ●● | ●○ |
| Cladonia | | | |
| albonigra | | | ○ |
| arbuscula | ●●●○ | ●●● | ●●○ |
| arbuscula ssp.mitis | ●● | ● | ● |
| boryi | | ●● | ●●●○ |
| caespiticia | ●● | ● | |
| cenotea | ●● | ● | |
| chlorophaea | ●●○ | ●●● | ●○ |
| coniocraea | ○ | | ○ |
| cornuta ssp. cornuta | | ● | |
| crispata | ●○●●● | ● | |
| cristatella | ○ | ●●●●● | ●● |
| deformis | | | ●● |
| dimorphoclada | | ● | |
| farinacea | | ○ | ● |
| fimbriata | ● | ○ | |
| floerkeana | ●● | | |
| furcata | ● | ●●●● | ● |
| gracilis ssp gracilis | ●●○ | | |
| gracilis ssp turbinata | ●●●●○ | ●● | ● |

| | South Shore | | |
|---|---|---|---|
| **Macrolichen species** | **Shelburne** | **Queens** | **Lunenburg** |
| **grayi** | | ●● | |
| **incrassata** | ○ | ●● | |
| **labradorica** | ● | | |
| **macilenta var. bacillaris** | ●●●○ | ● | ●○ |
| **maxima** | | ●●● | ● |
| **multiformis** | ●●●○ | ●○ | ●○ |
| **norvegica** | | ● | |
| **ochrochlora** | ●●● | ●○ | |
| **oricola** | | ● | |
| **parasitica** | | ● | |
| **pleurota** | ● | ● | ○ |
| **pyxidata** | ● | ● | ●○ |
| **ramulosa** | | ○ | |
| **rangiferina** | ●● | ●●● | ●○ |
| **rappii** | ● | ● | |
| **rei** | ●○ | ● | ●○ |
| **scabriuscula** | ● | ○ | ●● |
| **squamosa** | ●● | ●●● | ○ |
| **stellaris** | ● | ●● | ●●○ |
| **strepsilis** | ●● | ● | ●● |
| **subtenuis** | ●● | | |
| **terrae-novae** | ●●● | ●● | |
| **turgida** | | | ●● |
| **uncialis** | ○ | ●● | ●●●○ |
| **verticillata** | ●○ | ●○○ | ●● |
| **Coccocarpia** | | | |
| **palmicola** | ●○ | ○ | ●○○ |
| **Collema** | | | |
| **furfuraceum** | ○● | ●●○ | ●○○ |
| **leptaleum** | | ● | ●○ |
| **nigrescens** | ●●○ | ● | ●○ |
| **occultatum** | | | ●○ |
| **subflaccidum** | | ●●○○ | ●○ |
| **Degelia** | | | |
| **plumbea** | ●●○○ | | ●○○ |
| **Dendriscocaulon** | | | |
| **intricatulum** | | ● | ● |
| **Dermatocarpon** | | | |
| **luridum** | | | ○ |
| **Dibaeis** | | | |
| **baeomyces** | | | ● |
| **Ephebe** | | | |
| **lanata** | | ○ | ○ |
| **perspinulosa** | | ●○ | |
| **Erioderma** | | | |
| **mollissimum** | ●●○○ | ●○ | ● |
| **pedicellatum** | ○ | ● | ○○ |

| | South Shore | | |
|---|---|---|---|
| Macrolichen species | Shelburne | Queens | Lunenburg |
| Evernia | | | |
| mesomorpha | ●●● | | ●○ |
| prunastri | | | ● |
| Everniastrum | | | |
| catawbiense | ○ | | ●○ |
| Flavoparmelia | | | |
| baltimorensis | | ● | |
| caperata | ● | ●○○ | ●●○ |
| Fuscopannaria | | | |
| ahlneri | ●○ | ●○ | ○ |
| leucosticta | ●○ | ●○○ | ○ |
| sorediata | ●○ | | ●○ |
| Heterodermia | | | |
| galactophylla | | | ● |
| neglecta | ●○○ | ●○○○ | ●●○ |
| speciosa | ● | | ●○ |
| squamulosa | | | ●○ |
| Hypogymnia | | | |
| incurvoides | | ● | ●●○ |
| krogiae | ● | ●○ | |
| physodes | ●●●○ | ●●○○ | ●○ |
| tubulosa | ●○ | ●○○○ | |
| vittata | | | ● |
| Hypotrachyna | | | |
| afrorevoluta | | | ●●○ |
| revoluta | ● | ○ | ○ |
| Imshaugia | | | |
| aleurites | ● | ○ | ●○ |
| placarodia | ●○ | ●○ | ●○ |
| Lasallia | | | |
| papulosa | ●●● | ●● | ●○ |
| Leptogium | | | |
| corticola | ●●○ | ○ | ● |
| cyanescens | ●●○○ | ●●○ | ●○○ |
| hibernicum | ● | | |
| imbricatum | | ●○ | ● |
| laceroides | ○○ | ○○○ | ●●○ |
| millegranum | ●○○ | ● | ●○ |
| saturninum | ●○ | | ● |
| subtile | | | ●○ |
| tenuissimum | | ●●○ | ● |
| teretiusculum | | | ● |
| Lobaria | | | |
| pulmonaria | ●●○ | ●●●●○ | ●○ |
| quercizans | ●●●○○ | ●●○ | ●○○ |
| scrobiculata | ●●○○ | ●●○ | ●○ |

| | South Shore | | |
|---|---|---|---|
| **Macrolichen species** | **Shelburne** | **Queens** | **Lunenburg** |
| **Melanelia** | | | |
| **culbersonii** | | | ● |
| **disjuncta** | | | ●○ |
| **panniformis** | | | ●○ |
| **Melanelixia** | | | |
| **subaurifera** | ● | ●●● | |
| **Melanohalea** | | | |
| **olivacea** | ● | ● | ● |
| **Menegazzia** | | | |
| **subsimilis** | ● | ● | ●●○ |
| **terebrata** | ● | ● | ●○ |
| **Moelleropsis** | | | |
| **nebulosa ssp. frullaniae** | ●○○ | ●○ | ●○ |
| **Myelochroa** | | | |
| **galbina** | | | ●○ |
| **Nephroma** | | | |
| **bellum** | | ● | |
| **helveticum** | ●○ | ○○ | ●●○○ |
| **laevigatum** | ●○○○ | ○○○○ | ●○○ |
| **parile** | | | ●○ |
| **resupinatum** | | | ● |
| **Normandina** | | | |
| **pulchella** | ● | ●○○○○ | ● |
| **Pannaria** | | | |
| **conoplea** | ○○○ | ●○○○ | ●● |
| **lurida s.l.** | ●○ | ○ | ●○○ |
| **rubiginosa** | ●○ | ○○ | ●○ |
| **Parmelia** | | | |
| **omphalodes** | | ● | ●○ |
| **saxatilis** | ●● | ○ | ●○ |
| **squarrosa** | ●●○ | ●●●○○○ | ●○ |
| **sulcata** | ●●●● | ○ | ●○ |
| **Parmeliella** | | | |
| **appalachensis** | ○ | | |
| **parvula** | ●○○ | ●○ | ○ |
| **triptophylla** | | ●○○○ | ●○ |
| **Parmelinopsis** | | | |
| **minarum** | | | ●○ |
| **Parmeliopsis** | | | |
| **capitata** | ● | | ● |
| **Parmotrema** | | | |
| **crinitum** | ●○○○ | ●○○ | ●●○ |
| **perlatum** | ●● | ●○○ | ●●○ |
| **reticulatum** | | | ● |
| **Peltigera** | | | |
| **aphthosa** | ● | ○○ | ●○ |
| **canina** | ○ | ○○ | |

| | South Shore | | |
|---|---|---|---|
| Macrolichen species | Shelburne | Queens | Lunenburg |
| collina | | | ○ |
| didactyla | | ○ | ● |
| elisabethae | ○ | ● | |
| evansiana | | ●○ | |
| extenuata | | ○ | ○ |
| horizontalis | | | ●● |
| leucophlebia | | ● | ● |
| membranacea | | ●● | |
| neopolydactyla | | ●●● | ● |
| polydactylon | ● | ● | ●●● |
| praetextata | | ● | ● |
| Phaeophyscia | | | |
| orbicularis | | ○ | ●○ |
| rubropulchra | | ●● | ○ |
| Phylliscum | | | |
| demangeoni | | | ●○ |
| Physcia | | | |
| adscendens | | | ● |
| aipolia | ● | | |
| caesia | | ○ | |
| dubia | | | ●○ |
| millegrana | | | ○ |
| phaea | | ● | |
| stellaris | ● | ●○ | ○ |
| subtilis | ○ | | ○ |
| tenella var. marina | | ●○ | |
| Physconia | | | |
| detersa | | ● | |
| grumosa | ● | ● | ● |
| Placynthium | | | |
| flabellosum | | | ●○ |
| nigrum | | ● | |
| Platismatia | | | |
| glauca | ● | ●● | ○ |
| tuckermanii | ●● | ●●● | ● |
| Racodium | | | |
| rupestre | | | ● |
| Ramalina | | | |
| americana | | ●●○ | ●○ |
| dilacerata | ●●○ | ●○ | ● |
| farinacea | | ● | ●○ |
| intermedia | ● | ●○ | ● |
| roesleri | ● | ●○ | ●○ |
| thrausta | ● | | |
| Rhizoplaca | | | |
| subdiscrepans | | | ● |

| | South Shore | | |
|---|---|---|---|
| Macrolichen species | Shelburne | Queens | Lunenburg |
| Sphaerophorus | | | |
| fragilis | | | ● |
| globosus | ● | ●● | ●○ |
| Stereocaulon | | | |
| condensatum | ●○ | | |
| dactyllophyllum | ● | ● | |
| intermedium | | ● | |
| paschale | | | ●○ |
| pileatum | ○ | | |
| tomentosum | ●● | | |
| Sticta | | | |
| fuliginosa | ●●●○○ | ○○ | ●○ |
| limbata | ○ | | ● |
| Tuckermanopsis | | | |
| americana | ● | ●○ | ●●○ |
| ciliaris | | | ● |
| orbata | ● | ● | ● |
| sepincola | | ● | ○ |
| Umbilicaria | | | |
| deusta | ● | | ● |
| mammulata | ●● | ●● | |
| muehlenbergii | ● | ● | ●●● |
| polyrrhiza | | ● | |
| Usnea | | | |
| ceratina | ● | | ●●○ |
| chaetophora | | ○ | |
| cornuta | ●○ | ●○ | |
| filipendula | ● | ● | |
| flammea | ● | ● | ○ |
| flavocardia | ● | ● | |
| fragilescens var. mollis | | ● | |
| fulvoreagens | ● | | ● |
| glabrata | | | ●○ |
| glabrescens | | ●○ | |
| hirta | ●○ | ● | |
| longissima | | | ● |
| macaronesica | | | ●○ |
| merrillii | ○● | | ● |
| rubicunda | ● | ● | ●○ |
| scabrata | | | |
| schadenbergiana | ●○ | ●○ | ● |
| silesiaca | ● | ●● | |
| strigosa | ●●●● | ● | ●●●○ |
| subfloridana | ●● | ● | ● |
| subrubicunda | | | ●○ |
| subscabrosa | ● | ● | ●○ |
| trichodea | ●●○○ | ●●○ | ● |

| | South Shore | | |
|---|---|---|---|
| **Macrolichen species** | **Shelburne** | **Queens** | **Lunenburg** |
| **Vahliella** | | | |
| **leucophaea** | | ○ | |
| **Vulpicida** | | | |
| **pinastri** | ● | | ● |
| **Xanthoparmelia** | | | |
| **conspersa** | ●● | ●○ | |
| **cumberlandia** | | ●○ | |
| **mougeotii** | ● | ●○ | |
| **viriduloumbrina** | | | ●● |
| **Xanthoria** | | | |
| **elegans** | | ● | |
| **parietina** | ● | ●● | ●● |
| **polycarpa** | | | ○ |
| | | | |

## Eastern Shore/ Halifax: Halifax, Guysborough counties

Halifax County (HRM) contains the population hub of the province: the provincial capital, the largest port, and urban/suburban sprawl that extends for 20-30 kilometers in all directions. It also contains a rocky coastline, shoreline cliffs and extensive exposed coastal barrens over granite in the west, with granite barrens extending inland. Linear valleys followed by rivers lie to the east, with many small to medium lakes, tidal marshes and barachois beaches, cool, coastal white spruce/fir fog forests and many small islands. The interior Halifax County boundary includes gypsum and limestone quarries, open rolling hills covered with farmland and hardwood dominated forests.
Guysborough County is sparsely populated. It contains extensive black spruce bogs, long inlets, coastal bluffs and white spruce/fir forests. In the eastern part, the forests become exposed granite bedrock barrens along the Atlantic coast. Once into the Chedabucto Bay, barrens and semi-barrens are interspersed with bogs and low hardwood ridges (C.D.Howe in Fernow 1912) which become 200 m high cliffs along the western side of the Strait of Canso.

| | Eastern Shore/Halifax | | | |
|---|---|---|---|---|
| Macrolichen species | Halifax | Sable Isl. | Guysborough | Scatarie Isl. |
| Alectoria | | | | |
| sarmentosa | ●○ | | ●○ | ● |
| Anaptychia | | | | |
| palmulata | ●○ | | ●○ | |
| Anzia | | | | |
| colpodes | | | ● | |
| Arctoparmelia | | | | |
| centrifuga | ●●●○ | | | |
| incurva | ●○ | | ○ | |
| Baeomyces | | | | |
| rufus | ●●● | | | |
| Bryoria | | | | |
| capillaris | ● | | | |
| furcellata | ●●● | | ● | |
| fuscescens | ●●○ | ● | | |
| nadvornikiana | ●○ | | | |
| nitidula | ● | | | |
| trichodes ssp americana | ●●● | | ● | ● |
| trichodes ssp trichodes | ●●●○ | | ● | |
| Cetraria | | | | |
| aculeata | ●●●● | ●● | | |
| islandica ssp crispiformis | | ● | | ● |
| muricata | ●● | ● | ○ | |
| Cetrelia | | | | |
| chicitae | ●●●○○ | | ○ | |
| olivetorum | ○ | | ●○ | |
| Cladonia | | | | |
| albonigra | | | ○ | |
| arbuscula | ●●○ | ●● | ● | |
| arbuscula ssp.mitis | ●●○ | ●● | | |
| boryi | ●●●○ | ●● | ●● | |
| caespiticia | | ●● | | |
| cariosa | ○ | | ● | |
| cenotea | ●●○ | | ● | ● |
| chlorophaea | | ● | ●● | ● |
| coccifera | ●○ | | | |
| conspicua | | ● | | |
| crispata | ●● | ●●● | ●○ | ● |
| cristatella | ● ●● | ●● | ●● | |
| deformis | ● | | | |
| digitata | | | ● | ● |
| farinacea | ●○ | ●● | | |
| fimbriata | | ●●● | ●● | |
| floerkeana | ● | | | |
| furcata | ●●○ | | ● | |

| | Eastern Shore/Halifax | | | |
|---|---|---|---|---|
| Macrolichen species | Halifax | Sable Isl. | Guysborough | Scatarie Isl. |
| gracilis ssp gracilis | ●○ | | ● | |
| gracilis ssp turbinata | ●● | ● | ● | |
| incrassata | ● | ●● | ● | |
| labradorica | | | ● | |
| macilenta var. bacillaris | ●○ | | | |
| mateocyatha | ●●○ | | | |
| maxima | ●●● | | ○ | |
| merochlorophaea | | | | ● |
| metacorallifera | ● | | | |
| multiformis | ● | ●● | ● | |
| norvegica | | | | |
| ochrochlora | ●○ | | ●○ | |
| oricola | ●○ | ● | | |
| parasitica | ● | | | |
| pleurota | ●● | | ●○ | |
| pyxidata | | ●● | | |
| ramulosa | ●○ | ●● | | |
| rangiferina | ●●○ | ●●● | ● | |
| rei | | ●● | ● | |
| scabriuscula | ● | ●● | | ● |
| squamosa | ●●●○○ | | | |
| stellaris | ●●●○ | ●● | ○ | |
| strepsilis | ●●○ | | | ● |
| stygia | ○ | | ● | ● |
| subulata | | ●● | | |
| sulphurina | | ● | | |
| terrae-novae | ●●○ | ●○ | ●○ | |
| turgida | ●○ | ●● | ● | |
| uncialis | ●● | | | |
| verticillata | ●●●○ | ● | ●● | |
| Coccocarpia | | | | |
| palmicola | ●●○ | | ●○ | ● |
| Collema | | | | |
| furfuraceum | ○ | | ● | |
| limosum | ●○ | | | |
| leptaleum | ●○ | | | |
| nigrescens | ○ | | ○ | |
| occultatum | ○ | | | |
| subflaccidum | ●●○○ | | ●○ | |
| tenax | ● | | | |
| Degelia | | | | |
| plumbea | ●●○○ | | ● | |
| Imshaugia | | | | |
| aleurites | | | ● | ● |
| placarodia | ● | | ● | |

| | Eastern Shore/Halifax | | | |
|---|---|---|---|---|
| Macrolichen species | Halifax | Sable Isl. | Guysborough | Scatarie Isl. |
| Lasallia | | | | |
| papulosa | ●●●○○ | | ○ | |
| Leptogium | | | | |
| corticola | ●○○ | | | ● |
| cyanescens | ●●○○○ | | ●●○○ | |
| laceroides | ●○○ | | ●○ | |
| Lichina | | | | |
| confinis | ●●○ | | | |
| Lobaria | | | | |
| pulmonaria | ●●●○ | ● | ●○ | |
| quercizans | ●●● | | ○ | |
| scrobiculata | ●●●○ | ●● | ●○ | |
| Melanelia | | | | |
| disjuncta | ● | | | |
| panniformis | ●○ | | | |
| sorediata | ○ | | | |
| Melanelixia | | | | |
| fuliginosa | ●○ | | ● | |
| subaurifera | | ● | | |
| Menegazzia | | | | |
| subsimilis | ○ | | ○ | |
| terebrata | ○ | | ● | |
| Moelleropsis | | | | |
| nebulosa ssp. frullaniae | ●○ | | ●○ | |
| Nephroma | | | | |
| bellum | ● | | | |
| helveticum | ●●●○○○ | | ○ | |
| laevigatum | ●●○ | ● | ● | |
| parile | ●○○ | | ● | |
| resupinatum | ● | | | |
| Normandina | | | | |
| pulchella | ●○ | | ○ | |
| Pannaria | | | | |
| conoplea | ●○○ | | ○ | |
| rubiginosa | ● | | ● | |
| Parmelia | | | | |
| omphalodes | ●○ | | | |
| saxatilis | ●●○ | ●● | ● | |
| squarrosa | ●●○○ | ●● | ● | |
| sulcata | ●●●○ | ● | ●○ | |
| Parmeliella | | | | |
| appalachensis | ●○ | | | |
| parvula | | | ● | |
| triptophylla | ●● | | ● | |
| Parmelinopsis | | | | |
| minarum | ● | | | |

| | Eastern Shore/Halifax | | | |
|---|---|---|---|---|
| Macrolichen species | Halifax | Sable Isl. | Guysborough | Scatarie Isl. |
| Parmeliopsis | | | | |
| capitata | ●●○ | | ● | |
| hyperopta | | ● | ○ | |
| Parmotrema | | | | |
| crinitum | ○○ | | ● | |
| Peltigera | | | | |
| aphthosa | ●○○ | | ●○ | |
| canina | ○ | | | |
| collina | | | ●○ | |
| degenii | ● | | | |
| elisabethae | ● | | | |
| evansiana | | | | ● |
| horizontalis | ●● | | | |
| hydrothyria | | | ● | |
| hymenina | ● | ● | | |
| leucophlebia | | | ○ | |
| membranacea | ●○○ | | ● | ● |
| neopolydactyla | ● | ● | ● | |
| ponojensis | ● | | | |
| polydactylon | ● | | ● | |
| praetextata | | ● | | |
| Phaeophyscia | | | | |
| orbicularis | ○ | ●● | | |
| rubropulchra | ●○ | | ● | |
| Physcia | | | | |
| adscendens | ●○ | ●● | ● | |
| caesia | ● | | | |
| millegrana | ●○ | ● | | |
| stellaris | ●●○ | | | |
| subtilis | ● | | | |
| tenella var. marina | ● | ●● | ● | |
| Physconia | | | | |
| detersa | ○ | | ●○ | |
| Placidium | | | | |
| squamulosum | ● | | | |
| Placynthium | | | | |
| flabellosum | ● | | | |
| nigrum | ●○ | | | |
| Platismatia | | | | |
| glauca | ●●●○ | ●● | ●○ | |
| tuckermanii | ●●● | | ● | |
| Polychidium | | | | |
| muscicola | | | ● | |
| Protopannaria | | | | |
| pezizoides | ○ | | | |
| Pseudevernia | | | | |
| cladonia | | | ● | |

| | Eastern Shore/Halifax | | | |
|---|---|---|---|---|
| Macrolichen species | Halifax | Sable Isl. | Guysborough | Scatarie Isl. |
| Pseudocyphellaria | | | | |
| perpetua | ●●●○ | | ●○ | |
| Punctelia | | | | |
| appalachensis | | | | |
| rudecta | ● ○ | | ●○ | |
| Pycnothelia | | | | |
| papillaria | ●● | | ●● | |
| Pyxine | | | | |
| sorediata | | | ● | |
| Racodium | | | | |
| rupestre | ● | | | |
| Ramalina | | | | |
| americana | ●○ | ●● | | |
| dilacerata | ●●○ | | ● | |
| farinacea | ●○ | ●● | | |
| intermedia | ●●○ | | | |
| roesleri | ●●○ | ● | ● | |
| thrausta | ●○ | | | |
| Rhizoplaca | | | | |
| subdiscrepans | | | | ● |
| Sphaerophorus | | | | |
| fragilis | ●●●○ | | | ● |
| globosus | ●● | | ●●○ | |
| Stereocaulon | | | | |
| dactyllophyllum | ●● | | ●● | |
| glaucescens | ● | | | |
| grande | | | | |
| pileatum | | | ● | |
| saxatile | ● | | | |
| tomentosum | | | ● | |
| Sticta | | | | |
| fuliginosa | ●●○ | | ● | |
| Tuckermanopsis | | | | |
| americana | ●● | ●● | ● | ● |
| orbata | ● | | ● | |
| Umbilicaria | | | | |
| mammulata | ●●● | | | |
| muehlenbergii | ●●●●●○ | | | ● |
| Usnea | | | | |
| ceratina | | | | ● |
| cornuta | ● | ●● | ● | ● |
| filipendula | ●●○ | ●● | | |
| flammea | | ●○ | | |
| flavocardia | ●● | | | |
| fragilescens var. mollis | ● | | | |
| fulvoreagens | ●● | | ○ | |

| | Eastern Shore/Halifax | | | |
|---|---|---|---|---|
| **Macrolichen species** | **Halifax** | **Sable Isl.** | **Guysborough** | **Scatarie Isl.** |
| **longissima** | ●●●○ | ●● | ○ ● | |
| **macaronesica** | | | | ● |
| **merrillii** | | | ● | |
| **mutabilis** | ● | | | |
| **scabrata** | ● | | | |
| **schadenbergiana** | ●● | | | |
| **silesiaca** | ●●○ | | ○ | |
| **strigosa** | ●●●● | | | |
| **subfloridana** | ●● | ●● | | |
| **subscabrosa** | ●● | | | |
| **substerilis** | | | ● | |
| **Vulpicida** | | | | |
| **pinastri** | ●● | | ●○ | |
| **Xanthoparmelia** | | | | |
| **conspersa** | ●●○ | | | |
| **cumberlandia** | ●●● | | | |
| **plittii** | ● | | | |
| **viriduloumbrina** | ●● | | | |
| **Xanthoria** | | | | |
| **elegans** | ●● | | | |
| **parietina** | ●○ | ● | ● | |
| **polycarpa** | ●● | ●● | | |

## Northern: Cumberland, Colchester, Pictou, Antigonish counties

Cumberland and Colchester counties have two coastlines: Abruptly steep basalt and sandstone headlands on the cold and sometimes dramatically foggy Fundy side, and low, warm-water beaches and tidal marshes in the rolling plain on the Northumberland Strait, where farming and cottage-country occur. Hilly deciduous-dominated uplands in the interior send rivers and streams north into the Strait and south into the Bay of Fundy. They encompass some of province's higher elevations outside Cape Breton, particularly in the Cobequid range (to 360m) in Cumberland County. The plain and the upland hills extend through the two counties into Pictou County, where the interior county boundaries lie on lower rounded hills of farmland and upper elevation hardwoods. Bottomland intervales are common. Toward the coast through Pictou and Antigonish counties, scattered limestone and gypsum deposits occur. Coal was mined in western Cumberland County (Springhill, Joggins) and also in north-central Pictou County. The elevations rise again into the steep-sided valleys of mixed conifer-hardwood forests in the Pictou–Antigonish highlands, climbing to 300 meters. Interior uplands reach over 200m and are dominated by hardwoods.

| | Northern | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Cumberland | Isle Haute | Colchester | Pictou | Antigonish |
| Ahtiana | | | | | |
| aurescens | ● | | | | |
| Alectoria | | | | | |
| fallacina | ●○ | | | | |
| sarmentosa | ●● | | ○ | | |
| Anaptychia | | | | | |
| palmulata | ●●○ | | ●○ | ● | ○ |
| Anzia | | | | | |
| colpodes | | | ● | | |
| Arctoparmelia | | | | | |
| incurva | | | | | ○ |
| Baeomyces | | | | | |
| rufus | ●○ | | | ○ | |
| Bryoria | | | | | |
| capillaris | ● | | ●●● | | ○ |
| furcellata | ●○ | | ● | ● | ○ |
| fuscescens | | | | ○ | |
| implexa | | | ● | | |
| nadvornikiana | ○○ | | ○ | | ○ |
| trichodes ssp americana | ●●○ | | ● | | ○ |
| trichodes ssp trichodes | ●○ | | ● | | ○ |
| Candelaria | | | | | |
| concolor | ● | | | | |
| Cetraria | | | | | |
| aculeata | | | | | ●○ |
| Cetrelia | | | | | |
| chicitae | ●● | | ●●○ | | |
| monachorum | ●● | | | | |
| olivetorum | ●● | | ●●○○ | ○ | |
| Cladonia | | | | | |
| arbuscula | ●○○ | | ●●○ | ●●○ | ○○ |
| arbuscula ssp.mitis | | | ●● | | ●○○ |
| boryi | | | | ● | ○ |
| caespiticia | ● | | ● | ○ | |
| cariosa | | | | | ○ |
| carneola | | | ○ | | |
| cenotea | ● | | ● | | ●○ |
| chlorophaea | ● | | ●●● | | ●●○ |
| coniocraea | ● | | ●● | ○ | ○ |
| conista | ● | | | | |
| cornuta ssp. cornuta | ● | | ● | | |
| crispata | ● | | | ●●●○ | |
| cristatella | | | ●●●○ | ●●○ | ●○○ |
| deformis | | | ● | | |
| digitata | ● | | | | |

| | Northern | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Cumberland | Isle Haute | Colchester | Pictou | Antigonish |
| farinacea | ● | | | | ○ |
| fimbriata | ● | | ● | | ●○ |
| floerkeana | | | ● | | |
| furcata | ●● | | ●○ | ○ | ○○ |
| gracilis ssp gracilis | | | ● | | ● |
| gracilis ssp turbinata | ●○ | | ● | ○ | ●● |
| gracilis ssp vulnerata | | | ● | | |
| grayi | | | ● | | |
| macilenta var. bacillaris | ● | | | | |
| maxima | ●○ | | ●● | ● | ○ |
| multiformis | | | ●●○ | ○ | ●● |
| norvegica | ● | | ● | | |
| ochrochlora | ● | | ● | | ○○ |
| oricola | ○ | | | | |
| parasitica | | | ● | | |
| phyllophora | | | | | ●○ |
| pleurota | ● | | | ●○ | |
| pyxidata | | | | | ●○ |
| ramulosa | | | ● | | |
| rangiferina | ●●○ | | ●●●○ | ● | ●○○ |
| rei | | | ● | | ● |
| scabriuscula | ● | | ● | ● | ●●○ |
| squamosa | ●● | | ●● | ○ | ○ |
| stellaris | ●● | | ●● | ● | ○ |
| strepsilis | | | | | ○ |
| stygia | ●○ | | | | |
| terrae-novae | | | | | ○ |
| turgida | | | ●● | ○ | |
| uncialis | ○ | | ● | | ○○ |
| verticillata | ●● | | ●● | | ●○ |
| Collema | | | | | |
| flaccidum | | | ● | | |
| furfuraceum | ●○ | | ●○○ | | |
| fuscovirens | ● | | | | |
| leptaleum | ● | | ● | ○ | |
| subflaccidum | ●●○ | | ●○○ | ●○○ | ○ |
| Degelia | | | | | |
| plumbea | ●○ | | | | |
| Dendriscocaulon | | | | | |
| intricatulum | ● | | | | |
| Dermatocarpon | | | | | |
| luridum | | | ●● | | |
| Dibaeis | | | | | |
| baeomyces | ●● | | ●●●○ | ●○ | ○ |
| Evernia | | | | | |
| mesomorpha | ●○○ | | | | ●○ |
| prunastri | | | ○ | ●○ | ● |

| | Northern | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Cumberland | Isle Haute | Colchester | Pictou | Antigonish |
| Everniastrum | | | | | |
| catawbiense | ●●○○ | | | | |
| Flavoparmelia | | | | | |
| caperata | ●● | | | ○ | ○ |
| Fuscopannaria | | | | | |
| ahlneri | ● | | | | |
| saubinetii | ● | | | | |
| Heterodermia | | | | | |
| galactophylla | | | ● | | |
| neglecta | ●●○ | | | | |
| speciosa | ●●○ | | ● | ○ | |
| squamulosa | ●● | | | | |
| Hypogymnia | | | | | |
| incurvoides | ●●○ | | | | ○ |
| krogiae | ●● | | ●○ | ● | ○ |
| physodes | ●● | | ●● | ○ | ●○○ |
| tubulosa | ●● | | ●○ | | ○○ |
| vittata | ● | | | | |
| Hypotrachyna | | | | | |
| afrorevoluta | ●●○ | | | | |
| revoluta | ○ | | ● | | |
| Imshaugia | | | | | |
| aleurites | ●● | | | | |
| Lasallia | | | | | |
| papulosa | ○ | | | | ○ |
| Leptogium | | | | | |
| cyanescens | ●●●○ | | ●●●●●○ | ○ | ○ |
| imbricatum | ●○ | | | | |
| laceroides | ●●○○ | | ●○ | | |
| lichenoides | | | | | ● |
| millegranum | | | ○ | | |
| saturninum | ●● | | ○ | | |
| subtile | ○ | | | | |
| teretiusculum | ● | | | | |
| Lobaria | | | | | |
| pulmonaria | ●●● | | ●●● | ●●○○ | ●○ |
| quercizans | ●● | | ●●●● | ●○○ | ○ |
| scrobiculata | ● | | ●●○ | ○○ | ○ |
| Melanelixia | | | | | |
| fuliginosa | ●●○ | | ●○ | ○ | ○ |
| subaurifera | ●●○ | | ●●○ | ●○ | ●○ |
| Melanohalea | | | | | |
| olivacea | ●● | | ●● | ● | |
| septentrionalis | ● | | ● | | |
| Menegazzia | | | | | |
| subsimilis | ●●● | | | | |
| terebrata | ● | | ● | | |

| | Northern | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Cumberland | Isle Haute | Colchester | Pictou | Antigonish |
| Myelochroa | | | | | |
| aurulenta | ●● | | ● | | |
| galbina | ● | | ●●● | | |
| Nephroma | | | | | |
| bellum | ●○ | | ●○ | | ○ |
| helveticum | ●● | | ●● | | |
| laevigatum | ● | | | ●○○ | ○ |
| parile | ●○ | | ● | | ●○ |
| Normandina | | | | | |
| pulchella | ●●○○ | | ○ | | |
| Pannaria | | | | | |
| conoplea | ●●○ | | ● | | |
| rubiginosa | ●●○ | | | ● | |
| Parmelia | | | | | |
| fertilis | ● | | ●●○ | ● | |
| saxatilis | ●● | | ● | | |
| squarrosa | ●●●○ | | ●●●● | ●○○ | ○○ |
| sulcata | ●○ | | ●●● | ●○ | ●○ |
| Parmeliella | | | | | |
| appalachensis | ○ | | | | |
| triptophylla | ●●○ | | ●●○ | ●○○ | ○ |
| Parmelinopsis | | | | | |
| minarum | ●○ | | | | |
| Parmeliopsis | | | | | |
| capitata | ● | | ○ | ○ | ●○ |
| hyperopta | ● | | | ● | |
| Parmotrema | | | | | |
| crinitum | ●●○ | | ● | | |
| Peltigera | | | | | |
| aphthosa | ●● | | ●●●●●○○ | | ○ |
| canina | | | ●●● | ○ | ●● |
| degenii | ●●● | | ○ | | |
| didactyla | ○ | | | ● | ● |
| elisabethae | ● | | ● | | ●○ |
| evansiana | ●● | | ●●●○○ | | |
| horizontalis | ●● | | ●● | ●○ | ○ |
| hydrothyria | ●○ | | ○○ | | |
| hymenina | ○ | | | | |
| leucophlebia | ●○ | | ● | ○○ | |
| membranacea | ●●○○ | | ●● | ● | ●○ |
| neckeri | | | ●○ | | |
| neopolydactyla | ●○ | | ● | | ○ |
| polydactylon | ●●○ | | ●●● | | |
| praetextata | ● | | ●● | | |
| rufescens | | | | | ○ |

| | Northern | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Cumberland | Isle Haute | Colchester | Pictou | Antigonish |
| Phaeophyscia | | | | | |
| adiastola | ● | | | | |
| orbicularis | | | | | ○ |
| pusilloides | ●● | | ● | | |
| rubropulchra | ● | | ●● | ○ | ○ |
| Physcia | | | | | |
| adscendens | ● | | ●● | ○ | |
| aipolia | ● | | | | ○ |
| millegrana | ● | | ○ | ○ | |
| phaea | ○ | | | | |
| stellaris | ●● | | ●●●○ | ○ | ○ |
| Physconia | | | | | |
| detersa | ●●○ | | ●○○ | | |
| grumosa | ●● | | ●○ | | |
| Platismatia | | | | | |
| glauca | ●●○ | | ●● | ○ | ○ |
| tuckermanii | ●● | | ○ | ○ | ○ |
| Protopannaria | | | | | |
| pezizoides | ● | | | ●○ | ●○ |
| Pseudevernia | | | | | |
| cladonia | ● | | | | |
| Pseudocyphellaria | | | | | |
| perpetua | ●○ | | ● | | |
| Punctelia | | | | | |
| appalachensis | ●●●○ | | ●○ | | |
| rudecta | ●●○ | | ●●●○ | ●○ | ○ |
| Pycnothelia | | | | | |
| papillaria | | | ● | ● | |
| Pyxine | | | | | |
| sorediata | ●●○ | | ●●●○○ | ● | |
| Racodium | | | | | |
| rupestre | ○ | | | | |
| Ramalina | | | | | |
| americana | ●●○ | | ●○ | ○ | ○ |
| dilacerata | ● | | ○● | ○ | ● |
| farinacea | ●●●○○ | | ● | ●○ | ●○ |
| intermedia | ● | | ● | | |
| obtusata | | | ●○ | | |
| roesleri | ●●○○ | ● | ●○ | ●○○ | |
| thrausta | ●●○ | | ○ | | |
| Sphaerophorus | | | | | |
| globosus | ●●○ | | ●● | ○ | |
| Stereocaulon | | | | | |
| condensatum | | | | ● | |
| dactyllophyllum | ● | | ●●● | ○ | |
| dactyllophyllum var.occidentale | | | ● | | |

| | Northern | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Cumberland | Isle Haute | Colchester | Pictou | Antigonish |
| intermedium | | | | | ○ |
| paschale | | | ●●● | | ● |
| pileatum | | | ● | ○ | |
| saxatile | ● | | ● | | |
| tomentosum | | | ●●● | ○ | ○ |
| Sticta | | | | | |
| fuliginosa | ●●○ | | ●● | | |
| limbata | ●○ | | | | |
| Tuckermanopsis | | | | | |
| americana | ●● | | ● | ● | ○ |
| ciliaris | ● | | ○ | ● | |
| orbata | ● | | | ○ | ●○ |
| Umbilicaria | | | | | |
| mammulata | | | ● | | |
| muehlenbergii | | | | ○ | |
| Usnocetraria | | | | | |
| oakesiana | ●● | | ○ | | |
| Usnea | | | | | |
| ceratina | ● | | ● | | |
| chaetophora | ● | | | | |
| cornuta | ● | | ● | | ○ |
| filipendula | ●○ | | ●● | | ○ |
| flammea | ● | | | | |
| fulvoreagens | ● | | ● | | ○ |
| glabrata | ● | | | | |
| glabrescens | ○ | | | | |
| hirta | ● | | | | ● |
| longissima | ● | | ● | | |
| macaronesica | ●○ | | | | |
| merrillii | ● | | | | |
| scabrata | ● | | | | |
| schadenbergiana | ● | | | | |
| silesiaca | ● | | | | |
| strigosa | ● | | ○ | ○ | ○ |
| subfloridana | ●○ | | ● | | ●○ |
| subscabrosa | ● | | ● | | |
| trichodea | ●○ | | ●● | | ○ |
| Vahliella | | | | | |
| leucophaea | ○ | | ○ | | |
| Vulpicida | | | | | |
| pinastri | ● | | ● | ○ | |
| Xanthoparmelia | | | | | |
| cumberlandia | ● | | | | |
| plittii | ○ | | | | |
| Xanthoria | | | | | |
| parietina | ●● | | ●●●○ | ○ | ○ |
| polycarpa | | | | ○ | |

## Cape Breton Island: Inverness, Victoria, Cape Breton, Richmond counties

Cape Breton Island is the boreal forest region of the province. Linked to the mainland by a causeway since 1955, it contains the province's highest elevations, to just over 500 m in the Highlands, and some of its harshest climate. The establishment of the causeway produced ice free waters on the southeastern side of the causeway with lasting environmental changes as a result.

The coastal fringe ranges from steep cliffs that rise to 100 m out of the sea, to a low-lying plain on the far northern coast. Inverness County includes the Northumberland coast with its warm summer waters and ice-covered winters; Victoria County's coast is exposed on the east to the Cabot Strait. Their interior boundaries bisect the Cape Breton Highlands. In the north, mighty winds, cold temperatures, a short summer and the province's highest precipitation across the high plateau in the Highlands create stunted forest and many bogs and barrens. Deep valleys flow down toward the coasts, forming canyons that fill with fog and have many north-facing walls. Rare arctic-alpine plants have been found on some of the northern plateaus and cliffs (Smith & Erskine 1954). Talus slopes and deciduous forests dominate the valleys. Small population clusters are sparsely scattered around the coast. Off the far northern tip of Cape Breton lies St. Paul Island, where Erskine collected in the 1950s. Nova Scotia Department of Natural Resources staff recently added to lichen species known from St. Paul.

Where the land slopes to the south toward the uplands and lowlands of the Bras d'Or Lake shores, tillable land and habitation increase. Gypsum deposits and karst topography are most frequent south of the Highlands, though on the far northern coast there were substantial quarries, as well as along the Northumberland Strait.

Famous for coal mining, the slightly undulating, poorly drained terrain in Cape Breton County includes higher disturbance than most of the rest of the island. Climate extremes are modified by the Atlantic Ocean and the land mass to the west and north. Large bays and harbours often have rocky barrier beaches. Coastal forests on the east and south are white spruce, while inland black spruce bogs are frequent. Sea cliffs (to 20 m) and exposed headlands occur mostly in the south, along Gabarus Bay, but extend into Richmond County along the Atlantic where in the interior, bogs, swamps and wandering streams are numerous. The sheltered Chedabucto Bay is surrounded on its eastern side with coastal white spruce/balsam fir forests and low drumlins, gravel beaches and salt marshes. One of the province's major pulp mills and biomass power generating stations is located on the eastern flank of the Bay, up the channel toward the Canso causeway.

| | Cape Breton Island | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Inverness | Victoria | St.Paul I. | Cape Breton | Richmond |
| Alectoria | | | | | |
| fallacina | ● | ● | | | |
| sarmentosa | ●●○ | ●● | ● | ●●● | ●●○○ |
| Anaptychia | | | | | |
| palmulata | | ● | | | |
| crinalis | | | | ●●●● | |
| Anzia | | | | | |
| colpodes | ● | | | | |
| Arctoparmelia | | | | | |
| centrifuga | ● | ●● | | ● | ● |
| incurva | ● | ●● | | ●● | ● |
| Baeomyces | | | | | |
| rufus | ● | ●●● | | | ● |
| Bryoria | | | | | |
| capillaris | ● | ●○ | | | |
| furcellata | | ● | | ● | ● |
| fuscescens | ● | | | ●●○ | |
| nadvornikiana | | | | | ○ |
| trichodes ssp americana | ● | ● | | ● | ●○ |
| trichodes ssp trichodes | | ●● | | ● | |
| Cavernularia | | | | | |
| hultenii | | | | ● | |
| Cetraria | | | | | |
| aculeata | ● | ●● | ●○ | ●●● | ● |
| islandica ssp crispiformis | ●● | ●●● | | ●○ | |
| laevigata | | | | ● | |
| muricata | | ●● | ○ | ● | |
| Cetrariella | | | | | |
| delisei | | ● | | | |
| Cetrelia | | | | | |
| chicitae | ● | ● | | | |
| olivetorum | ●●● | ● | | ● | ●○ |
| Cladonia | | | | | |
| arbuscula | ●●● | ●●●● | ●○ | ● | ● |
| arbuscula ssp.mitis | ●●● | ●●● | ●●○ | ●● | |
| borealis | | | ○ | ● | |
| boryi | ●● | ●● | ○ | ●●● | ● |
| brevis | | | | | ○ |
| caespiticia | ● | | | | |
| cariosa | | ●●○ | | ●● | |
| carneola | | ● | | | |
| cenotea | ● | ●●● | | ● | ● |

| | Cape Breton Island | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Inverness | Victoria | St.Paul I. | Cape Breton | Richmond |
| chlorophaea | ●● | ●●● | ○ | ● | |
| coccifera | ● | ●● | | ● | ● |
| coniocraea | | ●● | | ● | ○ |
| cornuta ssp. cornuta | ● | ●● | | ● | |
| cornuta ssp.groenlandica | | ● | | | |
| crispata | | ●●●● | | ●● | |
| cristatella | ●● | ● | ● | ● | ● |
| deformis | | ●● | | ●● | |
| digitata | ● | ● | ●● | ● | ● |
| farinacea | | ● | ● | | |
| fimbriata | ● | ● | | ● | ● |
| furcata | ● | ● | ● | ● | ● |
| gracilis ssp gracilis | | ●●● | ● | ●● | |
| gracilis ssp elongata | | | ● | | |
| gracilis ssp turbinata | ●● | ●●●● | | ●● | |
| grayi | | | | | ●● |
| macilenta var. bacillaris | | ● | | ● | |
| macroceras | | | | ● | |
| maxima | ●●● | ●● | ○ | ● | ● |
| merochlorophaea | | | | | ● |
| multiformis | ●●○ | ●●● | | ● | ● |
| ochrochlora | ● | ●●● | ○ | ● | ● |
| oricola | | | ○ | | |
| phyllophora | ● | ● | | ● | |
| pleurota | ●● | ●●●● | | ● | |
| pocillum | | ● | | ● | |
| pyxidata | ●○ | ●●● | | ● | |
| rangiferina | ●●○ | ●●●● | ○ | ●● | ● |
| rappii | | | | ● | |
| rei | ●○ | ●● | | ●● | ● |
| scabriuscula | ●●● | ●●● | | ● | ●●● |
| squamosa | ●● | ●●● | ○ | ● | ● |
| stellaris | ●● | ●●●● | ○ | ●● | ● |
| strepsilis | ● | ●● | | ● | |
| stygia | | | | ●○ | ● |
| sulphurina | | ●● | | | |
| terrae-novae | ●● | | ○ | ● | ● |
| turgida | ●● | ● | ○ | ●● | |
| uncialis | ●● | ●● | ●○ | ●●● | ●● |
| verticillata | ●● | ● | | ●● | |
| wainioi | ●● | ●●. | | | |
| Coccocarpia | | | | | |
| palmicola | | | | | ●○ |

| | Cape Breton Island | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Inverness | Victoria | St.Paul I. | Cape Breton | Richmond |
| Collema | | | | | |
| bachmanianum | | ● | | | |
| crispum | | ○ | | | |
| cristatum | | ●○ | | | |
| furfuraceum | ● | ●○ | | ●○ | ○ |
| leptaleum | | ● | | | |
| subflaccidum | ● | ●○ | | ●●○ | ● |
| Lichina | | | | | |
| confinis | | | | ● | |
| Lobaria | | | | | |
| pulmonaria | ●●● | ●●●●○ | ● | ●○ | ●●●○ |
| ouercizans | ●●●● | ●●○ | | ●○ | ●●○ |
| scrobiculata | ● | ●●○ | | ●○ | ●○ |
| Massalongia | | | | | |
| carnosa | | ●●● | | | |
| Melanelia | | | | | |
| disjuncta | ● | ● | | | |
| hepatizon | | ● | | ● | |
| panniformis | ● | | | ● | |
| sorediata | ● | | | | |
| stygia | ● | | | ● | |
| Melanelixia | | | | | |
| fuliginosa | ●● | ● | | ●●○ | ●○ |
| subaurifera | ●● | ●●● | | | ● |
| Melanohalea | | | | | |
| olivacea | | | | ● | |
| Menegazzia | | | | | |
| subsimilis | | | | | ● |
| Myelochroa | | | | | |
| galbina | | ● | | | |
| Nephroma | | | | | |
| arcticum | ● | ●●● | | | |
| bellum | ● | ●●● | | | ●○ |
| helveticum | | | | | ●○ |
| laevigatum | ●●●○ | ●●●○○ | | ○ | ●○ |
| parile | ●● | ● | | | |
| resupinatum | | ●● | | | |
| Normandina | | | | | |
| pulchella | | | | | ○ |
| Pannaria | | | | | |
| conoplea | | | | | ● |
| rubiginosa | ● | ● | | | |

| | Cape Breton Island | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Inverness | Victoria | St.Paul I. | Cape Breton | Richmond |
| Parmelia | | | | | |
| fertilis | | | | ○ | |
| omphalodes | ● | | | | |
| saxatilis | ● | ●●● | ○ | ●● | |
| squarrosa | ●● | ●● | ○ | ●●○ | ●○○ |
| sulcata | ●● | ●●● | ●●○ | ●● | ● |
| Parmeliella | | | | | |
| parvula | | | | | ● |
| triptophylla | ●●● | ●●○ | | ●●○ | ●○ |
| Parmeliopsis | | | | | |
| ambigua | ● | | | ● | |
| capitata | ● | ● | | ● | ● |
| hyperopta | ● | ● | | | |
| Peltigera | | | | | |
| aphthosa | ●● | ●● | | ● | ●○ |
| canina | ● | ●● | | | |
| collina | | ● | | | ●○ |
| degenii | | | | ● | |
| didactyla | ○ | ● | | ● | |
| elisabethae | ● | ●●● | | ● | |
| horizontalis | ●● | ● | | ● | |
| hydrothyria | | ●● | | | |
| hymenina | ● | | | ● | ●○ |
| leucophlebia | ●● | ●●● | | | |
| malacea | | | | ● | |
| membranacea | ●● | ● | | ●○ | ● |
| neckeri | ● | | | | |
| neopolydactyla | ●● | ●●● | ● | | ● |
| occidentalis | | | ● | | |
| ponojensis | | ● | | | |
| polydactylon | ● | ●● | | ● | |
| praetextata | ●● | ● | | ● | ● |
| rufescens | | ●●●● | | | ● |
| Phaeophyscia | | | | | |
| adiastola | | | | ● | |
| orbicularis | | ● | | | |
| pusilloides | | ●● | | ● | |
| rubropulchra | ●● | ● | | ●○ | ●○ |
| Physcia | | | | | |
| adscendens | ● | | | ● | |
| aipolia | | | | ● | |
| caesia | | | | ● | ● |
| dubia | ● | ● | | ● | |
| millegrana | | ● | | | ● |

| | Cape Breton Island | | | | |
|---|---|---|---|---|---|
| Macrolichen species | Inverness | Victoria | St.Paul I. | Cape Breton | Richmond |
| phaea | | | | | ● |
| stellaris | | ● | | ● | ● |
| subtilis | | | | | |
| tenella | | | | ● | |
| tenella var. marina | | | | ●● | ● |
| Umbilicaria | | | | | |
| americana | | ● | | | |
| deusta | ● | ●● | | ● | |
| hyperborean | ● | ● | | ● | |
| mammulata | ● | | | | |
| muehlenbergii | ● | ●●● | | ● | |
| polyphylla | | ●● | | ● | |
| vellea | ● | | | | |
| Usnea | | | | | |
| chaetophora | | | | | |
| cornuta | | | | ● | ●● |
| fibrillose | | ● | | | |
| filipendula | ●● | ●● | | ● | ●● |
| fulvoreagens | ● | ● | | | |
| longissima | ○ | | | ●●○ | ●● |
| scabrata | ● | ●● | | | |
| schadenbergiana | | | | ● | |
| silesiaca | | ● | | ● | ●● |
| strigosa | ● | ● | | ● | |
| subfloridana | | ●● | | ● | ● |
| trichodea | | ● | | ● | |
| Vahliella | | | | | |
| leucophaea | ● | | | | |
| Vulpicida | | | | | |
| pinastri | ●● | ●● | | ● | |
| Xanthoparmelia | | | | | |
| conspersa | ● | ● | | ●● | |
| cumberlandia | | ● | | | |
| plittii | ● | | | ● | |
| viriduloumbrina | | | | | ● |
| Xanthoria | | | | | |
| elegans | | | | ●● | |
| parietina | ● | ● | | ● | ● |
| polycarpa | ● | ● | | ●● | |

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# Nova Scotia Macrolichen Checklist

**This comprehensive spreadsheet includes 341 macrolichen species arranged alphabetically by genus and species, species authorities, counties arranged alphabetically and a reference specimen for each species which is cited in the last column. Herbarium numbers ending with P are from the Nova Scotia Museum. Other institutional herbarium codes appear in parentheses. Reference specimens from personal collections have no parentheses. Details on numbers of specimens recorded per county or the herbaria/collections where specimens are located are available from the author at museum@gov.ns.ca. Those details are not included for simplicity of viewing and because in many cases, specimen packets contained other species for which there were no county records, but also no listing on the packet. Those specimens might not appear in herbarium databases.**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Islands | | | | | | | | |
| Macrolichen species in NS | Authorities | Annapolis | Antigonish | Cape Breton | Colchester | Cumberland | Digby | Guysborough | Halifax | Hants | Kings | Inverness | Lunenburg | Pictou | Queens | Richmond | Shelburne | Victoria | Yarmouth | Brier Isl. | Isle Haute | Sable Isl. | Scatarie Isl. | Seal Isl. | St.Paul Isl. | Verification specimen |
| **Ahtiana** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **aurescens** | (Tuck.) A.Thell & Randlane | | | | | ● | | | | ●○ | | | ●●○ | | | | | | | | | | | | | **Anderson 775 (039431P)** |
| **Alectoria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **fallacina** | Motyka | | | | | ●○ | | | | | | ● | | | | | | ● | | | | | | | | **Anderson C2 (031706P)** |
| **sarmentosa** | (Ach) Ach. | ● | | ●●● | ○ | ●● | ● | ●○ | ●○ | ● | | ●●○ | ●○○ | | ● | ●●○○ | ○ | ●● | ●○ | | | | ● | ● | ● | **Sneddon 442L (012386P)** |
| **Anaptychia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **palmulata** | (Michx.)Vain. | ○ | ○ | | ●○ | ●●○ | | ●○ | ●○ | | | | ●○ | ● | ●●○○ | | ● | ● | ○ | | | | | | | **Richardson (016707P)** |
| **crinalis** | (Schaerer) Vězda | | | ●●●● | | | | | | | | | | | | | | | | | | | | | | **Sneddon 1957L (012395P)** |
| **Anzia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **colpodes** | (Ach.) Stizenb. | ●●○ | | | ● | | | ● | | | ● | ● | ●○ | | ●●○○ | | ●○ | | ●○ | | | | | | | **LaGreca (016727P)** |
| **Arctoparmelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **centrifuga** | (l.) Hale | ● | | ● | | | ● | | ●●●○ | | ●● | ● | ●●○ | | ●● | ● | | ●● | ●● | | | | | | | **Erskine 998 (012410P)** |
| **incurva** | (Pers.)Hale | | ○ | ●● | | | | ○ | ●○ | | | ● | | | ● | ● | ○ | ●● | ●● | | | | | | | **Sneddon 1951L (012416P)** |
| **Baeomyces** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **rufus** | (Huds.) Rebent. | | | | | ●○ | ● | | ●●● | | | ● | ○ | ○ | ○ | ● | | ●●● | | | | | | | | **Cameron 97- 034 (022452P)** |
| **Bryoria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **capillaris** | (Ach.) Brodo & Hawksw | | ○ | | ●●● | ● | | | ● | | ● | ● | | | ● | | | ●○ | ● | | | | | | | **Cameron 192 (031627P)** |
| **furcellata** | (Fr.) Brodo & Hawksw. | ● | ○ | ● | ● | ●○ | ● | ● | ●●● | ●●○ | ● | | ●○ | ● | ● | ● | ●○○ | ● | ●○ | | | | | | | **Erskine 56C2782 (012431P)** |
| **fuscescens** | (Gyeln.) Brodo & Hawksw. | | | ●●○ | | | | | ●●○ | | | ● | | ○ | | | ● | | ○ | | | ● | | | | **Lucas 310 (041294P)** |
| **implexa** | (Hoffm.) Brodo & Hawksw. | | | | ● | | | | | | | | | | | | | | | | | | | | | **A.R.Prince (FH 6240 )** |
| **nadvornikiana** | (Gyeln.) Brodo & Hawksw. | ● | ○ | | ○ | ○○ | | | ●○ | | | | ●○ | | | ○ | | | | | | | | | | **Anderson T5SL10** |
| **nitidula** | (Th. Fr.) Brodo & D. Hawksw | | | | | | | | ● | | | | | | | | | | | | | | | | | **Taschereau PMT B4 (012439P)** |
| **trichodes ssp americana** | (Motyka) Brodo & D. Hawksw. | ● | ○ | ● | ● | ●●○ | ● | ● | ●●● | | | ● | | | ● | ●○ | ● | ● | ● | | | | ● | | | **Taschereau PMT71-3 (012442P)** |
| **trichodes ssp trichodes** | (Motyka) Brodo & D. Hawksw. | ● | ○ | ● | ● | ●○ | ● ● | ● | ●●●○ | ● | | | ●●○ | | ●● | | ● | ●● | ●●○ | | | | | | | **Brodo 19069 (CANL 37713)** |
| **Candelaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **concolor** | (Dicks.) Stein | | | | | ● | | | | | | | | | | | | | | | | | | | | **Harries (NBM FL-07574)** |
| **Cavernularia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **hultenii** | Degel. | | | ● | | | | | | | | | | | | | | | | | | | | | | **Maass WM-001 (015448P)** |
| **Cetraria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **aculeata** | (Schreb.) Fr. | | ●○ | ●●● | | | ● | | ●●●● | | | ● | ● | | | ● | ●●○ | ●● | | | | ●● | | | ●○ | **Erskine 51C1798 (012971P)** |
| **arenaria** | Kärnefelt | | | | | | | | | | ●● | | ● | | | | ●○ | | | | | | | | | **Richardson (16700P)** |
| **islandica ssp crispiformis** | Räsänen | | | ●○ | | | | | | | | ●● | | | | | | ●●● | | | | ● | ● | | | **Sneddon 1634L (012487P)** |
| **laevigata** | Rass | | | ● | | | | | | | | | | | | | | | | | | | | | | **Sneddon 1980L (012497P)** |
| **muricata** | (Ach.) Eckfeldt | | | ● | | | | ○ | ●● | | | | | | | | | ●● | | | | ● | | | ○ | **Lamb 6881(CANL 15764)** |
| **Cetrariella** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **delisei** | (Bory ex Schaer.)Kärnefelt & A.Tibell | | | | | | | | | | | | | | | | | ● | | | | | | | | **Comeau (012496P)** |
| **Cetrelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **chicitae** | (W.L.Culb.)W.L.Culb & C.F.Culb. | | | | ●●○ | ●● | ○ | ○ | ●●●○○ | ● | ●●● | ● | ●○○ | | ●●● | | ○ | ● | ●○ | | | | | | | **Erskine 1067 (012502P)** |
| **monachorum** | Zahlbr.) Culb.& C.Culb.) | | | | | ●● | | | | | | | | | | | | | | | | | | | | **Goward/Clayden (UBC 77-24)** |
| **olivetorum** | (Nyl.) W.L.Culb & C.F.Culb. | | | ● | ●●○○ | ●● | ●○ | ●○ | ○ | | ●●○ | ●●● | ●○ | ○ | ●● | ●○ | ● | ● | ●○ | | | | | | | **Erskine 52C2202 (012503P)** |
| **Cladonia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **albonigra** | Brodo & Ahti | | | | | | | ○ | | | ● | | ○ | | | | | | | | | | | | | **Taschereau (012763P)** |
| **arbuscula** | (Wallr.) Flotow | ● | ○○ | ● | ●●○ | ●○○ | ● | ● | ●●○ | ● | ●●●● | ●●● | ●●○ | ●●○ | ●●● | ● | ●●●○ | ●●●● | ●● | | | ●● | | | ●○ | **Sneddon C1055 (008247P)** |
| **arbuscula ssp.mitis** | (Sandst.) Ruoss | | ●○○ | ●● | ●● | | | | ●●○ | | | ●●● | ● | | ● | | ●● | ●●● | ○ | | | ●● | | | ●●○ | **Sneddon C1056A (012536P)** |
| **borealis** | S. Stenroos | | | ● | | | | | | | | | | | | | | | | | | | | | ○ | **Sneddon 1786I (012720P)** |
| **boryi** | Tuck. | | ○ | ●●● | | | ● | ●● | ●●●○ | ● | ●● | ●● | ●●●○ | ● | ●● | ● | | ●● | ●●○ | | | ●● | | | ○ | **Richardson (016692P)** |
| **brevis** | (Sandst.) Sandst. | | | | | | | | | | | | | | | ○ | | | | | | | | | | **Basquill 3092** |
| **caespiticia** | (Pers.) Flörke | | | | ● | ● | ● | | | | ● | ● | | ○ | ● | | ●● | | ●● | | | ●● | | | | **Richardson 201 (041312P)** |
| **cariosa** | (Ach.) Sprengel | | ○ | ●● | | | | ● | ○ | ○ | ● | | | | | | | ●●○ | ● | | | | | | | **Brodo 19054 (CANL 37710)** |
| **carneola** | (Fr.) Fr. | | | | ○ | | | | | | | | | | | | | ● | | | | | | | | **Scotter 4:6225 (CANL)** |
| **cenotea** | Ach.) Schaerer | | ●○ | ● | ● | ● | | ● | ●●○ | ● | ●●● | ● | | | ● | ● | ●● | ●●● | ●● | | | | ● | | | **Taschereau 67-9 (012709P)** |
| **chlorophaea** | (Flörke ex Sommerf.) Sprengel | | ●●○ | ● | ●●● | ● | ● | ●● | | ○ | ● | ●● | ●○ | | ●●● | | ●●○ | ●●● | ●● | | | ● | ● | | ○ | **Brodo 18875 (CANL 37781)** |
| **coccifera** | (L.) Willd. | | | ● | | | | | ●○ | | | ● | | | | ● | | ●● | | | | | | | | **Taschereau 5-70PMT (012723P)** |
| **coniocraea** | (Flörke) Sprengel | | ○ | ● | ●● | ● | | | | ○ | ● | | ○ | ○ | | ○ | ○ | ●● | ● | | | | | | | **Macoun (CANL 7193)** |
| **conista** | (Nyl.) Robbins | | | | | ● | | | | | | | | | | | | | | | | | | | | **Anderson C1474 (035195P)** |
| **conspicua** | (Ahti) Ahti | | | | | | | | | | | | | | | | | | | | | ● | | | | **Wilson (008223P)** |
| **cornuta ssp. cornuta** | (L.) Hoffm. | | | ● | ● | ● | | | | | ● | ● | | | ● | | | ●● | | | | | | | | **Nichols 0911 (FH 1909)** |
| **cornuta ssp.groenlandica** | (E.Dahl)Ahti | | | | | | | | | | | | | | | | | ● | | | | | | | | **Sneddon 1004L (CBU 1192)** |
| **crispata** | (Ach.) Flotow | ○ | | ●● | | ● | ● | ●○ | ●● | | ●●● | | | ●●●○ | ● | | ●○●●● | ●●●● | ●●●● | | | ●●● | ● | | | **P.Comeau B3 (012736P)** |
| **cristatella** | Tuck. | ●● | ●○○ | ● | ●●●○ | | ● | ●● | ● ●● | ●● | ●● | ●● | ●● | ●●○ | ●●●●● | ● | ○ | ● | ● | | | ●● | | | ● | **Sneddon 57L (12742P)** |
| **deformis** | (L.) Hoffm. | | | ●● | ● | | | | ● | | | | ●● | | | | | ●● | | | | | | | | **Taschereau PMT51-68 (012757P)** |
| **digitata** | (L.) Hoffm. | | | ● | | ● | | ● | | ● | | ● | | | | ● | | ● | ● | | | | ● | | ●● | **Casselman 94-390 (012759P)** |
| **dimorphoclada** | Robbins | | | | | | | | | | | | | | ● | | | | | | | | | | | **Roland 352 (CANL 71592)** |
| **farinacea** | (Vainio) A. Evans | | ○ | | | ● | ● | | ●○ | | ● | | ● | | ○ | | | ● | ○ | | | ●● | | | ● | **Richardson 200 (012764P)** |
| **fimbriata** | (L.) Fr. | | ●○ | ● | ● | ● | | ●● | | ● | ● | ● | | | ○ | ● | ● | ● | ●○ | | | ●●● | | | | **Brodo 19018B (CANL 37786)** |
| **floerkeana** | (Fr.) Flörke | | | | ● | | | | ● | | | | | | | | ●● | | | | | | | | | **Brodo 29621 (CANL 121180)** |
| **furcata** | (Hudson) Schrader | ●● | ○○ | ● | ●○ | ●● | ●●○ | ● | ●●○ | | ● | ● | ● | ○ | ●●●● | ● | ● | ● | ●● | | | | | | ● | **Brodo 19040 (CANL 37801)** |
| **gracilis ssp gracilis** | (L.) Willd. | | ● | ●● | ● | | | ● | ●○ | | ● | | | | | | ●●○ | ●●● | ● | | | | | | ● | **Speer 73-45 (CANL 45203)** |
| **gracilis ssp elongata** | (Jacq.) Vainio | | | | | | | | | | | | | | | | | | | | | | | | ● | **Erskine283/53C (012764P)** |
| **gracilis ssp turbinata** | (Ach.) Ahti | | ●● | ●● | ● | ●○ | ● | ● | ●● | ● | ●● | ●● | ● | ○ | ●● | | ●●●●○ | ●●●● | ● | | | ● | | | | **Lamb 6690 (CANL 8187)** |
| **gracilis ssp vulnerata** | Ahti | | | | ● | | | | | | | | | | | | | | | | | | | | | **Roland 241 (CANL 71589)** |
| **grayi** | G. Merr. ex Sandst. | ● | | | ● | | | | | | | | | | ●● | ●● | | | ● | | | | | | | **Roland 142 (CANL 67070)** |
| **incrassata** | Flörke | | | | | | | ● | ● | | | | | | ●● | | ○ | | ○ | | | ●● | | | | **Roland 143 (CANL 67071)** |
| **labradorica** | Ahti & Brodo | | | | | | | ● | | | | | | | | | ● | | ●○ | | | | | | | **Anderson150335 (046933P)** |
| **macilenta var. bacillaris** | (Genth) Schaerer | | | ● | | ● | ● | | ●○ | | ● | | ●○ | | ● | | ●●●○ | ● | | | | | | | | **Macoun 192+194 (CANL 6706)** |
| **macroceras** | (Delise) Har. | | | ● | | | | | | | | | | | | | | | | | | | | | | **Sneddon 944 (012792P)** |
| **mateocyatha** | Robbins | | | | | | | | ●●○ | ●○ | ● | | | | | | | | | | | | | | | **Ward 77 (CANL 98325)** |
| **maxima** | (Asahina) Ahti | ● | ○ | ● | ●● | ●○ | | ○ | ●●● | ● | ● | ●●● | ● | ● | ●●● | ● | | ●● | ●●○ | | | | | | ○ | **Erskine (012787P)** |
| **merochlorophaea** | Asahina | | | | | | | | | | | | | | | ● | | | | | | | ● | | | **Wetmore 43127 (CANL 085022)** |
| **metacorallifera** | Asahina | | | | | | | | ● | | | | | | | | | | | | | | | | | **Anderson 150427 (P)** |
| **multiformis** | G. Merr. | ● | ●● | ● | ●●○ | | ●●●○ | ● | ● | ●○ | ●●● | ●●○ | ●○ | ○ | ●○ | ● | ●●●○ | ●●● | ●● | | | ●● | | | | **Taschereau 90 (012830P)** |
| **norvegica** | Tøn○erg & Holien | | | | ● | ● | | | | | | | | | ● | | | | | | | | | | | **Ahti 62553(H)** |
| **ochrochlora** | Flörke | ● | ○○ | ● | ● | ● | ● | ●○ | ●○ | | ●● | ● | | | ●○ | ● | ●●● | ●●● | ●●○ | | | | | | ○ | **Anderson C22 (031722P)** |
| **oricola** | Ahti | | | | | ○ | | | ●○ | | ● | | | | ● | | | | ● | | | ● | | | ○ | **Ahti (041519P)** |
| **parasitica** | Hoffm.) Hoffm. | | | | ● | | ● | | ● | ○ | | | | | ● | | | | | | | | | | | **Richardson (016712P)** |
| **phyllophora** | Hoffm. | | ●○ | ● | | | | | | | ● | ● | | | | | | ● | | | | | | | | **Anderson 529** |
| **pleurota** | (Flörke) Schaerer | ● | | ● | | ● | ● | ●○ | ●● | ● | ● | ●● | ○ | ●○ | ● | | ● | ●●●● | | | | | | | | **Taschereau (012723P)** |
| **pocillum** | (Ach.) Grognot | | | ● | | | | | | | | | | | | | | ● | | | | | | | | **Anderson 13990** |
| **pyxidata** | (L.) Hoffm. | | ●○ | ● | | | | | | ○ | ●● | ●○ | ●○ | | ● | | ● | ●●● | | | | ●● | | | | **Sneddon (012849P)** |

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| | | | | | | | | | | | | | | | | | | Islands | | | | | | | | |
| **Macrolichen species in NS** | **Authorities** | **Annapolis** | **Antigonish** | **Cape Breton** | **Colchester** | **Cumberland** | **Digby** | **Guysborough** | **Halifax** | **Hants** | **Kings** | **Inverness** | **Lunenburg** | **Pictou** | **Queens** | **Richmond** | **Shelburne** | **Victoria** | **Yarmouth** | **Brier Isl.** | **Isle Haute** | **Sable Isl.** | **Scatarie Isl.** | **Seal Isl.** | **St.Paul Isl.** | **Verification specimen** |
| **ramulosa** | (With.) J. R. Laundon | | | | ● | | | | ●○ | | ● | | | | ○ | | | | | | | ●● | | | | **Richardson (041327P)** |
| **rangiferina** | (L.) F. H. Wigg. | ● | ●○○ | ●● | ●●●○ | ●●○ | ● | ● | ●●○ | ●● | ●●● | ●●○ | ●○ | ● | ●●● | ● | ●● | ●●●● | ●● | | | ●●● | | | ○ | **Erskine 1184 (012559P)** |
| **rappii** | A. Evans | | | ● | | | | | | | | | | | ● | | ● | | | | | | | | | **Hill 651 (NY 1152761)** |
| **rei** | Schaerer | | ● | ●● | ● | | | ● | | ●○ | ● | ●○ | ●○ | | ● | ● | ●○ | ●● | ● | | | ●● | | | | **Ahti 62573 (024669P)** |
| **scabriuscula** | (Delise) Nyl. | ● | ●●○ | ● | ● | ● | ●●●○ | | ● | | ●● | ●●● | ●● | ● | ○ | ●●● | ● | ●●● | ●● | | | ●● | ● | | | **A.F.Linder 415 (FH)** |
| **squamosa** | Hoffm. | ●● | ○ | ● | ●● | ●● | ● | | ●●●○○ | ?● | ● | ●● | ○ | ○ | ●●● | ● | ●● | ●●● | ● | | | | | | ○ | **Scotter 13772 (CANL 34821)** |
| **stellaris** | (Opiz) Pouzar & Vězda | | ○ | ●● | ●● | ●● | | ○ | ●●●○ | ●● | ●●● | ●● | ●●○ | ● | ●● | ● | ● | ●●●● | ● | | | ●● | | | ○ | **Macoun (CANL 6437)** |
| **strepsilis** | (Ach.) Grognot | | ○ | ● | | | ● | | ●●○ | ●○ | | ● | ●● | | ● | | ●● | ●● | ● | | | | ● | | | **Sneddon (012927P)** |
| **stygia** | (Fr.) Ruoss | | | ●○ | | ●○ | | ● | ○ | | | | | | | ● | | | | | | | ● | | | **Sneddon 1628L (012592P)** |
| **subtenuis** | (Abbayes) Mattick | | | | | | | | | | | | | | | | ●● | | | | | | | | | **Ahti & Maass (CANL 88698)** |
| **subulata** | (L.) F. H. Wigg. | | | | | | | | | | ● | | | | | | | | | | | ●● | | | | **Richardson #9 (041251P)** |
| **sulphurina** | (Michaux) Fr. | | | | | | | | | | | | | | | | | ●● | | | | ● | | | | **Speer 73-72 (CANL45196)** |
| **terrae-novae** | Ahti | ● | ○ | ● | | | ●○ | ●○ | ●●○ | | | ●● | | | ●● | ● | ●●● | | ●●○○ | | | ●○ | | | ○ | **(Richardson (016705P)** |
| **turgida** | Hoffm. | ●○ | | ●● | ●● | | ● | ● | ●○ | ●○ | ● | ●● | ●● | ○ | | | | ● | ●● | | | ●● | | | ○ | **Macoun (CANL 530)** |
| **uncialis** | (L.) F. H. Wigg. | ● | ○○ | ●●● | ● | ○ | ●●● | | ●● | ○ | ● | ●● | ●●●○ | | ●● | ●● | ○ | ●● | ●● | | | | | | ●○ | **A.F. Linder#407 (FH 1920)** |
| **verticillata** | (Hoffm.) Ahti | | ●○ | ●● | ●● | ●● | | ●● | ●●●○ | | ● | ●● | ●● | | ●○○ | | ●○ | ● | ●● | | | ● | | | | **Richardson (016701P)** |
| **wainioi** | Savicz | | | | | | | | | | | ●● | | | | | | ●●. | | | | | | | | **Taschereau 70-20PMT(012848P)** |
| **Coccocarpia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **palmicola** | (Sprengel) Arv. & D. J. Galloway | | | | | | ●○ | ●○ | ●●○ | ● | | | ●○○ | | ○ | ●○ | ●○ | | ○ | | | | ● | | | **Maass 91-000WM (012969P)** |
| **Collema** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **bachmanianum** | (Fink) Degel. | | | | | | | | | ● | | | | | | | | ● | | | | | | | | **Anderson 150761 (046944P)** |
| **crispum** | (Huds.) F.H. Wigg. | | | | | | | | | ● | | | | | | | | ○ | | | | | | | | **Anderson 1508695 ( 046503P)** |
| **cristatum** | (L.) F. H. Wigg. | | | | | | | | | | | | | | | | | ●○ | | | | | | | | **Neily (039484P)** |
| **flaccidum** | Ach.) Ach. | | | | ● | | | | | | | | | | | | | | | | | | | | | **A.R.Prince #6247 (FH 1928)** |
| **furfuraceum** | (Arnold) Du Rietz | | | ●○ | ●○○ | ●○ | ● | ● | ○ | ○ | ● | ● | ●○○ | | ●●○ | ○ | ○● | ●○ | | | | | | | | **Cameron (023033P)** |
| **fuscovirens** | (With.) J. R. Laundon | | | | | ● | | | | | | | | | | | | | | | | | | | | **Anderson 14028 (041495P)** |
| **limosum** | (Ach.) Ach. | | | | | | | | ●○ | | | | | | | | | | | | | | | | | **Anderson 1590772** |
| **leptaleum** | Tuck. | ● | | | ● | ● | | | ●○ | | | | ●○ | ○ | ● | | | ● | | | | | | | | **Macoun (CANL1418)** |
| **nigrescens** | (Hudson) DC. | | | | | | ○ | ○ | ○ | ●○ | | | ●○ | | ● | | ●●○ | | | | | | | | | **Neily (039022P)** |
| **occultatum** | Bagl. | ● | | | | | | | ○ | | | | ●○ | | | | | | | | | | | | | **Anderson 14961 (041494P)** |
| **subflaccidum** | Degel. | ●●○○ | ○ | ●●○ | ●○○ | ●●○ | ○ | ●○ | ●●○○ | | ●●●● | ● | ●○ | ●○○ | ●●○○ | ● | | ●○ | ●●●○ | | | | | | | **Schofield 59 (012989P)** |
| **tenax** | (Sw.) Ach. | | | | | | | | ● | ●○ | | | | | | | | | | | | | | | | **Neily (038333P)** |
| **Degelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **plumbea** | (Lightf.) P. M. Jørg. & P. James | ● | | ● | | ●○ | ○ | ● | ●●○○ | | ○ | ●● | ●○○ | | | ○○ | ●●○○ | ● | ●○ | | | | | | | **Neily (035710P)** |
| **Dendriscocaulon** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **intricatulum** | (Nyl.) Henssen | ●● | | | | ● | | | ○ | | | | ● | | ● | | | | | | | | | | | **Anderson 786 (039444P)** |
| **Dermatocarpon** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **luridum** | (With.) J. R. Laundon | ●○ | | | ●● | | | | | | ●● | ●●● | ○ | | | | | ● | ○ | | | | | | | **Allen 2304 (NY 793586)** |
| **miniatum** | (L.) W. Mann | | | | | | | | | | | ● | | | | | | | | | | | | | | **Macoun 445 (793585)** |
| **Dibaeis** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **baeomyces** | (L. f.) Rambold & Hertel | ● | ○ | ●● | ●●●○ | ●● | ● | ●● | ● | | ●● | ●●● | ● | ●○ | | ● | | ●●● | ●● | | | ● | | | | **Sneddon 1747L (012995P)** |
| **Ephebe** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **hispidula** | (Ach.) Horwood | ● | | | | | | | | | | | | | | | | | | | | | | | | **Neily (046501P)** |
| **lanata** | (L.) Vainio | ●○○ | | | | | | ● | ● | | | | ○ | | ○ | | | | | | | | | | | **Anderson 809 (038328P)** |
| **perspinulosa** | Nyl. | | | | | | | | | | | | | | ●○ | | | | | | | | | | | **Anderson15069** |
| **Erioderma** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **mollissimum** | (Samp.) Du Rietz | | | | | | ○ | ○ | ●○ | | | | ● | | ●○ | | ●●○○ | | ○ | | | | | | | **Neily/Anderson (039445P)** |
| **pedicellatum** | (Hue) P. M. Jørg. | | | ○ | | | | ○ | ○○ | | | | ○○ | | ● | ○ | ○ | | | | | | | | | **Neily/Anderson (041497P)** |
| **Evernia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **mesomorpha** | Nyl. | | ●○ | ● | | ●○○ | ●● | ● | ● | ● | ●● | ● | ●○ | | | ● | ●●● | ● | ●●●○ | | | ●● | | | | **Sneddon 60L (013002P)** |
| **prunastri** | (L.) Ach. | | ● | | ○ | | | | | ●●●○ | | | ● | ●○ | | | | | | | | | | | | **Casselman &Hill P102 (013012P)** |
| **Everniastrum** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **catawbiense** | (Degel.) Hale ex Sipman | | | | | ●●○○ | ○ | | | | | | ●○ | | | | ○ | | | | | | | | | **Anderson (024670P)** |
| **Flavocetraria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **cucullata** | (Bellardi) Kärnefelt & Thell | | | | | | | | | | | | | | | | | ● | | | | | | | | **Blaney 2009 (NBM FL-16781)** |
| **nivalis** | (L.) Kärnefelt & Thell | | | | | | | | | | | ● | | | | | | | | | | | | | | **Sneddon 524L (013018P)** |
| **Flavoparmelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **baltimorensis** | (Gyelnik & Fóriss) Hale | | | | | | | | | | | | | | ● | | | | | | | | | | | **Ahti 57230 (016699P)** |
| **caperata** | (L.) Hale | ● | ○ | | | ●● | ○○ | ● | ●○ | ● | ●● | | ●●○ | ○ | ●○○ | | ● | | ●○ | | | | | | | **Casselman (013019P)** |
| **Fuscopannaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ahlneri** | (P. M. Jørg.) P. M. Jørg. | ○ | | | | ● | ● | ○ | ●●○○ | | | | ○ | | ●○ | ● | ●○ | | ○ | | | | | | | **Neily/Clapp (038781P)** |
| **leucosticta** | (Tuck.) P. M. Jørg. | | | | | | ● | | ●● | | | | ○ | | ●○○ | | ●○ | | | | | | | | | **Anderson 445 (035261P)** |
| **praetermissa** | (Nyl.) P. M. Jørg. | | | | | | | | | ●○ | | ● | | | | | | | | | | | | | | **Macoun (FH 00259143)** |
| **saubinetii** | (Mont.) P. M. Jørg | | | | | ● | | | | ○○ | | | | | | | | | | | | | | | | **Neily BG** |
| **sorediata** | P.M.Jørg. | | | | | | | ● | ● | ● | | | ●○ | | | ● | ●○ | | | | | | | | | **Anderson (038783P)** |
| **Gowardia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **nigricans** | (Ach.) P. Halonen L. Myllys S. Velmala & H. Hyvärinen | | | | | | | | | | | | | | | | | ● | | | | | | | | **Scotter (CANL 38993)** |
| **Heterodermia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **galactophylla** | (Tuck.) Culb | | | | ● | | | | | | | | ● | | | | | | | | | | | | | **Seaward 106518** |
| **leucomela** | (L.) Poelt | | | | | | ● | | | | | | | | | | | | | | | | | | | **Anderson 150462 (041493P)** |
| **neglecta** | Lendemer R. C. Harris & E. Tripp | ● | | | | ●●○ | ●○ | | ●○○ | | | | ●●○ | | ●○○○ | ● | ●○○ | | ○ | | | | | | | **Neily 195 (041498P)** |
| **speciosa** | (Wulfen) Trevisan | ●○ | | | ● | ●●○ | | ● | | | ● | | ●○ | ○ | | | ● | | ○ | | | | | | | **Neily 247 (039447P)** |
| **squamulosa** | (Degel.) Culb | ●● | | | | ●● | ● | ● | | | ●● | | ●○ | | | | | | ○ | | | | | | | **Neily (039054P)** |
| **Hypocenomyce** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **caradocensis** | (Leight.ex.Nyl) P.James & Gotth. Schneid. | | | | | | | | ● | | | | | | | | | | | | | | | | | **Seaward (046951P)** |
| **Hypogymnia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **incurvoides** | Rass. | | ○ | | | ●●○ | ●● | ● | ●●○ | ● | ● | | ●●○ | | ● | | | | ○ | | | | | | | **Anderson 482 (038327P)** |
| **krogiae** | Ohlsson | ● | ○ | ○ | ●○ | ●● | ● | | ●○ | ● | ● | | | ● | ●○ | | ● | | | | | | | | | **Cameron 84 (03169P)** |
| **physodes** | (L.) Nyl. | ● | ●○○ | ● | ●● | ●● | ●●●○ | ● | ●●●○ | | ●●●○ | ●○ | ●○ | ○ | ●●○○ | ●○ | ●●●○ | ●●● | ●● | | | ●● | | | ○ | **Sneddon (013048P)** |
| **tubulosa** | (Schaerer) Hav. | ●● | ○○ | ● | ●○ | ●● | ●○ | ● | ● | ● | ●● | ● | | | ●○○○ | ●● | ●○ | ●● | ○ | | | ●● | | | | **Sneddon (013052P)** |
| **vittata** | (Ach.) Parrique | | | ● | | ● | | ●○ | ●○○ | | | | ● | | | ●○○ | | ● | | | | | | | | **Anderson 150971 (0469528P)** |
| **Hypotrachyna** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **afrorevoluta** | (Krog & Swinscow) Krog & Swinscow | | | | | ●●○ | ○ | | | | | | ●●○ | | | | | | | | | | | | | **Anderson C42 (031737P)** |
| **revoluta** | (Flörke) Hale | | | | ● | ○ | ○ | | | | | | ○ | | ○ | | ● | | | | | | | | | **Anderson 15070** |
| **Imshaugia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **aleurites** | (Ach.) S. F. Meyer | | | | | ●● | ●○ | ● | | ○ | | | ●○ | | ○ | | ● | | ○ | | | | ● | | | **Anderson (024672P)** |
| **placarodia** | (Ach.) S. F. Meyer | | | | | | ● | ● | ● | | | | ●○ | | ●○ | ● | ●○ | | ○ | | | | | | | **Anderson (039450P)** |
| **Lasallia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **papulosa** | (Ach.) Llano | ● | ○ | ● | | ○ | ● | ○ | ●●●○○ | | ●● | ● | ●○ | | ●● | ● | ●●● | ● | ●● | | | | | | | **Sneddon 1596I (013075P)** |

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| | | | | | | | | | | | | | | | | | | Islands | | | | | | | | |
| **Macrolichen species in NS** | **Authorities** | **Annapolis** | **Antigonish** | **Cape Breton** | **Colchester** | **Cumberland** | **Digby** | **Guysborough** | **Halifax** | **Hants** | **Kings** | **Inverness** | **Lunenburg** | **Pictou** | **Queens** | **Richmond** | **Shelburne** | **Victoria** | **Yarmouth** | **Brier Isl.** | **Isle Haute** | **Sable Isl.** | **Scatarie Isl.** | **Seal Isl.** | **St.Paul Isl.** | **Verification specimen** |
| **Leptogium** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **azureum** | (Sw. ex Ach.) Mont. | | | | | | | | | | ● | | | | | | | | | | | | | | | **Neily (041492P)** |
| **corticola** | (Taylor) Tuck. | ○ | | | | | ●● | | ●○○ | ●○ | | | ● | | ○ | | ●●○ | | | | | | ● | | | **Anderson (039012P)** |
| **cyanescens** | (Rabenh.) Körber | ●●●○○ | ○ | ●○ | ●●●●● | ●●●○ | ○ | ●●○○○ | ●●○○○ | ●●●○○ | ●●● | ●●● | ●○○ | ○ | ●●○ | ●○ | ●●○○ | ●●○ | ●●○ | | | | | | | **A.R.Prince 6354 (FH)** |
| **dactylinum** | Tuck. | ●○ | | | | | | | | | | | | | | | | | | | | | | | | **Neily 276 (041491P)** |
| **hibernicum** | M.E.Mitch.ex P.M.Jorg. | | | | | | ● | | | | | | | | | | ● | | | | | | | | | **Neily/Clapp (041489P)** |
| **hirsutum** | Sierk | | | | | | | | | | ○ | | | | | | | | | | | | | | | **Neily 244** |
| **imbricatum** | P. M. Jørg. | | | ● | | ●○ | | | | | | ● | ● | | ●○ | | | | | | | | | | | **Anderson 14012** |
| **intermedium** | (Arnold) Arnold | | | | | | | | | | | | | | | | | ○● | | | | | | | | **Anderson (041485P)** |
| **laceroides** | (B. de Lesd.) P. M. Jørg. | ●○ | | | ●○ | ●●○○ | ●●○○ | ●○ | ●○○ | ● | | | ●●○ | | ○○○ | ●○ | ○○ | | ●○ | | | | | | | **Anderson (032803P)** |
| **lichenoides** | (L.) Zahlbr. | | ● | | | | | | | ●○ | | | | | | | | | | | | | | | | **Neily (037836P)** |
| **millegranum** | Sierk | | | | ○ | | | | | | | | ●○ | | ● | | ●○○ | | ●○ | | | | | | | **Richardson (016742P)** |
| **saturninum** | (Dickson) Nyl. | ●○ | | | ○ | ●● | | | | ●○ | | | ● | | | | ●○ | ●● | | | | | | | | **Cameron (031649P)** |
| **schraderi** | (Bernh) Nyl.. | | | | | | | | | ●○ | | | | | | | | | | | | | | | | **Anderson 1590838** |
| **subtile** | (Schrader) Torss. | ○ | | | | ○ | ● | | | ●○ | ○ | | ●○ | | | | | ● | ○ | | | | | | | **Anderson (032804P)** |
| **tenuissimum** | (Dickson) Körber | | | | | | | | | ●○ | | ●○ | ● | | ●●○ | | | | ○ | | | | | | | **Anderson 1082 (039489P)** |
| **teretiusculum** | (Wallr.) Arnold | ● | | | | ● | | | | ●○ | | ● | ● | | | | | | | | | | | | | **Neily (037838P)** |
| **Lichina** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **confinis** | (Mull) Ag. | | | ● | | | | | ●●○ | | | | | | | | | | | | | | | | | **Lamb 6922 (CANL 2368)** |
| **Lobaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **pulmonaria** | (Mull) Ag. | ● | ●○ | ●○ | ●●● | ●●● | ●●●○ | ●○ | ●●●○ | ●○○ | ●●●● | ●●● | ●○ | ●●○○ | ●●●●○ | ●●●○ | ●●○ | ●●●●○ | ●●○ | | | ● | | | ● | **Ireland 12400 (CANL35635)** |
| **quercizans** | Michaux | ○ | ○ | ●○ | ●●●● | ●● | ●○ | ○ | ●●● | ○○ | ●●●● | ●●●● | ●○○ | ●○○ | ●●○ | ●●○ | ●●●○○ | ●●○ | ●●●○ | | | | | | | **Taschereau 1096 (0313129P)** |
| **scrobiculata** | (Scop.) DC. | ● | ○ | ●○ | ●●○ | ● | ●○ | ●○ | ●●●○ | ●○ | ●● | ● | ●○ | ○○ | ●●○ | ●○ | ●●○○ | ●●○ | ●○ | | | ●● | | | | **Wilson (0131355P)** |
| **Massalongia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **carnosa** | (Dickson) Körber | | | | | | | | | | | | | | | | | ●●● | | | | | | | | **Anderson 14002** |
| **Melanelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **culbersonii** | (Hale) Thell | | | | | | | | | | | | ● | | | | | | | | | | | | | **Anderson 13839** |
| **disjuncta** | (Erichsen) Essl. | | | | | | | | ● | ● | | ● | ●○ | | | | | ● | | | | | | | | **Sneddon 1712L CBU** |
| **hepatizon** | (Ach.) Thell | | | ● | | | | | | | | | | | | | | ● | | | | | | | | **Sneddon C922 (012486P)** |
| **panniformis** | (Nyl.) Essl. | ● | | ● | | | ● | | ●○ | ○ | | ● | ●○ | | | | | | | | | | | | | **Casselman 93-325 (0131548P)** |
| **sorediata** | (Ach.) Goward & Ahti | ● | | | | | | | ○ | ● | | ● | | | | | | | | | | | | | | **Anderson 150909** |
| **stygia** | (L.) Essl. | | | ● | | | | | | | ●● | ● | | | | | | | | | | | | | | **Erskine 1193 (013157P)** |
| **Melanelixia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **fuliginosa** | (Fr. ex Duby) O. Blanco et al | ● | ○ | ●●○ | ●○ | ●●○ | | ● | ●○ | | ● | ●● | | ○ | | ●○ | | ● | | | | | | | | **Anderson 859 (039452P)** |
| **subaurifera** | (Nyl.) O. Blanco et al | ● | ●○ | | ●●○ | ●●○ | ●○ | | | ● | ●●● | ●● | | ●○ | ●●● | ● | ● | ●●● | ●● | | | ● | | | | **Casselman 90-14 (013163P)** |
| **Melanohalea** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **olivacea** | (L.) O. Blanco et al | | | ● | ●● | ●● | | | | | | | ● | ● | ● | | ● | | | | | | | | | **Anderson 694 (038987P)** |
| **septentrionalis** | (Lynge) O. Blanco et al. | | | | ● | ● | | | | | | | | | | | | | | | | | | | | **Clayden 0154 (NBM FL-06097)** |
| **Menegazzia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **subsimilis** | (H. Magn.) R. Sant. | | | | | ●●● | ○ | ○ | ○ | ● | | | ●●○ | | ● | ● | ● | | ○ | | | | | | | **Anderson 885 (041554P)** |
| **terebrata** | (Hoffm.) A. Massal. | | | | ● | ● | ●○ | ● | ○ | | | | ●○ | | ● | | ● | | ●●○○ | | | | | | | **Anderson 788 (039454P)** |
| **Moelleropsis** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **nebulosa ssp. frullaniae** | Maass | | | | | | ●●○ | ●○ | ●○ | | | | ●○ | | ●○ | | ●○○ | | | | | | | | | **Maass 83A-17d(013165P)** |
| **Myelochroa** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **aurulenta** | (Tuck.) Elix & Hale | | | | ● | ●● | | | | | ● | | | | | | | | | | | | | | | **Clayden 5007(NBM FL-05415)** |
| **galbina** | (Ach.) Elix & Hale | | | | ●●● | ● | | | | ●○○ | ● | | ●○ | | | | | ● | | | | | | | | **Anderson 151062** |
| **Nephroma** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **arcticum** | (L.) Torss. | | | | | | | | | | | ● | | | | | | ●●● | | | | | | | | **Ireland 10592 (CANL35560)** |
| **bellum** | (Sprengel) Tuck. | | ○ | | ●○ | ●○ | | | ● | | | ● | | | ● | ●○ | | ●●● | | | | | | | | **Sneddon 1170L (01374P)** |
| **helveticum** | Ach. | ●○ | | | ●● | ●● | ○● | ○ | ●●●○○○ | | | | ●●○○ | | ○○ | ●○ | ●○ | | ○○ | | | | | | | **Cameron (023131P)** |
| **laevigatum** | Ach. | ●○ | ○ | ○ | | ● | ●● | ● | ●●○ | ●○ | ● | ●●●○ | ●○○ | ●○○ | ○○○○ | ●○ | ●○○○ | ●●●○○ | ●○ | | | ● | | | | **Erskine (013178P)** |
| **parile** | (Ach.) Ach. | ●●●○ | ●○ | | ● | ●○ | | ● | ●○○ | ● | ● | ●● | ●○ | | | | | ● | | | | | | | | **Casselman 90-12 (013179P)** |
| **resupinatum** | (L.) Ach. | ● | | | | | | | ● | | | | ● | | | | | ●● | ○ | | | | | | | **Neily 242 (039038P)** |
| **Normandina** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **pulchella** | (Borrer) Nyl. | ●○ | | | ○ | ●●○○ | | ○ | ●○ | ● | ● | | ● | | ●○○○○ | ○ | ● | | ○○ | | | | | | | **Anderson C56 (031896P)** |
| **Pannaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **conoplea** | (Ach.) Bory | ●○ | | | ● | ●●○ | ●●○ | ○ | ●○○ | | | | ●● | | ●○○○ | ● | ○○○ | | ●○○ | | | | | | | **Anderson 887(041556P)** |
| **lurida s.l.** | | ● | | | | | | | | | | | ●○○ | | ○ | | ●○ | | | | | | | | | **Neily (046570P)** |
| **rubiginosa** | (Ach.) Bory | ●○ | | | | ●●○ | ● | ● | ● | ○ | | ● | ●○ | ● | ○○ | | ●○ | ● | ○ | | | | | | | **Neily 212 (039491P)** |
| **Parmelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **fertilis** | Müll. Arg. | | | ○ | ●●○ | ● | | | | | | | | ● | | | | | | | | | | | | **Clayden 0220 (NBM FL-06270)** |
| **omphalodes** | (L.) Ach. | | | | | | | | ●○ | | | ● | ●○ | | ● | | | | | | | | | | | **MacDonald (041505P)** |
| **saxatilis** | (L.) Ach. | ●● | | ●● | ● | ●● | ●● | ● | ●●○ | | ● | ● | ●○ | | ○ | | ●● | ●●● | ● | | | ●● | | | ○ | **Sneddon 1618L (013203P)** |
| **squarrosa** | Hale | ●● | ○○ | ●●○ | ●●●● | ●●●○ | ○○ | ● | ●●○○ | ● | ●●● | ●● | ●○ | ●○○ | ●●●○○○ | ●○○ | ●●○ | ●● | ●●○○ | | | ●● | | | ○ | **Casselman 91-81 (013215P)** |
| **sulcata** | Taylor | ● | ●○ | ●● | ●●● | ●○ | ○ | ●○ | ●●●○ | | ● | ●● | ●○ | ●○ | ○ | ● | ●●●● | ●●● | ●● | | | ● | | | ●●○ | **Sneddon 1523L (013228P)** |
| **Parmeliella** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **appalachensis** | P. M. Jørg. | | | | | ○ | | | ●○ | | | | | | | | ○ | | | | | | | | | **Anderson 1320** |
| **parvula** | P. M. Jørg. | | | | | | ○ | ● | | | | | ○ | | ●○ | ● | ●○○ | | | | | | | | | **Neily (041535P)** |
| **triptophylla** | (Ach.) Müll. Arg. | ●○○ | ○ | ●●○ | ●●○ | ●●○ | ● | ● | ●● | ○ | ● | ●●● | ●○ | ●○○ | ●○○○ | ●○ | | ●●○ | ○ | | | | | | | **Sneddon 1541L (013304P)** |
| **Parmelinopsis** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **horrescens** | (Taylor) Elix & Hale | | | | | | | | | | | | | | | | | | ●○ | | | | | | | **Neily (038792P)** |
| **minarum** | (Vainio) Elix & Hale | ● | | | | ●○ | | | ● | | | | ●○ | | | | | | ○ | | | | | | | **Glenn (024675P)** |
| **Parmeliopsis** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ambigua** | (Wulfen) Nyl. | | | ● | | | | | | | | ● | | | | | | | | | | | | | | **Sneddon C1336 (013310P)** |
| **capitata** | R. C. Harris ex J. W. Hinds & P. L. | ● | ●○ | ● | ○ | ● | ● | ● | ●●○ | | | ● | ● | ○ | | ● | ● | ● | | | | | | | | **Anderson 704 (038994P)** |
| **hyperopta** | (Ach.) Arnold | | | | | ● | | ○ | | | | ● | | ● | | | | ● | | | | ● | | | | **Anderson 704 (038994P)** |
| **Parmotrema** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **crinitum** | (Ach.) M. Choisy | ●●○ | | | ● | ●●○ | ●●○ | ● | ○○ | | ●● | | ●●○ | | ●○○ | | ●○○○ | | ●○○ | | | | | | | **Erskine 1129 (013314P)** |
| **perlatum** | (Hudson) M. Choisy | ●○ | | | | | ●○ | | | | ● | | ●●○ | | ●○○ | | ●● | | ●●○ | | | | | | | **Richardson (016687P)** |
| **reticulatum** | (Taylor) M. Choisy | ● | | | | | | | | | ● | | ● | | | | | | | | | | | | | **Neily 16 (041480P)** |
| **Peltigera** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **aphthosa** | (L.) Willd. | ●○○ | ○ | ● | ●●●●●○○ | ●● | ● | ●○ | ●○○ | | ●●● | ●● | ●○ | | ○○ | ●○ | ● | ●● | ●● | | | | | | | **Cameron 96-011 (022485P)** |
| **canina** | (L.) Willd. | | ●● | | ●●● | | ●○ | | ○ | | ● | ● | | ○ | ○○ | | ○ | ●● | ●● | | | | | | | **Sneddon 1521L (013329P)** |
| **collina** | (Ach.) Schrader | | | | | | ● | ●○ | | | | | ○ | | | ●○ | | ● | | | | | | | | **Mrs.J.D.Lowe 1908 (FH)** |
| **degenii** | Gyelnik | | | ● | ○ | ●●● | | | ● | | | | | | | | | | | | | | | | | **Anderson CC473 (035227P)** |
| **didactyla** | (With.) J. R. Laundon | | ● | ● | | ○ | ● | | | | ● | ○ | ● | ● | ○ | | | ● | | | | | | | | **Anderson 1241 (041536P)** |
| **elisabethae** | Gyelnik | ●○ | ●○ | ● | ● | ● | | | ● | ●● | | ● | | | ● | | ○ | ●●● | | | | | | | | **Erskine 56C2719 (013319P)** |
| **evansiana** | Gyelnik | ●○○ | | | ●●●○○ | ●● | | | | ○ | ●● | | | | ●○ | | | | ○ | | | | ● | | | **Neily 181 (039043P)** |
| **extenuata** | (Vainio) Lojka | | | | | | | | | | | | ○ | | ○ | | | | | | | | | | | **Anderson 1590897** |

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| **Macrolichen species in NS** | **Authorities** | **Annapolis** | **Antigonish** | **Cape Breton** | **Colchester** | **Cumberland** | **Digby** | **Guysborough** | **Halifax** | **Hants** | **Kings** | **Inverness** | **Lunenburg** | **Pictou** | **Queens** | **Richmond** | **Shelburne** | **Victoria** | **Yarmouth** | **Brier Isl.** | **Isle Haute** | **Sable Isl.** | **Scatarie Isl.** | **Seal Isl.** | **St.Paul Isl.** | **Verification specimen** |
| **horizontalis** | (Hudson) Baumg. | ●○○ | ○ | ● | ●● | ●● | | | ●● | ○ | ● | ●● | ●● | ●○ | | | | ● | ○ | | | | | ● | | **Erskine 50C1292 (013324P)** |
| **hydrothyria** | Miadl. & Lutzoni | | | | ○○ | ●○ | | ● | | | | | | | | | | ●● | | | | | | | | **Anderson 14000** |
| **hymenina** | (Ach.) Delise | | | ● | | ○ | | | ● | | | ● | | | | ●○ | | | ● | | | ● | | | | **Erskine 54C2588 (013333P)** |
| **lepidophora** | (Nyl. *ex* Vainio) Bitter | | | | | | | | | ●○ | | | | | | | | | | | | | | | | **Anderson 948 (039462P)** |
| **leucophlebia** | (Nyl.) Gyelnik | ● | | | ● | ●○ | ● | ○ | | ●○ | ●● | ●● | ● | ○○ | ● | | | ●●● | | | | | | | | **Anderson (032823P)** |
| **malacea** | (Ach) Funck | | | ● | | | | | | | | | | | | | | | | | | | | | | **Sneddon 219L (013348P)** |
| **membranacea** | (Ach.) Nyl. | ●● | ●○ | ●○ | ●● | ●●○○ | | ● | ●○○ | ● | | ●● | | ● | ●● | ● | | ● | ●○ | | | | ● | | | **Sneddon 1557L (013338P)** |
| **neckeri** | Hepp ex Müll. Arg. | | | | ●○ | | | | | | | ● | | | | | | | | | | | | | | **Hinds 4873** |
| **neopolydactyla** | (Gyelnik) Gyelnik | ●● | ○ | | ● | ●○ | | ● | ● | | ●● | ●● | ● | | ●●● | ● | | ●●● | | | | ● | | | ● | **Richardson (016683P)** |
| **occidentalis** | (E.Dahl) Kristinsson | | | | | | | | | | | | | | | | | | | | | | | | ● | **Erskine 53C2433 (013327P)** |
| **ponojensis** | Gyelnik | | | | | | | | ● | | | | | | | | | ● | | | | | | | | **Speer (NBM FL-01435)** |
| **polydactylon** | (Necker) Hoffm. | | | ● | ●●● | ●●○ | ● | ● | ● | ●○ | ●●●○ | ● | ●●● | | ● | | ● | ●● | ●●○ | | | | | | | **A.R.Prince 6068 (FH)** |
| **praetextata** | (Flörke ex Sommerf.) Zopf | ●○ | | ● | ●● | ● | | | | | ● | ●● | ● | | ● | ● | | ● | | | | ● | | | | **Anderson 910 (041722P)** |
| **rufescens** | (Weiss) Humb. | | ○ | | | | | | | ● | ● | | | | | ● | | ●●●● | ○ | | | | | | | **Erskine 53C2145 (013352P)** |
| **Phaeophyscia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **adiastola** | (Essl.) Essl. | ● | | ● | | ● | | | | | | | | | | | | | | | | | | | | **Neily 232 (039045P)** |
| **orbicularis** | (Necker) Moberg | | ○ | | | | | | ○ | | | | ●○ | | ○ | | | ● | | | | ●● | | | | **Anderson (039017P)** |
| **pusilloides** | (Zahlbr.) Essl. | | | ● | ● | ●● | | | | | | | | | | | | ●● | | | | | | | | **Clayden (NBM FL-07188)** |
| **rubropulchra** | (Degel.) Essl. | ● | ○ | ●○ | ●● | ● | ○ | ● | ●○ | ● | ●● | ●● | ○ | ○ | ●● | ●○ | | ● | ○ | | | | | | | **Casselman (013370P)** |
| **Phylliscum** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **demangeoni** | (Moug. & Mont.) Nyl. | | | | | | | | | ● | | | ●○ | | | | | | | | | | | | | **Neily 943 (039463P)** |
| **Physcia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **adscendens** | (Fr.) H. Olivier | | | ● | ●● | ● | ● | ● | ●○ | ● | ●● | ● | ● | ○ | | | | | ● | | | ●● | | | | **Casselman 93-311 (013573P)** |
| **aipolia** | (Ehrh. ex Humb.) Fürnr. | ● | ○ | ● | | ● | | | | | | | | | | | ● | | | | | | | | | **Anderson 871 (039464P)** |
| **caesia** | (Hoffm.) Fürnr. | | | ● | | | ● | | ● | | | | | | ○ | ● | | | ●● | | | | | | | **Macoun (CANL18717)** |
| **dubia** | (Hoffm.) Lettau | | | ● | | | | | | ○ | | ● | ●○ | | | | | ● | | | | | | | | **Lamb 6659 (CANL18799)** |
| **millegrana** | Degel. | | | | ○ | ● | | | ●○ | | ●●● | | ○ | ○ | | ● | | ● | ○ | | | ● | | | | **Erskine 1348 (013380P)** |
| **phaea** | (Tuck.) J. W. Thomson | | | | | ○ | | | | ○ | | | | | ● | ● | | | | | | | | | | |
| **stellaris** | (L.) Nyl. | ● | ○ | ● | ●●●○ | ●● | ●● | | ●●○ | ●○ | ●●● | | ○ | ○ | ●○ | ● | ● | ● | | | | | | | | **Macoun (CANL19103)** |
| **subtilis** | Degel. | | | | | | | | ● | | | | ○ | | | | ○ | | | | | | | | | **Anderson 815 (039466P)** |
| **tenella** | (Scop.) DC. | | | ● | | | | | | | | | | | | | | | ●● | | | | | ● | | **Sneddon 15066 (013389P)** |
| **tenella var. marina** | (A. Nyl.) D. Hawksw. | | | ●● | | | | ● | ● | | | | | | ●○ | ● | | | | | | ●● | | | | **Sneddon C1169 (013376P)** |
| **Physconia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **detersa** | (Nyl.) Poelt | | | | ●○○ | ●●○ | | ●○ | ○ | | | | | | ● | | | ● | ○ | | | | | | | **Anderson C77 (031915P)** |
| **grumosa** | Kashiw. & Poelt | ● | | | ●○ | ●● | | | | ● | | | ● | | ● | | ● | | | | | | | | | **Anderson #14983 (NDSU)** |
| **Placidium** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **squamulosum** | (Ach.) Breuss | | | | | | | | ● | | | | | | | | | ● | | | | | | | | **Anderson 14035** |
| **Placynthium** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **flabellosum** | (Tuck.) Zahlbr. | ●○○ | | | | | | | ● | | | | ●○ | | | | | | | | | | | | | **Anderson (039467P)** |
| **nigrum** | (Hudson) Gray | | | | | | | | ●○ | ○ | | | | | ● | | | ● | | | | | | | | **Anderson 150886(P)** |
| **Platismatia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **glauca** | (L.) W. L. Culb.. & C. F. Culb. | | ○ | ●● | ●● | ●●○ | ●● | ●○ | ●●●○ | | ●●● | ●●● | ○ | ○ | ●● | ●●○ | ● | ●●● | ●●● | | | ●● | | | ● | **Erskine (013396P)** |
| **norvegica** | (Lynge) W. L. Culb.. & C. F. Culb. | | | ○ | | | | | | | | ● | | | | ● | | ●●● | | | | | | | | **Anderson 14082(P)** |
| **tuckermanii** | (Oakes) W. L. Culb.. & C. F. Culb. | ● | ○ | ● | ○ | ●● | ○ | ● | ●●● | ●○ | ●●● | ● | ● | ○ | ●●● | ● | ●● | ● | ● | | | | | | | **Erskine (013443P)** |
| **Polychidium** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **muscicola** | (Sw.) Gray | ○ | | | | | | ● | | | | | | | | | | | | | | | | | | **Neily 382 (041487P)** |
| **Protopannaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **pezizoides** | (Weber) P. M. Jørg. & S. Ekman | ● | ●○ | | | ● | | | ○ | ● | | ● | ●○○ | ●○ | ●○ | ● | ●○ | ●●●○ | | | | | | | | **Casselman (013197P)** |
| **Pseudevernia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **cladonia** | (Tuck.) Hale & W. L. Culb. | | | | | ● | | ● | | | | | ● | | ○ | | ●○ | | | | | | | | | **Anderson C80 (031922P)** |
| **consocians** | (Vainio) Hale & W. L. Culb.. | | | | | | | | | | | | ●○ | | | | | | | | | | | | | **Anderson 816 (039470P)** |
| **Pseudocyphellaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **perpetua** | McCune & Miadl. | ○ | | | ● | ●○ | ●○ | ●○ | ●●●○ | ● | ○ | | ●○ | | ●○ | ○ | ●●○ | ● | ●●○ | | | | | | | **Taschereau (013458P)** |
| **Psorula** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **rufonigra** | (Tuck.) Gotth. Schneider | ● | | | | | | | | | | | | | | | | | | | | | | | | **Neily (039048P)** |
| **Psoroma** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **hypnorum** | (Vahl) Gray | | | | | | | | | | | | | | | | | ● | | | | | | | | **Sneddon 2003L (013198P)** |
| **Punctelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **appalachensis** | (W. L. Culb..) Krog | ● | | | ●○ | ●●●○ | ●●○ | | | ●○ | ●○○ | | | | | | | | ○ | | | | | | | **Neily (037839P)** |
| **rudecta** | (Ach.) Krog | ●● | ○ | ● | ●●●○ | ●●○ | ●○○ | ●○ | ● ○ | ●○ | ●● | ●●● | ○ | ●○ | ●●○○○ | ● | ○ | ● | ●●○ | | | | | | | **Erskine 1222 (013467P)** |
| **Pycnothelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **papillaria** | Dufour | | | ● | ● | | ● | ●● | ●● | ●● | ●● | ● | ●● | ● | | ● | ●●○ | ●●● | ●● | | | | | | | **Taschereau & Belliveau (013477P)** |
| **Pyxine** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **sorediata** | (Ach.) Mont. | ● | | ●○ | ●●●○○ | ●●○ | ● | ● | | | ●● | ●●●○ | ●○ | ● | ●●○ | ● | | | ○ | | | | | | | **Sneddon 423L(013483P)** |
| **Racodium** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **rupestre** | Pers. | ○○ | | | | ○ | | | ● | | ○○ | | ● | | | | | | | | | | | | | **Anderson 1325 (041479P)** |
| **Ramalina** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **americana** | Hale | ●○ | ○ | ● | ●○ | ●●○ | | | ●○ | ●○ | ● | ● | ●○ | ○ | ●●○ | | | ● | ○ | | | ●● | | | | **Macoun (CANL16626)** |
| **dilacerata** | (Hoffm.) Hoffm. | | ● | | ○● | ● | ● | ● | ●●○ | ●●○ | ● | ● | ● | ○ | ●○ | ●● | ●●○ | ●●● | ●● | | | | | | | **Erskine 1165 (013490P)** |
| **farinacea** | (L.) Ach. | | ●○ | ●●●○ | ● | ●●●○○ | ●● | | ●○ | ●●● | ●●● | ●● | ●○ | ●○ | ● | ●○ | | ●●● | | ● | | ●● | | | | **Lamb 6755(FH)** |
| **intermedia** | (Delise ex Nyl.) Nyl. | ● | | ● | ● | ● | ● | | ●●○ | | ● | ● | ● | | ●○ | ● | ● | ● | ●●● | | | | | ● | | **Macoun 69 (FH)** |
| **obtusata** | (Arnold) Bitter | | | | ●○ | | | | | | | | | | | | | | | | | | | | | **Hinds 4878** |
| **roesleri** | (Hochst. ex Schaerer) Hue | ● | | ●●● | ●○ | ●●○○ | ●● | ● | ●●○ | | | ● | ●○ | ●○○ | ●○ | ●●●○ | ● | ●● | ●●○○ | | ● | ● | | ● | ●○ | **LaGreca (016694P)** |
| **thrausta** | (Ach.) Nyl. | | | ○ | ○ | ●●○ | ○ | | ●○ | | | | | | | | ● | | ○ | | | | | | | **Anderson CC440 (035235P)** |
| **Rhizoplaca** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **subdiscrepans** | (Nyl.) R. Sant. | | | | | | | | | | | | ● | | | | | | | | | | ● | | | **Anderson 309 (046912P)** |
| **Santessionella** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **crossophylla** | (Tuck.) P. M. Jørg. | | | | | | | | | ○ | | | | | | | | | | | | | | | | **Neily (BG)** |
| **Solorina** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **saccata** | (L.) Ach. | | | | | | | | | ●○ | | ● | | | | | | ●○ | | | | | | | | **Neily (037840P)** |
| **Sphaerophorus** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **fragilis** | (L.) Pers. | | | ●○ | | | | | ●●●○ | | | ● | ● | | | | | ●● | ● | | | | ● | | ○ | **Sneddon 1773L (013572P)** |
| **globosus** | (Hudson) Vainio | ● | | ●●● | ●● | ●●○ | ● | ●●○ | ●● | ●○ | ● | | ●○ | ○ | ●● | ●● | ● | ●●● | ○ | | | | | | ○ | **Lamb 6851 (FH)** |
| **Spilonema** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **revertens** | Nyl. | ●○ | | | | | | | | | | | | | | | | | | | | | | | | **Neily (039048P)** |
| **Stereocaulon** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **condensatum** | Hoffm. | | | | | | | | | | | | | ● | | | ●○ | | | | | | | | | **Hinds 4365** |
| **dactyllophyllum** | Flörke | ●● | | ● | ●●● | ● | ● ● | ●● | ●● | ○ | ●● | ●● | | ○ | ● | ● | ● | ●● | ●● | | | | | | | **Lamb 7018 (CANL 70871)** |
| **dactyllophyllum var.occidentale** | (H. Magn.) I. M. Lamb | | | | ● | | | | | | | ● | | | | | | | | | | | | | | **Lamb 7028 (CANL 10221)** |

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| | | | | | | | | | | | | | | | | | | Islands | | | | | | | | |
| **Macrolichen species in NS** | **Authorities** | **Annapolis** | **Antigonish** | **Cape Breton** | **Colchester** | **Cumberland** | **Digby** | **Guysborough** | **Halifax** | **Hants** | **Kings** | **Inverness** | **Lunenburg** | **Pictou** | **Queens** | **Richmond** | **Shelburne** | **Victoria** | **Yarmouth** | **Brier Isl.** | **Isle Haute** | **Sable Isl.** | **Scatarie Isl.** | **Seal Isl.** | **St.Paul Isl.** | **Verification specimen** |
| **depreaultii** | Delise ex Nyl. | | | | | | | | | | | ● | | | | | | | | | | | | | | **Lamb 6811 (CANL 10373)** |
| **glaucescens** | Tuck. | | | ● | | | | | ● | | ● | | | | | ● | | | ●● | | | | | | | **Peterson #14(NBM FL-02601)** |
| **grande** | (H. Magn.) H. Magn. | | | | | | | | | | | ● | | | | | | ● | | | | | | | | **Lamb 6708 (FH)** |
| **intermedium** | (Savicz) H. Magn. | | ○ | | | | | | | ○ | | | | | ● | | | | | | | | | | | **Roland 125 (CANL 67124)** |
| **paschale** | (L.) Hoffm. | ● | ● | | ●●● | | ● | | | | | ●● | ●○ | | | | | ●●● | ●● | | | | | | | **Lamb 6839 (CANL 10293)** |
| **pileatum** | Ach. | | | | ● | | ● | ● | | ○ | | ●● | | ○ | | | ○ | ●● | ● | | | | | | | **Lamb 6648 (CANL 10409)** |
| **saxatile** | H. Magn. | | | ● | ● | ● | | | ● | | ● | ●● | | | | | | ● | | | | | | | | **Lamb 6795 (CANL 10384)** |
| **subcoralloides** | (Nyl.) Nyl. | | | | | | | | | | | | | | | ● | | | ● | | | | | | | **Harris (NY 1150128)** |
| **tomentosum** | Fr. | | ○ | ●●● | ●●● | | | ● | | | ● | ● | | ○ | | ●● | ●● | ●●● | | | | | | | | **Lamb 6878 (CANL 10458)** |
| **Sticta** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **fuliginosa** | (Hoffm.) Ach. | | | | ●● | ●●○ | ●○ | ● | ●●○ | | ●● | | ●○ | | ○○ | ● | ●●●○○ | | ●●○ | | | | | | | **Macoun (CANL 3398)** |
| **limbata** | (Sm.) Ach. | | | | | ●○ | | | | | ●○ | | ● | | | ○ | ○ | | | | | | | | | **Anderson 639 (038998P)** |
| **Tuckermanopsis** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **americana** | (Sprengel) Hale | ● | ○ | ● | ● | ●● | ● | ● | ●● | ● | ●● | ● | ●●○ | ● | ●○ | | ● | ● | ●○ | | | ●● | ● | | | **Richardson (016722P)** |
| **ciliaris** | (Ach.) Gyelnik | | | ●●○ | ○ | ● | | | | | ●● | ● | ● | ● | | | | ● | | | | | | | | **Sneddon 105L (012485P)** |
| **orbata** | (Nyl.) M. J. Lai | | ●○ | ●● | | ● | ● | ● | ● | ● | | ●● | ● | ○ | ● | ●●○ | ● | | ● | | | | | | | **Sneddon 1852L (013610P)** |
| **sepincola** | (Ehrh.) Hale | | | ● | | | | | | | | ●● | ○ | | ● | | | | ● | | | | | | | **Buck (NY1180017)** |
| **Umbilicaria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **americana** | Poelt & T. H. Nash | | | | | | | | | | | | | | | | | ● | ● | | | | | | | **Cameron (023133P)** |
| **deusta** | (L.) Baumg. | | | ● | | | | | | | ● | ● | ● | | | | ● | ●● | | | | | | | | **Sneddon (013617P)** |
| **hyperborea** | (Ach.) Hoffm. | | | ● | | | | | | | | ● | | | | | | ● | | | | | | | | **Ireland 11920 (CANL 35671)** |
| **mammulata** | (Ach.) Tuck. | ●●● | | | ● | | ● | | ●●● | | ● | ● | | | ●● | | ●● | | | | | | | | | **Erskine (013629P)** |
| **muehlenbergii** | (Ach.) Tuck | ●●● | | ● | | | ● | | ●●●●●○ | ●○ | ●● | ● | ●●● | ○ | ● | | ● | ●●● | ● | | | | ● | | | **Macoun 195 (FH)** |
| **polyphylla** | (L.) Baumg. | | | ● | | | | | | | ● | | | | | | | ●● | | | | | | | | **Brodo 19064 (CANL 37701)** |
| **polyrrhiza** | (L.) Fr | | | | | | | | | | | | | | ● | | | | | | | | | | | **Richardson (016696P)** |
| **vellea** | (L.) Hoffm. | | | | | | | | | | | ● | | | | | | | | | | | | | | **Clayden (NBM FL-07306)** |
| **Usnocetraria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **oakesiana** | (Tuck.) A.Thell & Randlane | ● | | | ○ | ●● | | | | ● | | | | | | | | | | | | | | | | **Anderson C4 (03707P)** |
| **Usnea** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **cavernosa** | Tuck. | | | | | | | | | ● | ●● | | | | | | | | | | | | | | | **Gillett 15683A (CANL 36514)** |
| **ceratina** | Ach. | | | | ● | ● | | | | | | | ●●○ | | | | ● | | ● | | | | ● | | | **Anderson 820 (039476P)** |
| **chaetophora** | Stirton | | | | | ● | | | | | | | | | ○ | | | | | | | | | | | **Anderson 446** |
| **cornuta s.l.** | Körber | | ○ | ● | ● | ● | ●○ | ● | ● | | | | | | ●○ | ●● | ●○ | | ○○ | | | ●● | ● | | | **Richardson 104 (041237P)** |
| **fibrillosa** | Motyka | | | | | | | | | | | | | | | | | ● | | | | | | | | **Lamb 6814 (CANL 17099)** |
| **filipendula** | Stirton | ● | ○ | ● | ●● | ●○ | ● | | ●●○ | | ●●●○ | ●● | | | ● | ●● | ● | ●● | ● | | | ●● | | | | **Brodo (CANL1211921)** |
| **flammea** | Stirton | | | | | ● | | | | | | | ○ | | ● | | ● | | | | | ●○ | | | | **Anderson 709 (038997P)** |
| **flavocardia** | Räsänen | | | | | | | | ●● | | | | | | ● | | ● | | | | | | | ● | | **Anderson 1027( 039497P)** |
| **fragilescens var. mollis** | (Vainio) Clerc | | | | | | | | ● | | | | | | ● | | | | | | | | | ● | | **Casselman (013665P)** |
| **fulvoreagens** | (Räsänen) Räsänen | ● | ○ | | ● | ● | | ○ | ●● | ● | ● | ● | ● | | | | ● | ● | ● | | | | | ● | | **Casselman (013666P)** |
| **glabrata** | (Ach.) Vainio | | | | | ● | | | | | | | ●○ | | | | | | | | | | | | | **Anderson 779 (039477P)** |
| **glabrescens** | (Nyl. ex Vainio) Vainio | | | | | ○ | | | | | | | | | ●○ | | | | | | | | | | | **Brodo (CANL121196)** |
| **hirta** | (L.) F. H. Wigg. | | ● | | | ● | | | | | | | | | ● | | ●○ | | | | | | | | | **Brodo (CANL121203)** |
| **longissima** | Ach. | ● | | ●●○ | ● | ● | ● | ○ ● | ●●●○ | ● | ●●● | ○ | ● | | | ●● | | | | | | ●● | | | | **Erskine 1089 (013668P)** |
| **macaronesica** | P. Clerc | | | | | ●○ | | | | | | | ●○ | | | | | | | | | | ● | | | **Anderson CC725** |
| **merrillii** | Motyka | | | | | ● | ●○ | ● | | | | | ● | | | | ○● | | ●○○ | | | | | | | **Anderson 1383** |
| **mutabilis** | Stirton | ● | | | | | | | ● | ● | | | | | | | | | | | | | | | | **Cassselman (013669P)** |
| **rubicunda** | Stirton | | | | | | ● | | | | | | ●○ | | ● | | ● | | | | | | | | | **Anderson 1590757 (P)** |
| **scabrata** | Nyl. | | | | | ● | | | ● | | | ● | | | | | | ●● | | | | | | | | **Macoun (CANL17220)** |
| **schadenbergiana** | Göpp & Stein | | | ● | | ● | ●○○ | | ●● | | | | ● | | ●○ | | ●○ | | ●○ | | | | | | | **Anderson CC641 (038979P)** |
| **silesiaca** | Motyka | | | ● | | ● | | ○ | ●●○ | ● | | | | | ●● | ●● | ● | ● | ●● | | | | | | | **Anderson CC493 (038978P)** |
| **strigosa** | (Ach.) Eaton *s. lat.* | ●● | ○ | ● | ○ | ● | ●● | | ●●●● | | ●●● | ● | ●●●○ | ○ | ● | | ●●●● | ● | ●●● | | | | | | | **Sneddon C1323 (013673P)** |
| **subfloridana** | Stirton | ● | ●○ | ● | ● | ●○ | ● | | ●● | ● | ●● | | ● | | ● | ● | ●● | ●● | ● | | | ●● | | | | **Cameron (031662P)** |
| **subrubicunda** | P. Clerc | | | | | | | | | | | | ●○ | | | | | | | | | | | | | **Anderson 131** |
| **subscabrosa** | Motyka | | | | ● | ● | ● | | ●● | ● | | | ●○ | | ● | | ● | | ● | | | | | | | **Anderson 253** |
| **substerilis** | Motyka | | | | | | | ● | | | | | | | | | | | | | | | | | | **Anderson 150378 (P)** |
| **trichodea** | Ach. | ● | ○ | ● | ●● | ●○ | ●●●●○ | | | | | | ● | | ●●○ | | ●●○○ | ● | ● | | | | | | | **Macoun exic. #38 FH** |
| **Vahliella** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **leucophaea** | (Vahl) P. M. Jørg | ●○○ | | | ○ | ○ | | | | | | ● | | | ○ | | | | | | | | | | | **Maass 83D-6b** |
| **Vulpicida** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **pinastri** | (Scop.) J.-E. Mattsson & M. J. Lai | ● | | ● | ● | ● | | ●○ | ●● | | | ●● | ● | ○ | | | ● | ●● | | | | | | | | **G.M. Murphy 130 (CANL6133)** |
| **Xanthoparmelia** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **conspersa** | (Ehrh. ex Ach.) Hale | | | ●● | | | ● | | ●●○ | | ●● | ● | | | ●○ | | ●● | ● | ●●○ | | | | | | | **Erskine (013695P)** |
| **cumberlandia** | (Gyelnik) Hale | ● | | | | ● | | | ●●● | ●○ | ●● | | | | ●○ | | | ● | ● | | | | | | | **Erskine (013698P)** |
| **mougeotii** | (Schaerer) Hale | | | | | | | | | | | | | | ●○ | | ● | | | | | | | | | **Anderson 150609 (0469257P)** |
| **plittii** | (Gyelnk) Hale | | | ● | | ○ | | | ● | | | ● | | | | | | | ● | | | | | | | **Erskine (013694P)** |
| **tasmanica** | (Hooker f. & Taylor) Hale | | | | | | | | | | | | | | | | | | | | | | | | | **Anderson 150397** |
| **viriduloumbrina** | (Gyelnik) Lendemer | | | | | | ○ | | ●● | | | | ●● | | | ● | | | | | | | | | | **Casselman 90-36 (013701P)** |
| **Xanthoria** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **elegans** | (Link) Th. Fr. | | | ●● | | | | | ●● | | | | | | ● | | | | | | | | | | | **Erskine (013708P)** |
| **parietina** | (L.) Th. Fr. | | ○ | ● | ●●●○ | ●● | ●●● | ● | ●○ | ● | ●● | ● | ●● | ○ | ●● | ● | ● | ● | ●●● | ● | | ● | | | | **Erskine (013712P)** |
| **polycarpa** | (Hoffm.) Th. Fr. ex Rieber | | | ●● | | | ● | | ●● | | ●● | ● | ○ | ○ | | | | ● | ● | | | ●● | | | | **Sneddon C937 (013713P)** |

**Herbaria = ●** — **Personal Collections = ○**

| | |
|---|---|
| **ACAD = Acadia** | **F. Anderson** |
| **BG = University of Bergen, Norway** | **Sean Basquill** |
| **CANL = Canadian National Museum** | **Rob Cameron** |
| **CBU = Cape Breton University** | **Harold Clapp** |
| **H = Helsinki** | **Jim Hinds** |
| **HF = Farlow Herbarium, Harvard** | **Elisabeth Lay** |
| **NBM = New Brunswick Museum** | **Wolfgang Maass** |
| **NYBG = New York Botanical Garden** | **Tom Neily** |
| **NSDU = North Dakota State Universit** | **A.J. Roland (Kejimkujik National Park)** |
| **NSPM = Nova Scotia Museum** | **Mark Seaward** |
| **UBC = University of British Columbia** | |