

Please consider joining the California Native Plant Society www.CNPS.org

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.

Today's Agenda

Introduction

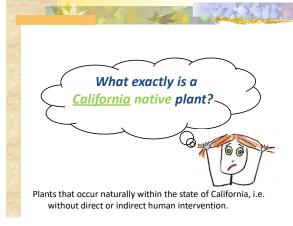
What is a California native plant What is a local California native plant

- 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
- FAQ

5

- California Native Plants for Your Landscape
- · Lawns, Meadows and Bioswales

3



4



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"

(rainfall totals from usclimatedata.com)

(



Hummingbird Sage
(White, succulent leaves)

California Buckeye
(Summer déciduous)

Cast Live Oak
(Leathery leaves the edges of the leaves cul under when stressed)

Foresse this allele by McClemy

8



9

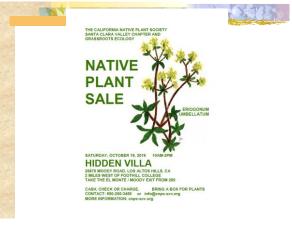
Myth: Native plants are unattractive.

- 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 in northern Europe, areas with summer rain.
 - hose in northern Europe, areas with summer rai · The ability to irrigate
 - (abundant and inexpensive water)
 - Corporate Nurseries wanting to grow and sell the same plants throughout California and the US.
 - California native plants can be sensitive to wet roots during warm summer months
 - Many California native plants don't like being in pots and are relatively unattractive at the nursery.



10





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?

- A plant that tolerates our six-month summer dry season once established except when we have a winter drought
- Plants that survive in average or less-than average rainfall in your region.

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

Your <u>Local</u> California Native Plants are drought tolerant where you live.

13

15

17

Benefits of Native California Plants In the Garden

Create a diverse, beneficial, and beautiful ecosystem

- · Reduced water use
- Get rebates

BAY P

The Bay Area Water Supply and Conservation Agency (BAWSCA) bawsca.org/conserve/rebates

· A healthier ecosystem

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

• No introductions of non-native invasive plants

1 1

Habitat and Pesticide Use

- · Our native plants host native insects.
- The effects of the absence of insects moves rapidly up the food-chain, especially influencing bird populations.
- To maintain native wildlife, a landscape should include a minimum of 70% native plants

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

Gardening for Biodiversity in a Climate Crisis, cnps-scv.org/symposium, Saturday, Sept. 21, 2019

16

New York Science Outdoor cats kill between 1.4 billion and 3.7 billion birds a year, study says



Researchers estimate one pet cat kills between one and 34 birds a year, while a feral cat kills between 23 and 46 birds a year. Washington Post January 31, 2013

Natural Systems and Fertilizer Use

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

3



How to Begin in Your Yard

• Basic Principles of Garden Design

20

22

- 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

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

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

Woodland: Woodlands have 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.

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

In your yard: South facing planting areas

21



Please consider joining the California Native Plant Society www.CNPS.org

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.



Going Native Garden Tour 2020

Oganized by the California Native Plant Society (Santa Clara Valley Chapter) in association with UCCE Master Gardeners of Santa Clara County.
South: Sat, May 02, 2020, 10:00am to 4:00pm North: Sun, May 03, 2020, 10:00am to 4:00pm

A free tour of native gardens in Santa Clara Valley & Peninsula, San Francisco Bay Area

GNGT.ORG

26

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 grouping plants with the same mulch preference

Are you thinking about fire-wise landscaping



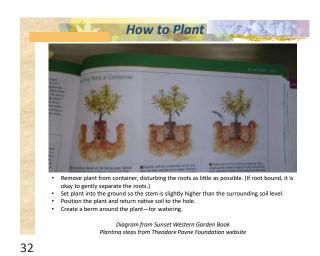
27

www.firesafesanmateo.org/.../fire-safe-landscaping www.laspilitas.com Leaf burn times of California native plants



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





When to Plant

• Summer is the most difficult season to install native plants.
Wait until fall through early spring (February).

If you insist on planting in the summer:
• Easier Plants: Plants that are accustomed to summer moisture.
Grasses
Water-loving riparian plants
Shade-loving plants
Desert plants

• Difficult Plants:
Ceanothus
Arctostaphylos
Penstemon
Fremontodendron

A Suggested Watering Schedule

Immediately after planting:
Hand water the area well
Fill the berm area around the plant and let drain 2-3 times

1st season: Water once a week,
More often during heat waves
Less often or not at all during the rainy season
Twice a week check the root area of
new plants 2-3" below the surface, if dry, water

2nd season: Water once every 2 weeks

3rd season and beyond: Water as needed,
based on the location, size, and species of plant.

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.

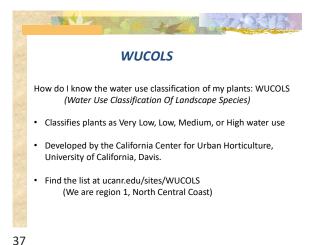
(Mulch is listed in the landscape information of each plant)

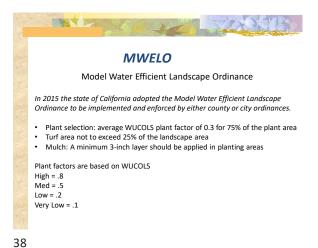
Hydrozones
Important if you have or are installing an irrigation system

A zoning plan is created
Each valve controlling irrigation applies water to:

• Areas of similar microclimate, with
• Plants with similar water requirements

36







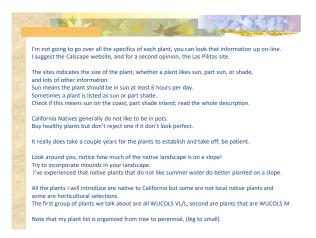
The Big and Little Four The Big Four The Little Four Arctostaphylos Salvia Ceanothus • Eriogonum Ribes • Diplacus (Mimulus) Berberis Penstemon Bloom late fall – late spring Bloom late spring – dry season Found in most plant communities in California Provide bloom all year round Attract hummingbirds, native bees, and butterflies 40

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 Nursery
- Theodore Payne Foundation
- www.firesafesanmateo.org

Easy-to-Grow,
Drought-Tolerant-Once-Established
Native Plants for the Bay Area
(WUCOLS VL/L)



TREES

VALLEY OAK (Quercus lobata)

COAST LIVE OAK (Quercus agrifolia)

ISLAND OAK (Quercus tomentella)

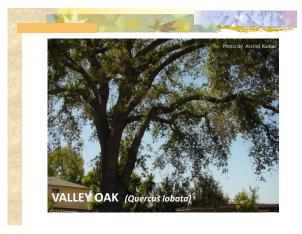
CALIFORNIA BUCKEYE (Aesculus californica)

CATALINA IRONWOOD (Lyonothamnus floribundus ssp aspleniifolius)*

BLUE ELDERBERRY (Sambucus nigra ssp.caerulea)

DESERT WILLOW (Chilopsis linearis)

43 44





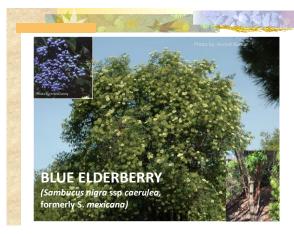
45 46

























57



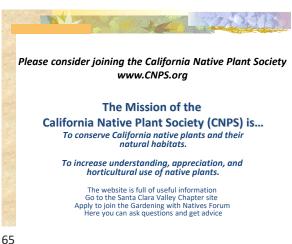
















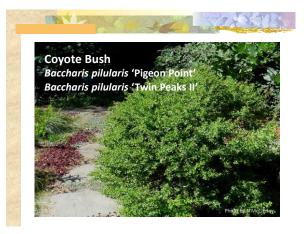






69 70















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'





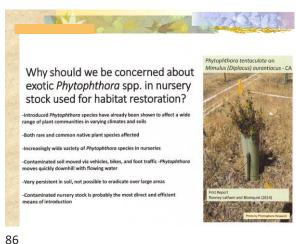
















87 88





90











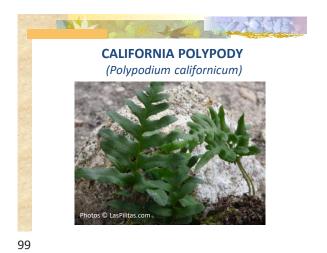


CALIFORNIA FUCHSIA Epilobium canum





97

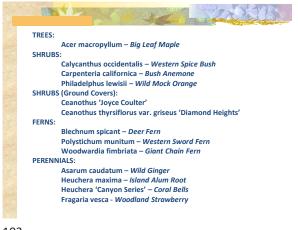


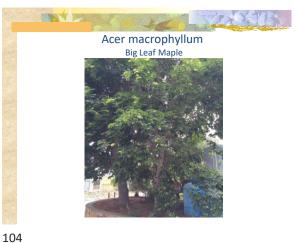


DEER GRASS (Muhlenbergia rigens)

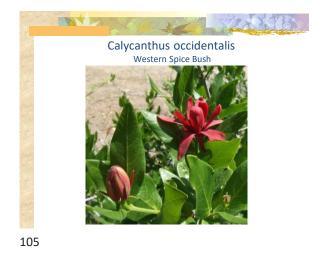
Photos © Laspillas com







103



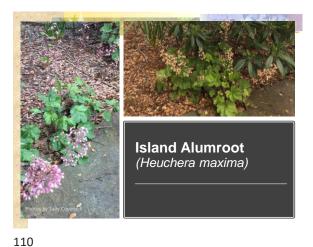


Philadelphus lewisii 'Goose Creek'
Western Mock Orange

107







Coral Bells 'Canyon Series' (Heuchera 'Canyon Series')





Asarum caudatum (Wild Ginger)

111



Please consider joining the California Native Plant Society www.CNPS.org 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. The website is full of useful information Go to the Santa Clara Valley Chapter site Apply to join the Gardening with Natives Forum Here you can ask questions and get advice

































129









133





135













141 142









145



