



Wild Plants of Contra Loma Regional Park

Common Name Version

A Photographic Guide

Sorted by Form, Color and Family
with Habitat Descriptions and Identification Notes

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East Bay 
Regional Park District

New Revised and Expanded Edition - Includes the latest
scientific names, habitat descriptions and identification notes

A Photographic Guide to the Wild Plants of Contra Loma Regional Park

More than 2,000 species of native and naturalized plants grow wild in the San Francisco Bay Area. Most are very difficult to identify without the help of good illustrations. This is designed to be a simple, color photo guide to help you identify some of these plants. This guide is published electronically in Adobe Acrobat® format so that it can easily be updated as additional photographs become available. You have permission to freely download, distribute and print this guide for individual use. Photographs are © 2014 Wilde Legard, all rights reserved.

In this guide, the included plants are sorted first by form (Ferns & Fern-like, Grasses & Grass-like, Herbaceous, Woody), then by most common flower color, and finally by similar looking flowers (grouped by genus within each family). Each photograph has the following information, separated by '-':

COMMON NAME	According to <i>The Jepson Manual: Vascular Plants of California, Second Edition (JM2)</i> and other references (not standardized).
(Scientific Name)	According to <i>JM2</i> and <i>eFlora</i> (ucjeps.berkeley.edu/IJM.html).
Origin & Longevity	Native, Naturalized, or Waif (not reproducing without human care). Annual, Biennial, Perennial, or a combination.
Family Name	Common family name according to <i>JM2</i> ,
(Bloom date range)	Period during the year when the plant blooms, according to <i>JM2</i> and other sources. '-' if plant does not bloom (ie. Ferns).
Habitat	Habitat description according to <i>JM2</i> and other sources.
ID Characteristics	Plant description with identification characteristics and other notes, based on multiple sources including: <i>Annotated Checklist of the East Bay Flora, Second Edition (2013)</i> , <i>JM2</i> , <i>Plants of the San Francisco Bay Region (Revised Edition)</i> , and <i>Weeds of California and Other Western States</i> .
Additional notes	Occasionally, an additional note may appear (ie. NOXIOUS weed, INVASIVE weed, Fed & Calif. ENDANGERED, etc.).

Revision: 3/2/2014

Fern-like - Green/Brown



MOSQUITO FERN (*Azolla filiculoides*) Native Perennial - Mosquito Fern Family - - - Common. Ponds, slow streams - Floating aquatic fern, green to red. Stem gen 0.4-1.2" long. Leaves oval, gen ~0.06" long by 0.04" wide. NITROGEN fixing.



SLENDER WILD OAT (*Avena barbata*) Naturalized Annual - Grass Family - (Mar-Jun) - Disturbed sites - Plants gen 24-32". Spikelets 0.8-1.2" long. Awns 0.8-1.8" long. Lemma tip bristles >= 0.1" long. Seeds EDIBLE whole or ground for flour. INVASIVE weed.

Wild Plants of Contra Loma Regional Park - Sorted by Form, Color and Family

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WILD OAT (*Avena fatua*) Naturalized Annual - Grass Family - (Apr-Jun) - Disturbed sites - Plants 1-5' tall. Spikelets 0.7-1.3" long. Low awn 1-1.6" long. Lemma tip bristles < 0.04" long. Seeds EDIBLE whole or ground for flour. INVASIVE weed.



SOFT CHESS (*Bromus hordeaceus*) Naturalized Annual - Grass Family - (Apr-Jul) - Fields, disturbed areas - Plant 4-26" tall. Leaf hairy. Flower cluster 1-5" long, dense, some stalks > spikelet. Spikelet 0.5-0.9". Lemma 0.26-0.4", awn 0.16-0.4". INVASIVE weed.



BARNYARD GRASS (*Echinochloa crus-galli*) Naturalized Annual - Grass Family - (Jun-Oct) - Gen wet, disturbed sites, fields, roadsides - Stem 12-39" long. Leaf blades to 25" long, 0.2-1.2" wide. Spikelet 0.1-0.16" long, floret ~0.14" long, 1 per node. Awns 0-2" long on same plant.



BEARDLESS WILD RYE (*Elymus triticoides*) Native Perennial - Grass Family - (Jun-Jul) - Dry to moist, often saline, meadows - Plant 18-50" tall, from rhizomes. Flower cluster 2-8" long. Spikelets generally 2/node. Lemmas 3-7, 0.2-0.5" long, awn to 0.12" long.



RYE GRASS (*Festuca perennis*) Naturalized Perennial - Grass Family - (May-Sep) - Dry to moist disturbed sites, abandoned fields - Stem 20-40" tall. Spikelet 0.2-0.9" long, > glume, awned or awnless. Sterile shoots at base. **INVASIVE weed.**



HARE BARLEY (*Hordeum murinum* subsp. *leporinum*) Naturalized Annual - Grass Family - (Feb-May) - Moist, gen disturbed sites. Common - Stem 12-43" tall. Central spikelet stalk ~0.06" long. Central floret << lateral florets. **INVASIVE weed.**



DALLIS GRASS (*Paspalum dilatatum*) Naturalized Perennial - Grass Family - (May-Nov) - Disturbed areas - Tufted, weedy. Stem 1.6-5.7' tall. Leaves to 14" long. Flowering stem w/3-6 branches. Spikelet groups 2-7, each 0.6-4.7" long. Spikelets ~0.14", paired.



ANNUAL BLUE GRASS (*Poa annua*) Naturalized Annual - Grass Family - (Feb-Sep) - Abundant. Disturbed moist ground - Plant 1-8" tall. Leaf blade 0.04-0.12" wide, soft. Flower cluster 0.4-4" long, triangular. Lemmas 0.1-0.16" long.



ONE-SIDED BLUE GRASS (*Poa secunda* subsp. *secunda*) Native Perennial - Grass Family - (Mar-Aug) - Common. Dry slopes to saline/alkaline meadows to alpine - Plant 6-40" tall, densely tufted. Flower clusters congested. Spikelets gen 0.3-0.4" long. Lemmas 0.16-0.2" long, backs rounded.



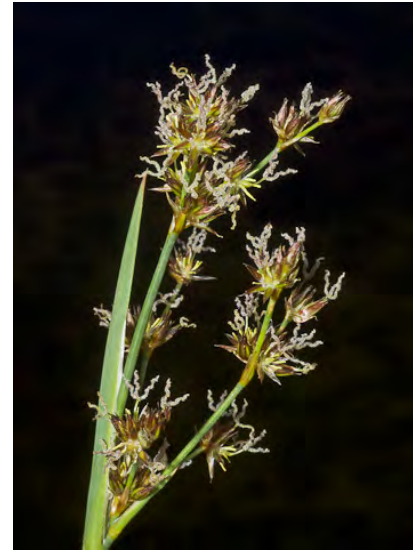
RABBITFOOT GRASS (*Polygogon monspeliensis*) Naturalized Annual - Grass Family - (Apr-Aug) - Moist places, along streams - Stem 8-39". Leaf 0.4-8" long, 0.16-0.24" wide. Flower cluster 0.4-6.7" long, plume-like. Glume awn > 0.14". Lemma awn gen < 0.1". **INVASIVE.**



PURPLE NEEDLE GRASS (*Stipa pulchra*) Native Perennial - Grass Family - (Mar-Jun) - Oak woodland, chaparral, grassland - Stem 14-39" long. Leaf blade 4-8" long. Glumes 0.5-0.8" long, ~equal. Awn 1.6-4" long, last segment straight.



BALTIC RUSH (*Juncus balticus* subsp. *ater*) Native Perennial - Rush Family - (Jul-Nov) - Moist to ± dry sites - Stem 14-43" tall, round, not twisted. No leaf blade. Flowers generally 0.1-0.2" long.



IRIS-LEAVED RUSH (*Juncus xiphioides*) Native Perennial - Rush Family - (Jul-Oct) - Wet places - Plant 16-32" tall. Leaf blades 0.2-0.5" wide, flat, iris-like. Heads many, few-flowered. Anthers 6, < filaments, flowers self-pollinating.



TALL NUTSEDGE (*Cyperus eragrostis*) Native Perennial - Sedge Family - (May-Nov) - Vernal pools, streambanks - Leaves basal. Flower cluster bracts 4-8. Spikelets 0.2-0.8" long, oblong, in heads to 1.6" wide. Seeds short-stalked.



COMMON TULE (*Schoenoplectus acutus* var. *occidentalis*) Native Perennial - Sedge Family - (Summer) - Common. Marshes, shores, fens, shallow lakes, often emergent - Stem 3.3-13' tall, fat, round x-section, blue-green.



SOUTHERN BULRUSH (*Schoenoplectus californicus*) Native Perennial - Sedge Family - (Spring-summer) - Common. Brackish to fresh marshes, shores - Stem 3.3-13' tall, slender, bright green, bluntly 3-angled. Flower cluster somewhat open.



FIELD PHACELIA (*Phacelia ciliata*) Native Annual - Boraginaceae - (Feb-Jun) - Clay or gravelly slopes in grassland, fields - Plant 4-22" tall. Leaves deeply lobed to divided. Flowers 0.3-0.4" long, purple. Flower bracts large w/raised veins. Seeds 4.



TANSY-LEAF PHACELIA (*Phacelia tanacetifolia*) Native Annual - Boraginaceae - (Mar-May) - Sandy to gravelly slopes, open areas - Plant 0.6-39" tall. Leaves divided. Flowers 0.24-0.35" long, blue, persistent in fruit. Seeds 1-2.



BLUE DICKS (*Dichelostemma capitatum* subsp. *capitatum*) Native Perennial - Brodiaea Family - (Mar-Jun) - Open woodland, scrub, desert, grassland - Plant 2-28" tall. Flowers blue-purple, not narrowed in the middle. Stamens 6. Early spring bloomer.



FORK-TOOTHED OOKOW (*Dichelostemma congestum*) Native Perennial - Brodiaea Family - (Apr-Jun) - Open woodland, grassland - Plant 12-35" tall. Flowers blue-purple, narrowed above ovary. Stamens 3. Late spring bloomer.



ITHURIEL'S SPEAR (*Triteleia laxa*) Native Perennial - Brodiaea Family - (Apr-Jun) - Common. Open forest, conifer or foothill woodland, grassland on clay soil - Flower stem 4-28". Leaves 8-16", 0.16-1" wide. Flowers blue, blue-purple or white, 0.7-1.9" long.



COMMON OWL'S-CLOVER (*Castilleja densiflora* subsp. *densiflora*) Native Annual - Broom-rape Family - (Mar-May) - Grassland - Plant 4-16" tall. Leaves 0.8-3.1" long, narrow-lobed. Flower cluster gen rose-purple. Flower upper lip straight.



PURPLE SANICLE (*Sanicula bipinnatifida*) Native Perennial - Carrot Family - (Mar-May) - Open grassland, gen on serpentine, or pine/oak woodland - Plant 5-24" tall. Leaves 1.6-7.5" long, 1-2x divided on a winged central axis. Flowers dark purple. Fruits prickly.



CALIFORNIA MILKWEED (*Asclepias californica*) Native Perennial - Dogbane Family - (Apr-Jul) - Flats, grassy or brushy hillsides - Plant densely white-woolly. Leaves oval. Flowers dark purple, ~ 0.5" long, petals bent back. Food plant for Monarch butterflies.



PANICLED / WEEDY WILLOWHERB (*Epilobium brachycarpum*) Native Annual - Evening Primrose Family - (Jun-Sep) - Common. Dry open or disturbed woodland, grassland, roadsides - Plant 8-79" tall, diffuse. Petals 2-15 mm long, white to rose-purple.



CHAPARRAL WILLOWHERB (*Epilobium minutum*) Native Annual - Evening Primrose Family - (Apr-Sep) - Dry, open, disturbed areas, vernal pools, often after fire - Plant < 16" tall. Flower cluster open. Petals 0.1-0.2" long, white or pink. Leaves flat, not clustered.



LONG-BEAKED FILAREE (*Erodium botrys*)
Naturalized Annual - Geranium Family -
(Mar-Jul) - Dry, open or disturbed sites - Stem
4-35" tall, coarse-hairy. Leaves lobed. Petals
pink, 0.3-0.5" long. Sepals w/reddish tip. Fruit
beak 2-4.7" long.



REDSTEM FILAREE (*Erodium cicutarium*)
Naturalized Annual - Geranium Family -
(Feb-Sep) - Open, disturbed sites, grassland,
scrub - Stem 4-20". Leaves compound, leaflets
dissected. Sepal tip bristly. Petal pink to purple.
Fruit beak 0.8-2". **INVASIVE.**



GREENSTEM FILAREE (*Erodium moschatum*)
Naturalized Annual - Geranium Family -
(Feb-Sep) - Open, disturbed sites - Stem 4-24",
short-hairy. Leaves compound, leaflets toothed.
Sepal tip glabrous. Petals 0.4-0.6" long, pink.
Fruit beak 0.8-1.6" long.



CUT-LEAVED GERANIUM (*Geranium
dissectum*) Naturalized Annual - Geranium
Family - (Mar-Jul) - Open, disturbed sites - Stem
3-28" tall, rough-hairy. Leaf blades deeply
divided. Petals violet-red, 0.1-0.25" long
w/notched tips. Flower stalk sticky. **INVASIVE.**



RED MAIDS (*Calandrinia ciliata*) Native Annual -
Miner's Lettuce Family - (Feb-May) - Common.
Sandy to loamy soil, grassy areas, cult fields -
Petals 0.2-0.6" long, bright pink to red,
round-tipped. Fruit < 0.1" longer than bracts.



VINEGAR WEED (*Trichostema lanceolatum*)
Native Annual - Mint Family - (Jun-Nov) - Dry,
open, gen disturbed habitats - Plant < 39" tall.
Leaf blades 0.8-2.8" long, leaf stalk, ~ stalkless.
Flowers purple-blue, tube 0.2-0.4" long, curving
up. Vinegar scent.



RADISH (*Raphanus sativus*) Naturalized Annual -
Mustard Family - (May-Jul) - Disturbed areas,
fields - Stem 16-51" long. Petals 0.6-1" long,
white to purple. Fruit a fat cylinder w/constrictions
between seeds. **INVASIVE weed.**



MINIATURE LUPINE (*Lupinus bicolor*) Native
Annual - Pea Family - (Mar-Jun) - Abundant.
Open or disturbed areas - Plant 4-16", hairy.
Flower 0.16-0.4" long, banner longer than wide,
upper keel ciliate near tip, pedicel < 0.12". Fruit
0.12-0.24" wide.



ARROYO LUPINE (*Lupinus succulentus*) Native Annual - Pea Family - (Feb-May) - Abundant. Open or disturbed areas, often seeded on roadbanks - Plant 8-40" tall, fleshy, sparsely hairy. Flowers 0.5-0.7" long, whorled, gen blue-purple, petal claws short-hairy.



TRUNCATE SACK CLOVER (*Trifolium depauperatum* var. *truncatum*) Native Annual - Pea Family - (Apr-Jun) - Grassy flats, disturbed slopes, openings in woodland - Head bracts <= 0.1" long. Flowers pink-purple. Fruit ~0.1" long, inflated, stalked.



STRAWBERRY CLOVER (*Trifolium fragiferum*) Naturalized Perennial - Pea Family - (Late spring) - Roadsides, gen in saline soil - Head bracts 0.08" long, green. Flowers pink, 0.2-0.24" long, quickly hidden by hairy inflated flower bracts.



PINPOINT CLOVER (*Trifolium gracilentum*) Native Annual - Pea Family - (Mar-Jun) - Open, disturbed places, occas serpentine - Leaflet tips not deep-notched. Reflexed pink-purple flowers w/point. Flower bracts completely smooth.



TOMCAT CLOVER (*Trifolium willdenovii*) Native Annual - Pea Family - (Mar-Jun) - Abundant. Disturbed, gen spring-moist, heavy soils, occas serpentine - Head bract wheel-shaped, sharp-lobed. Leaf narrow. Flowers purple w/white tip, 0.3-0.6" long.



MANY-STEM CALIFORNIA GILIA (*Gilia achilleifolia* subsp. *multicaulis*) Native Annual - Phlox Family - (Feb-Jun) - Open or shaded, gen grassy places, sandy or rocky soil - Leaves linear-lobed. Flowers white to lavender, 0.2-0.4" long, not in heads.



PURPLESPOT GILIA (*Gilia clivorum*) Native Annual - Phlox Family - (Feb-Jun) - Common. Open, grassy areas - Stem 2-12" tall, hairy, branched. Leaves narrowly linear-lobed. Flowers 0.25-0.3" long, tube yellow, purple-spotted. Flowering stem sticky.



DIFFUSE BIRD'S-EYE GILIA (*Gilia tricolor* subsp. *diffusa*) Native Annual - Phlox Family - (Mar-Jul) - Open grassland, hills, valleys - Stem 3-15" tall, many branched. Flowers diffuse. Petals 0.3-0.75" long, purple-tipped, throat w/paired purple spots.



PERSIAN SPEEDWELL (*Veronica persica*) Naturalized Annual - Plantain Family - (Feb-May) - Wet, disturbed areas, fields - Stem 2-24" long, crawling. Flowers on 0.6-1.2" long stalks. Flowers blue, purple-lined with a white center.



PADRE SHOOTING STAR (*Dodecatheon clevelandii* subsp. *patulum*) Native Perennial - Primrose Family - (Mar-May) - Moist places, often on serpentine or in \pm alkaline sites - Leaf blade length $>2x$ width. Flowers often white. Filament tube w/light spots below anthers.



MOSQUITOBILLS SHOOTING STAR (*Dodecatheon hendersonii*) Native Perennial - Primrose Family - (Mar-Jul) - Gen in shady sites - Leaf blade length generally $<2x$ width. Flower parts 4s or 5s. Filament tube solid black.



ITALIAN THISTLE (*Carduus pycnocephalus* subsp. *pycnocephalus*) Naturalized Annual - Sunflower Family - (Mar-Jul) - Roadsides, pastures, disturbed areas - Stems 8-79", narrow spiny-wings. Lower leaves 4-10 lobed, heads 2-5, flower bracts woolly. NOXIOUS.



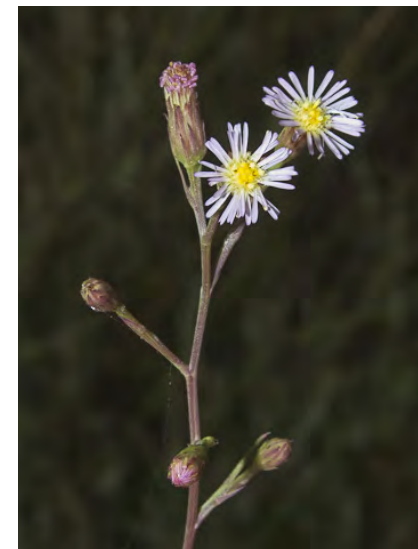
BULL THISTLE (*Cirsium vulgare*) Naturalized Biennial - Sunflower Family - (May-Oct) - Common. Disturbed areas - Plant 12-79" tall. Top of leaves bristly; leaf base forming decurrent wings on stem. Flowers purple, gen 1-2" wide. NOXIOUS weed.



SALTMARSH-FLEABANE (*Pluchea odorata* var. *odorata*) Native Perennial - Sunflower Family - (Jun-Nov) - Moist, often saline valley bottoms - Plant 20-48"+, sticky. Leaves 1.6-4.7" long, egg-shaped. Flowers purple, ~ 0.2 " long, in leaf axils.



MILK THISTLE (*Silybum marianum*) Naturalized Annual-Biennial - Sunflower Family - (Feb-Jun) - Roadsides, pastures, disturbed areas - Stem 1-10', stout. Leaves spiny, shiny green w/white veins and spots. Flowers red-purple. INVASIVE weed.



ANNUAL SALTMARSH ASTER (*Symphyotrichum subulatum* var. *parviflorum*) Native Annual - Sunflower Family - (Jul-Oct) - Marshes, disturbed places - Heads white to pink, solitary, in leaf axils and stem ends, <50 rays. Flower head bracts sharp-tipped.



CURLY DOCK (*Rumex crispus*) Naturalized
Perennial - Buckwheat Family - (All year) -
Abundant. Disturbed places - Stem 16-39" tall.
Flower cluster dense, valves 0.2-0.24", winged
around tubercles, smooth edged. 1 tubercle
enlarged. **INVASIVE.**



WALL GOOSEFOOT (*Chenopodium murale*)
Naturalized Annual - Goosefoot Family - (All
year) - Common. Disturbed areas, fields - Plant
6-24" tall. Leaves dark green, shiny, broad,
toothed. Seeds horizontal, bumpy, rim angled.



STINKBELLS (*Fritillaria agrestis*) Native
Perennial - Lily Family - (Mar-Jun) - Clay (gen
serpentine) banks, depressions - Stem 1-2' tall.
Leaves crowded below, 2-6" long, narrow. Petals
greenish-white outside, purple-brown inside,
0.7-1.4" long. **CNPS: WATCH LIST.**



COMMON PLANTAIN (*Plantago major*)
Naturalized Annual-Perennial - Plantain Family -
(Apr-Sep) - Disturbed areas - Leaves basal,
blades 5-18 cm long, broadly oval, not hairy.
Flowers + stem 2-24" tall, flower cluster gen
1.2-8" long.



TURKEY-MULLEIN (*Croton setigerus*) Native
Annual - Spurge Family - (May-Oct) - Dry, open,
often disturbed areas - Plant < 8" tall, moundlike,
covered w/long stiff hairs. Leaf blade 0.4-2" long,
oval. **TOXIC** to livestock.



PYGMY WEED (*Crassula connata*) Native
Annual - Stonecrop Family - (Feb-May) - Open
areas - Plants 0.8-2.4"+ tall, red in age. Flowers <
0.1" long, 2 per node; Sepals 4, pointed end.
Petals generally < sepals.



SPINY COCKLEBUR (*Xanthium spinosum*)
Native Annual - Sunflower Family - (Jul-Oct) -
Disturbed, seasonally wet, often alkaline sites, in
grassland, marshes, watercourses - Plant 4-24".
Stem node spines 0.6-1.2" long, golden, gen
3-lobed. Bur 0.4-0.5" long.



COCKLEBUR (*Xanthium strumarium*) Native
Annual - Sunflower Family - (Jul-Oct) -
Disturbed, seasonally wet, often alkaline sites, in
grassland, marshes, watercourses - Plant 4-32"
tall. Stem spineless. Bur 0.4-1.2"+ long.



COMMON FIDDLENECK (*Amsinckia intermedia*) Native Annual - Boraginaceae Family - (Mar-Jun) - Abundant. Open, generally disturbed places - Plant 0.5-3' tall. Flowers orange with 5 red spots, 0.3-0.4" long, 0.2-0.4" wide, tube straight.



CALIFORNIA POPPY (*Eschscholzia californica*) Native Perennial - Papaveraceae Family - (Feb-Sep) - Grassy, open areas - Plant 2-24" tall. Flower w/spreading rim $\leq 0.2''$. Petals 0.8-2.4" long, early spring = large and orange, fall = smaller and yellow.



VENUS THISTLE (*Cirsium occidentale* var. *venustum*) Native Biennial - Asteraceae Family - (May-Jul) - Disturbed areas, grassland, woodland - Plant 1.6-9.8' tall. Head bract cluster 0.6-2" tall, 0.6-3" diam. Flowers gen bright red-pink to red, 0.9-1.4" long.



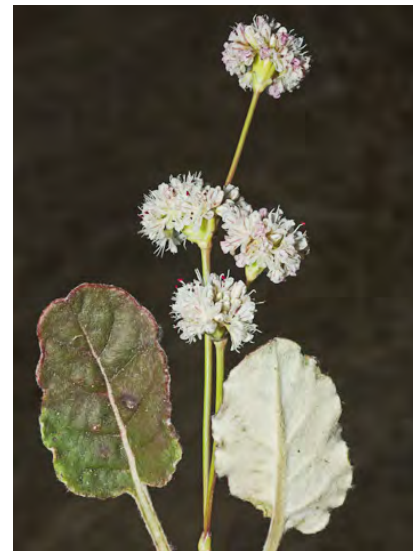
VARIABLE-LEAF NEMOPHILA (*Nemophila heterophylla*) Native Annual - Boraginaceae Family - (Feb-Jun) - Common. Forest, chaparral, roadsides, streambanks - Flower 0.1-0.4" long, unspotted, bract appendages <math>< 0.04''</math> long in fruit.



RUSTY POPCORNFLOWER (*Plagiobothrys nothofulvus*) Native Annual - Boraginaceae Family - (Mar-May) - Common; open woodland, grassland - Plant 8-28" tall, red-purple sap. Flower 0.16-0.35" wide, white. Seed often only 1, horizontal.



FOOL'S ONION (*Triteleia hyacinthina*) Native Perennial - Brodiaeaceae Family - (Mar-Jul) - Grassland, vernal wet meadows, occ drier slopes - Flowering stem 1-2' tall. Leaves 4-16", 0.16-0.9" wide. Flower stalks 0.2-0.6" long. Flowers white, 0.35-0.6" long.



EAR-SHAPED WILD BUCKWHEAT (*Eriogonum nudum* var. *auriculatum*) Native Perennial - Buckwheat Family - (May-Oct) - Common. Sand or gravel - Plant 5-15 dm. Leaves on stem, curled. Inflor smooth. Flowers white to pink, smooth.



WATER SMARTWEED (*Persicaria punctata*) Native Annual-Perennial - Buckwheat Family - (Jun-Nov) - Shallow water, shores, marshes, floodplain forest - Flowers ~0.15" long, 5-lobed, white margins, gland-dotted. Fruit black, shiny.



KNOTWEED (*Polygonum aviculare* subsp. *depressum*) Naturalized Annual - Buckwheat Family - (May–Nov) - Disturbed places - Stem 4-20", mat-forming. Flowers 2-8/leaf axil, ~0.1" long, fused 1/2 length, w/white or pink margins.



CALIFORNIA MAN-ROOT (*Marah fabacea*) Native Perennial - Gourd Family - (Feb–Apr) - Streamsides, washes, shrubby open areas - Vine 6-20' long. Leaves moderately lobed. Flowers cream or white, < 0.3" wide. Fruit spiny all over.



GARDEN ASPARAGUS (*Asparagus officinalis* subsp. *officinalis*) Naturalized Perennial - Lily Family - (Mar–Sep) - Disturbed places, roadsides, fields - Stem 3-10' tall. Flowers green-white, 3-7 mm long. Fruits red, ~0.3" long. Escaped garden vegetable.



GOOSE GRASS (*Galium aparine*) Native Annual - Madder Family - (Apr–Jun) - Grassy, ± shady places - Stem 12-35" long, weak, brittle. Leaves 0.5-1.6" long, in whorls of 6-8. Flowers white, 4-lobed. Fruits covered w/short, hooked hairs.



CHEESEWEED (*Malva parviflora*) Naturalized Annual - Mallow Family - (Mar–May) - Common. Disturbed places - Stem 8-32" long, gen erect, widely branched. Flower bractlets linear. Petals 0.1-0.2" long, pink to gen white. Fruit with flange from flower bracts.



ALKAL-MALLOW (*Malva leprosa*) Native Perennial - Mallow Family - (Apr–Nov) - Valleys, gen saline - Stem 4-16" long. Leaf blade 04.-1.4" long, toothed, densely short-hairy. Petals cream-white to yellow, 0.4-0.6" long.



BINDWEED (*Convolvulus arvensis*) Naturalized Perennial - Morning-glory Family - (Mar–Oct) - Roadsides, open areas in many pl communities - Trailing. Leaf 0.8-1.2" long, w/round tip, pointed lobes. Flowers white to pink, 0.8-1" long. **NOXIOUS.**



SHEPHERD'S PURSE (*Capsella bursa-pastoris*) Naturalized Annual - Mustard Family - (Jan–Oct) - Disturbed areas - Stem 4-20" long. Basal leaves 1.2-2.4" long, dandelion-like. Petals white, 0.08-0.16" long. Fruits 0.16-0.35" long, flat, heart-shaped.



THREADLEAF PEPPERGRASS (*Lepidium nitidum*) Native Annual - Mustard Family - (Feb-Mar) - Alkaline soils, pastures, dry vernal pools, fields, beaches - Fruit stalk flat. Fruit smooth, 0.14-0.24" long, cupped, winged.



HAIRY FRINGEPOD (*Thysanocarpus curvipes*) Native Annual - Mustard Family - (Feb-Jun) - Common. Slopes, washes, moist meadows, woodland, streambanks - Stem 4-24". Leaf clasping w/'ears'. Fruit 0.12-0.24" wide, hanging, often hairy w/perforated edge.



SMALL-FLOWERED NIGHTSHADE (*Solanum americanum*) Native Annual-Perennial - Nightshade Family - (Apr-Nov) - Open, often disturbed places - Flower 0.12-0.24" wide w/3mm lobes, white, anthers ~0.07". Seeds ~0.05". Bracts 0.04-0.08", curled back in fruit.



GAMBEL MILKVETCH (*Astragalus gambelianus*) Native Annual - Pea Family - (Mar-Jul) - Open, grassy areas, scrub - Plant 8-12" tall, slender. Leaflets square-tipped. Flowers 4-15/cluster, white w/purple-tinge, ~0.1" long. Fruits ~0.15" long, reflexed.



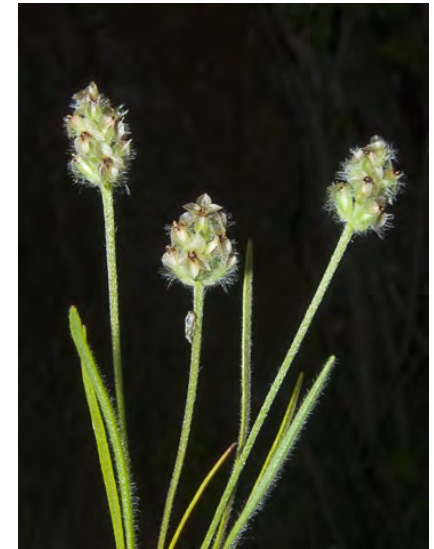
STICKY MOUSE-EAR CHICKWEED (*Cerastium glomeratum*) Naturalized Annual - Pink Family - (Spring) - Dry hillsides, grassland, chaparral, disturbed areas - Flowers 0.1-0.2" long, white, sticky-hairy. Flower bract hairs extend beyond tip; bracts herbaceous.



SMALL-FLOWER CATCHFLY (*Silene gallica*) Naturalized Annual - Pink Family - (Spring-early summer) - Fields, disturbed areas - Plant 4-16". Leaves < 1.4" long. Flower cluster short-hairy, bracts sticky-hairy, petal blade 0.2-0.5" long, smooth to notched, white to pink.



COMMON CHICKWEED (*Stellaria media*) Naturalized Annual - Pink Family - (Feb-Sep) - Oak woodland, meadows, disturbed areas - Plant 2.8-20" tall. Stem w/line of hairs on 1 side. Sepals 0.12-0.18" long. Petals white, 2-lobed, 0.7-0.9x sepals.



CALIFORNIA DWARF PLANTAIN (*Plantago erecta*) Native Annual - Plantain Family - (Mar-May) - Sandy, clay, serpentine soil; grassy slopes, flats, open woodland - Leaf 1.2-5" long, linear, hairy. Flowers + stem 1.2-12" tall, cluster 0.2-1.2" long.



WOODLAND STAR (*Lithophragma* affine) Native Perennial - Saxifrage Family - (Mar-Apr) - Open, grassy slopes - Plant 4-24" tall. Leaves w/3-5 sharp-toothed shallow lobes, stem leaves alternate. Petals 0.2-0.5" long, white. Hypanthium funnel-shaped.



CALIFORNIA SAXIFRAGE (*Micranthes californica*) Native Perennial - Saxifrage Family - (Feb-May(Jun)) - Moist, shady places - Plant 6-14" tall. Leaves 1.6-4" long, at base, egg-shaped, ≥ 0.08 " wide, toothed. Petals white, 0.1-0.18" long.



YARROW (*Achillea millefolium*) Native Perennial - Sunflower Family - (Apr-Sep) - Many habitats - Plant 4"-7" tall. Stem white-hairy. Leaves finely dissected. Flower cluster flat-topped. Flowers white to pink. Widely used in folk medicine.



BIG TARPLANT (*Blepharizonia plumosa*) Native Annual - Sunflower Family - (Jul-Nov) - Dry slopes in grassland - Plant 4-70"+ tall, sticky, aromatic. Rays 5-13, white, 0.2-0.4" long; disk pappus plumose, ~0.1" long. CNPS: SERIOUSLY ENDANGERED.



HORSEWEED (*Erigeron canadensis*) Naturalized Annual - Sunflower Family - (All year) - Disturbed places - Plant 8-79" tall. Gen 1 main stem branching above. Disk flowers yellow; rays white or pink, ≤ 0.04 " long. Head bracts 0.12-0.16" tall, 0.08-0.12" wide.



NORTHERN WATER PLANTAIN (*Alisma triviale*) Native Perennial - Water-plantain Family - (Spring-fall) - Ponds - Plant to 3' tall. Leaf blades 2.2-6" long. Flower clusters usually extend well above leaves. 3 white petals gen 0.04-0.16" long.



YELLOW JOHNNY-TUCK (*Triphysaria eriantha* subsp. *eriantha*) Native Annual - Broom-rape Family - (Mar-May) - Grassland, foothills - Plant 4-14" tall, purple. Leaves 0.4-2" long, 3-7 lobed. Flowers yellow with dark purple beak, 0.4-1" long.



WESTERN BUTTERCUP (*Ranunculus occidentalis* var. *occidentalis*) Native Perennial - Buttercup Family - (Mar-Jul) - Grassy slopes in meadows or open woodland - Plant 4-24". Basal leaves partly divided. Petals 5-6, 0.2-0.4" long. Fruit w/short bristles.



PUNCTURE VINE (*Tribulus terrestris*) Naturalized Annual - Caltrop Family - (Apr–Oct) - Dry, disturbed areas incl roadsides, railways, vacant lots - Sprawling. Leaflets 6-12. Flowers yellow, < 0.2" wide. Fruits star-like, spines 0.16-0.28" long. **NOXIOUS.**



POISON SANICLE (*Sanicula bipinnata*) Native Perennial - Carrot Family - (Apr–May) - Open grassland or pine/oak woodland - Plants 5-24" tall. Leaves 2x pinnate. Flowers yellow, male flower stalk < fruit. Reported to be slightly **TOXIC.**



TURKEY PEA SANICLE (*Sanicula tuberosa*) Native Perennial - Carrot Family - (Mar–Jul) - Open gravelly meadows, chaparral, woodland, pine forest - Plant 2-32" tall, slender. Leaves finely dissected. Flowers bright yellow, male flower stalks > bumpy fruit.



ERECT-POD WINTER CRESS (*Barbarea orthoceras*) Native Perennial - Mustard Family - (Mar–Jul) - Meadows, streambanks, moist woodland, grassland - Stem 8-24". Lower leaves w/large terminal lobe, upper clasping stem. Petals bright yellow, 0.2-0.3" long.



BLACK MUSTARD (*Brassica nigra*) Naturalized Annual - Mustard Family - (Apr–Sep) - Common. Disturbed areas, fields - Plant 1-6' tall. Petals bright yellow, 0.3-0.4" long. Fruit upright, pressed against stem. **INVASIVE weed.**



WESTERN WALLFLOWER (*Erysimum capitatum* var. *capitatum*) Native Biennial - Mustard Family - (Mar–Sep) - Common. Open areas, woodland, sandy areas, chaparral - Petals orange to yellow, fruit 1-4.3" long.



SHORTPOD MUSTARD (*Hirschfeldia incana*) Naturalized Biennial-Perennial - Mustard Family - (Apr–Oct) - Disturbed areas - Stem 16-60". Longest leaves 1.6-4" long, dense-hairy. Petals pale yellow, ~0.2" long. Fruit appressed. Fall-blooming. **INVASIVE.**



CHARLOCK (*Sinapis arvensis*) Naturalized Annual - Mustard Family - (Mar–Sep) - Disturbed areas - Stem 8-39", no rosette. Leaves coarse. Petals 0.35-0.47" long, yellow. Fruit 0.8-1.8", ascending, beak 0.24-0.47" long w/fat base. 3-7 valve veins. **INVASIVE weed.**



COLCHITA (*Acmispon brachycarpus*) Native Annual - Pea Family - (Mar-Jun) - Abundant. Grassland, oak and pine woodland, desert flats and mtns, roadsides - Soft, densely hairy, < 16" tall. Flower yellow, almost stemless, bract lobes 1-2x flower tube.



BIRD'S-FOOT TREFOIL (*Lotus corniculatus*) Naturalized Perennial - Pea Family - (Jun-Sep) - Open, disturbed areas - Leaflets 5, 0.16-0.9" long. Flower cluster 3-7 flowered on 0.6-4.7" stalk. Flowers bright yellow, 0.4-0.55" long, banner often reddish.



CALIFORNIA BURCLOVER (*Medicago polymorpha*) Naturalized Annual - Pea Family - (Mar-Jul) - Common. Chaparral, oak woodland, streambanks, roadsides, disturbed areas - Stem 4-20". Flower yellow, 0.14-0.24" long. Spiny spiral fruits. **INVASIVE.**



SOURCLOVER (*Melilotus indicus*) Naturalized Annual-Biennial - Pea Family - (Apr-Oct) - Open, disturbed areas - Stem 4-24" long. Leaflets 3, 0.4-1" long. Flowers yellow, ~0.1" long.



PURSLANE (*Portulaca oleracea*) Naturalized Perennial - Purslane Family - (Late spring-early fall) - Disturbed soil - Stem 1.2-16" long, spreading. Leaves 0.12-1.2" long, ~ spoon-shaped, flat. Flowers solitary. Petals yellow, 4-6, 0.12-0.2" long.



BLOW WIVES (*Achyrachaena mollis*) Native Annual - Sunflower Family - (Mar-Jun) - Common. Grassy sites, often clay soils - Plant 2-24" tall, soft-hairy. Flowers yellow turning red, 0.1-0.5" wide, extend < 0.1" beyond green bracts. Showy, flat scales attached to seeds.



STICKTIGHT (*Bidens frondosa*) Native Annual - Sunflower Family - (Jun-Oct) - Uncommon. Damp soil, esp disturbed sites - Plant 20-48" tall with square stem. Leaves stalked, leaflets 0.8-3" long. Flowers yellow; rays 0-few, < 0.2"; fruits wedge-shaped, flat.



GLUE-SEED (*Blennosperma nanum* var. *nanum*) Native Annual - Sunflower Family - (Jan-May) - Open, grassy areas, often margins of seeps or vernal pools - Plant 1.2-5"+, succulent, branched. Leaf 1.2-2.4"+ long, 5-15 lobed. Flower bracts purple-tipped w/tuft of hairs.



YELLOW STAR-THISTLE (*Centaurea solstitialis*) Naturalized Annual - Sunflower Family - (May-Oct) - Invasive, roadsides, disturbed grassland or woodland - Plant 4-39" tall. Leaves woolly, extend down the stem. Flower bract spines 0.4-1" long. NOXIOUS weed.



FITCH SPIKEWEED (*Centromadia fitchii*) Native Perennial - Sunflower Family - (May-Nov) - Grassland, ± alkaline flats, vernal pools, woodland, disturbed sites, serpentine - Plant 2-20" tall. Leaves below flowers spiny, sticky.



GREAT VALLEY GUMPLANT (*Grindelia camporum*) Native Perennial - Sunflower Family - (May-Nov) - Sandy or saline bottomland, roadsides - Stem non-woody, 2-8' tall, whitish. Leaves gen resinous. Head to 1.2" wide, bracts bend downward.



COMMON SUNFLOWER (*Helianthus annuus*) Native Perennial - Sunflower Family - (Jun-Oct) - Disturbed areas, scrub, grassland, many other habitats - Plant < 10'. Leaf blades 4-16" long, <= 2x width. Rays 0.2-2" long, disks reddish. Head bracts 0.2-0.3" wide.



BRISTLY OX-TONGUE (*Helminthotheca echioides*) Naturalized Annual-Biennial - Sunflower Family - (All year) - Common. Disturbed areas - Stem 1-6.5' tall, bristly. Leaf 2-8" long, covered with prickly bumps. Flower heads 0.8-1.6" wide. INVASIVE weed.



HEERMANN TARPLANT (*Holocarpha heermannii*) Native Annual - Sunflower Family - (May-Nov) - Grassland - Plant 0.2-1.2 m tall, densely very-short-hairy, glandular. Ray flowers 3-13, yellow. Disk flowers yellow to brown. Yellow anthers.



STICKY TARPLANT (*Holocarpha virgata* subsp. *virgata*) Native Annual - Sunflower Family - (May-Nov) - Grassland - Plant 8-48" tall, glandular, not very-short-hairy. Heads small, at branch ends. Ray flowers 3-8; disk flowers 9-25, anthers black.



PRICKLY LETTUCE (*Lactuca serriola*) Naturalized Annual - Sunflower Family - (May-Oct) - Abundant. Disturbed places - Stem 1.6-10' tall, prickly-bristly. Leaves deeply-lobed, midvein and edges prickly-bristly. Flowers pale yellow, 0.16-0.2" wide.



PINEAPPLE WEED (*Matricaria discoidea*)
Naturalized Annual - Sunflower Family -
(Feb–Aug) - Abundant. Disturbed sites,
riverbanks - Plant 4-12" tall, sweet-scented.
Heads pineapple-shaped, ~ 0.4" wide; head stalk
to 0.6" long.



COMMON GROUNDSEL (*Senecio vulgaris*)
Naturalized Annual - Sunflower Family -
(Feb–Jul) - Common. Disturbed areas - Plant
4-24" tall, not hairy, w/1-10+ stems. Flower head
bracts with black-tips. Milky sap.



PRICKLY SOW THISTLE (*Sonchus asper* subsp.
asper) Naturalized Annual - Sunflower Family -
(All year) - Common. Slightly moist disturbed
sites, along streams - Plant 4-48". Leaf teeth
prickly. Basal lobes of upper leaves rounded,
curving downward.



COMMON SOW THISTLE (*Sonchus oleraceus*)
Naturalized Annual - Sunflower Family - (All year)
- Abundant. Disturbed places - Plant 4-55" tall.
Leaf teeth soft to touch. Basal lobes of upper
leaves sharply pointed, straight to curving
upward.



BUSH LUPINE (*Lupinus albus* var. *albus*)
Native Perennial - Pea Family - (Mar–Jun) -
Common. Chaparral, foothill woodland - Shrub
2-16' tall, gen distinct trunk, green to silvery.
Flowers 0.35-0.6" long, purple, banner back
hairy, keel top ciliate mid to tip.



BLUE OAK (*Quercus douglasii*) Native Perennial
- Oak Family - (Apr–May) - Dry slopes, interior
foothills, woodland - Tree 20-66', deciduous. Bark
checkered into scales. Leaves 1.2-2.4" long,
bluish green, unlobed to shallowly lobed, lacking
bristles.



VALLEY OAK (*Quercus lobata*) Native Perennial
- Oak Family - (Mar–Apr) - Slopes, valleys,
savanna - Tree < 115' tall, deciduous. Leaves
2-5" long, not leathery, deeply lobed, lobes
without bristles. Acorns 1.2-2" long, slender, cup
0.4-1.2" deep.



INTERIOR LIVE OAK (*Quercus wislizeni* var.
wislizeni) Native Perennial - Oak Family -
(Mar–May) - Interior canyons, slopes, pine/oak
woodland - Tree < 75'. Leaf blades 0.8-2" long,
hairless, flat. Acorns on 2nd year twigs, shell
woolly inside.



MONTEREY PINE (*Pinus radiata*) Native Perennial - Pine Family - - - Closed-cone-pine forest, oak woodland - Tree < 125' tall. Mature bark black, deep-grooved. Needles 3 per bundle, 2.4-5.9" long. Seed cone 2.4-6" long, asymmetric, opening 2nd year.



GRAY PINE (*Pinus sabiniana*) Native Perennial - Pine Family - - - Foothill woodland, n oak woodland, chaparral, infertile soils in mixed-conifer and hardwood forests - Tree < 125' tall. Needles in 3s, 3.5-15" long, gray-green. Cone brownish, seed > wing.



WESTERN POISON OAK (*Toxicodendron diversilobum*) Native Perennial - Sumac Family - (Apr-Jun) - Canyons, slopes, chaparral, coastal scrub, oak woodland - Shrub or vine. Leaflets 3, red in fall, mid leaflet stalked. Flowers green. Fruits white. TOXIC.



CALIFORNIA SAGEBRUSH (*Artemisia californica*) Native Perennial - Sunflower Family - (Aug-Nov) - Coastal scrub, chaparral, open woodland - Shrub 2-8.5' tall, rounded. Leaves 0.4-4", hairy, thread-like, lt green to gray. Flower heads < 5 mm wide. Sage-scented.



N. CALIFORNIA BLACK WALNUT (*Juglans hindsii*) Native Perennial - Walnut Family - (Apr-May) - Along streams, disturbed slopes - Tree 20-75'. Leaflets 13-21, 3-5". Fruit 1.4-2" wide. CNPS: SERIOUSLY ENDANGERED (unplanted).



FREMONT COTTONWOOD (*Populus fremontii* subsp. *fremontii*) Native Perennial - Willow Family - (Mar-Apr) - Scattered. Alluvial bottomland, streambanks - Tree < 66' tall. Leaves heart-shaped to triangular, coarsely scalloped, blade 1.2-2.8" long.



BIG-BERRY MANZANITA (*Arctostaphylos glauca*) Native Perennial - Heath Family - (Dec-Mar) - Rocky slopes, chaparral, woodland - Shrub-small tree, 3-26' tall. Twigs glabrous. Leaves smooth, waxy-white. Flower stalk 0.3-0.4" long, sticky-hairy.



CHRISTMAS BERRY / TOYON (*Heteromeles arbutifolia*) Native Perennial - Rose Family - (May)Jun-Aug) - Chaparral, oak woodland, mixed-evergreen forest - Shrub-tree < 33' tall, evergreen. Leaf 2-4" long. Petals white, < 0.16" long. Fruit bright red.



ALMOND (*Prunus dulcis*) Naturalized Perennial - Rose Family - (Feb-Mar) - Canyons, roadsides, grassland (as waif) - Tree 16-26' tall. Leaf blades 1-4" long. Flowers 1-3/cluster. Petals pink to nearly white, 0.5-1" long. Fruit 1-1.6" long, hairy. Cultivar.



CALIFORNIA BUCKEYE (*Aesculus californica*) Native Perennial - Soapberry Family - (May-Jun) - Dry slopes, canyons, borders of streams - Large shrub or tree 13-39' tall. 5-7 leaflets. Flowers white to pale rose. Large seeds toxic but edible after leaching out saponins.



MULE FAT (*Baccharis salicifolia* subsp. *salicifolia*) Native Perennial - Sunflower Family - (All year) - Riparian woodland, canyon bottoms, disturbed sites, often forming thickets - Shrub < 13' tall, often sticky. Leaves to 6" long, with 1-3 main veins.



CALIFORNIA MATCHWEED (*Gutierrezia californica*) Native Perennial - Sunflower Family - (Jul-Nov) - Grassland, arid woodland and shrubland, serpentine - Stem 8-40" long, woody base. Leaf narrow, flat, <= 2" long. Ray flowers 4-13, 0.1-0.3" long.

