

DROUGHT TOLERANT



PLANT SELECTION

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**Which plants
are drought tolerant?**

WUCOLS IV

Water Use Classification of Landscape Species

- 3500 species of landscape plants
(Including 44 different Manzanitas, 49 Oaks, and 90 Sages!)
- Listed by the amount of water they need
- Compared to irrigated turf grass (% ET_o)

Category	Abbreviation	Percentage of ET _o
High	H	70-90
Moderate/Medium	M	40-60
Low	L	10-30
Very Low	VL	< 10

HELP WITH HYDROZONING!

www.waterwonk.us

California plant database search tool

Choose city ► Plant search ► My plant list

1

A plant's water needs vary with the climate region where it will live. Choose a city and the tool will place your search in the correct WUCOLS climate region.

2

Proceed to the plant search page, and search to your heart's content. There are 12 different search criteria you could specify, or just bring up the entire regional list, or the full list showing all plants and all 6 regions. You will be presented with the WUCOLS water-use value for each plant.

3

Create a list of plants for your project. This list can be printed or downloaded to your favorite spreadsheet program. We will save your plant lists for you in our database.

- You may have one courtesy plant list for each region. To access your existing plant list for any given region, you must first choose a city in that region, and then go to the plant search page. Your list may be accessed from the "Plant Search" page.
- In order for you to create plant lists, you must register for the site. Signing up is free, quick, and easy to do.

What is WUCOLS?

Water Use Classifications of Landscape Species

Water Use Classifications of Landscape Species (WUCOLS) provides a guide to estimating irrigation water needs of landscape plantings in each of 6 distinct California climate regions. WUCOLS was developed by the University of California Cooperative Extension in cooperation with landscape professionals and funded by the California Department of Water Resources.



Click pdf icon to view or download WUCOLS IV plant list. Learn more about WUCOLS [here](#)

Get started



Choose City to identify WUCOLS REGION

[Show instructions](#)

Find city in WUCOLS REGION **Go to
Plant Search**

	1 North Central Coastal ▾	
	2 Central Valley ▾	
	3 South Coastal ▾	
	4 South Inland Valley ▾	
	5 High and Intermediate Desert ▾	
	6 Low Desert ▾	

Or find by city name **Find city**

Begins with 

Search for a category

Example: very low water ground covers

Plant Search

North Central Coastal, CA

WUCOLS Region 1

[Choose new city](#)

[Save to PDF](#)

Botanical name begins with

Common name begins with

Plant Type

- Ba Bamboo
- Bu Bulb
- G Grass
- Gc Groundcover
- P Perennial
- Pm Palm
- S Shrub
- Su Succulent
- T Tree
- V Vine

Water use

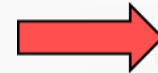
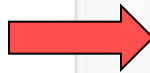
- Very Low
- Low
- Moderate
- High
- Unknown
- Not appropriate for this region

California Native

Reduced Summer Water [What's this?](#)

[Go to WUCOLS list for all 6 regions](#)

All plants for this region



Plant Search

North Central Coastal, CA

WUCOLS Region 1

[Choose new city](#)

[Save to PDF](#)

Botanical name begins with

Common name begins with

Plant Type

Ba Bamboo Pm Palm

Bu Bulb S Shrub

G Grass Su Succulent

Gc Groundcover T Tree

P Perennial V Vine

California Native

Water use

Very Low

Low

Moderate

High

Unknown


Not appropriate for this region

Reduced Summer Water [What's this?](#)

[Go to WUCOLS list for all 6 regions](#) All plants for this region

 New Search

 California Native







 Reduced Summer Water

Search Results

7 plants:

Type-Groundcover

Water use-Very low

Type	Botanical Name	Common Name	Water Use	Flickr Photos	Select for My List
Gc S	Acacia redolens 	prostrate acacia	Very Low	See it	<input type="checkbox"/> <input type="button" value="Add"/>
Gc S	Adenostoma fasciculatum 	chamise	Very Low	See it	<input type="checkbox"/>
Gc S	Artemisia spp. (shrubby)	sagebrush	Very Low	See it	<input type="checkbox"/>
Gc S	Atriplex CA native species 	saltbush	Very Low	See it	<input type="checkbox"/>
Gc S	Atriplex semibaccata 	Australian saltbush	Very Low	See it	<input type="checkbox"/>
Gc	Iva hayesiana  	poverty weed	Very Low	See it	<input type="checkbox"/>
Gc P	Teucrium cossonii	Majorcan germander	Very Low	See it	<input type="checkbox"/>



Results for "Very Low Groundcover"
Click on "See it" for a picture!

Teucrium cossoni - Majorcan Germander



Search for a plant and find out its water requirement

Plant Search
North Central Coastal, CA
WUCOLS Region 1

[Choose new city](#)
[Save to PDF](#)

Botanical name begins with

Common name begins with

Plant Type

Ba Bamboo Pm Palm
 Bu Bulb S Shrub
 G Grass Su Succulent
 Gc Groundcover T Tree
 P Perennial V Vine

California Native

Water use

Very Low
 Low
 Moderate
 High
 Unknown
 Not appropriate for this region

Reduced Summer Water [What's this?](#)

[Go to WUCOLS list for all 6 regions](#) All plants for this region

[New Search](#) [California Native](#) [Reduced Summer Water](#)

[Go to list](#)

Search Results

1 plants:
common name
begins with "Japanese Maple"

Type	Botanical Name	Common Name	Water Use	Flickr Photos	Select for My List
T	Acer palmatum	Japanese maple	Moderate	See it	<input type="checkbox"/> <input type="button" value="Add"/>

Not all natives are DT

Many non-natives are DT

Mediterranean plants

- From 5 regions of the world with shared climates
- Grey, small or fuzzy leaves
- Leaves held sideways to the sun

Succulents & cacti

- Fleshy, water holding leaves
- No leaves!
- Summer dormancy

Trees

An Assortment of Low Water Trees

Acacia

California Buckeye

Canary Island Pine

Carolina Cherry

Chinese Pistache

Chitalpa

Crape Myrtle

Deodar Cedar

Elm

Eucalyptus

Live Oak

Locust

Majestic Beauty Indian Hawthorn

Marina Strawberry Tree

Palo Verde

Pepper Tree

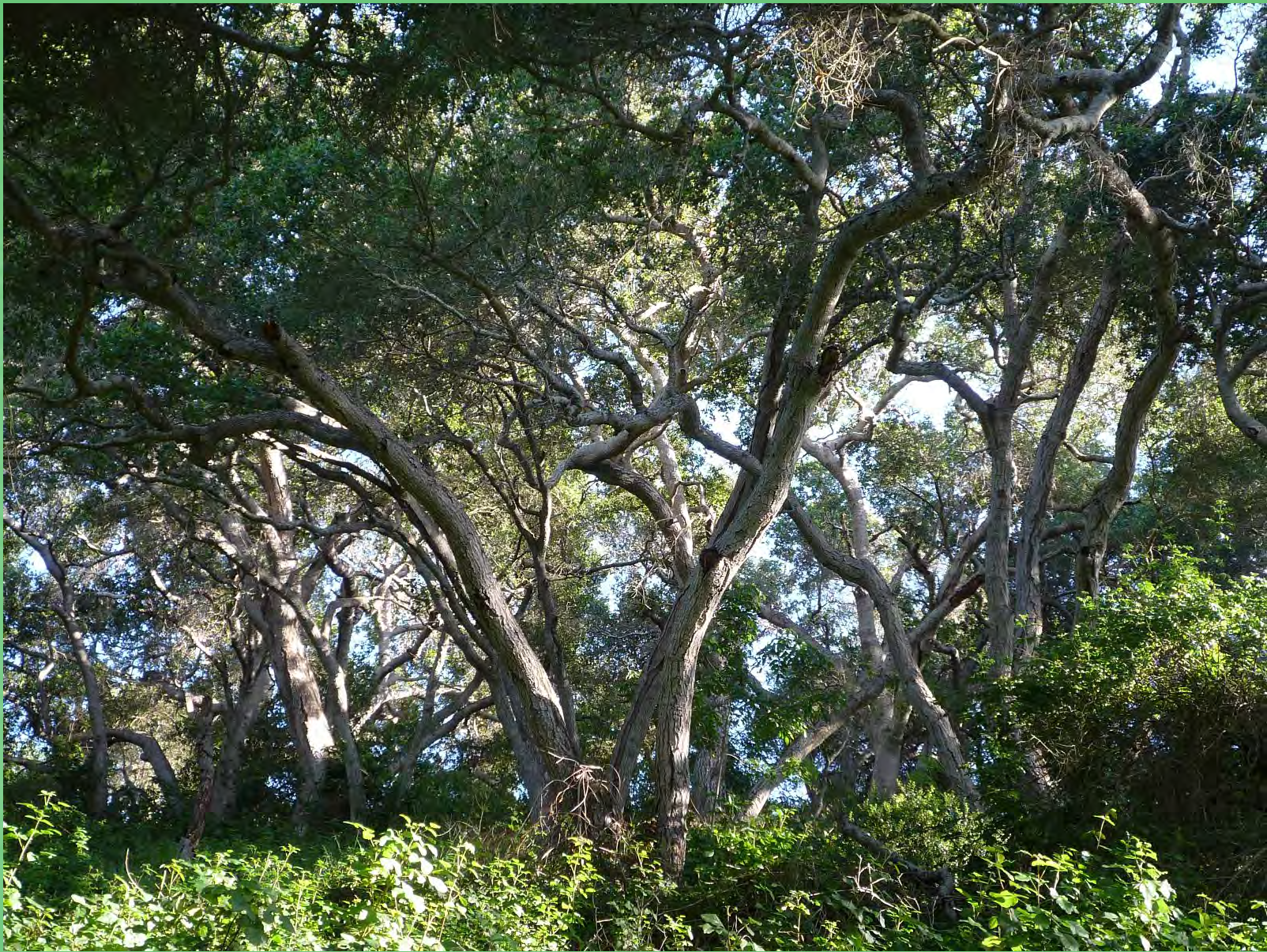
Toyon

Weeping Bottlebrush

Western Redbud



Coast live oak: *Quercus agrifolia*



Coast live oak: *Quercus agrifolia*



Desert Museum Palo Verde:
Cercidium hybrid



Wild lilac: *Ceanothus* 'Ray Hartman'

Photo from book "*Ceanothus*" by David Fross



Manzanita *Arctostaphylos* 'Dr. Hurd'



California Buckeye

Aesculus californica



Buckeye: New Spring growth



Buckeye: *Aesculus californica*



Western Redbud
Cercis occidentalis



Western redbud: *Cercis occidentalis*

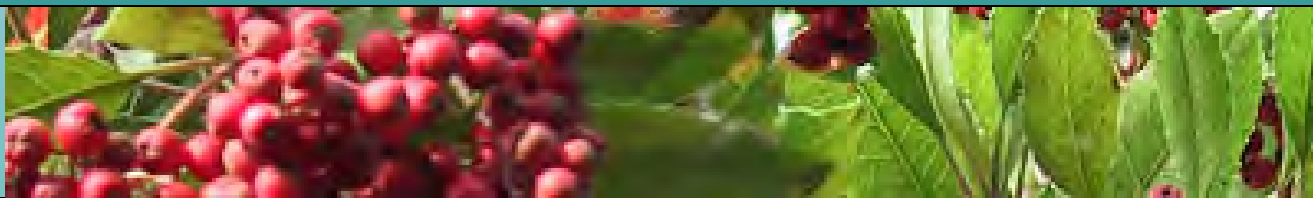




Western redbud:
Cercis occidentalis



Toyon - *Heteromeles arbutifolia*





x Chitalpa taskentensis

Low Water Edible Trees

Apricot

Avocado

Chinese Jujube

Date Palm

Elderberry

Filbert

Loquat

Nectarine/Peach

Olive

Pecan

Persimmon

Pinyon Pine

Pistachio

Plum

Pomegranate

Quince

Strawberry Tree

Sweet Bay

- Drought tolerant
- Fall color
- Disease and pest free
- Gorgeous edible fruit

Persimmon





Pomegranate: *Punica granatum*

Elderberry: *Sambucus mexicana*



Shrubs

Pineapple Guava

- Edible flowers and fruit
- Evergreen
- Drought tolerant
- Screening shrub
- Small attractive tree



Pineapple Guava:
Feijoa sellowiana

California Coffeeberry *Rhamnus californica* 'Mound San Bruno'



California native. Birds like the seeds which look like Coffee Beans.

Dwarf Bottlebrush *Callistemon* 'Little John'



No pruning necessary. Attracts hummingbirds

Australian Fuchsia *Correa* 'Dusky Bells'



Dry shade okay, deer don't eat it, hummers like it



Sand Hill sage

Artemisia pycnocephala 'David's Choice'

Snowberry *Symphoricarpus albus*



birds eat berries



Bush Poppy:
Dendromecon rigida



Wild lilac: *Ceanothus* 'Julia Phelps'



California Lilac: *Ceanothus* 'Valley Violet'



Ceanothus 'El Dorado'





Matilija Poppy
Romneya coulteri

Blooms a long time



Cedros Island Verbena
Verbena lilacina 'De La Mina'



Flowering Currant
Ribes sanguineum var. *glutinosum*



Selected cultivars of Ribes:
R. 'White Icicle' & 'Barrie Coate'



Golden Currant:
Ribes aureum





Design: Sherri Osaka Photo: Deva Luna

St. Catherine's Lace



Eriogonum giganteum
St. Catherine's lace



St. Catherine's lace fall color



Eriogonum arborescens:
Santa Cruz Island Buckwheat



California bush anemone: *Carpenteria californica*



Redtwig dogwood *Cornus sericea ssp sericea*



Western hazelnut
Corylus cornuta var. *cornuta*



Western hazelnut:
Corylus cornuta californica



Cleveland Sage

Salvia clevelandii



Cleveland's sage:
Salvia clevelandii



California Buckwheat and Cleveland Sage



Woolly blue curls:
Trichostema lanatum



Woolly blue curls:
Trichostema lanatum



Manzanita: *Arctostaphylos densiflorus* 'Howard McMinn'



Manzanita: *Arctostaphylos densiflorus* 'Howard McMinn'

Perennials



Golden Aster

Heterotheca sessiliflora 'San Bruno Mountain'

California Fuchsia *Epilobium* 'Everett's Choice'



Sun. Blooms in late summer/fall when hummingbirds don't have many flowers

California native.

Cut back to ground after bloom (November)



California Fuchsia

Epilobium canum



Low California Fuchsia border at
Gamble Gardens



Coyote Mint *Monardella villosa*



California native perennial attractive to butterflies, bees & hummers. Fragrant leaves.



Coyote mint:
Monardella villosa obispoensis



Monkey Flower
Mimulus aurantiacus 'Pumpkin'



Sticky monkeyflower varieties:
Mimulus 'Valentine' & 'Eleanor'

Foothill Penstemon *Penstemon 'Margarita BOP'*



California native perennial attractive to hummingbirds.
Cut back after bloom.



Scarlet bugler:

Penstemon centranthifolius



Sulfur buckwheat:
Eriogonum umbellatum var. *polyanthum*



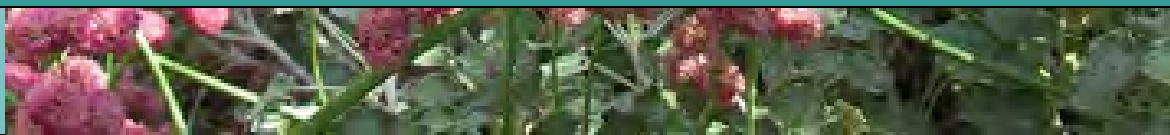
Sulfur buckwheat:

Eriogonum umbellatum var. *polyanthum*



Rosy Buckwheat (CN)

Eriogonum grande* var. *rubescens





Rosy buckwheat
Eriogonum grande var. *rubescens*



California buckwheat
Eriogonum fasciculatum



California buckwheat
Eriogonum fasciculatum





Photo: Deva Luna

Beach Aster

Erigeron glaucus 'Wayne Roderick'



Yarrow *Achillea millefolium*

Ground Covers

Reliable low groundcover
(better than Emerald Carpet)



Carmel Sur Manzanita
Arctostaphylos edmundsii 'Carmel Sur'

Evergreen, 2' high ground cover



Coffeeberry Rhamnus 'Seaview Improved'

Dwarf Coyote Bush *Baccharis* 'Pigeon Point'



California native that spreads 9'! Selected from a coastal dwarf plant. Great for erosion control. Can be cut back to the ground to renew.

Grevillea 'Coastal Gem'



Sun. Spreader from Australia. Blooms in winter when hummingbirds don't have many flowers.

Rosemary *Rosmarinus* 'Huntington Carpet'



Sun. Blooms in February, great for bees. European spreader.



Design: Fran Adams Photo: Deva Luna

Rosemary & Dwarf Coyote Bush



Wild lilac: *Ceanothus* 'Yankee Point'



Ceanothus 'Diamond Heights'





Three Ceanothus in Redwood City, duking it out:
C. 'Diamond Heights', *'Yankee Point'* & *'Dark Star'*



Salvia 'Bee's Bliss'

Design: Stephanie Morris

Installation: Curtis Horticulture

Yerba Buena *Satureja douglasiana*



California native ground cover for dry shade with fragrant leaves. Non-invasive member of mint family. Grows under oaks.



Hummingbird Sage

Salvia spathacea

The only *Salvia* that grows in the shade.

Grasses

Dramatic accent grass



Deer Grass – *Muhlenbergia rigens*

Berkeley Sedge *Carex divulsa (tumulicola)*



Versatile green mophead: grows with drought or water, sandy or clay soil, sun or shade! Non-native, despite its name.



Design & Installation: Erin Dougherty Photo: Deva Luna

BERKELEY SEDGE



Design & Installation: Erin Dougherty

Photo: Laura Gardner

Berkeley Sedge after haircut



Design & Photo: Agi Kehoe

Berkeley Sedge with Wildflowers



Idaho fescue:
Festuca idahoensis



Native Red Fescue: *Festuca rubra*



- Prefers a bit of shade
- Needs to be cut back annually



RED FESCUE



Design & Installation: Middlebrook Gardens Photo: Stephanie Morris



NATIVE SOD NOW AVAILABLE

Vines

Catalina Perfume

Grapes

Bougainvillea

Cecile Brunner & Lady Banks Rose

California Pipe Vine

Blue Dawn Flower

Carolina Jessamine

Catclaw Vine

Hops



California Grape
***Vitis californica* 'Roger's Red'**

A reasonable sized plant for a trellis



Catalina Perfume – *Ribes viburnifolium*

Bougainvillea



Lady Banks — *Rosa banksia lutea*



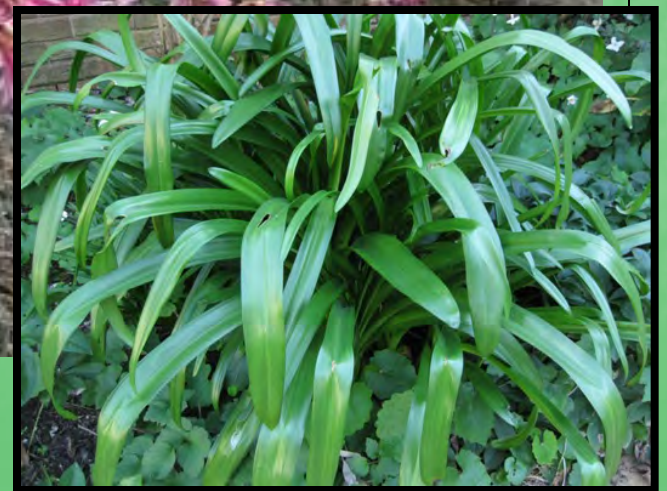
Cecile Brunner Climbing Rose

Drought tolerant roses!



California pipe vine:
Aristolochia californica

Bulbs



Naked Ladies: *Amaryllis belladonna*



Meadow onion: *Allium unifolium*



Douglas's iris:
Iris Douglasiana



Pacific Coast hybrid iris: *Iris* 'Idylwild'



**Pacific Coast
Hybrid Iris**

Annuals

California natives

Plant seeds in Fall, for rainfall



Farewell-to-Spring: *Clarkia amoena*



California Poppy *Eschscholzia californica*

Actually a perennial, not an annual!



Succulents

Succulents have great texture



Soap Aloe *Aloe saponaria*



Excellent for hummers





Delosperma 'Desert Flame'



Sempervivum 'Red Beauty'



Echevaria 'Perle von Nurnberg'

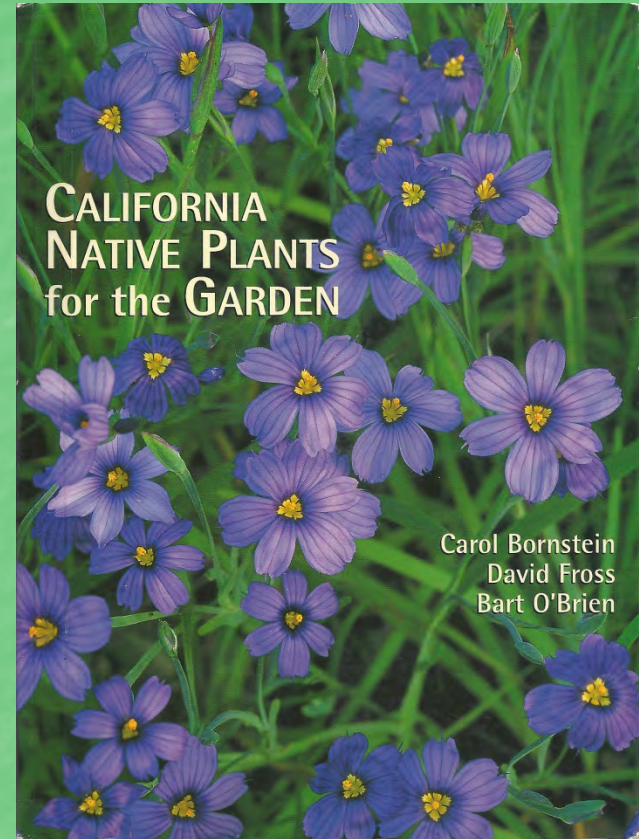
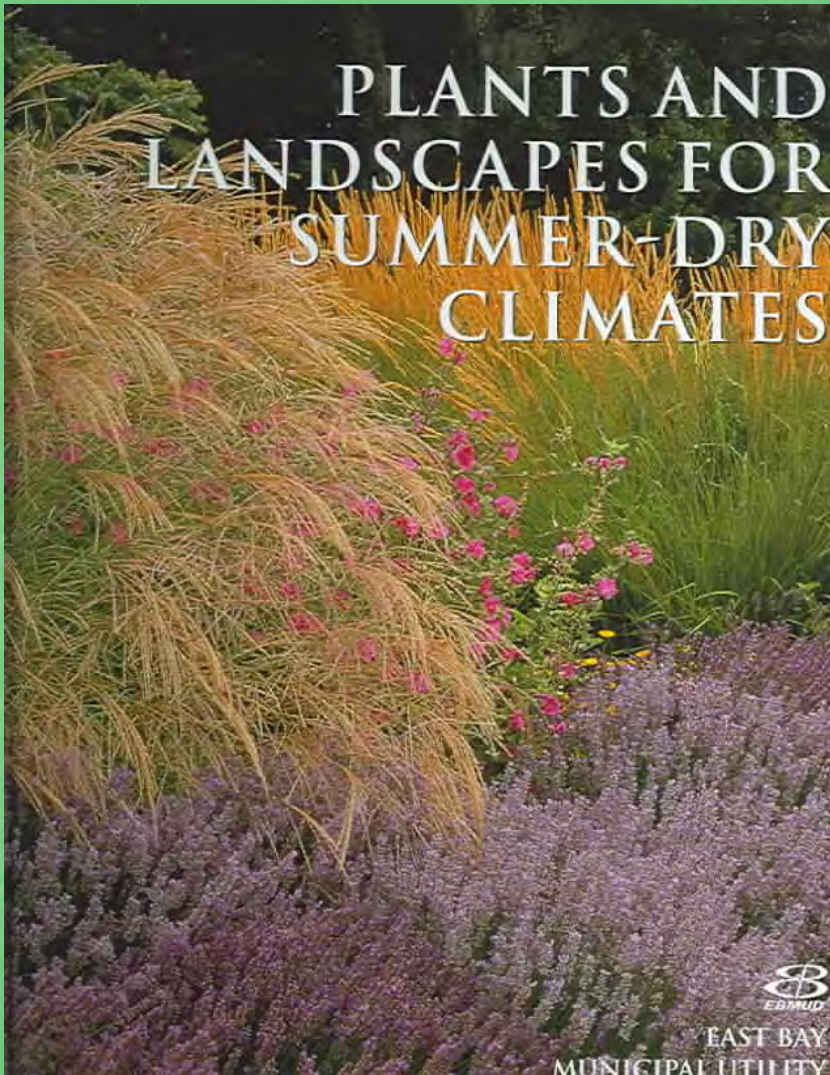
Ferns



Summer dormancy

California Polypody

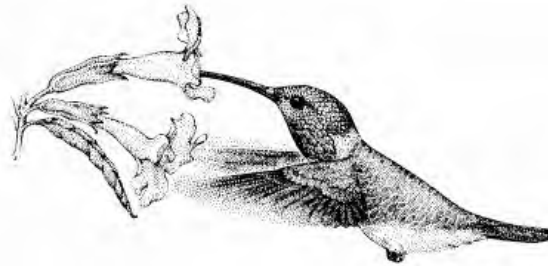
Good reference books



Nurseries with a good selection of natives

- California Native Plant Society Sales, Hidden Villa, Los Altos Hills, April and October
- Summerwinds, Palo Alto and other locations
- Almaden Nursery, San Jose
- Yerba Buena Nursery, Half Moon Bay
- East Bay Wilds, Oakland
- Native Revival Nursery, Aptos
- Lerner Seeds, mail order seeds
- Annie Annuals, Richmond and online
- Las Pilitas online

Sunday
May 7, 2017
10 am-5 pm



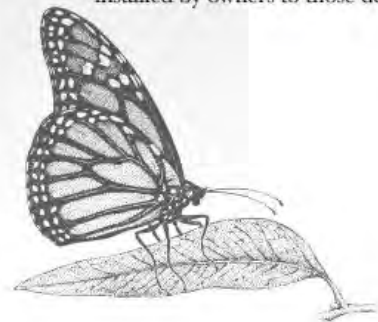
Bringing Back
the
Natives
Garden Tour

Companion event

Native Plant Sale Extravaganza
Saturday and Sunday May 6 & May 7

A free, self-guided tour of 40 Alameda and Contra Costa county gardens

This delightful collection of native plant gardens ranges from Al Kyte's 40-year-old wildlife oasis to brand new installations, from large lots in the hills to small front-yard gardens, from local native plants to natives from throughout California, and from gardens designed and installed by owners to those designed and installed by professionals.



Free!

- Passes to 40 gardens
- Garden Guide that provides details on each garden
- Garden talks scheduled throughout the day

Learn how to:

- Select and care for California native plants
- Attract butterflies, birds and bees to your garden
- Garden without pesticides (and protect your children and pets!)
- Lower your water bill

California is going crazy in bloom!

