









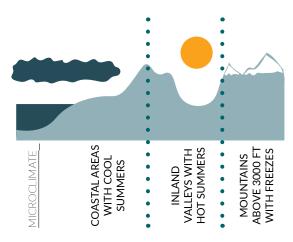
what, why, and how to plant species for inland valleys with hot summers to save water and enhance your neighborhood & ecosystem health

BASICS

California has a number of different climatic, therefore ecologic, zones that range from the desert to the redwoods. Each has a set of native and climate appropriate plants that are best suited to that environment and should be propogated to the benefit of other plant & animal species and water resources.



Along the Californian coast, regional microclimates are defined by coastal fog, which is trapped by coastal mountains. This leaves coastal inland valleys hotter and dryer than regions sandwhiched between the ocean and mountains.



We will focus here on the climate appropriate plantings of inland valleys with hot summers, such as the Sonoma Valley region.

DO

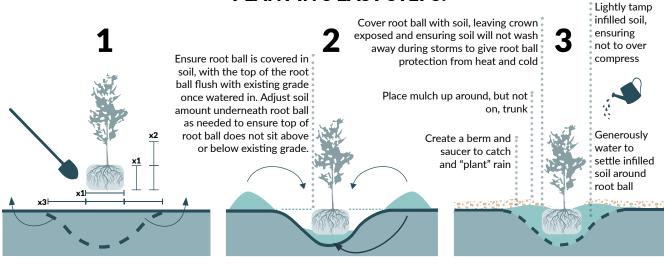
- DO completely remove lawn and other invasive species before installing Climate Appropriate Planting. Maintain weeding when invasive species re-sprout.

 Mulching can help prevent weeds, too!
- DO consider microclimates: Observe your site. Which areas get sun or shade? Where are steep slopes or wetter drainages? What are the soil conditions? Test your soils.
- DO plant native and flowering pollinator plant species: many native and flowering plants provide critical pollinator habitat as food and shelter.

DO NOT

- DO NOT use potable water to irrigate underutilized lawn or high water demand plants; replace with Climate Appropriate Plants or reuse rainwater and greywater.
- DO NOT use pesticides and herbicides! These harm pollinator species.
- DO NOT remove leaves. Keep leaves on the ground and postpone pruning and cutting back. Instead of removing leaves in autumn and through winter, leave them behind to build soil and for pollinating insects to use for their eggs and pupae.

PLANT IN 3 EASY STEPS!



Dig a square hole 3x as wide as the root ball (width 2x for perennials), and 2x the depth of the root ball

Put loosened soil in the bottom of the hole, place plant inside and bury

Place a mulch layer over the plant (for more see *Building Soils*)

ADDITIONAL RESOURCES

Land Resilience Partnership
Daily Acts

California Native Plant Society

www.landresili
www.dailyacts
www.cnps.org

www.landresiliencepartnership.org www.dailyacts.org www.cnps.org







DROUGHT TOLERANT SPECIES

all species low water usage

WATER NEEDS



low



medium

SOIL DRAINAGE

- **July** fast
 - **↓** slow
- **₩** adaptable

POLLINATOR

- **butterfly / moth**
- w bird
- bee.

SUN/SHADE

- full sun
- partial sun / shade
- full shade

OTHER CONSIDERATIONS



- erosion control
- allelopathic: consult Calscape for context and companion plants

TREES



Quercus agrifolia Coast Live Oak A

SMALL TREES



Cercis Occidentalis Western Redbud

SHRUBS



Trichostema lanatum **Woolly Blue Curls**

PERENNIALS



Salvia spathacea **Hummingbird Sage**



Festuca californica California Fescue



Quercus lobata Valley oak A



Arctostaphylos glauca **Big Berry Manzanita**



Diplacus aurantiacus **Bush Monkeyflower**



Achillea mellifolium **Common Yarrow**



Purple Needle Grass



Quercus wislizeni Interior Live Oak A



Heteromeles arbutifolia **Toyon**



Salvia apiana White Sage



Penstemon heterophyllus 'Margarita BOP' Margarita Bop Penstemon









DROUGHT and CLAY SOIL TOLERANT SPECIES all species low water usage and can be planted in clay soils

WATER NEEDS



low



medium

SOIL DRAINAGE

July fast

↓ slow

SHRUBS

w adaptable

POLLINATOR

butterfly / moth

SHRUBS

w bird

bee bee

SUN/SHADE

full sun

partial sun / shade

full shade

OTHER CONSIDERATIONS



erosion control

SMALL TREES



Arctostaphylos manzanita Whiteleaf manzanita



Rosa californica



California Wild Rose



Corethrogyne filaginifolia California Aster







PERENNIALS /

Achillea mellifolium **Common Yarrow**



Muhlenbergia rigens **Deergrass**



Cercis Occidentalis Western Redbud



Artemisia californica California Sagebrush



Eriogonum grande var. rubescens **Red-flowered Buckwheat**



Eschscholzia californica California Poppy



Arctostaphylos glandulosa Eastwood's manzanita



Heteromeles arbutifolia **Tovon**



Garrya elliptica Coast Silktassel







WATER NEEDS





medium

SOIL DRAINAGE

W fast

POLLINATOR-FRIENDLY SPECIES

- **↓** slow
- **₩** adaptable

POLLINATOR

- **butterfly / moth**
- **bird**
- bee.

SUN/SHADE

- full sun
- partial sun / shade
- full shade

OTHER CONSIDERATIONS



erosion control

TREES



Aesculus californica California Buckeve

SHRUBS



Arctostaphylus ssp. Manzanita

SHRUBS



Carpenteria californica **Bush Anemone**

PERENNIALS



Achillea millefolium **Yarrow**

GROUNDCOVERS



Arctostaphylus uva-ursi **Bearberry**



Cersis occidentalis Western Redbud



Ceanothus ssp. California Lilac



Fremontodendron californicum California Flannelbush



Asclepias fascicularis Narrow Leaf Milkweed



Ceanothus griseus horizontalis **Carmel Creeper**



Salix lasiolepis Arroyo Willow



Heteromeles arbutifolia Toyon



Rhamnus californica Coffeeberry



Eriogonum fasciculatum California Buckwheat









medium

WATER NEEDS

SOIL DRAINAGE

Wfast

POLLINATOR-FRIENDLY SPECIES

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POLLINATOR

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- bird bird
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OTHER CONSIDERATIONS



erosion control

TREES



Prunus ilicifolia **Hollyleaf Cherry**

SHRUBS



Sambucus nigra **Black Elderberry**

SHRUBS



Diplacus/Mimulus longiflorus Sticky Monkeyflower

PERENNIALS

Salvia spathacea **Hummingbird Sage**



GROUNDCOVERS

Eschscholzia californica California Poppy



Quercus agrifolia **Coast Live Oak**



Epilobium canum California Fuschia



Ceanothus lemmonii Lemmon's Ceanothus



Monardella villosa **Covote Mint**



Salvia "Bee's Bliss" **Creeping Sage**



Quercus lobata Valley Oak



Lupinus albifrons **Silver Lupine**



Rosa californica California Wild Rose



Nemophila menziesii **Baby Blue Eyes**



Daily Acts





RAIN GARDEN PLANTS



SOIL DRAINAGE

- **W**fast
 - **↓** slow
- **₩** adaptable

POLLINATOR

- **butterfly / moth**
- w bird
- bee bee

SUN/SHADE

- full sun
- partial sun / shade
- O full shade

OTHER CONSIDERATIONS

- erosion control
- edible

TREES



Aesculus californica California Buckeye



Prunus ilicifolia Hollyleaf Cherry



Quercus agrifolia
Coast Live Oak

SHRUBS



Carpinteria californica Bush Anemone



Cercis occidentalis Western Redbud



Dendromecon rigida **Bush Poppy**

SHRUBS



Heteromeles arbutifolia
Toyon



Rhamnus californica
Coffeeberry



Romneya coulteri Matilija Poppy

SHRUBS



Ceanothus spp.
California Lilac



Diplacus/Mimulus longiflorus
Sticky Monkeyflower



Sambucus nigra Black Elderberry

SHRUBS



Ribes aureum Golden Currant

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CLIMATE APPROPRIATE PLANTS

RAIN GARDEN PLANTS









SOIL DRAINAGE

Wfast

↓ slow

₩ adaptable

POLLINATOR

butterfly / moth

w bird

bee bee

SUN/SHADE

full sun

partial sun / shade

full shade

OTHER CONSIDERATIONS

erosion control



edible

SHRUBS



Rosa californica
California Wild Rose



Rubus ursinus
California Blackberry



Salvia apiana White Sage

SHRUBS



Trichostema lanatum Wooly Blue Curls

PERRENNIALS



Achillea millefolium Yarrow



Eschscholzia californica
California Poppy



Solidago velutina ssp. californica California Goldenrod

PERRENNIALS



Iris douglasiana **Douglas Iris**



Monardella villosa Coyote Mint



Calamagrostis foliosa Mendocino Reed Grass



Festuca glauca
Blue Fescue



Leymus condensatus
Canyon Prince Wild Rye

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CLIMATE APPROPRIATE PLANTS

RAIN GARDEN PLANTS A A A









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OTHER CONSIDERATIONS

erosion control

allelopathic: consult <u>Calscape</u> for context and companion plants

TREES**



Juglans californica
California Black Walnut



Platanus racemosa **Sycamore**



Salix laevigata Red Willow

PERRENIALS



Fragaria chiloensis
Beach Strawberry



Heuchera maxima
Coral Bells

GRASSES



Carex praegracilis
California Field Sedge



Juncus textilis
Basket Rush



Sisyrinchium bellum Blue Eyed Grass



Juncus patens California Gray Rush

^{*}Plants may require supplemental irrigation









GREYWATER PLANTS

Plants that can be irrigated by greywater systems

SUN/SHADE

- full sun
- partial sun / shade
- full shade

OTHER CONSIDERATIONS



edible



native

TREES



Acer macrophyllum
Big Leaf Maple

SHRUBS



Acca sellowiana
Pineapple Guava

PERENNIALS



Achillea mellifolium Yarrow

INIALS GRASSES



Calamagrostis foliosa Mendocino Reed Grass

VINES



Actinidia argata Hardy Kiwi



Citrus spp. Citrus tree



Diospyros kaki Persimmon



Fragaria chiloensis Beach Strawberry



Carex barbare
Basket Sedge



Humulus lupulus Hops Vine



Ficus carica Common fig



Punica granatum
Pomegranate



Cynara scolymus **Artichoke**



Carex praegracilis
California Field Sege



Lathyrus odoratus Sweet Pea Vine









GREYWATER PLANTS

Plants that can be irrigated by greywater systems

SUN/SHADE

- full sun
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OTHER CONSIDERATIONS



edible



native

TREES



Platanus racemos **Sycamore**

SHRUBS



Rubus ursinus California Blackberry

PERRENIALS



Iris douglasiana **Douglas Iris**

GRASSES



Juncus textilis **Basket Rush**

VINES



Selenicereus undatus **Dragon Fruit Vine**



Morus alba x rubra **Pakistan Mulberry**



Rosa californica California Wild Rose



Heuchera spp. Coral Bells



Juncus patens California Gray Rush



Physalis ixocarpa **Tamatillo Vine**



Junglan californica California Black Walnut



Ribes aureum **Golden Currant**



Dicentra formosa **Pacific Bleeding Heart**



Festuca glauca Blue Fescue



Passiflora edulis **Passionfuit Vine**