

# THE MOSSES OF SASKATCHEWAN, CANADA

## A PROVINCIAL LIST

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### **Introduction**

The native grasslands in Saskatchewan are an increasingly endangered ecosystem. Much of this system has been permanently altered or destroyed by agricultural activities, and what remains is grazed by livestock as well as being subjected to industrial development pressures. The boreal ecosystems, as well, are being modified at an accelerated pace by industrial forest activities, providing a strong imperative for compiling all available information on the distribution of native mosses in both biomes. Without this baseline, it will be impossible to monitor changes in native species diversity related to human activities or evaluate the impact of climate change in the grasslands and forests of Saskatchewan.

The overall objective then is to contribute baseline data on the native moss flora that can be used to monitor changes in species ranges over space and time. This, first to date, list and geographic distribution of the moss flora of Saskatchewan is based on literature of North American mosses (Grout, 1931-1940, Lawton 1971, Bird 1973, Ireland 1982, Ireland et al. 1987, Crum 1988, Vitt et al. 1988, Johnson et al. 1995, de Vries 2000, Vujnovic and Gould 2002) as well as government and industry reports.

Voucher specimens, unpublished records and pertinent information on bryophytes from the George F. Ledingham Herbarium, University of Regina, Regina, Saskatchewan, Canada (USAS), University of Saskatchewan (SASK), University of Calgary (UAC), University of Alberta (ALTA), University of British Columbia (UBC), the national Museums Bryophyte Herbarium, Ottawa, Ontario, Canada (CANM) have also been incorporated.

Field data collected during the Forest Ecosystem Classification Survey, carried out by the Saskatchewan Forest Service between 1999 and 2005, collections made incidentally to other projects by earlier explorations, and personal observations have also been included. The list summarizes a total of 339 species, 17 varieties in 126 genera and 36 families.

The intent is to update this list periodically when new records for the Saskatchewan moss flora become known. Comments and criticisms are welcome and greatly appreciated and will be considered in future updates of this list. The nomenclature and author citation of the mosses follows largely that of Crum (1982).

For brevity, the list has been restricted to ecozones only. Within the Prairie ecozone, specimens have been recorded as: Prairie (specimens from the Prairie ecozone only);

Prairie (Cypress Hills) specimens recorded exclusively for this ecoregion; and, Prairie (including Cypress Hills Interprovincial Park refers to specimens recorded for the Prairie as well as the Park.

*Ecological Overview of the Province of Saskatchewan with an Emphasis on Mosses.*

**Physiography**

Three physiographic provinces - the Canadian Shield, the Central Lowlands, and the Great Plains converge in Saskatchewan in the heart of the North American continent. The transition between grassland and the boreal forests biomes of the continent occurs over about one third of the province (north to south).

As a result of this north-south change in climate and vegetation, and a general east – west change in elevation, there are ecocline variations in the province from northeast to southwest. This complex of climatic and geological gradients has been divided into four ecozones and the ecozones have been subdivided further into ecoregions (Padbury and Acton 1994).

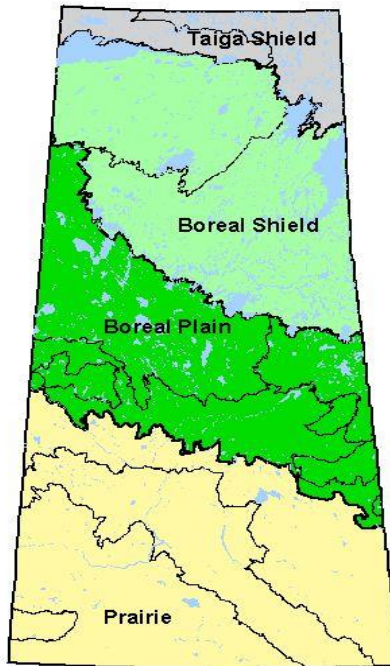


Figure 1. Ecozones and ecoregions of Saskatchewan.

These ecozones are from north to south: Taiga Shield, divided into the Tazin Lake Upland and Selwyn Lake Upland; the Boreal Shield, divided into the Athabasca Plain and the Churchill River Upland; the Boreal Plain, divided into the Mid-boreal Upland, Mid-boreal Lowland, and Boreal Transition; and, Prairie, divided into the Aspen Parkland, Moist Mixed Grassland, Mixed Grassland, and Cypress Upland.

### **Taiga Shield**

In the north-eastern portions of the ecozone, the underlying pre-cambrian rock is often covered with a thin layer of glacial till, bedrock outcroppings are more common south and west. This ecozone grades into the first outliers of a more open sub-arctic transition forest in the extreme northern and northeastern of the ecozone (Rowe 1972).

Taiga vegetation is characterized by its expanse of lichen woodlands and peatland vegetation of Black Spruce (*Picea mariana*) and *Sphagnum* species. Stands of Jackpine (*Pinus banksiana*) are only common in the western section of the ecozone. White Spruce (*Picea glauca*) is restricted to sheltered locations, while White, or Paper, Birch (*Betula papyrifera*) is scattered through upland sites.

Lichen woodlands, characterized by an open canopy structure, form the dominant forest type in the uplands. These ecosite types are typically partnered with several moss species, such as the Feather mosses (*Pleurozium schreberi* and *Hylocomnium splendens*).

Lowland forests are also characterized by an open structure in this ecozone. The predominant ground cover consists of *Sphagnum* mosses and other moss species including *Aulamomnium palustre* and *Climacium dendroides*.

### **Boreal Shield**

The forest increases in stature and floristic diversity with a greater dominance of Jackpine with a more significant admixture of White Birch and Trembling Aspen (*Populus tremuloides*) supported by a milder climate as one moves southward into the Boreal Shield, a bedrock-controlled ecozone south of the Taiga Shield. Jackpine becomes as common as Black Spruce. Lichen woodlands are still common but tend to be less open than physiognomically comparable forests on the Taiga Shield.

Mixed forests of broad-leaved and needle-leaved trees become common at the southern edge of the ecozone. The increase of deciduous trees causes a decline in the lichen flora which is unable to survive beneath the annual fall of deciduous broad leaves. A combination of higher precipitation and an abundance of dead woody material produce conditions for growth of diverse groupings of mosses as *Tetraphis pellucida*, *Oncophorus wahlenbergii*, and *Orthotrichum speciosum*.

### **Boreal Plain**

In this ecozone trees attain even greater stature on heavier-textured and warmer soils of upland sites. The southern edge of the ecozone supports extensive stands of Trembling Aspen, with Balsam Poplar (*Populus balsamiferus*) and White Birch primarily in riparian areas. Black Spruce and upland Jackpine stands to some extent, support epiphytic and terricolous lichen mats, usually intermixed with extensive ground-cover of feather mosses that dominate the understory of many mixed woods. In rapidly-drained Jackpine stands on sandy substrata the importance of graminoids, forbs and mosses is higher, relative to Jackpine stands of the Shield ecozones. Wetlands, in the form of *Sphagnum* peatlands and sedge fens, cover almost half the land base.

## **Prairie**

This ecozone contains two ecoregions with extensive woodland cover. The Aspen Parkland is characterized by aspen grove ecosystems and the extensive hardwood forests of Moose Mountains. Aspen groves support the so called Stocking Moss, *Pylaisella polycantha* as well as *Dicranum scoparium* and *Hypnum revolutum*.

The Cypress Uplands is characterized by extensive stands of Trembling Aspen, White Spruce, and Lodgepole Pine (*Pinus contorta*). The forests of Cypress Hills Interprovincial Park have a diversified moss flora mainly composed of unique boreal moss species (e.g. *Ceratodon purpureus*, *Dicranum polysetum*, *Drepanocladus uncinatus*, *Leptobryum pyriforme*, *Philonotis fontana*, *Ptilium crista-castrensis* and the rare *Sphagnum fuscum*, *Sphagnum teres* and *Sphagnum warnstorfi*).

Within the grassland-dominated landscapes of this ecozone there are many niches able to support mosses (e.g. shaded bases of glacial erratics, bases of trees and shrubs, crevices in rock-outcrops, or in wood-lands or riparian shrublands). Mosses found in these ecosites include *Brachythecium velutinum*, *Rhytidium rugosum* and *Tortella fragilis*.

## ***Historical Overview of Research on the Moss Flora of Saskatchewan***

Bryological exploration in Saskatchewan has been intermittent, and largely restricted to easily accessible roads, or shores of lakes and rivers by float plane or boat. This is especially true in the northern parts of the province where collections were often made in conjunction with other activities. As a result comparatively little is known of the geography of bryophytes in northern Saskatchewan. Published studies deal mainly with the easily accessible southern half of the province. Collections and reports from northern areas of Saskatchewan remain scattered.

The richest moss flora occupies the Prairie Ecozone. This is not surprising as this Ecozone includes the Cypress Upland Ecoregion with its diversified moss flora. The poorest moss flora occurs in the Taiga and Boreal Shield Ecozones.

Some of the earliest records were by Macoun who collected plants including mosses in the geographical area that is now Saskatchewan (Macoun 1892, 1902). After Macoun's work there was a long lapse in collecting activities. It was until 1961-1973 when significant contributions to the grassland flora including mosses were made by the late Dr. Jan Looman (1962 b. 1964a) working out of the federal government agricultural research station in Swift Current, Saskatchewan. de Vries (1963) reported on mosses from the Elbow Forest Preserve in the Prairie Ecozone (N.50° 58' W.106° 28').

Several authors published reports on Saskatchewan boreal forest mosses in the 1960's. George Argus made small moss collections on Beartooth Island (N.59° 13' W.109° 12') and in near Carswell Lake (N.58° 37' W.109° 20') in the Lake Athabasca area (Argus,

1964, Argus 1966a). Scotter (1961) reported on mosses at Black Lake (N.59° 12' W.105° 48'). All of these sites are in the Taiga Shield Ecozone.

In the late 1960s, the moss flora of the province was summarized by Bird in his catalogue and keys to the moss flora of the three Canadian Prairie Provinces (Bird, 1970,1972), and various collections made in west central Saskatchewan (Bird,1961,1962, 1969, and 1970), Vernon Harms, assisted by R.A. Wright, expanded the areal extent of bryophyte collections in boreal Saskatchewan during surveys carried out for the environmental impact assessments of several uranium mines located in the Boreal Shield Ecozone. These studies included collections near Collins Bay (N.58° 17' W.103° 38') and Hidden Bay (N.58° 06' W.103° 44') on the west shore of Wollaston Lake (Harms, 1977) and Cluff Lake (N.58° 22' W.109° 34' Harms, 1978). Their study on the Taiga Shield near Uranium City (Harms, 1982) noted specimens from the north shore of Lake Athabasca. The 1990s saw a systematic collection effort from the Saskatchewan Provincial Parks system.

Wright et al. (1993) listed mosses collected in Narrow Hills Provincial Park (N.54° 00' W.104° 37'). Systematic collections of mosses were also done during the Forest Ecosystem Classification Surveys (de Vries 1999-2005). Additional moss surveys were made by Bird (1962 and 1970), the Vries (1992) and Ledingham (1997) in Cypress Hills Interprovincial Park, or in conjunction with surveys on vascular flora. Belland (personal correspondence, 2010) and the Saskatchewan Conservation Data Centre, Saskatchewan Non-Vascular Plant Species List, Regina, Saskatchewan (January 2011) provided up-to-date lists of Saskatchewan mosses.

An additional study was made on sub-fossil mosses of a late glacial deposit in southern Saskatchewan (deVries and Bird 1965). The location (50° 00''N, 105° 00''W) in the vicinity of Lillestrom, Saskatchewan is found in the Mixed Grassland Ecoregion. Species found included *Bryorythrophyllum recurvirostrum*, *Tortula mucronifolia*, *Bryum inclinatum*, *Bryum pseudoitriquetrum*, *Leptobryum pyriforme*, *Abietinella abietinum*, *Amblystegium juratzkanum*, *Drepanocladus aduncus* var *aduncus*, *Drepanocladus aduncus* var *polycarpus*, *Drepanocladus uncinatus*, *Leptodictyum trichopodium*, *Hypnum cupressiforme*, *Hypnum revolutum*, *Pylaisella polycantha*, *Hylocomium splendens* and several species identified to the *Sphagnum* and *Distichium* genus only. These records date from 12,000 to 10,000 years BP and are typical of *Picea* – *Populus* forests now found 300km further north (deVries and Bird 1965).

One of the serious impediments to further amplification of our knowledge of the Saskatchewan moss flora is the scarcity of trained bryologists in provincial or federal Governments, established bryophyte systematic programs in Canadian Universities, and under-funded bryophytic research and study grants. These serious short-comings are the main barriers to advancing our knowledge of the bryophyte flora in every ecozone and ecoregion of Saskatchewan.

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## The Mosses of Saskatchewan, Canada

(Sorted by Family, Genus and Species. With Ecozonal Distribution)

List compiled by Bernard De Vries

Dated: October-2015

Web Listing maintained by the Saskatchewan Conservation Data Centre

\* denotes species for which no ecozone is known.

Species	Authority	Ecozone(s)
<b>Amblystegiaceae</b>		
<i>Amblystegium serpens</i>	(Hedwig) B.S.G.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park),
<i>Amblystegium serpens</i> var. <i>juratzkanum</i>	(Schimp.) Rau & Hedwig	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Amblystegium varium</i>	(Hedwig) Lindb.	Boreal Plain Prairie
<i>Calliergon cordifolium</i>	(Hedwig) Kindb.	Taiga Shield Boreal Plain
<i>Calliergon giganteum</i>	(Schimp.) Kindb.	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Calliergon obtusifolium</i>	Kar	Taiga Shield Boreal Shield Boreal Plain
<i>Calliergon richardsonii</i>	(Mitt.) Kindb. ex Warnst.	Taiga Shield Boreal Plain
<i>Calliergon stramineum</i>	(Brid.) Kindb.	Taiga Shield Boreal Shield
<i>Calliergon trifarium</i>	(Web. & Mohr) Kindb.	*
<i>Calliergonella cuspidata</i>	(Hedwig) Loeske	Boreal Plain
<i>Campylium chrysophyllum</i>	(Brid.) J. Lange	Boreal Plain Prairie
<i>Campylium hispidulum</i>	(Brid.) Mitt	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Campylium polygamum</i>	(B.S.G.) C. Jens.	Boreal Shield
<i>Campylium radicale</i>	(P. Beauv.) Grout	Prairie
<i>Campylium stellatum</i>	(Hedwig) C. Jens.	Taiga Shield Boreal Shield Boreal Plain Prairie

Species	Authority	Ecozone(s)
<i>Conardia compacta</i>	(C. Müll.) Robins.	Prairie (Cypress Hills Interprovincial Park)
<i>Cratoneuron filicinum</i>	(Hedwig) Spruce	Taiga Shield Boreal Plain Prairie
<i>Drepanocladus aduncus</i> var. <i>kneiffii</i>	(B.S.G.) Mönk.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Drepanocladus aduncus</i> var. <i>polycarpus</i>	(Bland. ex Voit) Roth	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Drepanocladus capillifolius</i>	(Warnst.) Warnst.	*
<i>Drepanocladus sendtneri</i>	(Schimp.) Warnst.	*
<i>Hamatocaulis vernicosus</i>	(Mitt.) Hed.	Taiga Shield Boreal Plain Prairie
<i>Hygroamblystegium tenax</i> var. <i>tenax</i>	(Hedwig) Jenn.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Hygrohypnum luridum</i>	(Hedwig) Jenn.	Prairie
<i>Leptodictyum humile</i>	(P. Beauv.) Ochyra	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Leptodictyum riparium</i>	(Hedwig) Warnst.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Limprichtia cossoni</i>	(Schimp., Anders., Crum & Buck	*
<i>Limprichtia revolvens</i>	(Sw.) Wrnst.	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Loeskyppnum badium</i>	(Hartm.) Paul.	*
<i>Palustriella commutata</i>	(Hedwig) Och.	Boreal Shield
<i>Platydictya confervoides</i>	(Brid.) Crum	*
<i>Platydictyla jungermannioides</i>	(Brid.) Crum	Taiga Shield Boreal Shield
<i>Pseudocalliergon turgescens</i>	(T. Jens.) Loeske	*
<i>Sanionia uncinata</i>	(Hedwig) Warnst.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Sarmenthyppnum sarmentosum</i>	(Wahlenb.) Tuom. & T. Kop.	*

Species	Authority	Ecozone(s)
<i>Scorpidium scorpioides</i>	(Hedwig) Limpr.	Boreal Plain Prairie
<i>Warnstorfia exannulata</i> var <i>exannulata</i>	(Schimp. in B.S.G.) Loeske	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Warnstorfia fluitans</i> var <i>fluitans</i>	(Hedwig) Loeske	Boreal Shield Boreal Plain Prairie
<i>Warnstorfia pseudostraminea</i>	(Müll.) Tuomik. & Kop.	*
<b>Andreaeaceae</b>		
<i>Andreaea crassinervia</i>	Bruch.	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Andreaea nivalis</i>	Hook.	Prairie
<i>Andreaea rothii</i> var <i>rothii</i>	Weber & Mohr	Boreal Shield Boreal Plain Prairie
<b>Aulacomniaceae</b>		
<i>Aulacomnium androgynum</i>	(Hedwig) Schwaegr.	Prairie (Cypress Hills Interprovincial Park)
<i>Aulacomnium palustre</i>	(Hedwig) Schwaegr.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Aulacomnium turgidum</i>	(Wahlenb.) Schwaegr.	Prairie (including Cypress Hills Interprovincial Park)
<b>Bartramiaceae</b>		
<i>Bartramia ithyphylla</i>	Brid.	*
<i>Bartramia pomiformis</i>	Hedwig	Boreal Shield
<i>Philonotis fontana</i> var. <i>americana</i>	(Dism.) Flow. ex Crum	Prairie (Cypress Hills Interprovincial Park)
<i>Philonotis fontana</i> var. <i>pumila</i>	(Turn.) Brid	Boreal Shield
<i>Plagiopus oederiana</i>	(Sw.) Limpr.	Prairie (Cypress Hills Provincial Park)
<b>Brachytheciaceae</b>		
<i>Brachythecium acuminatum</i>	(Hedwig) Austr.	Boreal Plain Prairie (Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Brachythecium albicans</i>	(Hedwig) B.S.G.	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Brachythecium calcareum</i>	Kindb.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Brachythecium campestre</i>	(C. Müll) B.S.G.	*
<i>Brachythecium collinum</i>	(Schleich. ex C. Müll) B.S.G.	Prairie (including Cypress Hills Interprovincial Park)
<i>Brachythecium glareosum</i>	(Spruc.) B.S.G.	Prairie (Cypress Hills Interprovincial Park)
<i>Brachythecium digastrum</i>	C. Müll. & Kindb.	*
<i>Brachythecium mildeanum</i>	(Schimp.) Schimp.	Boreal Plain Prairie
<i>Brachythecium oxycladon</i>	(Brid.) Jaeg. & Sauerb.	*
<i>Brachythecium plumosum</i>	(Hedwig) B.S.G.	Boreal Plain
<i>Brachythecium populeum</i>	(Hedwig) B.S.G.	Boreal Plain Prairie
<i>Brachythecium reflexum</i>	(Starke ex Web. & Mohr) B.S.G.	Boreal Plain Prairie
<i>Brachythecium rivulare</i>	B.S.G.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Brachythecium rutabulum</i>	(Hedwig) B.S.G.	Prairie (Cypress Hills Interprovincial Park)
<i>Brachythecium salebrosum</i>	(Web. & Mohr) B.S.G.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Brachythecium starkei</i>	(Brid.) Schimp.	*
<i>Brachythecium turgidum</i>	(C.J. Hartm.) Kindb.	Boreal Plain Prairie
<i>Brachythecium velutinum</i>	(Hedwig) B.S.G.	Prairie (Cypress Hills Interprovincial Park)
<i>Bryhnia novae-angliae</i>	(Sull.) Grout	Prairie
<i>Cirriphyllum cirrosum</i>	(Schwaegr. ex Schultes) Grout	Boreal Plain
<i>Eurhynchium pulchellum</i>	(Hedwig) Jenn.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Scleropodium cespitans</i>	(C. Müll.) L. Koch	Taiga Shield Boreal Shield Boreal Plain
<i>Tomenthypnum nitens</i>	(Hedwig) Loeske	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Tomentypnum falcifolium</i>	(Ren. ex Nichols) Tuom.	*
<b>Bryaceae</b>		
<i>Bryum algovicum</i>	Sendtn. ex C. Müll.	Prairie
<i>Bryum amblyodon</i>	C. Müll	Boreal Shield Prairie (Cypress Hills Interprovincial Park)
<i>Bryum arcticum</i>	(R. Br.) B.S.G	*
<i>Bryum argenteum</i>	Hedwig	Boreal Plain Prairie
<i>Bryum caespiticium</i>	Hedwig	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Bryum capillare</i>	Hedwig	Boreal Plain Prairie
<i>Bryum dichotomum</i>	Hedwig	*
<i>Bryum imbricatum</i>	(Schwaegr.) Bruch & Schimp.	*
<i>Bryum knowltonii</i>	Barnes	Boreal Shield
<i>Bryum lisae</i> var. <i>cuspidatum</i>	(B.S.G) Marg.	Taiga Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Bryum lonchocaulon</i>	C. Müll.	Prairie
<i>Bryum pallescens</i>	Schleich. ex Schwaegr.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Bryum pseudotriquetrum</i>	(Hedwig) Gaertn., Meyer & Scherb	Taiga Shield Boreal Shield Prairie; (including Cypress Hills Interprovincial Park)
<i>Bryum turbinatum</i>	(Hedwig) Turn.	Boreal Plain Prairie
<i>Bryum uliginosum</i>	(Brid.) B.S.G	Boreal Plain Prairie
<i>Leptobryum pyriforme</i>	(Hedwig) Wils.	Taiga Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Pohlia bulbifera</i>	(Warnst.) Warnst.	*
<i>Pohlia cruda</i>	(Hedwig) Lindb.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Pohlia drummondii</i>	(C. Muell.) Andr.	*
<i>Pohlia filum</i>	(Schimp.) Mart.	Boreal Plain
<i>Pohlia nutans</i>	(Hedwig) Lindb.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Pohlia prolifera</i>	(Kindb. ex Breidl.) Lindb. ex H. Arnell	*
<i>Pohlia sphagnicola</i>	(B.S.G) Lindb. & Arnell	Taiga Shield Boreal Shield Boreal Plain
<i>Pohlia vexans</i>	(Limpr.) H. Lindb.	Taiga Shield Boreal Shield Boreal Plain
<i>Pohlia wahlenbergii</i>	(Web. & Mohr) Andr.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Rhodobryum ontariense</i>	(Kindb.) Kindb.)	Boreal Plain
<b>Buxbaumiacea</b>		
<i>Buxbaumia aphylla</i>	Hedwig	*
<b>Catoscopiaceae</b>		
<i>Catascopium nigratum</i>	(Hedwig) Brid.	Boreal Plain
<b>Climaciaceae</b>		
<i>Climacium americanum</i>	Brid.	Prairie
<i>Climacium dendroides</i>	(Hedwig) Web. & Mohr	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<b>Ditrichaceae</b>		
<i>Ceratodon purpureus</i>	(Hedwig) Brid.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Distichium capillaceum</i>	(Hedwig) B.S.G.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Distichium inclinatum</i>	(Hedwig) B.S.G. (Hedwig) B.S.G.	Prairie?
<i>Ditrichum ambiguum</i>	Best.	Taiga Shield Boreal Shield Boreal Plain
<i>Ditrichum flexicaule</i>	(Schwaegr.) Hampe	Taiga Shield Boreal Shield Boreal Plain
<i>Ditrichum pusillum</i>	(Hedwig) Hampe	Boreal Plain Prairie
<i>Pleuridium subulatum</i>	(Hedwig) Rabh.	Boreal Plain
<i>Trichodon cylindricus</i>	(Hedwig) Schimp.	Taiga Shield Boreal Plain
<b>Dicranaceae</b>		
<i>Cynodontium alpestre</i>	(Hüb.) Milde.)	Taiga Shield Boreal Shield
<i>Cynodontium polycarpum</i>	(Hedwig) Schimp.	Boreal Plain
<i>Cynodontium schisti</i>	(Web. & Mohr) Lindb.	*
<i>Cynodontium strumiferum</i>	(Hedwig) Lind.	Taiga Shield Boreal Shield
<i>Cynodontium tenellum</i>	(B.S.G.) Limpr.	Boreal Plain
<i>Dichodontium pellucidum</i>	(Hedwig) Schimp.	Boreal Plain
<i>Dicranella cerviculata</i>	(Hedwig) Schrimp.	Boreal Plain
<i>Dicranella grevilleana</i>	(Brid.) Schimp.	Boreal Plain
<i>Dicranella heteromalla</i>	(Hedwig) Schimp.	Boreal Plain
<i>Dicranella schreberiana</i>	(Hedwig) Schimp.	*
<i>Dicranella varia</i>	(Hedwig) Schimp.	Boreal Plain Prairie
<i>Dicranoweisia cirrata</i>	(Hedwig) Lindb.	Prairie (Cypress Hills Interprovincial Park)
<i>Dicranum acutifolium</i>	(Lindb. & Arnell) C. Jens.	Taiga Shield Boreal Plain
<i>Dicranum bonjeanii</i>	de Not. ex Lisa	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Dicranum elongatum</i>	Schleich. ex Schwaegr.	Taiga Shield Boreal Shield
<i>Dicranum flagellare</i>	Hedwig	Boreal Shield Boreal Plain

Species	Authority	Ecozone(s)
<i>Dicranum fragilifolium</i>	Lind.	Taiga Shield Boreal Shield Boreal Plain
<i>Dicranum fuscescens</i>	Turn.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Dicranum groenlandicum</i>	Brid.	*
<i>Dicranum montanum</i>	Hedwig	Boreal Plain?
<i>Dicranum muehlenbeckii</i>	B.S.G.	*
<i>Dicranum ontariense</i>	Peters	Boreal Plain
<i>Dicranum polysetum</i>	Sw.	Taiga Shield Boreal Shield Boreal Plain? Prairie (Cypress Hills Interprovincial Park)
<i>Dicranum scoparium</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain
<i>Dicranum spadiceum</i>	Lindb.	Taiga Shield Boreal Shield
<i>Dicranum tauricum</i>	Sapew.	Boreal Plain
<i>Dicranum viride</i>	(Sull.) Lesq.	*
<i>Kiaeria blyttii</i>	(Schimp.) Broth.	Boreal Shield?
<i>Oncophorus virens</i>	(Hedwig) Brid.	Taiga Shield Boreal Shield Boreal Plain
<i>Onchophorus wahlenbergii</i>	Brid.	Boreal Plain Prairie
<i>Paraleucobryum longifolium</i>	(Hedwig) Loeske	Boreal Plain Prairie
<b>Encalyptaceae</b>		
<i>Encalypta brevicolla</i>	(Bruch & Schimp.) Angström	*
<i>Encalypta procera</i>	Bruch.	Taiga Shield Boreal Shield
<i>Encalypta rhaptocarpa</i>	Schwaegr.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Encalypta vulgaris</i>	Hedwig	Taiga Shield Boreal Shield Prairie



Species	Authority	Ecozone(s)
<b>Entodontaceae</b>		
<i>Entodon cladorrhizans</i>	(Hedwig) C. Müll.	Prairie
<i>Orthothecium chryseum</i>	(Schwaegr. ex Schultes) B.S.G.	*
<i>Pleurozium schreberi</i>	(Brid.) Mitt.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Pterigynandrum filiforme</i>	Hedwig	*
<b>Ephemeraceae</b>		
<i>Ephemerum crassinervium</i>	(Schwaegr.) Hampe	*
<i>Ephemerum serratum</i>	(Hedwig) Hampe	Boreal Plain
<i>Ephemerum spinulosum</i>	Bruch & Schimp.	*
<i>Physcomitrium hookeri</i>	Hampe	Boreal Plain Prairie
<i>Physcomitrium pyriforme</i>	(Hedwig) Brid.	Prairie
<b>Fissidentaceae</b>		
<i>Fissidens adianthoides</i>	Hedwig	*
<i>Fissidens bryoides</i>	Hedwig	Boreal Plain
<i>Fissidens osmundioides</i>	Hedwig	Boreal Plain
<i>Fissidens pauperculus</i>	Howe	*
<b>Fontinalaceae</b>		
<i>Dichelyma falcatum</i>	(Hedwig) Myr.	Prairie
<i>Fontinalis antipyretica</i>	Hedwig	*
<i>Fontinalis dalecarlica</i>	Schimp. ex B.S.G	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Fontinales hypnoides</i>	C.J. Hartm.	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Fontinales hypnoides</i> var <i>duriaei</i>	(Schimp.) Husn.	Prairie (including Cypress Hills Interprovincial Park)
<b>Funariaceae</b>		
<i>Funaria hygrometrica</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Entosthodon rubiginosus</i>	Grout.	*
<b>Grimmiaceae</b>		

Species	Authority	Ecozone(s)
<i>Grimmia affinis</i>	Hoppe & Hornsch. ex Hornsch.	*
<i>Grimmia anodon</i>	B.S.G.	Boreal Shield Prairie (including Cypress Hills Interprovincial Park)
<i>Grimmia donniana</i>	Sm.	*
<i>Grimmia plagiopodia</i>	Hedwig	Prairie
<i>Grimmia teretinervis</i>	Limpr.	Prairie
<i>Racomitrium affine</i>	(Schleich. ex Web. & Mohr) Lindb.	Taiga Shield Boreal; Shield Boreal Plain
<i>Racomitrium canescens</i>	(Hedwig) Brid.	Taiga Shield
<i>Racomitrium heterostichum</i>	(Hedwig) Brid.	*
<i>Racomitrium sudeticum</i>	(Funck) Bruch & Schimp.	*
<i>Schistidium agassazii</i>	(Sull. & Lesq. ex Sull.) Jaeg. & Sauerb.	Prairie
<i>Schistidium apocarpum</i>	Hedwig	Prairie
<i>Schistidium boreale</i>	Poelt	*
<i>Schistidium pulchrum</i>	(Lindb. ex Braithw.) Warnst.	*
<i>Schistidium rivulare</i>	(Brid.) Pod.	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Schistidium tenerum</i>	(Zett.) Nyholm	*
<b>Hedwigiaceae</b>		
<i>Hedwigia ciliata</i>	(Hedwig) P. Beauv.	Boreal Shield Boreal Plain
<b>Hylocomiaceae</b>		
<i>Hylocomium splendens</i>	(Hedwig) B.S.G.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Pleurozium schreberi</i>	(Brid.) Mitt.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<b>Hypnaceae</b>		
<i>Callicladium haldanianum</i>	(Grev.) Crum	Prairie
<i>Herzogiella seligeri</i>	(Brid.) Iwats.	*
<i>Herzogiella straitella</i>	(Brid.) Iwats.	*

Species	Authority	Ecozone(s)
<i>Herzogiella turfacea</i>	(Lindb.) Iwats.	Prairie (Cypress Hills Interprovincial Park)
<i>Homomallium adnatum</i>	(Hedwig) Broth.	Prairie (including Cypress Hills Interprovincial Park)
<i>Hypnum bambergeri</i>	Schimp.	*
<i>Hypnum cupressiforme</i>	Hedwig	Taiga Shield Boreal Shield Prairie
<i>Hypnum fauriei</i>	Cardot	*
<i>Hypnum fertile</i>	Sendtn.	Boreal Plain
<i>Hypnum hamulosum</i>	Schimp. in B.S.G.	Taiga Shield Boreal Shield Boreal Plain
<i>Hypnum lindbergii</i>	Mitt.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Hypnum pallescens</i>	(Hedwig) P. Beauv.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Hypnum pratense</i>	Koch. ex Brid.	Taiga Shield Boreal Plain
<i>Hypnum recurvatum</i>	Crum.	Taiga Shield Boreal Shield
<i>Hypnum revolutum</i>	(Mitt.) Lindb.	Prairie (including Cypress Hills Interprovincial Park)
<i>Hypnum vaucheri</i>	Lesq.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Platydictya confervoides</i>	(Brid.) Crum.	*
<i>Platydictya jungermannioides</i>	(Brid.) Crum	Taiga Shield Boreal Shield Boreal Plain
<i>Platygyrium repens</i>	(Brid.) B.S.G.	Boreal Plain Prairie
<i>Ptilium crista-castrensis</i>	(Hedwig) De Not.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Pylaisiella polyantha</i>	(Hedwig) Grout	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Taxiphyllum deplanatum</i>	(Bruch & Schrimp. ex Sull.) Fleisch.	Taiga Shield Boreal Shield Boreal Plain
<b>Leskeaceae</b>		
<i>Leskea gracilescens</i>	Hedwig	Prairie
<i>Leskea obscura</i>	Hedwig	Prairie
<i>Leskea polycarpa</i>	Hedwig	Prairie
<i>Leskeella nervosa</i>	(Brid.) Loeske	Boreal Plain Prairie
<i>Pseudoleskea incurvata</i>	(Hedwig) Loeske	*
<i>Pseudoleskea patens</i>	(Lindb.) Kindb.	Prairie
<i>Pseudoleskeella tectorum</i>	(Funck ex Brid.) Kindb. ex Broth.	Prairie
<i>Pterigynandrum filiforme</i>	Hedwig	Prairie
<b>Meeseaceae</b>		
<i>Meesia triquetra</i>	(Richt.) Angstr	Prairie
<i>Meesia uliginosa</i>	Hedwig	Boreal Shield
<i>Paludella squarrosa</i>	(Hedwig) Brid.	Boreal Shield Boreal Plain
<b>Mniaceae</b>		
<i>Cinclidium stygium</i>	Sw.	Taiga Shield Boreal Shield Boreal Plain
<i>Cyrtomnium hymenophylloides</i>	(Hueb.) Kop.	Boreal Plain Prairie
<i>Mnium affine</i>	Bland	Prairie (including Cypress Hills Interprovincial Park)
<i>Mnium ambiguum</i>	Müll. Müll.	*
<i>Mnium marginatum</i>	(With.) Brid. ex P.Beauv.	Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Mnium spinulosum</i>	B.S.G.	Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Mnium stellare</i>	Reichard ex Hedwig	*
<i>Mnium thomsonii</i>	Schimp.	*
<i>Plagiomnium ciliare</i>	(C. Mull.) Kop.	Prairie (including Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Plagiomnium cuspidatum</i>	(Hedwig) Kop.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Plagiomnium drummondii</i>	(Bruch & Schimp.) Kop.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Plagiomnium ellipticum</i>	(Brid.) Kop.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Plagiomnium medium</i>	(B.S.G.) Kop.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Plagiomnium rostratum</i>	(Schrad.) Kop.	Boreal Plain Prairie
<i>Pseudobryum cinclidioides</i>	(Hub.) Kop.	Prairie
<i>Rhizomnium andrewsianum</i>	(Steere) Kop.	Boreal Shield
<i>Rhizomnium gracile</i>	Kop.	*
<i>Rhizomnium magnifolium</i>	(Horikawa) Kop.	*
<i>Rhizomnium pseudopunctatum</i>	(Bruch & Schimp) Kop.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Rhizomnium punctatum</i>	(Hedwig) Kop.	*
<b>Neckerraceae</b>		
<i>Neckera pennata</i>	Hedwig	Taiga Shield
<b>Orthotrichaceae</b>		
<i>Amphidium lapponicum</i>	(Hedwig) Schimp.	*
<i>Orthotrichum affine</i>	Brid.	*
<i>Orthotrichum anomalum</i>	Hedwig	Taiga Shield Boreal Plain Prairie
<i>Orthotrichum laevigatum</i>	Zett.	*
<i>Orthotrichum obtusifolium</i>	Brid.	Boreal Plain Prairie
<i>Orthotrichum pumilum</i>	Sw.	Boreal Plain Prairie
<i>Orthotrichum rupestre</i>	Schleich ex Schwaegr.	Taiga Shield
<i>Orthotrichum speciosum</i> var. <i>elegans</i>	(Schwaegr. ex Hook. & Grev.) Warnst	Taiga Shield Boreal Shield Boreal Plain Prairie
<i>Orthotrichum stellatum</i>	Brid.	Prairie

Species	Authority	Ecozone(s)
<i>Orthotrichum strangulatum</i>	P.Beauv.	Taiga Shield Boreal Shield Boreal Plain
<i>Ulota crispa</i>	(Hedwig) Brid.	Boreal Shield
<i>Ulota curvifolia</i>	(Wahlenb.) Lilj.	Prairie
<b>Plagiotheciaceae</b>		
<i>Isopterygiopsis pulchella</i>	(Hedwig) Iwats.	*
<i>Plagiothecium denticulatum</i>	(Hedwig) B.S.G.	Boreal Shield Prairie (including Cypress Hills Interprovincial Park)
<i>Plagiothecium laetum</i>	B.S.G.	Boreal Plain
<b>Polytrichaceae</b>		
<i>Atrichum selwynii</i>	Aust.	Prairie (Cypress Hills Interprovincial Park)
<i>Atrichum tenellum</i>	(Röhl.) B.S.G.	*
<i>Atrichum undulatum</i>	(Hedwig) P. Beauv.	Prairie (Cypress Hills Interprovincial Park)
<i>Pogonatum urnigerum</i>	(Hedwig) Beauv.	*
<i>Polytrichum commune</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain
<i>Polytrichum commune</i> var. <i>jensenii</i>	(Hag.) Moenk.	Taiga Shield
<i>Polytrichum formosum</i>	Hedwig	Taiga Shield
<i>Polytrichum juniperinum</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Polytrichum longisetum</i>	Brid.	Taiga Shield Boreal Shield
<i>Polytrichum pallidisetum</i>	Funck	*
<i>Polytrichum piliferum</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Polytrichum strictum</i>	Brid.	Taiga Shield Boreal Shield Boreal Plain Prairie
<b>Pottiaceae</b>		
<i>Acaulon muticum</i> var. <i>rufescens</i>	(Jaeg.) Crum	*
<i>Acaulon triquetrum</i>	(Spruce) C. Müll.	Boreal Plain

Species	Authority	Ecozone(s)
<i>Aloina brevirostris</i>	(Hook. & Grev.) Kindb.	*
<i>Astomum mühlenbergianum</i>	(Sw.) Grout	Boreal Plain
<i>Astomum phascoides</i>	(Hook. ex Crum.) Grout	Boreal Plain
<i>Barbula convoluta</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain
<i>Barbula unguiculata</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain
<i>Bryoerythrophyllum recurvirostre</i>	(Hedwig) Chen	Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Desmatodon cernuus</i>	(Hüb.) Bruch & Schimp.	*
<i>Desmatodon heimii</i>	(Hedwig) Mitt.	Prairie (including Cypress Hills Interprovincial Park)
<i>Desmatodon obtusifolius</i>	(Schwaeger.) Schimp.	Boreal Plain Prairie
<i>Didymodon fallax</i> var. <i>fallax</i>	(Hedwig) Zand.	Prairie
<i>Didymodon rigidulus</i> var. <i>gracilis</i>	(Schleicher ex W.J. Hook. & Greville) Zander	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Gymnostomum aeruginosum</i>	Sm.	*
<i>Phascum cuspidatum</i>	Hedwig	Boreal Plain
<i>Pottia bryoides</i>	(Dicks.) Mitt.	Boreal Plain
<i>Pottia intermedia</i>	(Turn.) Fürnr.	Prairie
<i>Pottia nevadensis</i>	Card. and Thér.	Taiga Shield Boreal Shield Boreal Plain
<i>Pterygoneurum kozlovii</i>	Laz.	Prairie
<i>Pterygoneurum ovatum</i>	(Hedwig) Dix.	Boreal Plain Prairie
<i>Pterygoneurum sessile</i>	(Brid.) Jur.	Boreal Plain Prairie
<i>Tortella fragilis</i>	(Drum.) Limpr.	Prairie (Cypress Hills Interprovincial Park)
<i>Tortella tortuosa</i>	(Hedwig) Limpr.	Boreal Shield Prairie
<i>Tortula mucronifolia</i>	Schwaegr.	Boreal Plain Prairie (including Cypress Hills Interprovincial Park)

Species	Authority	Ecozone(s)
<i>Tortula ruralis</i>	(Hedwig) Gaertn.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Weissia controversa</i>	Hedwig	Boreal Plain Prairie
<b>Rhytidaceae</b>		
<i>Rhytidiadelphus triquetrus</i>	(Hedwig) Warnst.	Boreal Plain
<i>Rhytidium rugosum</i>	(Hedwig) Kindb.	Taiga Shield Boreal Shield
<b>Sphagnaceae</b>		
<i>Sphagnum angustifolium</i>	(C.Jens ex Russ.) C. Jens	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum annulatum</i>	H. Lindb. Ex Warnst.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum balticum</i>	Russ.	Boreal Plain
<i>Sphagnum capillifolium</i>	(Ehrh.) Hedwig	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum centrale</i>	C. Jens	Boreal Shield Boreal Plain
<i>Sphagnum compactum</i>	DC. ex Lam. & DC.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum contortum</i>	Schultz.	Taiga Shield
<i>Sphagnum cuspidatum</i>	Ehrh. ex Hoffm.	Taiga Shield
<i>Sphagnum fallax</i>	Klinggr.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum fimbriatum</i>	Wills. ex Wills. & Hook	*
<i>Sphagnum fuscum</i>	(Schimp.) Klinggr.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Sphagnum girgensohnii</i>	Russ.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum jensenii</i>	Lindb.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum lindbergii</i>	Schimp.	Taiga Shield



Species	Authority	Ecozone(s)
<i>Sphagnum magellanicum</i>	Brid.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum majus</i>	(Russss.) C. Jens.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum obtusum</i>	Warnst.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum platyphyllum</i>	(Linb.) Sull.	Taiga Shield Boreal Shield
<i>Sphagnum quinquefarium</i>	(Lindb. ex Braithw.) Warnst.	*
<i>Sphagnum recurvum</i>	Palisot de Beauvois	*
<i>Sphagnum riparium</i>	Angstr.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum rubellum</i>	Wils	Taiga Shield Boreal Plain
<i>Sphagnum russowii</i>	Warnst	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum squarrosum</i>	Crome	Taiga Shield Boreal Plain
<i>Sphagnum subsecundum</i>	Nees	Boreal Shield
<i>Sphagnum tenellum</i>	(Brid.) Pers. ex Brid.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum tenerum</i>	Sullivan & Lesquereux ex Sullivant	*
<i>Sphagnum teres</i>	(Schimp.) Angstr. ex C. Hartm.	Taiga Shield Boreal Shield Boreal Plain
<i>Sphagnum warnstorffii</i>	Russ.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<i>Sphagnum wulfianum</i>	Girg.	Taiga Shield Boreal Shield
<b>Splachnaceae</b>		
<i>Splachnum ampullaceum</i>	Hedwig	Taiga Shield
<i>Splachnum luteum</i>	Hedwig	Taiga Shield Boreal Plain

Species	Authority	Ecozone(s)
<i>Splachnum rubrum</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain
<i>Splachnum sphaericum</i>	Hedwig	*
<i>Tayloria lingulata</i>	(Dicks.) Lindb.	Taiga Shield
<i>Tayloria serrata</i>	(Hedwig) B.S.G.	*
<i>Tetraplodon angustatus</i>	(Hedwig) Bruch & Schimp.	*
<i>Tetraplodon mnioides</i>	(Hedwig) B.S.G.	Taiga Shield
<b>Tetraphidaceae</b>		
<i>Tetraphis pellucida</i>	Hedwig	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<b>Theliaceae</b>		
<i>Myurella julacea</i>	(Schwaegr.) B.S.G.	Boreal Shield Boreal Plain
<b>Thuidiaceae</b>		
<i>Abietinella abietina</i>	(Hedwig) Fleisch.	Taiga Shield Boreal Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Anomodon rostratus</i>	(Hedwig) Schimp.	*
<i>Bryohaplocladium microphyllum</i>	(Hedwig) Broth.	Prairie
<i>Bryohaplocladium virginianum</i>		*
<i>Helodium blandowii</i>	(Web. & Mohr) Warnst.	Taiga Shield Boreal Plain Prairie (including Cypress Hills Interprovincial Park)
<i>Thuidium delicatulum</i>	(Hedwig) B.S.G.	Boreal Plain Prairie?
<i>Thuidium philibertii</i>	Limpr.	Boreal Shield
<i>Thuidium recognitum</i>	(Hedwig) Lindb.	Taiga Shield Boreal Shield Boreal Plain Prairie (Cypress Hills Interprovincial Park)
<b>Timmiaceae</b>		
<i>Timmia austriaca</i>	Hedw	Prairie (Cypress Hills Interprovincial Park)
<i>Timmia megapolitana</i>	Hedwig	Prairie

Species	Authority	Ecozone(s)
<i>Timmia megapolitiana</i> var. <i>bavarica</i>	(Hessl.) Brid.	*