



Wild Plants of Coyote Hills 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 Coyote Hills 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

Wild Plants of Coyote Hills Regional Park - Sorted by Form, Color and Family

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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.



BROAD-FRUITED BUR-REED (*Sparganium eurycarpum* var. *eurycarpum*) Native Perennial - Cattail Family - (Jun-Aug) - Marshes, lakes, ponds, along streams - Plant to 8' tall. Flower cluster stem branched, clusters spherical. Styles 2.



NARROW-LEAVED CATTAIL (*Typha angustifolia*) Native Perennial - Cattail Family - (May-Aug) - Nutrient-rich freshwater to brackish marshes, wet disturbed places - Plant 4.9-9.8' tall. Leaves gen < 0.4" wide. Flower cluster gap > 0.4".



BROAD-LEAVED CATTAIL (*Typha latifolia*) Native Perennial - Cattail Family - (Jun-Jul) - Unpolluted to nutrient-rich freshwater (brackish) marshes - Plant 4.9-9.8' tall. Widest leaves 0.4-1.1" wide. Flower cluster with no gap between flower types.



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 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.



CALIFORNIA BROME (*Bromus carinatus* var. *carinatus*) Native Perennial - Grass Family - (Apr-Aug) - Coastal prairies, openings in chaparral, plains, open oak and pine woodland - Plant 20-40" tall. Flower cluster 6-16" long. Spikelet 0.8-1.6" long. Lemma 0.5-0.8" long, hairy, awn 0.3-0.6" long.



RESCUE GRASS (*Bromus catharticus* var. *catharticus*) Naturalized Annual-Perennial - Grass Family - (Apr-Nov) - Open, disturbed places - Plant 8-48" tall. Flower cluster 3-12" long, ~ open. Spikelet flattened, 0.6-1.2" long. Lemma 0.4-0.7" long, awn < 0.2 " long.



RIPGUT GRASS (*Bromus diandrus*) Naturalized Annual - Grass Family - (Apr-Jul) - Open, gen disturbed areas - Plant 6-40" tall. Spikelet 1-2.8" long. Lemma body 0.8-1.2" long, awn > 1.2 " long. Barbed seeds can stick in flesh of animals. **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.



FOXTAIL CHESS (*Bromus madritensis* subsp. *madritensis*) Naturalized Annual - Grass Family - (Apr-Jan) - Disturbed areas, roadsides - Plants 4-20" tall. Stem and sheathes smooth. Flower cluster branches visible, lower spikelets erect, $>$ stalk.



RED BROME (*Bromus madritensis* subsp. *rubens*) Naturalized Annual - Grass Family - (Mar-Jun) - Disturbed areas, roadsides - Plant 4-20". Flower cluster condensed, branches obscure, $<$ spikelets. Stem & sheathes hairy. **INVASIVE** weed.



HAIRY PAMPAS GRASS (*Cortaderia jubata*)
Naturalized Perennial - Grass Family - (Sep–Feb)
- Disturbed sites, many habitats, esp coastal -
Plant 6-23' tall. Leaf blades 0.1-0.5" wide,
sheaths hairy. NOXIOUS weed.



SWAMP PRICKLE GRASS (*Crypsis schoenoides*)
Naturalized Annual - Grass Family
- (Jun–Oct) - Wet places - Plant mat-like. Stem
2-30" long. Leaf blade 1-4" long. Flower cluster
0.1-3" long, 0.2-0.6" wide. Spikelet ~0.1" long.



ORCHARD GRASS (*Dactylis glomerata*)
Naturalized Perennial - Grass Family -
(May–Aug) - Disturbed, often moist sites - Stems
2-5, 12-79+ tall. Leaf blade 0.12-0.24" wide.
Flower cluster 1.6-8" long. Spikelets crowded on
1 side. Lemmas short-awned at tip. INVASIVE
weed.



CALIFORNIA OAT GRASS (*Danthonia californica*)
Native Perennial - Grass Family -
(Apr–Aug) - Gen moist meadows, open woodland
- Stem 12-52" tall. Flower cluster 0.8-2.4" long.
Spikelets 3-6, 0.5-1" long, awn 0.16-0.5" long.



SALT GRASS (*Distichlis spicata*) Native
Perennial - Grass Family - (Apr–Sep) - Salt
marshes, coastal dunes, moist, alkaline areas -
Stem 4-20" long. Leaves 0.8-4" long, flat, stiff.
Flower cluster 0.8-3" long, narrow. Spikelets
straw-colored to purple, 2-20/group, 0.24-0.8"
long.



WESTERN WILD-RYE (*Elymus glaucus* subsp.
glaucus) Native Perennial - Grass Family -
(Jun–Aug) - Open areas, chaparral, woodland,
forest - Tufted. Stem 12-55" tall. Leaf 0.2-0.5"
wide, flat. Spikelets 0.3-0.6" long, 2-4 per node.
Lemma awn 0.4-1.2" long.



BIG SQUIRRELTAIL (*Elymus multisetus*) Native
Perennial - Grass Family - (May–Jul) - Open,
sandy to rocky areas - Tufted. Stem 6-24" tall.
Leaf 0.06-0.2" wide. Spikelet 0.4-0.6" long.
Glume divisions needle-shaped, lemma awn 1-4"
long.



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.**



MEDITERRANEAN BARLEY (*Hordeum marinum* subsp. *gussoneanum*) Naturalized Annual - Grass Family - (Apr-Jun) - Dry to moist, disturbed sites - Stem 4-20". Leaf blades to 32" long, auricles < 0.08". Central lemma awn 0.25-0.7" long. **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.**



WALL BARLEY (*Hordeum murinum* subsp. *murinum*) Naturalized Annual - Grass Family - (Feb-May) - Moist, gen disturbed sites - Stem 1-2'. Leaf auricles notable. Central spikelet stalk 0-0.02". Central floret gen = lateral florets. **INVASIVE weed.**



HARDING GRASS (*Phalaris aquatica*) Naturalized Perennial - Grass Family - (Apr-Aug) - Disturbed areas, roadsides - Plant 16-79" tall, tufted. Flower cluster 0.6-6" long, unbranched. Lower florets 1 or unequal. Glume wing untoothed. **INVASIVE weed.**



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.



DITCH BEARD GRASS (*Polygogon interruptus*) Naturalized Perennial - Grass Family - (May-Aug) - Common. Streambanks - Stem 20-35" tall, clumped. Leaf 0.2-7.7" long, 0.12-0.24" wide. Flower cluster 0.6-7" long. Glume < 0.1" long, awn < 0.12" long.



RABBITFOOT GRASS (*Polypogon 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 < 0.1". **INVASIVE.**



FOOTHILL NEEDLE GRASS (*Stipa lepida*) Native Perennial - Grass Family - (Mar–Jun) - Dry slopes, chaparral, grassland, savanna, coastal scrub - Stem 14-39" tall. Leaf blade 4.7-9.1" long, narrow. Glumes 0.2-0.6" long. Awn 0.8-2" long.



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.



SPREADING RUSH (*Juncus patens*) Native Perennial - Rush Family - (Jun–Oct) - Marshy places, creeks, seeps - Plant 12-41" tall, densely tufted. Stems blue-gray-green & distinctly grooved when fresh. Stamens 6.



SEACOAST BULRUSH (*Bolboschoenus robustus*) Native Perennial - Sedge Family - (Summer) - Brackish to saline coastal marshes - Plant 20-60" tall. Stem sharply triangular. Flower cluster dense, stemless, just above bracts. Spikelets 5-25, 0.4-1.2" long.



TALL NUTTALL'S SEDGE (*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.



OLNEY'S THREE-SQUARE BULRUSH (*Schoenoplectus americanus*) Native Perennial - Sedge Family - (Summer) - Mineral-rich or brackish marshes, shores, fens, springs - Stem 1.2-8.2' tall, sharply 3-angled, not leafy. Flower cluster head-like.



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.



FLATFACE DOWNINGIA (*Downingia pulchella*) Native Annual - Bellflower Family - (Apr-Jun) - Vernal pools, roadside ditches - Plant 8-16". Flower 0.3-0.8" long, 2 yellow patches alternate w/3 purple patches. Anthers 0.1"+, exserted.



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.



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.



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.



ALKALI HEATH (*Frankenia salina*) Native Perennial - Frankenia Family - (Apr-Sep) - Salt marshes, alkali flats - Matted subshrub, to 1' tall. Leaf blade 0.16-0.6" long, <= 0.24" wide. Petals white to pink or blue-purple, 0.24-0.55" long; gen 6 stamens.



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.



WESTERN BLUE-EYED-GRASS (*Sisyrinchium bellum*) Native Perennial - Iris Family - (Mar-May) - Common. Open, gen moist, grassy areas, woodland - Stem < 25" tall. Leaves iris-like. Petals 6, blue-purple with dark veins, 0.4-0.7" long.



WESTERN MARSH-ROSEMARY (*Limonium californicum*) Native Perennial - Leadwort Family - (Jul-Dec) - Common; coastal dunes, salt marshes - Plant < 14" tall. Leaves all at base, blades 2-6" long, thick, unlobed. Flowers lavender to whitish.



GRASS-POLY (*Lythrum hyssopifolia*) Naturalized Annual-Perennial - Loosestripe Family - (Apr-Oct) - Marshes, drying pond margins, disturbed ground - Stem 4-24". Leaves 0.2-1.2" long, ~ elliptical. Petals pink, 0.1-0.2" long. 2 awl-like appendages. INVASIVE weed.



BULL MALLOW (*Malva nicaeensis*) Naturalized Annual - Mallow Family - (Mar-Jun) - Disturbed places - Stem 0.7-2'. Leaf blade 1.2-4.7" wide, 5-7 shallow lobes. Bractlets egg-shaped, 0.16-0.2" long. Petals pink to blue-violet, 0.2-0.5" long.



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.



ROSE CLOVER (*Trifolium hirtum*) Naturalized Annual - Pea Family - (Apr-May) - Disturbed areas, roadsides - Head with 1-2 bract-like leaves immed below. Flowers pink, 0.4-0.6" long, densely-bristly in fruit. INVASIVE weed.



SPRING VETCH (*Vicia sativa* subsp. *sativa*) Naturalized Annual - Pea Family - (Mar-Jun) - Roadsides, disturbed areas, grassland, open areas in oak and riparian woodlands - Flowers 1-2 at leaf bases, pink-purple to white, 0.7-1.2" long. Leaflets 0.16-0.4" wide.



SPARSELY HAIRY VETCH (*Vicia villosa* subsp. *varia*) Naturalized Annual-Biennial - Pea Family - (Mar-Jun) - Grassland, roadside, disturbed areas - Stems w/few hairs. Flowers 10-20, blue-purple to white, 0.4-0.55" long. Lower bract lobes 0.04-0.1" long.



RED SAND-SPURRY (*Spergularia rubra*) Naturalized Annual-Perennial - Pink Family - (Spring-fall) - Forest, meadows, mud flats, disturbed - Plant 1.6-10". Leaf non-fleshy, whorls w/large white bracts. Petals pink. Stamens 6-10. Sepals < 0.16".



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.



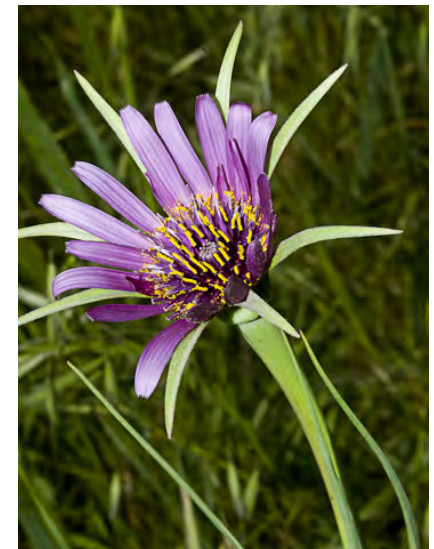
PURPLE STAR-THISTLE (*Centaurea calcitrapa*) Naturalized Annual-Biennial - Sunflower Family - (Apr-Nov) - Pastures, disturbed places - Plant 8-40"+. Basal leaves 1-2x divided into narrow lobes. Flowers purple with spiny bracts. NOXIOUS weed.



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.



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.



PURPLE SALSIFY (*Tragopogon porrifolius*) Naturalized Biennial-Perennial - Sunflower Family - (Mar-Nov) - Common. Disturbed places - Plant 16-39" tall, milky sap. Leaves 0.8-1.6" long, very narrow, waxy blue. Flowers purple.



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.**



FIDDLE DOCK (*Rumex pulcher*) Naturalized Perennial - Buckwheat Family - (May-Sep) - Disturbed places, meadows, moist or dry habitats - Stem 8-24" long, branches widely spreading. Leaf blades 1.6-4" long, 1.2-2" wide. Valves w/2-5 teeth.



FAT-HEN (*Atriplex prostrata*) Native Annual - Goosefoot Family - (Apr-Oct) - Wet places, marshes - Plant 4-48" tall, branched at base. Leaves alternate, blades 0.4-3.5" long, triangular, green, not dense-scaly underneath.



PACIFIC PICKLEWEED (*Salicornia pacifica*) Native Perennial - Goosefoot Family - (Jul-Nov) - Salt marshes, alkaline flats - Plant 4-28" tall, branching from base, branches opposite. Flower clusters 0.8-3.3" long, 0.1-0.2" wide.



RUSSIAN THISTLE (*Salsola tragus*) Naturalized Annual-Perennial - Goosefoot Family - (Jul-Oct) - Common. Disturbed places - Plant < 5' tall. Stem gen red-stripped, widely branched. Leaves succulent, 0.3-2" long, upper spine-tipped. **NOXIOUS.**



HORNWORT (*Ceratophyllum demersum*) Native Annual - Hornwort Family - (Jun-Aug) - Common. Ditches, lakes, ponds, pools, slow watercourses; water 0.1-4 m deep, fresh to ± brackish, medium to high nutrient levels. - Leaves forked, serrate, stiff.



HOARY NETTLE (*Urtica dioica* subsp. holosericea) Native Perennial - Nettle Family - (Jun-Sep) - Meadows, seeps, springs, margins of marshes, streams, lakes, moist areas in chaparral, coastal scrub - Plant 3.3-9.8' tall, grayish, covered with stinging hairs.



DWARF NETTLE (*Urtica urens*) Naturalized Annual - Nettle Family - (Jan-Jun) - Disturbed areas, stream banks, shaded areas in grassland, oak woodland, chaparral, coastal-sage scrub, riparian woodland - Leaf teeth sharp. Petals 2 large, 2 small, free to base.



CUT-LEAF PLANTAIN (*Plantago coronopus*)
Native Annual-Biennial - Plantain Family -
(Apr-Jul) - Coastal bluffs, salt marshes, trampled
places, chaparral, grassy flats - Leaves 1.6-10"
long, tooth-like lobes. Flower: stems 1-6, 2-20"
tall, cluster 0.8-8" long.



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.



DAGGERLEAF COTTONROSE (*Logfia gallica*)
Naturalized Annual - Sunflower Family -
(Mar-Jul) - Bare or grassy openings, burns -
Plant 1-20" tall, gen cobwebby. Leaves
awl-shaped, stiff, > flower heads. Flowers brown to
yellow.



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.



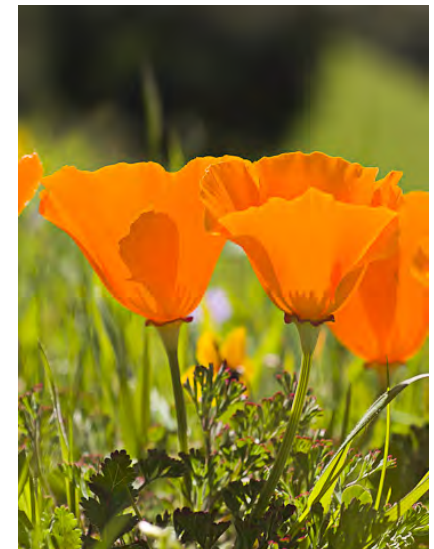
COCKLEBUR (*Xanthium strumarium*) Native
Annual - Sunflower Family - (Jul-Oct) -
Disturbed, seasonally wet, often alkaline sites, in
grassland, marshes, watercourses - Plant 4-32"
tall. Stem spineless. Bur 0.4-1.2"+ long.



SHEEP SORREL (*Rumex acetosella*) Naturalized
Perennial - Buckwheat Family - (Apr-Jul) - ±
Disturbed, often acidic places - Stem < 16". Leaf
gen basal, blade 0.8-2.4" long, lower
arrowhead-shaped w/2 lobes. Flowers yellowish,
turn reddish. INVASIVE.



SCARLET PIMPERNEL (*Anagallis arvensis*)
Naturalized Annual - Myrsine Family - (Mar-May)
- Common. Disturbed places, ocean beaches -
Plants 2-16" tall. Flowers 0.2-0.3" long, salmon or
occasionally blue. Leaves TOXIC, can cause
dermatitis.



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



CALIFORNIA FIGWORT (*Scrophularia californica*) Native Perennial - Snapdragon Family - (Mar-Jul) - Common; damp places, chaparral, roadsides - Stem 2.6-4' tall, square x-section. Leaves opposite, to 7" long, triangular, toothed. Flowers 0.3-0.5" long, upper lips red to maroon, lower paler or yellowish.



SEASIDE HELIOTROPE (*Heliotropium curassavicum* var. *oculatum*) Native Perennial - Borage Family - (Feb-Oct) - Moist to dry, saline to alkaline soils, gen near water - Plant fleshy. Leaf 0.4-2.4 cm long. Flowers white w/ yellow center, 0.12-0.2" 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. Inflo smooth. Flowers white to pink, smooth.



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.



BUR-CHERVIL (*Anthriscus caucalis*) Naturalized Annual - Carrot Family - (Apr-Jun) - Generally shady places - Plant 18-40" tall. Flowers white; flower stalk \geq fruit length. Fruits 0.1-0.2" long with curved "velcro" bristles. Leaves fern-like, triangular outline.



POISON HEMLOCK (*Conium maculatum*) Naturalized Biennial - Carrot Family - (Apr-Jul) - Common. Moist, esp disturbed places - Plants 2-10' tall. Stems purple-spotted. Leaves fern-like, gen 2x divided. Flowers white. **TOXIC. INVASIVE weed.**



WAVYLEAF SOAP PLANT (*Chlorogalum pomeridianum* var. *pomeridianum*) Native Perennial - Century Plant Family - (May-Aug) - Common. Open grassland, chaparral, woodland - Plant 1-8' tall, flowers at night. Bulb juices lather in water.



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 (*Malvella 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.



SHORTSTEM MORNING-GLORY (*Calystegia subcaulis* subsp. *subcaulis*) Native Perennial - Morning-glory Family - (Apr–Jun) - Dry, open scrub or woodland - Stem gen ~0.8" long. Flowers 1.3-2.4" long, white or cream. Bractlets concealing flower bracts.



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.



HEART-PODDED HOARY CRESS (*Lepidium draba*) Naturalized Perennial - Mustard Family - (Apr–Aug) - Disturbed areas, saline soils, pastures, fields - Stem gen 9-26" tall. Flowers white. Sepals smooth. Fruit smooth, heart-shaped. **NOXIOUS weed.**



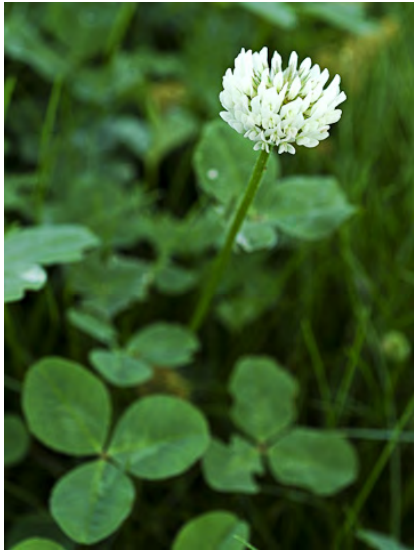
PERENNIAL PEPPERGRASS (*Lepidium latifolium*) Naturalized Perennial - Mustard Family - (Jun–Sep) - Pastures, disturbed areas, fields, grassland, saline meadows, streambanks, sagebrush scrub, edge of marshes - Plant 14-47". Petals white. **NOXIOUS.**



PROSTRATE PEPPERGRASS (*Lepidium strictum*) Naturalized Annual - Mustard Family - (Apr–Jun) - Uncommon. Disturbed areas, woodland, slopes - Stem 2.8-6.7", gen crawling. Leaves pinnately lobed. Flower cluster crowded, stalk < fruit, sepals stay.



WHITE SWEETCLOVER (*Melilotus albus*) Naturalized Annual-Biennial - Pea Family - (May–Sep) - Locally abundant. Pastures, open disturbed sites - Stem 1.6-6.6" long. Leaflets 3, 0.4-1" long, toothed. Flowers white, 0.14-0.2" long.



WHITE CLOVER (*Trifolium repens*) Naturalized Perennial - Pea Family - (Feb-Dec) - Disturbed areas - Stem creeping. Leaflets 0.2-1" long, oval, wider at tip end. Flower cluster 0.4-1" wide. Flowers white, 0.28-0.43" long, becoming reflexed. No head bract.



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.



STICKWORT (*Spergula arvensis*) Naturalized Annual - Pink Family - (Spring-early summer) - Open slopes, pine woodland, sand dunes, fields, disturbed areas - Stem 4-16"+. Leaves 0.4-2" long, linear, in whorls.



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.



ENGLISH PLANTAIN (*Plantago lanceolata*) Naturalized Annual - Plantain Family - (Apr-Aug) - Common. Disturbed areas - Leaves basal, hairy, 2-10" long, <= 1" wide. Flowers + stem 8-31" tall, flower cluster 0.8-3" long. **INVASIVE**, lawn weed.



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.



MARSH BACCHARIS (*Baccharis glutinosa*) Native Perennial - Sunflower Family - (Jul-Oct) - Coastal freshwater and saltwater marshes, streambanks - Plant herbaceous, sticky, 3-6' tall. Leaf blades lance-shaped, < 5" long, 0.5-1.2" wide.



ENGLISH DAISY (*Bellis perennis*) Naturalized Perennial - Sunflower Family - (Dec-Sep) - Damp, grassy areas - Herbaceous lawn weed. Leaves 0.8-4" long, spoon-shaped. Ray flowers white, 0.3-0.4" long, narrow. Disk flowers yellow, ~0.1" long.



LEMON VERBENA (*Phyla nodiflora*) Native Perennial - Vervain Family - (May-Nov) - Wet places, pond margins - Mat-like. Leaf blade 0.2-1.2" long, < 0.4" wide, 5-11 teeth. Flowers white to red. Flower stem 0.6-3.5" tall. Ornamental.



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.



CALIFORNIA BUTTERCUP (*Ranunculus californicus* var. *californicus*) Native Perennial - Buttercup Family - (Mar-Aug) - Grassland, open woodland - Petals 9-17, 0.28-0.55" long, often > 2x width. Fruit body 0.07-0.13" long, 0.05-0.09" wide, smooth.



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.



FENNEL (*Foeniculum vulgare*) Naturalized Perennial - Carrot Family - (May-Sep) - Roadsides, disturbed sites - Plants 3-6.5' tall, anise-scented. Stems waxy-blue, canelike. Flowers yellow. Leaf segments thread-like, edible when young. INVASIVE weed.



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.



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.



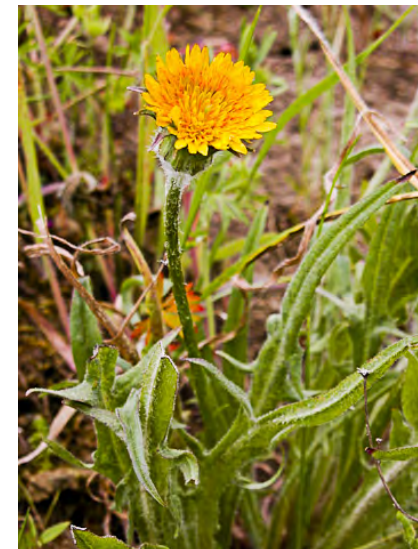
BIRD'S-FOOT TREFOIL (*Lotus corniculatus*) Naturalized Perennial - Pea Family - (Jun-Sep) - Open, disturbed areas - Leaflets 5, 0.16-0.9" long. Flower cluster 3-7 flowered on 0.6-4.7" stalk. Flowers bright yellow, 0.4-0.55" long, banner often reddish.



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.



GIANT NATIVE DANDELION (*Agoseris grandiflora* var. *grandiflora*) Native Perennial - Sunflower Family - (Apr-Jul) - Grassland, scrub, woodland - Plant 10-40". Leaf lobes point up. Flower rosy-purple, variable-sized bracts. Seed tapers to beak > 2x body length. Leaf lobes point upward.



TOCALOTE (*Centaurea melitensis*) Naturalized Annual - Sunflower Family - (Apr-Jul) - Disturbed fields, open woodland - Plant 4-39", gray-hairy, resinous. Leaves 0.8-6" long. Flowers yellow, 0.4-0.8" long, bracts tipped w/purple spines. **NOXIOUS** weed.



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.



COMMON SPIKEWEED (*Centromadia pungens* subsp. *pungens*) Native Annual - Sunflower Family - (Apr-Nov) - Grassland, saltbush scrub, disturbed sites - Spiny. Leaves smooth or rough to the touch.



BRASS-BUTTONS (*Cotula coronopifolia*) Naturalized Perennial - Sunflower Family - (Mar-Dec) - Common. Saline and freshwater marshes, mud flats - Plant 2-16"+ tall, smooth, ± fleshy. Leaves linear to lance-shaped w/linear teeth or lobes. **INVASIVE.**



FLAX-LEAVED HORSEWEED (*Erigeron bonariensis*) Naturalized Annual - Sunflower Family - (All year) - Disturbed sites - Plant 4-39" tall, gray-hairy. Upper leaves narrow. Disk flowers yellow, disk-like rays white. Head bracts 0.14-0.2" tall.



WESTERN GOLDENROD (*Euthamia occidentalis*) Native Perennial - Sunflower Family - (Jul-Nov) - Marshes, streambanks, meadows - Stem < 6.6', smooth. Leaves < 4" long, <= 0.24" wide, w/dark glandular pits. Flowers yellow, rays 0.06-0.1" long.



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.



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.**



SMOOTH CAT'S-EAR (*Hypochaeris glabra*) Naturalized Annual - Sunflower Family - (Mar-Jun) - Common. Disturbed areas, grassland, open woodland - Plant 4-24" tall, smooth. Rays 0.2-0.3" long, barely > head bracts. Only inner fruit beaked. **INVASIVE.**



ROUGH CAT'S-EAR (*Hypochaeris radicata*) Naturalized Perennial - Sunflower Family - (Apr-Jul) - Disturbed areas, grassland, open woodland - Plant 4-32" tall, rough-hairy. Rays 0.4-0.6" long, well exceeding head bracts. Fruits all beaked. **INVASIVE weed.**



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.



COAST TARWEED (*Madia sativa*) Native Annual - Sunflower Family - (May-Oct) - Grassy, open, or disturbed sites - Plant 3.5-10 dm, hairy, all glandular. Leaf 0.8-7.1" long, 0.1-0.7" wide. Rays green-yellow, 8-13, 0.06-0.16" long. Head bracts 0.24-0.6" tall.



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.



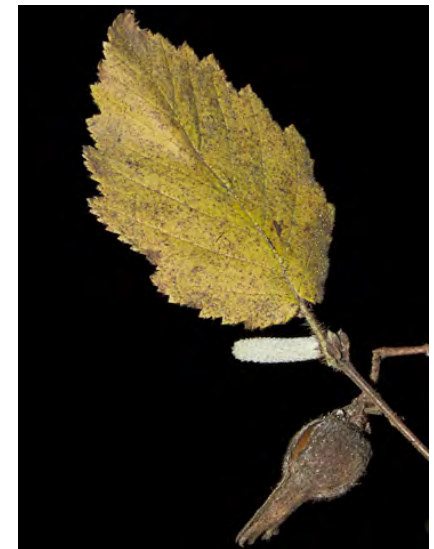
COMMON DANDELION (*Taraxacum officinale*)
Naturalized Biennial-Perennial - Sunflower Family
- (All year) - Abundant. Esp disturbed areas -
Stem hollow. Leaves bright green with sharp
down-pointing lobes. Outer head bracts reflexed.
Fruit ~ brown.



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.



WHITE ALDER (*Alnus rhombifolia*) Native
Perennial - Birch Family - (Apr-Jun) - Along
permanent streams - Tree. Leaves flat, not rusty
underneath, margins serrate, not rolled under.
Female flowers cone-like. Wood used for
furniture and for smoking meats.



CALIFORNIA HAZELNUT (*Corylus cornuta*
subsp. *californica*) Native Perennial - Birch
Family - (Jan-Mar) - Common. Many habitats,
esp moist, shady places - Shrub, small tree < 13'
tall. Leaf velvety-hairy. Fruits 0.8-1.2" long in
papery bracts, 1-2/group.



COAST LIVE OAK (*Quercus agrifolia* var. *agrifolia*) Native Perennial - Oak Family - (Mar-Apr) - Valleys, slopes, mixed-evergreen forest, woodland - Tree 30-80'. Leaves convex, hair-tuft below in vein axils. Acorns on 1st year twigs, shell glabrous inside.



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.



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.



BOX ELDER (*Acer negundo*) Native Perennial - Soapberry Family - (Mar-Apr) - Streamsides, bottomland. - Tree < 66' tall. Leaflets in 3s. Group of 10-250 hanging flowers appear with leaves. Winged fruits. Widely planted ornamental.



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. It green to gray. Flower heads < 5 mm wide. Sage-scented.



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



WESTERN SYCAMORE (*Platanus racemosa*) Native Perennial - Sycamore Family - (Feb-Apr) - Common. Streamsides, canyons, arroyos - Tree 33-115' tall. Bark peeling pale. Leaf blades 4-10" long, palmately lobed, smooth to hairy above, short-woolly under.



BLUE ELDERBERRY (*Sambucus nigra* subsp. *caerulea*) Native Perennial - Muskroot Family - (Mar-Sep) - Common. Streambanks, open places in forest - Shrub 7-26' tall. Flower cluster flat-topped, 1.6-13" diam, petals spreading. Fruits waxy blue-black.



BLUE GUM (*Eucalyptus globulus*) Naturalized Perennial - Myrtle Family - (Oct-Jan) - Common. Disturbed areas - Tree < 200' tall. Flowers single, large, gen stemless. Leaves 4-12" long, 1-1.6" wide; used medicinally by Aboriginals. INVASIVE weed.



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.



CALIFORNIA BLACKBERRY (*Rubus ursinus*) Native Perennial - Rose Family - (Mar-Jul) - Open, disturbed areas - Stem round, bristly/prickly. Leaves simple to 3 leaflets, underside green. Plants unisexual. Petals 0.24-0.6" long, white. Blackberry-type fruit.



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.



COYOTE BRUSH (*Baccharis pilularis* subsp. *consanguinea*) Native Perennial - Sunflower Family - (Jul-Dec) - Coastal bluffs, woodland, grassland, disturbed sites, occ on serpentine - Shrub < 15' tall, brittle, common. Leaves gen 0.6-1.6" long.



BUSH MONKEYFLOWER (*Mimulus aurantiacus* var. *aurantiacus*) Native Perennial - Lopseed Family - (Mar-Jun) - Disturbed areas, coastal cliffs, canyon sides - Shrub 4-60". Flowers yellow, orange or red; 1-2.3" long; bract tube glabrous.



SYDNEY GOLDEN WATTLE (*Acacia longifolia*) Naturalized Perennial - Pea Family - (Jan-Apr) - Uncommon. Disturbed places, especially sandy coastal areas - Shrub-small tree, spineless. Leaves simple, 2-6" long with 2-4 main veins. Flowers bright yellow.



BLACKWOOD ACACIA (*Acacia melanoxydon*)
Naturalized Perennial - Pea Family - (Feb-Mar) -
Uncommon. Disturbed areas - Tree < 100' tall.
Leaves simple, 0.2-1.2" wide, 3-5 main veins.
Flowers pale yellow, 2-8 per head. INVASIVE
weed.



GOLDEN-YARROW (*Eriophyllum confertiflorum*
var. *confertiflorum*) Native Perennial - Sunflower
Family - (Apr-Aug) - Many dry habitats -
Shrubby, 8-28" tall. Leaves 0.4-2" long, deeply
3-5 lobed. Flowers yellow; rays 4-6, 0.08-0.2"
long; head bracts 4-7.



ARROYO WILLOW (*Salix lasiolepis*) Native
Perennial - Willow Family - (Jan-Jun) - Common.
Shores, marshes, meadows, etc - Shrub-tree,
bark smooth. Leaf-like stipules. Leaf egg-shaped,
waxy below. Fruit smooth, bract persistent, dark,
stamens 2.

