



WEST
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RESOURCES
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Appendix 15B

Summary of SOCC Occurrences and Species Characteristics

Table 15B.1 Summary of SOCC Occurrences and Species Characteristics

Type	Scientific Name	Common Name	National Rank ¹	Sub-national Rank ²	Assessment Areas ⁴				Outside of RAA	Total	Habitat Description	Phenology	Form	Mode of Reproduction
					PDA	LAA	RAA	Subtotal						
Vascular	<i>Arctanthemum arcticum</i>	arctic daisy	N4	S3	-	-	-	-	1	1	found in cold, open, moist environments such as tundra meadows, gravelly slopes, and coastal areas with permafrost and seasonal snow cover, associated with snow geese nesting sites	perennial	forb	seed, vegetative
Vascular	<i>Arnica griscomii</i>	Griscom's arnica	N5	S3	3	2	0	5	0	5	sheltered steep slopes, raised beach sediments, drainage between rocks, bottom of rocky slope, snowbank associations	perennial	forb	seed, vegetative
Vascular	<i>Arnica lonchophylla</i>	long-leaved arnica	N4N5	SH	6	20	0	26	0	26	solifluction slopes, wetland edges, rocky outcrops, birch seeps, outwash exposed sandy soil, snowbank associations	perennial	forb	seed, vegetative
Vascular	<i>Betula occidentalis</i> ³	water birch	N5	S3	N/A	N/A	N/A	N/A	N/A	N/A	riparian woodlands, clumps along rivers, streams, springs; prefers moist to wet soils and tolerates flooding.	perennial	shrub/tree	seed
Vascular	<i>Bromus pumpellianus</i>	Pumpelly's brome	N5	S3S4	12	4	1	17	1	18	slopes, banks, outwash channels with gravel or sand substrates, avens association on old Inuit camp	perennial	graminoid	seed, vegetative
Vascular	<i>Carex adelostoma</i>	circumpolar sedge	N4	S3	-	1	0	1	1	2	tussock sedge areas	perennial	graminoid	seed, vegetative
Vascular	<i>Carex canescens</i>	hoary sedge	N5	S3S4	-	-	1	1	6	7	wet, usually base-poor habitats, such as sphagnum bogs, moist coniferous forests and meadows	perennial	graminoid	seed, vegetative
Vascular	<i>Cerastium cerastoides</i> ³	starwort chickweed	N3N4	SU	N/A	N/A	N/A	N/A	N/A	N/A	wet areas, alpine rills, snowbeds, gravelly slopes, open alpine environments	perennial	forb	seed, vegetative
Vascular	<i>Diphasiastrum alpinum</i>	alpine clubmoss	N5	S3	-	-	-	0	1	1	dry tundra, rocky slopes, gravelly areas, low organic soils	perennial	forb	spore
Vascular	<i>Draba juvenilis</i>	long-stalked draba	N5	S3	1			1	0	1	birch seep, tall riparian shrub, esker wetland complex	perennial	forb	seed
Vascular	<i>Eleocharis palustris</i>	common spikerush	N5	S3	-	3	1	4	2	6	riparian tall shrub associations, areas dominated by tussock and non-tussock sedge species	perennial	graminoid	seed, vegetative
Vascular	<i>Elymus trachycaulus</i>	slender wildrye	N5	S2	-	1	0	1	0	1	exposed sand from wildlife diggings	perennial	graminoid	seed, vegetative
Vascular	<i>Equisetum palustre</i>	marsh horsetail	N5	S3	-	3	0	3	0	3	nutrient-rich wet meadows, marshes, peat fields along stream banks, ditches, moist pasture	perennial	forb	spore
Vascular	<i>Festuca saximontana</i>	Rocky Mountain fescue	N5	S3	-	-	-	0	2	2	dry or mesic grasslands, woodlands, sand dunes in boreal, mountainous, and subalpine North America below 3600 m	perennial	graminoid	seed
Vascular	<i>Juncus filiformis</i>	thread rush	N5	SH	-	-	-	0	2	2	sandy, moist or wet soils along stream banks, pools, lakes, meadow depressions, bogs, montane marshes	perennial	graminoid	seed, vegetative
Vascular	<i>Lathyrus japonicus</i>	beach pea	N5	S3	7	1	0	8	0	8	marine shores, beaches, and coastal areas with gravel or sand substrates	perennial	forb	seed, vegetative
Vascular	<i>Linnaea borealis</i>	twinline	N5	S3	-	-	-	0	13	13	birch seep and riparian tall shrub associations, esker wetland complex	perennial	shrub	seed, vegetative
Vascular	<i>Lupinus arcticus</i>	arctic lupine	N5	S3	-	-	1	1	0	1	dry meadows, tundra, gravelly slopes, low organic content soils	perennial	forb	seed

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					PDA	LAA	RAA	Subtotal						
Vascular	<i>Micranthes nelsoniana</i>	Nelson's saxifrage	N5	S3	3	17	10	30	1	31	snowbank associations, steep slopes, riparian areas, marine floodplains	perennial	forb	seed, vegetative
Vascular	<i>Oxytropis campestris</i>	field locoweed	N5	S3	-	1	0	1	0	1	graminoid dominant heath associations	perennial	forb	seed
Vascular	<i>Oxytropis deflexa</i>	nodding locoweed	N5	S3	3	3	4	10	2	12	snowbank associations, lichen veneer on sand or gravel glacial rebound beaches, heath tundra associations, raised floodplains with fine silt sediment	perennial	forb	seed
Vascular	<i>Pedicularis parviflora</i>	small-flowered lousewort	N5	S3	-	1	0	1	0	1	sandy beach of small lake in an esker complex	perennial (rarely annual, biennial)	forb	seed
Vascular	<i>Primula egaliksensis</i>	Greenland primrose	N5	S3	N/A	N/A	N/A	N/A	N/A	N/A	fens, marl hummocks, wetlands near open water or shallowly flooded marl deposits; drier microsites within hummocks.	perennial	forb	seed
Vascular	<i>Pyrola asarifolia</i>	pink pyrola	N5	S3	-	-	-	0	2	2	riparian area within rock outcrop	perennial	forb	seed, vegetative
Vascular	<i>Pyrola chlorantha</i>	green-flowered pyrola	N5	S2	-	1	1	2	0	2	hummocky and tussocky marine sediments	perennial	forb	seed, vegetative
Vascular	<i>Rumex arcticus</i>	arctic dock	N5	S3	22	10	11	43	1	44	marine tussock sedge associations, riparian willow associations, marine seasonal high tide areas, sand and gravel bar in a river channel	perennial	forb	seed, vegetative
Vascular	<i>Salix brachycarpa</i>	short-capsuled willow	N5	S3	-	1	1	2	0	2	-	perennial	shrub	seed, vegetative
Vascular	<i>Salix ovalifolia</i>	oval-leaved willow	N3	S2S3	-	1	0	1	0	1	moist tundra, wet meadows, stream banks, and wetlands in northern climates	perennial	shrub	seed, vegetative
Vascular	<i>Salix pulchra</i>	diamond-leaved willow	N5	S3S4	2	12	10	24	1	25	tussock sedge site colonized by shrubs, low shrub association, mixture of heath tundra and shrubs below a snowbank	perennial	shrub	seed, vegetative
Vascular	<i>Salix sphenophylla</i>	wedge-leaved willow	N2	SNR	-	1	0	1	0	1	-	perennial	shrub	seed, vegetative
Vascular	<i>Silene ostenfeldii</i>	Ostenfeld's catchfly	N4	S3	1	3	2	6	0	6	base of esker, lakeshore edge, alluvial fans, small depressional areas within lichen heath areas	perennial	forb	seed
Vascular	<i>Subularia aquatica</i>	water awlwort	N5	SH	-	-	-	0	1	1	esker wetland complex	annual	forb	seed
Vascular	<i>Vahlodea atropurpurea</i>	mountain hairgrass	N5	SH	-	1	0	1	0	1	non-tussock sedge association	perennial	graminoid	seed
Vascular	<i>Viola renifolia</i>	kidney-leaved violet	N5	S3	-	-	-	0	1	1	moist meadows, rock outcrops, alpine slopes, tundra environments	perennial	forb	seed
Bryophyte	<i>Aneura pinguis</i> ³	small greasewort	N5	S2S4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	liverwort	spore
Bryophyte	<i>Aplodon wormskioldii</i> ³	carrion moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	often found on decaying wood, calcareous soils, rocky substrates in moist areas	-	moss	spore
Bryophyte	<i>Aulacomnium acuminatum</i> ³	acutetip groove moss	N4N5	S3	N/A	N/A	N/A	N/A	N/A	N/A	wet heaths, bogs, shaded moist woodlands; tall bog moss	-	moss	spore
Bryophyte	<i>Blepharostoma trichophyllum</i> ³	a liverwort	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	craggs, gorges, calcareous rock surface	-	liverwort	spore, vegetative
Bryophyte	<i>Brachythecium cirrosum</i> ³	tendrill feather moss	N4N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	wet cliffs, rock outcrops, soil in arctic/mountain tundra among other mosses	-	moss	spore
Bryophyte	<i>Brachythecium turgidum</i> ³	thick ragged moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	soil and rock in exposed mesic to wet habitats	-	moss	spore
Bryophyte	<i>Calliergon giganteum</i> ³	giant spear moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	aquatic moss, bottom of tundra lake beds, bogs, fens, freshwater wetlands	-	moss	spore

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					PDA	LAA	RAA	Subtotal						
Bryophyte	<i>Campylium stellatum</i> ³	yellow starry fen moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	base-rich flushes, mires, wet calcareous habitats, dune slacks, seepage areas	-	moss	spore
Bryophyte	<i>Cephaloziella varians</i> ³	arctic threadwort	NU	S2S4	N/A	N/A	N/A	N/A	N/A	N/A	rocky soils, decaying logs, disturbed areas in mixed bryophyte colonies	-	liverwort	spore, vegetative
Bryophyte	<i>Cinclidium stygium</i> ³	sooty cupola moss	N5	S1S3	N/A	N/A	N/A	N/A	N/A	N/A	rich, calcareous fens, seeps, alpine flushes, wetlands	-	moss	spore
Bryophyte	<i>Cinclidium subrotundum</i> ³	ovate cupola moss	N4N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	peat, deep organic soils, shallow wet mineral soils on rocks in fens and riverbanks	-	moss	spore
Bryophyte	<i>Dicranum acutifolium</i> ³	sharp-leaved broom moss	N5	S2	N/A	N/A	N/A	N/A	N/A	N/A	Slightly calcareous soils, boulders, rock outcrops, cliff ledges, humus, rotten logs	-	moss	spore
Bryophyte	<i>Dicranum groenlandicum</i> ³	mountain broom moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	arctic/alpine tundra, on soil, humus, rocks, bogs, fens	-	moss	spore
Bryophyte	<i>Hamatocaulis vernicosus</i> ³	varnished hook moss	N5	S2	N/A	N/A	N/A	N/A	N/A	N/A	base-rich flushes and springs in uplands, sometimes lowland sedge fens	-	moss	spore, vegetative
Bryophyte	<i>Meesia triquetra</i> ³	three-ranked cold moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	moss	spore
Bryophyte	<i>Oncophorus wahlenbergii</i> ³	Wahlenberg's spur moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	on rotten logs along streams, occasionally on soil, humus, rock, bark near coniferous trees	-	moss	spore
Bryophyte	<i>Pleurozium schreberi</i>	red-stemmed feather moss	N5	S1S2	1	1	2	4	0	4	esker complex wetland, birch associated with water flowing between boulders, seep below snowbank association	-	moss	spore, vegetative
Bryophyte	<i>Pogonatum urnigerum</i>	urn hair moss	N5	S3	-	1	0	1	0	1	-	-	moss	spore, vegetative
Bryophyte	<i>Pohlia nutans</i> ³	common nodding moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	sphagnum bogs, tarn margins, wet tussock grasslands, disturbed areas, cold acidic substrates	-	moss	spore
Bryophyte	<i>Polytrichum piliferum</i> ³	bristly haircap moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	moss	spore
Bryophyte	<i>Polytrichum strictum</i> ³	bog haircap moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	sphagnum bogs, wet heaths, tundra, sedge meadows, peat hummocks	-	moss	spore
Bryophyte	<i>Polytrichum swartzii</i> ³	Swartz's haircap moss	N4	S1S3	N/A	N/A	N/A	N/A	N/A	N/A	very wet, regularly flooded areas: sedge meadows, wet tundra, lake shores, acidic, mineral-poor soils	-	moss	spore
Bryophyte	<i>Psilopilum cavifolium</i> ³	little wolverine moss	N5	S3	N/A	N/A	N/A	N/A	N/A	N/A	lowland and coastal arctic, non-calcareous soil, gravel, disturbed zones, stream banks, frost boils, late snow patches	-	moss	spore
Bryophyte	<i>Ptilidium ciliare</i> ³	ciliate fringewort	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	liverwort	spore, vegetative
Bryophyte	<i>Ptychostomum arcticum</i>	arctic bryum	NU	S1S3	-	1	0	1	0	1	moist soil banks, wet soils, forms dense or open turfs in tundra and alpine zones	-	moss	spore
Bryophyte	<i>Rhytidium rugosum</i> ³	wrinkle-leaved moss	N5	S3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	moss	spore, vegetative
Bryophyte	<i>Sarmentypnum exannulatum</i>	ringless hook moss	N5	S3	-	-	1	1	0	1	exposed calcareous or mafic bedrock, rock ledges, rocky slopes, dry forests, thin soil layers	-	moss	spore, vegetative
Bryophyte	<i>Scorpidium scorpioides</i> ³	hooked scorpion moss	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	flushes, slow-flowing streams, dune slacks, small pools, common in wetlands	-	moss	spore
Bryophyte	<i>Sphagnum lindbergii</i>	Lindberg's peatmoss	N5	S1S3	-	2	0	2	1	3	cold, wet environments: bogs, fens, tundra, acidic, nutrient-poor conditions	-	moss	spore, vegetative
Bryophyte	<i>Sphagnum russowii</i>	Russow's peatmoss	N5	S2	-	-	-	0	2	2	fen within shallow drainage	-	moss	spore, vegetative

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					PDA	LAA	RAA	Subtotal						
Bryophyte	<i>Sphagnum orientale</i> ³	oriental peat moss	NU	S1S2	N/A	N/A	N/A	N/A	N/A	N/A	peat bogs, wetland areas, acid water, temperate and boreal regions	-	moss	spore, vegetative
Bryophyte	<i>Sphagnum squarrosum</i>	squarrose peatmoss	N5	S1S3	-	2	0	2	16	18	wet woodlands, ditches, stream margins, nutrient-rich, base-rich conditions	-	moss	spore, vegetative
Lichen	<i>Masonhalea richardsonii</i> ³	arctic tumbleweed lichen	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	lichen	spore, soredia
Lichen	<i>Stereocaulon tomentosum</i>	woolly foam lichen	N5	S3S4	2	15	25	42	2	44	open rocky habitats, alpine and subalpine zones, acidic substrates, soil, rock, moss cortex	-	lichen	spore, soredia
Lichen	<i>Umbilicaria vellea</i> ³	grizzled rocktripe lichen	N5	S3S4	N/A	N/A	N/A	N/A	N/A	N/A	exposed rock surfaces in arctic and alpine regions, especially acidic rocks	-	lichen	spore

Notes:

¹ National ranks: N2 – imperiled; N3 – vulnerable; N4 – secure; N4N5 – apparently secure to secure; N5 – secure; NU – unrankable (Master et al. 2012)

² Subnational ranks: SH – possibly extirpated; S1S2 – critically imperiled to imperiled; S1S3 – critically imperiled to vulnerable; S2 – imperiled; S2S3 – imperiled to vulnerable; S2S4 – imperiled to apparently secure; S3 – vulnerable; S3S4 – vulnerable to apparently secure; SNR – unranked (Master et al. 2012)

³ No occurrence data was collected during the Izok Corridor Project baseline assessment

⁴ Survey sites located within the LAA were located within the LAA but outside of the PDA, and survey sites within the RAA were within the RAA, but outside of the PDA and LAA.

Sources: Aiken et al. (2007); Al-Shehbaz et al. (2020); Argus (2020); Bakalin et al. (2020); Bosanquet (2020) Brouillet (2020); Brouillet and Elvander (2020); Campbell et al. (2013); Coladonato (1993); COSEWIC (2014); Darbyshire and Pavlickf (2020); Freeman (2020); Gucker (2007, 2012); Hauser (2006); Hedenäs (2020a, 2020b, 2020c); Howard (1992, 1993); Ignatov (2020a, 2020b, 2020c); Ireland (2020a, 2020b); Klinkenberg (2020); Little and McKinney (2020); Long (2020); McIntosh and Newmaster (2020a, 2020b); McQueen and Andrus (2020a, 2020b, 2020c); Marino (2020); Merrill (2020); Miller (2020); Minnesota DNR (2025); MMG (2013); Mosyakin (2020); Mulder (2024, pers. comm.); Murray (2020); NatureServe (2025); Nelsen et al. (2013); Newmaster (2020); Newsham (2010); Rohrer (2020); Shaw (2020); Smith Merrill (2020a, 2020b, 2020c); Spence (2020); Tesky (1992); Toivonen (2020); Uchytel (1991); Vitt (2020); Wagner and Beitel (2024); Walsh (1994)