

# FLORA BUTTENSIS

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CONTRIBUTIONS TO THE FLORA OF BUTTE COUNTY, CALIFORNIA

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"SUPPLEMENT TO THE BUTTE COUNTY CHECKLIST"

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## ADDITIONS

### ASTERACEAE

- (10) +Centaurea calcipitra L. - Purple Star Thistle.
- (12) Haplopappus arborescens (Gray) Hall - Golden Fleece.
- (15) +Scliva sessilis R. & P. - Common Soliva.
- (16) Stephanomeria tenuifolia (Torr.) Hall - Narrow-leaved Stephanomeria.

### BORAGINACEAE

- (18) Plagiobothrys leptocladus (Greene) Jtn. - Smooth-stemmed Popcorn Flower.

### BRASSICACEAE

- (19) Arabis holboelii var. pinetorum (Tides.) Roll. - Arch Pod Rock Cress.
- (19) +Brassica kaber var. pinnatifida (Stokes) Wheeler - Field Charlock or Mustard.  
(replaces bar. kaber).
- (20) +Lepidium virginicum var. pubescens (Greene) Thell. -  
(in addition to var. virginicum).
- (20) Rorippa islandica var. occidentalis (Wats.) Butters & Abbe - Marsh Cress,  
Marsh Yellow Cress.

### CAMpanulaceae

- (21) Downingia insignis Greene - Cupped Downingia.
- (21) Githopsis pulchella ssp. campestris Morin, ined. - Large-flower Blue Cup.  
(probably replaces ssp. pulchella).

### CARYOPHYLLACEAE

- (22) Arenaria macrophylla Hook. - Large-leaved Sandwort.

### CONVOLVULACEAE

- (25) Calystegia atriplicifolia forma butteensis Brummit - Butte Morning Glory.  
(replaces C. atriplicifolia in Butte County).

### CRASSULACEAE

- (25) Sedum albomarginatum Clausen -

### CUSCUTACEAE

- (26) Cuscuta californica var. papillosa Yuncker - Papilloose CA Dodder.

### ERICACEAE

- (26) Arctostaphylos manzanita ssp. roofigi (Gankin) P.V. Wells - Roof's Manzanita.  
(A. roofigi Gankin).
- (27) Arctostaphylos truei Knight - True's Manzanita.

### FABACEAE

- (25) Lathyrus nevadensis ssp. lanceolatus (Howell) C.L. Hitchc. - Lance-leaved Pea
- (29) Lupinus albicaulis Dougl. ex Hook. - Sickle-keeled Lupine.
- (29) Lupinus albicaulis var. shastensis (Heller) C.P. Sm. - Shasta Lupine.

## FABACEAE, cont.

- (29) Lupinus arbustus ssp. silivicola (Heller) D. Dunn -  
 (30) Lupinus sellulus var. artulus (Jeps.) Eastw. - Arid Soil Lupine.  
 (30) +Pisum sativum L. - Garden Pea.  
 (31) Trifolium bifidum A. Gray - Notch-leaved or Pinole Clover.  
 (31) Trifolium longipes ssp. hansenii (Greene) J.M. Gillett - Hanson's Clover.  
     (replaces T. longices).  
 (31) Trifolium monanthum ssp. parvum (Kell.) J.M. Gillett -  
     (in addition to ssp. monanthum).  
 (31) Trifolium oliganthum Steud. - Few-flowered Clover.  
 (31) Trifolium productum Greene - Shasta Clover.

## LAMIACEAE

- (35) +Glechoma hederacea L. - Ground Ivy. (Glecoma is an incorrect spelling).

## LINNANTHACEAE

- (37) Limnanthes douglasii var. nivea C.T. Mason -

## LYTHRACEAE

- (38) Lythrum adsurgens Greene - Wallow Poly.

## POLEMONIACEAE

- (45) Polemonium pulcherrimum Hook. - Showy Polemonium.

## POLYGONACEAE

- (46) Polygonum hydropiperoides var. asperifolium Stanf. - Mild Water Pepper.  
 (47) +Rumex angiocarpus Murbeck -

## PORTULACACEAE

- (48) Montia chamissoi (Ledeb.) Dur. & Jacks - Toad Lily.

## PRIMULACEAE

- (48) Dodecatheon alpinum ssp. majus H.J. Thompson -  
     (in addition to ssp. alpinum).

## PYROLACEAE

- (49) Pyrola californica Krisa - Bog Wintergreen. (P. asarifolia var. purpurea (Bunge) Fern).

## RANUNCULACEAE

- (50) Delphinium variegatum ssp. apiculatum (Greene) Ewan - Small-flowered Royal Larkspur.

## RHAMNACEAE

- (51) Rhamnus purshianus DC. - Cascara Sagrada.

## ROSACEAE

- (52) Potentilla glandulosa ssp. nevadensis (Wats.) Keck - Mt. Cinquefoil.  
       (in addition to ssp. glandulosa).  
 (53) Rubus glaucifolius Kell. - White-leaved Raspberry.

## SALICACEAE

- (55) Salix geyeriana var. argentea (Bebb.) C.K. Schneid - Geyer or Silver Willow.

## SAXIFRAGACEAE

- (57) Saxifraga fallax Greene - Greene's Saxifrage.

## SCROPHULARIACEAE

- (57) Collinsia parviflora Dougl. in Lindl. - Small-flowered Blue-eyed Mary.  
 (58) +Digitalis purpurea L. - Purple Foxglove.

## STYRACACEAE

- (62) Styrax officinale ssp. fulvescens (Eastw.) Beauchamp - Tawny Storax.  
       (S. officinalis var. fulvescens (Eastw.) M. & J.). (in addition to  
       ssp. redivivum).

## CYPERACEAE

- (66) Carex sp. (see Nomenclature changes).  
 (67) Carex brainerdii Mkze. - Brainerd's Sedge.  
 (67) Carex vernacula Bailey - Vernacular or Native Sedge.  
 (68) +Cyperus flavescens L. -  
 (68) Cyperus virens Michx. - CA Tall Cyperus.  
 (68) +Eleocharis pachycarpa Desv. - Chile Spikerush.  
 (68) Eleocharis rostellata (Torr.) Torr. - Beaked Spikerush.  
 (68) Hemicarpha micrantha var. aristulata Cov. - Awned Hemicarpha.  
 (68) Scirpus cernuus var. californicus (Torr.) Beetle - Low Club-Rush.  
 (68) Scirpus koilolepis (Steud.) Gleason - Keeled Club-Rush.

## JUNCACEAE

- (69) Juncus sp. - (see Nomenclature changes).  
 (70) Juncus bufonius var. congondii (Wats.) J.T. Howell - Smooth-seeded Rush,  
       Congdon's Rush. (in addition to vars. bufonius and congestus).  
 (70) Juncus dubius Engelm. - Mariposa Rush.  
 (70) Juncus hemiendytus F.J. Herm. -  
 (70) Juncus tenuis var. congestus Engelm. -

## LEMNACEAE

- (71) Lemna trisulca L. - Ivy-leaved Duckweed.

## LILIACEAE

- (71) Calochortus nudus ssp. shastensis Jeps. - Shasta Star Tulip.  
(in addition to C. nudus).  
(71) Erythronium clintonii Hemphill, ined. - Feather River Fawn-Lily.  
(replaces E. sp. in Butte Checklist).

## POACEAE

- (74) +Anthoxanthum odoratum L. - Sweet Vernal Grass.  
(75) +Avena fatua var. glabrata Peterm. -  
(78) +Eragrostis ciliaris (All.) E. Moser - Stink-grass, Candy-grass.  
(E. megastachya (Koel.) Link.).  
(81) Stipa cernua Stev. & Love -

## PONTEDERIACEAE

- (82) +Heteranthera dubia (Jacq.) Macm. - Water-Star Grass.

DELETIONS

ASTERACEAE

- (10) Brickellia grandiflora
- (11) Erigeron miser
- (13) Layia gallarioides
- (15) Senecio eurycephalus (replaced by var. lewisrosei).

BRASSICACEAE

- (19) Brassica kaber (replaced by var. pinnatifida).
- (19) Dentaria pachystigma (var. dissectifolia ok).

CALLITRICHACEAE

- (20) Callitricha hermaphrodica

CONVOLVULACEAE

- (25) Calystegia atriplicifolia (replaced by forma butensis).

CRASSULACEAE

- (25) Sedum laxum ssp. perplexum

FABACEAE

- (28) Cytisus scoparius
- (28) Lathyrus pauciflorus ssp. brownii
- (29) Lupinus caudatus
- (31) Trifolium longipes (replaced by ssp. hansenii)

GENTIANACEAE

- (33) Centaurium trichanthum

IAMIACEAE

- (35) Lycopus lucidus

LIMNANTHACEAE

- (37) Limnanthes floccosa (replaced by var. californicus).

MALVACEAE

- (38) Lavatera cretica

ONAGRACEAE

- (40) Camissonia campestris
- (40) Clarkia cylindrica
- (40) Clarkia xantiana

## POLYGONACEAE

(47) Rumex triangulivalvis (replaced by var. oreolapathum)

## PRIMULACEAE

(48) Dodecatheon hansenii

## RANUNCULACEAE

(50) Delphinium menziesii

## RUBIACEAE

(54) Galium glabrescens(54) Galium multiflorum

## SALICACEAE

(55) Salix tracyi

## SAXIFRAGACEAE

(57) Saxifraga punctata ssp. argenta

## SCROPHULARIACEAE

(57) Bacopa eisenii

## SOLANACEAE

(61) Solanum douglasii

## AMARYLLIDACEAE

(65) Allium tribracteatum

## POACEAE

(78) Elymus canadensis

## NOMENCLATURE CHANGES

### CAMpanulaceae

Githopsis pulchella ssp. campestris Morin, ined.  
NEW SUBSPECIES.  
Morin, N., in press.

### Caryophyllaceae

Silene pratensis (Rafn.) Godron & Gren.  
(Lychnis alba Mill.).  
McNeill, J. & H.C. Prentice 1981: 29.

### Convolvulaceae

Calystegia atriplicifolia forma buttensis Brummit  
NEW FORMA. (Split from C. atriplicifolia).  
Brummit, R.K. 1980: 327.

### Crassulaceae

Sedum albomarginatum Clausen  
NEW SPECIES.  
Clausen, R. 1975: 432.

Sedum spathulifolium ssp. purdyi (Jeps.) Clausen  
(S. spathulifolium Hook. & S. purdyi Jeps. combined here).  
Clausen, R. 1975: 451-452.

### Ericaceae

Arctostaphylos manzanita ssp. roofigi (Gankin) P.V. Wells  
NEW SUBSPECIES. (A. roofigi Gankin).  
Edwards, S.W. 1980: 8.  
Gankin, R. 1966: 330.  
Smith, J.P., et al (eds.) 1980: 81, 85.

Arctostaphylos truei Knight  
NEW SPECIES.  
Knight, W. 1969: 20.

### Fabaceae

Lotus stipularis var. ottleyi Isely  
NEW VARIETY. (Split from L. stipularis).  
Isely, D. 1978: 468-469.

Trifolium longipes ssp. hansenii (Greene) J.M. Gillett  
NEW SUBSPECIES. (Split from T. longipes which is now not in California).  
Gillett, J.M. 1969: 109.

## FABACEAE, cont.

Trifolium monanthum ssp. parvum (Kell.) J.M. Gillett  
 (T. monanthum var. parvum (Kell.) McDerm.).  
 Gillett, J.M. 1980: 1435.

## PYROLADACEAE

Pyrola californica Krisa  
 (P. asarifolia var. purpurea (Bunge) Fern).  
 Munz, P.A. 1968: 82.  
 Krisa, B. 1966: 612-637.

## SCROPHULARIACEAE

Diplacus grandiflorus (Lindl.) J. Gronl.  
 (Mimulus bifidus Penn.).  
 McMinn, H. 1951: 65.

## STYRACACEAE

Styrax officinale ssp. fulvescens (Eastw.) Beauchamp  
 (S. officinale var. fulvescens (Eastw.) M. & J.).  
 Thorne, R. 1978: 194.  
 Gonsoulin, G. 1974: 218.

## CYPERACEAE

Carex sp.  
 UNDESCRIBED SPECIES.  
 Howell, J.T. 1980: pers. comm.: says this is "near Carex mendocinensis Olney."  
 Found in the Forbestown area.

Cyperus flavescens L.  
 NEW INTRODUCTION.

Howell, J.T. & L. Ahart 1980: pers. comm. Found on Hwy 70 near Arch Rock Tunnel.

## HYDROCHARITACEAE

Ottelia alismoides (L.) Pers.  
 NEW INTRODUCTION.  
 Turner, C.E. 1980: 177.

## LILIACEAE

Brythronium cliftonii Hemphill, ined.  
 UNDESCRIBED SPECIES.  
 Smith, J.P. 1981: pers. comm. A serpentine plant restricted to the Feather River drainage. CNPS considers this rare and endangered.

Calochortus nudus ssp. shastensis Jeps.  
 (Split from C. nudus).  
 Smith, J.P. et al (eds.) 1980: 47.

## JUNCACEAE

Juncus sp.

UNDESCRIBED SPECIES.

Ahart, L. 1961: pers. comm. Known only from the Peter Ahart Ranch, Honcut.

Juncus bufonius var. congdonii (Wats.) J.T. HowellNEW VARIETY. (Split from J. bufonius var. congestus).

Howell, J.T. 1963: 28.

## POACEAE

Avena fatua var. glabrata Peterm.NEW VARIETY. (Split from A. fatua).

Abrams, L. 1923, 1940: vol. 1, pg. 171.

Cronquist, A. et al. 1977: vol. 6, pg 262 (suggests the possibility that it is a hybrid).

Eragrostis cilianensis (All.) E. Mosher

(E. megastachya (Koel.) Link).

Cronquist, A. et al, 1977: vol. 6, pg. 400.

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Clausen, Robert T. 1975. Sedum of North America north of the Mexican Plateau. Cornell University Press, Ithaca, NY. 742p

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Edwards, Stephen W. 1980. California manzanitas in the Regional Parks Botanic Garden. Four Seasons 6(2): 6-10.

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Gillett, J.M. 1969. Taxonomy of Trifolium (Leguminosae) II. Trifolium longipes complex in North America. Canad. J. Botany 47: 93-113.

\_\_\_\_\_. 1980. Taxonomy of Trifolium L. (Leguminosae). V. The perennial species of section Involucratum Hooker. Canad. J. Botany 58: 1425-1443.

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PRELIMINARY CHECKLIST OF THE FLORA OF HUMBOLDT PEAK, BUTTE COUNTY, CALIFORNIA

Compiled by: M.S. Taylor, J.D. Jokerst & R. Schlising

ACERACEAE

Acer glabrum var. torreyi

AMARYLLIDACEAE

Allium campanulatum  
Allium platycaule

APIACEAE

Angelica breweri  
Cymopterus terebinthina var.  
                          californica

ASTERACEAE

Chaenactis douglasii  
Chrysopsis breweri  
Chrysothamnus nauseosus var.  
                          albicaulis  
Eupatorium occidentale  
Senecio aronicoides  
Wyethia angustifolia  
Wyethia mollis

BORAGINACEAE

Hackelia californica  
Hackelia nervosa

BRASSICACEAE

Arabis breweri (var.  
                          microphylla, ined.)  
Arabis platsperme  
Erysimum capitatum

CAPRIFOLIACEAE

Symphoricarpos acutus

CARYOPHYLLACEAE

Silene douglasii

CYPERACEAE

Carex sp.

ERICACEAE

Arctostaphylos nevadensis

EUPHORBIACEAE

Euphorbia serpyllifolia var.  
                          hirtula

FABACEAE

Lupinus arbustus ssp. silvicola

FAGACEAE

Chrysolepis sempervirens  
Quercus vaccinifolia

JUNCACEAE

Juncus drummondii  
Juncus howellii  
Juncus nevadensis  
Juncus parryi

LAMIACEAE

Monardella odoratissima var. pallida

LILIACEAE

Calochortus leichtlinii  
Lilium washingtonianum  
Smilacina racemosa

ONAGRACEAE

Epilobium angustifolium ssp. circumvagum  
Epilobium obcordatum  
Gayophytum heterozygum  
Gayophytum humile

PINACEAE

Abies magnifica  
Pinus jeffreyi

POACEAE

Agropyron pringlei  
Bromus marginatus  
Melica fugax  
Muhlenbergia filiformis  
Poa bolanderi  
Poa nervosa  
Poa pringlei  
Sitanion hystrix var. breviflorum  
Stipa nevadensis  
Stipa occidentalis  
Trisetum spicatum

POLEMONIACEAE

Leptodactylon pungens ssp. pulchriflorum  
Phlox diffusa  
Polemonium pulcherrimum

## POLYGONACEAE

Eriogonum ursinum  
Polygonum davisiae

## POLYPODIACEAE

Cryptogramma crispa var. acrostichoides  
Cystopteris fragilis  
Polystichum scopulinum  
Woodsia scopulina

## PORTULACACEAE

Calyptridium umbellatum

## PYROLEACEAE

Pyrola picta  
Pyrola picta ssp. integrata

## RANUNCULACEAE

Aquilegia formosa var. truncata

## RHAMNACEAE

Ceanothus velutinus

## ROSACEAE

Holodiscus microphyllus var. glabrescens  
Sibbaldia procumbens  
Spiraea densiflora

## RUBIACEAE

Galium bifolium  
Galium grayanum (TYPE LOCALITY)

## SCROPHULARIACEAE

Castilleja affinis  
Castilleja applegatei  
Penstemon deustus  
Penstemon gracilentus  
Penstemon laetus  
Penstemon newberryi

## VIOLACEAE

Viola purpurea var. venosa

PRELIMINARY CHECKLIST OF THE FLORA OF BIG BALD ROCK, BUTTE COUNTY, CALIFORNIA  
Compiled by M.S. Taylor, J.D. Jokerst & R. Schlising

AMARYLLIDACEAE

Allium amplectens  
Allium obtusum  
Triteleia hyacinthina

ASTERACEAE

Filago californica  
Filago gallica  
Hypochaeris glabra  
Madia minima  
Madia rammii

BRASSICACEAE

Streptanthus tortuosus

CAMPANULACEAE

Heterocodon rariflorum

CARYOPHYLLACEAE

Minuartia douglasii

CRASSULACEAE

Sedum spathulifolium ssp. purdyi

CUPRESSACEAE

Calocedrus decurrens

CYPERACEAE

Fimbristylis capillaris

ERICACEAE

Arbutus menziesii  
Arctostaphylos viscida

FABACEAE

Lotus argophyllus var. fremontii  
Lupinus nanus var. vallicola  
Lupinus stiversii

FAGACEAE

Quercus chrysolepis

GENTIANACEAE

Centaurium venustum ssp. abramsii

ISOETACEAE

Isoetes nuttallii

JUNCACEAE

Juncus bufonius  
Juncus tenuis  
Juncus triformis  
Luzula subsessilis

LAURACEAE

Umbellularia californica

ONAGRACEAE

Epilobium minutum

PINACEAE

Pinus jeffreyi  
Pinus lambertiana  
Pinus ponderosa  
Pseudotsuga menziesii

POACEAE

Aira caryophyllea  
Agrostis microphylla var. hendersonii  
Bromus rubens  
Dichanthelium acuminatum  
Gastridium ventricosum  
Vulpia microstachys var. pauciflora  
Vulpia myuros var. hirsuta

POLEMONIACEAE

Linanthus filipes

POLYPODIACEAE

Cheilanthes gracillima  
Cheilanthes siliquosa  
Cystopteris fragilis  
Pellaea mucronata  
Pityrogramma triangularis var. semipallida  
Polystichum imbricans

PORTULACACEAE

Lewisia triphylla

SAXIFRAGACEAE

Heuchera micrantha var. erubescens

## SCROPHULARIACEAE

- Diplacus grandiflorus
- Mimulus laciniatus
- Mimulus layneae
- Mimulus torreyi
- Penstemon newberryi

## SELAGINELLACEAE

- Selaginella hansenii
- Selaginella wallacei

## STYRACACEAE

- Styrax officinale ssp. redivivum

## VISCACEAE

- Arceuthobium americanum

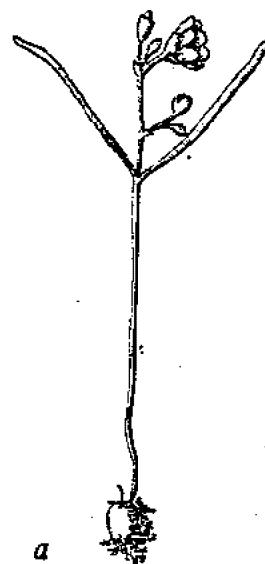
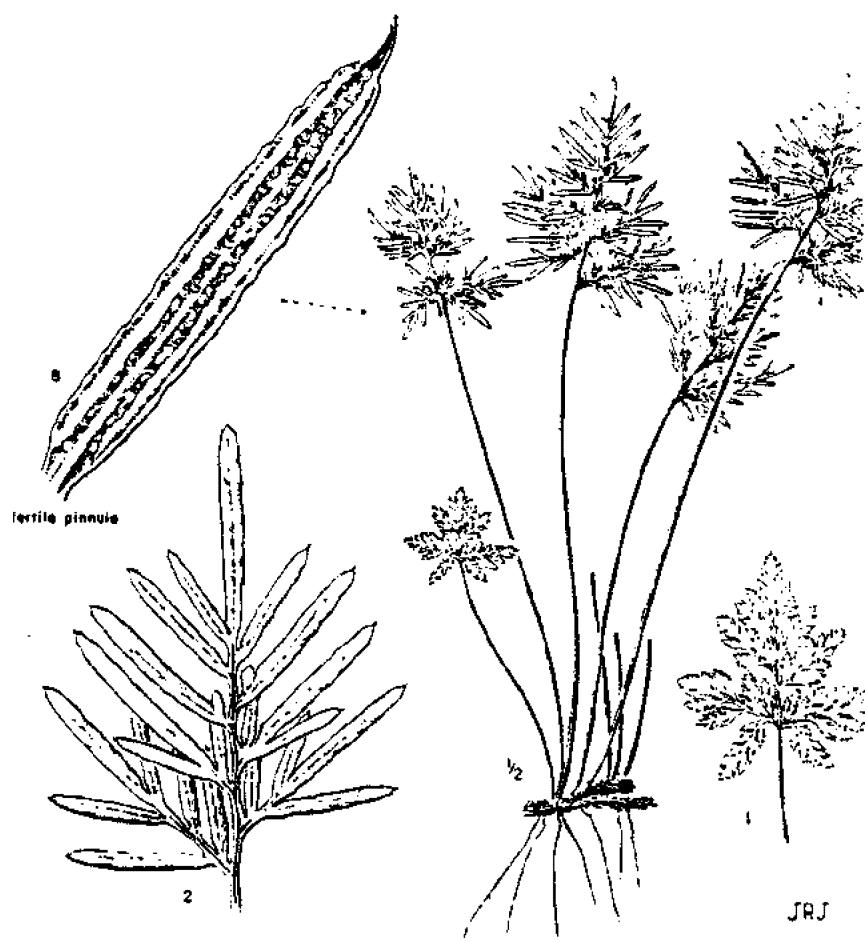


Fig. 95. a. LEWISIA TRIPHYLLA Rob.



Chionanthus spicatus

PRELIMINARY CHECKLIST OF THE FLORA OF LITTLE BALD ROCK, BUTTE COUNTY, CALIFORNIA  
Compiled by: M.S. Taylor, J.D. Jokerst & R. Schlising

AMARYLLIDACEAE

Allium obtusum  
Dichelostemma congestum  
Dichelostemma pulchellum  
Triteleia hyacinthina  
Triteleia ixiooides ssp. unifolia

ASTERACEAE

Madia exigua  
Madia minima  
Madia rammii  
Microseris lindleyi

BRASSICACEAE

Streptanthus tortuosus

CAMPANULACEAE

Heterocodon rariflorum

CARYOPHYLLACEAE

Minuartia douglasii

CUPRESSACEAE

Calocedrus decurrens

CYPERACEAE

Rhynchospora glomerata var. minor

ERICACEAE

Arctostaphylos sp.

FABACEAE

Lotus purshianus

FAGACEAE

Quercus sp.

GENTIANACEAE

Centaurium venustum ssp. abramsii

HYPERICACEAE

Hypericum concinnum

JUNCACEAE

Juncus bufonius  
Juncus tenuis  
Juncus triflorus

ONAGRACEAE

Epilobium minutum

PINACEAE

Pinus sp.

POACEAE

Aira caryophyllea  
Agrostis microphylla var. hendersonii  
Andropogon glomeratus  
Panicum sp.  
Poa gracillima  
Poa scabrella  
Vulpia sp.

POLEMONIACEAE

Linanthus filipes

POLYGALACEAE

Polygala cornuta

POLYGONACEAE

Eriogonum lobbii  
Polygonum parryi

POLYPODIACEAE

Cheilanthes gracillima  
Cheilanthes siliquosa

PORTRULACACEAE

Lewisia triphylla  
Montia spathulata

ROSACEAE

Horkelia tridentata  
Potentilla glandulosa

RUBIACEAE

Galium bolanderi

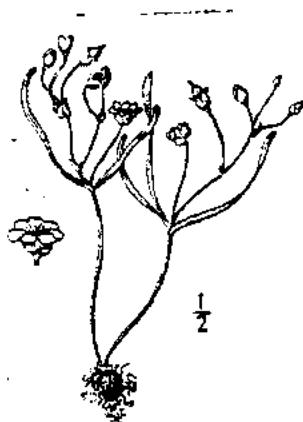
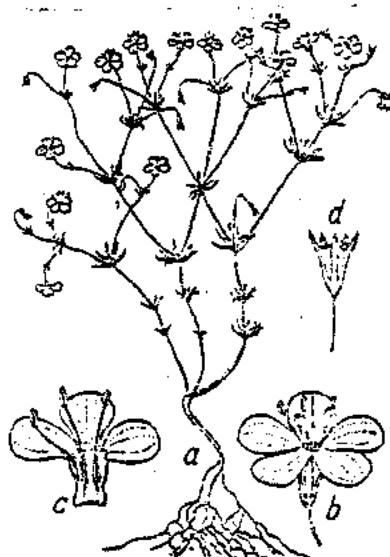
## SANTALACEAE

*Comandra umbellata* ssp. *californica*

## SCROPHULARIACEAE

*Mimulus breweri**Mimulus layneae**Mimulus torreyi**Pedicularis densiflorus**Penstemon laetus* var. *leptosepalus*

## STYRACACEAE

*Styrax officinale* ssp. *redivivum**Lewisia triphylla*Fig. 390. *Linanthus filipes* Greene.*Cheilanthes gracillima**Centaurium venustum*  
ssp. *abramsii*

KEY TO THE IRIS OF BUTTE COUNTY, CALIFORNIA  
M.S. Taylor January 1981

A. Perianth tube short, ovary almost directly beneath juncture of perianth segments,  
generally not hidden by spathe valves. Iris hartwegii Baker

AA. Perianth tube over 1 cm long, ovary at  
lower end of perianth tube, generally  
hidden by spathe valves.

B. Style crests short and rounded,  
shorter than the style branch,  
perianth tube with bowl-like  
enlargement below juncture of  
perianth segments.

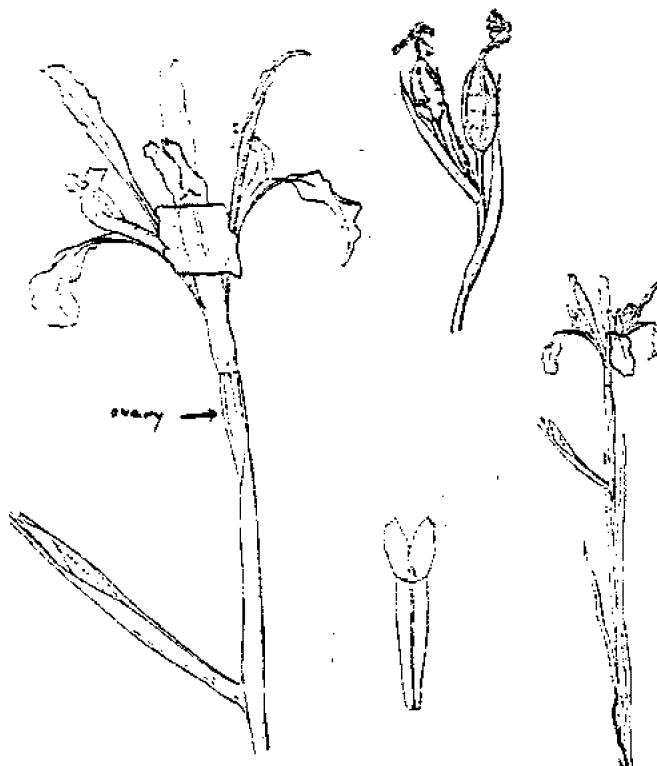
Iris macrosiphon Torr.

BB. Style crests long and slender,  
occasionally as long as the style  
branches; perianth tube with  
conspicuous throat between juncture  
of perianth segments and narrower  
perianth tube.

Iris tenuissima Dykes



Iris macrosiphon



Iris hartwegii



Iris tenuissima

KEY TO LUPINUS SECT. MICRANTHI IN BUTTE COUNTY, CALIFORNIA  
M.S. Taylor January 1981

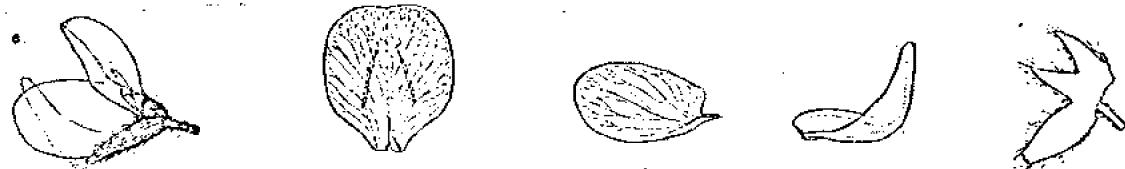
- A. Pedicels 1-3 mm long; banner longer than broad, wings and banner 4-10 mm long, flowers 4-8 (-12) mm long (see also L. nanus var. vallicola and var. apricus).  
B. Reflexed portion of banner much shorter than the portion appressed to the wings; banner reflexed near the tip of the wings; acumen blunt; lflts generally glabrous above.  
L. polycarpus Greene



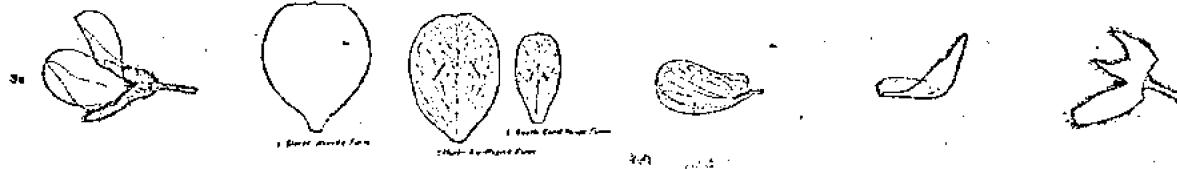
- BB. Reflexed portion of banner generally as long as the appressed portion or longer; acumen blunt or very slender; lflts always pubescent on both sides.  
C. Keel wholly glabrous, rarely with 1 or 2 small cilia on the upper margin.  
D. Banner 5.2-6.5 mm long, 3-5 mm wide, spatulate to oblong; pods 3.8-4.8 mm wide, with 5-9 seeds. L. bicolor ssp. pipersmithii (Heller) D. Dunn



- DD. Banner 7-8.5 mm long, 6.5-7.5 mm wide, obovate, tending toward orbicular; pods (6) 7-9 mm wide, with 3-5 seeds. L. pachylobus Greene

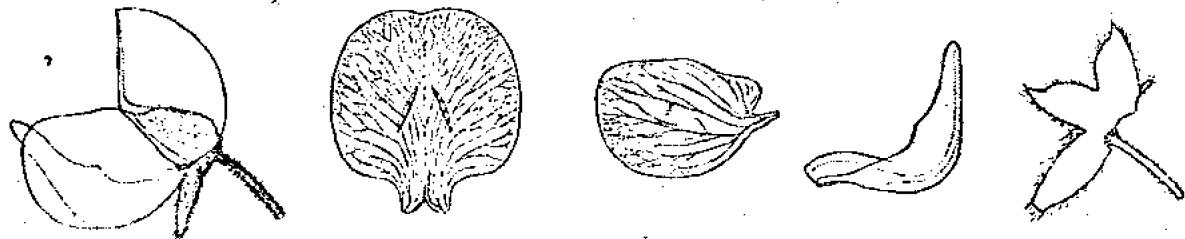


- CC. Keel clearly ciliate along upper margin toward distal half (apex).  
L. bicolor ssp. tridentatus (Eastw. ex P. Sm.) D. Dunn



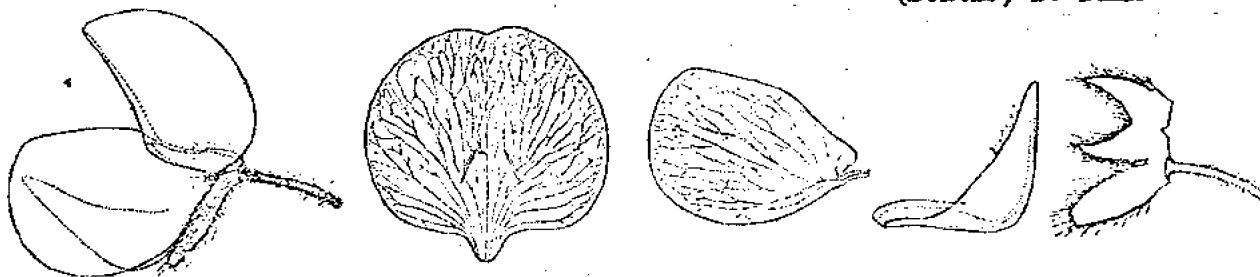
- AA. Pedicels 3-7 (4-10) mm long, slender; banner broader than long, the wings and banner 9-17 mm long (except some forms of L. nanus var. vallicola and apricus).
- B. Flowers 10-15 mm long, largest lflts 5-15 mm wide, oblanceolate or somewhat spatulate; pods 6-8.5 mm wide, rarely less; seeds 4-6 mm long, rarely less.
- C. Keel with distinct tooth on the upper margin near the middle; spreading hairs generally few, largest lflts 2-5 cm long, 5-14 mm wide; longest petioles 4-15 cm long; pods 7.5-8.5 mm wide; seeds 5 mm long, 3-6 mm wide.

L. affinis J.G. Agardh.



CC. Keel entire, not toothed; spreading hairs generally abundant; largest lflts 1-3 cm long, 2-7.5 mm wide; longest petioles 3.5-7.5 cm long; pods 5.5-6.5 mm wide; seeds 3.5-4 mm long, 2.8-3.1 mm wide. L. nanus ssp. latifolius.

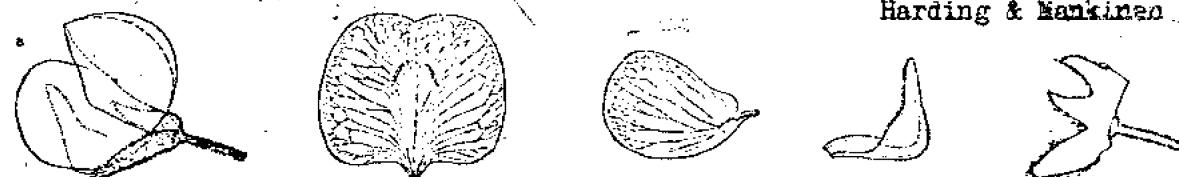
(Benth.) D. Dunn



BB. Flowers 6-10 mm long; largest lflts 1.5-5 mm wide, linear to linear-oblong; pods 3.5-5.5 mm wide; seeds 2-4 mm long.

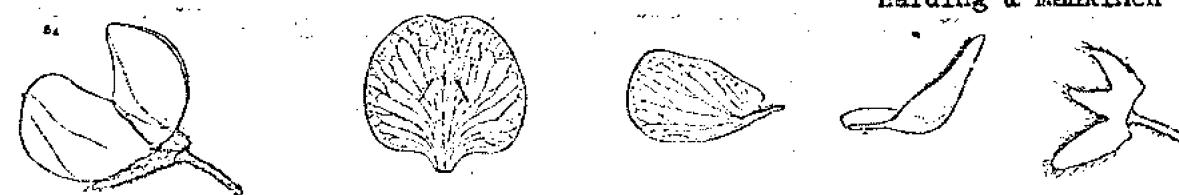
C. Reflexed portion of banner shorter than appressed portion (+), tip reflexed only 2.3 mm from the tip of the wings, sulcus of banner deep.

L. nanus ssp. vallicola (Heller) Elliot  
Harding & Mankinen



CC. Reflexed portion of banner about as long as the appressed portion, tip reflexed more than 3 mm from the tip of the wings; sulcus of banner shallow.

L. nanus ssp. apricus (Greene) Elliot,  
Harding & Mankinen



KEY TO THE JUNCUS OF BUTTE COUNTY

A- Inflor. lateral, the lower bract terete and like a continuation of the stem.

B- Fls. 1-3(5); tufted sub-alpine plants; seeds conspicuously tailed

C- Uppermost leaf sheath bearing a filamentous rudiment of a blade; caps. retuse  
1) J. drummondii E. May

CC- Uppermost leaf sheath with a well developed blade mostly 2-7 cm long;  
caps. acute at summit.

2) J. parryi Engelm.

BB- Fls. many; pls. from creeping rootstalks, seeds not tailed.

C- Perianth 2.0-3.5 mm long; anthers from shorter then to equal to length of  
filament.

D- Stamens 3, opposite the outer perianth segments; caps. strongly 3-angled  
and cornered, truncate; seeds uniform, not oblique; basal leaf sheaths  
chocolate brown; large densely tufted plants.

E- Perianth segments 2.5-3.5 mm long; culm 2.0-3.5 mm thick at the  
top of the sheath.

3) J. effusus L. var. pacificus Fern. & Wieg.

EE- Perianth segments 2.0 mm long; caps. definitely shorter than perianth;  
culms 1.0-1.5 mm thick at the top of the sheath.

4) J. effusus L. var. exiguus Fern. & Weig.

DD- Stamens 6; caps. subglobose, obscurely angled; seeds oblique; basal  
leaf sheaths lighter colored with a blade-like rudiment; plants tufted  
but from creeping rootstalks.

5) J. patans E. May

CC- Perianth longer than 3.5 mm; anthers much longer than filaments.

D- Stems 3.0-5.0 mm thick, finely and evenly ridged, woody tissue present  
at the base of the stem, stems remaining terete when pressed; caps. obtuse  
6) J. textilis Buch.

DD- Stems less than 3.0 mm thick, smooth to irregularly ridged when dry, no  
woody tissue present; caps. acute.

E- Leaf blades well developed on the uppermost sheath; stems flattened,  
frequently twisted

7) J. balticus Willd. var. mexicanus Kuntz  
(= J. mexicanus Willd.)

EE- Upper leaf blades lacking; stems usually terete.

F- Perianth segments greenish to brownish; panicle generally greater  
than 1.0 cm. in length, diffuse; stems 1.5-2.0(2.5) mm thick; plants  
2.0-5.0 dm. tall; lower elevations and upwards in mountains.

8) J. balticus Willd.

FF- Perianth segments brownish; panicle congested, rarely greater  
than 1.0 cm long; stems ca. 1.5 mm thick; plants mostly 1.0-3.0 dm  
tall; high elevation montane.

9) J. balticus Willd. var. montanus Engelm.

AA- Inflor. seemingly terminal, the lower bract not exactly like a continuation of the stem, or if so then conspicuously channeled along the inner surface of the bract and not strictly erect.

B- Leaf blades flat, their surface facing the stem, not with internal septae (can you feel a series of septae along the length of a leaf blade).

C- Fls. inserted singly on the inflor., ie. each fl. subtended by two bractlets surrounding the base of the perianth segments.

D- Annual; stems branching from the base; inflor. a third or more of the total height of the plant.

E- Caps. oblong to sub-globose, 2.0-3.0 mm long; perianth 2.0-4.0 mm long; plants rarely exceeding 15 cm in height.

10) J. bufonius L. var. occidentalis F.J. Herm.  
(= J. sphaerocarpus Nees.)

EE- Caps. oblong, 3.0-4.5 mm long; perianth 4.0-6.0 mm long; plants often greater than 15.0 cm in height.

F- Fls. inserted singly on the inflor.; seeds obviously minutely reticulate.

12) J. bufonius L.

FF- Fls. fasciculately clustered, each still with two bractlets; seeds translucent, shining, smooth.

13) J. bufonius L. var. congdonii (Wats.) J.T. Howell

DD- Perennial, stems simple; inflor. short relative to the overall height of the plant.

E- Inflor. open, generally more than 3.0 cm long; perianth often less than 4.0 mm long, the segments greenish; lvs. usually from half to much longer than the overall stem length; auricles very thin, much longer (up to 6.0 mm) than broad.

14) J. tenuis Willd.

EE- Inflor. usually congested, mostly less than 3.0 cm long; perianth usually no less than 4.0 mm long, the segments with a brownish with a broad, green midstripe; lvs less than  $\frac{1}{2}$  stem length, aur. membran.

15) J. tenuis Willd. var. congestus Engelm.

CC- Fls. inserted in true heads, the inflor., not the fls., are subtended by two bractlets

D- Perennials; leaf blades flat; stamens 6.

E- Leaf sheath passing gradually into the blade; auricles lacking or small, linear and acute, especially in lower leaves; perianth conspicuously papillose-roughened under the lens; seeds ca. 0.6 mm long, oblique-obvoid, short-apiculate.

16) J. orthophyllum Cov.

EE- Leaf-sheath and blade more sharply differentiated; auricles well developed, 1.0-3.0 mm long, truncate to rounded; perianth smooth; seeds ca 1.0 mm long, covered by a strongly reticulate membrane that forms a conspicuous appendage at each end.

17) J. howellii F.J. Herm.

DD- Annuals with setaceous leaf blades; stamens three.

E- Lowest bract of inflor. leaflike surpassing the head; caps. less than half the length of perianth.

18) J. capitatus Weigel.

EE- Lowest bract not as above; caps. larger.

F- Anthers 1.0-2.0 mm long and also longer than filament; pls. 3-12 cm. high; style 1.5-3.0 mm long.

G- Caps. equaling to exceeding length of perianth; perianth segments subequal; seeds with longitudinal and transverse ribs equally faint; pls. robust and rigid.

19) J. leiospermus F.J. Herm.

GG- Caps. shorter than perianth, inner segments shorter than outer; Seeds with evident longitudinal ribs much more obvious than the transverse ones; pls. more filiform with slender peduncles.

20) J. triformis Engelm.

FF- Anthers 0.1-0.6 mm long and shorter than filaments; pls. 0.5-4.0 cm tall; style 0-0.1 mm long.

G- Heads normally 2-several flowered; bracts two, ca 1.5 mm long, subequal; seeds conspicuously reticulate.

21) J. kelloggii Engelm.

GG- Heads normally one-flowered; bracts 1, if 2 than unequal in length and less than 1.5 mm long; seeds smooth or faintly cancellate.

H - Perianth 2.0-3.0 mm long; caps. narrowly oblong, conspicuously exceeding perianth when mature; bracts 1 or 2, the upper 1.25 mm long, the lower, when present rudimentary.

22) J. hemiendytus F.J. Herm.

HH - Perianth 3.0-3.5 mm long; caps. oblong-ovoid, ca equal in length to perianth when mature; bract 1, spathiform, completely surrounding the peduncle, wider than long.

23) J. uncialis Greene

BB- Leaf blades terete, or if flat with the edge toward the stem (gladiate), with somewhat evident internal septae.

C- Leaf blades terete, or somewhat compressed but not gladiate; septae nearly always complete (ridges complete transversely extending from one edge of the leaf to the other).

D-Stamens 3; perianth 3.0-3.5mm long; low elev. Foothill Wood.& Sacramento V.

E- Heads 1-few, usually congested, many-flowered; caps. clavate-oblong.

24) J. bolanderi Engelm.

EE- Heads 6-50, scattered in an open inflor., few flowered; Caps. narrowly ovate-lanceolate.

25) J. acuminatus Michx.

DD- Stamens 6; perianth 2.0-5.0 mm long; lower elevations to high montane.

E- Perianth 2.0-3.5 mm long; caps. well exserted from perianth when mature narrowing to a conspicuous beak.

F- Anthers definately shorted than filaments; auricles 1.0-1.5 mm long; basal leaves 1-2, withering early.

26) J. articulatus L.

FF- Anthers longer than filaments; auricles 4.0-6.0 mm long; basal sheaths bladeless.

27) J. dubius Engelm.

EE-- Perianth 3.5-5.0 mm long; caps. less than or equal to the length of the perianth, obtuse to retuse at the apex;

F- Heads solitary (occasionally 2) with 12 or more flowers per head; F bract spathaceous; perianth segments black-purple, flacid; anthers shorter than filaments.

28) J. mertensianus Bong.

FF- Heads several to many, each with less than 12 flowers; bracts otherwise; perianth segments brown, stiffish; anthers longer than filaments.

29) J. mertensianus Bong. ssp. gracilis (Engelm.) F.J. Herm.

CC- Leaf blades gladiate, ± iris-like; spetae incomplete.

D- Anthers 6, longer than filaments; style at least equally the length of the ovary at anthesis, ca. 1.5-2.0 mm long on developing and mature caps.; heads numerous in large compound panicles.

E- Caps. narrowly oblong, attenuate, well exserted from perianth at maturity; outer and inner perianth segments with conspicuous subulate to attenuate tips; perianth segments 3.0-4.0 mm long.

29) J. oxymeris Engelm.

EE- Caps. oblong and abruptly acuminate; outer perianth segments with subulate to acuminate tips, the inner ones acute; perianth segments 4.0-5.0 mm long.

30) J. phaeocephalus Engelm. var. paniculatus Engelm.

DD- Anthers 3 (occasionally 6), shorter than filaments; style much shorter at anthesis, 0.5 mm long or less on developing and mature caps.; heads few (1-3) in large glomerate clusters.

31) J. ensifolius Wikstr.

NOTE: Of the 56 species, subspecies, and varieties listed by Munz and Keck Butte County has 31, and undoubtedly other await their discovery (Juncus need love too). Additionally only one of these 31 taxa is a non-native: J. capitatus.

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WANTED LIST - CSUC HERBARIUM LACKS THESE SPECIMENS (BUTTE COUNTY)

FERNS

*Cheilanthes covillei*  
*Cheilanthes intertexta*  
*Thelypteris nevadensis*

PINACEAE

*Pinus attenuata*

AIZOACEAE

*Cypselea humifusa*  
*Glinus lotoides*

APIACEAE

*Angelica californica*, ined.  
*Apiastrum angustifolium*  
*Cicuta douglasii*  
*Lomatium leptocarpum*  
*Lomatium macrocarpum ellipticum*  
*Lomatium nudicaule*  
*Lomatium plummereae*  
*Oenanthe sarmentosa*  
*Perideridia bolanderi involucrata*  
*Perideridia oregana*  
*Perideridia bolanderi*  
*Sanicula graveolens*  
*Sium suave*  
*Torilis arvensis*

APOCYNACEAE

*Apocynum cannabinum pubescens*

ARISTOLOCHIACEAE

*Asarum caudatum*  
*Asarum lemmonii*

ASTERACEAE

*Achillea millefolium*  
*Agoseris grandiflora*  
*Arnica spathulata eastwoodiae*  
*Aster chilensis latus*  
*Aster occidentalis delectabilis*  
*Aster occidentalis parishii*  
*Balsamorhiza macrolepis*  
*Salsamorhiza sagittata*  
*Bidens cernua*  
*Brickellia greenei*  
*Calycadenia multiglandulosa bicolor*  
*Centaurea maculosa*  
*Centaurea repens*  
*Chaenactis douglasii rubicaulis*  
*Cirsium arvense*  
*Cirsium cymosum*  
*Coreopsis stillmanii*  
*Erigeron inornatus*  
*Erigeron peregrinus callianthemis*  
*Eriophyllum lanatum croceum*

ASTERACEAE, CONT

*Eriophyllum lanatum integrifolium*  
*Helianthus annuus*  
*Hemizonia parryi rufa*  
*Heterotheca oregonensis*  
*Hieracium horridum*  
*Iva axillaris*  
*Lagophylla dichotoma*  
*Lasthenia ferrisiae*  
*Lasthenia glabrata*  
*Lessingia virgata glomerata*  
*Malacothrix californica*  
*Microseris heterocarpa*  
*Rigiopappus leptocladus*  
*Stephanomeria virgata*  
*Stylocline filaginea*  
*Tanacetum vulgare*  
*Tragopogon dubius*  
*Tragopogon pratensis*  
*Wyethia bolanderi*

BETULACEAE

*Betula glandulosa*  
*Betula occidentalis*

BERBERIDACEAE

*Berberis repens*

BORAGINACEAE

*Cryptantha muricata*  
*Cryptantha rostellata*  
*Cryptantha simulans*  
*Cynoglossum occidentale*  
*Hackelia setosa*  
*Plagiobothrys bracteatus aculeatus*  
*Plagiobothrys cognatus*  
*Plagiobothrys stipitatus*

BRASSICACEAE

*Allyssum alyssoides*  
*Arabis drummondii*  
*Arabis sparsiflora*  
*Arabis sparsiflora arcuata*  
*Cardaria pubescens*  
*Lepidium latifolium*  
*Lepidium virginicum pubescens*  
*Sisymbrium altissimum*  
*Thysanocarpus laciniatus*

CALLITRICHACEAE

*Callitricha hermaphroditica* (?)

CAMPANULACEAE

*Downingia insignis*  
*Githopsis calycina*  
*Nemacladus interior*

CAPPARIDACEAE	FABACEAE, cont.
<i>Cleome platycarpa</i>	<i>Trifolium bifidum decipiens</i> <i>Trifolium appendiculatum</i> <i>Trifolium cyanthiferum</i> <i>Trifolium monanthum parvum</i> <i>Trifolium oliganthum</i>
CAPRIFOLIACEAE	
<i>Linnaea borealis longiflora</i>	
<i>Lonicera ciliosa</i>	
CARYOPHYLLACEAE	FAGACEAE
<i>Arenaria congesta</i>	<i>Quercus garryana breweri</i>
<i>Cerastium arvense</i>	<i>Quercus garryana semota</i>
<i>Cerastium viscosum</i>	<i>Quercus x joloensis</i>
<i>Sagina saginoides</i>	
<i>Silene pratensis</i>	FUMARIACEAE
<i>Silene occidentalis longistipata</i>	<i>Dicentra pauciflora</i>
CELASTRACEAE	GERANIACEAE
<i>Paxistima myrsinites</i>	<i>Geranium sphaerospermum</i>
CHENOPODIACEAE	HYDROPHYLLACEAE
<i>Chenopodium berlandieri zschackei</i>	<i>Nemophila parviflora austinae</i>
<i>Chenopodium gigantospermum</i>	<i>Phacelia mutabilis</i>
<i>Chenopodium missouriense</i>	<i>Phacelia ramosissima</i>
CONVOLVULACEAE	LAMIACEAE
<i>Cressa truxillensis vallicola</i>	<i>Glechoma hederacea</i>
<i>Dicondra micrantha</i>	<i>Mentha arvensis villosa f. brevipilosa</i>
CORNACEAE	<i>Monardella douglasii venosa</i>
<i>Cornus sessilis</i>	LIMNANTHACEAE
<i>Cornis stolonifera</i>	<i>Floerkea proserpinacoides</i>
CRASSULACEAE	LINACEAE
<i>Sedum albomarginatum</i>	<i>Sclerolinon dignum</i>
DIPSACACEAE	LYTHRACEAE
<i>Sipsacus fullonum</i>	<i>Lythrum adsurgens</i>
<i>Dipsacus sativus</i>	<i>Lythrum californicum</i>
ERICACEAE	<i>Lythrum salicaria</i>
<i>Arctostaphylos truei</i>	<i>Peplis portula</i>
<i>Ledum glandulosum californicum</i>	MALVACEAE
EUPHORBIACEAE	<i>Abutilon theophrasti</i>
<i>Euphorbia nutans</i>	<i>Malva parviflora</i>
FABACEAE	<i>Sida leprosa hederacea</i>
<i>Albizia distachya</i>	MORACEAE
<i>Astragalus accidens hendersonii</i>	<i>Cannabis sativa (wild)</i>
<i>Lotus scoparius</i>	ONAGRACEAE
<i>Lotus stipularis ottleyi</i>	<i>Camissonia tanacetifolia</i>
<i>Lupinus affinis</i>	<i>Clarkia mosquinii</i>
<i>Lupinus albifrons</i>	<i>Clarkia mosquinii xerophila</i>
<i>Lupinus albifrons eminens</i>	<i>Epilobium brevistylum</i>
<i>Lupinus argenteus</i>	<i>Epilobium foliosum</i>
<i>Lupinus densiflorus lacteus</i>	<i>Epilobium glaberrimum</i>
<i>Lupinus formosus</i>	<i>Gayophytum racemosum</i>
<i>Lupinus formosus robustus</i>	<i>Oenothera hookeri angustifolia</i>
<i>Lupinus pachylobus</i>	
<i>Lupinus subvexus</i>	OROBANCHACEAE
<i>Lupinus succulentus</i>	<i>Orobanche californica jepsonii</i>
	<i>Orobanche fasciculata</i>

## PIANTAGINACEAE

*Plantago major scopulorum*  
*Plantago truncata firma*

## POLEMONIACEAE

*Linanthus dichotomus meridianus*  
*Linanthus pygmaeus continentalis*  
*Navarretia minima*  
*Navarretia nigellaeformis*  
*Navarretia prolifera*  
*Navarretia subuligera*

## POLYGONACEAE

*Eriogonum umbellatum polyanthum*  
*Eriogonum umbellatum speciosum*  
*Eriogonum umbellatum stellatum*  
*Polygonum arenastrum*  
*Polygonum phytolaccacefolium*  
*Rumex salcifolius*  
*Rumex triangulivalvis oreolapathum*

## PORTULACACEAE

*Calyptidium monospermum*  
*Montia linearis*

## PYROLACEAE

*Allotropa virgata*  
*Pyrola californica*

## RANUNCULACEAE

*Anemone quinquefolia minor*  
*Delphinium hansenii*  
*Delphinium hesperium pallescens*  
*Delphinium variegatum apiculatum*  
*Ranunculus acris*  
*Ranunculus alismatifolius hartwegii*  
*Ranunculus populago*  
*Ranunculus subrigidus*

## RHAMNACEAE

*Ceanothus diversifolius*  
*Ceanothus integerrimus californicus*  
*Ceanothus parviflorus*  
*Rhamnus purshianus*

## ROSACEAE

*Horkelia daucifolia*  
*Physocarpus capitatus*  
*Potentilla biennis*  
*Potentilla glandulosa nevadensis*  
*Potentilla norvegica monspeliensis*  
*Prunus subcordata oregana*  
*Prunus subcordata rubicunda*  
*Rubus macropetalus*  
*Rubus pensylvanicus*  
*Sanguisorba annua*  
*Sorbus californica*  
*Sorbus scopulina cascadensis*

## RUBIACEAE

*Galium porrigens*  
*Galium trifidum pusillum*

## SALICACEAE

*Populus tremuloides*  
*Salix eastwoodiae*  
*Salix exigua melanopsis gracilipes*  
*Salix gooddingii variabilis*  
*Salix geyeriana argentea*  
*Salix hookeriana*

## SAURURACEAE

*Anemopsis californica*

## SAXIFRAGACEAE

*Lithophragma campanulatum*  
*Parnassia palustris californicus*  
*Ribes viscosissimum*  
*Saxifraga major*

## SCROPHULARIACEAE

*Bacopa repens*  
*Castilleja stenantha*  
*Collinsia bartsiifolia*  
*Collinsia parviflora*  
*Collinsia torreyi wrightii*  
*Cordylanthus tenuis*  
*Digitalis purpurea*  
*Limosella acaulis*  
*Linaria dalmatica*  
*Mimulus jepsonii*  
*Mimulus laciniatus*  
*Mimulus leptaleus*  
*Mimulus lewisii*  
*Mimulus mephiticus*  
*Mimulus rubellus*  
*Orthocarpus lithospermoides bicolor*  
*Pedicularis densiflora aurantiaca*  
*Penstemon aureus angustissimus*  
*Penstemon personatus*  
*Tonella tenella*

## SOLANACEAE

*Lycopersicon esculentum*  
*Solanum carolinense*  
*Solanum umbelliferum incanum*

## STYRACACEAE

*Styrax officinale ssp. fulvescens*

## TAMARICACEAE

*Tamarix aphylla*

## TROPAEOLACEAE

*Tropaeolum majus*

## URTICACEAE

*Urtica dioica holosericea*

## VALERIANACEAE

*Centranthus ruber*  
*Valerianella locusta*

## VERBENACEAE

*Verbena bonariensis*  
*Verbena brasiliensis*  
*Verbena lasiocostachys*

## VIOLACEAE

*Viola sheltonii*

## VISCACEAE

*Arceuthobium abietinum concoloris*  
*Arceuthobium californicum*  
*Arceuthobium douglasii*

## ALISMATACEAE

*Alisma lanceolatum*

## AMARYLLIDACEAE

*Allium acuminatum*  
*Allium neopolitanum*  
*Allium serra*  
*Brodiaea purdyi*

## CYPERACEAE

*Carex abrupta*  
*Carex breviliqualata*  
*Carex concinnooides*  
*Carex deweyana leptopoda*  
*Carex diandra*  
*Carex hirtissima*  
*Carex laeviculmis*  
*Carex ormantha*  
*Carex senta*  
*Carex serratodens*  
*Carex sitchensis*  
*Carex vernacula*  
*Carex vicaria*  
*Cyperus flavescens*  
*Cyperus virens*  
*Kyllinga brevifolia*  
*Eleocharis atropurpurea*  
*Scirpus americanus*  
*Scirpus supinus saximontanus*

## HYDROCHARITACEAE

*Ottelia alismoides*

## IRIDACEAE

*Iris tenuissima*

## JUNCACEAE

*Juncus bufoniuim occidentalis*  
*Juncus kelloggii*  
*Juncus mertensianus*  
*Juncus textilis*

## LEMNACEAE

*Wolffiella lingulata*

## LILIACEAE

*Narthecium californicum*  
*Smilacina stellata*  
*Trillium kurabayashi*  
*Zigadenus exaltatus*

## NAJADACEAE

*Najas gramineae*

## ORCHIDACEAE

*Cypripedium californicum*  
*Platanthera dilatatum*  
*Platanthera sparsiflora*

## POACEAE

*Agropyron elongatum*  
*Agrostis exigua*  
*Alopecurus howellii*  
*Anthoxanthum odoratum*  
*Avena fatua glabrata*  
*Bromus carinatus*  
*Bromus inermis*  
*Bromus molliformis*  
*Bromus polyanthus*  
*Calamagrostis koelerioides*  
*Crypsis vaginiflora*  
*Digitaria ischaemum*  
*Diplachne uninervia*  
*Echinochloa crusgalli oryzicola*  
*Festuca pratensis*  
*Hordeum brachyantherum*  
*Hordeum distichon*  
*Hordeum jubatum*  
*Muhlenbergia mexicana*  
*Muhlenbergia mexicana ambigua*  
*Muhlenbergia microsperma*  
*Panicum agrostoides*  
*Phalaris angusta*  
*Phalaris arundinacea*  
*Phalaris lemmonii*  
*Poa compressa*  
*Poa epilis*  
*Poa sierrae*  
*Poa suksdorfii*  
*Sorghum bicolor*  
*Trisetum spicatum projectum*

## PONTEDERIACEAE

*Heteranthera dubia*  
*Monochoria vaginalis*

## POTAMOGETONACEAE

*Potamogeton gramineus maximus*

## TYPHACEAE

*Typha domingensis*  
*Typha glauca*



2. *domingensis*

2. *acuminatum*

