



Wild Plants of Hayward Regional Shoreline

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 Hayward Regional Shoreline

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 Hayward Regional Shoreline - Sorted by Form, Color and Family

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CALIFORNIA MAIDENHAIR (*Adiantum jordanii*)
Native Perennial - Brake Fern Family - - - Shaded hillsides, moist woodland - Leaves 8-28" long with many rounded symmetrical segments, each with < 4 irregular lobes. Cultivated. Sudden Oak Death carrier.



SMOOTH SCOURING RUSH (*Equisetum laevigatum*) Native Perennial - Horsetail Family - - - Moist, sandy or gravelly areas - Stems 1 kind only, 12-71" tall, unbranched. Sheath w/dark band only at the top.



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.



GIANT REED (*Arundo donax*) Naturalized Perennial - Grass Family - (Mar-Sep) - Moist places, seeps, ditchbanks - Stem 6-33' tall, matures woody. Leaves evenly spaced on stem. Flower cluster 8-28" tall, up to 5" wide. Spikelet ~0.5" long. NOXIOUS weed.



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.



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.



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, sheathes hairy. NOXIOUS weed.



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.



BROME FESCUE (*Festuca bromoides*) Naturalized Annual - Grass Family - (May-Jun) - Uncommon. Dry, disturbed places, coastal-sage scrub, chaparral - Stem < 20 ". Inflor 0.6-6" tall, dense, lower branches erect. Spikelet 0.2-0.4" long, awn 0.1-0.3" 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.**



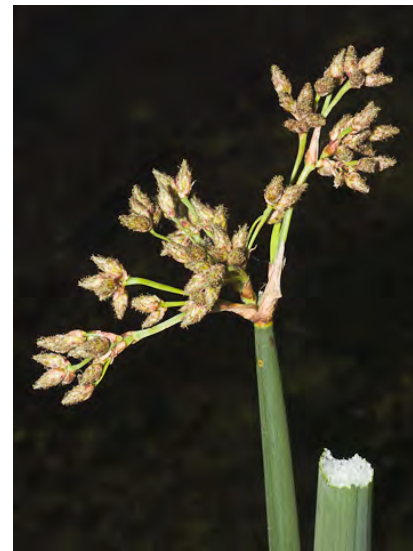
WALL BARLEY (*Hordeum murinum* subsp. *murinum*) Naturalized Annual - Grass Family - (Feb-May) - Moist, gen disturbed sites - Stem 1-2'. Leaf auricles notable. Central spikelet stalk 0-0.02". Central floret gen = lateral florets. **INVASIVE weed.**



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 gen < 0.1". **INVASIVE.**



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.



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.



NAKED LADIES (*Amaryllis belladonna*) Naturalized Perennial - Amaryllis Family - (Jul-Sep) - Disturbed sites, often around abandoned home sites - Stems leafless, 1-2' tall. Flowers large and pink (sometimes white or yellow at the base). Escaped ornamentals.



GRAND HOUND'S TONGUE (*Cynoglossum grande*) Native Perennial - Borage Family - (Feb-May) - Chaparral, woodland - Stem 1-3'. Leaf stalk 3-6". Leaf blade 3-6" cm long, broadly oval. Flowers bright blue w/inner white teeth.



PURPLE OWL'S-CLOVER (*Castilleja exserta* subsp. *exserta*) Native Annual - Broom-rape Family - (Mar-May) - Open fields, grassland - Plant sticky, short-hairy. Flower cluster tipped white, pale yellow or rose. Flower upper lip hooked, fuzzy.



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.



SMALL CLARKIA (*Clarkia affinis*) Native Annual - Evening Primrose Family - (May-Jun) - Openings in woodland, chaparral - Stem < 32". Buds erect, ovary 8-grooved, sepals united on side. Petals 0.2-0.6" long, pale pink to dark wine-red, often purple-flecked.



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.



HAIRY DOVE'S FOOT GERANIUM (*Geranium molle*) Naturalized Annual - Geranium Family - (Feb-Aug) - Open to shaded sites, disturbed ground - Stem 4-17" tall. Petals red-purple, 0.1-0.4" long, notched. Sepals awnless. Fruit smooth, wrinkled.



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.



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.**



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.



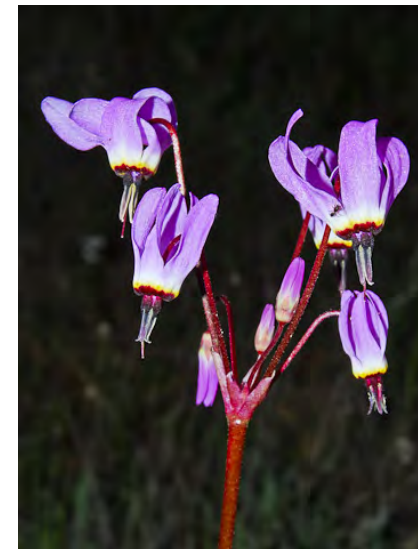
CALIFORNIA GILIA (*Gilia achilleifolia* subsp. *achilleifolia*) Native Annual - Phlox Family - (Mar-Jun) - Open or shaded, gen grassy places, sandy or rocky soil - Leaves linear-lobed. Flowers lavender, 0.4-0.8" long, throat > tube, 8-25 in hemispheric head.



SLENDER ANNUAL PHLOX (*Microsteris gracilis*) Native Annual - Phlox Family - (Mar-Aug) - Dry to moist areas - Plant < 8" tall, glandular-hairy. Leaves 0.4-1.2" long. Flowers 0.3-0.5" long, tubes yellow, lobes bright pink to white.



PADRE SHOOTING STAR (*Dodecatheon clevelandii* subsp. *patulum*) Native Perennial - Primrose Family - (Mar-May) - Moist places, often on serpentine or in ± 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.



ARTICHOKE THISTLE (*Cynara cardunculus* subsp. *flavescens*) Naturalized Perennial - Sunflower Family - (Apr-Jul) - Disturbed places - Plant 1.6-8' tall. Artichoke head 1.6-6" diam, spine-tipped. Flowers blue or purple, 1.2-2" long. NOXIOUS weed.



WEEDY CUDWEED (*Pseudognaphalium luteoalbum*) Naturalized Annual - Sunflower Family - (Apr-Aug) - Disturbed sites, fields, streambeds - Heads 0.12-0.16" long, yellowish, female flowered. Heads < 0.08" long, pappus bristles connected.



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.



FULLER'S TEASEL (*Dipsacus sativus*) Naturalized Biennial - Teasel Family - (May-Jul) - Disturbed areas, fields, vacant lots, pastures - Plant gen < 6' tall. Leaf pairs fused around stem. Flower cluster lavender, 5-10 cm long, bracts spreading. INVASIVE weed.



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.



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.



SEA BEET (*Beta vulgaris* subsp. *maritima*) Naturalized Annual - Goosefoot Family - (Feb-Sep) - Moist sandy places, disturbed areas - Plant succulent. Stem < 32" tall. Leaf blades < 4" long. Fruits fall in clusters.



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.



FLESHY RUSSIAN THISTLE (*Salsola soda*) Naturalized Annual - Goosefoot Family - (Jul-Oct) - Uppermost intertidal zone, saline or muddy flats, open areas in salt marshes - Plant 6-18" tall, succulent, branched from base, not red-stripped. INVASIVE weed.



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.**



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.



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.



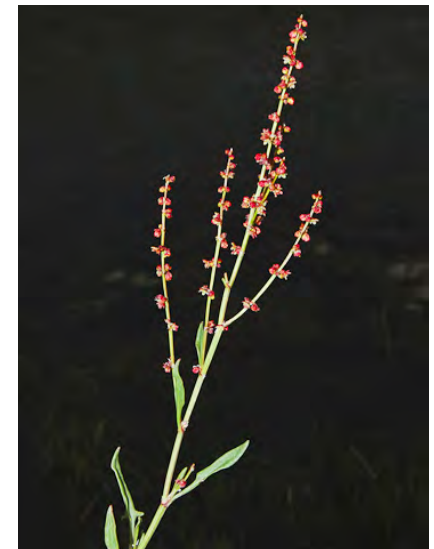
COCKLEBUR (*Xanthium strumarium*) Native Annual - Sunflower Family - (Jul-Oct) - Disturbed, seasonally wet, often alkaline sites, in grassland, marshes, watercourses - Plant 4-32" tall. Stem spineless. Bur 0.4-1.2"+ long.



COMMON FIDDLENECK (*Amsinckia intermedia*) Native Annual - Borage 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.



WARRIOR'S PLUME (*Pedicularis densiflora*) Native Perennial - Broom-rape Family - (Mar-May) - Dry chaparral, oak/pine forest - Hairy. Stem 2.4-22". Basal leaves 5-28 cm long, 13-41 segments. Flowers deep-red to red-purple, 0.9-1.4" long, lower lip 1/8th upper.



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 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.



VENUS THISTLE (*Cirsium occidentale* var. *venustum*) Native Biennial - Sunflower 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.



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.



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



WHITE FIESTA FLOWER (*Pholistoma membranaceum*) Native Annual - Borage Family - (Feb-May) - Beaches, bluffs, ravines, wooded slopes, desert washes - Stem 2-36" tall. Flowers gen 2-10, 0.12-0.24" long, < 0.4" wide, white, no bractlets.



FOOL'S ONION (*Triteleia hyacinthina*) Native Perennial - Brodiaea 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.



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.



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.



WHITE BUTTERFLY MARIPOSA LILY
(*Calochortus venustus*) Native Perennial - Lily
Family - (May–Jul) - Sandy (often granitic) soil in
grassland, woodland, yellow-pine forest - Flowers
white w/square yellow nectary; 2 red patches
above. Petals 1.2-2" long.



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.



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



COMMON HOREHOUND (*Marrubium vulgare*)
Naturalized Perennial - Mint Family - (Mar–Nov) -
Disturbed sites, gen overgrazed pastures - Stem
4-24" long. Leaf blades 0.6-2.2" long. Flower
bract w/10 hook-tipped teeth. Flowers white,
~0.2" long. **INVASIVE.**



CLIMBING MORNING-GLORY (*Calystegia
purpurata* subsp. *purpurata*) Native Perennial -
Morning-glory Family - (May–Jun) - Chaparral,
coastal scrub - Stem strongly climbing. Leaf
triangular, lobes strongly angled. Bractlets
smooth, small, distant.



GOLDENTHREAD (*Cuscuta pacifica* var.
pacifica) Native Annual - Morning-glory Family -
(Jul–Oct) - Gen on *Salicornia*, *Jaumea* in coastal
salt marshes, tidal flats - Vine. Stem thread-like.
Flowers white, ~0.2" long.



HORNED SEA ROCKET (*Cakile maritima*)
Naturalized Annual - Mustard Family - (May–Nov)
- Beach dunes - Plants low. Stem <= 32" long.
Early leaves divided into long lobes; petals
0.1-0.3" wide, white to lavender. Fruit horned.
INVASIVE 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.**



JIMSON WEED (*Datura stramonium*) Naturalized Annual - Nightshade Family - (Jun-Aug) - Sandy soils, open, often disturbed areas - Plants < 4' tall. Flowers white or pale blue-purple, 2.5-3.5" long; calyx 1.2-1.6" long. Cultivated. All parts very **TOXIC.**



BLACK NIGHTSHADE (*Solanum nigrum*) Naturalized Annual - Nightshade Family - (Mar-Oct) - Disturbed places - Flower 0.4" wide w/deep lobes, white. Anthers 0.08" long. Seeds 0.08". Bracts 0.08-0.12" long, not curled back in fruit.



WILD LICORICE (*Glycyrrhiza lepidota*) Native Perennial - Pea Family - (May-Jul) - In colonies, moist, gen open, disturbed areas incl streambanks, roadsides, alkaline soils or not - Plant to 47" tall. Leaflets 9-19. Flowers whitish, 0.43-0.55". Fruit w/hooked prickles.



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.



CALIFORNIA TEA (*Rupertia physodes*) Native Perennial - Pea Family - (May-Sep) - Woodland - Stem ~1.6'. Leaflets 3, triangular to lance-shaped, 1.4-2.8" long, sticky. Flower bracts not hairy, lobes =, banner 0.4-0.55" long.



BICOLOR LEPTOSIPHON (*Leptosiphon bicolor*) Native Annual - Phlox Family - (Mar-Jun) - Common. Open, grassy areas, chaparral, woodland - Plant 0.8-8.3" tall, hairy. Flower lobes ~0.1" long, pink or white; tube red; stigma <=0.02" long.



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.



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.



MAYWEED (*Anthemis cotula*) Naturalized Annual - Sunflower Family - (Apr–Aug) - Common. Disturbed areas, fields, coastal dunes, chaparral, oak woodland - Leaves finely divided into thread-like lobes. Flowers > 0.6" wide, many on top of a well-branched stem.



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.



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.



SMALL-FLOWERED FIDDLNECK (*Amsinckia menziesii*) Native Annual - Borage Family - (May–Jul) - Shade-tolerant, open, disturbed areas at forest/woodland edges - Flowers yellow to orange-yellow, generally spotted, 0.2-0.3" long, 0.1" wide. Leaves coarse-hairy.



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.



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.



NEW ZEALAND SPINACH (*Tetragonia tetragonioides*) Naturalized Annual - Fig-marigold Family - (Apr–Sep) - Common. Sand dunes, bluffs, margins of coastal wetlands - Stem crawling, 1'+. Flowers yellow, 1-3/cluster, 0.2" wide.



CLIMBING BEDSTRAW (*Galium porrigens* var. *porrigens*) Native Perennial - Madder Family - (May–Aug) - Among shrubs in chaparral, forest - Stem 4-59" long. Leaves 0.1-0.7" long, oval to egg-shaped, in whorls of 4. Flowers yellow to red, 4-lobed.



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.



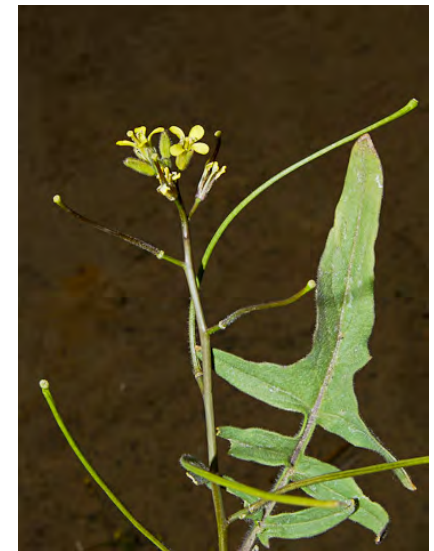
BLACK MUSTARD (*Brassica nigra*) Naturalized Annual - Mustard Family - (Apr–Sep) - Common. Disturbed areas, fields - Plant 1-6" tall. Petals bright yellow, 0.3-0.4" long. Fruit upright, pressed against stem. **INVASIVE** weed.



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**.



HEDGE MUSTARD (*Sisymbrium officinale*) Naturalized Annual - Mustard Family - (Apr–Sep) - Disturbed areas, fields, pastures - Stem 10-22" tall, thin, wiry. Petals 0.1-0.16" long, pale yellow. Fruit 0.4-0.55" long, awl-shaped, appressed.



EASTER ROCKET (*Sisymbrium orientale*) Naturalized Annual - Mustard Family - (May–Jun) - Disturbed areas, fields, roadsides - Stem 8-32" tall. Petals 0.28-0.35" long, light yellow. Fruit 2.4-4" long, spreading, stalk same width as the fruit.



BERMUDA BUTTERCUP (*Oxalis pes-caprae*)
Naturalized Perennial - Oxalis Family -
(Jan-May) - Disturbed areas, roadsides,
grassland, dunes - Flowering stem < 12" tall.
Leaflets in 3s, < 1.4" long. Petals yellow, < 1"
long. Ornamental. **INVASIVE** weed.



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.



SHARP POINT FLUELLEIN (*Kickxia elatine*)
Naturalized Annual - Plantain Family - (Apr-Oct) -
Disturbed, open places - Plant low, sticky-hairy.
Some or all leaves arrow-shaped. Flowers yellow
or blue, with violet upper lip; 0.3-0.6" long.



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.



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**.



STINKWORT (*Ditrichia graveolens*) Naturalized Annual - Sunflower Family - (Sep-Nov) - Disturbed areas - Plant 8-24" tall, camphor-scented, glandular. Flowers yellow. Flower-head bracts Aster-like. Fall bloomer. **INVASIVE weed.**



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.



ROSILLA (*Helenium puberulum*) Native Biennial - Sunflower Family - (Jun-Aug) - Streambanks, seepage areas, lake margins - Plant 20-63". Flower head spherical, disk flowers ~0.1" long, yellow on sides, brown-purple on top; rays 0.15-0.4" long, point down.



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.**



TELEGRAPH WEED (*Heterotheca grandiflora*) Native Annual - Sunflower Family - (Jun-Oct(± all year)) - Disturbed areas, dry streambeds, sand dunes - Plant 0.3-8' tall, bristly, sticky, branched above. Leaf 0.8-2.8" long, lower clasp stem. Rays 25-40, 0.2-0.3" long.



FLESHY JAUMEA (*Jaumea carnosa*) Native Perennial - Sunflower Family - (Apr-Dec) - Coastal salt marshes, bases of sea cliffs - Stem trailing. Leaf gen 0.6-2" long, fleshy. Flower head yellow, 0.5-0.8" long; rays 0.4-0.2" long, disks ~ 0.25" long. Aromatic.



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.



JOHNNY-JUMP-UP (*Viola pedunculata*)
Native Perennial - Violet Family - (Feb-Apr) - Open, grassy slopes, hillsides, chaparral, oak woodland, gen full sun - Plant 2-15" tall. No basal leaves. Petals gold-yellow, lower 3 brown-veined, upper 2 red-brown on back.



BLACK SAGE (*Salvia mellifera*)
Native Perennial - Mint Family - (Mar-Jun) - Coastal-sage scrub, lower chaparral - Shrub 3.3-6' tall. Leaf 1-2.8" long, toothed, hairy underneath. Flowers blue, white or lavender, tube 0.2-0.4" long, in clusters 0.6-1.6" wide.



BLUE WITCH (*Solanum umbelliferum*)
Native Perennial - Nightshade Family - (All year) - Shrubland, mixed-evergreen forest, woodland - Plant gen < 39", upper stem hairs branched, dense. Flowers 0.6-1" wide, purple, with green spots at the base.



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.



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.



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.



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.



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 Aborigines. 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.



PEPPER TREE (*Schinus molle*) Naturalized Perennial - Sumac Family - (Jun-Aug) - Washes, slopes, abandoned fields - Tree 16-60' tall. Flowers white to yellow. Leaves compound, leaflets stemless. Fruits pink to red, 0.2-0.3" diam.



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.



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.



HOLLYLEAF REDBERRY (*Rhamnus ilicifolia*) Native Perennial - Buckthorn Family - (Mar-Jun) - Chaparral, montane forest - Shrub < 13' tall, evergreen w/stiff branches. Leaf blades 0.8-1.6" long, toothed. Fruits 0.2-0.3" wide, red.



TREE TOBACCO (*Nicotiana glauca*) Naturalized Perennial - Nightshade Family - (Apr-Aug) - Open, disturbed flats or slopes - Shrub or small tree, waxy-blue. Leaves 2-8" long. Flowers yellow, 1.2-1.4" long. INVASIVE. TOXIC to livestock.



BLACKWOOD ACACIA (*Acacia melanoxylon*) 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.



BIRCH-LEAF MOUNTAIN-MAHOGANY (*Cercocarpus betuloides* var. *betuloides*) Native Perennial - Rose Family - (Mar-May) - Dry, rocky slopes, chaparral - Shrub 3-10'. Leaf 0.4-1" long, end toothed. Flower 0.16-0.3" wide. Hairy fruit styles 2-3.5" long.



MARSH GUMPLANT (*Grindelia stricta* var. *angustifolia*) Native Perennial - Sunflower Family - (May-Dec) - Tidal wetlands - Plant 3.3-6.6' tall, woody base, evergreen. Leaves 0.4-6" long, fleshy, not resinous. Flower rays yellow, 16-56, 0.5-0.7" long.



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.

