

State of California
The Resources Agency
Department of Fish and Game

California Vernal Pool Assessment Preliminary Report

May 1998

Appendix C: Plant Species Associated With Vernal Pools

This list is preliminary and refinement is necessary, both from the standpoint of the species included and their geography. The ultimate goal will be to regionalize the flora and fauna of pools to such a point that we will be able to determine the biological representativeness of a given pool or complex within any California vernal pool region. This will greatly assist in our understanding of vernal pool conservation needs.

Vernal pool indicators (vpi) = species that are restricted to vernal pools and are not known from other habitats

Vernal pool associates (vpa) = species that regularly occur in vernal pools but are not restricted to them, also occurring in other similar wetland habitats

Generalists (gen) = species that can occur in more than one habitat, either wetland or upland, or sometimes both, including vernal pools, pool margins, disturbed areas, and grasslands.

vpi? = a species that is a vpi in certain region(s) only, and can be a vpa or gen in other regions

vpa? = a species that is a vpa in certain region(s), and is gen in other regions

vpi/vpa = a species that is a vpi in some regions and a vpa in other regions, yet not known to be a gen

Scientific Name	Range	Habitat
<i>Acanthomintha ilicifolia</i> LAMIACEAE gen	s SCo, sw PR (San Diego Co)	vernal pools, clay depressions on mesas, slopes in chaparral, coastal- sage scrub
<i>Achyrachaena mollis</i> ASTERACEAE gen	CA-FP; s OR, n Baja	grassy areas
<i>Agoseris heterophylla</i> ASTERACEAE gen	CA (exc SNE, D); to BC, ID, NM, Mex.	many open habitats
<i>Agrostis elliottiana</i> (= <i>A. exigua</i>) POACEAE vpa	NCoRI, CaRF, n SNF, n ScV; to s US	vernal pool margins
<i>Agrostis hendersonii</i> POACEAE vpi	CaRF, n SNF, ScV, n SnJV; OR	vernal pools
<i>Agrostis microphylla</i> POACEAE vpa?	NCo, s NCoR, CCo, SCo; to BC & Baja	thin rocky soils, cliffs, sometimes on serpentine, vernal pools
<i>Agrostis tandilensis</i> * POACEAE vpi	Deltaic GV (Solano Co), s SCo (San Diego Co), expected elsewhere	vernal pools
<i>Aira caryophyllea</i> * POACEAE gen	NW, w CaR, SNF, GV, CW, e SW; to BC, e US, Baja; native to Europe	sandy soils, open or disturbed sites
<i>Allium amplectans</i> LILIACEAE gen	CA-FP; (exc SNH); to BC	clay soils incl serpentine; open or wooded places
<i>Allium lemmonii</i> LILIACEAE vpa?	n&c SNH, MP; to OR, ID, NV	drying clay soils
<i>Allium tolmiei</i> LILIACEAE vpa?	MP; to WQ, ID, NV	rocky clay flats
<i>Alopecurus carolinianus</i> POACEAE vpa?	NW, GV, SW to BC, e NAM; natural habitats in s SCo, weedy elsewhere	vernal pools, open disturbed ground
<i>Alopecurus saccatus</i> (<i>A. howellii</i>) POACEAE vpi?	NW, s SN, CW, GV, SW; to WA	vernal pools, moist open meadows
<i>Amaranthus albus</i> * AMARANTHACEAE gen	CA; widespread NAM, to Eurasia; native to trop Am	weed of waste places, roadsides, fields
<i>Ambrosia pumilla</i> ASTERACEAE vpa?	s SCo (San Diego Co); Baja	rare; disturbed sites
<i>Ammania robusta</i> LYTHRACEAE gen	NCoR, s SNF, GV, CW, SCo, s ChI (Santa Catalina Island), DSoN; to c US, Mex	wet places, drying pond and ditch margins

<i>Amsinkia eastwoodiae</i> BORAGINACEAE gen	NCoRI, SNF, Tih, GV, SCoR, SW	open valleys, hills
<i>Anagallis arvensis</i> * PRIMULACEAE gen	CA-FP; to e NAM; native to Europe	disturbed places, ocean beaches
<i>Aristida oligantha</i> POACEAE gen	NW; CaRF, SNF, GV, MP; to OR, e US	dry slopes, fields, grassland shrubland, woodland
<i>Artemisia biennis</i> * ASTERACEAE gen	NCoRO, SnJV, CW, SCo, WTR, SnBr, GB; NAM; native to Europe	disturbed moist soils
<i>Artemisia cana</i> ssp. <i>bolanderi</i> ASTERACEAE gen	CaRH, s SNH, GB; to OR, NV	gravelly soils, meadows, streambanks
<i>Asclepias fascicularis</i> ASCLEPIADACEAE gen	CA (exc NCo, CCo, SCo, D); to WA, UT, Baja	dry ground, valleys, foothills, along creeks in vernal wet, grassy depressions
<i>Astragalus tener</i> var. <i>ferrisiae</i> FABACEAE gen	presumed extinct	alkaline flats, vernal-moist meadows
<i>Astragalus tener</i> var. <i>tener</i> FABACEAE vpa	s ScV, n SnJV, e SnFrB (where mostly extirpated)	alkaline flats, vernal-moist meadows
<i>Astragalus tener</i> var. <i>titi</i> FABACEAE gen	c CCo, SCo (where possibly extirpated)	moist sandy depressions near coast, coastal bluffs, dunes
<i>Atriplex cordulata</i> CHENOPODIACEAE vpa	s ScV, SnJV	rare, saline or alkaline soils (locally abundant in alk soil of vernal wet flats)
<i>Atriplex coronata</i> var. <i>coronata</i> CHENOPODIACEAE vpa?	s ScV, SnJV, e SCoRI	fine, alkaline soils
<i>Atriplex coronata</i> var. <i>notator</i> CHENOPODIACEAE vpa	e SCo (San Jacinto Valley, Riverside Co)	alkali sinks
<i>Atriplex depressa</i> CHENOPODIACEAE vpa	s ScV, SnJV	rare, alkaline or clay soils; locally common along vernal pool margins and vernal wet upland
<i>Atriplex fruticulosa</i> CHENOPODIACEAE vpa	Teh, s ScV, SnJV, SnFrB, SCoRI, w DMoj	clay or alkaline soils, open sites, shrubland; common in vernal wet grassy fields and along dry vernal pool margins
<i>Atriplex joaquiniana</i> CHENOPODIACEAE vpa?	s ScV, SnJV, SCoRI (e slope)	rare, alkaline soils
<i>Atriplex miniscul</i> CHENOPODIACEAE vpa?a	SnJV	rare, alkaline soils of playas, grasslands
<i>Atriplex pacifica</i> CHENOPODIACEAE vpa?	Sco, ChI	coastal bluff scrub, coastal scrub, playas
<i>Atriplex parishii</i> CHENOPODIACEAE vpa?	presumed extinct; previously SW (exc ChI), w DMoj; Baja	alkaline or clay soils
<i>Atriplex persistens</i> CHENOPODIACEAE vpi	ScV (Glenn & Solano cos), SnJV (Merced & Tulare cos) [new sp. described in Stutz, H.C. and G. Chu. 1993. <i>Atriplex persistens</i> (Chenopodiaceae), a New Species from California. Madroño. 40:209-213.]	very rare, common only locally on alkaline soil of dry beds of vernal pools
<i>Atriplex vallicola</i> CHENOPODIACEAE vpa	SnJV	dried ponds, alkaline soils
<i>Bassia hyssopifolia</i> * CHENOPODIACEAE gen	CA (exc NW, SNH); widespread NAM; native to Eurasia	disturbed sites, fields, roadsides; on dry margins of pools and vernal wet fields
<i>Bergia texana</i> ELATINACEAE vpa?	GV, SCo; to e WA, c & s US, ne Mex	moist, disturbed soils, sand bars along rivers, margins of pools
<i>Blennosperma bakeri</i> ASTERACEAE vpi	NCoR, ne SnFrB (s Sonoma Co)	wet grasslands, drying edges of vernal pools and along swales
<i>Blennosperma nanum</i> ASTERACEAE vpi?	NCoR, SNF, GV, CW, SCo, ChI	grassland, scrub, woods, gen wet, open areas
<i>Bloomeria crocea</i> LILIACEAE gen	SCoR, TR, PR	grassland, open woodlands, chaparral edges
<i>Briza minor</i> * POACEAE gen	NCo, NCoRO, CCo, n SCoRO, n&c SNF, s ScV, n SnJV, DSon (Rancho Mirage); to OR, e US; native to s&w Europe	shaded or moist, open sites
<i>Brodiaea filifolia</i> LILIACEAE vpa?	s SCo (w San Diego Co), w PR (Riverside & San Diego cos), extirpated from LA & San Bern. cos	grassland, vernal pools

<i>Brodiaea jolonensis</i> LILIACEAE gen	SCoRO, w SW (incl Santa Cruz Island); n Baja	vernal pool margin, grassland, foothill woodland on clay
<i>Brodiaea coronaria</i> LILIACEAE gen	NW, CaR, n&c SN; to BC	grassland, volcanic mesas
<i>Brodiaea minor</i> LILIACEAE gen	n&c SNF, e ScV, ne SnJV	grassland, gravelly clay soils
<i>Brodiaea orcuttii</i> LILIACEAE vpa	PR (s Riverside & San Diego cos)	grassland near streams, vernal pools
<i>Bromus hordeaceus</i> (=B. mollis)* POACEAE gen	CA (uncommon D); Am; native to Eurasia	open, often disturbed areas
<i>Bromus madritensis</i> ssp. <i>rubens</i> * POACEAE gen	CA; to BC, e US, n Mex; native to Europe	open, gen disturbed places
<i>Calandrinia ciliata</i> PORTULACACEAE gen	CA-FP, w MP, s SNE; to NM, CAM; nw SAM	sandy to loamy soil, grassy areas, cult. fields
<i>Callitriche heterophylla</i> CALLITRICHACEAE vpa	CA-FP; MP; to e NAM	becoming stranded at edge of pools or streams or submersed
<i>Callitriche heterophylla</i> var. <i>bolanderi</i> CALLITRICHACEAE vpa	CA-FP; MP; to BC	becoming stranded at edge of pools or streams or submersed
<i>Callitriche marginata</i> CALLITRICHACEAE vpa	CA-FP; to BC, Baja	becoming stranded (often in vernal pools) or submersed
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i> LILIACEAE gen	CaRH, MP; to s-c WA	vernal meadows, heavy clay soil meadows, vernal moist places in yellow pine forest, chaparral
<i>Camissonia tanacetifolia</i> ONAGRACEAE gen	CaR, SN, GV; to WA, ID, NV	open fields, moist slopes, clay soils
<i>Capsella bursa-pastoris</i> * BRASSICACEAE gen	CA; NAM; native to Europe	disturbed sites; gardens
<i>Cardamine oligosperma</i> BRASSICACEAE gen	CA-FP; BC, MT, CO	wet meadows, shady banks, creek bottoms
<i>Cardionema ramosissimum</i> CARYOPHYLLACEAE gen	NCo, CCo, SCo; to WA, Mex, also in Chile	sandy beaches and hills, dunes, bluffs
<i>Carex pansa</i> CYPERACEAE gen	NCo, CCo, SnFrB, ChI; to WA	coastal sand
<i>Castilleja attenuata</i> (=Orthocarpus a.) SCROPHULARIACEAE gen	CA-FP; to BC, n Baja; also c Chile	grassland
<i>Castilleja campestris</i> (=Orthocarpus c.) SCROPHULARIACEAE vpi?	s NCoRI, CaR, n SN, GV, MP; s OR	vernal pools, moist places
<i>Castilleja campestris</i> ssp. <i>campestris</i> SCROPHULARIACEAE vpa	range of sp.	habitats of sp.
<i>Castilleja campestris</i> ssp. <i>succulenta</i> SCROPHULARIACEAE vpi	s SNF, e SnJV	habitats of sp.
<i>Castilleja densiflora</i> SCROPHULARIACEAE gen	NCoR, c SNF, s CCo, SCoR, SW; n Baja	grassland
<i>Castilleja lacera</i> (=Orthocarpus l.) SCROPHULARIACEAE gen	CaR, n&c SN, MP; s OR	grassland
<i>Centaurea solstitialis</i> * ASTERACEAE gen	CA-FP; native to s Europe	invasive, pastures, roadsides, disturbed grassland or woodland
<i>Centaurium muehlenbergii</i> (=C. floribundum) GENTIANACEAE gen	NW, (esp Humboldt Co), CaRF, n SNF, s ScV, n SnJF, n&c CW, n MP; to ID, w NV	common to moist, open forest
<i>Centaurium trichanthum</i> GENTIANACEAE gen	NCoRI, SnFrB	alkaline or saline flats, moist chaparral or open forest
<i>Centaurium venustum</i> GENTIANACEAE gen	NCoRO, CaRF, SNF, e SnJV, SW (exc n ChI, esp San Diego Co), DMoj	dry scrub, grassland, forest
<i>Centunculus minimus</i> PRIMULACEAE vpi?	NCo, n SNF (Calaveras Co), CCo, SnFrB, SCo; to BC, e NAM, Eur, SAM	vernal pools, moist places
<i>Cerastium glomeratum</i> * CARYOPHYLLACEAE gen	CA-FP (exc s SNH); native to Europe	dry hillsides, grassland, chaparral, disturbed areas
<i>Chamaesyce hooveri</i> EUPHORBIACEAE vpi	GV (Butte, Tehama, & Tulare cos)	vernal pools

<i>Chamomilla occidentalis</i> (= <i>Matricaria o.</i>) ASTERACEAE vpa	NCoRO, CaRH, SNH, SnJV, SnFrB, SCoRO, SCo	undisturbed alkali flats, vernal pools, edges of salt marshes
<i>Chamomilla suaveolens</i> (= <i>Matricaria matricarioides</i>)* ASTERACEAE gen	KR, NCoR, CaRH, SN, GV, w CW, SCo; native to nw NAM, ne Asia	disturbed sites, sand bars, river banks, footpaths, roadsides, grazed land
<i>Cicendia quadrangularis</i> GENTIANACEAE gen	NCo, NCoRO, c SNF, GV, CCo; to OR; SAM	open places
<i>Claytonia perfoliata</i> PORTULACACEAE gen	CA-FP, GB, DMtns; to BC, MT, CAM	vernally moist, often shady or disturbed sites
<i>Collinsia parviflora</i> SCROPHULARIACEAE gen	CA-FP, Wrn; to BC, e Can, CO	moist, more or less shady places in mtns
<i>Convolvulus arvensis</i> * CONVOLVULACEAE gen	CA; native to Europe	orchards, gardens, grassland
<i>Conyza canadensis</i> ASTERACEAE gen	CA; more or less worldwide	waste ground
<i>Cordylanthus mollis</i> ssp. <i>hispidus</i> SCROPHULARIACEAE	GV (at least Merced County)	alkaline flats
<i>Cordylanthus palmatus</i> SCROPHULARIACEAE vpa	GV (Colusa, Yolo, Alameda, San Joaquin, Madera, Fresno cos)	alkaline flats
<i>Cotula coronopifolia</i> * ASTERACEAE gen	NCo, CCo, SCoR, SCo; native to s Africa	saline and freshwater marshes along coast
<i>Crassula aquatica</i> (= <i>Tillaea a.</i>) CRASSULACEAE vpi?	NCo, SNF, GV, CW, SW (exc n ChI); to AK, ne US, Mex, n Eurasia	salt marshes, vernal pools, ponds
<i>Crassula connata</i> (= <i>Tillaea erecta</i>) CRASSULACEAE gen	NW, SNF, GV, CW, SW, DSON; to OR, TX, n CAM; also in w SAM	open areas, locally abundant
<i>Crassula solieri</i> CRASSULACEAE vpi	NCoRI, CaRF, n SNF, GV, SCo; to OR, WY, TX, Baja; Chile	vernal pools
<i>Crassula tillaea</i> (= <i>Tillaea muscosa</i>)* CRASSULACEAE gen	NCoRI, n&c SNF, GV, CCo, SW; native to Medit.	open, gravelly sites
<i>Cressa truxillensis</i> CONVOLVULACEAE vpa	CA-FP, DMoj; to OR, TX, Mex	saline and alkaline soils of vernal wet upland fields and drying beds of vernal pools
<i>Crypsis alopecuroides</i> * POACEAE gen	KR, NCoRI, CaRH, CCo (Marin Co), SNE; to WA, e US; native to Europe	bottom-lands, reservoir and river margins
<i>Crypsis schoenoides</i> (<i>Heleochloa s.</i>)* POACEAE vpa	CA-FP, c&e US; native to Europe	wet places
<i>Crypsis vaginiflora</i> (= <i>C. niliaca</i>)* POACEAE vpa	NCoR, CaR, GV, SW (Los Angeles Co); ID; native to Eurasia	wet soils, lake margins, vernal pools
<i>Cuscuta howelliana</i> CUSCUTACEAE vpi	NCoRI, CaRF, n SNF, GV	esp. on <i>Eryngium</i> in vernal pools
<i>Cuscuta salina</i> var. <i>papillata</i> CUSCUTACEAE gen	NCo; to UT, AZ	salt flats, saline ponds; parasite of <i>Frankenia</i> , lesser on <i>Suaeda</i> and <i>Bassia</i> on vernal wet flats and margins of vernal pools
<i>Cyperus eragrostis</i> CYPERACEAE gen	CA-FP; OR; temp SAM	vernal pools, streambanks, ditches
<i>Damasonium californicum</i> ALISMATACEAE gen	NCoRI, n SNF, ScV, MP; OR, ID, NV	ponds, vernal pools, streams, ditches
<i>Danthonia callifornica</i> POACEAE gen	NW, CaR, SN, CW, SnBr, s PR, MP; w Can, w US, SAM (Chile)	gen moist, open sites, meadows, forests
<i>Delphinium recurvatum</i> RANUNCULACEAE vpa?	GV	poorly drained, fine, alkaline soils in grassland
<i>Deschampsia danthonioides</i> POACEAE vpa	CA-FP, MP; to AK, AZ, Baja, SAM	moist to drying open sites, meadows, streambanks, temporary ponds
<i>Dichelostemma capitatum</i> ssp. <i>capitatum</i> (<i>D. lacuna-vernalis</i>) LILIACEAE vpa?	CA; to OR, UT, NM, n Mex	open woodlands, scrub, desert, grassland
<i>Distichlis spicata</i> POACEAE vpa?	CA; s Can, US	salt marshes, moist alkaline areas
<i>Downingia bacigalupii</i> CAMPANULACEAE vpa	CaR, n SNH, MP; to s OR, sw ID	vernal pools, wet ditches, grassy meadows

<i>Downingia bella</i> CAMPANULACEAE vpi	GV (Colusa to Tulare cos), SCo (S. Rosa Plateau, Riverside Co), WTR (extreme n Ventura, s Kern cos)	vernal pools
<i>Downingia bicornuta</i> CAMPANULACEAE vpa	NCoRI (sporadic), CaRF, SN, MP; to s OR, sw ID, w NV	vernal pools, roadside ditches, lake margins
<i>Downingia bicornuta</i> var. <i>bicornuta</i> CAMPANULACEAE vpa	Range of sp.	habitats of sp.
<i>Downingia bicornuta</i> var. <i>picta</i> CAMPANULACEAE vpa	CaRF, n&c SNF	habitats of sp.
<i>Downingia concolor</i> CAMPANULACEAE vpa	s NCoR, w ScV, s SnFrB, c PR	vernal pools, mud flats, pond margins
<i>Downingia concolor</i> var. <i>brevior</i> CAMPANULACEAE vpa	c PR (Cuyamaca Lake/Mtns)	shores
<i>Downingia concolor</i> var. <i>concolor</i> CAMPANULACEAE vpa	s NCoR, w ScV (Lake to Solano cos), SnFrB (Monterey Co)	habitat of sp.
<i>Downingia cuspidata</i> CAMPANULACEAE vpa	NW, c SNF, SnJV, SCoRO, PR; Mex	vernal pools, lake margins, meadows
<i>Downingia elegans</i> CAMPANULACEAE vpa	NW; to WA, ID	vernal pools, wet ditches, grassy meadows
<i>Downingia insignis</i> CAMPANULACEAE vpa	n SNH, c GV (Glenn to Stanislaus cos), MP; w NV	vernal pools, roadside ditches, lake margins
<i>Downingia laeta</i> CAMPANULACEAE vpa	MP; to s-c Can, MT, WY, UT	ditches, ponds, streams, vernal pools
<i>Downingia ornatissima</i> CAMPANULACEAE vpa	GV	vernal pools, roadside ditches
<i>Downingia ornatissima</i> var. <i>eximia</i>	ScV, n SnJV	habitats of sp.
<i>Downingia ornatissima</i> var. <i>ornatissima</i> CAMPANULACEAE vpa	ScV, n SnJV	habitats of sp.
<i>Downingia pulchella</i> CAMPANULACEAE vpa	s TEH, c&s ScV, n SnJV, s SnFrB	vernal pools, roadside ditches
<i>Downingia pusilla</i> (= <i>D. humilis</i>) CAMPANULACEAE vpa	NCoRI, s ScV, n&c SnJV; Chile	vernal pools and swales, roadside ditches, moist grasslands
<i>Downingia yina</i> CAMPANULACEAE vpa?	KR, CaR; to WA	boggy places near lakes, ponds, vernal pools, mtn meadows
<i>Draba verna</i> BRASSICACEAE gen	CA-FP, MP; circumboreal	open or disturbed areas
<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i> CRASSULACEAE vpa?	s CCo, SCo; n Baja	open, rocky slopes, often serpentine or clay-dominated
<i>Dudleya lanceolata</i> CRASSULACEAE gen	SCoR, TR, PR, DMtns; n Baja	rocky slopes
<i>Dudleya variegata</i> CRASSULACEAE gen	s SCo, s PR (San Diego Co); n Baja	dry hillsides, mesas
<i>Echinodorus berteroi</i> ALISMATACEAE vpa?	NCoRI, GV, CW, SW; to se US, SAm	ponds, ditches
<i>Elatine brachysperma</i> ELATINACEAE vpi?	CA; c&s US	muddy shores, shallow pools
<i>Elatine californica</i> ELATINACEAE vpa?	s NCoRH (Snow Mtn), GV; to WA	pools, ponds, rice fields, stream banks
<i>Elatine chilensis</i> ELATINACEAE vpa	n SNH, MP (Madeline Plains, Lassen Co, Sierra Valley, Plumas Co), PR; temp SAm	muddy shores of ponds; <i>E. gracilis</i> , SN (Little Truckee River, NV Co), vernal pools, probably should be included here
<i>Elatine heteranda</i> ELATINACEAE vpa?	NCoR, SN	pond edges
<i>Elatine rubella</i> ELATINACEAE vpa?	CA; widespread in w NAM	muddy shores, shallow vernal pools, ditches, rice fields
<i>Eleocharis acicularis</i> CYPERACEAE vpa?	CA-FP, MP; to se US, n Mex; circumboreal	marshes, meadows, riverbanks, vernal pools in sagebrush scrub to lodgepole-pine forest
<i>Eleocharis acicularis</i> var. <i>acicularis</i> CYPERACEAE vpa?	CA-FP; to se US, n Mex; circumboreal	habitats of sp.

<i>Eleocharis acicularis</i> var. <i>bella</i> CYPERACEAE vpa?	NW, CaR, SN, MP; to WA, n-c US, n Mex	marshes in sagebrush scrub to lodgepole-pine forest
<i>Eleocharis macrostachya</i> (<i>E. palustris</i>) CYPERACEAE vpi?	CA; temp, montane w hemisphere	marshes, pond margins, vernal pools, ditches
<i>Eleocharis montevidensis</i> CYPERACEAE gen	NW, CW, SW; to TX, SAm	moist, often sandy openings
<i>Eleocharis pachycarpa</i> * CYPERACEAE vpa?	n NCoRO (Humboldt Co), SN (Amador & El Dorado cos); NV; native to Chile	saltmarshes, vernal pools
<i>Eleocharis parishii</i> CYPERACEAE gen	CA (exc MP); to OR, NV, MN, n Mex	moist, often sandy openings
<i>Elymus glaucus</i> POACEAE gen	CA; to AK, Great Plains, n Mex	open areas, chaparral, woodland, forest
<i>Epilobium brachycarpum</i> ONAGRACEAE gen	CA-FP, (exc ChI), MP; to BC, SD, NM, also e Can; introd. to SAm	dry open woodland, grassland, roadsides
<i>Epilobium cleistogamum</i> ONAGRACEAE vpa?	SNF, GV, SCoRO	vernal pools, clay flats
<i>Epilobium densiflorum</i> ONAGRACEAE gen	CA-FP (exc SCo, ChI); to BC, MT, n Baja	streambanks, outwashes
<i>Epilobium minutum</i> ONAGRACEAE gen	NW, CaR, n&c SN, ScV, CW, MP; to BC, MT, w NV	dry open disturbed areas, vernal pools, often after fire
<i>Epilobium pallidum</i> ONAGRACEAE gen	CaR, nSNF, ScV, MP; to sw OR, ID	streambanks, moist slopes
<i>Epilobium pygmaeum</i> (<i>Boisduvalia glabella</i>) ONAGRACEAE vpi?	CA-FP (exc ChI, e TR), MP; to w Can, ND, UT, n Baja	vernal pools, clay mud flats
<i>Epilobium torreyi</i> ONAGRACEAE vpa?	NW (exc NCo), CaR, SN, GV, SnFrB, SCoRO, MP, sw DMoj; to BC, ne NV	streambanks, moist slopes
<i>Eremocarpus setigerus</i> EUPHORBIACEAE gen	CA-FP, w D; to WA	dry open often disturbed areas
<i>Erodium botrys</i> * GERANIACEAE gen	CA-FP; native to s Europe	dry open or disturbed sites
<i>Erodium cicutarium</i> * GERANIACEAE gen	CA; widespread US; native to Eurasia	open, disturbed sites, grassland, shrubland
<i>Erodium moschatum</i> * GERANIACEAE gen	CA-FP; native to Europe	open disturbed sites
<i>Eryngium alismaefolium</i> APIACEAE vpa	CaRH, MP; to OR, ID, NV	vernal pools, flooded meadows
<i>Eryngium aristulatum</i> APIACEAE vpi?	NCoR, SnFrB, SCoR, SCo; Baja	vernal pools, ditches, etc.
<i>Eryngium aristulatum</i> var. <i>aristulatum</i> APIACEAE vpa?	NCoR, SnFrB	vernal pools, lake shores, drying lakes, wet depressions
<i>Eryngium aristulatum</i> var. <i>hooveri</i> APIACEAE vpa?	s SnFrB, SCoR	vernal pools, lagunas
<i>Eryngium aristulatum</i> var. <i>parishii</i> APIACEAE vpi?	s SCo, PR (San Diego & Riverside cos); Baja; now apparently confined to mesas near San Diego, Santa Rosa Mesa	vernal pools, marshes
<i>Eryngium armatum</i> APIACEAE vpa?	NCo, CCo	depressions in coastal prairie, bluffs
<i>Eryngium castrense</i> APIACEAE vpa?	CaRF, n&c SNF, adjacent GV	vernal pools, wet depressions, pond margins
<i>Eryngium constancei</i> APIACEAE vpi	NCoR (Lake Co)	vernal pools in meadows
<i>Eryngium mathiasiae</i> APIACEAE vpa	MP	roadside ditches, wet depressions
<i>Eryngium pinnatisectum</i> APIACEAE vpa	near boundary of n&c SNF, adjacent GV (Amador, Calaveras, Sacramento, & Tuolumne cos)	vernal pools, wet depressions
<i>Eryngium racemosum</i> APIACEAE gen	n SnJV, adjacent SNF	seasonally flooded clay depressions in riparian scrub
<i>Eryngium spinosepalum</i> APIACEAE vpi	e SNJV, adjacent SNF	vernal pools, depressions

<i>Eryngium vaseyi</i> APIACEAE vpi/vpa	ScV, SCoRI, SCo	vernal pools, (alkaline) depressions
<i>Ferocactus viridescens</i> CACTACEAE gen	SCo (San Diego Co); Baja	sandy to rocky areas
<i>Frankenia salina</i> (= <i>F. grandifolia</i>) FRANKENIACEAE vpa?	GV, CCo, SCo, ChI, SNE, DMOj; to NV, Mex, SAm	seasonally flooded salt marshes, alkali flats, border of vernal pools
<i>Fritillaria liliacea</i> LILIACEAE gen	CW	rare; heavy soil, open hills and fields near coast
<i>Fritillaria pluriflora</i> LILIACEAE gen	NCoRI, n SNF, edges of ScV, s OR	rare; adobe soil of interior foothills
<i>Gastrium ventricosum</i> * POACEAE gen	CA-FP, MP; to OR, Can, ne US; native to Europe	open, gen dry, disturbed sites
<i>Geranium dissectum</i> * GERANIACEAE gen	CA-FP; to e NAM; native to Europe	open disturbed sites
<i>Geranium molle</i> * GERANIACEAE gen	CA-FP; widespread in NAM; native to Europe	open to shaded sites, disturbed ground
<i>Glyceria occidentalis</i> POACEAE gen	NCo, NCoRO, n SNH, ScV, CCo; to BC, ID	wet places
<i>Gnaphalium palustre</i> ASTERACEAE vpa?	most of CA (exc MP); to w Can, MT, NM	moist places (vernal pools, dry bed of marshes, edge of flooded plain)
<i>Gratiola ebracteata</i> SCROPHULARIACEAE vpa	n&c CA-FP; to BC, MT	wet muddy places
<i>Gratiola heterosepala</i> SCROPHULARIACEAE vpi	NCoRI, c SNF, ScV, MP	shallow water, margins of vernal pools
<i>Gratiola neglecta</i> SCROPHULARIACEAE vpa?	c NCo (Mendocino Co), w KR (Humboldt Co), CaRH, n&c SNH, MP	wet muddy places, vernal pools, sandbars
<i>Grindelia camporum</i> var. <i>bracteosum</i> ASTERACEAE gen	sw GV, s SCoRO, SCo, WTR, PR; Baja	clay or sandy roadsides, stream-banks, dry washes
<i>Grindelia camporum</i> var. <i>camporum</i> ASTERACEAE vpa?	NCoRI, GV, SnFrB, SCoRO, SW	sandy or saline bottomlands, fields, roadsides, dry margins of vernal pools, and similar vernal wet but summer dry places
<i>Grindelia nana</i> ASTERACEAE gen	CaR, MP, (introd elsewhere); to WA, MT, ID	dry, sandy hills, fields, roadsides
<i>Heliotropium curassavicum</i> BORAGINACEAE gen	CA; NV, AZ; subtrop, trop Am	moist to dry saline soils, vernal wet depressions, beds of vernal pools
<i>Hemizonia fitchii</i> ASTERACEAE gen	NW, CaRF, n&c SNF, n&c GV, SCoR, n ChI (S.C. Isl), n SnBr; sw OR	fields, open woodland
<i>Hemizonia fasciculata</i> ASTERACEAE gen	s CCo, s SCoRO, SW; to c Baja	coastal grassland, woodland
<i>Hemizonia increscens</i> ssp. <i>increscens</i> ASTERACEAE gen	CCo, SnFrB (uncommon), SCoR, n SCo, n ChI	coastal grassland, foothills
<i>Hemizonia parryi</i> ASTERACEAE gen	sw NCoR, w CW, w SW; nw Baja	seasonally wet (often saline or alkaline) grassland near coast
<i>Hemizonia parryi</i> ssp. <i>australis</i> ASTERACEAE gen	SCo; n Baja	seasonally moist (alkaline) grassland
<i>Hemizonia pungens</i> ASTERACEAE gen	CaRF, GV, SCoR, alien in SW; to WA	grassland, depressions, marshes
<i>Hemizonia pungens</i> ssp. <i>septentrionalis</i> ASTERACEAE gen	CARF, ScV; to WA	grassland, abundant on margins of drying vernal wet flats and drainages
<i>Hesperevax caulescens</i> ASTERACEAE vpa?	s SNF, n&c GV, sw PR	dry mud of vernal pools and flats
<i>Holocarpha virgata</i> ASTERACEAE gen	NCoRI, n&c SNF, GV, ne CW, c&s SCo	grassland
<i>Holosteum umbellatum</i> var. <i>umbellatum</i> CARYOPHYLLACEAE gen	KR, CaR, CCo; native to c, e, &s Europe	disturbed areas
<i>Hordeum brachyantherum</i> POACEAE gen	CA (exc D); to AK, Rocky Mtns, Mex, Eurasia	meadows, pastures, streambanks
<i>Hordeum brachyantherum</i> ssp. <i>californicum</i> POACEAE gen	CA-FP; OR	habitat of sp.

<i>Hordeum depressum</i> POACEAE vpa?	CA (exc mtns); to WA, ID	moist sites, vernal pools, gen. alkaline soils
<i>Hordeum intercedens</i> POACEAE vpa?	SW; nw Baja	vernal pools, dry saline streambeds, alkaline flats
<i>Hordeum murinum</i> ssp. <i>gussoneanum</i> (<i>H. geniculatum</i>)* POACEAE gen	CA (exc mtns); to BC, ID, AZ; native to Europe	dry to moist, disturbed sites
<i>Hordeum murinum</i> ssp. <i>glaucum</i> * POACEAE gen	CA; to BC, e US, n Mex; native to Europe	moist, gen disturbed sites
<i>Hordeum murinum</i> ssp. <i>leporinum</i> * POACEAE gen	range of <i>H. m.</i> ssp. <i>glaucum</i>	habitat of <i>H. m.</i> ssp. <i>glaucum</i>
<i>Horkelia bolanderi</i> ROSACEAE vpa	NCoRI (Colusa, Lake, & Menocino? cos)	edges of vernal wet places in pine forest
<i>Horkelia cuneata</i> ROSACEAE gen	CCo, SCoRO, SCo	old dunes, open chaparral
<i>Hutchinsia procumbens</i> BRASSICACEAE gen	CA (exc KR, SNH); to BC, Labrador, Baja, also Europe	alkali flats, saline seeps, shaded sites, sagebrush, juniper woodland
<i>Hypochaeris glabra</i> * ASTERACEAE gen	CA-FP; native to Europe	weed of disturbed places
<i>Idahoa scapigera</i> BRASSICACEAE gen	CaR, SnFrB (Mount Hamilton), NCoRI (Mount St. Helena), nSN, s SNF, SCoRI, GB; to BC, MT	moist ledges, slopes, meadows, foothills
<i>Isoetes howellii</i> ISOETACEAE vpi?	NCoR, CaRF, SNF, SnFrB, SCoR, SCo, PR; to WA, MT, UT	vernal pools, lake margins
<i>Isoetes nutallii</i> ISOETACEAE gen	NCoR, SaRF, SN, n SnJV, SnFrB, SCoRO, SCo, PR; to BC	seasonally wet soil, temporary streams
<i>Isoetes orcuttii</i> ISOETACEAE vpi	n SNH, GV, SCo, PR; Baja	vernal pools
<i>Ivesia aperta</i> ROSACEAE gen	n SNH, MP	great basin scrub, vernal moist meadows, vernal pools
<i>Ivesia sericoleuca</i> ROSACEAE vpa	n SNH	vernal pools, vernal moist meadows
<i>Juncus bufonius</i> JUNCACEAE vpa?	CA; more or less worldwide	moist (sometimes saline) open or disturbed places
<i>Juncus bufonius</i> var. <i>bufonius</i> JUNCACEAE vpa?	CA; more or less worldwide	moist (sometimes saline) open or disturbed places
<i>Juncus capitatus</i> * JUNCACEAE vpa?	CaRF, n SNF, GV; scattered in s-c US; native to Eurasia, n Afr	vernal pools
<i>Juncus kelloggii</i> JUNCACEAE vpa?	NCo, NoCR, ScV, CCo; to BC	damp sandy or clay soils, vernal pools, seeps, fields, meadows
<i>Juncus leiospermus</i> var. <i>ahartii</i> JUNCACEAE vpi	e ScV, ne SnJV (Butte & Calaveras cos)	vernal pool margins
<i>Juncus leiospermus</i> var. <i>leiospermus</i> JUNCACEAE vpa	n ScV, CaRF (Shasta, Tehama, & Butte cos)	habitat of sp.
<i>Juncus mexicanus</i> JUNCACEAE gen	CA (exc GV); to WA, CO, TX, SAm	coast to montane meadows
<i>Juncus occidentalis</i> (= <i>J. tenuis</i> var. <i>congestus</i>) JUNCACEAE gen	NCo, CCo, n & c SN; OR, NV, AZ	moist areas
<i>Juncus phaeocephalus</i> JUNCACEAE vpa?	NCo, n SNH, CCo, SnFrB, SCo, n ChI, SnBr, PR	moist places
<i>Juncus phaeocephalus</i> var. <i>phaeocephalus</i> JUNCACEAE vpa?	NCo, nSNH, CCo, SnFrB, SCo, n ChI, SnBr, PR	coastal meadows and borders of marshes
<i>Juncus rugulosus</i> JUNCACEAE vpa?	s SNF, CCo, TR, PR, DMtns	wet places
<i>Juncus tenuis</i> JUNCACEAE vpa?	NW, CW; and more or less worldwide	damp places
<i>Juncus tiehmii</i> JUNCACEAE vpa?	SN, SCoR, TR, PR; to OR, ID, NV, Baja	bare, moist granitic sand of seeps, streambanks, meadows
<i>Juncus triformis</i> JUNCACEAE vpa?	SN, SnJV, SCo, PR	vernal pools, granitic seeps

<i>Juncus uncialis</i> JUNCACEAE vpi?	KR, NCoRI, GV, SCoRO, SCo, MP; OR, NV	vernal pool margins, other drying places
<i>Juncus xiphioides</i> JUNCACEAE gen	CA; OR, AZ, Baja	wet places
<i>Lasthenia burkei</i> ASTERACEAE vpi	s NCoRI (s Mendocino, s Lake, & ne Sonoma cos)	vernal pools, wet meadows
<i>Lasthenia californica</i> (= <i>L. chrystostoma</i>) ASTERACEAE vpa?	CA-FP; w DMoj; sw OR, AZ, Mex.	many habitats, highly variable and abundant (e.g. vernal moist alkaline flats, grassy uplands)
<i>Lasthenia chrysantha</i> ASTERACEAE vpa	s ScV, SnJV	vernal pools, wet saline flats
<i>Lasthenia conjugens</i> ASTERACEAE vpi	formerly NCo, s ScV, SnFrB, SCo; now deltaic ScV (Napa & Solano cos)	vernal pools
<i>Lasthenia coronaria</i> ASTERACEAE vpa?	SCo, PR, w D; nw Baja	sunny, open places
<i>Lasthenia ferrisiae</i> ASTERACEAE vpi	ScV (2 stations), SnJV	vernal pools or wet saline flats
<i>Lasthenia fremontii</i> ASTERACEAE vpi/vpa	GV	vernal pools, wet meadows
<i>Lasthenia glaberrima</i> ASTERACEAE vpi?	NCoR, ScV, n SnJV, CW, MP (rare); to sw WA	vernal pools, wet places
<i>Lasthenia glabrata</i> ASTERACEAE vpa	NCoRI, Teh, ScV, n SnJV, SnFrB, SCoRO, SCo, n ChI (Santa Rosa Isl), PR, w DMoj	vernal pools
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i> ASTERACEAE vpa	Teh (1 station), s SCoRO, SCo, n ChI (Santa Rosa Isl), PR, w DMoj	vernal pools
<i>Lasthenia glabrata</i> ssp. <i>glabrata</i> ASTERACEAE vpa	NCoRI, ScV, n SnJV, SnFrB, n SCoRO	vernal pools
<i>Lasthenia platycarpa</i> ASTERACEAE vpa	ScV, n SnJV, SnFrB (very uncommon)	vernally moist alkali flats
<i>Layia chrysanthemoides</i> ASTERACEAE gen	NCo, NCoR, GV, CW	grassy or open heavy soil
<i>Layia fremontii</i> ASTERACEAE gen	c NCoR (Mendocino Co), CaRF, SNF, GV	grassy slopes in heavy soil
<i>Legenere limosa</i> CAMPANULACEAE vpi	s NCoR, s ScV, n SnJV, SnFrB (Santa Cruz Mtns)	wet areas, vernal pools
<i>Lemna miniscula</i> LEMNACEAE gen	CA exc MP; w US, SAm, Eur, n Asia	freshwater
<i>Lepidium dicryotum</i> BRASSICACEAE gen	CA (exc NW, SN); to WA, Baja	saline soils, dry streambeds, fields
<i>Lepidium dicryotum</i> var. <i>acutidens</i> BRASSICACEAE gen	CaR, GV, SW, MP; to WA, Baja	alkaline flats, streambeds, abundant on vernal moist grassy flats and near vernal pools
<i>Lepidium jaredii</i> ssp. <i>jaredii</i> BRASSICACEAE vpa?	ScoRI, SnSJV	alkali bottoms, slopes, washes
<i>Lepidium latipes</i> var. <i>heckardii</i> BRASSICACEAE vpa	s ScV (Yolo Co)	rare, alkaline flats, locally abundant in vernal moist alkaline fields
<i>Lepidium latipes</i> var. <i>latipes</i> BRASSICACEAE vpa?	NCo, NCoR, GV, CCo, SnFrB, SCoRI, SCo; Baja	alkaline soils, fields, vernal pools, grassland
<i>Lepidium nitidum</i> BRASSICACEAE vpa?	CA (exc e D); to c US	alkaline soils, flats, slopes, pools
<i>Lepidium nitidum</i> var. <i>nitidum</i> BRASSICACEAE vpa?	range of sp.	meadows, alkaline flats, vernal pools
<i>Lepidium oxycarpum</i> BRASSICACEAE gen	GV, CW; probably alien in BC	fields, vernal pool margins, alkaline flats
<i>Leymus triticoides</i> POACEAE gen	CA (exc D); to WA, Rocky Mtns, TX	moist, often saline, meadows
<i>Lilaea scilloides</i> JUNCAGINACEAE vpi?	NCo, NCoRI, SN, GV, CW, SCo, PR, GB; to Can, MT, Mex, Chile; naturalized in Australia	vernal pools, ditches, streams, ponds, lake margins
<i>Limnanthes alba</i> LIMNANTHACEAE vpa	s NCoR, CaRF, n&c SNF, s SNH, GV	winter-wet grasslands, woodlands, edges of vernal pools, ephemeral streams

<i>Limnanthes alba</i> ssp. <i>alba</i> LIMNANTHACEAE vpa	s NCoR, n&c SNF, GV	winter-wet grassland, woodland
<i>Limnanthes alba</i> ssp. <i>versicolor</i> LIMNANTHACEAE vpa	CaRF, n & c SNF, n SNH	habitats of sp.
<i>Limnanthes bakeri</i> LIMNANTHACEAE vpi?	c NCoRO (near Willits, Mendocino Co)	vernal pools, marshy margins
<i>Limnanthes douglasii</i> LIMNANTHACEAE vpa	NCo, NCoR, CaRF, c SNF, GV, CCo, SnFrB, SCoR; sw OR	wet meadows, edges of vernal pools, ephemeral streams
<i>Limnanthes douglasii</i> ssp. <i>douglasii</i> LIMNANTHACEAE vpa	NCo, NCoRO, CCo, SnFrB; sw OR	wet meadows
<i>Limnanthes douglasii</i> ssp. <i>nivea</i> LIMNANTHACEAE vpa	NCoR, SnFrB, SCoR	wet meadows, edges of vernal pools, ephemeral streams
<i>Limnanthes douglasii</i> ssp. <i>rosea</i> LIMNANTHACEAE vpa	NCoRI, CaRF, c SNF, GV	wet meadows, edges of vernal pools
<i>Limnanthes floccosa</i> LIMNANTHACEAE vpa	KR, NCoRI (near Kelseyville, Lake Co), CaR, ScV	moist meadows, vernal pools
<i>Limnanthes floccosa</i> ssp. <i>californica</i> LIMNANTHACEAE vpi	ScV (Butte Co)	vernal pool edges
<i>Limnanthes floccosa</i> ssp. <i>floccosa</i> LIMNANTHACEAE vpa	KR, CaR, NCoRI (near Kelseyville, Lake Co)	moist meadows, vernal pools
<i>Limnanthes gracilis</i> ssp. <i>parishii</i> LIMNANTHACEAE vpa	PR	moist meadows, ephemeral stream edges
<i>Limnanthes striata</i> LIMNANTHACEAE vpa?	KR, n&c SNF	vernal pools, stream edges
<i>Limnanthes vinculans</i> LIMNANTHACEAE vpi	s NCoRO (s Sonoma Co)	wet meadows, vernal pools
<i>Limosella aquatica</i> SCROPHULARIACEAE gen	CaR, SNH, CCo, SnFrB, SnBr, MP; to AK, e NAm, Eurasia	wet, muddy, periodically flooded places
<i>Lolium multiflorum</i> * POACEAE gen	CA-FP; to AK, e NAM; native to Europe	disturbed sites, abandoned fields
<i>Lolium perenne</i> * POACEAE gen	same as <i>L. multiflorum</i>	same as <i>L. multiflorum</i>
<i>Lotus corniculatus</i> * FABACEAE gen	CA (exc D); to n US; native to Eurasia	disturbed areas, vernal wet and marshy places
<i>Lotus purshianus</i> FABACEAE gen	CA (exc Dson); to Can, c US, Mex	coast, chaparral, mtn forests, water courses, roadsides, other weedy areas
<i>Lotus rubriflorus</i> FABACEAE gen	NCoRI (Colusa Co), SnFrB (Stanislaus Co)	oak woodland, grassland
<i>Lupinus arboreus</i> FABACEAE gen	NCo, CCo (probably native to Sonoma to Ventura cos, naturalized farther n)	coastal bluffs, dune, or more inland
<i>Lupinus nanus</i> FABACEAE gen	CA-FP (exc s SW); to BC	open or disturbed areas
<i>Lythrum hyssopifolium</i> * LYTHRACEAE vpa?	CA-FP, to e US; native to Europe	marshes, drying pond margins; vernal pools
<i>Lythrum tribracteatum</i> * LYTHRACEAE vpa?	GV, SnFrB, n MP; native to s Europe	wet areas, drying ponds, ditches, drying margins of vernal pools
<i>Madia sativa</i> ASTERACEAE gen	NW, CW, SW; to AK, n Baja; also sw SAM	coastal grassland
<i>Malvella leprosa</i> (= <i>Sida l.</i> var. <i>hederacea</i>) MALVACEAE gen	CA (esp GV); to WA, ID, TX, Mex, SAM	valleys, orchards, gen in saline soil
<i>Marsilea oligospora</i> MARSILEACEAE vpa?	KR, n SNH, MP; to WA, MT, WY	creek beds, flood basins, vernal pools, etc. (aquatic)
<i>Marsilea vestita</i> MARSILEACEAE vpa?	KR, NCoRI, CaR, s SNF, SNH, GV, CCo, SnFrB, SCoRO, SCo, WTR, SnBr, PR, MP, Dson; to w&c Can, Mex, also Peru	habitats more or less as <i>M. oligospora</i>
<i>Mentha pulegium</i> * LAMIACEAE vpa?	NW, SnJV, CW, SCo; to OR, e US; native to Europe	moist areas, ditches
<i>Microseris campestris</i> ASTERACEAE gen	c & s SNF, SnJV, e CW	open clay grasslands, often near vernal pools
<i>Microseris douglasii</i> ASTERACEAE gen	NCoR, SNF, Teh, GV, CW, SCo, ChI; OR, Baja	inland clay soils, grassland, often near vernal pools or serpentine outcrops

<i>Microseris douglasii</i> ssp. <i>douglasii</i> ASTERACEAE gen	range of sp. exc ChI	habitats of sp.
<i>Microseris douglasii</i> ssp. <i>platycarpha</i> ASTERACEAE gen	c&s SCo, s ChI; Baja	habitats of sp.
<i>Microseris douglasii</i> ssp. <i>tenella</i> ASTERACEAE gen	w-c GV, CW, SCo, n ChI	habitats of sp.
<i>Microseris elegans</i> ASTERACEAE gen	NCoR, SNF, GV, CW, SCo, ChI; Baja	gen. inland clay grassland, often near vernal pools
<i>Mimulus angustatus</i> SCROPHULARIACEAE vpa?	c NCoRO (Longvale, Mendocino Co), s NCoRI, CaRF, n SNF, SnJV (Pinehurst, Fresno Co)	vernally wet depressions
<i>Mimulus floribundus</i> SCROPHULARIACEAE gen	CA-FP (esp c & s SNF); to BC, SC, n Mex	crevices, seeps around granite outcrops, near streams
<i>Mimulus guttatus</i> SCROPHULARIACEAE vpa?	CA; to AK, w Can, Rocky Mtns, n Mex	wet places, gen terrestrial, some-times emergent or floating mats
<i>Mimulus latidens</i> SCROPHULARIACEAE vpa?	NCoRI, GV, CW, e SCo (Menifee Valley, w Riverside Co); Baja	vernally wet depressions
<i>Mimulus pulchellus</i> SCROPHULARIACEAE vpa?	n&c SNF (Calaveras, Tuolumne, & Mariposa cos)	vernally wet depressions
<i>Mimulus pygmaeus</i> SCROPHULARIACEAE vpa	s CaRH, n SNH (Lake Almanor region, Plumas Co), MP (Egg Lake, Modoc Co, w of Eagle Lake, Lassen Co); s OR	vernally wet depressions
<i>Mimulus tricolor</i> SCROPHULARIACEAE vpi	s NCoRO (s Sonoma Co); NCoRI, e GV, sw MP; OR	vernally wet depressions
<i>Monardella undulata</i> LAMIACEAE gen	CCo, SnFrB	dunes, sandy soils in sagebrush scrub
<i>Montia fontana</i> PORTULACACEAE vpa?	CA (exc D); to AK, e NAM; and more or less worldwide	ponds, streams, vernal pools, seeps, ditches
<i>Muhlenbergia richardsonis</i> POACEAE gen	KR, CaRH, SNH, SCoRO, TR, SnJt, GB, DMtns; to Can, ne US, Mex	open sites, moist meadows, talus slopes, along streams
<i>Muilla clevelandii</i> LILLIACEAE vpa	s SCo (sw San Diego Co)	mesa grassland, scrub edges
<i>Muilla maritima</i> LILLIACEAE vpa?	c&w NW, CW, SW, uncommon in c SNF, GV, w D; Baja	grassland, open scrub, woodland, in alkaline, granitic, or serpentine soils
<i>Myosurus apetalus</i> RANUNCULACEAE vpa?	KR, CaR, SN (exc Teh), ScV, SnBr, MP; to BC, MY, CO, Chile	wet places, vernal pools, marshes, shrubland
<i>Myosurus minimus</i> RANUNCULACEAE vpa	NCoR, CaRF, SNF, GV, SnFrB, s SCoRO, SCo, SnJt, MP; to BC, e US, Eurasia	wet places, vernal pools, marshes
<i>Myosurus sessilis</i> RANUNCULACEAE vpa?	GV; s OR	vernal pools, grassland
<i>Nama stenocarpum</i> HYDROPHYLLACEAE vpa?	SW; to TX, Mex	intermittently wet areas
<i>Navarretia atracyloides</i> POLEMONIACEAE vpa?	NCoR, SnFrB, SCoR, ChI, TR, PR; OR, Baja	open, rocky, or sandy areas
<i>Navarretia eriocephala</i> POLEMONIACEAE gen	n&c SNF, e ScV	heavy soil of seasonally wet flats
<i>Navarretia fossalis</i> POLEMONIACEAE vpi	s SCoRO (San Luis Obispo Co), SW; Baja	vernal pools, ditches
<i>Navarretia hamata</i> POLEMONIACEAE gen	SnFrB, SCoRO, SW; Baja	dry, sandy or rocky places in coastal or inland chaparral
<i>Navarretia heterandra</i> POLEMONIACEAE vpa	NCoRI, CaRF, w ScV, e SnFrB, SCoRI, MP; OR	heavy soil, vernal pools, wet or drying flats
<i>Navarretia intertexta</i> POLEMONIACEAE vpa?	KR, NCoR, CaR, SN, GV, SnFrB, SCoR, MP; to BC, MT, WY, CO, AZ, Baja	open wet areas, meadows, vernal pools
<i>Navarretia intertexta</i> ssp. <i>intertexta</i> POLEMONIACEAE vpa?	KR, NCoR, CaR, SNF, GV, SnFrB, SCoR; OR	habitat of sp.
<i>Navarretia intertexta</i> ssp. <i>propinqua</i> POLEMONIACEAE vpa?	CaR, SNH, MP; to BC, MT, WY, CO, AZ, Baja	habitat of sp.
<i>Navarretia leucocephala</i> POLEMONIACEAE vpi?	NCoRI, CaR, s SNH, GV, GB; to WA, NV	vernal pools
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i> POLEMONIACEAE vpi	NCoRI, w ScV	vernal pools

<i>Navarretia leucocephala</i> ssp. <i>leucocephala</i> POLEMONIACEAE vpi	GV; OR	vernal pools
<i>Navarretia leucocephala</i> ssp. <i>minima</i> POLEMONIACEAE vpi?	CaR, n SN, GB; to WA, UT	vernal pools
<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i> POLEMONIACEAE vpi	s NCoRI (Lake & Napa cos)	vernal pools
<i>Navarretia leucocephala</i> ssp. <i>plieantha</i> POLEMONIACEAE vpi	s NCoR (Lake & Sonoma cos)	vernal pools
<i>Navarretia myersii</i> ssp. <i>deminuta</i> POLEMONIACEAE vpi	NCoRI (1 site: Lake Co.)	vernal pools
<i>Navarretia myersii</i> ssp. <i>myersii</i> POLEMONIACEAE vpi	c SNF, c GV (4 sites: Sacramento, Amador, & Merced cos)	vernal pools
<i>Navarretia nigelliformis</i> POLEMONIACEAE vpi	SNF, GV, SCoRI	vernal pools, clay depressions
<i>Navarretia nigelliformis</i> ssp. <i>nigelliformis</i> POLEMONIACEAE vpi	range of sp.	habitat of sp.
<i>Navarretia nigelliformis</i> ssp. <i>radians</i> POLEMONIACEAE vpi	SCoRI	habitat of sp.
<i>Navarretia prostrata</i> POLEMONIACEAE vpa	w SnJV (Merced Co), SCoRI, c SCo (Los Angeles Co), PR (Santa Rosa Plateau)	alkali floodplains, vernal pools
<i>Navarretia squarrosa</i> POLEMONIACEAE gen	NCoR, n SNF (Sacramento, Amador cos), SnFrB, SCoR; to BC	open wet gravelly flats, slopes
<i>Navarretia tagetina</i> POLEMONIACEAE vpa?	n & c SNF, NCoRI, GV; to WA	open grassy flats, vernal pools
<i>Neostapfia colusana</i> POACEAE vpi	GV (Colusa, Merced, Solano, & Stanislaus cos)	vernal pools
<i>Odontostomum hartwegii</i> LILIACEAE vpa?	NCoRI, n&c SNF	clay, often serpentine soils
<i>Ophioglossum californicum</i> OPHIOGLOSSACEAE gen	n&c SNF, CCo, SCo; Mex	grassy pastures, chaparral, vernal pool margins
<i>Orcuttia californica</i> POACEAE vpi	SW (Los Angeles, Riverside, & San Diego cos); n Baja	vernal pools
<i>Orcuttia inaequalis</i> POACEAE vpi	SnJV (Fresno, Madera, Merced, Stanislaus, & Tulare cos)	vernal pools
<i>Orcuttia pilosa</i> POACEAE vpi	GV (Madera, Merced, Stanislaus, & Tehama cos)	vernal pools (rare)
<i>Orcuttia tenuis</i> POACEAE vpi	NCoRI (Lake Co), CaRF (Shasta & Tehama cos)	vernal pools
<i>Orcuttia viscida</i> POACEAE vpi	ScV (Sacramento Co)	vernal pools
<i>Parapholis incurva</i> * POACEAE gen	NCo, CCo, SCo, ChI; to BC, Mex; native to Europe	disturbed, well-drained soils of salt marshes, gen above high tide level
<i>Paronychia ahartii</i> CARYOPHYLLACEAE gen	CaRF, ScV	rare; well-drained, rocky outcrops, often vernal pool edges, volcanic uplands
<i>Parvisedum leiocarpum</i> CRASSULACEAE vpa	s NCoRI (Lake Co)	dry vernal pools, rocky depressions
<i>Parvisedum pumilum</i> CRASSULACEAE vpa?	s NCoRO, NCoRI, n & c SNF, GV	rock outcrops, clay soils, vernal pools
<i>Perideridia bolanderi</i> APIACEAE gen	NW, SN, GB; to WY, UT	meadows, scrub, pine forest, blue-oak woodland, summer-dry clay soil
<i>Perideridia bolanderi</i> ssp. <i>involucrata</i> APIACEAE gen	n & c SNF	blue-oak woodland, in summer dry clay soil
<i>Phacelia inundata</i> HYDROPHYLACEAE vpa	MP, OR, NV	alkaline flats, dry lake margins
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i> APIACEAE vpa?	s NCo (Sonoma Co), CCo (scarce s of Monterey Co), SCo	moist places in coastal flats, grassland, pine groves
<i>Phalaris caroliniana</i> * POACEAE gen	NCo, c SNF, CCo, SCoRO, SW; native to e US	disturbed areas, vernal pools
<i>Phalaris lemmonii</i> POACEAE vpa?	NCoRO, c SN, GV, SnFrB, SCoR, SCo	gen moist areas (shallow vernal pools), shrubland, woodland

<i>Phalaris paradoxa</i> * POACEAE vpa?	GV, SW; native to Medit Europe	disturbed areas
<i>Physalis lancifolia</i> * SOLANACEAE vpa?	GV, SnFrB, SCoRI, DSON; to TX, c Mex; native to SAM	wet places (e.g. dry bed of vernal pools), fields, waste places
<i>Pitularia americana</i> MARSILEACEAE vpa?	NCoRI, CaRF, n&c SNF, n SNH, GV, SCoR, SCo, WTR, PR; OR, Baja, c&se US, SAM	vernal pools, mud flats, lake margins, reservoirs, etc.
<i>Plagiobothrys acanthocarpus</i> BORAGINACEAE vpi	s ScV, SnJV, SCo (mesas near San Diego); Mex	vernal pools, moist clay soil
<i>Plagiobothrys austinae</i> BORAGINACEAE vpa?	CaRF, SNF, e ScV, ne SnJV	vernal pools, wet sites
<i>Plagiobothrys bracteatus</i> BORAGINACEAE vpi?	CA-FP (esp sw); sw PR, nw Mex	vernal pools, wet places in grassland, coastal sagescrub, chaparral
<i>Plagiobothrys glaber</i> BORAGINACEAE	GV, SCoR (extinct?)	alkaline grasslands and vernal moist areas
<i>Plagiobothrys greenei</i> BORAGINACEAE vpa?	NCoR, CaRF, SNF, ScV, n SnJV; OR	wet sites, grassland to woodland
<i>Plagiobothrys hispidulus</i> BORAGINACEAE vpa?	KR, SN, TR, PR, WA, WY, NV	moist or drying sites in mountains
<i>Plagiobothrys humistratus</i> BORAGINACEAE vpa?	GV (foothills)	vernal pools, wet places, grassland
<i>Plagiobothrys hystriculus</i> BORAGINACEAE vpa	sw ScV (Solano Co)	grassland, probably vernal pools, wet sites
<i>Plagiobothrys leptocladus</i> BORAGINACEAE vpi?	SW, w DMoj; to AK, c Can, Mex	gen. alkaline clay soils in vernal pools, wet places
<i>Plagiobothrys nothofulvus</i> BORAGINACEAE gen	CA-FP, rarely edge of D; to WA, Mex	grasslands, woodlands
<i>Plagiobothrys stipitatus</i> BORAGINACEAE vpa	CA-FP, GB; OR	vernal pools, wet sites
<i>Plagiobothrys stipitatus</i> var. <i>micranthus</i> BORAGINACEAE vpa?	CA-FP, GB; se OR	vernal pools, wet sites in grassland to conifer forests
<i>Plagiobothrys stipitatus</i> var. <i>stipitatus</i> BORAGINACEAE vpa	CA-FP (esp GV, NW), OR	vernal pools, wet sites in grassland
<i>Plagiobothrys strictus</i> BORAGINACEAE vpa	s NCoRI	moist sites near hot springs
<i>Plagiobothrys tener</i> BORAGINACEAE vpa?	NCoR, CaR, n SN, MP	moist meadows, stream banks in chaparral, oak woodlands, conifer forests
<i>Plagiobothrys trachycarpus</i> BORAGINACEAE vpa?	SnJV, SnFrB, SCo, WTR	vernal pools, wet places in grassland, scrub, chaparral, woodland
<i>Plagiobothrys undulatus</i> BORAGINACEAE vpi?	NCo, NCoRO, s ScV, CCo, SnFrB, SCoRO, SCo, WTR, PR	vernal pools, wet places
<i>Plantago elongata</i> (<i>P. bigelovii</i>) PLANTAGINACEAE vpa?	CA-FP (exc CaR, SN); to BC	saline and alkaline places, beaches, vernal pools
<i>Plantago erecta</i> PLANTAGINACEAE gen	CA-FP; to OR, Baja	sandy, clay, or serpentine soils, grassy slopes and flats, open woodland
<i>Plantago lanceolata</i> * PLANTAGINACEAE gen	CA-FP; native to Europe	weed of waste places, lawns, roadsides, margins of pools
<i>Pleuropogon californicus</i> POACEAE vpa?	NW, CARF, n & c SNF	wet places, redwood, oak forests
<i>Pleuropogon hooverianus</i> POACEAE vpi?	s NCo, n CCo	marshy areas, redwood groves
<i>Poa annua</i> * POACEAE gen	CA (esp near coast); more or less world- wide; native to Europe	disturbed moist ground, lawns, etc.
<i>Poa napensis</i> POACEAE vpa	se NCoRO (near Calistoga, Napa Co)	low sterile ground near hot springs
<i>Pogogyne abramsii</i> LAMIACEAE vpi	s SCo (San Diego Co)	vernal pools of coastal terraces
<i>Pogogyne douglasii</i> LAMIACEAE vpa	NCoRO, NCoRI, SNF, GV, CW	vernal pools, swales
<i>Pogogyne douglasii</i> ssp. <i>parviflora</i> LAMIACEAE vpi	NCoRO	vernal pools, swales

<i>Pogogyne floribunda</i> LAMIACEAE vpa	MP	vernal pools, seasonal lakes
<i>Pogogyne nudiuscula</i> LAMIACEAE vpi	s SCo (San Diego Co); Baja	vernal pools on coastal mesas
<i>Pogogyne serpylloides</i> LAMIACEAE vpa?	NCoR, n&c SNF, SnFrB, SCoRO	protected grassy areas
<i>Pogogyne zizyphoroides</i> LAMIACEAE vpi?/vpa	NCoRO, n&e SNF, GV, SnFrB; s OR	vernal pools, depressions
<i>Polycarpon tetraphyllum</i> * CARYOPHYLLACEAE gen	NCoRO, n SNF, ScV, CCo, SCo, SnGb; native to s Europe	disturbed areas, roadsides, shaded waste areas
<i>Polyctenium fremontii</i> BRASSICACEAE vpa?	GB; to ID, NV	saline soils, playas, lake margins, wet meadows
<i>Polygonum arenastrum</i> * POLYGONACEAE gen	CA; to e NAM, native to Europe	disturbed places
<i>Polygonum aviculare</i> * POLYGONACEAE gen	CA; to WA, Atlantic Coast; native to Europe	sandy beaches, salt marshes, near the coast and alkaline places in the interior
<i>Polygonum polygaloides</i> ssp. <i>polygaloides</i> POLYGONACEAE vpa?	CA; to BC, MT, CO, AZ	vernally moist places
<i>Polygonum polygaloides</i> ssp. <i>confertiflorum</i> POLYGONACEAE vpa?	NW, CaR, n SN, MP; to WA, MT, WY	vernal pools, wet meadows
<i>Polygonum polyglades</i> ssp. <i>esotericum</i> POLYGONACEAE vpa	MP (near Goose Lake, Modoc Co; Sierra Valley, s Plumas Co)	vernal pools, other seasonally wet places
<i>Polypogon interruptus</i> * POACEAE vpa?	CA; to Great Plains, sc US; native to SAm	streambanks, ditches, vernal pools
<i>Polypogon monspeliensis</i> * POACEAE vpa?	CA; NAM; native to s&w Europe	moist places, along streams, ditches
<i>Potamogeton pusillus</i> POTAMOGETONACEAE vpa?	NCo, KR, n SNF, SNH, GV, SnFrB, SCoR, SW (exc ChI). GB, DMOj; circumboreal	shallow water, ponds, lakes, reservoirs, ditches, vernal pools, slow streams
<i>Potamogeton pusillus</i> var. <i>pusillus</i> POTAMOGETONACEAE vpa?	range of sp.	habitat of sp.
<i>Psilocarphus brevissimus</i> ASTERACEAE vpi?	CA-FP, MP; to WA, MT, UT, nw Baja, s SAm	vernal pools and flats
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> ASTERACEAE vpi?	range of sp.	habitats of sp.
<i>Psilocarphus brevissimus</i> var. <i>multiflorus</i> ASTERACEAE vpi?	deltaic GV, SnFrB	vernal pools, flats
<i>Psilocarphus elatior</i> ASTERACEAE vpa?	KR, CaR, MP; sw BC, ID	vernally moist places
<i>Psilocarphus oregonus</i> ASTERACEAE vpi?	n CA-FP (rare and doubtful in s CA-FP), MP; to WA, ID, Baja?	vernal pools, rarely moist slopes
<i>Psilocarphus tenellus</i> ASTERACEAE vpi?	CA-FP; to BC, ID, nw Baja, c Chile	vernal pools, coastal dunes, dry disturbed soils
<i>Psilocarphus tenellus</i> var. <i>globiferus</i> ASTERACEAE vpi?	c&s SNF, SnJV, CCo, SnFrB; c Chile	vernal pools, coastal dunes
<i>Psilocarphus tenellus</i> var. <i>tenellus</i> ASTERACEAE gen	CA-FP; to BC, ID, nw Baja	dry slopes on gen. disturbed soil, rarely vernal pools
<i>Ranunculus aquatilis</i> RANUNCULACEAE vpa?	CA-FP; (exc ChI), GB; to AK, e NAM, Mex	ponds, lake margins, marshes, rivers
<i>Ranunculus bonariensis</i> var. <i>triseptalus</i> (= <i>R. alveolatus</i>) RANUNCULACEAE vpa	n & c SNF, e GV (exc s SnJV)	clay soils, vernal pools
<i>Ranunculus californicus</i> RANUNCULACEAE gen	CA-FP; s OR, Baja	grassland, oak woodland, mixed-evergreen or coniferous forest
<i>Ranunculus lobbii</i> RANUNCULACEAE vpa?	NCo, s NCoR, CCo, SnFrB; to BC	shallow water, vernal pools, oak woodland, mixed evergreen or redwood forest

<i>Ranunculus muricatus</i> * RANUNCULACEAE vpa?	NW, CaR, SNF, GV, SnFrB, SCoRO; to WA, se US, native to Europe	wet fields, ditches, vernal pools
<i>Ranunculus orthorhynchus</i> var. <i>bloomeri</i> RANUNCULACEAE vpa?	NCo, NCoR, deltaic GV, CCo, SnFrB; OR	meadows, wet open areas, shrubland, woodland, or forest
<i>Rorippa curvisiliqua</i> BRASSICACEAE gen	CA-FP; to AK, Rocky Mtns	uncommon, streambanks, seepage areas, lake shores
<i>Rorippa nasturtium-aquaticum</i> BRASSICACEAE gen	CA-FP; temp worldwide	aquatic: common in quiet water, streams, springs, marshes, lake margins, wet banks
<i>Rotala ramosior</i> LYTHRACEAE vpa?	NCoRI, n&c SN, GV; to WA, e US, SAM	irrigated fields, lake and pond margins, streams
<i>Rumex acetosella</i> (=R. <i>angiocarpus</i>)* POLYGONACEAE gen	GB; to Can, c US, TX	lake shores, playas, wet depressions
<i>Rumex crispus</i> * POLYGONACEAE gen	CA; NAm, native to Eurasia	disturbed places; vernal pools
<i>Rumex dentatus</i> * POLYGONACEAE vpa?	n SnJV (possibly the only US site); native to Eurasia	wet places (common on edges of vernal pools, seasonally flooded marshes), rice fields
<i>Rumex pulcher</i> * POLYGONACEAE gen	CA; native to Medit.	disturbed places
<i>Rumex salicifolius</i> var. <i>lacustris</i> POLYGONACEAE vpa?	GB (esp MP); s OR, NV	beds, shores of more or less salty lakes
<i>Sagina decumbens</i> ssp. <i>occidentalis</i> CARYOPHYLLACEAE vpa?	NW, n & c SN, GV, CCo, SCo, ChI, PR; to BC	dry streams, chaparral, grassy areas, rock outcrops, vernal pools
<i>Sagittaria sanfordii</i> ALISMATACEAE vpa?	n NCo(Del Norte Co), GV (where mostly extirpated), n SCo(Ventura Co, now extirpated)	ponds, ditches
<i>Senecio vulgaris</i> * ASTERACEAE gen	CA (exc D); native to Eurasia	gardens, farmlands, other disturbed sites
<i>Sesuvium verrucosum</i> AIZOCEAE gen	GV, SCoRO, SCo WTR, PR, SNE, D; to OR, KS, SAM	moist or seasonally dry flats, margins of gen saline wetlands
<i>Sibara virginica</i> BRASSICACEAE vpa?	GV, to e US, Baja	borders of vernal pools, streambanks, open ground
<i>Sidalcea calycosa</i> ssp. <i>calycosa</i> MALVACEAE vpa	NCoRO, CaRF, SNF, n SnFrB	wet places esp. vernal pools, swales
<i>Sidalcea hirsuta</i> MALVACEAE gen	NCoR, CaRF, n&c SNF, GV	vernally wet places, grassland, or open woodland
<i>Silene gallica</i> * CARYOPHYLLACEAE gen	CA-FP; to BC, eUS; native to Europe	fields, disturbed areas
<i>Soliva sessilis</i> * ASTERACEAE gen	NW, SNF, CW, SW, expected elsewhere; native to SAM	disturbed areas, esp hard-packed paths, roadsides, lawns
<i>Spergularia bocconii</i> * CARYOPHYLLACEAE gen	c SNF, GV, CCo, SCo, s ChI; OR; native to sw Eur. Medit.	salt marshes, alkaline areas, sandy soils; dessicated pools
<i>Spergularia macrotheca</i> var. <i>leucantha</i> CARYOPHYLLACEAE vpa?	GV, SnFrB, SCoRO, SCo, DMoj	alkaline soils, flood plains, vernal pools and meadows, marshy ground
<i>Spergularia macrotheca</i> var. <i>longistyla</i> CARYOPHYLLACEAE vpa?	NCo, NCoRI, GV	alkaline marshes, mud flats, meadows, hot springs
<i>Spergularia marina</i> CARYOPHYLLACEAE gen	NCo, NCoRO, c SNF, GV, CCo, SnFrB, SCo, ChI, PR, D; to WA, e US, SAM; Eurasia	mudflats (of drying vernal pools and ponds), alkaline fields, sandy coasts or river bottoms, salt marsh
<i>Spergularia rubra</i> * CARYOPHYLLACEAE gen	NW, CaR, c SNF, n&c SNH, ScV, CW, SCo, SnGb, PR; to BC, e NAm, SAM; native to Europe	open forests, gravelly glades, meadows, mud flats, disturbed areas
<i>Spergularia villosa</i> * CARYOPHYLLACEAE gen	NCoRO, nSNF, ScV, CCo, SCoRI, s ChI; Baja; native to s SAM	sandy slopes and bluffs, clay ridges and plains, disturbed areas; dessicated pools
<i>Sporobolus airoides</i> POACEAE gen	SNF, Teh, s ScV, SnJV, s SCoRO, SW, s SNE, D; to e WA, c&s US, Mex	seasonally moist alkaline areas
<i>Stachys ajugoides</i> LAMIACEAE vpa?	CA; to BC, Baja	gen moist places; sometimes dry hillsides, many communities
<i>Stellaria media</i> * CARYOPHYLLACEAE gen	NW, CaRH, c SNF, GV, CCo, SnFrB, SCo, ChI, DSon; native to sw Europe	oak woodlands, meadows, disturbed areas

<i>Taeniatherum caput-medusae</i> (= <i>Elymus c.-m.</i>) POACEAE gen	NCoR, CaR, SNF, GV, n SCo, expected elsewhere; to WA, Rocky Mtns; native to Europe	open ground, CA ranges
<i>Trichocoronis wrightii</i> var. <i>wrightii</i> * ASTERACEAE vpa?	GV, SCo; native to s TX, ne Mex	moist places
<i>Trichostema austromontanum</i> ssp. <i>compactum</i> LAMIACEAE vpa?	SnJt (Hidden Lake)	montane vernal
<i>Trichostema lanceolatum</i> LAMIACEAE gen	CA-FP; OR, Baja	dry open, gen disturbed
<i>Trichostema laxum</i> LAMIACEAE gen	NW	gravelly streambank
<i>Trichostema rubisepalum</i> LAMIACEAE gen	s NCoRI (Napa Co), , SCoRI (c SNF (Tuolumne & Mariposa cos)	gravelly streambeds
<i>Trifolium depauperatum</i> FABACEAE gen	NCoR, CaRF, SNF, n&c SNH, Teh, GV, CW, SCo, ChI, PR; w NAM, SAM	salt marshes, grassland, woodlands, openings, wet ditches, roadsides, other open alkaline or spring-mo
<i>Trifolium depauperatum</i> var. <i>amplectens</i> FABACEAE gen	GV, SnFrB; to BC	grasslands, coastal woodlan
<i>Trifolium variegatum</i> FABACEAE vpa?	CA-FP, SNE; sporadic to BC, MT, CO, AZ, Baja	most variable of CA clovers, wet sites, to forests and woodlan
<i>Triphysaria eriantha</i> SCROPHULARIACEAE gen	CA-FP, sw OR	grassland, foothills, coastal field
<i>Triphysaria pusilla</i> SCROPHULARIACEAE gen	NCoR, c SNF, CW; to BC	grassland
<i>Triphysaria versicolor</i> ssp. <i>faucibarbata</i> SCROPHULARIACEAE gen	NCoR	grassland
<i>Triteleia hyacinthina</i> (<i>Brodiaea h.</i>) LILIACEAE vpa?	NW, CaR, SN, GV, n&c CW; to BC, ID	grassland, vernal wet meadows
<i>Triteleia peduncularis</i> LILIACEAE vpa?	NW, n&c CW	wet grassland, vernal streams and ponds, often serpentine
<i>Tuctoria greenei</i> POACEAE vpi	GV (Butte, Fresno, Madera, Merced, San Joaquin, Stanislaus, Tehama, & Tulare cos)	vernal pools (rare)
<i>Tuctoria mucronata</i> POACEAE vpi	sw ScV (Solano Co)	vernal pools, grassland
<i>Verbena bracteata</i> VERBENACEAE gen	CaR, GV, SCoR, SW, GB, D; to BC, e NAM, n Mex	open disturbed places, pond or lake margins
<i>Verbena lasiostachys</i> var. <i>scabrida</i> (= <i>V. robusta</i>) VERBENACEAE gen	s NW, s SNF, Teh, CW, SCo, ChI (exc San Clemente Island), WTR, w PR; Baja	open dry to wet places
<i>Veronica peregrina</i> ssp. <i>xalapensis</i> SCROPHULARIACEAE vpa?	CA-FP; to w Can, Mex, SAM	moist places (like floor of drying vernal pools)
<i>Vulpia bromoides</i> * POACEAE gen	CA-FP; to e US; native to Europe	dry disturbed places, coastal-sage scrub, chaparral
<i>Vulpia myuros</i> * POACEAE gen	CA-FP, D; worldwide; probably native to Europe	generally open places, sandy soils
<i>Vulpia myuros</i> var. <i>hirsuta</i> * POACEAE gen	CA-FP, uncommon in D; worldwide; native to Europe	open places, hillsides, washes
<i>Vulpia myuros</i> var. <i>myuros</i> * POACEAE gen	CA-FP; worldwide; native to Europe	open places, hillsides, washes, or vernal moist sites in chaparral
<i>Vulpia octoflora</i> POACEAE gen	CA; widespread in Am, Europe	sandy to rocky soils, open sites
<i>Xanthium strumarium</i> ASTERACEAE gen	CA-FP, D; worldwide	disturbed areas
<i>Zannichellia palustris</i> ZANNICHELLIACEAE gen	CA; more or less worldwide	streams, ponds, ditches, lakes

* = non-native species

+ = exceptional/ rare occurrence

[] = may be extirpated from its former representative region