



Wild Plants of Point Pinole Regional Shoreline

Common Name Version

A Photographic Guide

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

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

A Photographic Guide to the Wild Plants of Point Pinole 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

Grass-like - Green/Brown

Wild Plants of Point Pinole Regional Shoreline - Sorted by Form, Color and Family

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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.



SILVER HAIR GRASS (*Aira caryophylla*)
Naturalized Annual - Grass Family - (Apr-Jun) - Sandy soils, open or disturbed sites - Flower cluster > 0.6" wide, diffuse with long slender branches. Spikelets about 0.1" long with 2 extended awns.



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.



RATTLESNAKE GRASS (*Briza maxima*) Naturalized Annual - Grass Family - (Apr-Jul) - Shaded sites, roadsides, pastures, weedy on coastal dunes - Stem 8-35" tall. Spikelets 0.4-0.75" long, resemble rattlesnake rattles. INVASIVE weed.



LITTLE QUAKING GRASS (*Briza minor*) Naturalized Annual - Grass Family - (Apr-Jul) - Shaded or moist, open sites - Stem 3-20" tall. Spikelets 0.1-0.2" long, resemble tiny rattlesnake rattles.



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.



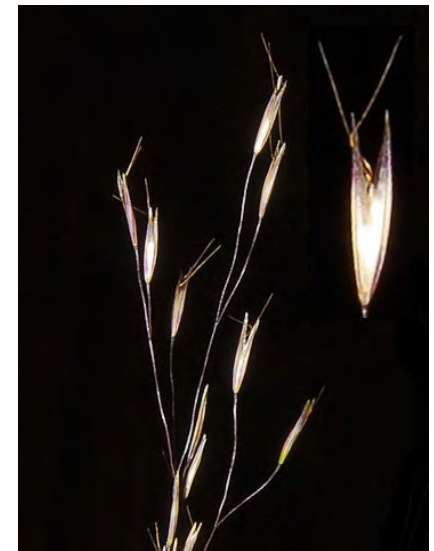
RIPGUT GRASS (*Bromus diandrus*) Naturalized Annual - Grass Family - (Apr-Jul) - Open, gen disturbed areas - Plant 6-40" tall. Spikelet 1-2.8" long. Lemma body 0.8-1.2" long, awn > 1.2" long. Barbed seeds can stick in flesh of animals. INVASIVE weed.



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.



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.



ANNUAL HAIR GRASS (*Deschampsia danthonioides*) Native Annual - Grass Family - (Mar-Aug) - Moist to drying, open sites, meadows, streambanks, vernal pools, occ alkali soil - Stem 4.5-24" long. Lemmas 2, ~0.1", awns from below middle 0.1-0.4" & bent.



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.



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



HAIRY FESCUE (*Festuca microstachys*) Native Annual - Grass Family - (Apr-Jun) - Disturbed, open, gen sandy soils - Stem 6-29". Spikelet 0.2-0.4" long, awn 0.1-0.5" long. Glumes & lemma smooth or hairy.



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.**



RED FESCUE (*Festuca rubra*) Native Perennial - Grass Family - (May-Jul) - Sand dunes, grassland, subalpine forest - Plant 12-32", hairy, clumped, w/closed sheath. Generally with rhizomes. Spikelets 0.4-0.5", florets 3-10, awns < 0.16" long.



COMMON VELVET GRASS (*Holcus lanatus*) Naturalized Perennial - Grass Family - (Jun-Aug) - Moist sites, roadbanks, cult fields, meadows - Plant 8-39" tall, very hairy. Glumes 0.12-0.24", purple; florets 0.12-0.16" w/ hooked awn. INVASIVE weed.



NORTHERN BARLEY (*Hordeum brachyantherum* subsp. *brachyantherum*) Native Perennial - Grass Family - (May-Aug) - Meadows, pastures, streambanks - Stem 1-3' tall, gen robust. Leaf sheaths gen smooth, blade < 7.5" long. Lemma awn < 0.25".



CALIFORNIA BARLEY (*Hordeum brachyantherum* subsp. *californicum*) Native Perennial - Grass Family - (Mar-Jul) - Meadows, pastures, streambanks - Stem 8-37" tall, gen slender. Leaf sheaths gen densely hairy, blade <= 4.5" long. Lemma awn < 0.3" long.



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.



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 or unequal. Glume wing untoothed. INVASIVE weed.



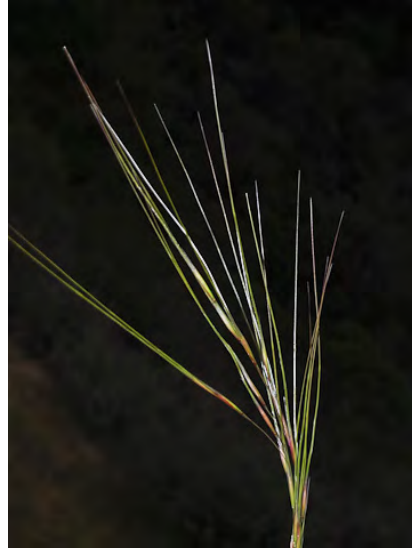
ANNUAL BLUE GRASS (*Poa annua*) Naturalized Annual - Grass Family - (Feb-Sep) - Abundant. Disturbed moist ground - Plant 1-8" tall. Leaf blade 0.04-0.12" wide, soft. Flower cluster 0.4-4" long, triangular. Lemmas 0.1-0.16" long.



RABBITFOOT GRASS (*Polygomon* sp.) 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.



NODDING NEEDLE GRASS (*Stipa cernua*) Native Perennial - Grass Family - (Feb-Jul) - Grassland, chaparral, juniper woodland - Stem 12-39". Glumes: lower 0.47-0.87" long, upper ~0.14" shorter. Awns 2-4" long, wavy last segment.



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.



TOAD RUSH (*Juncus bufonius* var. *bufonius*) Native Annual - Rush Family - (May-Sep) - Damp sunny ground, gen disturbed - Stem gen 1-4" tall, gen brached from base, ~0.04" wide. Flower cluster open. Flowers 0.16-0.3" long.



WESTERN RUSH (*Juncus occidentalis*) Native Perennial - Rush Family - (May-Sep) - Moist gen sunny areas - Plant 1-2' tall, tufted, stiff. Flower cluster gen tightly clustered. Leaves basal, < 1/2 stem length, 'petals' > 0.16".



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.



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 NUTSEDEGE (*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 SPIKERUSH (*Eleocharis macrostachya*) Native Perennial - Sedge Family - (Spring-summer) - Common. Fresh to brackish wetland - Stem 8-39" tall, 0.06-0.1" wide. Spikelet 0.2-1.6" long, 0.08-0.2" wide, style 2-branched.



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.



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.



MEDITERRANEAN LINSEED (*Bellardia trixago*) Naturalized Annual - Broom-rape Family - (Apr-Jun) - Disturbed grassland. - Plant sticky-hairy. Stem 6-32" tall. Leaves lance-shaped, toothed. Flowers 0.8-1" long, 2-lipped; upper lip pink, lower lip white. **INVASIVE.**



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.



GREATER PERIWINKLE (*Vinca major*) Naturalized Perennial - Dogbane Family - (Mar-Jun(Jan)) - Coastal bluffs, sheltered places, esp along stream beds - Plant sprawling. Leaf blade ~ 2.8" long, oval. Flower purple-blue, 1.2-2" wide at top. **INVASIVE weed.**



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.



COMMON WILLOWHERB (*Epilobium ciliatum* subsp. *ciliatum*) Native Perennial - Evening Primrose Family - (Jun-Oct) - Common. Disturbed places, moist meadows, streambanks, roadsides - Plant 20-48" tall, smooth or short-hairy. Petals 2-6 mm, white to pink.



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.



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.



HERB ROBERT (*Geranium robertianum*) Naturalized Annual-Biennial - Geranium Family - (Apr-Sep) - Open to shaded sites - Stem 4-20" long. Leaflets in 3s, deeply lobed. Petals pink to red-purple, 0.4-0.55" long.



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 - Loosestrife 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.



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.



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.



SKY LUPINE (*Lupinus nanus*) Native Annual - Pea Family - (Mar-Jun) - Abundant. Open or disturbed areas - Plant 4-24" tall, hairy. Flowers blue to pink to white, 0.2-0.6" long; banner as wide as long. Flower stalk gen > 0.12" long.



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.



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.



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 flowers < 0.08" long, pappus bristles connected.



COMMON CALIFORNIA WILD ASTER (*Symphyotrichum chilense*) Native Perennial - Sunflower Family - (Jun-Oct) - Grassland, salt marshes, disturbed places - Plant 16-39", partly hairy. Leaf 1.6-6", 0.2-1.2" wide. Rays violet, 0.3-0.5" long.



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.



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.



TUMBLEWEED (*Amaranthus albus*) Naturalized Annual - Amaranth Family - (Jun-Oct) - Disturbed areas, roadsides, riverbanks, sandy places, agricultural fields - Plant upright, bushy. Stem pale. Flower clusters <= 0.6" long, at base of leaves. Flowers with 3 "petals".



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.



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.



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.



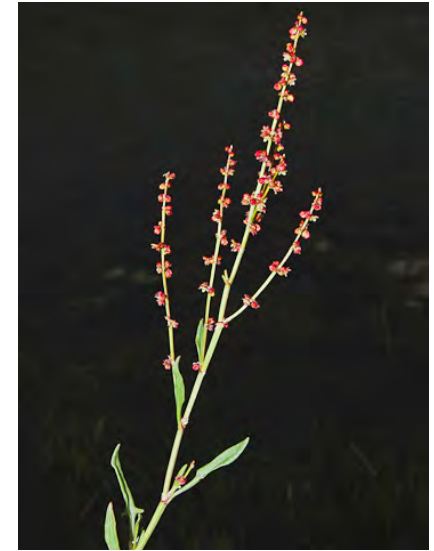
WESTERN RAGWEED (*Ambrosia psilostachya*) Native Perennial - Sunflower Family - (Jun–Nov) - Common. Roadsides, dry fields - Plant 1-6.5' tall, upright with long roots. Leaves 1-5" long with narrow lobes. Fruits spineless. Allergenic pollen.



MUGWORT (*Artemisia douglasiana*) Native Perennial - Sunflower Family - (May–Nov) - Common. Open to shady areas, often in drainages - Plant 20-60" tall. Leaves gen 0.4-4" long, densely hairy below, some 3-5 lobed. Flower bracts hairy.



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.



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.



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.



SOFT SALTY BIRD'S-BEAK (*Chloropyron molle* subsp. *molle*) Native Annual - Broom-rape Family - (Jul–Nov) - Coastal salt marshes - Plant 4-16" tall, gen soft-hairy. Flowers white to yellowish, 0.6-0.8" long. Fed: ENDANGERED Cal: RARE.



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.



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, \pm 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.



COMMON MINER'S LETTUCE (*Claytonia perfoliata* subsp. *perfoliata*) Native Annual - Miner's Lettuce Family - (Jan–May) - Vernal moist, often shady or disturbed sites - Basal leaf length $< 3 \times$ width. Stem leaf gen not angled. Seeds shiny w/large appendage.



SHORTSTEM MORNING-GLORY (*Calystegia subacaulis* subsp. *subacaulis*) 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.



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.



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.



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.



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.



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.



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.



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.



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.



PRICKLESEED BUTTERCUP (*Ranunculus muricatus*) Naturalized Annual - Buttercup Family - (Apr–Jun) - Stream-banks, drainages, low meadows - Plant 6-20". Leaves gen 3-lobed. Petals yellow, 5, 0.16-0.3" long. Fruits 0.2" long with curved bristles.



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.**



GOLDEN EGGS SUNCUP (*Taraxia ovata*) Native Perennial - Evening Primrose Family - (Mar–Jun) - Grassy fields, gen clay soil - Stemless. Leaf blade oval, 1.2-6" long w/long stalks. Flower stalks leafless. Petals yellow, 0.3-0.9" long. Ovary hidden.



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.**



TURNIP (*Brassica rapa*) Naturalized Annual - Mustard Family - (Jan-May) - Disturbed areas - Stem 8-40" tall. Leaves clasping, upper smooth-edged & waxy. Petals yellow, 0.2-0.4" long, stalk 0.3-1"; fruit beak > 0.4". **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.



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.



LITTLE HOP CLOVER (*Trifolium dubium*) Naturalized Annual - Pea Family - (Spring) - Agricultural, disturbed areas, lawns - Heads 0.16-0.3" wide. Flowers bright yellow, age brown, quickly reflex, smooth.



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.



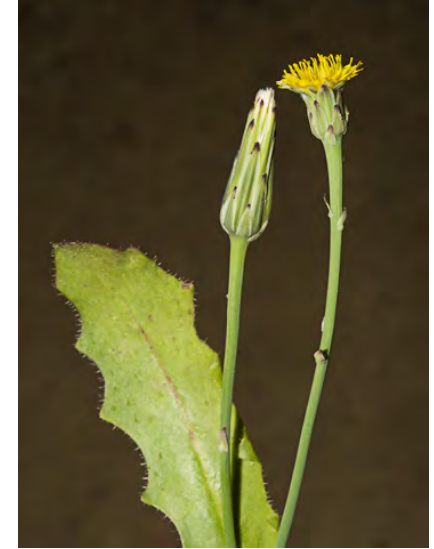
BRASS-BUTTONS (*Cotula coronopifolia*)
Naturalized Perennial - Sunflower Family -
(Mar-Dec) - Common. Saline and freshwater
marshes, mud flats - Plant 2-16"+ tall, smooth, ±
fleshy. Leaves linear to lance-shaped w/linear
teeth or lobes. **INVASIVE.**



PACIFIC GUMPLANT (*Grindelia stricta* var.
platyphylla) Native Perennial - Sunflower Family -
(All year) - Coastal bluffs, dunes - Plant 4-40" tall,
woody base, evergreen. Leaf 0.4-6" long, tips
squared to rounded. Buds gummy. Ray flowers
yellow, 20-60, 0.5-0.8" long.



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.**



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.



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.



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.



NARROW-LEAVED MULE'S EARS (*Wyethia angustifolia*) Native Perennial - Sunflower Family - (Apr-Aug) - Grassland - Plant 4-35" tall, rough-hairy. Leaves narrow, veins all similar, base blades 4-20" long. Ray flowers 0.6-1.8" long.



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.



PACIFIC MADRONE (*Arbutus menziesii*) Native Perennial - Heath Family - (Mar-May) - Conifer, oak forests - Tree < 130' tall, evergreen, peeling red bark. Leaf blades < 5" long. Flowers yellow-white or pink, < 3.1" long. Berries red, < 0.5" diam, round.



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.



HIMALAYAN BLACKBERRY (*Rubus armeniacus*) Naturalized Perennial - Rose Family - (Mar-Jun) - Common. Disturbed areas, roadsides - Shrub w/thorny 5-angled stem. Leaflets 3-5, white-hairy beneath. Blackberry-type fruit. INVASIVE.



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.



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.**



FRENCH BROOM (*Genista monspessulana*)
Naturalized Perennial - Pea Family - (Mar-Jun) - Common. Disturbed places. - Shrub < 10' tall, evergreen. Stems 8-10 ridged, leafy. Flowers yellow, 4-10 at branch tips, banner 0.4-0.6" long. **NOXIOUS.**



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.

