

Macrolichens to know in the PNW, NW Lichenologists Certification updated May 2023

Species	S&M	FS/BLM Sensitive	OR rank	WA rank	BC rank	AK rank	Notes
<i>Acroscyphus sphaerophoroides</i>		WA		S1	S2	S1	On wood and acidic rock; associated with bird and rodent droppings, low to subalpine elevations; open rock or forested. Coastal BC to WA Cascades (Snohomish)
<i>Alectoria ochroleuca</i> *				S1	S5		Alpine sod, WA and N
<i>Alectoria vancouverensis</i>					S4		Common OR, rare BC
<i>Alectoria nigricans</i>				S3	S5		Alpine sod, WA and north. (synonym <i>Gowardia nigricans</i>)
<i>Anaptychia crinalis</i> *			S1		S2		On trees, humid boreal sites, AK and BC, also very rare coastal OR (old name <i>A.setifera</i>)
<i>Arctoparmelia incurva</i> *		WA		S1	S4S5		On rock; WA and N
<i>Blennothallia fecunda</i>					S3S4		Coastal Rock BC and N (old name <i>Collema fecundum</i>)
<i>Bryoria bicolor</i> *		OR	S2		S4		Coastal ridges and mountaintops, conifers; NW OR and N. Recommend list as S2 WA.
<i>Bryoria tenuis</i>			SNR	S1	S3S4		Few sites, OR coast; Moran State Park in WA
<i>Bunodophoron melanocarpum</i>				S1	S4	S2S3	Olympic Penn. N to AK
<i>Cetraria californica</i>				S2	S4?		Immediate coast on conifers. Common OR rare in BC
<i>Cetraria commixta</i>			S1				Arctic alpine to WA; increasingly common N
<i>Cetraria juniperina</i>				S1	S5		Olympic NF, Alpine sod (old name <i>Vulpicida tilesii</i>)
<i>Cetrelia cetrarioides</i> *	E				S5		Apparently secure and not considered rare by NWL, but is listed as S&M
<i>Cetraria subalpina</i>			S2		S5		Rare in OR, more common N
<i>Cladonia ciliata</i> var. <i>ciliata</i>				S1	S3S4		Mima Mounds NAP Scatter Creek SWA (same as <i>C. ciliata</i>)
<i>Cladonia ciliata</i> var. <i>tenuis</i>				S1	S3S4		Glacial Heritage Preserve Mima Mounds NAP Scatter Creek SWA South Puget Prairie Preserve
<i>Cladonia concinna</i>			S2		S2		Coastal in PNW states
<i>Cladonia novochlorophaea</i>				S1	S3S4		Glacial Heritage Preserve Mima Mounds NAP Scatter Creek SWA
<i>Cladonia poroscypha</i>			S1	S1			Coastal, soil and moss over rock; Deception Pass SP
<i>Cladonia portentosa</i> subsp. <i>pacifica</i>				S2	S5		Coastal SE AK to CA; rarely inland to the Cascades
<i>Cladonia prolifica</i>			S2		S3S4		Coastal species from BC to N CA; rarely documented
<i>Collema curtisporum</i> *			S1		S4		Mainly on Populus between Cascade Rocky Mountain crests
<i>Collema nigrescens</i> *	F			S3	S4S5		Conifers and hardwoods west of Cascades; occasional in Oregon, rare in BC. S&M: In WA and OR, except in OR Klamath Physiographic Province.
<i>Dactylina arctica</i> *		WA		S1	S5		On alpine sod; common in Rockies of AL and BC; very rare in PNW
<i>Dactylina ramulosa</i>				S1	S5		Two collections in WA one is alpine area other is East side of Cascade Crest
<i>Dermatocarpon moulinii</i>				S1	S2?		Dry, often calcareous rock; widespread in western NA but uncommon.
<i>Dermatocarpon polyphyllizum</i>			S1				Wallow County, OR; alpine calciphile
<i>Erioderma sorediatum</i> *		WA		S2	S2S3	S2	Immediate coast, <i>Pinus</i> shrubs community, old dunes, on ericaceous shrubs or conifers
<i>Evernia divaricata</i>			SNR		S3		One site in Eagle Cap Wilderness NE Oregon. Considered rare in NA (McCune)
<i>Flavoparmelia caperata</i>				SU	SNA		Deception Pass, WA. Immediate coast
<i>Flavopunctelia flaventior</i>					S2?		Rare PNW; very rare BC: Trees and mossy rocks Victoria area, and on Artemisia near Kamloops

<i>Gabura insignis</i>					S3		Coastal forests and dunes; fairly common OR becoming rare in BC (<i>Leptogium insigne</i> , <i>L. brebissonii</i>)
<i>Heterodermia japonica</i> *		OR	S1		S1S3		In PNW known only from coastal <i>Picea</i> in old growth fog drenched headlands
<i>Heterodermia leucomela</i> *				S1	S2S3		Uncommon on seaside conifers in OR and rare in BC
<i>Heterodermia sitchensis</i> *	E	OR	S1		S1	S2S4	Restricted to the immediate coast. In Oregon, at one site found on twigs of <i>Picea sitchensis</i> on ridgetop exposed to ocean winds in old-growth temperate rainforest. In BC, Seaside conifers near Ucluelet and Tofino. So far not found in WA.
<i>Heterodermia speciosa</i>			S1		S1		Hardwoods, N coastal and boreal BC and N
<i>Hypogymnia duplicata</i> *	C				S5		OR Coast Range and near Mt. Hood, conifers; more common northward
<i>Hypogymnia heterophylla</i>				S3	S2		Abundant on coastal conifers and hardwoods in CA and OR but rare northward
<i>Hypogymnia pulverata</i> *		OR	S1			S2	Only a few locations known for western N Am, one from <i>Picea sitchensis</i> forest on Oregon coast and several from coastal Alaska
<i>Hypogymnia subphysodes</i> *			S1				<i>Pinus contorta</i> forest on OR coast only known site in NA
<i>Hypogymnia vittata</i>	E				S5		Epiphyte, mossy rock or tundra soil; arctic, boreal and coastal AK to BC
<i>Hypotrachyna afrorevoluta</i> *	E	WA	S3	S1	S2S3		Coast Range and immediate coast, very rare in Cascades; usually on bark, rarely on rock. Formerly <i>H. revoluta</i>
<i>Hypotrachyna riparia</i> *		OR	S1				Riparian hardwoods, foothills of Cascades; so far OR only
<i>Lathagrium undulatum</i>			S1?		S4		calciferous on soil or rocks. Arctic-alpine S to the Gaspé Peninsula and to Alberta and Saskatchewan (<i>Collema</i>). No confirmed sites OR, should probably be removed from ORBIC
<i>Leioderma solediatum</i>		OR	S1	S1	S2S3	S1	Immediate coast; old dunes; <i>Pinus</i> -shrubs; on ericaceous shrubs and conifers
<i>Leptogium compactum</i>			S1?		S4		WA Skamania Co, and OR Benton Co.
<i>Leptogium cyanescens</i> *	A	WA	S1	S1	S1S2		On trees in humid forests; very rare reported from MBS NF and OR coast wetland
<i>Leptogium pseudofurfuraceum</i>					S4		Fairly common S OR, less common N OR and rare BC
<i>Leptogium umpquaense</i>			SNR				Newly found species from coastal Douglas County OR
<i>Letharia gracilis</i>			S1				So far rare in OR: Siskiyou mtns, Lane and Klamath counties
<i>Lobaria linita</i> *	A	OR	S2	S4	S5		Montane to subalpine rock & conifers; Rare SW OR increasingly common N to coastal AK
<i>Lobaria retigera</i>					S3	S2S3	Old growth forests of AK and BC
<i>Nephroma bellum</i> *	E				S5		S&M OR: Klamath, Willamette Valley, Eastern Cascades
<i>Nephroma isidiosum</i>	E				S3		Not covered by McCune and Geiser but listed S&M? AK-BC
<i>Nephroma occultum</i> *	C		S3	S3	S3	S1	OR and WA Cascades, suboceanic N interior BC; old-growth conifers
<i>Niebla cephalota</i> *	A	OR-WA	S2	S2	S2	S1	Immediate coast on conifers. Recommend S3 WA.
<i>Pannaria oregonensis</i> *	E	OR	S2?	S1	S2	S1S2	Formerly <i>P. rubiginella</i> and <i>rubiginosa</i> . West side; wetlands and riparian on the immediate coast; mainly hardwoods. Recommend change to S3 WA
<i>Parmotrema crinitum</i>					S3	S2	Common OR but rare BC; Conifers, hardwoods, and rocks near the coast
<i>Parmotrema chinense</i>					S3		Common OR but rare BC; Conifers, hardwoods, and rocks near the coast (old name <i>perlatum</i>)
<i>Peltigera cinnamomea</i>			S1		S5	S2	BC to OR inland to MT; apparently rare
<i>Peltigera hydrothryia</i>				S3	S2	S1	Aquatic, clean spring fed streams that don't fluctuate or flood. In N CA assigned a threat rank of "fairly endangered" (CALs). (broad sense; var. includes <i>aquatica</i> and <i>gowardii</i>)
<i>Peltigera hymenina</i>			S2	S1	S3S4		Coastal, stable dunes and outcrops OR to BC
<i>Peltigera pacifica</i> *	E				S4		S&M; Considered common and stable in OR, WA, BC but apparently rare and threatened in N CA (CALs Bulletin Vol. 21 No. 1).

<i>Peltula euploca</i> *			S1S2		S1S3		Noncalcareous rock, in exposed, dry or shaded and damp sites; basalt in S and central OR. Rare N of CA
<i>Phaeophyscia ciliata</i>					S3		On hardwoods; rare BC
<i>Pilophorus nigricaulis</i> *		OR	S2	S3	S3S4		Cool, N-facing rock outcrops and talus. AK- NW OR (Columbia Gorge)
<i>Pilophorus vegae</i>					S1S2		On rock coastal BC
<i>Platismatia lacunosa</i> *	E				S5		On hardwoods, esp. <i>Alnus</i> , less often conifers, rarely rock; Probably not rare but S&M E
<i>Pseudocyphellaria hawaiiensis</i> *	A	WA	S3	S1	S1	S2S3	Coastal conifers and hardwoods in <i>Picea sitchensis</i> zone; W OR to AK. Formerly <i>P. perpetua</i>
<i>Pseudocyphellaria mallota</i> *			S3		S2?	S1S3	Westside; old-growth, mixed age or edge of second growth forest. Recommend listing WA.
<i>Pseudocyphellaria rainierensis</i> *	A		S3	S4	S2S3	S2S3	West side; old-growth conifers
<i>Punctelia jeckeri</i>					S4		Gulf and Channel Islands of BC and WA; Willamette Valley OR. Taxonomic re-evaluation needed.
<i>Ramalina intermedia</i>			S1		SU		Mostly on rock, rare as epiphyte. Not known from WA; Josephine County OR;CA, BC, AK
<i>Ramalina labiosorediata</i> *		OR	S1S2	S2	SU		CA-BC; along the immediate coast (old name <i>R. pollinaria</i>)
<i>Ramalina subleptocarpha</i>					S3S4	S2S3	On hardwoods and conifers, common in OR, rare BC, rare disjuncts in ID/MT
<i>Ramalina thrausta</i> *		WA		S2	S5		On conifers, common in OR Coast Range; apparently rare in WA; frequent in BC. Considered rare and seriously threatened in N CA (CALS).
<i>Scytinium platynum</i>			S2		S3S4		More information still needed; may be dropped in near future as it is being located in disturbed areas.
<i>Scytinium plicatile</i>			S1		S4		CA to BC (MT and NV); calcareous sites
<i>Scytinium quadrifidum</i>			S2				Known only from 1 site along Umpqua River OR; potentially introduced. (Formerly <i>Collema</i> and <i>Rostania</i>)
<i>Scytinium rivale</i> *	E			S3	S2?		Aquatic; mountain streams; common according to Glavich & Geiser (2007, Evansia 24:6-9).
<i>Scytinium siskiyouensis</i>			S1				In Jackson and Josephine counties OR.
<i>Scytinium teretiusculum</i> *	E			S1	S4S5		On hardwoods (esp. <i>Populus</i> and <i>Quercus</i>) and conifers; widespread
<i>Solorina saccata</i>		WA		S1	S4		Moist calcareous sites; arctic-alpine to SD and BC
<i>Solorina spongiosa</i>			S1	S1	S4		Moist calcareous sites, montane; widespread in NA rare in PNW. Known from 1 location in Inyo County, CA.
<i>Steineropsis laceratula</i>			S1	S1	S4		Coastal on conifers and mossy rock; increasingly common SE AK (<i>Fuscopannaria</i>)
<i>Stereocaulon spathuliferum</i> *		OR	S1		S4	S2	Cascades; cool N-facing talus slopes and rock outcrops
<i>Sticta arctica</i> *			S1		S1		Very rare; coastal mountain tops; mossy rock; AK to WA and NW OR
<i>Sticta torii</i>			SNR		S1		Lane County, Simon et. al. Graphis scripta 30
<i>Sticta rhizinata</i>					S1S3	S1S2	On trees Robson Valley BC and coastal AK (old name <i>Sticta wrightii</i>)
<i>Sulcaria badia</i>			S3	SH			Likely extirpated from WA, unknown BC, rare on OR coast and valley fringes, rare in CA.
<i>Sulcaria spiralifera</i> *	A		S3	S1			Immediate coast, conifers; OR and south; WA: Deception Pass SP Olympic NP. Ranked as very rare N CA. (includes var. <i>pseudocapillaris</i>)
<i>Teloschistes flavicans</i> *	A	OR	S1				Coastal, <i>Picea sitchensis</i> zone; conifers; OR and south
<i>Tholurna dissimilis</i> *	B	OR-WA	S2	S2	S3S4		Cascades south to OR; also inland in BC; exposed, dwarfed subalpine conifers, S&M: south of Columbia River
<i>Umbilicaria decussata</i>					S3	S2	Arctic-alpine to subalpine and steppe; occasional PNW
<i>Umbilicaria hirsuta</i> *			S1	SU	S1	S2	Scattered in Pacific coast mountains, AK to CA and MT. The single known OR site is on the face of a vertical igneous rock outcrop with an intermittent seep, in shade.

<i>Umbilicaria lambii</i>		WA		S1	S4		Gifford Pinchot NF Glacier Peak WA Mt. Adams WA Mt. Baker-Snoqualmie NF Mt. Rainier NP
<i>Umbilicaria lyngei</i>				S1	S3	S3	Arctic but rare disjuncts in OR and WA
<i>Umbilicaria nodulospora</i>			S2				CA/OR endemic, OR: Crook, Lake, Klamath Counties. CA: Siskiyou and Modoc Counties.
<i>Umbilicaria nylanderiana</i>				S1	S2S3		Widespread but rare
<i>Umbilicaria phaea</i> var. <i>coccinea</i> *		WA	S3	S1	S5		Exposed to shaded rock outcrops, boulders and talus; low to middle elevations. Locally common near Yreka, the Shasta River, and adjoining OR, more rare near Klamath Falls OR and even more rare in central OR and central WA
<i>Umbilicaria proboscidea</i>			S1?		S5		Scattered populations in CA and OR, becoming more common to the N
<i>Umbilicaria rigida</i> *		WA	S1	S2	S4	S3	Arctic-alpine to Olympic Peninsula, OR Cascades, and Alberta
<i>Umbilicaria scholanderi</i>				S1		S3	AK to the Olympic peninsula
<i>Usnea ceratina</i>			S1		S3S4		Rare coastal PNW-BC to S CA
<i>Usnea lambii</i> *		WA	S1	S2	SH		Frequent on stable subalpine rock on flanks of major volcanoes in Cascades. Formerly called <i>U. sphacelata</i> .
<i>Usnea longissima</i> *	A/F			S4	S5		Generally secure but S&M: A for Curry, Josephine and Jackson Counties, OR; F for remainder of OR and WA; secure in N CA (CALs)
<i>Usnea nidulans</i> *		OR	S1		S2S3		BC to OR on the immediate coast and in the Coast Ranges; Lane, Lincoln, Curry Counties
<i>Usnea rubicunda</i> *			S3		S2?		On hardwoods at the immediate coast CA to BC (to inland BC)
<i>Usnea subgracilis</i> *	E		S3	S3	S3		Coastal from N CA to S BC; probably goes undetected
<i>Usnea quasirigida</i>				S2	SU		Uncommon NW WA to BC

* Fact Sheets available from the ISSSSP website: <https://www.fs.usda.gov/r6/issssp/>

To be consistent with regional flora, nomenclature follows McCune and Geiser, Lichens of the PNW Third Edition, which should be available fall of 2023.

*Leptogium umpquaense*¹ and *Pannaria oregonensis*² are newly published (Stone & McCune. 2022):

1. Two new hairy *Leptogium* (Collembataceae) species from western North America. The Bryologist 125(1) 157-169; McCune et. al 2022.
2. A new endemic, *Pannaria oregonensis*, replaces two misapplied names in the Pacific Northwest of North America. The Bryologist 125 (1): 170-185).

Definitions of Categories

Survey and Manage Category – Current status, for FS lands within the range of the northern spotted owl, in Oregon and Washington.

- A** = Rare, pre-disturbance surveys practical
- B** = Rare, pre-disturbance surveys not practical
- C** = Uncommon, pre-disturbance surveys practical
- D** = Uncommon, pre-disturbance surveys not practical or not necessary
- E** = Rare, status undetermined
- F** = Uncommon or concern for persistence unknown; status undetermined

Reference: U. S. Department of Agriculture and U. S. Department of Interior. 2001. Record of decision and standards and guidelines for amendments to the survey and manage, protection buffer, and other mitigation measures standards and guidelines. U. S. D. A. Forest Service, Portland. 86 pages.

*Special considerations refers to management considerations identified in Forest Service direction identified in this document: [stelprd3841093.pdf \(usda.gov\)](https://www.usda.gov/forestservice/management-considerations)

FS/BLM Sensitive – Identified whether the species is considered Sensitive by the Forest Service or Bureau of Land Management in Oregon or Washington.

- SEN** = Sensitive in Oregon and Washington
- WA-SEN** = Sensitive in Washington only
- OR-SEN** = Sensitive in Oregon only

Reference: [ISSSSP \(usda.gov\)](https://www.usda.gov/forestservice/species-fact-sheets) Species Fact Sheets can be found at this site and have been created for many of the listed species Accessed May 2023

OR Rank– Identifies current state rank for the species, identified by the Oregon Biodiversity Information Center for Oregon.

State ranks are:

- S1** = Critically imperiled because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.
- S2** = Imperiled because of rarity (6-20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
- S3** = Either very rare and local throughout its range, or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other factors; in the range of 21-100 occurrences.
- 4** = Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.

Reference: Oregon Biodiversity Information Center. 2023. Rare, threatened and endangered species of Oregon. Institute for Natural Resources, Portland State University, Portland, Oregon. 133 pages. Accessed May 2023.

WA Rank– Identifies current state rank for the species, identified by the Washington Natural Heritage Program for Washington

State Rank characterizes the relative rarity or endangerment within the state of Washington.

- S1** = Critically Imperiled - At very high risk of extirpation in the state due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors.
- S2** = Imperiled - At high risk of extirpation in the state due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors.
- S3** = Vulnerable - At moderate risk of extirpation in the state due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.
- S4** = Apparently Secure - At a fairly low risk of extirpation in the state due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors.
- SU** = Unrankable - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
- SNR** = Unranked - Subnational conservation status not yet assessed

Reference: Draft 2019 Washington lichen species of special concern and review lists. Washington Natural Heritage Program, Olympia, WA. <https://northwest-lichenologists.wildapricot.org/page-1854188> Last accessed May 2023.

AK Rank – Identifies current state rank for the species, identified by the Alaska Natural Heritage Program for Alaska

B.C. Rank– Identifies current Provincial rank for the species, identified by the British Columbia Conservation Data Centre.

Rank identifies the Provincial Status in British Columbia. The status ranks have the following meaning:

- SH** = historical (species)/possibly extirpated (communities)
- S1** = critically imperiled
- S2** = imperiled
- S3** = special concern, vulnerable to extirpation or extinction
- S4** = apparently secure
- S5** = demonstrably widespread, abundant, and secure.
- SU** = unrankable

Reference: B.C. Conservation Data Centre. 2019. BC Species and Ecosystems Explorer. B.C. Ministry of Environ. Victoria, B.C. Available: <https://www2.gov.bc.ca/gov/content/home> (accessed May 2023). See the CDC section

California- listing information is included in the notes section of relevant species.

Reference: <http://www.californialichens.org/conservation/lichens-of-conservation-concern/>

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