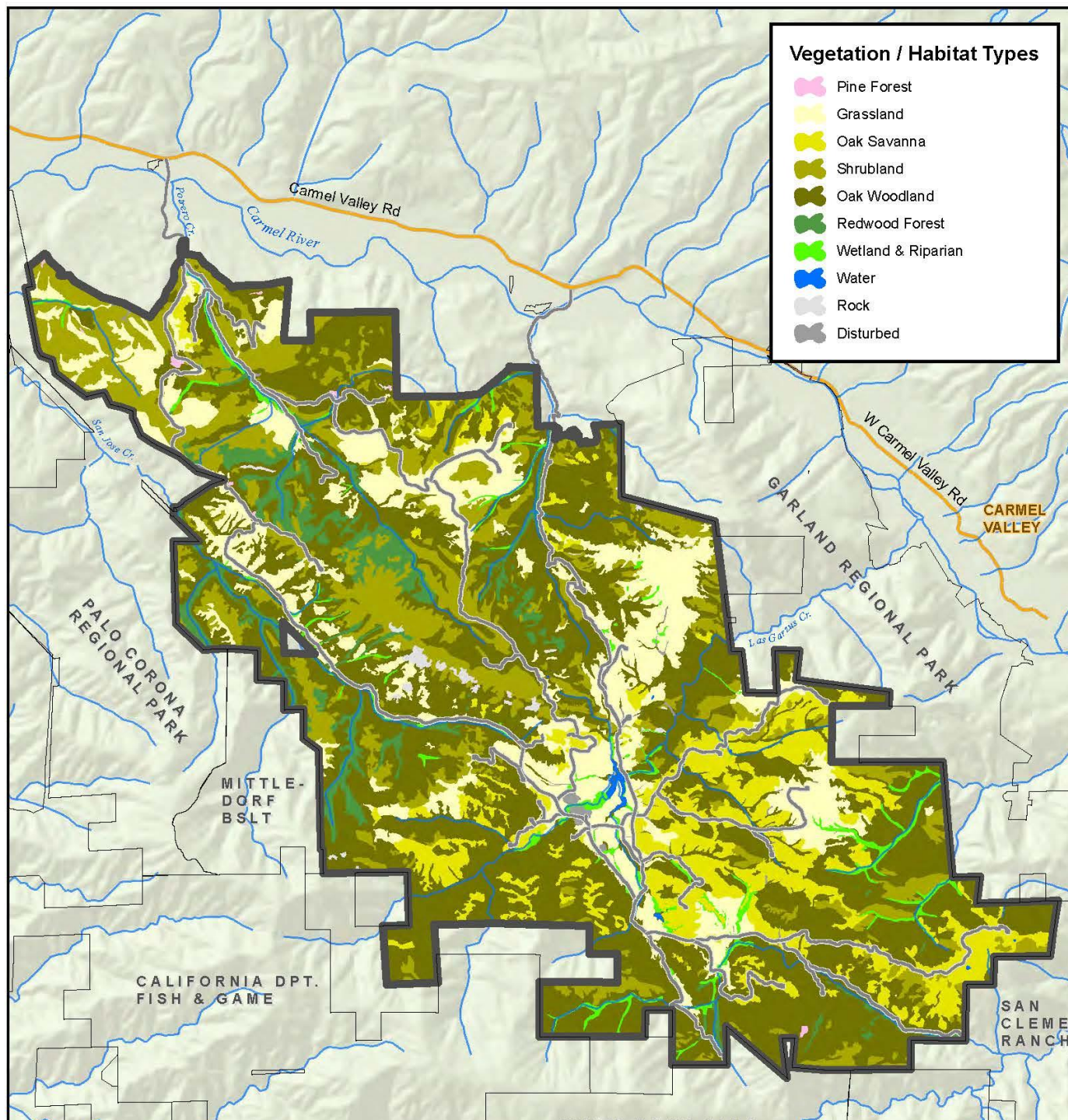


OUR CENTRAL COAST
SPRING WILDFLOWERS



- What's a wildflower? It is a “forb”... an annual or perennial, herbaceous plant (not woody).
- Terms: herbaceous, woody, geophyte.
- What is a “native” plant?
- Natural community, ecosystem, habitat, indicator.
- Forest, Woodland, Savanna, Grassland, Shrubland = structural descriptions of plant assemblages.



























































Mary Conway












SHAPE & ARRANGEMENT

| | | | |
|---|---|---|--|
|  Acicular needle shaped |  Falcate hooked or sickle shaped |  Orbicular circular |  Rhomboid diamond-shaped |
|  Acuminate tapering to a long point |  Flabellate fan shaped |  Ovate egg-shaped, wide at base |  Rosette leaflets in tight circular rings |
|  Alternate leaflets arranged alternately |  Hastate triangular with basal lobes |  Palmate resembles a hand |  Spatulate spoon-shaped |
|  Aristate with a spine-like tip |  Lanceolate pointed at both ends |  Pedate palmate, divided lateral lobes |  Spear-shaped pointed, barbed base |
|  Bipinnate leaflets also pinnate |  Linear parallel margins, elongate |  Peltate stem attached centrally |  Subulate tapering point,awl-shaped |
|  Cordate heart-shaped, stem in cleft |  Lobed deeply indented margins |  Perfoliate stem seeming to pierce leaf |  Trifoliate/Ternate leaflets in threes |
|  Cuneate wedge shaped, acute base |  Obovate egg-shaped, narrow at base |  Odd Pinnate leaflets in rows, one at tip |  Tripinnate leaflets also bipinnate |
|  Deltoid triangular |  Obovate egg-shaped, narrow at base |  Even Pinnate leaflets in rows, two at tip |  Truncate squared-off apex |
|  Digitate with finger-like lobes |  Obtuse bluntly tipped |  Pinnatisect deep, opposite lobing |  Unifoliate having a single leaf |
|  Elliptic oval-shaped, small or no point |  Opposite leaflets in adjacent pairs |  Reniform kidney-shaped |  Whorled rings of three or more leaflets |

MARGIN

| | | |
|---|---|--|
|  Ciliate with fine hairs |  Crenate with rounded teeth |  Dentate with symmetrical teeth |
|  Denticulate with fine dentition |  Doubly Serrate serrate with sub-teeth |  Entire even, smooth throughout |
|  Lobate indented, but not to midline |  Serrate teeth forward-pointing |  Serrulate with fine serration |
|  Sinuate with wave-like indentations |  Spiny with sharp stiff points |  Undulate widely wavy |

VENATION

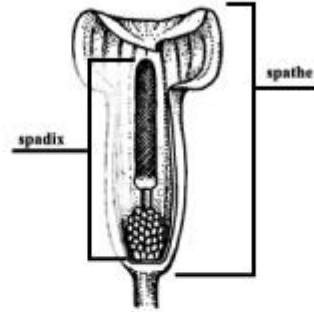
| | | |
|--|---|--|
|  Arcuate secondary veins bending toward apex |  Cross-Venulate small veins connecting secondary veins |  Dichotomous veins branching symmetrically in pairs |
|  Longitudinal veins aligned mostly along long axis of leaf |  Palmate several primary veins diverging from a point |  Parallel veins arranged axially, not intersecting |
|  Pinnate secondary veins paired oppositely |  Reticulate smaller veins forming a network |  Rotate in palmate leaves, veins radiating |



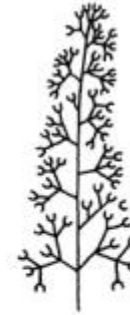
CATKIN / AMENT



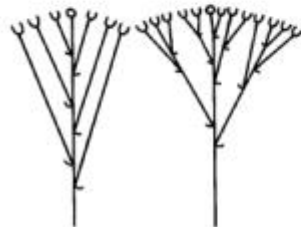
GLOMERULE



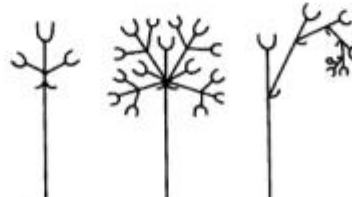
SPADIX with SPATHE



THYSE



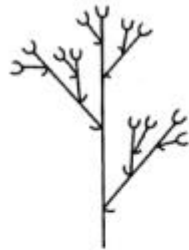
SIMPLE CORYMBS



SIMPLE COMPOUND HELICOID CYMES



HEAD / CAPITULUM



PANICLE



RACEME



SCAPE



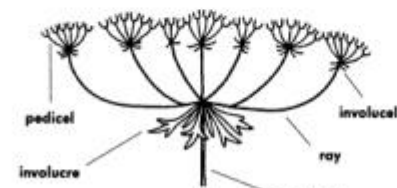
SPIKE



SECUND SPIKES



SIMPLE



COMPOUND

UMBELS



VERTICIL



COMPOSITE



A panoramic view of a mountain range. The foreground is dominated by a dense, lush green forest covering the slopes of a mountain. The forest appears to be a mix of deciduous and coniferous trees. In the background, several layers of mountain ranges are visible, each appearing progressively more blue and hazy due to atmospheric perspective. The sky is a pale, clear blue. The overall scene is a vast, scenic landscape.

Junipero Serra Peak, 5862'



Sugar pine, *Pinus lambertiana*



Arroyo Seco bushmallow,
M.p.ssp lucianus



Jolon Grade bushmallow,
Malacothamnus palmeri var.?

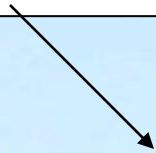


Incense cedar, *Calocedris decurrens*

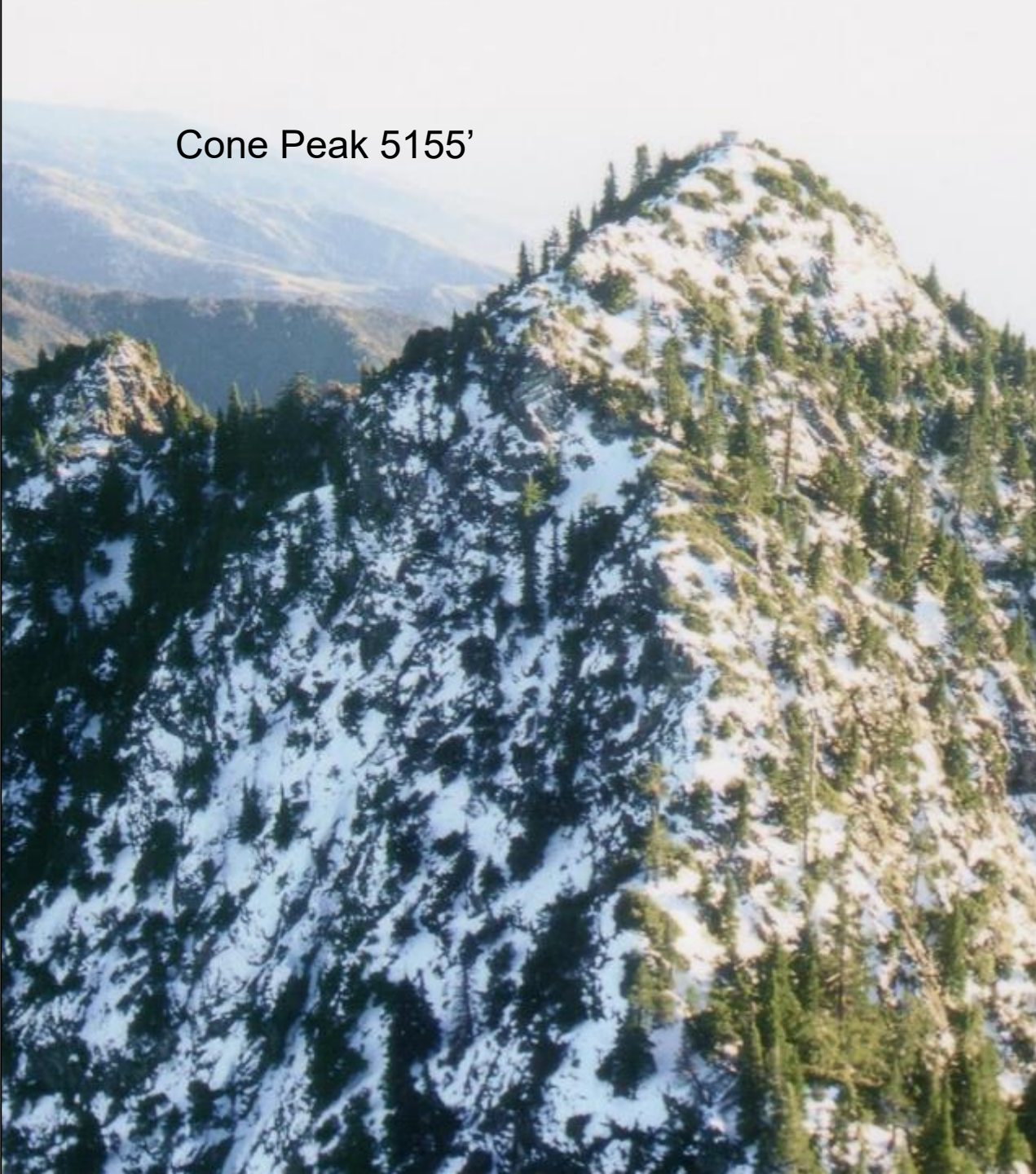
Lewisia rediviva var. *minor*, bitterroot



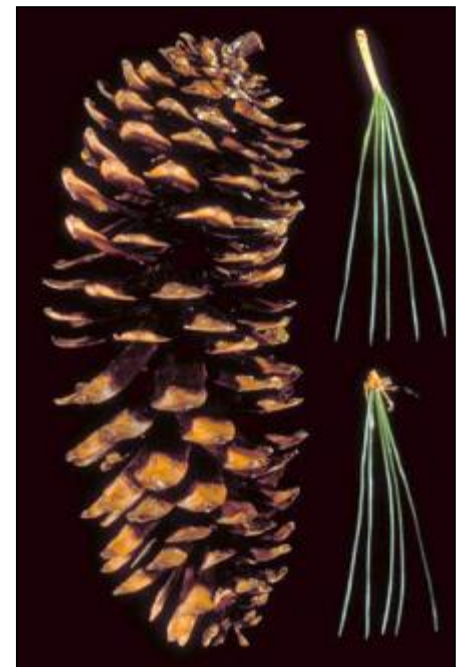
Cone Peak, 5155'



Cone Peak 5155'



Santa Lucia fir, *Abies bracteata*



Sugar pine, *Pinus lambertiana*



Cycladenia humilis

Monvero Dunes - BLM



DUNE HABITATS



FAMILIAR



ODD



Lupinus tidestromii, Tidestrom's lupine



Cakile maritima – sea rocket

Verbenas



Abronia umbellata



Abronia latifolia





Salton Sea

Camissoniopsis cheiranthifolia,
beach primrose



Calystegia soldanella
beach morning glory



Eriastrum virgatum – virgate eriastrum



Erigeron glaucus,
seaside daisy



Castilleja latifolia, seaside painted-cup





Dudleya farinosa



Dudleya caespitosa

Erysimum spp. - wallflowers




E. ammophilum



E. menziesii ssp. *menziesii* (blooms March/April, Asilomar)

E. Menziesii ssp. *yadonii* (blooms May/Sept, Marina)

A close-up photograph of purple flowers. The main flower in the foreground is fully open, showing five petals with a light purple hue and a darker purple center. The center contains several stamens with light blue anthers. Above it is a partially open flower, and to the left is a closed flower bud. The background is a soft, out-of-focus green.

Gilia tenuiflora ssp. *arenaria* –
slender-flowered gilia, sand gilia



Eschscholzia californica var. *maritima*

(a “regular” poppy)



NORTHERN COASTAL SCRUB



Ericameria ericoides, mock heather



*Eriophyllum
staechadifolium*
lizardtail

Salvia mellifera, black sage





Diplacus aurantiacus,
sticky monkey-flower



Diplacus aurantiacus – sticky monkeyflower



Erythranthe guttata – seep-spring m.f.



Erythranthe cardinalis – scarlet m.f.



Diplacus bifidus - Santa Lucia m.f.,



Diplacus fremontii – Fremont's m.f.

CHAPARRAL



Adenostoma fasciculatum, chamise





Arctostaphylos
pajaroensis –
Pajaro manzanita



A. pumila –
Sandmat Manzanita



A. montereyensis –
Toro manzanita



A. tomentosa ssp. *t.*
hairy manzanita



Arbutus menziesii, madrone

MARITIME CHAPARRAL



Vaccinium ovatum, huckleberry



Ceanothus species



C. thyrsiflorus



C. thyrsiflorus



Ceanothus cuneatus var. *rigidus* –
Monterey ceanothus



Ceanothus incanus – coast whitethorn

Ceanothus dentatus – dwarf ceanothus

Pickeringia montana –
chaparral pea





© Aaron Schusteff



©LF

Garrya elliptica,
silktassel bush



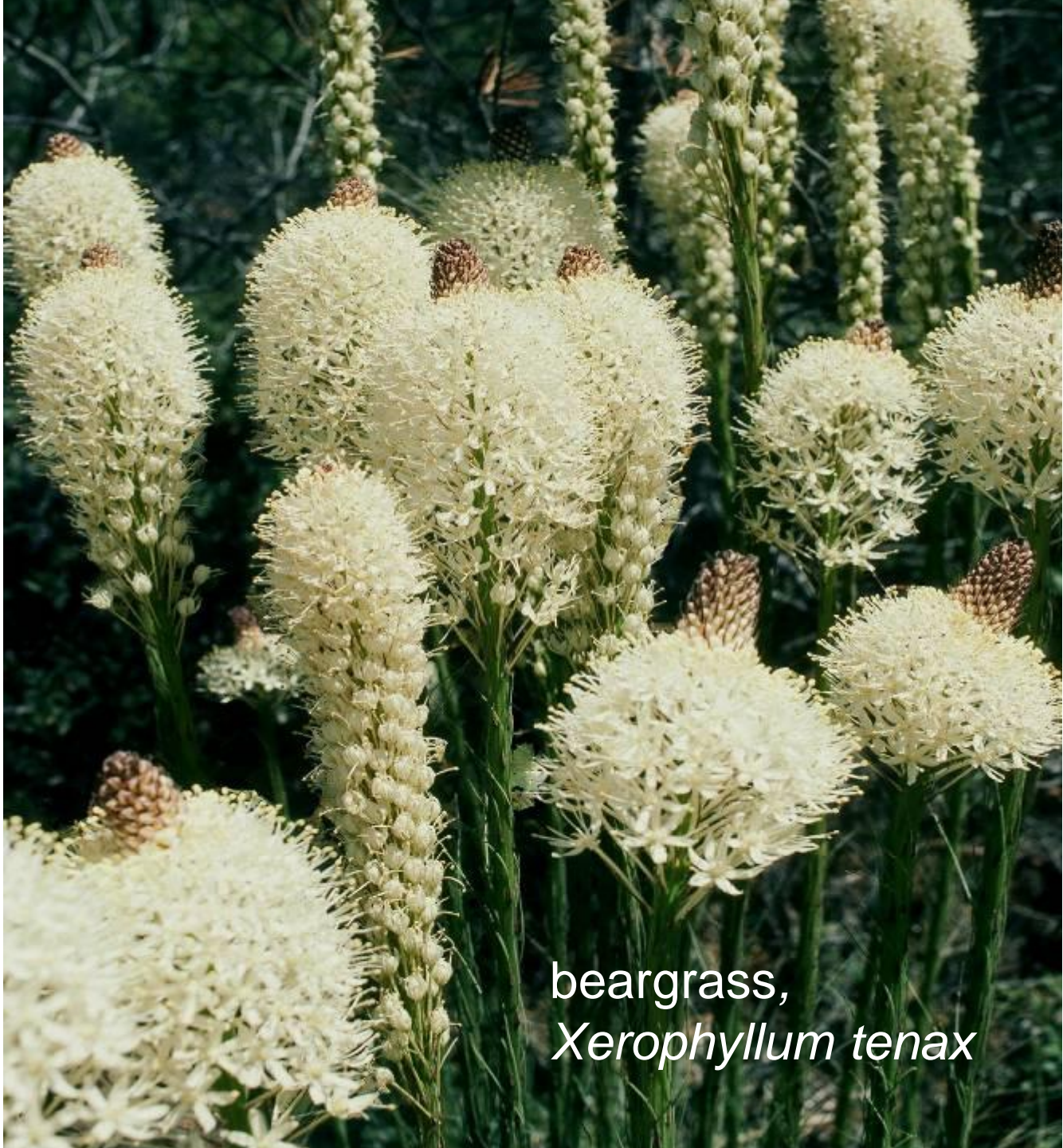
Lepechinia calycina, pitcher sage

Pedicularis densiflora – Indian warrior



Xerophyllum tenax – bear grass





beargrass,
Xerophyllum tenax

Oak Woodland, Oak Savanna, Coastal Grassland



Shooting star, *Primula (Dodecatheon) clevelandii*



Lupinus nanus – sky lupine



Lupinus latifolius –
broad-leaved lupine





L. microcarpus var. *densiflorus*,
gully lupine, chick lupine



L. chamissonis, silver beach



L. bicolor, miniature



L. stiversii, harlequin



L. truncatus, Nuttall's annual



L. formosus, summer



L. arboreus, tree



L. benthamii, spider

27 taxa in Monterey County!



Lupinus cervinus,
Santa Lucia lupine



Lupinus
hirsutissimus,
stinging lupine



Salvia spathacea,
hummingbird sage



Lasthenia minor, goldfields





Monolopia lanceolata



Brassica sp., mustard species





Sanicula arctopoides –
footsteps of spring





Taraxia (Camissonia) ovata - suncups

Viola pedunculata –
johnny jump-up






Ranunculus californicus, CA buttercup

Layia platyglossa – tidy tips





Matricaria suaveolens, pineappleweed

A close-up photograph of Hickman's onion flowers. The image shows two main clusters of small, light pink to white flowers with prominent stamens. The flowers are arranged in a dense, rounded inflorescence. The background is a blurred mix of green grass and brown pine needles, suggesting a natural, outdoor setting. The lighting is soft, highlighting the delicate structure of the petals and stamens.

Hickman's onion,
Allium hickmanii

Rod Yeager



Muilla maritima





Sisyrinchium bellum, blue-eyed grass



Clarkia purpurea ssp. *quadrivulera*



Clarkia lewisii

Clarkia unguiculata –
elegant clarkia






Calandrinia ciliata – red maids



Zeltnera davyi, Davy's centaury

Scutellaria tuberosa - skullcap





Delphinium patens,
coast larkspur





Nemophila menziesii, baby blue-eyes

Castilleja foliolosa, Indian paintbrush





Meconella linearis – narrow-leaved meconella



Platystemon californicus – cream cups

Amsinckia menziesii var. *intermedia* -
fiddleneck





Eschscholzia californica,
California poppy



Eschscholzia caespitosa,
tufted poppy



May 2014





April 2, 2016



Dendromecon rigida, bush poppy



Joseph Dougherty
<http://www.ecology.org>

Stylomecon heterophylla,
wind poppy



Papaver californicum – fire poppy

Rubus ursinus, wild blackberry – April 3, 2016





Lupinus albus – silver bush lupine



Lupinus arboreus – tree lupine







Castilleja, owl's clover





Trifolium wormskioldii, cow clover



Trifolium gracientum, pinpoint clover

Triteleia ixioides,
pretty face, golden brodiaea



Bloomeria crocea,
golden stars





Calochortus uniflorus,
large-flowered star tulip



C. luteus, yellow mariposa lily



Calochortus weedii, weed's mariposa lily

C. venustus, butterfly mariposa lily





Calochortus albus – fairy lantern, globe lily

Silene gallica –
windmill pink,
catchfly



Collinsia heterophylla,
Chinese houses

sky lupine



Cobweb thistle






MIXED EVERGREEN FOREST, REDWOOD FOREST and RIPARIAN FOREST



Populus trichocarpa, black cottonwood

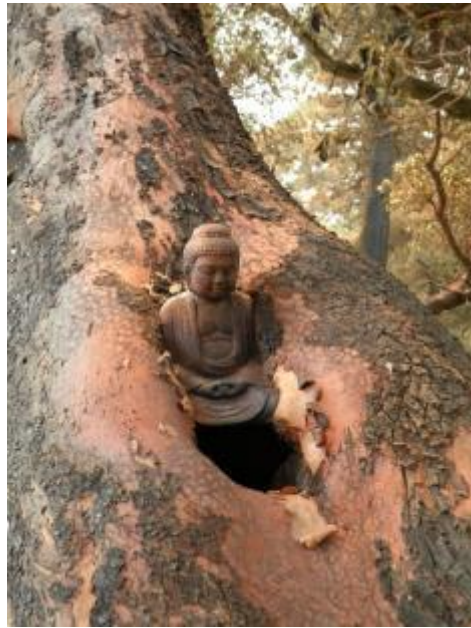


A close-up photograph of a willow branch with several catkins. The catkins are covered in white, fluffy, downy hairs. The branch is dark brown and has several green, lanceolate leaves. The background is blurred, showing more of the plant and some light-colored flowers or buds.

Salix lasiolepis, arroyo willow



Arbutus menziesii, madrone





Buckeye, *Aesculus californica*



male, staminate flowers



female, pistillate flowers



Oaks, *Quercus* sp.



Umbellularia californica, bay



fetid adder's tongue



Clintonia andrewsiana



Iris douglasiana, Douglas iris



Viola ocellata,
Two-eyed violet



Pedicularis dudleyi,
Dudley's lousewort

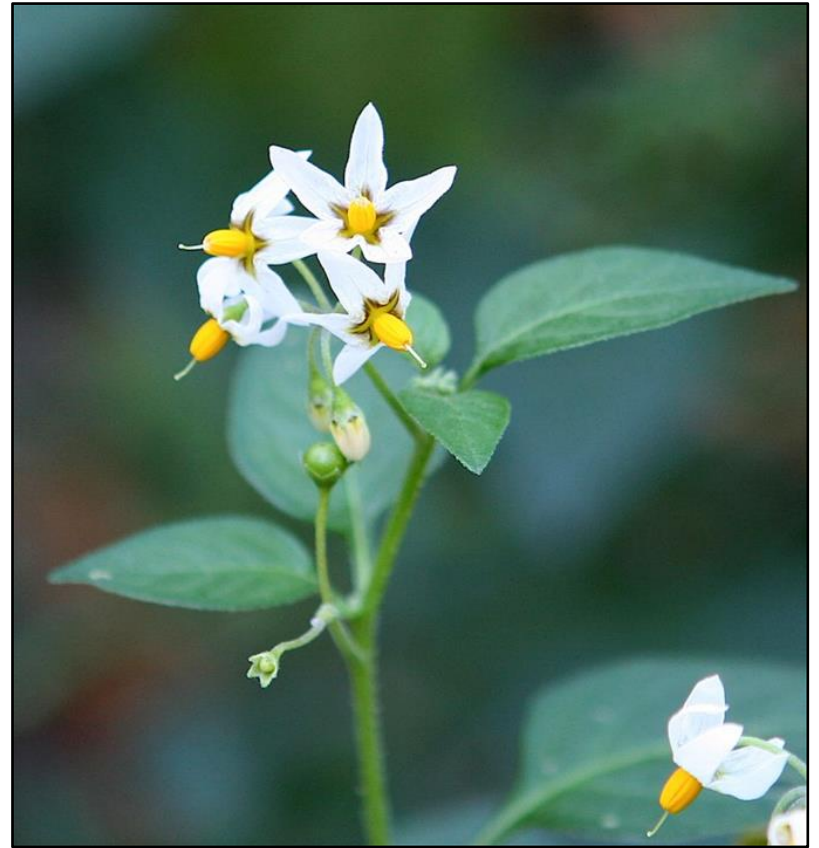
Trillium ovatum



Trillium chloropetalum, wakerobin



Solanum umbelliferum – blue witch



Solanum douglasii – Douglas nightshade





Saxifraga californica – saxifrage



Toxicoscordion fremontii, Fremont's star lily

Spiranthes romanzoffiana,
hooded ladies' tresses





Piperia yadonii –
Yadon's rein orchid

Piperia transversa



Fritillaria biflora, chocolate lily



Paeonia californica,
CA peony



F. biflora

VERNAL POOLS



Microseris paludosa –
marsh scorzonella







Psilocarpus brevissimus -
wooly marbles



Heliotropium curassavicum –
Chinese pusley



Toxicodendron diversilobum – poison oak