



## Criteria for Designating Plant Species of Special Concern and Significant Natural Communities

As described in the recently updated Goals and Policies of the Environmental Resources Elements (the ERE) of the Boulder County Comprehensive Plan, Species of Special Concern include the flora and fauna in the county whose populations may be threatened or endangered, locally rare, experiencing long-term non-cyclical population declines, isolated or restricted to distinct local habitat types, or native species which have ceased to exist within Boulder County. As provided for in Goal B.2 of the ERE, the Boulder County Species of Special Concern List (SSC List) includes this compilation of rare plants and significant natural communities of special status that warrant protection in order to prevent population or habitat loss. The list was developed through consultation with botany and plant ecology professionals in federal, state, and local governmental agencies, non-governmental conservation organizations, local universities, and private consultants, as well as Boulder County conservation experts. The majority of species and communities appearing on this list are recognized by the Colorado Natural Heritage Program (CNHP). CNHP is a non-profit organization sponsored by Colorado State University that tracks and ranks Colorado's rare and imperiled species and habitats. The list comprises species CNHP ranks as critically imperiled, imperiled, or vulnerable to extirpation globally (G1-G3) or statewide (S1-S3). Species ranked as more secure or secure (G4-G5, S4-S5) are excluded from the list.

The SSC List is intended to comprehensively document Boulder County species and communities as they exist today. To be listed on the SSC List, a species/community must meet at least one of the required or two or more of the conditional criteria. In some instances, a species has been included on the list even though it does not meet the SSC List criteria. This is based on professional judgment and only occurs with species for which there is presently incomplete or uncertain information available. The list will be updated as more information is learned about individual species or communities including changes to their status. Areas where these resources are known to occur or have a likelihood of occurring are illustrated on the respective maps of the Environmental Resource Element.

### Required

1. Species/Communities with Federal Status (listed or proposed threatened or endangered -- LT, LE, PT), candidates for listing -- C or under review for listing), e.g, Colorado butterfly plant (*Gaura neomexicana* ssp. *coloradensis*) – LT, G3T2/S1 (U.S. Fish and Wildlife Service 2013, CNHP 2013);
2. All G1-G2 and S1-S2 species that are not also federally listed;
3. Collectable/Harvestable: Species threatened by collection or harvest including showy varieties of orchids, lilies, penstemon, and cacti.

### Conditional

4. Species/communities with U.S. Forest Service Region 2 (USFS R2) sensitive species<sup>1</sup>, National Park Service (NPS) sensitive species within Rocky Mountain National Park (RMNP)<sup>2</sup>, or City of Boulder Open Space and Mountain Parks sensitive status;

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<sup>1</sup> This criterion acknowledges that USFS R2 boundaries extend beyond Boulder County and encompass habitats that do not occur within the county, thus not all USFS R2 sensitive species appear on the SSC List.

5. Species/communities that could occur within Boulder County and that CNHP ranks as critically imperiled, imperiled, or vulnerable to extirpation either globally (G1 – G3) or statewide (S1 – S3), e.g., autumn willow (*Salix serissima*) – G4/S1 and narrowleaf grapefern (*Botrychium neolunaria*) – G5/S3;
6. Relictual species/communities having undergone a documented long-term decline or having a critically low population size relative to their historic presence and/or relative abundance in a given ecosystem, e.g., American groundnut (*Apios americana*) – G5/S1 and big bluestem – prairie dropseed (*Andropogon gerardii* – *Sporobolus heterolepis*) – G2/S1S2;
7. Species/communities endemic to Boulder County or region<sup>3</sup>, e.g., Colorado aletes (*Aletes humilis*) – G2G3/S2S3;
8. Species/communities known or thought to be extinct or extirpated in Boulder County, i.e., species that historically occupied and are native to Boulder County, that may exist in surrounding regions, and that may be able to repopulate Boulder County, e.g., pale moonwort (*Botrychium pallidum*).
9. Species/communities whose populations in the County that are vulnerable to threats<sup>4</sup> affecting their populations either directly or indirectly, e.g. limber pine (*Pinus flexilis*);
10. Species/communities that have a disproportionately large effect on the diversity within the ecosystem(s) they inhabit e.g., montane riparian forests such as quaking aspen/thinleaf alder (*Populus tremuloides* / *Alnus incana*) forest – G3/S3;
11. Species/communities that are either naturally rare<sup>5</sup>, at the edge of their range in Boulder County, or are isolated or imperiled, e.g., black spleenwort (*Asplenium adiantum-nigrum*) – G5/S1, montane willow carrs such as *Salix bebbiana* shrubland – G3?/S2, and alkali wetlands such as *Suaeda calceoliformis* herbaceous vegetation – GU/S2;
12. Species/communities that support sensitive wildlife, e.g., Western Great Plains herbaceous vegetation (*Andropogon gerardii* – *Schizachyrium scoparium*) dominated by big and little bluestem, two native host plants for Arogos skipper (*Atrytone arogos*) – G3G4/S2.

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<sup>2</sup> This criterion acknowledges that that NPS RMNP boundaries extend beyond Boulder County and encompass habitats that do not occur within the county, thus not all NPS RMNP sensitive species appear on the SSC List.

<sup>3</sup> Species/communities endemic to Boulder County region indicates a species occurring only in Boulder County and in an adjacent county or counties.

<sup>4</sup> Direct or indirect threats to the stability of species populations or communities include disturbances such as climate change, disease, residential or commercial development, fire suppression, mechanical forest thinning, prescribed fire, etc.

<sup>5</sup> Species or communities that are “naturally rare” normally occur in low abundance throughout their range. While their populations may be stable, species that are rare on the landscape are more vulnerable to extirpation compared to species with large populations.

Boulder County Rare Plant Species and Significant Natural Communities SSC List

No.	State Scientific Name	State Common Name	CNHP Global Rank	CNHP State Rank	Federal Status (ESA)
<b>GYMNOSPERMS</b>					
1	<i>Pinus aristata</i>	bristlecone pine		SNR	
2	<i>Pinus flexilis</i>	limber pine			
<b>FERNS &amp; FERN ALLIES</b>					
1	<i>Argyrochosma fendleri</i>	Fendler's false cloak-fern	G3	S3	
2	<i>Asplenium adiantum-nigrum (A. andrewsii)</i>	black spleenwort	G5	S1	
3	<i>Botrychium campestre</i>	prairie moonwort	G3G4	S1	
4	<i>Botrychium echo</i>	reflected moonwort	G3	S3	
5	<i>Botrychium furcatum</i>	forkleaved moonwort	G1G2	S1S2	
6	<i>Botrychium furculatum</i>	redbank moonwort	G2G3	S3	
7	<i>Botrychium hesperium</i>	western moonwort	G4	S2	
8	<i>Botrychium lanceolatum var. lanceolatum</i>	lanceleaf moonwort	G5T4	S3	
9	<i>Botrychium lineare</i>	narrowleaf moonwort	G2?	S1	
10	<i>Botrychium neolunaria</i>	common moonwort	G5	S3	
11	<i>Botrychium minganense</i>	Mingan moonwort	G4	S2	
12	<i>Botrychium pallidum</i>	pale moonwort	G3	S2	
13	<i>Botrychium pinnatum</i>	northern moonwort	G4?	S1	
14	<i>Botrychium simplex</i>	least moonwort	G5	S2	
15	<i>Botrychium virginianum (Botrypus virginianus ssp. europaeus)</i>	rattlesnake fern	G5	S1	
16	<i>Dryopteris expansa</i>	spreading woodfern	G5	S1	
17	<i>Equisetum variegatum (Hippochaete variegata)</i>	variegated scouringrush	G5	S1	
18	<i>Gymnocarpium dryopteris</i>	western oakfern	G5	S2S3	
19	<i>Isoetes occidentalis</i>	western quillwort	G4G5	S1S2	
20	<i>Isoetes tenella (I.echiniospora)</i>	spiny-spore quillwort	G5?T5?	S2	
21	<i>Pellaea wrightiana</i>	Wright's cliffbrake	G5	S2	
22	<i>Polypodium saximontanum</i>	Rocky Mountain polypody	G3?	S2	
23	<i>Selaginella weatherbiana</i>	Weatherby's Spike-moss	G3G4	S3S4	
<b>NONVASCULAR</b>					
1	<i>Anacolia laevisphaera</i>	anacolia moss	G5?	S1S3	
2	<i>Anacolia menziesii</i>	Menzies' anacolia moss	G4	S1S3	
3	<i>Andreaea rupestris</i>	andreaea moss	G5	S1S3	
4	<i>Anoetangium hallii</i>				
5	<i>Aulacomnium palustre var. imbricatum</i>	aulacomnium moss	G5TNR	S1S3	
6	<i>Brachythecium hyalotapetum</i>	brachythecium moss			
7	<i>Bryoerythrophyllum ferruginascens</i>	bryoerythrophyllum moss	G3G4	S1S3	
8	<i>Bryum alpinum (Imbribryum alpinum)</i>	alpine bryum moss	G4G5	S1S3	
9	<i>Campylopus schimperi</i>	Schimper's campylopus moss	G3G4	S1S3	
10	<i>Didymodon anserinocapitatus</i>		G1	S1	
11	<i>Grimmia mollis (Hydrogrimmia mollis)</i>	grimmia dry rock moss	G3G5	S1S3	
12	<i>Grimmia teretinervis</i>	grimmia dry rock moss	G3G5	S1S3	
13	<i>Gymnomitrium corallioides</i>		G4G5	S1S3	
14	<i>Hylocomiastrum pyrenaicum</i>	hylocomiastrum moss	G4G5	S1S3	
15	<i>Hylocomium alaskanum</i>	splendid feather moss	G5	S1S3	

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16	<i>Leptopterigynandrum austro-alpinum</i>	alpine leptopterigynandrum moss	G3G5	S1S3	
17	<i>Mnium blyttii</i>	Blytt's calcareous moss	G5	S1S3	
18	<i>Nardia geoscyphus</i>		G5	S1S3	
19	<i>Oreas martiana</i>	oreas moss	G5?	S1S3	
20	<i>Plagiothecium cavifolium</i>	plagiothecium moss	G5	S1S3	
21	<i>Pleurozium schreberi</i>	Schreber's big red stem moss, feathermoss	G5	S1S3	
22	<i>Pohila tundrae</i>	Tundra pohlia moss	G2G3	S1S3	
23	<i>Ptilium crista-castrensis</i>	knights plume moss	G5	S1S3	
24	<i>Rhytidiopsis robusta</i>	robust rhytidiopsis moss			
25	<i>Rhytidiadelphus triquetrus</i>	rough goose neck moss			
26	<i>Roellia roellii</i>	Roell's moss	G4	S1S3	
27	<i>Sphagnum angustifolium</i>	sphagnum	G5	S2	
28	<i>Sphagnum contortum</i>	contorted sphagnum	G5	S1S3	
<b>MONOCOTS</b>					
1	<i>Aristida basiramea</i>	forked threeawn	G5	S1	
2	<i>Calypso bulbosa</i>	fairly slipper orchid	G5		
3	<i>Carex capitata</i> ssp. <i>arctogena</i>	capitate sedge	G5T4?	S1	
4	<i>Carex conoidea</i>	openfield sedge	G5	S1	
5	<i>Carex crawei</i>	Crawe's sedge	G5	S1	
6	<i>Carex diandra</i>	lesser paniced sedge	G5	S1	
7	<i>Carex lasiocarpa</i>	whollyfruit sedge	G5	S1	
8	<i>Carex limosa</i>	mud sedge	G5	S2	
9	<i>Carex livida</i>	livid sedge	G5	S1	
10	<i>Carex sartwellii</i>	Sartwell's sedge	G4G5	S1	
11	<i>Carex saximontana</i>	Rocky Mountain sedge	G5	S1	
12	<i>Carex sprengeii</i>	Sprengel's sedge	G5?	S2	
13	<i>Carex torreyi</i>	Torrey sedge	G4	S1	
14	<i>Cypripedium parviflorum</i> ( <i>C. calceolus</i> ssp. <i>parviflorum</i> )	lesser yellow lady's slipper	G5	S2	
15	<i>Cypripedium fasciculatum</i>	clustered lady's slipper	G4	S3S4	
16	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	greater yellow lady's slipper	G5	S2	
17	<i>Dichanthelium acuminatum</i> var. <i>sericeum</i>	Pacific panicgrass	G5TNR	S1	
18	<i>Eriophorum gracile</i>	slender cottongrass	G5	S1	
19	<i>Juncus biglumis</i>	twoflowered rush	G5	S3	
20	<i>Juncus brachycephalus</i>	smallhead rush	G5	S1	
21	<i>Juncus tweedyi</i> ( <i>J. brevicaudatus</i> )	Tweedy's rush	G3Q	S1	
22	<i>Juncus vaseyi</i>	Vasey's rush	G5?	S1	
23	<i>Kobresia simpliciuscula</i>	simple bog sedge	G5	S2	
24	<i>Lilium philadelphicum</i>	wood lily	G5	S3S4	
25	<i>Listera borealis</i>	northern twayblade	G4	S2	
26	<i>Listera convallarioides</i>	broadlipped twayblade	G5	S2	
27	<i>Luzula subcapitata</i>	Colorado wood-rush	G3?	S3	
28	<i>Malaxis brachypoda</i> ( <i>M. monophyllos</i> ssp. <i>brachypoda</i> )	white adder's-mouth orchid	G4Q	S1	

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29	<i>Phippsia algida</i>	icegrass	G5	S2	
30	<i>Potamogeton praelongus</i>	whitestem pondweed	G5	SNR	
31	<i>Ruppia cirrhosa</i>	spiral ditchgrass	G5	SNR	
32	<i>Schizachne purpurascens</i>	false melic, purple oat	G5	SNR	
33	<i>Sisyrinchium pallidum</i>	pale blue-eyed grass	G2G3	S2	
34	<i>Smilax lasioneu ra</i>	Blue Ridge carrionflower	G5	S3S4	
35	<i>Spiranthes diluvialis</i>	Ute ladies'-tresses	G2G3	S2	LT
<b>DICOTS</b>					
1	<i>Aletes humilis</i>	Colorado aletes	G2G3	S2S3	
2	<i>Amorpha nana</i>	dwarf leadplant	G5	S1S2	
3	<i>Apios americana</i>	American groundnut	G5	S1	
4	<i>Aquilegia saximontana</i>	Rocky Mountain blue columbine	G3	S3	
5	<i>Artemisia pattersonii</i>	Patterson's wormwood	G3G4	S1S2	
6	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i> ( <i>Seriphidium vaseyanum</i> )	Mountain sagebrush	G5	SNR	
7	<i>Asclepias stenophylla</i>	narrow-leaved milkweed	G4G5	S2	
8	<i>Astragalus sparsiflorus</i>	Front Range milkvetch	G3?	S3?	
9	<i>Castilleja puberula</i>	shortflower Indian paintbrush, downy indian-paintbrush	G2G3	S2S3	
10	<i>Crataegus chrysocarpa</i>	fireberry, yellow hawthorn	G5	S1	
11	<i>Draba crassa</i>	thickleaf draba	G3	S3	
12	<i>Draba exunguiculata</i>	clawless draba	G2	S2	
13	<i>Draba fladnizensis</i>	Austrian draba, arctic draba	G4	S2S3	
14	<i>Draba grayana</i>	Gray's draba	G2	S2	
15	<i>Draba porsildii</i>	Porsild's draba	G3G4	S1	
16	<i>Draba streptobrachia</i>	alpine tundra draba	G3	S3	
17	<i>Drymaria effusa</i> var. <i>depressa</i>	pinewoods drymary, spreading drymaria	G4T4	S1	
18	<i>Eustoma exaltatum</i> ssp. <i>russellianum</i> ( <i>Eustoma grandiflorum</i> )	showy prairie gentian	G5	S3S4	
19	<i>Gaura neomexicana</i> ssp. <i>coloradensis</i>	Colorado butterfly plant	G3T2	S1	LT
20	<i>Liatrix ligulistylis</i>	Rocky Mountain blazing star, gay-feather	G5?	S1	
21	<i>Machaeranthera coloradoensis</i>	Colorado tansyaster	G3	S3	
22	<i>Mentzelia sinuata</i> ( <i>Nuttallia sinuata</i> ), ( <i>Nuttallia multiflora</i> )	leechleaf blazingstar, wavy-leaf stickleaf	G3	S3	
23	<i>Mimulus gemmiparus</i>	Rocky Mountain monkeyflower, budding monkeyflower	G1	S1	C
24	<i>Packera debilis</i>	weak groundsel	G4	S1	
25	<i>Papaver radicum</i> ssp. <i>kluanense</i> ( <i>P. kluanense</i> , <i>P. lapponicum</i> ssp. <i>occidentale</i> )	rooted poppy, alpine poppy	G5T3T4	S3S4	
26	<i>Parnassia kotzebuei</i>	Kotzebue's grass of parnassus	G5	S2	
27	<i>Pediocactus simpsonii</i>	mountain ball cactus	G4		
28	<i>Penstemon harbourii</i>	Harbour's beardtongue	G3G4	S3S4	
29	<i>Phacelia denticulata</i>	Rocky Moutain phacelia	G3	SNR	
30	<i>Physaria bellii</i>	Bell's twinpod	G2G3	S2S3	
31	<i>Physaria bellii</i> x <i>vitulifera</i>	twinpod hybrid	G1Q	S1	

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32	<i>Potentilla ambigens</i>	silkyleaf cinquefoil	G3	S1S2	
33	<i>Potentilla rupincola</i> ( <i>P. effusa</i> var. <i>rupincola</i> )	rock cinquefoil	G2	S2	
34	<i>Pyrola picta</i>	whiteveined wintergreen, pictureleaf wintergreen	G4G5	S3S4	
35	<i>Ranunculus gelidus</i> ssp. <i>grayi</i> ( <i>R. karelinii</i> )	ice cold buttercup, tundra buttercup	G4G5	S2	
36	<i>Salix candida</i>	sageleaf willow	G5	S2	
37	<i>Salix serissima</i>	autumn willow	G4	S1	
38	<i>Telesonix jamesii</i>	James' telesonix	G2	S2	
39	<i>Thelypodium sagittatum</i>	arrow thelypody	G4	S1	
40	<i>Tonestus lyallii</i>	Lyall's goldenweed	G5	S1?	
41	<i>Utricularia minor</i>	lesser bladderwort	G5	S2	
42	<i>Utricularia ochroleuca</i>	yellowishwhite bladderwort	G4?	S1?	
43	<i>Viola pedatifida</i>	prairie violet	G5	S1	
44	<i>Viola selkirkii</i>	Selkirk's violet	G5?	S1	
<b>SIGNIFICANT NATURAL COMMUNITIES</b>					
1	<i>Abies lasiocarpa</i> Moss Forest	Subalpine Forest	G4	S2?	
2	<i>Achnatherum hymenoides</i> Shale Barren Herbaceous Vegetation	Western Slope Grassland	G2	S2	
3	<i>Alnus incana</i> / <i>Equisetum arvense</i> Shrubland	Montane Riparian Shrubland	G3	S3	
4	<i>Alnus incana</i> / Mesic Forbs Shrubland	Thinleaf Alder/Mesic Forb Riparian Shrubland	G3	S3	
5	<i>Alnus incana</i> / Mesic Graminoids	Montane Riparian Shrubland	G3	S3	
6	<i>Alnus incana</i> - <i>Salix</i> ( <i>monticola</i> , <i>lucida</i> , <i>ligulifolia</i> ) Shrubland	Thinleaf Alder-Mixed Willow Species	G3	S3	
7	<i>Alnus incana</i> - <i>Salix drummondiana</i> Shrubland	Montane Riparian Shrubland	G3	S3	
8	<i>Andropogon gerardii</i> - <i>Schizachyrium scoparium</i> Western Great Plains Herbaceous Vegetation	Xeric Tallgrass Prairie	G2?	S2	
9	<i>Andropogon gerardii</i> - <i>Sorghastrum nutans</i> Western Great Plains Herbaceous Vegetation	Mesic Tallgrass Prairie, Forest Openings	G2	S1S2	
10	<i>Andropogon gerardii</i> - <i>Sporobolus heterolepis</i> Western Foothills Herbaceous Vegetation	Xeric Tallgrass Prairie, Forest Openings	G2	S1S2	
11	<i>Betula occidentalis</i> / <i>Maianthemum stellatum</i> Shrubland	Foothills Riparian Shrubland	G4?	S2	
12	<i>Betula occidentalis</i> / Mesic Graminoids Shrubland	Lower Montane Riparian Shrubland	G3	S2	
13	<i>Bouteloua gracilis</i> - <i>Buchloe dactyloides</i> Herbaceous Vegetation	Shortgrass Prairie	G4	S2?	
14	<i>Bouteloua gracilis</i> - <i>Bouteloua hirsuta</i> Herbaceous Vegetation	Shortgrass Prairie	G3G4	SU	
15	<i>Calamagrostis stricta</i> Herbaceous Vegetation [Provisional]	Slimstem Reedgrass	GU	S1?	
16	<i>Caltha leptosepala</i> / <i>Deschampsia cespitosa</i> Herbaceous Vegetation		G3	S3	
17	<i>Caltha leptosepala</i> / <i>Polygonum bistortoides</i> Herbaceous Vegetation		G2	S?	

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18	<i>Carex aquatilis</i> / <i>Sphagnum</i> spp.	Montane Fen	G2G3	S2?	
19	<i>Carex diandra</i> Wet Meadow Herbaceous Vegetation	Quaking Fen	GNR	SU	
20	<i>Carex lasiocarpa</i> Herbaceous Vegetation	Montane Wetland	G4?	S1	
21	<i>Carex praegracilis</i> Herbaceous Vegetation	Clustered Sedge Wetland	G3G4	S2	
22	<i>Carex rupestris</i> - <i>Trifolium dasyphyllum</i> Herbaceous Vegetation	Alpine Meadows	G3G4	S3S4	
23	<i>Carex saxatilis</i> Herbaceous Vegetation	Wet Meadow	G3	S2	
24	<i>Celtis laevigata</i> var. <i>reticulata</i> / <i>Pseudoroegneria spicata</i> Woodland	Hackberry	G2G3	S1S2	
25	<i>Cercocarpus montanus</i> / <i>Achnatherum scribneri</i> Shrubland	Foothills Shrubland	G3	S3	
26	<i>Cercocarpus montanus</i> / <i>Hesperostipa comata</i> Shrubland	Mixed Foothill Shrublands, Foest Openings	G2	S2	
27	<i>Cercocarpus montanus</i> / <i>Hesperostipa neomexicana</i> Shrubland	Foothills Shrubland	G2G3	S2S3	
28	<i>Cercocarpus montanus</i> - <i>Rhus trilobata</i> / <i>Andropogon gerardii</i> Shrubland	Mountain Mahogany - Skunkbush / Big Bluestem Shrubland	G2G3	S2S3	
29	<i>Corylus cornuta</i> Shrubland [Provisional]	Lower Montane Forests	G3	S1	
30	<i>Danthonia parryi</i> Herbaceous Vegetation	Montane Grasslands, Forest Openings	G3	S3	
31	<i>Deschampsia cespitosa</i> - <i>Phleum alpinum</i> Herbaceous Vegetation	Tufted Hairgrass - Mountain Timothy	G3?	S3?	
32	<i>Distichlis spicata</i> Herbaceous Vegetation	Salt Meadows	G5	S3	
33	<i>Eleocharis quinqueflora</i> Herbaceous Vegetation	Alpine Wetlands	G4	S3S4	
34	<i>Eleocharis rostellata</i> Herbaceous Vegetation	Emergent Wetland	G3	S2	
35	<i>Festuca thurberi</i> Subalpine Grassland Herbaceous Vegetation		G3	S3	
36	<i>Geum rossii</i> - <i>Trifolium</i> ssp. Herbaceous Vegetation	Alpine Meadows	G3	S3	
37	<i>Glyceria grandis</i> Herbaceous Vegetation	American Mannagrass Herbaceous Vegetation	G2?	S2	
38	<i>Hesperostipa comata</i> - <i>Achnatherum hymenoides</i>		G2?	S1	
39	<i>Hesperostipa comata</i> - <i>Bouteloua gracilis</i> Colorado Front Range Herbaceous Vegetation		G1G2	S2	
40	<i>Hesperostipa comata</i> Colorado Front Range Herbaceous Vegetation	Great Plains Mixed Grass Prairie	G1G2	S1S2	
41	<i>Hesperostipa neomexicana</i> Herbaceous Vegetation	Great Plains Mixed Grass Prairie	G3	S3	
42	<i>Juncus parryi</i> / <i>Sibbaldia procumbens</i> Herbaceous Vegetation		G3G4	SNR	
43	<i>Kobresia myosuroides</i> - <i>Carex rupestris</i> var. <i>drummondiana</i> Herbaceous Vegetation	Dry Alpine Meadows	G3	S3?	
44	<i>Muhlenbergia montana</i> Herbaceous Vegetation	Mountain Muhly Herbaceous Vegetation, Forest Openings	G3G4	S2?	
45	<i>Muhlenbergia montana</i> - <i>Danthonia parryi</i> Herbaceous Vegetation	Montane Grasslands	G3G4	S2?	

Boulder County Rare Plant Species and Significant Natural Communities SSC List

No.	State Scientific Name	State Common Name	CNHP Global Rank	CNHP State Rank	Federal Status (ESA)
46	<i>Muhlenbergia montana</i> - <i>Hesperostipa comata</i> Herbaceous Vegetation	Montane Grasslands, Forest Openings	G1G2	S1S2	
47	<i>Pascopyrum smithii</i> - <i>Eleocharis</i> spp. Herbaceous Vegetation	Playa Grassland	G1	S1	
48	( <i>Picea engelmannii</i> ) / <i>Betula nana</i> / <i>Carex aquatilis</i> - <i>Sphagnum angustifolium</i> Woodland	Iron Fen	G2	S2	
49	<i>Picea engelmannii</i> / <i>Trifolium dasyphyllum</i> Forest	Timberline Forests	G2?	S2	
50	<i>Picea pungens</i> / <i>Alnus incana</i> Woodland	Montane Riparian Forests	G3	S3	
51	<i>Picea pungens</i> / <i>Betula occidentalis</i> Woodland	Montane Riparian Woodland	G2	S2	
52	<i>Picea pungens</i> / <i>Linnaea borealis</i> Forest	Mixed Montane Forest	G4	S1	
53	<i>Pinus flexilis</i> / <i>Arctostaphylos uva-ursi</i> Woodland	Lower Montane Woodlands	G4	S2?	
54	<i>Pinus flexilis</i> / <i>Juniperus communis</i> Woodland	Lower Montane Woodlands	G5	S3	
55	<i>Pinus ponderosa</i> / <i>Artemisia tridentata</i> ssp. <i>vaseyana</i> Woodland		GNR	SNR	
56	<i>Pinus ponderosa</i> / <i>Carex inops</i> ssp. <i>heliophila</i> Woodland	Foothills Ponderosa Pine Savannas	G3G4	S2	
57	<i>Pinus ponderosa</i> / <i>Cercocarpus montanus</i> / <i>Andropogon gerardii</i> Wooded Herbaceous Vegetation	Foothills Ponderosa Pine Scrub Woodlands	G2	S2?	
58	<i>Pinus ponderosa</i> / <i>Leucopoa kingii</i> Woodland	Foothills Ponderosa Pine Savannas	G3	S3	
59	<i>Pinus ponderosa</i> / <i>Muhlenbergia montana</i> Woodland	Foothills Ponderosa Pine Savannas	G4G5	S2S3	
60	<i>Pinus ponderosa</i> / <i>Purshia tridentata</i> Woodland	Foothills Ponderosa Pine Scrub Woodlands	G3G5	S3?	
61	<i>Pinus ponderosa</i> / <i>Schizachyrium</i> <i>scoparium</i> Woodland	Ponderosa Pine / Little Bluestem Woodland	G3G4	S1	
62	<i>Populus angustifolia</i> / <i>Alnus incana</i> Woodland	Montane Riparian Forest	G3	S3	
63	<i>Populus angustifolia</i> / <i>Betula occidentalis</i> Woodland	Montane Riparian Forest	G3	S3	
64	<i>Populus angustifolia</i> / <i>Salix irrorata</i> Woodland	Foothills Riparian Woodland	G2	S2	
65	<i>Populus balsamifera</i> Woodland	Montane Riparian Woodland	GU	S2	
66	<i>Populus deltoides</i> - ( <i>Salix amygdaloides</i> ) / <i>Salix</i> ( <i>exigua</i> , <i>interior</i> ) Woodland	Plains Cottonwood Riparian Woodland	G3G4	S3	
67	<i>Populus tremuloides</i> / <i>Acer glabrum</i> Forest	Montane Riparian Forests	G2	S2	
68	<i>Populus tremuloides</i> / <i>Alnus incana</i> Forest	Montane Riparian Forests	G3	S3	
69	<i>Populus tremuloides</i> / <i>Betula occidentalis</i> Forest	Quaking Aspen / Water Birch Forest, Riparian	G3	S2	
70	<i>Populus tremuloides</i> / <i>Calamagrostis</i> <i>canadensis</i> Forest	Aspen / Blue Joint Reed Grass	G3	S3	
71	<i>Populus tremuloides</i> / <i>Corylus cornuta</i> Forest	Montane Riparian Forests	G3	S1	
72	<i>Populus tremuloides</i> / <i>Lonicera involucrata</i> ( <i>L.</i> <i>distigia</i> ) Forest	Montane Riparian Forests	G3	S3	
73	<i>Populus tremuloides</i> / <i>Ribes montigenum</i> Forest	Montane Riparian Forests	G2	S2	
74	<i>Populus tremuloides</i> / <i>Vaccinium myrtillus</i> Forest	Aspen Forests	G3	S3	



Boulder County Rare Plant Species and Significant Natural Communities SSC List

No.	State Scientific Name	State Common Name	CNHP Global Rank	CNHP State Rank	Federal Status (ESA)
75	<i>Potamogeton natans</i> Herbaceous Vegetation	Montane Floating/Submergent Wetland	G5?	S1	
76	<i>Pseudotsuga menziesii</i> / <i>Betula occidentalis</i> Woodland	Montane Riparian Forest	G3?	S3	
77	<i>Pseudotsuga menziesii</i> / <i>Paxistima myrsinites</i> Forest	Lower Montane Forests	G2G3	S2S3	
78	<i>Purshia tridentata</i> / <i>Artemisia frigida</i> / <i>Hesperostipa comata</i> Shrubland	Mixed Foothill Shrublands	G1G2	S1S2	
79	<i>Purshia tridentata</i> / <i>Muhlenbergia montana</i> Shrubland	Mixed Foothill Shrublands	G2	S2	
80	<i>Rhus trilobata</i> Intermittently Flooded Shrubland	Skunkbrush Riparian Shrubland	G2	S2	
81	<i>Salix arctica</i> / <i>Salix nivalus</i> Dwarf Shrubland	Arctic Willow - Net-Veined Willow Shrubland	G2GQ	S2	
82	<i>Salix bebbiana</i> Shrubland	Montane Willow Carrs	G3?	S2	
83	<i>Salix boothii</i> / <i>Calamagrostis canadensis</i> Shrubland	Booth Willow / Canadian Reed Grass Shrubland	G3G4Q	S2	
84	<i>Salix boothii</i> / <i>Carex utriculata</i> Shrubland	Booth's Willow / Beaked Sedge	G4	S3	
85	<i>Salix boothii</i> / <i>Deschampsia caespitosa</i> / <i>Geum rossii</i> Shrubland	Booth's Willow / Harogress [sic]	G4	S3S4	
86	<i>Salix boothii</i> Mesic Forbs Shrubland	Booth's Willow Mesic Forb	G3	S3	
87	<i>Salix boothii</i> Mesic Graminoids Shrubland	Riparian Willow Carr	G3?	S3	
88	<i>Salix brachycarpa</i> / <i>Carex aquatilis</i>	Subalpine Riparian / Wetland Carr	G2G3	S2S3	
89	<i>Salix drummondiana</i> / <i>Calamagrostis canadensis</i> Shrubland	Lower Montane Willow Carrs	G3	S3	
90	<i>Salix geyeriana</i> - <i>Salix monticola</i> / <i>Calamagrostis canadensis</i> Shrubland	Montane Willow Carrs	G3	S3	
91	<i>Salix geyeriana</i> / <i>Calamagrostis canadensis</i> Shrubland	Montane Riparian Willow Carr	G5	S3	
92	<i>Salix geyeriana</i> / <i>Carex aquatilis</i> Shrubland	Montane Willow Carr	G3	S3	
93	<i>Salix monticola</i> / <i>Calamagrostis canadensis</i> Shrubland	Montane Willow Carr	G3	S3	
94	<i>Salix monticola</i> / <i>Carex aquatilis</i> Shrubland	Montane Riparian Willow Carr	G3	S3	
95	<i>Salix monticola</i> / <i>Carex utriculata</i> Shrubland	Montane Riparian Willow Carr	G3	S3	
96	<i>Salix monticola</i> / Mesic Graminoids Shrubland	Montane Riparian Willow Carr	G3	S3	
97	<i>Salix planifolia</i> / <i>Deschampsia caespitosa</i> Shrubland	Subalpine Riparian Willow Carr	G2G3	S2S3	
98	<i>Salix wolfii</i> / Mesic Forbs Shrubland	Subalpine Riparian Willow Carr	G3	S3	
99	<i>Schizachyrium scoparium</i> - <i>Bouteloua curtipendula</i> Western Great Plains Herbaceous Vegetation	Great Plains Mixed Grass Prairies (Sandstone/Gravel Breaks)	G3	S2	
100	<i>Spartina pectinata</i> Western Herbaceous Vegetation	Prairie Slough Grass	G3?	S3	
101	<i>Suaeda calceoliformis</i> Herbaceous Vegetation	Pursh Seepweed	GU	S2	
102	<i>Symphoricarpos occidentalis</i> Shrubland	Western Snowberry Shrubland	G4G5	S3	
<b>UNKNOWN SPECIES</b>					
1	<i>Anagallis minima</i> ( <i>Centunculus minimus</i> )	Chaffweed	G5	S1	
2	<i>Aralia nudicaulis</i>	wild sarsaparilla			
3	<i>Botrychium tunux</i>				

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4	<i>Carex oreocharis</i>	grassyslope sedge	G3	S1	
5	<i>Carex sychnocephala</i>	manyhead sedge	G4	S1	
6	<i>Chrysosplenium tetrandrum</i>	northern golden saxifrage	G5	S1?	
7	<i>Claytonia rubra</i>	redstem springbeauty	G5	S1	
8	<i>Dryopteris filix-mas</i>	male fern			
9	<i>Heteranthera limosa</i>	blue mudplantain	G5	SNR	
10	<i>Juncus filiformis</i>	thread rush	G5	S2?	
11	<i>Lemna minuta</i>	least duckweed	G4	SNR	
12	<i>Lemna trisulca</i>	star duckweed	G5	SNR	
13	<i>Lipocarpa aristulata (Hemicarpha micrantha )</i>	awned halfchaff sedge	G5?	SNR	
14	<i>Listera cordata</i>	heartleaf twayblade	G5	SNR	
15	<i>Menyanthes trifoliata</i>	buckbean	G5	SNR	
16	<i>Mertensia franciscana</i>	Franciscan bluebells	G3G5	SNR	
17	<i>Minuartia stricta (Alsinanthe stricta)</i>	bog stitchwort, rock sandwort	G5	S1	
18	<i>Mirabilis linearis (Oxybaphus decumbens )</i>	narrowleaf four-o'clock	G5	S1	
19	<i>Myosurus apetalus var. montanus</i>	bristly mousetail	G5T3T5	SNR	
20	<i>Oligoneuron album (Solidago ptarmicoides, Unamia alba)</i>	prairie goldenrod	G5	S2S3	
21	<i>Oxytropis parryi</i>	Parry's oxytrope	G5	S1	
22	<i>Packera pseud aurea var. flavula</i>	falsegold groundsel	G5T2T4	SNR	
23	<i>Penstemon gracilis</i>	lilac penstemon	G5	SU	
24	<i>Piperia unalascensis</i>	slender-spire orchid			
25	<i>Potamogeton epihydrus</i>	ribbonleaf pondweed	G5	SNR	
26	<i>Psoralidium argophyllum</i>	silverleaf Indian breadroot, silver-leaf scurf pea	G5	SNR	
27	<i>Ribes americanum</i>	American black current	G5	S2	
28	<i>Rotala ramosior</i>	toothcup	G5	S1	
29	<i>Sagittaria brevirostra</i>	shortbeak arrowhead	G5	S2?	
30	<i>Sidalcea neomexicana</i>	salt spring checker bloom, checker mallow	G4?	SNR	
31	<i>Stuckenia vaginata</i>	sheathed pondweed	G5	SNR	
32	<i>Triodanis leptocarpa</i>	Slim-pod Venus' Looking-glass	G5?	S1	
<b>UNKNOWN COMMUNITIES</b>					
1	<i>Cercocarpus montanus / Elymus lanceolatus ssp. lanceolatus</i> Shrubland	Mahogany/Griffith's Wheatgrass Shrubland	GU	S3	
2	<i>Hesperostipa neomexicana- Hesperostipa spartea</i>				
3	<i>Phippisia algida</i> Herbaceous Vegetation	Alpine Wetlands	GU	SU	
4	<i>Picea pungens / Alnus incana - Corylus cornuta</i>	Foothills Riparian Forest	GU	SU	

**DEFINITIONS**

**Federal Status**

ESA, United States Endangered Species Act

LE, Listed Endangered

LT, Listed Threatened

C, Candidate for listing

Boulder County Rare Plant Species and Significant Natural Communities SSC List

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**Colorado Natural Heritage Program (CNHP)/NatureServe Imperilment Ranks\***

G-Rank: Global Rank, S-Rank: Colorado Rank

G/S1, Critically Imperiled

G/S2, Imperiled

G/S3, Vulnerable to extirpation, typically between 21-100 occurrences.

G/S?, Unranked. Some evidence that species may be imperiled, but awaiting formal rarity ranking.

G/SU, Unrankable due to lack of information or substantially conflicting information.

GQ, Indicates uncertainty about taxonomic status.

G#?, Indicates uncertainty about an assigned global rank.

G#T#, Trinomial rank (T) is used for subspecies or varieties. These species or subspecies are ranked on the same criteria as G1- G5.

SNR, State not ranked. CNHP has not yet looked at this species.

TNR, Not yet ranked globally due to lack of information.

*\*Note: Where two numbers appear in a global or state rank, e.g., S2S3, the actual rank of the element falls between the two numbers. CNHP experts tend to round up to the more conservative number, e.g., if S2S3, consider the species a 'S2' until further information is available (Jill Handwerk, personal communication).*

**United States Forest Service (USFS) Sensitive Status**

Sensitive, Indicates a sensitive species designated by the USFS Rocky Mountain Regional Forester to occur on USFS managed lands within Boulder County.

**National Park Service, Rocky Mountain National Park (NPS, RMNP) Sensitive Status**

Sensitive, Sensitive species appearing on NPS' 'State Endangered, Threatened or Rare Species for Rocky Mountain National Park' list (NPS 2010) or 'Rare and Imperiled Plant Communities' list (NPS 2004) for Rocky Mountain National Park; only those species occurring on the Boulder County portion of the park.

**City of Boulder OSMP Sensitive Status**

Sensitive, Sensitive Plant Species or Community

**Boulder County Parks and Open Space Sensitive**

Sensitive, Appeared as sensitive on prior versions (1978-1999) of the Comprehensive Plan.