

Appendix 2. Vegetation Community Elements of Special Conservation Concern

<u>Element Name</u>	<u>Common Name</u>	<u>Reason</u>
Artemisia tridentata - Balsamorhiza sagittata shrub herbaceous	big sagebrush - balsamroot shrub herbaceous	limited extent
Artemisia tridentata - Rhamnus alnifolia shrub herbaceous	big sagebrush - alder-leaved buchthorn shrub herbaceous	limited extent
Artemisia tridentata - Saxifraga bronchialis shrub herbaceous	big sagebrush - spotted saxifrage shrub herbaceous	limited extent
Festuca hallii herbaceous alliance	plains rough fescue herbaceous alliance	at risk
Juniperus horizontalis - Koeleria macrantha pediment shrub herbaceous	creeping juniper - June grass pediment shrub herbaceous	limited extent
Larix occidentalis/Calamagrostis rubescens woodland/forest	western larch/pine reed grass woodland/forest	limited extent
Peace River Parkland remnant grasslands	Peace River Parkland remnant grasslands	at risk
Pinus flexilis woodland/forest alliance	limber pine woodland/forest alliance	at risk
Populus spp. riparian woodland alliance	cottonwood riparian woodland alliance	outstanding example
Salix bebbiana Foothills Parkland grove shrubland	Bebb's willow Foothills Parkland grove shrubland	limited extent
Sarcobatus vermiculatus herbaceous shrub alliance	greasewood herbaceous shrub alliance	limited extent
Schizachyrium scoparium - Poa interior herbaceous	little bluestem - inland bluegrass herbaceous	limited extent
Thuja plicata woodland/forest alliance	red cedar woodland/forest alliance	limited extent
Yucca glauca/ Calamovilfa longifolia shrub herbaceous	yucca shrub herbaceous	limited extent

Appendix 3a. Vascular Plant Elements of Special Conservation Concern.

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Abronia micrantha</i>	sand verbena	S2	G5
<i>Acer negundo</i>	Manitoba maple	S2?	G5
<i>Achillea millefolium var megalophala</i>		SR	G5T1
<i>Adiantum pedatum</i>	maidenhair fern	S1S2	G5
<i>Agoseris lackschewitzii</i>	pink false dandelion	S2	G4
<i>Agropyron scribneri</i>	Scribner's wheat grass	S2	G5
<i>Agropyron x brevifolium</i>		S?	HYR
<i>Agrostis exarata</i>	spike redtop	S2	G5
<i>Agrostis humilis</i>	low bent grass	S1S2	G4
<i>Agrostis mertensii</i>	northern bent grass	S1S2	G5
<i>Agrostis thurberiana</i>	Thurber's bent grass	S2	G5
<i>Allium geyeri</i>	Geyer's onion	S2	G4G5
<i>Alopecurus occidentalis</i>	alpine foxtail	S2	G5
<i>Amaranthus californicus</i>	Californian amaranth	S1	G4
<i>Anemone quinquefolia</i>	wood anemone	S1	G5
<i>Antennaria aromatica</i>	scented everlasting	S1S2	G4
<i>Antennaria corymbosa</i>	corymbose everlasting	S2	G5
<i>Antennaria luzuloides</i>	silvery everlasting	S1	G5
<i>Antennaria monocephala</i>	one-headed everlasting	S2	G4G5
<i>Aquilegia formosa</i>	Sitka columbine	S2	G5
<i>Aquilegia jonesii</i>	Jones' columbine	S2	G4
<i>Arabis lemmonii</i>	Lemmon's rock cress	S2	G5
<i>Arctagrostis arundinacea</i>	polar grass	S1	G?
<i>Arenaria longipedunculata</i>	sandwort	S2	G3G4Q
<i>Aristida longiseta</i>	red three-awn	S1	G5?
<i>Arnica amplexicaulis</i>	stem-clasping arnica	S2	G4
<i>Arnica longifolia</i>	long-leaved arnica	S2	G5
<i>Arnica parryi</i>	nodding arnica	S2	G5
<i>Artemisia borealis</i>	northern wormwood	S2?	G5?
<i>Artemisia furcata var furcata</i>	forked wormwood	S1	G4T?
<i>Artemisia tilesii</i>	Herriot's sagewort	S2?	G5
<i>Artemisia tridentata</i>	big sagebrush	S2	G5
<i>Asclepias ovalifolia</i>	low milkweed	S2	G5?
<i>Asclepias viridiflora</i>	green milkweed	S1	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Aster campestris</i>	meadow aster	S2	G5
<i>Aster eatonii</i>	Eaton's aster	S2	G5
<i>Aster pauciflorus</i>	few-flowered aster	S1S2	G4
<i>Aster umbellatus</i>	flat topped white aster	S2	G5
<i>Aster x maccallae</i>		SU	HYB
<i>Astragalus bodinii</i>	Bodin's milk vetch	S1	G4
<i>Astragalus kentrophyta var kentrophyta</i>		S1	G5T4
<i>Astragalus lotiflorus</i>	low milk vetch	S2	G5
<i>Astragalus purshii</i>	Pursh's milk vetch	S2	G5
<i>Athyrium distentifolium</i>	alpine spleenwort	S1	G4G5
<i>Atriplex canescens</i>	saltbush	SU	G5
<i>Atriplex powellii</i>	Powell's saltbush	S2	G4G5
<i>Atriplex truncata</i>	saltbush	S1	G5
<i>Bacopa rotundifolia</i>	water hyssop	S1	G5
<i>Bahia oppositifolia</i>	picradeniopsis	S1	G5?
<i>Barbarea orthoceras</i>	American winter cress	S2	G5
<i>Bidens frondosa</i>	common beggarticks	S1	G5
<i>Boisduvalia glabella</i>	smooth boisduvalia	S2	G5
<i>Boschniakia rossica</i>	ground-cone	S1	G5
<i>Botrychium ascendens</i>	ascending grape fern	SP	G3?
<i>Botrychium campestre</i>	field grape fern	S1	G3
<i>Botrychium crenulatum</i>		S1	G3
<i>Botrychium hesperium</i>	western grape fern	S1	G3
<i>Botrychium lanceolatum</i>	lance-leaved grape fern	S2	G5
<i>Botrychium minganense</i>		S2	G4
<i>Botrychium multifidum var intermedium</i>	leather grape fern	S1S2	G5T4?
<i>Botrychium paradoxum</i>	paradoxical grape fern	S1	G2
<i>Botrychium pedunculatum</i>		S1	G3?
<i>Botrychium simplex</i>	dwarf grape fern	S1	G5
<i>Botrychium spathulatum</i>		S1S2	G3G4
<i>Botrychium x watertonense</i>		S1	HYB
<i>Brasenia schreberi</i>		SU	G5
<i>Braya purpurascens</i>	alpine braya	S1	G4G5
<i>Brickellia grandiflora</i>	large-flowered brickellia	S2	G5
<i>Bromus altissimus</i>	Canada brome	S1	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Calamagrostis lapponica</i>	Lapland reed grass	S1	G5
<i>Cumassia quumash</i> var <i>quumash</i>	bluc camas	S2	G5T?
<i>Campanula uniflora</i>	alpine harebell	S2	G4
<i>Cardamine bellidifolia</i>	alpine bitter cress	S2	G5
<i>Cardamine parviflora</i>	small bitter cress	S1	G5
<i>Cardamine pratensis</i>	meadow bitter cress	S1	G5
<i>Cardamine umbellata</i>	mountain cress	S2	G?
<i>Carex adusta</i>	browned sedge	S2	G5
<i>Carex aperta</i>	open sedge	S2	G4
<i>Carex arcta</i>	narrow sedge	S1	G5
<i>Carex backii</i>	Back's sedge	S2	G4
<i>Carex bicolor</i>		SU	G5
<i>Carex bipartita</i>	two-parted sedge	S1S2	G5
<i>Carex capitata</i>	capitate sedge	S2	G5
<i>Carex crawei</i>	Crawe's sedge	S2	G5
<i>Carex enanderi</i>	goose-grass sedge	S2?	G2G4
<i>Carex epipilosa</i>	blackened sedge	S1	G?Q
<i>Carex franklinii</i>	Franklin's sedge	S2	G3G4Q
<i>Carex glacialis</i>	glacier sedge	S2	G5
<i>Carex haydeniana</i>	Hayden's sedge	S2	G4G5
<i>Carex heleonastes</i>	Hudson Bay sedge	S2	G4
<i>Carex hookerana</i>	Hooker's sedge	S2	G4?
<i>Carex houghtoniana</i>	sand sedge	S2	G5
<i>Carex hystricina</i>	porcupine sedge	S1	G5
<i>Carex illota</i>	small-headed sedge	S1S2	G4G5
<i>Carex kelloggii</i>	Kellogg's sedge	S2	G5
<i>Carex lacustris</i>	lakeshore sedge	S2	G5
<i>Carex lenticularis</i> var <i>dolia</i>	lens-fruited sedge	S2	G5T3Q
<i>Carex leporinella</i>		SU	G5
<i>Carex loliacea</i>	rye-grass sedge	S2	G5
<i>Carex maritima</i> var <i>incurviformis</i>	seaside sedge	S2	G3G5T?
<i>Carex mertensii</i>	purple sedge	S1S2	G5
<i>Carex misandra</i>	nodding sedge	S1S2	G5
<i>Carex multicostrata</i>		SR	G5
<i>Carex nebrascensis</i>	Nebraska sedge	S3	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Carex oligosperma</i>	few-fruited sedge	S1	G4
<i>Carex parryana</i> var <i>parryana</i>	Parry's sedge	S2	G1T1
<i>Carex pauciflora</i>	few-flowered sedge	S2	G5
<i>Carex paysonis</i>	Payson's sedge	S2	G4
<i>Carex pedunculata</i>		S1	G5
<i>Carex petasata</i>	pasture sedge	S2	G5
<i>Carex petricosa</i>	stone sedge	S2	G4
<i>Carex piperi</i>		SR	G3?
<i>Carex platylepis</i>	broad-scaled sedge	SU	G4?
<i>Carex podocarpa</i>	alpine sedge	SU	G4G5
<i>Carex preslii</i>	Presl sedge	S2	G4
<i>Carex pseudocyperus</i>	cyperus-like sedge	S2	G5
<i>Carex retrorsa</i>	turned sedge	S2S3	G5
<i>Carex rostrata</i>	beaked sedge	S2	G5
<i>Carex scoparia</i>	broom sedge	S1	G5
<i>Carex sitchensis</i>		SR	G?
<i>Carex supina</i>	Weak Sedge	S1	G5
<i>Carex tinctoria</i>	tinged sedge	S1	G4G5
<i>Carex tonsa</i>		S2S3	G5
<i>Carex trisperma</i>	three-seeded sedge	S2S3	G5
<i>Carex umbellata</i>	umbellate sedge	SP	G5
<i>Carex vesicaria</i>	blister sedge	S2?	G5
<i>Carex vulpinoidea</i>	fox sedge	S2	G5
<i>Castilleja pallida</i>		SU	G5
<i>Castilleja sessiliflora</i>	downy paintbrush	S1	G5
<i>Centunculus minimus</i>	chaffweed	S1	G5
<i>Cerastium beeringianum</i> ssp <i>terrae-novae</i>		SR	G5T1
<i>Cheilanthes gracillima</i>	lace fern	S1	G4G5
<i>Chenopodium atrovirens</i>	goosefoot	SR	G5
<i>Chenopodium desiccatum</i>	goosefoot	S2	G5
<i>Chenopodium incanum</i>	goosefoot	S1?	G5
<i>Chenopodium leptophyllum</i>	narrow-leaved goosefoot	SU	G5
<i>Chenopodium subglabrum</i>	smooth narrow-leaved goosefoot	S2	G3
<i>Chenopodium watsonii</i>	Watson's goosefoot	S1	G5
<i>Cirsium scariosum</i>	thistle	SU	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Conimitella williamsii</i>	conimitella	S2	G3
<i>Coptis trifolia</i>	goldthread	S2	G5
<i>Coreopsis tinctoria</i>	common tickseed	S1S2	G5
<i>Corispermum nitidum</i>	bugseed	S1?	G5
<i>Cornus unalaschensis</i>		SR	G5?
<i>Crepis atriobarba</i>	hawk's-beard	S2	G5
<i>Crepis intermedia</i>	intermediate hawk's-beard	S2	G5
<i>Crepis occidentalis</i>	small-flowered hawk's-beard	S2	G5
<i>Cryptantha affinis</i>		SU	G4
<i>Cryptantha minima</i>	small cryptanthe	S1	G5
<i>Cryptogramma stelleri</i>	Steller's rock brake	S2	G5
<i>Cuscuta gronovii</i>	common dodder	S1	G5
<i>Cynoglossum boreale</i>	wild comfrey	S1	G4Q
<i>Cyperus schweinitzii</i>	sand nut-grass	S2	G5
<i>Cyperus squarrosus</i>	awned nut-grass	S1	G5
<i>Cypripedium acaule</i>	stemless lady's-slipper	S2	G5
<i>Cypripedium montanum</i>	mountain lady's-slipper	S2	G4G5
<i>Cystopteris montana</i>	mountain bladder fern	S2	G5
<i>Danthonia californica</i>	California oat grass	S?	G5
<i>Danthonia spicata</i>	poverty oat grass	S1S2	G5
<i>Danthonia unispicata</i>	one-spike oat grass	S2	G5
<i>Deschampsia elongata</i>	slender hair grass	S1	G5
<i>Dichantherium acuminatum var acuminatum</i>	hot-springs millet	SX	G5T?
<i>Dichantherium leibergii</i>	Leiberg's millet	SR	G5
<i>Dichantherium oligosanthes</i>	sand millet	S1	G5
<i>Douglasia montana</i>	mountain dwarf-primula	S1	G4?
<i>Downingia laeta</i>	downingia	S1	G5
<i>Draba densifolia</i>	whitlow-grass	S2	G5
<i>Draba fladnizensis</i>	whitlow-grass	S1	G4
<i>Draba glabella</i>	whitlow-grass	S1	G4G5
<i>Draba kananaskis</i>	Kananaskis whitlow-grass	S1	G1Q
<i>Draba longipes</i>	whitlow-grass	S2	G4
<i>Draba macounii</i>	Macoun's whitlow-grass	S2S3	G3
<i>Draba reptans</i>	whitlow-grass	S1S2	G5
<i>Draba venosa</i>	whitlow-grass	S2	G3

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Drosera anglica</i>	oblong-leaved sundew	S2S3	G5
<i>Drosera linearis</i>	slender-leaved sundew	S2	G4
<i>Dryopteris cristata</i>	crested shield fern	S1	G5
<i>Dryopteris filix-mas</i>	male fern	S1	G5
<i>Elatine triandra</i>	waterwort	S1	G5
<i>Eleocharis compressa var borealis</i>	flattened spike-rush	SU	G5T5
<i>Eleocharis nitida</i>		SR	G3G4
<i>Eleocharis ovata</i>	Engelmann's spike-rush	S1?	G5
<i>Eleocharis tenuis</i>	slender spike-rush	SU	G5
<i>Ellisia nyctelea</i>	waterpod	S2	G5
<i>Elodea longivaginata</i>	Canada waterweed	S1S2	G4G5
<i>Elymus mollis</i>	American dune grass	S1	G5
<i>Elymus virginicus</i>	Virginia wild rye	S1	G5
<i>Elymus vulpinus</i>		SR	G1Q
<i>Epilobium clavatum</i>	willowherb	S2	G5
<i>Epilobium glaberrimum ssp fastigiatum</i>	willowherb	S1S2	G5T?
<i>Epilobium halleanum</i>	willowherb	S1	G5
<i>Epilobium lactiflorum</i>	willowherb	S2	G5
<i>Epilobium leptocarpum</i>	willowherb	S1	G5
<i>Epilobium luteum</i>	willowherb	S1	G5
<i>Epilobium mirabile</i>	willowherb	SR	G4Q
<i>Epilobium oreganum</i>		SR	G2
<i>Epilobium saximontanum</i>	Rocky Mountain willowherb	S2	G5
<i>Erigeron divergens</i>	fleabane	S1	G5
<i>Erigeron flagellaris</i>	creeping fleabane	S1	G5
<i>Erigeron hyssopifolius</i>	wild daisy fleabane	S1	G5
<i>Erigeron lackschewitzii</i>		S1	G3Q
<i>Erigeron ochroleucus var ochroleucus</i>		SR	G5T3
<i>Erigeron ochroleucus var scribneri</i>		S2?	G5T5
<i>Erigeron pallens</i>	pale alpine fleabane	S2	G5T2?
<i>Erigeron radicans</i>	dwarf fleabane	S2	G3
<i>Erigeron trifidus</i>	trifid-leaved fleabane	S2	G2
<i>Erigeron uncialis</i>		S1?	G3G4
<i>Erigeron uncialis ssp conjugans</i>		SU	G3G4T3
<i>Eriogonum cernuum</i>	nodding umbrella-plant	S2	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Eriogonum ovalifolium</i> var <i>ovalifolium</i>	silver-plant	S2	G5T?
<i>Eriogonum pauciflorum</i>		SU	G5
<i>Eriophorum callitrix</i>	beautiful cotton grass	S2	G5
<i>Eriophorum scheuchzeri</i>	one-spike cotton grass	S2S3	G5
<i>Eupatorium maculatum</i>	spotted Joe-pye weed	S1S2	G5
<i>Festuca altaica</i>	northern rough fescue	SU	G5
<i>Festuca minutiflora</i>	tiny-flowered fescue	S2	G5
<i>Festuca occidentalis</i>	western fescue	S1	G5
<i>Festuca subulata</i>	fescue	S1	G5
<i>Festuca vivipara</i> var <i>glabra</i>		SU	G4G5QT?
<i>Franseria acanthicarpa</i>	bur ragweed	S2	G5
<i>Galium bifolium</i>	two-leaved Bedstraw	S1	G5
<i>Gayophytum racemosum</i>	low willowherb	S1	G5
<i>Gentiana aquatica</i>	marsh gentian	S1S2	G4
<i>Gentiana glauca</i>	alpine gentian	S2	G4G5
<i>Gentianopsis detonsa</i> ssp <i>raupii</i>	northern fringed gentian	S1	G4T?
<i>Geranium carolinianum</i>	Carolina wild geranium	S2	G5
<i>Geranium erianthum</i>	geranium	S1	G5
<i>Glyceria elata</i>	tufted tall manna grass	SU	G4G5
<i>Gnaphalium microcephalum</i>	common cudweed	S1	G5
<i>Gnaphalium viscosum</i>	clammy cudweed	SH	G5
<i>Gymnocarpium jessoense</i>	northern oak fern	S1S2	G5
<i>Habenaria saccata</i>	slender bog orchid	S2S3	G5
<i>Hackelia ciliata</i>		SR	G3
<i>Halimolobos virgata</i>	halimolobos	S1	G4
<i>Heliotropium curassavicum</i>	spatulate-leaved heliotrope	S2	G5
<i>Heuchera glabra</i>	alpine alumroot	S1	G5
<i>Hieracium cynoglossoides</i>	woolly hawkweed	S2S3	G?
<i>Hierochloa alpina</i>	alpine sweet grass	S2	G5
<i>Hippuris montana</i>	mountain mare's-tail	S1	G4
<i>Hordeum pusillum</i>	little barley	SH	G5
<i>Houstonia longifolia</i>	long-leaved bluets	S2	G4G5
<i>Hymenopappus filifolius</i>	tufted hymenopappus	S1S2	G5
<i>Hypericum formosum</i> var <i>scouleri</i>	western St. John's-wort	S2	G5T?
<i>Hyperticum majus</i>	large Canada St. John's-wort	S1S2	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Iliamna rivularis</i>	mountain hollyhock	S2	G5
<i>Iris missouriensis</i>	western blue flag	S1	G5
<i>Isoetes bolanderi</i> var <i>bolanderi</i>	Bolander's quillwort	S1	G4T4
<i>Isoetes echinospora</i>	northern quillwort	S1	G5
<i>Isoetes howellii</i>		SP	G4G5
<i>Isoetes maritima</i>		S1	G3?
<i>Isoetes occidentalis</i>		S1	G4G5
<i>Isoetes x truncata</i>		SHYB	HYB
<i>Juncus biglumis</i>	two-glumed rush	S2	G5
<i>Juncus brevicaudatus</i>	short-tail rush	S1	G5
<i>Juncus confusus</i>	few-flowered rush	S2	G5
<i>Juncus filiformis</i>	thread rush	S2S3	G5
<i>Juncus nevadensis</i>	Nevada rush	S1	G5
<i>Juncus parryi</i>	Parry's rush	S2	G4G5
<i>Juncus regelii</i>	Regel's rush	S1	G5
<i>Juncus stygius</i> var <i>americanus</i>	marsh rush	S2	G5T5
<i>Koenigia islandica</i>	koenigia	S1	G4
<i>Lactuca biennis</i>	tall blue lettuce	S2	G5
<i>Larix occidentalis</i>	western larch	S2	G5
<i>Lesquerella arctica</i> var <i>purshii</i>	northern bladderpod	S2	G4T?
<i>Lewisia pygmaea</i> var <i>pygmaea</i>	dwarf bitter-root	S2	G5T5
<i>Lewisia rediviva</i>	bitter-root	S1	G5
<i>Lilaea scilloides</i>	flowering-quillwort	S1	G4
<i>Linanthus septentrionalis</i>	linanthus	S1S2	G5
<i>Linaria canadensis</i>	field toad-flax	S1	G4G5
<i>Listera caurina</i>	western twayblade	S1	G4?
<i>Listera convallarioides</i>	broad-lipped twayblade	S2	G5
<i>Lithophragma glabrum</i>	rockstar	S2	G4G5
<i>Lithophragma parviflorum</i>	small-flowered rockstar	S2	G5
<i>Lobelia dortmanna</i>	water lobelia	S1	G4
<i>Lobelia spicata</i>	spiked lobelia	S1	G5
<i>Loiseleuria procumbens</i>	alpine azalea	S2	G5
<i>Lomatium cous</i>	biscuit-root	S1	G5
<i>Lomatogonium rotatum</i>	marsh felwort	S2	G5
<i>Lupinus arcticus</i> ssp <i>subalpinus</i>		SU	G?

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Lupinus minimus</i>	least lupine	S2	G3G4
<i>Lupinus polyphyllus</i>	large leaved lupine	S1?	G5
<i>Lupinus wyethii</i>	Wyeth's lupine	S1	G5
<i>Luzula acuminata</i>	wood-rush	S1	G5
<i>Luzula groenlandica</i>	wood-rush	S1	G4
<i>Luzula rufescens</i>	reddish wood-rush	S1	G5
<i>Lycopodium inundatum</i>	bog club-moss	S1	G5
<i>Lycopodium selago</i>	mountain club-moss	SU	G5
<i>Lycopodium sitchense</i>	ground-fir	S2	G5
<i>Lycopus americanus</i>	American water-horehound	S2	G5
<i>Lygodesmia rostrata</i>	annual skeletonweed	S2	G5?
<i>Lysimachia lanceolata</i>	lance-leaved loosestrife	S1S2	G5
<i>Machaeranthera tanacetifolia</i>	tansy aster	SR	G5
<i>Malaxis monophylla</i>	white adder's-mouth	S2	G5
<i>Malaxis paludosa</i>	bog adder's-mouth	S1	G4
<i>Marsilea vestita</i>	hairy pepperwort	S1S2	G5
<i>Melica hitchcockii</i>		SR	G?
<i>Melica smithii</i>	melic grass	S2	G4
<i>Melica spectabilis</i>	onion grass	S2	G5
<i>Mertensia lanceolata</i>	lance-leaved lungwort	S2?	G5
<i>Mertensia longiflora</i>	large-flowered lungwort	S2?	G4G5
<i>Microsteris gracilis</i>	slender phlox	S1S2	G5
<i>Mimulus breweri</i>		S1	G4?
<i>Mimulus floribundus</i>	small yellow monkeyflower	S1S2	G5
<i>Mimulus glabratus</i>	smooth monkeyflower	S1	G5
<i>Mimulus guttatus</i>	yellow monkeyflower	SU	G5
<i>Mimulus tilingii</i>		SU	G5
<i>Minuartia elegans</i>	purple alpine sandwort	S1S2	G4G5
<i>Minuartia yukonensis</i>		SR	G3G4
<i>Monotropa hypopithys</i>	pinemap	S2	G5
<i>Montia linearis</i>	linear-leaved montia	S2	G5
<i>Montia parvifolia</i>	small-leaved montia	S1S2	G4G5
<i>Muhlenbergia asperifolia</i>	scratch grass	S2	G5
<i>Muhlenbergia racemosa</i>	marsh muhly	S1	G5
<i>Munroa squarrosa</i>	false buffalo grass	S1	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Najas flexilis</i>	slender naiad	S1S2	G5
<i>Nemophila breviflora</i>	small baby blue eyes	S2	G5
<i>Nothocalais cuspidata</i>	prairie false dandelion	S1S2	G5
<i>Nymphaea tetragona ssp leibergii</i>		S1	G5T5
<i>Nymphaea tetragona ssp tetragona</i>		S1	G5T5
<i>Oenothera andina</i>	upland evening-primrose	S1	G4
<i>Oenothera breviflora</i>	taraxia	S1	G5
<i>Oenothera flava</i>	low yellow evening-primrose	S1	G5
<i>Oenothera psammophila</i>		SU	G3
<i>Oenothera serrulata</i>	shrubby evening-primrose	S2	G5
<i>Onosmodium molle</i>	western false gromwell	S2	G4G5
<i>Oplopanax horridus</i>	devil's-club	S2S3	G4G5
<i>Orobanche ludoviciana</i>	Louisiana broom-rape	S2	G5
<i>Orobanche uniflora</i>	one-flowered cancer-root	S2S3	G5
<i>Oryzopsis canadensis</i>	Canadian rice grass	S1	G5
<i>Oryzopsis exigua</i>	little rice grass	S1	G5
<i>Oryzopsis micrantha</i>	little-seed rice grass	S2	G5
<i>Osmorhiza longistylis</i>	smooth sweet cicely	S2	G5
<i>Osmorhiza purpurea</i>	purple sweet cicely	S2	G4G5
<i>Oxytropis jordalii ssp jordalii</i>	purple mountain locoweed	S2	G4T4
<i>Oxytropis lagopus var conjugans</i>	hare-footed locoweed	S2	G4T3
<i>Papaver kluanensis</i>	alpine poppy	S2	G3?Q
<i>Papaver pygmaeum</i>	alpine poppy	S2	G3
<i>Parietaria pensylvanica</i>	American pellitory	S2	G5
<i>Parnassia parviflora</i>	small northern grass-of-parnassus	S2	G4
<i>Pedicularis arctica</i>	Arctic lousewort	S2	G4
<i>Pedicularis capitata</i>	large-flowered lousewort	S2	G4
<i>Pedicularis lanata</i>	woolly lousewort	S2	G4G5
<i>Pedicularis racemosa</i>	leafy lousewort	S1	G5
<i>Pedicularis sudetica</i>	purple rattle	S1	G5
<i>Pellaea gastonyi</i>		S1S2	G2G4
<i>Pellaea glabella</i>	smooth cliff brake	S3?	G5
<i>Penstemon fruticosus var scouleri</i>	shrubby beardtongue	S2	G4T?
<i>Phacelia linearis</i>	linear-leaved scorpionweed	S2	G5
<i>Phacelia lyallii</i>	Lyall's scorpionweed	S2S3	G3G4

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Phegopteris connectilis</i>	northern beech fern	S2	G5
<i>Philadelphus lewisii</i>	mock orange	S1	G5
<i>Phippsia algida</i>		SR	G5
<i>Physocarpus malvaceus</i>	mallow-leaved ninebark	S1	G4G5
<i>Physostegia ledinghamii</i>		S2	G3
<i>Pinguicula villosa</i>	small butterwort	S1S2	G4
<i>Pinus monticola</i>	western white pine	SU	G5
<i>Pinus ponderosa</i>	ponderosa pine	S1	G5
<i>Plantago canescens</i>	western ribgrass	S2	G4G5
<i>Plantago maritima</i>	sea-side plantain	S1	G5
<i>Poa gracillima</i>	Pacific bluegrass	S2	G4
<i>Poa laxa ssp banffiana</i>		SR	G5?T1
<i>Poa leptocoma</i>	bog bluegrass	S2	G5
<i>Poa lettermanii</i>	Letterman's bluegrass	S1S2	G4
<i>Poa nervosa</i>	Wheeler's bluegrass	S2	G5
<i>Poa nevadensis</i>	Nevada bluegrass	SU	G5
<i>Poa stenantha</i>	bluegrass	SU	G5
<i>Polanisia dodecandra</i>	clammyweed	S1	G5Q
<i>Polygala paucifolia</i>	fringed milkwort	S1	G5
<i>Polygonum austiniiae</i>	Austin's knotweed	S1	G4
<i>Polygonum engelmannii</i>	slender knotweed	S1S2	G?
<i>Polygonum minimum</i>	least knotweed	S2	G5
<i>Polygonum watsonii</i>	Watson's knotweed	S1S2	G3G4
<i>Polypodium hesperium</i>	western polypody	S2	G5
<i>Polypodium sibiricum</i>		SU	G5?
<i>Polypodium virginianum</i>	rock polypody	S2	G5
<i>Populus angustifolia</i>	narrow-leaf cottonwood	S2	G5
<i>Potamogeton foliosus</i>	leafy pondweed	S1S2	G5
<i>Potamogeton natans</i>	floating-leaf pondweed	S2	G5
<i>Potamogeton obtusifolius</i>	blunt-leaved pondweed	S2	G5
<i>Potamogeton praelongus</i>	white-stem pondweed	S2	G5
<i>Potamogeton robbinsii</i>	Robbins' pondweed	S1	G5
<i>Potamogeton strictifolius</i>	linear-leaved pondweed	S1S2	G5
<i>Potentilla drummondii</i>	Drummond's cinquefoil	S2	G5
<i>Potentilla finitima</i>	sandhills cinquefoil	S1	G?

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Potentilla hookeriana</i>	Hooker's cinquefoil	S1S2	G4
<i>Potentilla macounii</i>		S1?	G2?
<i>Potentilla multifida</i>	branched cinquefoil	S1	G5
<i>Potentilla multiseeta</i>	smooth-leaved cinquefoil	S1	G3G4Q
<i>Potentilla paradoxa</i>	bushy cinquefoil	S2	G5
<i>Potentilla plattensis</i>	low cinquefoil	S2	G4
<i>Potentilla subjuga</i>		S1	G3?
<i>Potentilla villosa</i>	hairy cinquefoil	S2S3	G4
<i>Prenanthes alata</i>	white lettuce	S1	G5
<i>Prenanthes sagittata</i>	purple rattlesnakeroot	S2	G3G4
<i>Primula egaliksensis</i>	primrose	S2	G4
<i>Primula stricta</i>	erect primrose	S1S2	G4
<i>Psilocarphus elatior</i>	woollyheads	S2	G4Q
<i>Psoralea argophylla</i>	silverleaf psoralea	S2S3	G5
<i>Pterospora andromedea</i>	pine-drops	S2	G5
<i>Puccinellia cusickii</i>	Cusick's salt-meadow grass	SU	G3G4
<i>Puccinellia distans ssp hauptiana</i>		S1	G3G4
<i>Puccinellia pauciflora</i>	few-flowered salt-meadow grass	S1	G?
<i>Pyrola grandiflora</i>	Arctic wintergreen	S2	G5
<i>Pyrola picta</i>	white-veined wintergreen	S1	G4G5
<i>Ranunculus eximius</i>		SP	G4Q
<i>Ranunculus glaberrimus</i>	early buttercup	S2	G5
<i>Ranunculus grayi</i>	Gray's buttercup	S2	G4G5
<i>Ranunculus nivalis</i>	snow buttercup	S1	G5
<i>Ranunculus occidentalis var brevistylis</i>	western buttercup	S2	G5T5
<i>Ranunculus uncinatus</i>	hairy buttercup	S2	G5
<i>Ranunculus verecundus</i>	alpine buttercup	S2	G5
<i>Rhododendron lapponicum</i>	Lapland rose-bay	S2	G5
<i>Rhynchospora capillacea</i>	slender beak-rush	S1	G5
<i>Ribes laxiflorum</i>	mountain currant	S2	G5
<i>Romanzoffia sitchensis</i>	Sitka romanzoffia	S2	G4
<i>Rorippa curvipes</i>	yellow cress	SU	G5
<i>Rorippa sinuata</i>	spreading yellow cress	S2	G5
<i>Rorippa tenerrima</i>	slender cress	S2	G5
<i>Rorippa truncata</i>	blunt-leaved yellow cress	S1	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Rumex paucifolius</i>	alpine sheep sorrel	S1	G4
<i>Ruppia maritima</i>	widgeon grass	S2	G5
<i>Sagina decumbens</i>	spreading pearlwort	S1	G5
<i>Sagina nivalis</i>	pearlwort	SU	G5
<i>Sagina nodosa</i>	pearlwort	S1	G5
<i>Sagittaria latifolia</i>	broad-leaved arrowhead	S1	G5
<i>Salix alaxensis</i> var <i>alaxensis</i>	Alaska willow	S2	G5T?
<i>Salix commutata</i>	changeable willow	S1	G5
<i>Salix lanata</i> ssp <i>calcicola</i>	woolly willow	S2	G4T4
<i>Salix planifolia</i> ssp <i>tyrrellii</i>		SR	G5T2
<i>Salix raupii</i>	Raup's willow	S1	G2
<i>Salix sitchensis</i>	Sitka willow	S1	G5
<i>Salix stolonifera</i>	willow	S1	G4G5
<i>Sarracenia purpurea</i>	pitcher-plant	S2	G5
<i>Saussurea americana</i>	American saw-wort	S1	G5
<i>Saxifraga ferruginea</i>	saxifrage	S2	G5
<i>Saxifraga flagellaris</i> ssp <i>setigera</i>	spiderplant	S2	G5T?
<i>Saxifraga nelsoniana</i> ssp <i>porsildiana</i>	Nelson's saxifrage	S2	G5T3T4
<i>Saxifraga nivalis</i>	alpine saxifrage	S2	G4G5
<i>Saxifraga odontoloma</i>	saxifrage	S1?	G5
<i>Saxifraga oregana</i> var <i>montanensis</i>	Oregon saxifrage	SU	G4G5T?Q
<i>Saxifraga subapetala</i>		SR	G2G3Q
<i>Schizachyrium scoparium</i> var <i>scoparium</i>	little bluestem	S2	G5T?
<i>Scirpus clintonii</i>	Clinton's bulrush	S1	G4
<i>Scirpus fluviatilis</i>	river bulrush	S1	G5
<i>Scirpus pallidus</i>	pale bulrush	S1	G5
<i>Scirpus pumilus</i> var <i>rollandii</i>	dwarf bulrush	S2	G?T3
<i>Scirpus rufus</i>	Red Bulrush	S1	G5
<i>Sedum divergens</i>	spreading stonecrop	S2	G5?
<i>Selaginella wallacei</i>	Wallace's little club-moss	S1	G5
<i>Senecio cymbalarioides</i>	ragwort	S1	G5
<i>Senecio integerrimus</i> var <i>ochroleucus</i>		SR	G5T?
<i>Silene antirrhina</i>	sleepy catchfly	SE?	G5
<i>Silene furcata</i>	alpine bladder catchfly	S2	G5
<i>Sisyrinchium septentrionale</i>	pale blue-eyed grass	S2	G3G4

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Sitanion hystrix</i>	squirreltail	S2	G5
<i>Sparganium fluctuans</i>	bur-reed	S1	G5
<i>Sparganium glomeratum</i>	bur-reed	S1	G4?
<i>Sparganium hyperboreum</i>	northern bur-reed	S1	G5
<i>Spartina pectinata</i>	prairie cord grass	S1	G5
<i>Spergularia marina</i>	salt marsh sand spurry	S2	G5
<i>Sphenopholis obtusata</i>	prairie wedge grass	S2	G5
<i>Spiraea densiflora</i>	pink meadowsweet	S1	G5
<i>Spiranthes lacera</i>	northern slender ladies'-tresses	S1	G5
<i>Stellaria americana</i>	American chickweed	S1	G3G4
<i>Stellaria arenicola</i>	sand-dune chickweed	S1	G3
<i>Stellaria crispa</i>	wavy-leaved chickweed	S2	G5
<i>Stellaria nitens</i>		SR	G5
<i>Stellaria obtusa</i>	chickweed	S1	G5
<i>Stellaria umbellata</i>	chickweed	S1S2	G5
<i>Stephanomeria runcinata</i>	rush-pink	S2	G5
<i>Streptopus roseus</i>	rose mandarin	S1	G5
<i>Streptopus streptopoides</i>	twisted-stalk	S1	G5
<i>Suaeda moquini</i>	Moquin's sea-blite	S2	G5
<i>Suckleya suckleyana</i>	poison suckleya	S2	G5
<i>Suksdorfia ranunculifolia</i>	suksdorfia	S2	G5
<i>Suksdorfia violacea</i>	blue suksdorfia	S1S2	G4
<i>Tanacetum huronense</i>	Indian tansy	S1	G5Q
<i>Taxus brevifolia</i>	western yew	S1	G4
<i>Telesonix heucheriformis</i>	telesonix	S2	G4
<i>Tellima grandiflora</i>	fringe-cups	S1?	G5
<i>Thelesperma marginatum</i>	greenthread	S1	G5
<i>Thellungiella salsuginea</i>	mouse-ear cress	S1	G4G5
<i>Thuja plicata</i>	western red cedar	S2	G5
<i>Torreyochloa pallida var fernaldii</i>		S?	G5?T4Q
<i>Townsendia condensata</i>	alpine townsendia	S1	G4
<i>Townsendia exscapa</i>	low townsendia	S1S2	G5
<i>Tradescantia occidentalis</i>	western spiderwort	S1	G5
<i>Triantha occidentalis ssp brevistyla</i>		SU	G5T4
<i>Triantha occidentalis ssp montana</i>		SU	G5T?

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Trillium ovatum</i>	western wakerobin	S1	G5
<i>Trisetum canescens</i>	tall trisetum	S1	G?
<i>Trisetum cernuum</i>	nodding trisetum	S2?	G5
<i>Trisetum montanum</i>	mountain trisetum	S1S2	G4G5
<i>Trisetum wolfii</i>	awnless trisetum	S1	G4
<i>Tsuga heterophylla</i>	western hemlock	S1	G5
<i>Typha angustifolia</i>	narrow-leaved cattail	SE?	G5
<i>Utricularia cornuta</i>	horned bladderwort	S1	G5
<i>Vaccinium ovalifolium</i>	oval-leaved blueberry	S2	G5
<i>Vaccinium uliginosum</i>	bog bilberry	S2S3	G5
<i>Veronica catenata</i>	water speedwell	S1S2	G5
<i>Veronica serpyllifolia</i>	thyme-leaved speedwell	S2	G?
<i>Viola macloskeyi var pallens</i>	Macloskey's violet	S1S2	G5T5
<i>Viola pedatifida</i>	crowfoot violet	S1S2	G5
<i>Viola praemorsa ssp linguifolia</i>		S2	G5T5
<i>Wolffia columbiana</i>	watermeal	S2	G5
<i>Woodsia glabella</i>	smooth woodsia	S1	G5
<i>Yucca glauca</i>	soapweed	S1	G5

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Appendix 3b. Non-vascular Plant Elements of Special Conservation Concern.

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Aloina brevirostris</i>	short-beaked rigid screw moss	S2	G3G5
<i>Aloina rigida</i>	aloe-like rigid screw moss	S2	G3G5
<i>Amblyodon dealbatus</i>		S2	G3G5
<i>Amphidium mougeotii</i>		S1	G5
<i>Andreaea alpestris</i>		S1	G?
<i>Andreaea blyttii</i>		S1	G5
<i>Andreaea nivalis</i>	red rock moss	S2	G5
<i>Andreaea rupestris</i>	black rock moss	S2	G5
<i>Anoetangium aestivum</i>		S1	G3G5
<i>Anomobryum filiforme</i>		S2	G4
<i>Anomodon minor</i>		S1	G5
<i>Aongstroemia longipes</i>		S2	G?
<i>Arctoa fulvella</i>		S1	G3G5
<i>Atrichum undulatum</i>	undulated crane's bill moss	S1S2	G5
<i>Aulacomnium androgynum</i>		S2	G5
<i>Barbula coreensis</i>		S1	G?
<i>Bartramia halleriana</i>		S1	G4G5
<i>Blindia acuta</i>	sharp-pointed weissia	S1S2	G5
<i>Brachythecium acutum</i>		SU	G?Q
<i>Brachythecium albicans</i>		S2?	G5
<i>Brachythecium campestre</i>		S2	G4G5Q
<i>Brachythecium erythrorrhizon</i>		S2	G5
<i>Brachythecium hylotapetum</i>		S2	G?
<i>Brachythecium leibergii</i>		S2	G?
<i>Brachythecium nelsonii</i>		S2	G?
<i>Brachythecium plumosum</i>		S2	G5
<i>Brachythecium reflexum</i>		S1	G4G5
<i>Brachythecium rutabulum</i>		S2?	G5
<i>Bryobrittonia longipes</i>		S3	G3
<i>Bryoerythrophyllum ferruginascens</i>	red leaf moss	S2	G4
<i>Bryohaplocladium virginianum</i>		SU	G5
<i>Bryum algovicum</i>		S2	G4G5
<i>Bryum amblyodon</i>		S1	G?
<i>Bryum arcticum</i>		S1	G?

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Bryum calobryoides</i>		S1	G3
<i>Bryum calophyllum</i>		S1	G?
<i>Bryum cyclophyllum</i>		S1	G4G5
<i>Bryum dichotomum</i>		S1	G5?
<i>Bryum knowltonii</i>		S1	G3G4
<i>Bryum marratii</i>		S1	G3G4
<i>Bryum meesioides</i>		SR	G3G4
<i>Bryum muehlenbeckii</i>		S1	G4G5
<i>Bryum pallens</i>		S2	G4G5
<i>Bryum pallescens</i>		S2	G5
<i>Bryum purpurascens</i>		S1	G3G4
<i>Bryum schleicheri</i>		S1	G?
<i>Bryum stirtonii</i>		S1S2	G?
<i>Bryum turbinatum</i>		SU	G5
<i>Bryum uliginosum</i>		S2	G3G5
<i>Buxbaumia aphylla</i>	bug on a stick	S2	G3
<i>Buxbaumia viridis</i>	green shield moss	S1	G4
<i>Campylium polygamum</i>		S3	G5
<i>Campylium radicale</i>		S1	G3G5
<i>Cirriphyllum cirrosum</i>		S2	G?
<i>Claopodium bolanderi</i>		S2	G4
<i>Conardia compacta</i>		S2	G3G5
<i>Coscinodon calyptratus</i>	sieve-toothed moss	S2	G?
<i>Coscinodon cribrosus</i>		S1	G3?
<i>Cynodontium glaucescens</i>	glaucous shield moss	S1	G3G4
<i>Cynodontium schisti</i>		S1	G3G5
<i>Cynodontium strumiferum</i>		S2	G3G5
<i>Cynodontium tenellum</i>		S2	G?
<i>Cyrtomnium hymenophylloides</i>		S1S2	G5?
<i>Desmatodon cernuus</i>	narrow-leafed chain-teeth moss	S1	G3G5
<i>Desmatodon guepinii</i>		SR	G3G5
<i>Desmatodon heimii</i>	long-stalked beardless moss	S2	G5
<i>Desmatodon laureri</i>		S1	G?
<i>Desmatodon leucostoma</i>		S2	G?
<i>Desmatodon randii</i>		S1	G2G3

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Desmatodon systylius</i>		S2	G4G5
<i>Dichelyma falcatum</i>		S1	G4G5
<i>Dichodontium olympicum</i>		S1	G?
<i>Dicranella cerviculata</i>	red necked fork moss	SR	G?
<i>Dicranella crispa</i>	curl-leaved fork moss	S2	G?
<i>Dicranella heteromalla</i>	silky fork moss	S1	G?
<i>Dicranella palustris</i>	drooping-leaved fork moss	S1?	G?
<i>Dicranella subulata</i>	awl-leaved fork moss	S2S3	G?
<i>Dicranum angustum</i>	cushion moss	S1S2	G?
<i>Dicranum majus</i>	greater fork moss	S1	G4G5
<i>Dicranum ontariense</i>	cushion moss	S1	G4G5
<i>Dicranum pallidisetum</i>	alpine curly heron's bill moss	S1	G?
<i>Dicranum spadiceum</i>	cushion moss	S2S3	G?
<i>Dicranum tauricum</i>	broken-leaf moss	S1S2	G4
<i>Didymodon asperifolius</i>		S?	G3G5
<i>Didymodon fallax</i>	fallacious screw moss	S2	G5
<i>Didymodon johansenii</i>		S2	G?
<i>Didymodon nigrescens</i>		S1	G?
<i>Didymodon rigidulus</i>	rigid screw moss	S2	G5
<i>Didymodon subandreaeoides</i>		S2	G?
<i>Didymodon tophaceus</i>	blunt-leaved hair moss	S2	G5
<i>Didymodon vinealis</i>		S1	G5
<i>Discelium nudum</i>	naked weissia	S1	G3G4
<i>Ditrichum montanum</i>		S1	G?
<i>Drepanocladus brevifolius</i>	brown moss	S1	G?
<i>Drepanocladus capillifolius</i>	brown moss	S1	G?
<i>Drepanocladus crassicostratus</i>	brown moss	S1	G?
<i>Dryptodon patens</i>	spreading fringe moss	S2	G4G5
<i>Encalypta brevicolla</i>	candle-snuffer moss	S2	G4
<i>Encalypta brevipes</i>	candle-snuffer moss	S1	G3
<i>Encalypta intermedia</i>	candle-snuffer moss	S2	G?
<i>Encalypta longicolla</i>	candle-snuffer moss	S1	G3G4
<i>Encalypta spathulata</i>	candle-snuffer moss	S2	G3?
<i>Encalypta vulgaris</i>	common extinguisher moss	S1S2	G5
<i>Entodon breviseris</i>		SR	G3?

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Entodon concinnus</i>		S2S3	G4G5
<i>Entodon schleicheri</i>		S1	G3G5
<i>Fissidens adianthoides</i>	maidenhair moss	S2S3	G5
<i>Fissidens grandifrons</i>	narrow leaved Chinese phoenix moss	S2	G3G5
<i>Fissidens limbatus</i>		S?	G3G5
<i>Fontinalis antipyretica</i>		S2	G5
<i>Fontinalis dalecarlica</i>		S?	G3G5
<i>Fontinalis missourica</i>		S?	G2G4
<i>Fontinalis neomexicana</i>		S2	G3G5
<i>Funaria americana</i>	cord moss	S1	G2G3
<i>Funaria muhlenbergii</i>	Muhlenberg's cord moss	S1	G4
<i>Grimmia anomala</i>	mountain forest grimmia	S2	G?
<i>Grimmia donniana</i>	Donian grimmia	S2	G4G5
<i>Grimmia elatior</i>	large grimmia	SR	G?
<i>Grimmia incurva</i>	black grimmia	S1	G4G5
<i>Grimmia montana</i>	sun grimmia	S2	G?
<i>Grimmia pilifera</i>	hair giboshi moss	S1	G4G5
<i>Grimmia pulvinata</i>	grey-cushioned grimmia	SR	G4G5
<i>Grimmia tenerrima</i>	alpine grimmia	S2	G3G5
<i>Grimmia teretinervis</i>		S1	G3G5
<i>Grimmia torquata</i>	twisted-leaved grimmia	S2	G3G5
<i>Grimmia trichophylla</i>	hair-pointed grimmia	S1	G5?
<i>Gymnostomum aeruginosum</i>	tufted rock beardless moss	S2?	G5
<i>Herzogiella seligeri</i>		S1	G4
<i>Herzogiella turfacea</i>		S1	G4G5
<i>Heterocladium dimorphum</i>		S1	G4G5
<i>Homalothecium nevadense</i>		S2?	G4
<i>Homalothecium pinnatifidum</i>		S2?	G4
<i>Homomallium adnatum</i>		SR	G3G5
<i>Hydrogrimmia mollis</i>		S1	G3G5
<i>Hygroamblystegium noterophilum</i>		S1	G4
<i>Hygroamblystegium tenax</i>		S2	G5
<i>Hygrohypnum alpestre</i>		S1	G3G5
<i>Hygrohypnum bestii</i>		S2S3	G4
<i>Hygrohypnum cochlearifolium</i>		S1	G?

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Hygrohypnum duriusculum</i>		S1	G?
<i>Hygrohypnum molle</i>		SR	G4G5
<i>Hygrohypnum ochraceum</i>		S2	G5
<i>Hygrohypnum smithii</i>		S1	G3G5
<i>Hygrohypnum styriacum</i>		S2	G?
<i>Hylacomiastrum pyrenaicum</i>		S2	G4G5
<i>Hypnum callichroum</i>		S2	G?
<i>Hypnum pallescens</i>		SU	G5
<i>Hypnum procerrimum</i>		S3	G3G4
<i>Hypnum recurvatum</i>		S2	G3G5
<i>Jaffueliobryum raui</i>		S1	G4?
<i>Jaffueliobryum wrightii</i>		S2	G3G4
<i>Kiaeria blyttii</i>	Blytt's fork moss	S1S2	G5
<i>Kiaeria falcata</i>	sickle-leaved fork moss	SR	G5
<i>Kiaeria starkei</i>	alpine broom moss	S2	G5
<i>Lescuraea saxicola</i>		S1	G4G5
<i>Leskea gracilescens</i>		S1?	G5
<i>Leskea obscura</i>		S1?	G5
<i>Leskea polycarpa</i>		S1?	G4G5
<i>Leskeella nervosa</i>		S2	G5
<i>Limprichtia cossonii</i>		SU	G?
<i>Loeskypnum badium</i>		S1	G4G5
<i>Meesia longiseta</i>		S1	G3G4
<i>Mielichhoferia macrocarpa</i>		S1	G2?
<i>Mnium ambiguum</i>		S2	G5
<i>Myurella sibirica</i>		SR	G4?
<i>Neckera pennata</i>		S2?	G5
<i>Oligotrichum aligerum</i>		SR	G5
<i>Oligotrichum hercynicum</i>	Hercynian hair moss	S2	G5
<i>Oligotrichum parallelum</i>		S2	G5
<i>Oreas martiana</i>		S1	G5?
<i>Orthothecium intricatum</i>		S2	G4G5
<i>Orthothecium strictum</i>		S2	G?
<i>Orthotrichum affine</i>		S2	G3G5
<i>Orthotrichum pullens</i>		S2	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Orthotrichum pumilum</i>		S1S2	G5
<i>Orthotrichum pylatstii</i>		S2	G4G5
<i>Oxystegus tenuirostris</i>	acid-soil moss	S1	G5
<i>Paraleucobryum longifolium</i>	long-leaved fork moss	S1	G5
<i>Phascum cuspidatum</i>	cuspidate earth moss	S2	G5
<i>Phascum vlassovii</i>		S1	G2?
<i>Philonotis marchica</i>		S1	G5
<i>Philonotis yezoana</i>		S1	G2G3
<i>Physcomitrium hookeri</i>	bladder-cap moss	S1	G2G4
<i>Physcomitrium pyriforme</i>	urn moss	S1	G5
<i>Plagiobryum demissum</i>		S1	G?
<i>Plagiobryum zierii</i>		S2	G3G4
<i>Plagiomnium rostratum</i>		S1	G5
<i>Platydictya minutissima</i>		SU	G3
<i>Pogonatum dentatum</i>	hair-like pogonatum	S2S3	G3G4
<i>Pogonatum urnigerum</i>	urn-like pogonatum	S2S3	G5
<i>Pohlia andalusica</i>		S1	G?
<i>Pohlia annotina</i>		S1	G4G5
<i>Pohlia atropurpurea</i>		S2	G4G5
<i>Pohlia brevinervis</i>		S1	G?
<i>Pohlia bulbifera</i>		S1	G4G5
<i>Pohlia camptotrachela</i>		SR	G?
<i>Pohlia columbica</i>		SR	G?
<i>Pohlia crudoides</i>		S1	G?
<i>Pohlia drummondii</i>		S2	G3G4
<i>Pohlia elongata</i>		S1	G4G5
<i>Pohlia filum</i>		S1	G4G5
<i>Pohlia longicolla</i>		S1	G4G5
<i>Pohlia obtusifolia</i>		S1	G?
<i>Polytrichum longisetum</i>	slender hairy-cap	S1	G5
<i>Polytrichum lyallii</i>	hair cap moss	S2	G?
<i>Polytrichum sexangulare</i>	northern hair moss	S2	G4
<i>Pottia intermedia</i>		SR	G2G4
<i>Pottia nevadensis</i>		SR	G4
<i>Pottia truncata</i>	little blunt-fruited beardless moss	SR	G3G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Pseudobryum cinclidioides</i>		S1	G5
<i>Pseudoleskea patens</i>		S2	G5
<i>Pseudoleskea stenophylla</i>		S1S2	G?
<i>Pseudoleskeella sibirica</i>		S2	G?
<i>Pterygoneurum ovatum</i>	hairy-leaved beardless moss	S1	G5
<i>Pterygoneurum subsessile</i>		S2	G4?
<i>Racomitrium aciculare</i>		S1S2	G5
<i>Racomitrium affine</i>		SU	G?
<i>Racomitrium elongatum</i>		SU	G?
<i>Racomitrium fasciculare</i>		S1	G5
<i>Racomitrium heterostichum</i>		SU	G5
<i>Racomitrium macounii</i>		S1	G?
<i>Racomitrium microcarpon</i>		SU	G?
<i>Racomitrium sudeticum</i>		SU	G?
<i>Rhizomnium andrewsianum</i>		S1	G3G5
<i>Rhizomnium nudum</i>		S2	G?
<i>Rhodobryum ontariense</i>		S1	G5
<i>Rhytidiadelphus squarrosus</i>	pipecleaner moss	S2	G4G5
<i>Schistidium agassizii</i>	elf bloom moss	S1	G3G5
<i>Schistidium heterophyllum</i>		SR	G3
<i>Schistidium pulvinatum</i>		S1	G5
<i>Schistidium tenerum</i>	thread bloom moss	S1	G?
<i>Schistidium trichodon</i>		S1	G?
<i>Schistostega pennata</i>	luminous moss	S1	G4G5
<i>Scleropodium cespitans</i>		SR	G4
<i>Scleropodium obtusifolium</i>		SR	G4
<i>Scouleria aquatica</i>		S2	G4
<i>Seligeria calcarea</i>	chalk brittle moss	S1	G3G4
<i>Seligeria campylopoda</i>		S2	G3G5
<i>Seligeria donniana</i>	Donian beardless moss	S2	G4G5
<i>Seligeria subimmersa</i>		S2	G?
<i>Seligeria tristichoides</i>		SU	G4
<i>Sphagnum balticum</i>	peat moss	S1	G?
<i>Sphagnum compactum</i>	neat bog moss	S2	G5
<i>Sphagnum contortum</i>	twisted bog moss	S2	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>S Rank</u>	<u>G Rank</u>
<i>Sphagnum fallax</i>	peat moss	S2	G5
<i>Sphagnum fimbriatum</i>	fringed bog moss	S2S3	G5
<i>Sphagnum lindbergii</i>	Lindberg's bog moss	S2S3	G5?
<i>Splachnum ampullaceum</i>	flagon-fruited splachnum	S2	G5
<i>Splachnum rubrum</i>	red collar moss	S2	G3
<i>Splachnum vasculosum</i>	large-fruited splachnum	S1S2	G?
<i>Stegonia pilifera</i>		S2	G?
<i>Tayloria froelichiana</i>	Froelichian splachnum	S1	G?
<i>Tayloria hornschurchii</i>	small-kettle moss	S1	G?
<i>Tayloria lingulata</i>	tongue-leaf small-kettle moss	S2S3	G3G5
<i>Tayloria serrata</i>	slender splachnum	S2	G5
<i>Tayloria splachnoides</i>	splachnoid cyrtodon	S1	G2G3
<i>Tetraplodon urceolatus</i>	alpine lemming moss	S2	G?
<i>Thamnobryum neckeroides</i>		S1	G?
<i>Thuidium delicatulum</i>		SR	G5
<i>Thuidium philibertii</i>		S1S2	G5
<i>Timmia norvegica</i>		S2	G3G4
<i>Timmia sibirica</i>		S1	G?
<i>Tortella inclinata</i>	bent screw moss	S2	G4G5
<i>Tortula caninervis</i>		SR	G?
<i>Tortula princeps</i>	common twisted moss	SR	G5?
<i>Trichodon cylindricus</i>	narrow-fruited fork moss	S1	G4G5
<i>Ulota curvifolia</i>		S1	G3G5
<i>Voitia nivalis</i>	hidden kettle moss	S1	G4
<i>Warnstorfia pseudostraminea</i>	brown moss	S1	G2G3
<i>Warnstorfia tundrae</i>	brown moss	S2	G?
<i>Weissia controversa</i>	green-cushioned weissia	S1	G5
<i>Zygodon viridissimus</i>		S1	G5

Appendix 4. Vertebrate Animal Elements of Special Conservation Concern*

<i>Scientific Name</i>	<i>Common Name</i>	<i>Global Rank</i>	<i>Provincial Rank</i>	<i>Comments</i>
BUFO COGNATUS	Great Plains toad	G5	S2	
BUFO HEMIOPHRYX	Canadian toad	G4	S3S4	An example chosen from a limited northern population. A species considered at risk.
RANA PIPIENS	northern leopard frog	G5	S2S3	A species considered at risk.
RANA PRETIOSA	spotted frog	G3G4	S3	A G3G4 species. A G3 species may be rare and local throughout its range, or in a restricted range.
GAMIA STELLATA	red-throated loon	G5	S1B	
GAMIA PACIFICA	Pacific loon	G5	S1B	
PELECANUS ERYTHORHYNCHOS	American white pelican	G3	S2S3B	A G3 species. A G3 species may be rare and local throughout its range, or in a restricted range.
PLEGADIS CHIHUI	white-faced ibis	G5	S1B	
FALCO PEREGRINUS	peregrine falcon	G5	S3B	Peregrine populations south of the North Saskatchewan River were considered of special conservation concern.
CENTROCERCUS UROPHASIANUS	sage grouse	G5	S1S2	
CHARADRIUS MELODIUS	pipit plover	G3	S2B	A G3 species. A G3 species may be rare and local throughout its range, or in a restricted range.
CHARADRIUS MONTANUS	mountain plover	C2	S1B	
LARUS CANUS	mew gull	C5	S1B	
ATHENE CUNICULARIA	burrowing owl	C4	S2S3B	A species considered at risk.
CATHARUS MINIMUS	gray-cheeked thrush	C5	S1B	
SPZELLA ARBOREA	American tree sparrow	C5	S1B, SZN	
ICTERUS BULLOCKII	Bullock's oriole	C5	S1B	
LAMPETRA JAPONICA	Arctic lamprey	C4	S1	
COTTUS BAIRDI	mottled sculpin (St. Mary River sculpin)	C5	S1	
CYPRINUS ZENITHICUS	shortjaw cisco	C2	S1	Only one EO known from Alberta (i.e., Barrows Lake).
PROSOPIUM COULTERI	pygmy whitefish	C5	S1	
NOTROPIS BLENNIUS	river shiner	C5	S2	
CARPIODES CYPRINUS	quillback	C5	S2	
MOXOSTOMA ANISURUM	silver rehorse	C5	S2	
PERCINA CAPRODES	logperch	C5	S1	Two known populations of this species occur in Alberta (i.e., Marie Lake and Cold Lake).
Sorex vagrans	wandering shrew	C5	S1S2	
MYOTIS EVOTIS	long-eared bat	C5	S2	
MYOTIS VOLANS	long-legged bat	C5	S2	
TAMIAS RUFICALUDUS	red-tailed chipmunk	C5	S2	
PEROGNATHUS FASCIATUS	olive-backed pocket mouse	C5	S2S3	
DIPodomys ordii	Ord's kangaroo rat	C5	S2	
ONYCHOMYS LEUCOGASTER	northern grasshopper mouse	C5	S2S3	
MICROTUS XANTHOGNATHUS	yellow-cheeked vole	C5	S1H	
MICROTUS OCHROGASTER	prairie vole	C5	S2	Habitat very localized. Species' numbers may be lower than S3 rank indicates.
MICROTUS RICHARDSONI	water vole	C5	S3	Habitat very localized. Species' numbers may be lower than S3 rank indicates.
LAGURUS CURTATUS	sagebrush vole	C5	S3	Habitat very localized. Species' numbers may be lower than S3 rank indicates.

<i>Scientific Name</i>	<i>Common name</i>	<i>Global Rank</i>	<i>Provincial Rank</i>	<i>Comments</i>
CHRYSEMYS PICTA	painted turtle	C5	S1	
PHRYNOSOMA HERNANDESI	short-horned lizard	C5	S2S3	
HETERODON NASICUS NASICUS	plains hognose snake	C5T5	S2	
PITUOPHIS MELANOLEUCUS	bull snake	C5	S3	Only hibernacula EOs were identified. Hibernacula were considered a feature at risk.
CROTALUS VIRIDIS	prairie rattlesnake	C5	S3	Only hibernacula EOs were identified. Hibernacula were considered a feature at risk.
migratory bird nesting areas				
shorebird staging area				
Good examples of migratory bird nesting areas (i.e., waterbirds) were identified from ESA data.				
Important shorebird staging areas were identified based on Boston et al. (1990).				

*This list includes only those elements (excluding migratory bird nesting areas and shorebird staging areas) that have currently been processed in the ANHIC database. The provincial ranks are under review.