## Key to the Genera of Brown Foliose Lichens of Alberta v. 2025

## Encompasses 99 species across 13 genera.

Brown is one of those variable colors – brownish specimens that are wet can appear green, and many species not normally browned can become melanotic with increased sun exposure. For that reason, you should use a general genus key like Goward's (1994) Key D: Stratified foliose lichen genera the first time you work through an unknown specimen. Here I've provided a short key to help with some of the most common brown species in Alberta but it does not include squamulose genera *Endocarpon*, *Massalongia*, *Myriospora*, *Parmeliella*, *Placidium*, *Protopannaria*, *Psora*, *Psoroma*, *Romjularia*.

**PARTIAL KEY to the Brown Foliose Species of Alberta** - only specimens with a uniformly brown upper cortex will key out here. Squamulose genera are excluded.

<ul><li>1a. Fruticose or appearing fruticose, the latter flattened with ascending lobes</li><li>1b. Clearly foliose, often with tomentum or rhizines on the lower cortex, or lacking a lower cortex</li></ul>		
2a. Typically soil-dwelling, lobes to 10 cm long		
3a. Lobes attached to the substrate throughout the thallus, substrate various	a &	
4a. Lobes dark reddish to greenish brown, often shiny, narrow (to 0.5 cm), typically appressed throughout but edges may be ascending, lower cortex and rhizines similar to upper cortex in texture but may be paler or darker, rhizines simple; on rocks and trees	lea	
4b. Lobes not as above	5	
5b. Lacking a lower cortex, most species with veins and rhizines below		
6a. a. Lacking rhizines, lower surface smooth OR with short dense tomentum like fleece, apothecia if present on lower surface of lobe edges		Lower surface
7a. Upper cortex typically pruinose around margins, lower cortex dark black to brown, rhizines dense, black & 'bottle-brush' squarrose	(	

## Pictorial Guide to the Brown Foliose Genera, with Example Species



Cetraria ericetorum

Terricolous, rarely on wood, erect and often inrolled



Cetrariella commixta

Saxicolous, appressed, apotheciate



**Melanelia tominii**Saxicolous, narrow appressed lobes



**Melanelixia albertana**Epiphytic, sorediate, C+ pink



**Melanohalea exasperatula**Epiphytic, isidiate or apotheciate



**Nephroma resupinatum**Large lobed, cephalolichen, epiphytic, apothecia on bottom of lobe



**Peltigera rufescens**Large lobed, cyanolichen, apothecia on tips of erect lobes, apothecia shaped like a fingernail or saddle



Phaeophyscia orbicularis
Appressed, sorediate or apotheciate small lobed, on wood and trees



**Physconia muscigena**Squarrose rhizines, often pruinose, epiphytic and terricolous, more rarely saxicolous



**Tuckermannopsis americana**Ascending apotheciate lichens, epiphytic, often with cilia and/or pycnidia



**Umbilicaria hyperborea**Attached with a central holdfast, saxicolous