The Weed Flora of California: A Checklist

James P. Smith

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"What is a weed?  
A plant whose virtues have not yet been discovered."  
(Ralph Waldo Emerson)

"A weed is more than a flower in disguise."  
(James Russell Lowell)

"Whatever countries beyond the seas we may visit, in the temperate  
regions of the globe, we find that their vegetation has been  
invaded, and in many cases profoundly modified by  
immigrant plants from other countries...."  
(Sir Joseph Dalton Hooker)

INTRODUCTION

The word itself comes from woëd, Old English for an herb or grass. It is  
also applied to articles of clothing, as a common name for marijuana, and  
as an act of removing unwanted plants, etc.

A plant is typically considered a weed if it: (1) thrives outside its natural  
range; (2) appears without being planted or cultivated; (3) grows where we  
do n’t want it to grow; (4) is not easily controlled or eradicated; (5)  
interferes with agriculture, horticulture, and other human activity; (6) out  
competes for light, nutrients, etc. and replaces the native flora; (7)  
appears to be useless or undesirable; and (8) it is ugly.

Weeds also tend to exhibit a syndrome of biological traits, including the  
ability to: (1) reproduce sexually and/or asexually; (2) germinate early in  
the season; (3) produce a large number of seeds; (4) germinate, thrive,  
and set seed in diverse, and especially disturbed habitats; (5) be  
unpalatable or even toxic to herbivores; and (6) persist from year to year,  
sometimes via seed banks in the soil.

Many of the plants that we encounter in our daily lives are often weeds or  
ornamentals. Think of the fields of bright yellow weedy mustards in our  
early spring flora. We also plant them to prevent or retard erosion.

Who decides whether a particular plant is a weed? As is so often the case,  
it depends on who you ask. Everyone from a homeowner tending a garden  
or lawn to the federal government has an opinion. Of course, we rely on  
the expert opinion of botanists, agronomists, and horticulturists. There  
are also professional organizations, such as the California Weed Science  
Society and the Weed Science Society of America. The WSSA has  
identified 2847 weedy species.

It is worth noting that not all of our weeds are alien to California. Of the  
693 species listed in Robbins et al. (1970), 256 (37%) were indigenous.  
Although this list deals only with vascular plants (lycophytes, ferns,  
conifers, and flowering plants), a few algal species have also been  
recognized as weeds.

Generic names used by the U.S. Department of Agriculture and the  
California Department of Food and Agriculture are shown in parentheses  
when they differ from currently accepted nomenclature.
The United States Department of Agriculture. Under the provisions of the 1974 Federal Noxious Weed Act of 1974, the Secretary of Agriculture is authorized to declare that a plant is, to use its legal title, a noxious weed, which is defined as "... any plant or plant product that can directly or indirectly injure or cause damage to crops (including nursery stock or plant products), livestock, poultry, or other interests of agriculture, irrigation, navigation, the natural resources of the United States, the public health, or the environment." [Coded as 1]

There can be economic impact on property owners where these noxious weeds occur. They may be required to eradicate the plants and can be fined if they fail to do so. If you move a federal noxious weed from one location to another, you can be fined up to $1000, imprisoned for up to one year, or both.

The California Department of Food and Agriculture. Under California law, the director may designate "... any species of plant that is, or is liable to be, troublesome, aggressive, intrusive, detrimental, or destructive to agriculture, silviculture, or important native species, and difficult to control or eradicate, which the director, by regulation ... to be a noxious weed. In determining whether or not a species shall be designated a noxious weed for the purposes of protecting silviculture or important native plant species, the director shall not make that designation if the designation will be detrimental to agriculture." [Coded as 2]

The California Invasive Plant Council. The Cal-IPC was formed in 1992. Its mission "... is to protect California's lands and waters from ecologically-damaging invasive plants through science, education and policy." Its inventory includes not only plants that currently cause damage in California, but those that are likely to become invasive. [Coded as 3]

The Invasive Species Council of California. The ISCC was established in 2009 as an interagency state council. It defines an invasive species as "non-native organisms which cause economic or environmental harm." Humans, domestic livestock and non-harmful exotic organisms are excluded. [Coded as 4]

Weeds of California and Other Western States. This two volume comprehensive treatment by Joseph M. DiTomaso and Evelyn A. Healy contains detailed descriptions and outstanding photographs, many of them very useful close-ups. [Coded as 5]

Most of the plants derived from these sources are common. A few are known from only one or a few sites, and others have not been collected in recent years. I have included plants placed on "watch lists," but have excluded those not known to be currently present in California.

The criteria used by the U. S. D. A. and the C. D. F. A. clearly emphasize a plant's negative economic impact on agriculture. Other entities used harm to the environment, especially to natural areas.

I have taken the liberty of adding some plants based on my own botanical peregrinations. My view of weediness is conceptually similar to the authors of sources 3 through 5. I should admit that I am more familiar with the plants in northwestern California and that I have an inordinate fondness for grasses, even the weedy ones. [Coded as 6]

Alternative generic names, either from the traditional literature or recent publications, are shown in parentheses.

### NUMERICAL CONSPECTUS

<table>
<thead>
<tr>
<th>Source</th>
<th>Number of Plants*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States Dept. of Agriculture</td>
<td>33</td>
</tr>
<tr>
<td>California Dept. of Food &amp; Agriculture</td>
<td>179</td>
</tr>
<tr>
<td>California Invasive Plant Council</td>
<td>301</td>
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<tr>
<td>Invasive Species Council of California</td>
<td>372</td>
</tr>
<tr>
<td>DiTomaso &amp; Healy</td>
<td>406</td>
</tr>
<tr>
<td>JPS (not on other lists)</td>
<td>13</td>
</tr>
</tbody>
</table>

* Includes plants on watch lists, but excludes non-vasculars and species not currently known to be present in California.
CERATOPTERIS THALICTROIDES - water sprite - 2
EQUISETUM ARVENSE - field horsetail - 5
EQUISETUM HYMENALE - scouring-rush - 5
PTERIDIDIUM AQUILINUM - bracken fern - 5
SALVINIA MOLESTA - giant salvinia, kariba weed - 1, 4

CUPRESSUS MACROCARPA - Monterey cypress - 3
JUNIPERUS OCCIDENTALIS - western juniper - 5
PINUS RADIATA (CULTIVARS) - Monterey pine - 3

CLOVER FAMILY

ARACHIDACEAE — Cashew Family
SCHINUS MOLLE - Peruvian pepper tree - 3, 4, 5
SCHINUS TEREBINTHIFOLIUS - Brazilian pepper tree - 3, 4, 5
TOXICODENDRON DIVERSILABUS - Pacific poison-oak - 5
Amsinckia menziesii var. menziesii • Menzies' fiddleneck • 5
Anchusa arvensis • annual bugloss • 4
Anchusa officinalis • common bugloss • 4
Cynoglossum officinale • hound's-tongue • 3, 4, 5
Echium candicans • pride-of-Madeira • 3, 4, 5
Echium plantagineum • Paterson's curse • 4, 5
Heliotropium amplexicaule • clasping heliotrope • 3
Heliotropium curassavicum • seaside heliotrope • 5
Heliotropium europaeum • European heliotrope • 5
Myosotis latifolia • broad-leaved forget-me-not • 3, 4, 5
Symphytum asperum • rough or prickly comfrey • 2, 4, 5
Symphytum officinale • common comfrey • 5

Buddlejaceae — Summer-Lilac Family
Buddleja davidii • summer-lilac, butterfly bush • 4

Cabombaceae — Fanwort Family
Cabomba caroliniana • Carolina fanwort • 2, 4

Cannabaceae — Hemp Family
Cannabis sativa • marijuana, pot, weed • 5

Caryophyllaceae — Carnation or Pink Family
Carduus acanthoides • plumeless thistle • 2, 3, 4, 5
Carduus nutans • musk thistle • 2, 3, 4, 5
Carduus pycnocephalus • Italian thistle • 2, 3, 4, 5
Carduus tenuiflorus • slender-flowered thistle • 2, 3, 4, 5
Carthamus creticus • smooth distaff thistle • 2, 4
Carthamus lanatus • woolly distaff thistle • 2, 3, 4
Carthamus leucocaulus • white-stemmed distaff thistle • 2, 4
Carthamus oxyacantha • jeweled distaff thistle • 1, 4
Centauraeaiebersteinii • spotted knapweed • 5
Centauraea calcitrapa • purple star thistle • 2, 3, 4
Centauraea cyanus • bachelor's button, corn flower • 6
Centauraea debeauvii • meadow knapweed • 4
Centauraea diffusa • diffuse knapweed • 2, 3, 4, 5
Centauraea diluta • North American knapweed • 3
Centauraea iberica • Iberian star thistle • 2, 4, 5
Centauraea jacea • brown knapweed • 2, 4
Centauraea melitensis • tocalote • 2, 3, 4, 5
Centauraea solstitialis • yellow star thistle • 2, 3, 4, 5
Centauraea stoebe ssp. micranthas • spotted knapweed • 2, 4
Centauraea sulphurea • Sicilian knapweed • 2, 4, 5
Centauraea virgata ssp. squarrosa • squarrose knapweed • 5
Chondrilla juncea • skeletonweed • 2, 3, 4, 5
Chrysanthemoides monilifora ssp. monilifora • brother berry • 3
Chrysanthemum coronarium • crown daisy • 3, 4
Cichorium intybus • chicory • 4, 5
Cirsium arvense • Canada thistle • 2, 3, 4, 5
Cirsium japonicum • Japanese thistle • 2
Cirsium ochrocentrum • yellow-spined thistle • 2, 4, 5
Cirsium undulatum • wavy-leaved thistle • 2, 4, 5
Cirsium vulgare • bull thistle • 2, 3, 4, 5
Conyza bonariensis • asthma weed • 4, 5
Conyza canadensis • horse weed • 5
Cotula coronopifolia • brass buttons • 3, 4, 5
Crepis capillaris • smooth hawk's-beard • 5
Crupina vulgaris • bearded creeper • 1, 2, 3, 4, 5
Cynara cardunculus ssp. flavescens • artichoke thistle • 2, 3, 4, 5
Delairea odorata • Cape ivy, German ivy • 2, 3, 4, 5
Ditrichia graveolens • stinkwort • 2, 3, 4
Galinsoga parviflora • small-flowered galinsoga • 5
Galinsoga quadriradiata • hairy galinsoga • 5
Gazania linearis • treasure flower • 3
Glebionis (Chrysanthemum) coronaria • crown daisy • 3, 4
Gnaphalium luteo-album • everlasting cudweed • 5
Gnaphalium purpureum • purple cudweed • 5
Grindelia squarrosa • curly-cupped gumweed • 5
Helianthus annuus • common sunflower • 5
Helianthus ciliaris • blueweed • 2, 4, 5
Helianthus tuberosus • Jerusalem-artichoke • 3
Helichrysum petiolare • licorice plant • 3, 4
Helminthotheca echioides • bristly ox-tongue • 3, 4, 5
Hieracium aurantiacum • orange hawkweed • 5
Holocarpha virgata • virgate tarweed • 5
Hypochaeris glabra • smooth cat's-ear • 3, 4, 5
Hypochaeris radicata • rough cat's-ear • 3, 4, 5
Lactuca saligna • willow-leaved lettuca • 5
Lactuca serriola • prickly lettuce • 3, 4, 5
Leucanthemum vulgare • ox-eye daisy • 3, 4, 5
Logfia filagoideae • California cottonrose • 6
Logfia gallica • narrow- or dagger-leaved cottonrose • 6
Matricaria (Chamomilla) discoidea • pineapple weed • 5
Oncosiphon piluliferum • stinknet • 3
Onopordum acanthium • Scotch thistle • 2, 3, 4, 5
Onopordum illyricum • illyrian thistle • 1, 2, 4, 5
Onopordum tauricum • Taurian thistle • 2, 4, 5
Parthenium hysterophorus • Santa Maria feverfew • 2
Rhagadiolius stellatus • star endive • 2
Scolymus hispanicus • golden thistle • 2, 4
Senecio glomeratus • Australian fireweed •
Senecio jacobaea • stinking willie • 2, 3, 4, 5
Senecio linearifolius • narrow-leaved ragwort • 2, 4
Senecio squalidus • Oxford ragwort • 2, 4
Senecio vulgaris • old-man-in-the-spring • 3, 4, 5
Silybum marianum • milk or blessed thistle • 3, 4, 5
Soliva sessilis • lawn or field burr weed • 4, 5
Sonchus arvensis • perennial sow thistle • 2, 4
Sonchus asper • spiny sow thistle • 5
Sonchus oleraceus • annual sow thistle • 5
Stephanomeria exigua • small wire-lettuce • 5
Tanacetum parthenium • feverfew • 5
Tanacetum vulgare • common tansy • 3, 4, 5
Tragopogon dubius • western salsify • 5
Tragopogon porrifolius • common salsify • 5
Volutaria canriensis • Canary Island knapweed • 2
Xanthium spinosum • spiny cocklebur • 5
Xanthium strumarium • rough cocklebur • 5

Convolvulaceae — Bindweed Family
Convolvulus arvensis • field bindweed • 2, 4, 5
Cressa truxiliensis • alkali weed • 5
Cuscuta approximata • alfalfa dodder • 4
Cuscuta japonica • Japanese dodder • 4
Cuscuta reflexa • giant dodder • 4, 5
Cuscuta spp. (non-natives) • dodders • 1, 2
Ipomoea aquatica • swamp morning glory • 1, 4
Ipomoea indica • ocean-blue morning-glory • 3
Ipomoea nil • Japanese morning glory • 5
Ipomoea purpurea • tall morning glory • 5
Ipomoea triloba • three-cornered morning glory • 4

Cruciferae (Brassicaceae) — Mustard Family
Berteroa incana • hoary alyssum • 2
Brassica napus • rapeseed mustard • 5
Brassica nigra • black mustard • 3, 4, 5
Brassica rapa • field mustard • 3, 4, 5
Brassica tournefortii • Saharan mustard • 3, 4, 5
Brassica vulgaris • yellow rocket • 5
Capsella bursa-pastoris • shepherd's-purse • 4, 5
Cardamine hirsuta • hairy bitter cress • 5
Cardamine bulbosa • little bitter cress • 5
Carriechtera annua • Ward's weed • 3
Chorispora tenella • purple mustard • 2, 5
Cunicula monensis • star mustard • 2
Coronopus didymus • lesser swine cress • 5
Descurainia sophia • tansy mustard, flix weed • 3, 4, 5
Hesperis matronalis • dame's rocket • 4
Hirschfeldia incana • short-podded mustard • 3, 4, 5
Isatis tinctoria • dyer's woad • 2, 3, 4, 5
Lepidium appelianum • globe-podded hoary cress • 2, 3, 4, 5
Lepidium campestre • field pepper weed • 5
Lepidium chalepensis • lens-podded hoary cress • 2, 3, 4, 5
Lepidium coronopus • swine cress • 2, 4
Lepidium draba • heat-podded hoary cress • 2, 3, 4, 5
Lepidium latifolium • perennial pepper-grass • 2, 3, 4, 5
Lepidium perfollatum • clasping pepper weed • 5
Lobularia maritima • sweet-alyssum • 3, 4
Raphanus raphanistrum • wild radish • 4, 5
Raphanus sativus • radish • 3, 4, 5
Rorippa austriaca • Austrian field cress • 2, 4, 5
Rorippa sylvestris • creeping yellow field cress • 2, 4, 5
Sinapis arvensis • charlock, wild mustard • 3, 4, 5
Sisymbrium altissimum • tall tumble mustard • 5
Sisymbrium irio • London rocket • 3, 4, 5
Sisymbrium officinale • hedge mustard • 5
Thlaspi arvense • field penny cress • 5

Cucurbitaceae — Squash Family
Citrullus melon • citron melon • 5
Cucumis melo var. dudaim • dudaim melon • 2, 4
Cucumis myriocarpus • paddy melon • 2, 4

Cyperaceae — Sedge Family
Carex pendula • drooping sedge • 3
Cyperus difformis • variable flat sedge • 4, 5
Cyperus eragrostis • tall flat sedge • 5
Cyperus esculentus • yellow nutsedge • 2, 5
Cyperus rotundus • purple nutsedge • 2, 4, 5
Kyllingia brevifolia • green kyllingia • 5

Dipsacaceae — Teasel Family
Dipsacus fullonum • common teasel • 3, 4, 5
Dipsacus sativus • fuller's teasel • 3, 4, 5
Scabiosa atropurpurea • mourning bride • 3

Elaeagnaceae — Oleaster Family
Elaeagnus angustifolia • Russian-olive • 3, 4, 5

Ericaceae — Heath Family
Erica lusitanica • Spanish heath • 3

Euphorbiaceae — Spurge Family
Croton (Eremocarpus) setigera • turkey mullein • 5
Euphorbia cyparissias • cypress spurge • 4
Euphorbia dendroides • tree spurge • 2
Euphorbia dentata • toothed spurge • 4
Euphorbia graminea • grass-leaved spurge • 2
Euphorbia lathyris • caper or gopher spurge • 5
Euphorbia maculata • spotted spurge • 5
Euphorbia myrsinites • myrtle spurge • 4
Euphorbia nutans • nodding spurge • 5
Euphorbia oblongata • oblong spurge • 2, 3, 4, 5
Euphorbia peplus • petty spurge • 5
Euphorbia prostrata • prostrate spurge • 5
Euphorbia serpens • creeping spurge • 5
Euphorbia serratula • serratula spurge • 2, 4, 5
Euphorbia terracina • carnation spurge • 1, 2, 3, 4
Euphorbia virgata • leafy or green spurge • 2, 3, 4, 5
Mercurialis ambigua • Spanish mercury • 2
Ricinus communis • castor bean • 3, 4, 5
Triadica (Sapium) sebifera • Chines tallow tree • 3, 4, 5

Geraniaceae — Geranium Family
Erodium botrys • broad-leaved filaree • 4, 5
Erodium cicutarium • red-stemmed filaree • 3, 4, 5
Erodium moschatum • white-stemmed filaree • 4, 5
Geranium dissectum • cut-leaved geranium • 3, 4, 5
Geranium lucidum • shining geranium • 3
Geranium molle • dove-footed geranium • 5
Geranium purpureum • little robin • 3
Geranium robertianum • herb-robert • 4

Gramineae (Poaceae) — Grass Family
Aegilops cylindrica • jointed goat grass • 2, 4, 5
Aegilops geniculata • ovate goat grass • 2, 4, 5
Aegilops neglecta • three-awned goat grass • 6
Aegilops triuncialis • barbed goat grass • 2, 3, 4, 5
Agrostis avenacea • Pacific bent grass • 3, 4
Agrostis stolonifera • creeping bent grass • 3, 4, 5
Alopecurus myosuroides • black grass • 4
Alopecurus pratensis • meadow foxtail • 3,
Ammophila arenaria • European beach grass • 3, 4, 5
Anthoxanthum odoratum • sweet vernal grass • 3, 4, 5
Arundo donax • giant reed • 2, 3, 4, 5
Avena barbata • slender wild oat • 3, 4, 5
Avena fatua • wild oat • 3, 4, 5
Avena sterilis • animated oat • 1, 4
Brachypodium distachyon • annual false brome • 3, 4, 5
Brachypodium sylvaticum • slender false brome • 2, 3, 4
Briza maxima • rattlesnake grass • 3, 4, 5
Briza minor • lesser or little quaking grass • 5
Bromus catharticus • rescue grass • 5
Bromus diandrus • ripgut brome • 3, 4, 5
Bromus hordeaceus • soft brome • 3, 4, 5
Bromus japonicus • Japanese brome • 3, 4, 5
Bromus madritensis ssp. rubens • red brome • 3, 4, 5
Bromus tectorum • downy brome, cheat grass • 3, 4, 5
Cenchrus (Pennisetum) ciliaris • buffel grass • 4
Cenchrus echinatus • southern sandbur • 2, 4, 5
Cenchrus incertus • coast sandbur • 2, 4, 5
Cenchrus lonsispinus • mat sandbur • 2, 4, 5
Cenchrus (Pennisetum) setaceus • crimson fountain grass • 3, 4
Cenchrus (Pennisetum) villosus • feather grass • 4
Chloris virgata • feather finger or windmill grass • 5
Cortaderia jubata • jubata grass • 2, 3, 4, 5
Cortaderia selloana • pampas grass • 3, 4, 5
Crypsis schoenoides • swamp prickle grass • 5
Cynodon dactylon • Bermuda grass • 3, 4, 5
Cynosurus cristatus • crested dogtail grass • 6
Cynosurus echinatus • hedgehog dogtail grass • 3, 4, 5
Dactylis glomerata • orchard grass • 3, 4, 5
Digitaria ischaemum • smooth crab grass • 5
Digitaria sanguinalis • hairy crab grass • 4, 5
Distichlis spicata • salt grass • 6
Echinochloa colona • jungle-rice • 4, 5
Echinochloa crus-galli • barnyard grass • 5
Ehrharta calycina • purple veldt grass • 3, 4, 5
Eleusine indica • goose grass • 5
Elymus (Taenium) caput-medusae • medusa head • 2, 3, 4, 5
Elymus (Elytrigia) repens • quack grass • 2, 4, 5
Eragrostis cilianensis • stink grass • 5
Eragrostis minor • little love grass • 5
Eragrostis pectinacea • tufted love grass • 5
Eriochloa acuminata • southwestern cup grass • 5
Festuca arundinacea • tall fescue • 3, 4, 5
Festuca (Vulpia) myuros • rat-tail fescue • 3, 4, 5
Festuca (Lolium) perennis • rye grass • 4
Festuca (Lolium) temulenta • darel • 6
Gastridium pheloides • nit grass • 5
Glyceria declinata • waxy manna grass • 3, 4
Heteropogon contortus • tanglehead • 2, 5
Holcus lanatus • common velvet grass • 3, 4, 5
Hordeum marinum • Mediterranean barley • 3, 4, 5
Hordeum murinum • wall barley • 3, 4, 5
Hyyparrhena hirta • thatching grass • 3
Kikuyuochloa (Pennisetum) clandestina • Kikuyu grass • 1, 2, 3, 4, 5
Leptochloa fascicularis • bearded sprangletop • 5
Leptochloa uninervia • Mexican sprangletop • 5
Muhlenbergia schreberi • nimblewill • 2, 4, 5
Oryza rufipogon • perennial wild red rice • 1, 2, 4
Panicum antitotale • blue panic grass • 2, 5
Panicum capillare • witch grass • 5
Panicum milaceum • proso millet • 4
Panicum repens • torpedo grass • 4
Parapholis incurva • sickle grass • 6
Parapholis striigosa • strigose sickle grass • 6
Paspalum dilatatum • Dallis grass • 5
Paspalum distichum • knot grass • 5
Paspalum urvillei • Vasey's grass • 3
Paspalum vaginatum • seashore paspalum • 3
Pennisetum (Cenchrus) clandestina • Kikuyu grass • 1, 2, 3, 4, 5
Phalaris aquatica • Harding grass • 3, 4, 5
Phalaris arundinacea • reed canary grass • 4
Phalaris minor • little-seeded canary grass • 5
Phalaris paradoxa • hooded canary grass • 5
Phragmites australis • common reed • 3, 4
Phyllostachys aurea • golden bamboo • 6
Poa annua • annual blue grass • 5
Poa bulbosa • bulbous blue grass • 5
Poa pratensis • Kentucky blue grass • 3, 4, 5
Polypogon monspeliensis • rabbit's-foot grass • 3, 4, 5
Rastraria (Koeleria) cristata • Mediterranean hair grass • 5
Rytidosperma (Danthonia) caespitosum • wallaby grass • 3
Rytidosperma (Danthonia) penicillatum • hairy poverty grass • 3
Saccharum ravennae • Ravenna grass • 2, 3, 4
Schismus barbatus var. arabicus • Arabian grass • 3, 4, 5
Schismus barbatus var. barbatus • Mediterranean grass • 3, 4, 5
Secale cereale • rye • 4
Setaria faberi • giant foxtail • 2, 4
Setaria pumila • yellow foxtail • 4, 5
Setaria viridis • green bristle grass • 4
Sorghum bicolor • sorghum • 4, 5
Sorghum halepense • Johnson grass • 2, 4, 5
Spartina alterniflora x S. foliosa hybrids • 4
Spartina alterniflora • smooth cord grass • 2, 3, 4, 5
Spartina anglica • common cord grass • 2, 3, 4
Spartina densiflora • dense-flowered cord grass • 2, 3, 4
Spartina patens • salt meadow cord grass • 3, 4
Sporobolus indicus • smut grass • 5
Stipa (Achnatherum) brachychaeta • puna grass • 2, 4, 5
Stipa (Oryzopsis, Piptatherum) miliacea • smilo grass • 3, 4
Stipa capensis • Mediterranean steppe grass • 3, 4
Stipa manicata • Andean tussock grass • 3
Stipa tenuissima • Mexican feather grass • 3
Tribolium obliterum • Capetown grass • 2
Ventenata dubia • North Africa grass, venenata • 3

Gunneraceae — Gunnera Family
Gunnera tinctoria • Chilean- or giant-rhubarb • 3

Guttiferae — St. John’s Wort Family
Hypericum androsaemum • sweet amber • 3
Hypericum canariense • Canary Island St. John’s wort • 2, 3, 4
Hypericum perforatum • Klamath weed • 2, 3, 4, 5
Hypericum grandifolium • large-leaved hypericum • 3

Haloragaceae — Water Milfoil Family
Myriophyllum aquaticum • parrot-feather • 3, 4
Myriophyllum spicatum • Eurasian waterfoil • 3, 4

Hydrocharitaceae — Water Weed Family
Egeria densa • Brazilian waterweed • 2, 3, 4
Hydrilla verticillata • hydrilla • 1, 2, 3, 4
Limnobium spongia • sponge plant • 2, 4

Hydrocotylaceae — Water Pennywort Family
Hydrocotyle ranunculoides • floating pennywort • 5

Iridaceae — Iris Family
Chasmanthe floribunda • African flag • 3
Crocosmia x crocosmiiflora • montbretia • 3, 4
Iris douglasiana • Douglas’ iris • 5
Iris missouriensis • western blue flag iris • 5
Iris pseudacorus • yellow flag • 3
Romulea rosea • rosy sand-crocus • 3
Watsonia meriana • bulbil watsonia • 3, 4

Juncaceae — Rush Family
Juncus bufonius • toad rush • 5
Juncus effusus • soft rush • 5
Juncus patens • spreading rush • 5

Labiateae (Lamiaceae) — Mint Family
Lamium amplexicaule • henbit dead-nettle • 4, 5
Lamium purpureum • purple dead-nettle • 5
Marrubium vulgare • white horehound • 3, 4, 5
Mentha pulegium • pennyroyal • 3, 4, 5

Prunella vulgaris var. vulgaris • self-heal, heal-all • 5
Salvia aethiopis • Mediterranean sage • 2, 3, 4
Salvia virgata • southern meadow sage • 2, 4

Leguminosae (Fabaceae) — Legume Family
Acacia baileyana • Cootamundra wattle • 3
Acacia cyclops • coastal wattle • 3
Acacia dealbata • silver wattle • 3, 4
Acacia melanoxylon • blackwood acacia • 3, 4
Acacia paradoxa • kangaroo thorn • 2, 3, 4, 5
Acacia pycnantha • golden wattle • 3
Aeschynomene rudis • rough joint-vetch • 3, 4
Aeschynomene spp. • rough joint-vetch • 2
Alhagi maurorum • camel thorn • 2, 3, 4, 5
Amorpha fruticosa • indigo bush • 4
Astragalus spp. • loco weed, milkvetch • 5
Cytisus multiflorus • Spanish or Portuguese broom • 3
Cytisus proliferus • tree lucerne • 3
Cytisus scoparius • Scotch broom • 2, 3, 4, 5
Cytisus striatus • Portuguese broom • 3, 4
Genista linifolia • Mediterranean broom • 3
Genista monosperma • bridal or bridal veil broom • 3
Genista monspessulana • French broom • 2, 3, 4, 5
Gleditsia triacanthos • honey locust • 4
Glycyrrhiza lepidota • wild licorice • 5
Halocheckodon halodendron • Russian salt tree • 2, 4
Halimodendron halodendron • Russian salt tree • 2, 4
Lathyrus latifolius • everlasting or perennial pea • 5
Lotus corniculatus • bird’s-foot trefoil • 5
Lupinus arboresus • yellow bush lupine • 3, 5
Medicago lupulina • black medic • 5
Medicago polymorpha • California bur clover • 3, 4, 5
Melilotus indicus • Indian sweet clover • 5
Melilotus officinalis • yellow or white sweet clover • 5
Ononis alopecuroides • foxtail restharrow • 2, 3, 4
Parasenianthes (Acacia) lophantha • plumed albizia • 3
Prosopis strombulifera • creeping mesquite • 1, 2, 4, 5
Prosopis velutina • velvet mesquite • 4, 5
Retama monosperma • bridal broom • 2, 3, 4
Robinia pseudoacacia • black locust • 3, 4, 5
Senna obtusifolia • sickle-pod, Java bean, blunt-leaved senna • 4
Sesbania punicea • scarlet wisteria • 2, 3, 4, 5
Spartium junceum • Spanish broom • 2, 3, 4, 5
Sphaerophyso salcusa • Austrian pea weed • 2, 4, 5
Trifolium dubium • small hop clover • 5
Trifolium fragiferum • strawberry clover • 5
Trifolium hirtum • rose clover • 3, 4, 5

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Trifolium incarnatum • crimson clover • 5
Trifolium repens • white clover • 5
Ulex europaeus • gorse • 2, 3, 4, 5
Vicia sativa ssp. nigra • narrow-leaved vetch • 5
Vicia sativa ssp. sativa • garden or common vetch • 4, 5
Vicia villosa var. villosa • hairy or winter vetch • 4

Lythraceae — Loosestrife Family
Lythrum hyssopifolium • hyssop loosestrife • 3, 4, 5
Lythrum salicaria • purple loosestrife • 2, 3, 4, 5

Malvaceae — Mallow or Cotton Family
Abutilon theophrasti • velvet leaf • 4, 5
Anoda costata • spurred anoda • 4
Malva neglecta • common mallow • 4, 5
Malva niaceensis • bull mallow • 4, 5
Malva parviflora • cheeseweed mallow • 4, 5
Malva sylvestris • high mallow • 4, 5

Martyniaceae — Unicorn Plant Family
Ibicella lutea • yellow devil's-claw • 5
Proboscidea louisianica • common unicorn plant, ram's-horn • 4, 5

Menyanthaceae — Bog Bean Family
Nymphoides peltata • yellow floating heart • 2, 4

Molluginaceae — Carpet Weed Family
Mollugo verticillata • carpet weed • 5

Montiaceae — Miner's-Lettuce Family
Calandrinia ciliata • fringed red maids • 5
Claytonia perfoliata • miner's-lettuce • 5

Moraceae — Mulberry Family
Fatuoa villosa • hairy crabeed • 2, 4
Ficus carica • edible fig • 3, 4, 5

Myoporaceae — Myoporum Family
Myoporum laetum • ngaio or mouse hole tree • 3, 4, 5

Myrtaceae — Myrtle Family
Eucalyptus camaldulensis • red gum • 3, 4
Eucalyptus globulus • Tasmanian blue gum • 3, 4, 5

Nitrariaceae — Nitraria Family
Peganum harmala • harmel • 2, 4

Nyctaginaceae — Four-O’Clock Family
Mirabilis nyctaginea • wild four-o’clock • 4

Nymphaeaceae — Water-lily Family
Nymphaea mexicana • banana waterlily • 2, 4
Nymphaea odorata ssp. odorata • fragrant waterlily • 3, 4

Oleaceae — Olive Family
Ligustrum lucidum • glossy or broad-leaved privet • 3
Olea europaea • olive • 3, 4

Onagraceae — Evening-Primrose Family
Epilobium brachycarpum • tall annual willow herb • 5
Epilobium ciliatum • fringed willow herb • 5
Fuchsia magellanica • hardy fuchsia • 6
Ludwigia decurrens • winged water-primrose • 2
Ludwigia grandiflora • large-flowered primrose-willow • 4
Ludwigia hexapetala • Uruguay water-primrose • 2, 3, 4
Ludwigia peploides ssp. montevidensis • creeping water-primrose • 3, 4
Ludwigia peruviana • Peruvian water-primrose • 2
Oenothera elata • Hooker’s evening-primrose • 5
Oenothera laciniata • cut-leaved evening-primrose • 5
Oenothera (Gaura) sinuosa • wavy-leaved gaura • 2, 4
Oenothera (Gaura) suffrutescens • scarlet gaura • 5
Oenothera (Gaura) xenogaura • Drummond’s gaura • 2

Oxalidaceae — Wood Sorrel Family
Oxalis corniculata • creeping wood sorrel • 4, 5
Oxalis pes-caprae • Bermuda-buttercup • 3, 4, 5

Palmae (Arecales) — Palm Family
Phoenix canariensis • Canary Island date palm • 3, 4
Washingtonia robusta • Mexican fan palm • 3, 4, 5

Papaveraceae — Poppy Family
Fumaria officinalis • fumitory • 5

Passifloraceae — Passion Flower Family
Passiflora tarminiana • banana passion fruit • 3
Phytolaccaceae — Pokeweed Family
Phytolacca americana • common pokeweed • 3, 4, 5

Pittosporaceae — Pittosporum Family
Pittosporum undulatum • Victorian box • 4

Plantaginaceae — Plantain Family
Plantago coronopus • cut-leaved plantain • 5
Plantago lanceolata • English plantain • 3, 4, 5
Plantago major • broad-leaved plantain • 5

Plumbaginaceae — Leadwort Family
Limonium duriusculum • European sea lavender
Limonium ramocissimum • Algerian sea lavender • 3

Polygalaceae — Milkwort Family
Polygala myrtifolia • myrtle-leaved milkwort • 3

Polygonaceae — Smartweed or Knotweed Family
Emex australis • three-cornered jack • 4
Emex spinosa • devil's-thorn • 3, 4
Muehlenbeckia complexa • maidenhair vine • 6
Polygonum (Persicaria) amphibium • swamp smartweed • 5
Polygonum arenastrum • common or oval-leaved knotweed • 4, 5
Polygonum argyrocoleon • silver-sheathed knotweed • 5
Polygonum aviculare • prostrate knotweed, knot-grass • 6
Polygonum (Fallopia) x bohemicum • Bohemian knotweed • 2
Polygonum (Fallopia) convolvulus • bindweed • 5
Polygonum (Fallopia) cuspidatum • Japanese knotweed • 2, 5
Polygonum (Persicaria) persicaria • lady's-thumb • 5
Polygonum (Persicaria) polystachya • Himalayan knotweed • 2, 5
Polygonum (Reynoutria) sachalinense • Sakhalin knotweed • 2, 3, 4, 5
Ranunculus acris • tall buttercup • 4
Ranunculus muricatus • rough-seeded buttercup • 5
Ranunculus repens • creeping buttercup • 3, 4, 5
Ranunculus stenophyllus • bur buttercup • 5

Ranunculaceae — Buttercup Family
Clematis vitalba • old man's-beard • 4
Delphinium spp. • larkspures • 5
Anagallis arvensis • scarlet pimpernel • 5

Rhamnaceae — Buckthorn Family
Rhamnus alaternus • Italian buckthorn • 3

Rosaceae — Rose Family
Acaena anserinifolia • biddy-biddy • 2
Acaena magellanica • biddy-biddy • 4
Acaena novae-zelandiae • biddy-biddy • 2, 4, 5
Acaena pallida • pale biddy-biddy • 2, 4
Cotoneaster franchetii • orange cotoneaster • 3, 4
Cotoneaster lacteus • Parney's cotoneaster • 3, 4, 5
Cotoneaster pannosus • silver-leaved cotoneaster • 3, 4, 5
Crataegus monogyna • hawthorn • 3, 4, 5
Potentilla recta • sulfur cinquefoil • 2, 4, 5
Prunus cerasifera • cherry plum • 3, 4
Rubus armeniacus • Himalaya berry • 3, 4, 5
Rubus parviflorus • western thimbleberry • 5
Rubus ursinus • Pacific blackberry • 5

Rubiaceae — Madder Family
Diodia virginiana • Virginia button weed • 2
Calystegia sepium • morning glory • 5
Rosa gallica • sweetbriar rose • 5
Rubus armeniacus • Himalaya berry • 3, 4, 5
Rubus leucodermis • Pacific or western raspberry • 5
Sherardia arvensis • field madder • 5
Salicaceae — Willow Family
Salix exigua • coyote willow • 5
Salix gooddingii • Goodding’s black willow • 5
Salix laevigata • red willow • 5
Salix lasiolepis • arroyo willow • 5

Santalaceae — Sandalwood Family
Arceuthobium spp. • dwarf mistletoes • 5
Phoradendron spp. • American or true mistletoes • 5
Viscum album • European mistletoe • 2, 4

Scrophulariaceae — Scroph or Snapdragon Family
Bellardia trixago • bellardia • 3, 4, 5
Digitalis purpurea • purple foxglove • 3, 4, 5
Kicxia elatine • sharp-leaved cancerwort • 4, 5
Linaria genistifolia ssp. dalmatica • Dalmatian toadflax • 2, 3, 4, 5
Linaria vulgaris • yellow toadflax, butter and eggs • 3, 4, 5
Orobancha aegyptiaca • Egyptian broomrape • 3
Orobancha cooperi • Cooper’s broomrape • 4, 5
Orobancha ramosa • branched broomrape • 2, 4, 5
Orbanche spp. • broomrapes • 1, 4
Parentucellia viscosa • yellow gland weed • 3, 4, 5
Verbascum blattaria • moth mullein • 4, 5
Verbascum thapsus • common mullein • 3, 4, 5
Veronica anagallis-aquatica • water speedwell • 5
Veronica persica • Persian speedwell • 5

Simaroubaceae — Quassia Family
Ailanthus altissima • tree-of-heaven • 2, 3, 4, 5

Solanaceae — Nightshade Family
Cestrum parqui • Chilean-jessamine • 3
Datura ferox • Chinese thorn-apple • 5
Datura inoxia • sacred datura • 3
Datura stramonium • jimson weed • 5
Datura wrightii • sacred datura • 5
Hyoscyamus niger • black henbane • 2, 4, 5
Lycium ferocissimum • African boxthorn • 1, 4
Nicotiana acuminata • many-flowered tobacco • 5
Nicotiana glauca • tree tobacco • 3, 4, 5
Physalis acutifolia • Wright’s ground-cherry • 5
Physalis angulata • cut-leaved ground-cherry • 5
Physalis longifolia • long-leaved ground-cherry • 2, 4
Physalis philadelphica • tomatillo ground-cherry • 5
Physalis viscosa • grape ground cherry • 2, 4
Salpichroa organifolia • lily-of-the-valley vine • 3
Solanum americanum • American black nightshade • 5
Solanum aviculare • New Zealand nightshade • 3
Solanum cardiophyllum • heart-leaved horse-nettle • 2
Solanum carolinense • Carolina horse-nettle • 2, 4, 5
Solanum dimidiatum • Torrey's or robust nightshade • 2, 4, 5
Solanum elaeagnifolium • silver-leaved nightshade • 2, 4, 5
Solanum lanceolatum • lance-leaved nightshade • 2, 4, 5
Solanum marginatum • white-margined nightshade • 2, 4, 5
Solanum nigrum • black nightshade • 4, 5
Solanum physalifolium • hoe nightshade • 4, 5
Solanum rostratum • buffalo bur • 4

Tamaricaceae — Salt-cedar Family
Tamarix aphylla • Athel tamarisk • 3, 4, 5
Tamarix chinensis • Chinese tamarisk • 2, 4
Tamarix gallica • French tamarisk • 2
Tamarix parviflora • small-flowered tamarisk • 2, 3, 4, 5
Tamarix ramosissima • salt-cedar • 2, 3, 4, 5

Typhaceae — Cattail Family
Sparganium erectum • exotic bur reed • 1, 4

Ulmaceae — Elm Family
Ulmus pumila • Siberian elm • 4

Umbelliferae (Apiaceae) — Carrot Family
Ammi majus • greater ammi • 5
Ammi visagna • toothpick ammi • 5
Anthriscus caucalis • bur chervil • 5
Carum carvi • wild caraway • 4
Cicuta douglasii • western water hemlock • 5
Cicuta maculata • spotted hemlock, spotted western hemlock • 5
Conium maculatum • poison hemlock • 3, 4, 5
Cyclopsepermum leptophyllum • wild-celery • 5
Daucus carota • wild carrot, Queen Anne’s lace • 4, 5
Foeniculum vulgare • fennel • 3, 4, 5
Torilis arvensis • hedge-parsley • 3, 4, 5

Urticaceae — Nettle Family
Urtica dioica • stinging nettle • 5
Urtica urens • burning nettle • 5

Verbenaceae — Verbena or Vervain Family
Phyla nodiflora • mat lippia • 5
Verbena bonariensis • purple-topped or tall vervain • 3, 5
Verbena litoralis • tall or seashore vervain • 4, 5
**Violaceae — Violet Family**

*Viola odorata* • English violet • 5

**Zosteraceae — Eel-Grass Family**

*Zostera japonica* • Japanese eel-grass • 2, 3, 4

**Zygophyllaceae — Caltrop Family**

*Tribulus terrestris* • puncture vine • 2, 4, 5  
*Zygophyllum fabago* • Syrian bean-caper • 2, 4, 5

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