

2017

Rare, Endangered, and Threatened Vascular Plants of the Klamath-Siskiyou Region

James P. Smith Jr.
Humboldt State University

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Recommended Citation

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RARE, ENDANGERED, & THREATENED VASCULAR PLANTS OF THE KLAMATH-SISKIYOU REGION

Compiled by
James P. Smith, Jr.
Professor Emeritus of Botany
Department of Biological Science
Humboldt State University
Arcata, California

The Congress has authorized the United States Department of Fish and Wildlife to declare certain plants rare, endangered, or threatened as determined by a set of criteria. The legislatures in California and Oregon have authorized similar declarations. These so-called "listed plants" are shown in Sections 1 to 3.

Other government agencies, such as the Bureau of Land Management and the U. S. Forest Service have also compiled lists of plants of special concern. In addition, various entities, such as the California Native Plant Society and the Oregon Biodiversity Information Center have published their own studies, again based on a set of criteria. Several botanists have also addressed this topic. These efforts are shown in Section 4.

1. FEDERALLY-LISTED PLANTS

Arabis macdonaldiana [E] *
Carex lemmonii [E]
Fritillaria gentneri [E]
Iliamna rivularis [E]
Lilium occidentale [E]
Limnanthes pumila ssp. grandiflora [E]
Lomatium cookii [E]
Noccaea fendleri ssp. californicum [E]
Phlox hirsuta [E]
Plagiobothrys hirsutus [E]

2. STATE-LISTED PLANTS: CALIFORNIA

Arabis macdonaldiana [E]
Bensoniella oregana [R]
Brodiaea coronaria ssp. rosea [E]
Calamagrostis foliosa [R]
Calochortus persistens [R]
Carex lemmonii [E]
Castilleja miniata ssp. miniata [E]
Castilleja pruinosa [R]

Cirsium ciliolatum [E]
Eriogonum alpinum [E]
Lilium occidentale [E]
Lupinus luteolus [T]
Mahonia repens [E]
Panicum acuminatum var. thermale [E]
Phlox hirsuta [E]
Pleuropogon hooverianus [R]
Silene campanulata ssp. campanulata [E]
Trifolium variegatum [R]

3. STATE-LISTED PLANTS: OREGON

Botrychium multifidum [T]
Calochortus coxii [E]
Calochortus howellii [T]
Calochortus indecorus [E]
Calochortus umpquaensis [E]
Eucephalus vialis [T]
Fritillaria gentneri [E]
Hastingsia bracteosa var. bracteosa [T]
Lilium occidentale [E]
Limnanthes pumila ssp. grandiflora [E]
Lomatium cookii [E]
Microseris howellii [T]
Plagiobothrys hirsutus [E]
Plagiobothrys lamprocarpus [E]
Thelypodium howellii var. spectabilis [E]

* E = endangered, R = rare, T = threatened

4. OTHER LISTINGS

LYCOPHYTES

Isoetes howellii
Lycopodiella inundata
Lycopodium clavatum
Selaginella scopulorum

FERNS

Adiantum jordanii
Asplenium septentrionale
Asplenium trichomanes ssp. *trichomanes*
Azolla mexicana
Botrychium crenulatum
Botrychium pinnatum
Botrychium pumicola
Cheilanthes covillei
Cheilanthes intertexta
Equisetum palustre
Marsilea vestita
Ophioglossum pusillum
Pellaea andromedifolia
Pellaea mucronata ssp. *mucronata*
Pilularia americana
Polystichum californicum
Polystichum kruckebergii
Polystichum lemmonii
Polystichum lonchitis

CONIFERS

Cupressaceae

Abies amabilis
Abies lasiocarpa var. *lasiocarpa*

Pinaceae

Picea engelmannii var. *engelmannii*
Pinus albicaulis
Pinus contorta ssp. *bolanderi*
Pinus sabiniana

FLOWERING PLANTS

Alismataceae

Alisma gramineum
Sagittaria sanfordii

Apocynaceae

Asclepias solanoana

Aristolochiaceae

Asarum marmoratum
Asarum wagneri

Berberidaceae

Vancouveria chrysantha
Vancouveria planipetala

Boraginaceae

Amsinckia lunaris
Cryptantha clevelandii var. *dissita*
Cryptantha crinita
Cryptantha excavata

Cryptantha milo-bakeri
Cryptantha simulans
Hackelia amethystina
Hackelia bella
Hackelia cusickii
Hackelia mundula
Mertensia bella
Plagiobothrys austiniae
Plagiobothrys figuratus ssp. *corallicarpus*
Plagiobothrys glyptocarpus
Plagiobothrys greenei
Plagiobothrys lamprocarpus [†]
Plagiobothrys lithocaryus

Cactaceae

Opuntia fragilis

Campanulaceae

Campanula californica
Campanula scabrella
Campanula shetleri
Campanula wilkinsiana
Howellia aquatilis
Legenere limosa
Nemacladus capillaris

Caryophyllaceae

Arenaria paludicola
Minuartia californica
Minuartia decumbens
Minuartia howellii
Minuartia pusilla
Minuartia rosei
Minuartia stolonifera
Silene campanulata ssp. *campanulata*
Silene hookeri ssp. *bolanderi*
Silene hookeri ssp. *pulverulenta*
Silene hookeri ssp. *serpenticola*
Silene lemmonii
Silene marmorensis
Spergularia canadensis var. *occidentalis*
Stellaria littoralis
Stellaria obtusa

Celastraceae

Euonymus occidentalis

Compositae

Ageratina shastensis
Anisocarpus scabridus
Antennaria suffrutescens
Arnica cernua
Arnica spathulata ssp. *spathulata*
Arnica venosa
Arnica viscosa
Balsamorhiza lanata

Balsamorhiza sericea
 Blennosperma nanum var. robustum
 Chaenactis suffrutescens
 Chrysopsis breweri
 Cirsium acanthodontum
 Cirsium ciliolatum
 Ericameria arborescens
 Ericameria ophitidis
 Erigeron biolettii
 Erigeron bloomeri var. nudatus
 Erigeron cervinus
 Erigeron elegantulus
 Erigeron petrophilus var. viscidulus
 Erigeron robustior
 Erigeron stanselliae
 Erigeron supplex
 Eucephalus breweri
 Eucephalus vialis
 Gnaphalium californicum
 Harmonia doris-nilesiae
 Harmonia hallii
 Harmonia stebbinsii
 Hazardia whitneyi ssp. discoideus
 Helianthus bolanderi
 Helianthus exilis
 Hemizonia congesta ssp. calyculata
 Hemizonia congesta ssp. tracyi
 Hesperevax sparsiflora var. brevifolia
 Hieracium bolanderi
 Hieracium greenei
 Hieracium horridum
 Hulsea nana
 Lasthenia burkei
 Lasthenia californica ssp. bakeri
 Lasthenia californica ssp. macrantha
 Lasthenia conjugens
 Lasthenia macrantha ssp. prisca
 Layia carnosa
 Layia septentrionalis
 Micropus amphibolus
 Microseris borealis
 Microseris douglasii ssp. douglasii [+]
 Microseris howellii
 Microseris laciniata ssp. detlingii
 Microseris paludosa
 Packera bolanderi var. bolanderi
 Packera clevelandii
 Packera hesperia
 Packera macounii
 Pyrrocoma racemosa ssp. congesta
 Raillardella pringlei
 Saussurea americana
 Tonestus lyallii
 Wyethia longicaulis

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Convolvulaceae

Calystegia collina ssp. oxyphylla
 Calystegia purpurata ssp. saxicola

Crassulaceae

Sedella leiocarpa
 Sedum divergens
 Sedum laxum var. eastwoodiae
 Sedum laxum var. flavidum
 Sedum laxum ssp. heckneri
 Sedum moranii
 Sedum oblanceolatum
 Sedum obtusatum ssp. retusum
 Sedum paradisum
 Sedum spathulifolium ssp. purdyi

Cruciferae

Arabis aculeolata
 Arabis breweri
 Arabis koehleri var. koehleri
 Arabis koehleri var. stipitata
 Arabis macdonaldiana
 Arabis modesta
 Arabis oregana
 Arabis rigidissima
 Cardamine nuttallii var. gemmata
 Cardamine pachystigma var. dissectifolia
 Cochlearia officinalis var. arctica
 Draba aureola
 Draba carnulosa
 Draba howellii
 Draba pterosperma
 Erysimum menziesii ssp. eurekaense
 Erysimum menziesii ssp. menziesii
 Noccaea fendleri ssp. californica
 Noccaea fendleri ssp. siskiyouensis
 Rorippa columbiae
 Streptanthus barbiger
 Streptanthus brachiatus ssp. hoffmanii
 Streptanthus cordatus var. cordatus
 Streptanthus drepanoides
 Streptanthus glandulosus ssp. josephinensis
 Streptanthus howellii
 Streptanthus morrisonii ssp. elatus
 Streptanthus morrisonii ssp. kruckebergii
 Thelypodium brachycarpum
 Thelypodium sagittatum
 Tropidocarpum capparideum

Cyperaceae

Bulbostylis capillaris
 Carex abrupta
 Carex arcta
 Carex barbarae
 Carex buxbaumii
 Carex californica

Carex capitata
Carex comosa
Carex crawfordii
Carex geyeri
Carex gynodynamis
Carex halliana
Carex hyscina
Carex inops ssp. inops
Carex klamathensis
Carex leptalea
Carex livida A
Carex lyngbyei
Carex nervina
Carex praticola
Carex saliniformis
Carex scabriuscula
Carex serratodens
Carex subbracteata
Carex viridula var. viridula
Carex vulpinoidea
Cyperus acuminatus
Cyperus bipartitus
Eleocharis parvula
Rhynchospora alba
Rhynchospora capitellata
Scirpus pendulus
Schoenoplectus subterminalis

Droseraceae

Drosera anglica

Ericaceae

Arctostaphylos canescens var. sonomensis
Arctostaphylos hispidula
Arctostaphylos klamathensis
Arctostaphylos malloryi
Arctostaphylos manzanita ssp. elegans
Arctostaphylos nummularia ssp. mendocinoensis
Arctostaphylos nortensis
Arctostaphylos stanfordiana ssp. raichei
Empetrum nigrum var. hermaphroditum
Hemitomes congestum
Kalmiopsis leachiana
Leucothoë davisiae
Moneses uniflora
Monotropa uniflora
Pityopus californicus
Pleuricospora fimbriolata
Pyrola dentata
Sarcodes sanguinea
Vaccinium scoparium

Euphorbiaceae

Euphorbia ocellata ssp. rattanii

Gentianaceae

Cicendia quadrangularis
Gentiana bisetacea
Gentiana plurisetosa
Gentiana setigera
Swertia umpquaensis

Geraniaceae

Erodium macrophyllum [+]

Gramineae

Agrostis hendersonii
Anthoxanthum nitens
Calamagrostis bolanderi
Calamagrostis foliosa
Calamagrostis ophitidis
Deschampsia atropurpurea
Festuca elmeri
Glyceria grandis
Melica spectabilis
Muhlenbergia jonesii
Pleuropogon hooverianus
Pleuropogon refractus
Poa bolanderi
Poa piperi
Poa rhizomata
Puccinellia howellii
Puccinellia pumila
Torreyochloa erecta
Tuctoria greenei

Grossulariaceae

Ribes divaricatum var. pubiflorum
Ribes laxiflorum
Ribes marshallii
Ribes roezlii var. amictum
Ribes victoris

Hydrophyllaceae

Howellanthus dalesianus
Nama lobbia
Phacelia corymbosa
Phacelia greenei
Phacelia insularis var. continentis
Phacelia leonis
Phacelia procera
Phacelia verna
Romanzoffia thompsonii
Romanzoffia tracyi

Iridaceae

Iris bracteata
Iris innominata
Iris tenax ssp. klamathensis
Sisyrinchium hitchcockii

Juncaceae

Juncus dudleyi
 Juncus kelloggii
 Juncus leiospermus var. leiospermus
 Juncus regelii
 Juncus supiniiformis

Labiatae

Lycopus uniflorus
 Monardella purpurea
 Monardella villosa ssp. globosa
 Monardella viridis ssp. viridis
 Salvia dorrii var. incana
 Scutellaria galericulata

Leguminosae

Astragalus breweri
 Astragalus californicus
 Astragalus clevelandii
 Astragalus gambellianus
 Astragalus inversus
 Astragalus pauperculus
 Astragalus pycnostachyus var. pycnostachyus
 Astragalus rattanii var. jepsonianus
 Astragalus rattanii var. rattanii
 Astragalus umbraticus
 Lathyrus biflorus
 Lathyrus delnorticus
 Lathyrus glandulosus
 Lathyrus japonicus
 Lathyrus palustris var. palustris
 Lotus stipularis
 Lotus yollabolliensis
 Lupinus antoninus
 Lupinus breweri var. breweri
 Lupinus croceus var. pilosellus
 Lupinus elmeri var. elmeri
 Lupinus lapidicola
 Lupinus lepidus var. constancei
 Lupinus lepidus var. ashlandensis
 Lupinus oregonus
 Lupinus sericatus
 Lupinus tracyi
 Sophora leachiana
 Thermopsis gracilis
 Thermopsis robusta
 Trifolium amoenum
 Trifolium howellii

Lemnaceae

Wolffia columbiana

Lentibulariaceae

Pinguicula vulgaris ssp. macroceras
 Utricularia minor

Liliaceae

Allium bolanderi var. bolanderi
 Allium fimbriatum var. purdyi
 Allium hoffmanii
 Allium peninsulare
 Allium sanbornii var. sanbornii
 Allium siskiyouense
 Brodiaea californica
 Brodiaea coronaria ssp. rosea
 Calochortus coxii
 Calochortus greenei
 Calochortus howellii
 Calochortus indecorus [+]
 Calochortus longebarbatus var. longebarbatus
 Calochortus monanthus
 Calochortus monophyllus
 Calochortus nitidus
 Calochortus nudus
 Calochortus persistens
 Calochortus umpquaensis
 Camassia howellii
 Chlorogalum angustifolium
 Chlorogalum pomeridianum var. minus
 Clintonia andrewsianum
 Dichelostemma ida-maia
 Erythronium citrinum var. citrinum
 Erythronium citrinum var. roderickii
 Erythronium helenae
 Erythronium hendersonii
 Erythronium howellii
 Erythronium klamathense
 Erythronium oregonum
 Erythronium revolutum
 Fritillaria adamantina
 Fritillaria agrestis
 Fritillaria eastwoodiae
 Fritillaria gentneri
 Fritillaria falcata
 Fritillaria glauca
 Fritillaria pluriflora
 Fritillaria purdyi
 Fritillaria recurva
 Hastingsia bracteosa var. atropurpurea
 Hastingsia bracteosa var. bracteosa
 Lilium bolanderi
 Lilium kelloggii
 Lilium maritimum
 Lilium occidentale
 Lilium pardalinum ssp. vollmeri
 Lilium pardalinum ssp. wigginsii
 Lilium parvum
 Lilium rubescens
 Lilium vollmeri
 Lilium washingtonianum ssp. purpurascens
 Lilium wigginsii
 Prosartes parvifolia

Trillium kurabayashii
Trillium ovatum ssp. oettingeri
Triteleia crocea var. crocea
Triteleia hendersonii var. leachiae
Triteleia hendersonii var. hendersonii
Triteleia ixioides ssp. anilina
Triteleia ixioides ssp. scabra
Triteleia laxa
Veratrum fimbriatum
Veratrum insolitum
Zigadenus fontanus

Limnanthaceae

Limnanthes alba ssp. gracilis
Limnanthes bakeri
Limnanthes floccosa ssp. bellingiana
Limnanthes floccosa ssp. floccosa
Limnanthes floccosa ssp. grandiflora
Limnanthes floccosa ssp. pumila
Limnanthes gracilis var. gracilis

Linaceae

Sclerolinon digynum

Malvaceae

Iliamna bakeri
Iliamna latibracteata
Sidalcea calycosa ssp. rhizomata
Sidalcea cusickii
Sidalcea hickmanii
Sidalcea malachroides
Sidalcea malvaeflora ssp. elegans
Sidalcea malvaeflora ssp. patula
Sidalcea malvaeflora ssp. purpurea
Sidalcea oregana ssp. eximia
Sidalcea oregana ssp. hydrophila
Sidalcea setosa ssp. querceta
Sidalcea setosa ssp. setosa

Onagraceae

Camissonia graciliflora
Camissonia ovata
Clarkia amoena ssp. whitneyi
Clarkia borealis ssp. borealis
Clarkia gracilis ssp. tracyi
Clarkia heterandra
Epilobium canum ssp. latifolium
Epilobium luteum
Epilobium nivium
Epilobium oreganum
Epilobium rigidum
Epilobium septentrionale
Epilobium siskiyouense
Oenothera wolfii

Orchidaceae

Calypso bulbosa
Corallorhiza wisteriana
Cypripedium californicum
Cypripedium fasciculatum
Cypripedium montanum
Euburophyton austiniae
Listera cordata
Piperia candida
Piperia elongata
Piperia michaelii
Platanthera stricta

Oxalidaceae

Oxalis suksdorfii

Papaveraceae

Dicentra formosa ssp. oregana
Dicentra pauciflora
Eschscholzia caespitosa
Eschscholzia hypocoides
Meconella oregana

Polemoniaceae

Collomia diversifolia
Collomia larsenii
Collomia mazama
Collomia tracyi
Eriastrum brandegeae
Gilia capitata ssp. pacifica
Gilia millefoliata
Leptosiphon acicularis
Leptosiphon latisectus
Leptosiphon nuttallii ssp. howellii
Leptosiphon rattanii
Navarretia cotulifolia
Navarretia heterandra
Navarretia jepsonii
Navarretia leucocephala ssp. bakeri
Navarretia leucocephala ssp. leucocephala
Navarretia leucocephala ssp. pauciflora
Navarretia leucocephala ssp. pleiantha
Navarretia sinistra ssp. pinnatisecta
Navarretia sinistra ssp. sinistra
Navarretia subuligera
Phlox hirsuta
Phlox muscoides
Polemonium chartaceum

Polygonaceae

Chorizanthe howellii
Eriogonum alpinum
Eriogonum congdonii
Eriogonum diclinum
Eriogonum hirtellum
Eriogonum kelloggii

Eriogonum libertini
Eriogonum lobbii
Eriogonum luteolum var. caninum
Eriogonum nervulosum
Eriogonum pendulum
Eriogonum siskiyouense
Eriogonum strictum var. greenei
Eriogonum ternatum
Eriogonum tripodum
Eriogonum umbellatum var. bahiiforme
Eriogonum umbellatum var. istratum
Polygonum bidwelliae

Portulacaceae

Calandrinia breweri
Cistanthe quadripetala
Claytonia palustris
Claytonia umbellata
Lewisia cantelovii
Lewisia cotyledon var. heckneri
Lewisia cotyledon var. howellii
Lewisia leana
Lewisia oppositifolia
Lewisia stebbinsii
Montia howellii

Potamogetonaceae

Potamogeton foliosus var. fibrillosus
Potamogeton robbinsii
Potamogeton zosteriformis

Primulaceae

Androsace elongata ssp. acuta
Androsace filiformis
Trientalis europaea ssp. arctica

Ranunculaceae

Delphinium uliginosum
Delphinium nudicaule
Delphinium nuttallii
Enemion occidentale
Enemion stipitatum
Ranunculus austro-oreganus
Ranunculus lobbii

Rhamnaceae

Ceanothus confusus
Ceanothus foliosus var. vineatus
Ceanothus gloriosus var. exaltatus
Ceanothus gloriosus var. gloriosus
Rhamnus ilicifolia

Rosaceae

Agrimonia gyrosepala
Cimicifuga elata var. alpestris
Cimicifuga elata var. elata

Geum aleppicum
Horkelia bolanderi
Horkelia congesta ssp. congesta
Horkelia congesta ssp. nemorosa
Horkelia daucifolia
Horkelia hendersonii
Horkelia marinensis
Horkelia sericata
Horkelia tenuiloba
Horkelia tridentata ssp. tridentata
Ivesia longibracteata
Ivesia pickeringii
Neviusia cliftonii
Potentilla cristae
Potentilla glandulosa ssp. globosa
Rosa gymnocarpa var. serpentina
Rubus nivalis
Sanguisorba officinalis

Rubiaceae

Galium californicum ssp. californicum
Galium oreganum
Galium serpenticum ssp. scotticum

Salicaceae

Salix delnortensis
Salix laevigata

Sarraceniaceae

Darlingtonia californica

Saxifragaceae

Bensoniella oregana
Heuchera merriamii
Mitella caulescens
Saxifraga caespitosa
Saxifraga howellii
Saxifraga nuttallii
Saxifraga rufidula
Saxifragopsis fragarioides
Tiarella trifoliata var. trifoliata

Scrophulariaceae

Antirrhinum vexillo-calyculata
Boschniakia hookeri
Castilleja affinis ssp. litoralis
Castilleja ambigua ssp. humboldtiensis
Castilleja hispida ssp. brevilobata
Castilleja mendocinensis
Castilleja miniata ssp. elata
Castilleja schizotricha
Collinsia corymbosa
Cordylanthus maritimus ssp. palustris
Cordylanthus tenuis ssp. pallescens
Gratiola heterosepala
Keckiella lemmonii

Mimulus bolanderi
Mimulus congdonii
Mimulus douglasii
Mimulus glaucescens
Mimulus jepsonii
Mimulus kelloggii
Mimulus nudatus
Mimulus pygmaeus
Orobanche valida ssp. *howellii*
Orthocarpus cuspidatus ssp. *cuspidatus*
Orthocarpus pachystachyus
Pedicularis bracteosa var. *flavida*
Pedicularis contorta
Pedicularis densiflora
Pedicularis howellii
Penstemon cinicola
Penstemon filiformis
Penstemon heterodoxus var. *shastensis*
Penstemon newberryi ssp. *sonomensis*
Penstemon peckii
Penstemon tracyi
Veronica copelandii

Smilacaceae

Smilax californica
Smilax jamesii

Solanaceae

Solanum parishii

Umbelliferae

Angelica lucida
Eryngium constancei
Glehnia littoralis ssp. *leiocarpa*
Lomatium cookii
Lomatium engelmannii
Lomatium hooveri
Lomatium howellii
Lomatium martindalei
Lomatium peckianum
Lomatium repostum
Lomatium tracyi
Perideridia erythrorhiza
Perideridia gairdneri ssp. *gairdneri*
Perideridia leptocarpa
Sanicula peckiana
Sanicula tracyi
Tauschia glauca
Tauschia howellii

Viburnaceae

Viburnum ellipticum

Violaceae

Viola douglasii
Viola hallii

Viola howellii
Viola langsдорфii
Viola ocellata
Viola palustris
Viola praemorsa ssp. *praemorse*
Viola primulifolia ssp. *occidentalis*

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Some names changed to conform to Smith & Sawyer checklist.

Revised: 25 June 2014