

Tonight's Agenda

Introduction

What is a California native plant

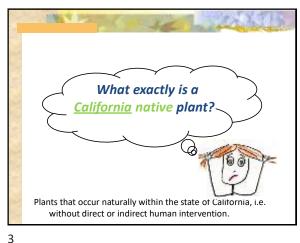
- Our California Climate
- Myths

about using California native plants in the garden

Benefits

from using California native plants in the garden

- How to begin in your yard
- 20 + California native plants



What is a local California native plant? (And why is that helpful) Also see www.calflora.org and www.calscape.org for answers to what's local to your city or county California Floristic Prov

Our Climate in a Nutshell

• Most of California, including the Bay Area, has a Mediterranean climate characterized by cool, wet winters and warm, dry summers.

• The average annual rainfall: Half Moon Bay 29.6" Redwood City 20.4" San Jose 15.9"

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(rainfall totals from usclimatedata.com)

Seasons of California

The Rainy Season, November - February

The beginning of our spring!

- begins with the first big rain
- plants begin to spring forth

The Wildflower Season, March - June

- days become longer, winter storms are warmer
- wildflowers take advantage of this time to grow and bloom

The Dry Season, July - October

- soil becomes dry
- this is the season when many plants are dormant



Myth:

Native plants are unattractive.

• Early settlers wrote glowing accounts of California flora.

• Plant hunters, started visiting California in the 18th century, documenting its flora and taking seeds back to Europe.

• Appreciation of our native flora was lost due to:

• Our insistence that our gardens look like those where we migrated from, areas with summer rain.

• The ability to irrigate (abundant and inexpensive water)

• Corporate Nurseries wanting to grow and sell the same plants throughout California and the US.

• Many California native plants don't like being in pots and are unattractive at the nursery.



Myth: Native plants are hard to find...and expensive.

CA native nurseries:

- Yerba Buena Nursery, 12511 San Mateo Rd. (Hwy 92)
- · Other nurseries can be found at
- · calscape.cnps.org/plant_nursery.php

General nurseries with some CA natives:

- SummerWinds Nursery 725 San Antonio Rd, Palo Alto
- · Half Moon Bay Nursery, 11691 San Mateo Rd. (Hwy 92),

Other sources

- Annual CNPS-SCV plant sales at Hidden Villa, Los Altos
- San Bruno Mountain Mission Blue Nursery plant sales, Brisbane
- For a complete list of nurseries, sales, events, helpful info, go to: cnps.org/gardening#bay

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Myth: If a plant is a California native, it must be drought-tolerant. Right?

• All newly planted native plants require water until established in the garden.

Provide deep watering at planting time, during the first one or two summers and thereafter based on the plant species.

 Once established, native plants have evolved to survive in their native range.

Their native range might be a moist environment: fog-belt, riparian, seep, wetland

What Does Drought-Tolerant Mean?

 Plants that survive in average or less-than average rainfall in your region.

A redwood that is drought-tolerant in Half Moon Bay 29.6"rain/yr) will likely NOT be drought-tolerant in San Jose (15.9" rain/yr).

 A plant that tolerates our six-month summer dry season once established except when we have a winter drought

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WUCOLS/MWELO

How do I know if a plant is drought tolerant: WUCOLS

- (Water Use Classification Of Landscape Species) Classifies plants as Very Low, Low, Medium, and High water use
- Developed by the California Center for Urban Horticulture, University of
- Find the list at ucanr.edu/sites/WUCOLS (We are region 1, North Central

MWELO: Model Water Efficient Landscape Ordinance In 2015 the state of California adopted the Model Water Efficient Landscape Ordinance to be implemented and enforced by either county or city ordinances.

- · Plant selection: average WUCOLS plant factor of 0.3 for 75% of the plant area
- Turf area not to exceed 25% of the landscape area
- Mulch: A minimum 3-inch layer should be applied in planting areas

Benefits of Native California Plants In the Garden

Create a diverse, beneficial, and beautiful ecosystem

- · Reduced water use
- Get paid to take out your lawn

The Bay Area Water Supply and Conservation Agency's (BAWSCA) Lawn be Gone (Ends June 30) bawsca.org/conserve/rebates/lawn

A healthier ecosystem

Habitat for native birds and insects Reduced pesticide and fertilizer use.

· No introductions of non-native invasive plants

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Do not plant milkweed if you live near the coast

- Milkweed should only be planted if you are more than **5 miles inland**. (From the Ocean and the SF Bay)
- You should instead focus on nectar plants.

www.openspacetrust.org/blog/monarch

Do not plant milkweed within 5 miles of coast

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- Our native plants host native insects.
- The effects of the absence of insects moves rapidly up the food-chain, especially influencing bird populations.

Habitat and Pesticide Use

Bringing Nature Home: How Plants Sustain Wildlife in our Gardens, Douglas Tallary, Department of Entomology and Wildlife Ecology, University of Delaware

Natural Systems and Fertilizer Use

- Natural systems are inherently beautiful
- Nothing goes to waste
- Inputs are limited

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Don't Plant an Invasive! Invasive Non-Natives Calla Lily: Zantedeschia aethiopica Iceplant: Carpobrotus edulis and Carpobrutus chilensis Mexican Feather Grass: Stipa tenuissima Montbretia: Crocosmia x crocosmiiflora Pampas grass: Cortaderia selloana Periwinkle: Vinca major Pride-of-Madeira: Echium candicans Scotch Broom: (Cytisus scoparius) Spruge: Euphorbia (several species) For a complete list go to the California Invasive Plant Inventory www.cal-ipc.org

How to Begin in Your Yard

• Basic Principles of Garden Design

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- Identify the microclimates found in your yard
- Use local, natural plant communities as models
 Go on field trips!
- Choose plants from those native plant communities associated with the microclimates in your yard
- The more diverse your garden is the more stable it will be

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Basic Principles of Garden Design

Balance
Contrast
Focal Points
Repetition

Native plants are best suited for informal landscapes

General Microclimates found in the Average Yard and the Associated Plant Community

Forest: Forests have a continuous canopy

In your yard: shady areas such as North facing planting areas and areas shaded by neighboring houses and fences

Woodland: Woodlands have a discontinuous breaks in the canopy cause patterns of sunlight and shade.

In your yard: East facing planting areas (morning sun, afternoon shade) and West facing planting areas (morning shade, afternoon sun)

Coastal scrub and Chaparral: Both generally areas of full sun. In your yard: South facing planting areas

Meadows: Can occur within all the communities. **Riparian:** Can occur within all the communities.

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The Mission of the California Native Plant Society (CNPS) is... To conserve California native plants and their natural habitats. To increase understanding, appreciation, and horticultural use of native plants. Please consider joining the California Native Plant Society www.CNPS.org

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Selecting the Plants • Start big, work to small Build your garden's foundation and focal points Decorate with the small stuff Select appropriate plants, think about: Can the plant that can grow to its natural shape and size in the space allotted Will the plant grow into powerlines Is the plant summer dormant Is the plant deciduous Does the plant spread by underground stems or rhizomes Does the plant have thorns Can the plant tolerate summer water Should the plant be planted on a slope Should the plant be cut back yearly Are you identifying hydrozones Are you thinking about fire-wise landscaping

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Soil Drainage Test • Dig hole 18-24" deep (width is not important) Use shovel or posthole digger • Fill hole with water to the top • Let drain overnight (pre-wet) • Re-fill hole to within a couple inches of the top • Measure drop in water level after 30 minutes and after 1 hour Less than 1/2 inch per hour - Poorly drained soil 1/2 inch to 1 inch per hour - Moderately well drained soil More than 1 inch per hour - Well drained soil

How to Plant Diagram from Sunset Western Garden Book Planting steps from Theodore Payne Foundation website

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Mulch Moderates soil temperature and helps retain moisture • Use weed and disease-free mulch • Spread 2-4" around landscaped area • Leave 2-3" clear around the crown of each plant Different California native plants prefer different types of mulch. Know what mulch plants prefer by visiting Calscape.org.

What to Expect "The first year they sleep, the second year they creep, the third year they leap." Remember: Summertime is our dormant season. Many of our native plants are not looking their best! Remember: Gardening is part knowledge and a lot trial and error. Observe and learn from failures.

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References California Native Plants for the Garden; Carol Bornstein, David Fross, Bart O'Brien Ceanothus; David Fross and Dieter Wilken Sunset Western Garden Book Bay-Friendly Landscape Guidelines; www.stopwaste.org California Invasive Plant Inventory : www.cal-ipc.org California Native Plant Society: www.cnps.org Usefull Websites Calflora - Calscape - Las Pilitas Nurserv - Theodore Payne Foundation - www.firesafesanmateo.org

The Big and Little Four The Big Four The Little Four Salvia · Arctostaphylos Ceanothus • Eriogonum Ribes • Diplacus (Mimulus) Berberis Penstemon Bloom late fall – late spring Bloom late spring – dry season Found in most plant communities in California Provide bloom all year round Attract hummingbirds, native bees, and butterflies

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TREES

VALLEY OAK (Quercus lobata)
COAST LIVE OAK (Quercus agrifolia)
ISLAND OAK (Quercus tomentella)
CALIFORNIA BUCKEYE (Aesculus californica)
CATALINA IRONWOOD (Lyonothamnus floribundus ssp aspleniifolius)*
BLUE ELDERBERRY (Sambucus nigra ssp.caerulea)
DESERT WILLOW (Chilopsis linearis)

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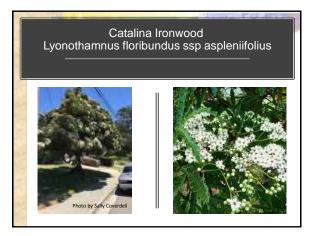


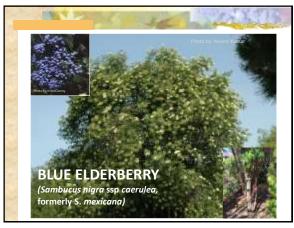
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Large Shrubs
(May be shaped into trees)

SCRUB OAK (Quercus berberidifolia)
CATALINA CHERRY (Prunus ilicifolia spp. lyonii)
HOLLY-LEAVED CHERRY (Prunus ilicifolia)
RAY HARTMAN WILD LILIC (Ceanothus 'Ray Hartman')
SILK TASSEL BUSH (Garrya elliptica 'James Roof' or 'Evie')
TOYON (Heteromeles arbutifolia)
DR. HURD MANZANITA (Arctostaphylos 'Dr. Hurd')



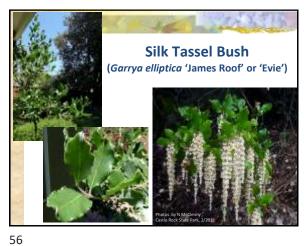
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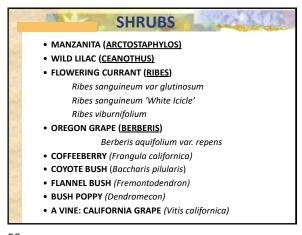


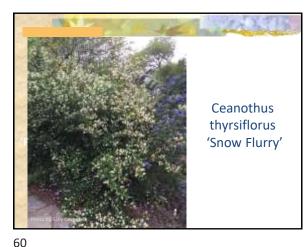
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SHRUBBY PERENNIALS

• SAGE - SALVIA

Salvia millifera 'Terra Seca'
Salvia clevelandii x leucophylla 'Pozo Blue'
Salvia spathacea

• BUCKWHEAT - ERIOGONUM
Eriogonum fasciculatum
Eriogonum fasciculatum 'Theodore Payne' or 'Warriner Lytle'
Eriogonum giganteum

• MONKEYFLOWER - DIPLICUS (MIMULUS)
Diplacus aurantiacus
Diplacus 'White'

• BEARDTOUGUE - PENSTEMON

Penstemon heterophyllus 'Margarita BOP'

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Salvia clevelandii x leucophylla 'Pozo Blue' (Gray Mist Sage)

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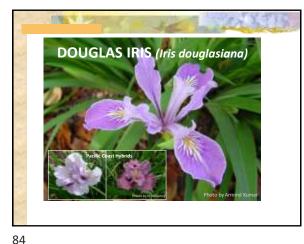


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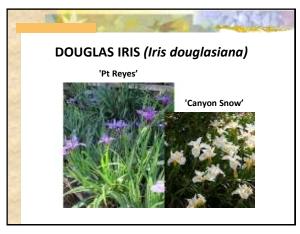








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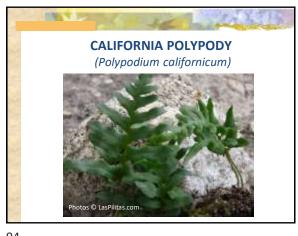
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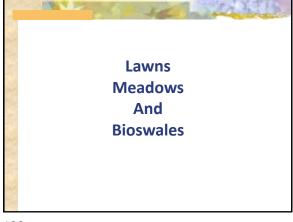
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