Key to the Genera of Yellow & Orange Foliose Lichens of Alberta v. 2025

Encompasses 40 species across 13 genera. Excludes the squamulose/areolate Fulgensia.

If you are using Goward et al.'s 1994 keys:

Alberta species Goward keys are missing: *Ahtiana pallidula, Candelaria pacifica* (much more common in Alberta than *C. concolor*), *Xanthoparmelia camtschadalis*

Taxonomic updates: Flavocetraria is included in Cetraria in Goward, Xanthomendoza is included in Xanthoria in Goward

Key to the Yellow and Orange Foliose Lichens of Alberta

1a. Umbilicate, attached by a central holdfast to rocks in open arid regions
1b. Foliose to semi-fruticose, variety of substrates and habitats
3a. Rhizines present
4a. Lobes bright yellow5
5a. Lobes tiny, (width ≤0.3 mm) lower cortex white or lacking
6a. On rock, soil or moss on soil
surface), both surfaces similarly-colored and attached basally
10a. Sorediate
common throughout treed regions







Pictorial Guide to the Yellow & Orange Foliose Genera with Example Species



Ahtiana sphaerosporella Montane epiphyte



Arctoparmelia centrifuga Saxicolous, narrow appressed lobes, cortex dull



Tiny, resembling crust, has branching lobes, epiphyte, yolk-yellow



Flavocetraria cucullataTerricolous, appears fruticose, pseudocyphellate



Flavopunctelia flaventior Large-lobed, sorediate, pseudocyphellate, green yellow epiphyte



Nephroma arcticumLarge lobed, cephalolichen, montane soil dweller, apothecia on bottom of lobe



Parmeliopsis ambigua

Appressed, sorediate, small lobed, on wood and trees



Rhizoplaca chrysoleuca Umbilicate, saxicolous, apotheciate



Vulpicida pinastriBright yellow, lobes often ascending, variety of habitats and reproductive modes



Xanthomendoza hasseana Evolutionary clade of mainly foliose, rhizinate spp K+ purple



Xanthoria elegansParaphyletic, as used here, foliose but lacking rhizines, K+ purple



Shiny cortex, varies from attached to vagrant, chemically diverse