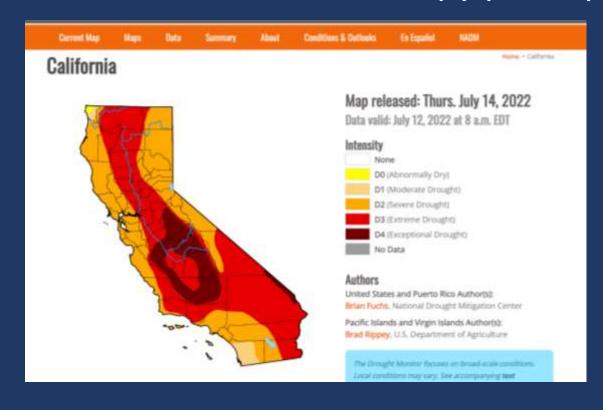


### We Have a 'Moisture' and a 'Tree Drought'

While there are ~ 9 M street trees in California, their density has decreased 30% since 1988. CA cities have the lowest tree canopy per capita (108 yd²) in the U.S.





#### **Statistics**

Statistics type: Cumulative Percent Area

Export table: SX XLS







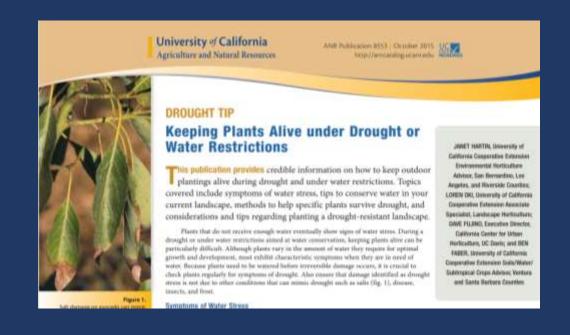
			Moderate		Severe	Extreme	Exceptiona	al
Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2022-07-12	0.00	100.00	99.80	97.48	59.81	12.74	370
Last Week	2022-07-05	0.00	100.00	99.80	97.48	59.81	11.59	369
3 Months Ago	2022-04-12	0.00	100.00	100.00	95.75	46.87	0.00	343
Start of Calendar Year	2021-12-28	0.00	100.00	100.00	86.28	32.93	0.84	320
Start of Water Year	2021-09-28	0.00	100.00	100.00	93.93	87.88	45.66	427
One Year Ago	2021-07-13	0.00	100.00	100.00	94.75	85.73	33.32	414

# University of California Drought-Related Resources

Free Download Publications: https://anrcatalog.ucanr.edu

- Sustainable Landscaping in California
- Keeping Plants Alive Under Drought and Water Restrictions
- Lawn Watering Guide for California
- Use of Graywater in CA Landscapes

CA Institute for Water Resources: http://ciwr.ucanr.edu/ (blogs, climate-smart ag, podcasts, etc.)



Other Tree Care Information: Treesaregood.org (Int'l Society of Arboriculture)

#### Janet's Blogs

Trees Come First During Drought:

https://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=46513

Be Part of the Solution: Plant Drought, Heat, and Pest

Resistant Trees: http://ipm.ucanr.edu/PDF/PUBS/greenbulletin.2017.winter.pdf?src=blog26490

The Importance of Trees to Cool Urban Heat Islands: https://ucanr.edu/b/~j5D

Why Planting Shade Trees Reduces the Temperature of Urban Heat

**Islands:** https://www.ocregister.com/2019/06/11/why-planting-shade-trees-helps-reduce-the-temperature-of-urban-heat-islands/



### Trees and Other Living Plants Cool the Environment Through Transpiration.



# We Have Intense Urban Heat Islands (UHIs)

Surface temperatures of unshaded asphalt can be >60°F hotter than shaded asphalt in summer in inland cities and >40°F hotter in coastal cities





### Temperatures of Unshaded Black Asphalt, Artificial Turf, Concrete (lighter than it looks here), and Living Turf

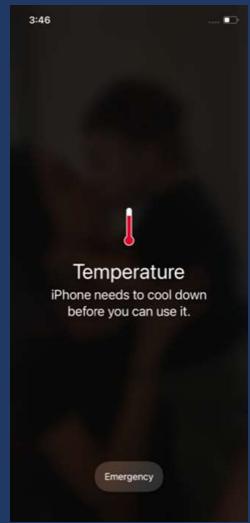




### Dyed Black Chunky Rock Mulch is Also Extremely Hot



Pet paws can burn in 60 seconds on a 140°F surface (air temperature ~90°F) and 30 seconds on a 160-degree surface.



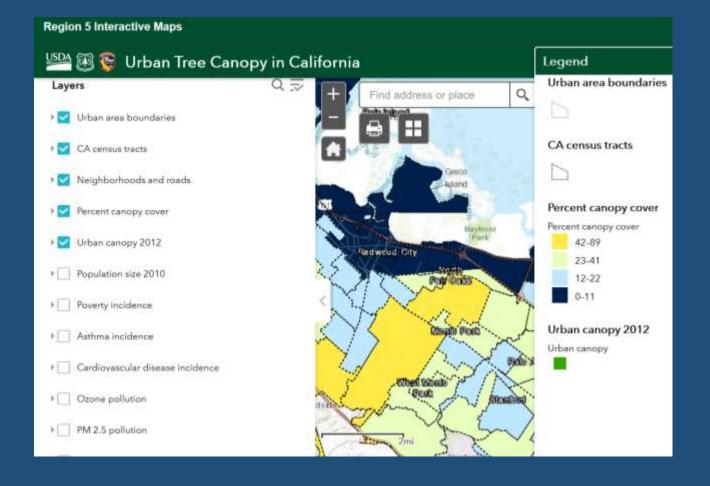


### Higher Tree Canopies in Wealthier Neighborhoods

(https://www.fs.usda.gov/Internet/FSE\_DOCUMENTS/fseprd645759.html)



Tract number	6081611400
County	San Mateo
Zip code	94027
City	
Population 2010	4,237
Percentile poverty incidence	2
Percentile asthma incidence	4
Percentile cardiovascular disease incidence	1
Percentile ozone pollution	11
Percentile PM 2.5 pollution	41
Percentile water body impairment	0

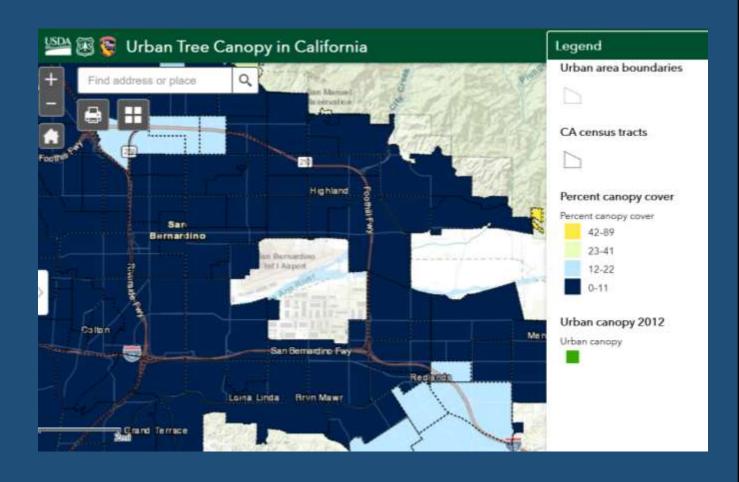


#### Lower Tree Canopies in Impoverished Neighborhoods

(https://www.fs.usda.gov/Internet/FSE\_DOCUMENTS/fseprd645759.html)



Tract number	6071006401
County	San Bernardino
Zip code	92410
City	
Population 2010	3,343
Percentile poverty incidence	99
Percentile asthma incidence	84
Percentile cardiovascular disease incidence	74
Percentile ozone pollution	98
Percentile PM 2.5 pollution	82
Percentile water body impairment	0



#### Other Benefits of Urban Trees

- Save energy/reduce related costs
- Clean the air (remove dust, absorb pollutants) and release oxygen
- Absorb carbon dioxide
- Buffer Noise
- Provide habitat for animals and microorganisms



- Provide windbreaks
- Capture runoff/stormwater flooding
- Beautify neighborhoods/increase property value/reduce crime
- Improve mental and emotional health
- Reduce glare and reflection



The length of time it takes to replant trees and regain the lost benefits of poorly selected and maintained trees impacts future generations, and it's a high price to pay.





### Sadly...

The vast majority of plant disorders are due to abiotic (non-living) conditions that are completely preventable.





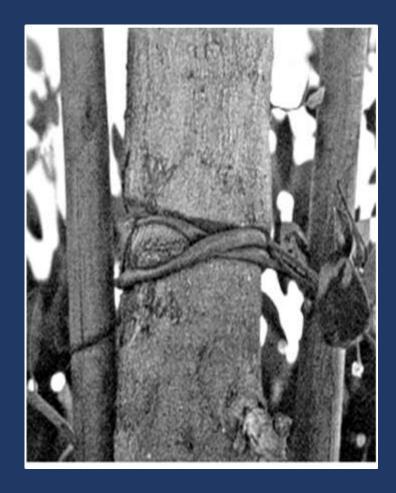




### Improper Tree Selection, Location and Care Reduce Average Lifespan 50-70%





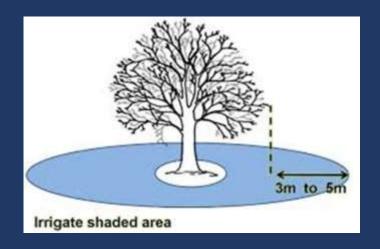


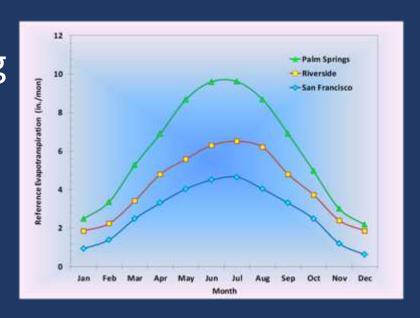
## How to Keep Trees Alive During Drought and Water Restrictions



#### **Use Water Wisely**

- Newly planted trees need frequent watering (the first 3-6 months)
- Trees need most water (>80%) in spring and summer
- Trees should be irrigated in early morning from mid-dripline to beyond the dripline





Water Trees
Separately
from Turf
When
Possible







# Water Established/Mature Trees Less Often and Longer than Groundcovers/Lawns



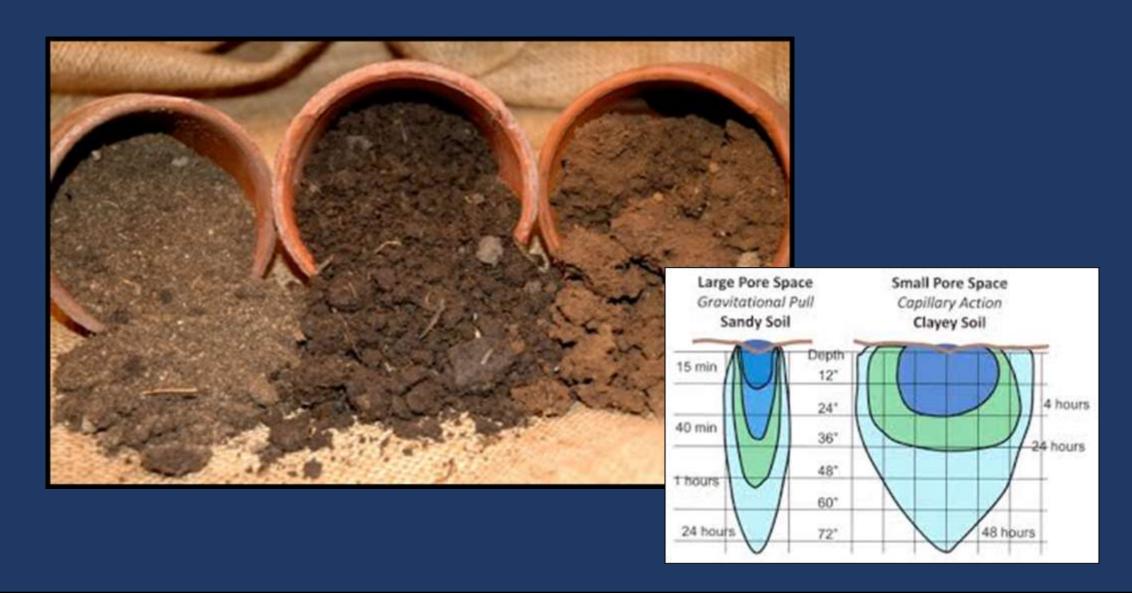
Watering Established Trees Just a Few Times (Deeply and Infrequently) With a Garden or Soaker Hose Can Keep Them

Alive During Drought





### Water Based on Soil Type/Water Infiltration Rate



### Mulch Trees to Keep Water in And Weeds Out



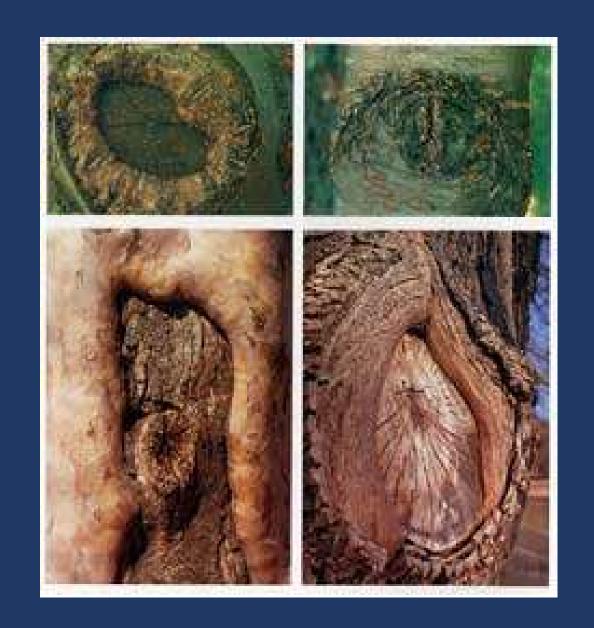
# If a Lawn is Removed, Ensure that Trees Dependent on Water From the Lawn Sprinkler System Are Regularly Irrigated





During Drought,
Perform Only
Necessary Pruning

Proper (top) vs Improper (bottom) Pruning



#### **Avoid Fertilizing Trees During Drought**

Nitrogen increases water requirements

Established trees do not require annual fertilization

 If you also have fruit trees, you may have to forego a crop for a season or two to save the tree by not fertilizing. It's a good trade-off!

## Remove Girdling Staking Ties That Cut Into The Vascular System of the Tree



### University of California

**Agriculture and Natural Resources** 



### Climate-ready Landscape Trees Study

UC: Alison Berry, Jim Downer, Janet Hartin, Darren Haver USFS: Greg McPherson, Natalie van Doorn, Erika Teach

 Measuring performance of select landscape tree species based on heat and drought resistance, CO₂ sequestration, soil tolerance, pest resistance, shade, biodiversity, rareness, longevity, etc.

#### **CLIMATE READY TREES TRIAL SPECIES**

INLAND AND COASTAL SOUTHERN CALIFORNIA



Inland & Coastal Native to the CA Channel Islands and Guadalupe Island.



CEDARWOOD

Coastal

Native to Central and
South America



GHOST GUM Inland & Coastal Native to Australia



LIVE OAK Inland & Coastal



RED PUSH PISTACHE Inland & Coastal Hybrid of trees native to the Middle East and Asia.



ROSEWOOD Inland & Coastal Native to Northern India



Inland & Coastal
Native to the
Southwest



MAVERICK MESQUITE Inland & Coastal Native to the Southwest



TECATE CYPRESS Inland & Coastal Native to Southern



PALO VERDE Inland Empire Hybrid of natives to the Southwest.



Inland & Coastal
Native to Western
Australia



Native to the CA Channel Islands.



Inland & Coastal Native to Sonora Mexico





## UC Riverside "Climate Ready Trees" Plots





# Evaluated Climate Trends & Exposures, Underplanted Species, and What Trees are Doing Well in Hotter Climate Zones

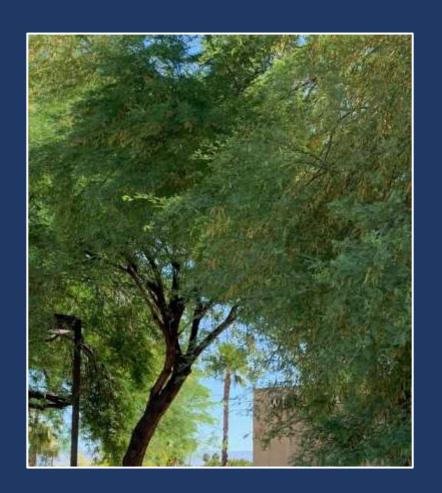


#### CalAdapt Climate Model, Next 75 Years

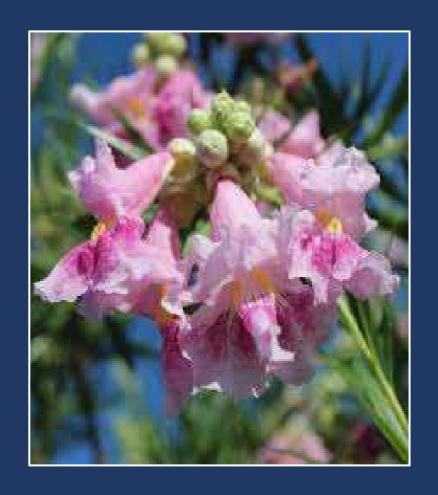


**Precipitation & Wind:** fewer storms but more precipitation during each event, stronger winds

### **Examples of Strong Performers to Date**







Use Sunset Zones (there are 20) Instead of USDA Zones (only 6) When Starting Your Search for Suitable Tree Species



#### **Useful Websites With Searchable Plant Selection Engines**

- Urban Forest Ecosystem/Cal Poly: https://selectree.calpoly.edu
  - WUCOLS IV (Water Use Classification of Landscape Species):
     http://ucanr.edu/sites/WUCOLS
    - California Native Plant Society: http://www.calscape.org

# 'Maverick' Mesquite (Prosopis glandulosa)







- Native to Southwestern United States
- Thornless
- Drought/heat/pest tolerant
- Deciduous
- Grows to 35' x 35'
- Small yellow flowers in spring/summer
- Large pods



#### General Notes

Branches droop but resist breakage. This cultivar is known for being thornless and having foliage visually similar to the Peruvian Pepper Tree (*Schinus molle*).

Has fragrant Flower.

Native to Southwestern United States.

Family: Fabaceae

#### **Additional Common Names**

TEXAS MESQUITE, MAVERICK HONEY MESQUITE

#### **Tree Characteristics**

Spreading and requires ample growing space.

Rounded Shape.

Has Deciduous foliage.

Height: 25 - 35 feet.

Width: 25 - 35 feet.

Growth Rate: 12 to 36 Inches per Year.

Leaves Bipinnately Compound, Green, No Change, Deciduous.

Flowers Inconspicuous. Fragrant Yellow. Flowers in Spring or Summer. Has perfect flowers (male and female parts in each flower).

Brown Legume, Very Large (Over 3.00 inches), fruiting in Spring, Summer or Fall Edible and Wildlife use it.

Bark Grey, Smooth.

Shading Capacity Rated as Low to Moderately Low in Leaf.

Shading Capacity Rated as Low out of Leaf.

#### **Tree Site Conditions & Constraints**

Sunset Zones 10 - 13 and 18 - 24.

USDA Hardiness Zones 6 - 10.

Exposure Full Sun.

Wet to Dry Soil.

Drought tolerant.

Clay, Loam or Sand Texture.

Acidic to Alkaline Soil pH.

#### Health, Safety & Environmental Concerns

Root Damage Potential Rated as Low.

Attracts Birds and Mammals.

Wildlife use Fruit.

#### Special Uses & Values

Specimen or Shade Tree.

Bonsai.

# Pistacia 'Red Push' (A hybrid between P. atlántica x P. integerrima)



- Developed in Arizona
- Deciduous
- Grows quickly to 20' tall
- Drought/heat/cold/pest tolerant
- Reddish leaves in fall
- Inconspicuous flowers
- Fruitless

#### **General Notes**

A hybrid between Pistacia atlantica × Pistacia integerrima.

Hybrid developed in Arizona. Drought and cold tolerant. New leaves have distinctive red color when emerging.

Trees may be referred to as male or female.

Family: Anacardiaceae

#### **Tree Characteristics**

Erect or Spreading with a High Canopy.

Rounded or Spreading Shape.

Has Deciduous foliage.

Height: 25 - 40 feet.

Width: 20 - 40 feet.

Growth Rate: 12 to 24 Inches per Year.

Longevity Greater than 150 years.

Leaves Pinnately Compound Odd with Lanceolate Leaflets, Green, Red or Orange, Deciduous.

Flowers Inconspicuous. Flowers in Spring. Has either male or female reproductive parts (dioecious). Trees may be sold as male or female.

Fruitless.

Bark Dark Brown, Light Gray or Light Green, Furrowed or Scaly.

Shading Capacity Rated as Dense in Leaf.

Shading Capacity Rated as Moderate out of Leaf.

Cite this tree:

SelecTree. "Pistacia × 'Red Push' Tree Record." 1995-2021. Apr 21, 2021. <a href="https://selectree.calpoly.edu/tree-detail/pistacia-\*-red-push">https://selectree.calpoly.edu/tree-detail/pistacia-\*-red-push</a> >

#### **Tree Site Conditions & Constraints**

Sunset Zones 8 - 24.

USDA Hardiness Zones 7 - 9.

Exposure Full Sun.

Moist to Dry Soil.

Drought tolerant.

Clay, Loam or Sand Texture.

Slightly Acidic to Highly Alkaline Soil pH.

Seaside Tolerance is Not Suited.

#### **Pests & Disease Information**

Resistant to Verticillium.

#### Health, Safety & Environmental Concerns

Branch Strength Rated as Strong.

Root Damage Potential Rated as Low.

#### Special Uses & Values

Street Tree, Park Tree, Screen.

This tree is not part of the SelecTree Nursery Connection. If you would like to see this tree listed, or know of a nursery that sells it.

Desert Willow 'Bubba' (*Chilopsis linearis*)







#### **General Notes**



Desert Willow is an unusual small flowering desert accent tree, especially useful in riparian or native garden settings. It is usually multi-trunked or low-branching. It blooms best in full sun, becoming taller and less full in half shade. Desert Willow bark is smooth when young but develops rough fissures as it ages. White lenticels are noticeable on young bark or new growth. It is very drought tolerant, with only occasional deep watering to the roots. It is susceptible to root rot if drainage is poor.

Has fragrant Flower.

Native to California, Texas and Mexico.

Family: Bignoniaceae

#### **Additional Common Names**

BUBBA DESERT WILLOW, DESERT CATALPA BUBBA

#### **Tree Characteristics**

Spreading Low or High Canopy.

Rounded or Spreading Shape.

Has Deciduous foliage.

Height: 15 - 20 feet.

Width: 10 - 15 feet.

Growth Rate: 24 to 36 Inches per Year.

Longevity 40 to 150 years.

Leaves Linear, Bluish Green or Silver or Gray Green, Golden or Yellow or Orange, Deciduous.

#### **Tree Site Conditions & Constraints**

Sunset Zones 7 - 14 and 18 - 23.

USDA Hardiness Zones 8 - 9.

Exposure Full Sun to Partial Shade.

Moist to Dry Soil.

Drought tolerant.

Loam or Sand Texture.

Neutral to Highly Alkaline Soil pH.

Salinity Tolerance is Good Inland.

Seaside Tolerance is Not Suited.

#### **Pests & Disease Information**

Resistant to Texas Root Rot. Susceptible to Root Rot.

#### Health, Safety & Environmental Concerns

Branch Strength Rated as Medium.

Root Damage Potential Rated as Low.

Allergy Health Hazard.

Biogenic Emissions considered Moderate.

Desirable Wildlife Plant.

Attracts Birds.

Wildlife use Fruit.

#### Special Uses & Values

Screen.

# Indian Rosewood (*Dalbergia sissoo*)

Left: 'Bubba' Desert
Willow
Right (Indian Rosewood)



# **GENERAL INFO**

Useful for erosion control as it has a wide spreading root system. It thrives in lawn settings, as well as hot, reflected heat. A drought tolerant tree.

Native range: Indian Subcontinent

Horticultural use: Shade Tree or Park Tree or Street Tree

# TREE CHARACTERISTICS

Tree shape: Rounded or Vase

Foliage type: Deciduous - Partly Deciduous

Maximum tree height: 60 feet

Canopy width: 30-40 feet

Growth rate: ~24-36 in/year

Leaf arrangement and form: Alternate, Pinnately Compound

Leaf/leaflet shape: Oval

Leaf color: Green

Flowers: Inconspicuous, Fragrant

Flower color: White or Yellow.

Flowering time: Spring

Fruit: Medium to Large Brown Legume

Fruiting time: Fall or Summer

Bark: Dark Brown or Light Green, Furrowed, Rough

Litter: Dry Fruit, Flowers

# **SITE CONDITIONS**

Planting area: Greater than 10'

SelecTree Water Use Rating: Very low

Sunset zones: 13, 19, 21 - 24

USDA zones: 9, 10, 11

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand or Clay

Soil pH: Acidic to Acidic

Salt spray tolerance: High

# **CONSIDERATIONS**

Branch strength: Medium Weak

Root damage potential: Moderate

Potential health issues: No known hazards

Wildlife interactions: Tree is deer resistant

Powerline friendly: No

# Ghost Gum (Corymbia papuana)

## **GHOST GUM**

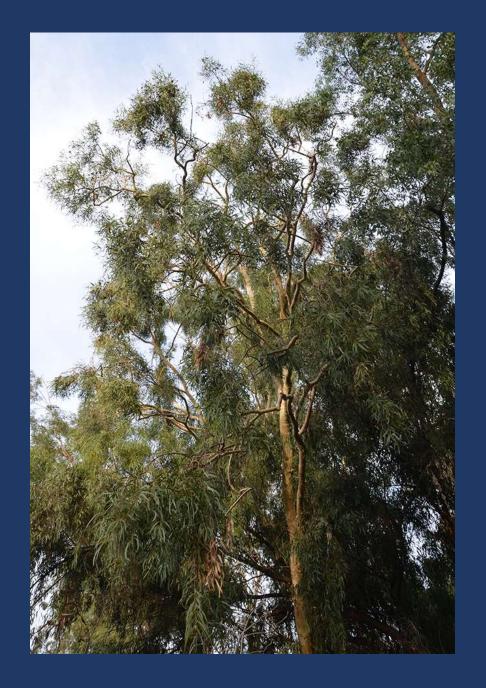
Corymbia aparrerinja

FAMILY Myrtaceae See all *Corymbia* 

#### **SYNONYMS**

Eucalyptus aparrerinja Eucalyptus papuana





## **GENERAL INFO**

Hardiness estimate: 32 degrees F. Blooms in summer. Drought tolerant.

Native range: Northern Australia

# TREE CHARACTERISTICS

Tree shape: Rounded Foliage type: Evergreen

Maximum tree height: 50 feet Canopy width: 20-35 feet Growth rate: ~36-127 in/year

Leaf arrangement and form: Alternate, Simple

Leaf/leaflet shape: Spear-shaped

Leaf color: Bluish Green or Silver or Gray Green

Flowers: Fragrant Flower color: White.

Flower type: Has male and female reproductive parts in each flower

(perfect)

Flowering time: Summer

Fruit: Brown or Mostly Green Capsule

Fruiting time: Fall

Bark: Striking Cream, Smooth

Litter: Dry Fruit

# **SITE CONDITIONS**

Planting area: 5' to 10'

SelecTree Water Use Rating: Very low

Sunset zones: 5 - 6, 8 - 24

USDA zones: 8, 9, 10

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand

Soil pH: Slightly Acidic to Very Alkaline

# **CONSIDERATIONS**

Root damage potential: Moderate

Potential health issues: No known hazards

Wildlife interactions: Tree is deer resistant

Disease and pest susceptibility: Armillaria, Root Rot and Beetle Borers

Disease and pest resistance: Texas Root Rot, Verticillium

Powerline friendly: No

# Palo Blanco (Acacia Willardiana)



# **PALO BLANCO**

Mariosousa willardiana

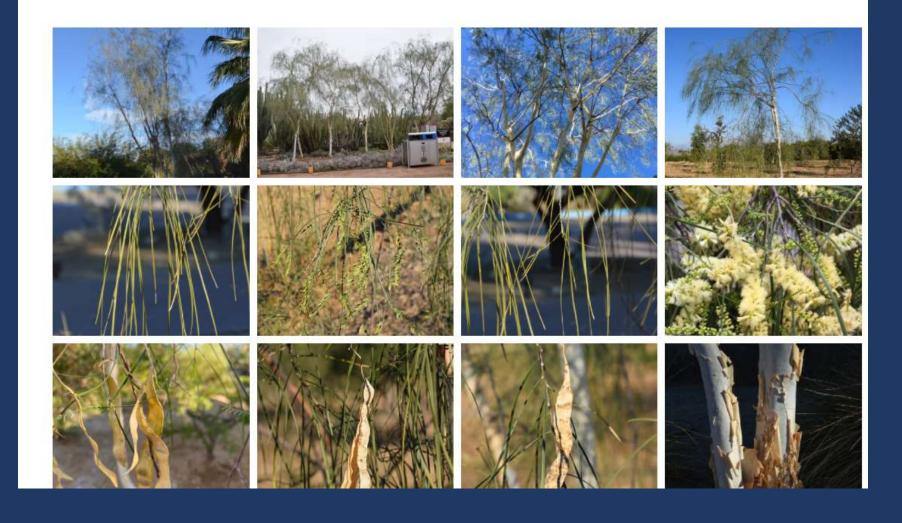
FAMILY Fabaceae See all *Mariosousa* 

#### SYNONYMS

Acacia willardiana

# ADDITIONAL COMMON NAMES

WILLARD ACACIA



## **GENERAL INFO**

An open and whispy small tree with beatuful peeling cream to white bark. Perfect for a dry garden. Normally evergreen, this tree may drop its leaves in a drought or cold spell. The lengthy needle-like leaf stalks remain and are prominent after the small leaflets drop.

Native range: Mexico, Sonoran Desert

Horticultural use: Ornamental

## TREE CHARACTERISTICS

Tree shape:

Foliage type: Partly Deciduous - Evergreen

Maximum tree height: 20 feet Canopy width: 12-15 feet Growth rate: ~12-24 in/year

Leaf arrangement and form: Alternate, Simple

Leaf/leaflet shape: Linear

Leaf color: Bluish Green or Silver or Gray Green

Flowers: Showy, Fragrant Flower color: Yellow.

Flower type: Has male and female reproductive parts in each flower

(perfect)

Flowering time: Spring or Summer

Fruit: Brown Legume

Fruiting time: Fall, Spring or Summer

Bark: Cream or White, Exfoliating, Smooth

Litter: Dry Fruit

# **SITE CONDITIONS**

Planting area: 2' to 5'

Water use: Very low

Sunset zones: 12 - 24

USDA zones: 9, 10, 11

Sun exposure: Full Sun to Full Sun

Soil texture: Loam or Sand or Clay

Soil pH: Slightly Acidic to Very Alkaline

# **CONSIDERATIONS**

Branch strength: Weak

Potential health issues: Allergy

Wildlife interactions: Tree is deer resistant and attracts bees, birds

Disease and pest susceptibility: null

Powerline friendly: Yes

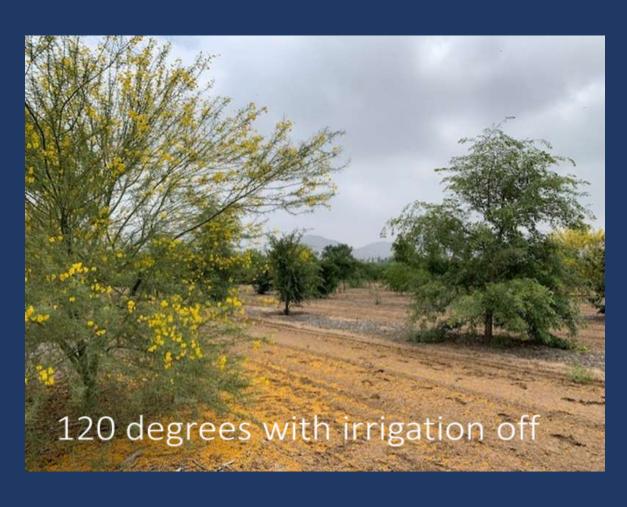
# 'Desert Museum' Palo Verde

(3-way cross: P. aculeata, P. microphyllum, and P. florida)





# 'Desert Museum' Palo Verde



- Drought/heat tolerant
- Native to SW USA
- Deciduous
- Thornless
- Grows quickly to 15' x
  25'
- Prolific yellow flowers in spring/summer
- Prefers no organic mulch

#### **General Notes**



Ttility friendly tree.

This hybrid is a three-way cross with P. aculeata, P. microphyllum, and P. floridum combining the best characteristics of all three. Developed by Mark Dimmitt at the Arizona Sonora Desert Museum, this tree has rigorous growth and a sturdy, upright branching habit. This tree provides a brilliant and rather conspicuous bloom to announce the arrival of spring.

Has fragrant Flower.

Native to A hybrid. Parents are native of the Sonoran and Chihuahan Deserts of the southwestern United States.

Family: Fabaceae

Previously listed in the Caesalpiniaceae family.

#### Tree Characteristics

Spreading or Weeping with a Low Canopy.

Rounded, Umbrella or Vase Shape.

Has Deciduous foliage.

Height: 15 - 20 feet.

Width: 20 - 25 feet.

#### Tree Site Conditions & Constraints

Sunset Zones 8 - 14 and 18 - 20.

USDA Hardiness Zones 6 - 9.

Exposure Full Sun.

Moist to Dry Soil.

Drought tolerant.

Clay, Loam or Sand Texture.

Neutral to Highly Alkaline Soil pH.

Salinity Tolerance is Good to Moderate Inland.

Seaside Tolerance is Good in Mild Zone.

#### Pests & Disease Information

Resistant to Texas Root Rot. Susceptible to Invasive Shot Hole Borer, Eriophyid Mite.

#### Health, Safety & Environmental Concerns

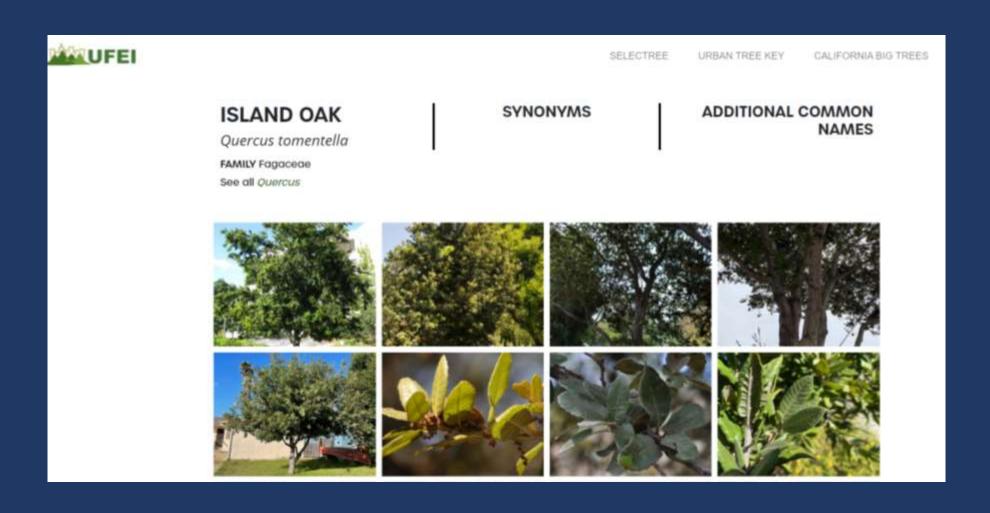
Branch Strength Rated as Medium.

Root Damage Potential Rated as Low.

None Known Health Hazard.

Biogenic Emissions considered Moderate

# Island Oak Quercus tomentella



#### **GENERAL INFO**

This evergreen Oak is a desirable landscape tree in southern California. Smooth gray bark when young becomes brown and blocky with age. Found natively on the Channel Islands. Prefers deep, moist soils but can tolerate a wide range of soil conditions. Slightly toothed, glossy green leaves are covered with tan hairs below.

Native range: California and Mexico

#### TREE CHARACTERISTICS

Tree shape: Rounded Foliage type: Evergreen

Maximum tree height: 50 feet Canopy width: 25-40 feet Growth rate: ~24 in/year

Leaf arrangement and form: Alternate, Simple

Leaf/leaflet shape: Ovate Leaf color: Dark Green

Flowers: Inconspicuous

Flower type: Has male and female reproductive parts in each flo

(perfect)

Bark: Dark Gray / Brown, Blocky, Smooth

#### **SITE CONDITIONS**

Planting area: Greater than 10'

SelecTree Water Use Rating: Low

Sunset zones: 7 - 9, 14 - 17, 19 - 24

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand or Clay

#### CONSIDERATIONS

Wildlife interactions: Tree is deer resistant and attracts birds, squirrels

Disease and pest susceptibility: Armillaria

Disease and pest resistance: Verticillium

Powerline friendly: No

# Catalina Cherry Prunus ilicifolia

# **CATALINA CHERRY**

Prunus ilicifolia subsp. lyonii

**FAMILY** Rosaceae

See all Prunus

#### SYNONYMS

Prunus lyonii Laurocerasus lyonii

# ADDITIONAL COMMON NAMES



# SITE CONDITIONS

Planting area: 5' to 10'

SelecTree Water Use Rating: Low

Sunset zones: 5 - 9, 12 - 24

USDA zones: 9, 10

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand or Clay

Soil pH: Very Acidic to Slightly Alkaline

Salt spray tolerance: High

# **CONSIDERATIONS**

Branch strength: Medium

Root damage potential: Low

Potential health issues: No known hazards

Biogenic emissions: Low

Wildlife interactions: Attacts birds

Disease and pest susceptibility: Root Rot, Rust, Verticillium, Virus

Powerline friendly: No

# **CITE THIS TREE**

SelecTree. UFEI. "Prunus ilicifolia subsp. Iyonii Tree Record." 1995-2022. Cal Poly State University, San Luis Obispo. Accessed on Jul 20, 2022. <a href="https://selectree.calpoly.edu/tree-detail/1167">https://selectree.calpoly.edu/tree-detail/1167</a> >

# Useful Websites With Searchable Plant Selection Engines

- Urban Forest Ecosystem/Cal Poly: https://selectree.calpoly.edu
- WUCOLS IV (Water Use Classification of Landscape Species): http://ucanr.edu/sites/WUCOLS
- California Native Plant Society: http://www.calscape.org

# Urban Forest Ecosystem/Cal Poly

https://selectree.calpoly.edu

Screenshots of its use are covered in the next few slides





# Urban Forest Ecosystems Institute -

Skip to content

## Search by Name

Search Trees by Characteristics

Search Help

About SelecTree

Right Tree Right Place

Utility Precautions

Browse securely

# SelecTree: Right Tree Right Place

Trees & shrubs are an important part of the environment and the communities that we live in. Use the health and safety links below to help avoid future conflicts with your valued plantings.

- Utility Precautions
- Fire Safety
- Root Damage
- Invasive Plants

- **■** Hazardous Trees
- Tree Maintenance
- Allergy & Toxicity
- Biogenic Emissions

# Utility Precautions

Planting or pruning trees near utility lines requires careful consideration. Look for the utility friendly icon in search results lists. See Utility Precautions for more information.



Quercus stellata

Branches droop but resist breakage...

Photo by C. Stubler, W. Mark and J. Reimer



# **Search Trees By Name**

Trees can be searched by their common or scientific name.

Enter a tree name...

Q





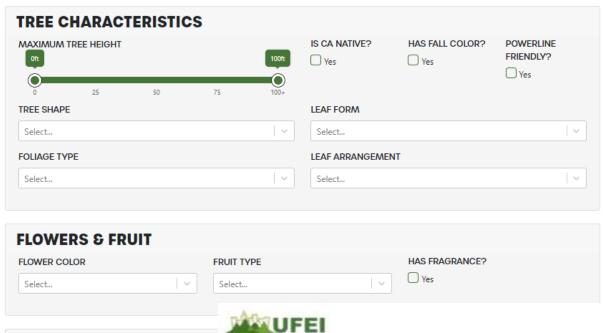






CAL POLY

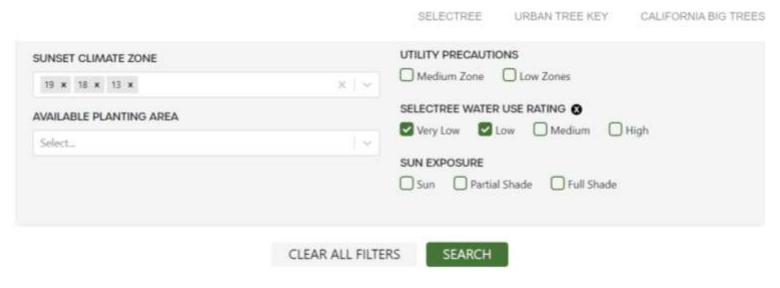
#### **SEARCH BY CHARACTERISTICS**



SEARCH TERM

TYPE IN A TERM TO SEARCH

This search is a "search trees by characteristics" rather than "by name" search. It is for a drought resistant tree in desert and valley Sunset zones in Riverside County.





SELECTREE

URBAN TREE KEY

CALIFORNIA BIG TREES

# SelecTree

## A TREE SELECTION GUIDE

Enter a tree name...





#### SEARCH PACIFIC ISLANDS

Click here to search trees in the Pacific Islands



#### SEARCH CHARACTERISTICS

Search by height, flower color, and more.



#### SEARCH HELP

Find more information to help with your search.

**312** TREES

REFINE FILTER

Scientific Name A-Z

30

50

100

results per page

















# **FEATHER BUSH**

Lysiloma watsonii

FAMILY Fabaceae See all *Lysiloma* 

#### **SYNONYMS**

Lysiloma thornberi Lysiloma microphylla var. thornberi

# ADDITIONAL COMMON NAMES

FERN-OF-THE-DESERT













## **GENERAL INFO**

Large spreading shrub with hard brittle wood. Has dense, feathery canopy. Handsome ornamental.

Native in the foothills of the Rincon Mountains of Arizona.

Native range: Arizona

Horticultural use: Screen

## TREE CHARACTERISTICS

Tree shape: Rounded or Vase

Foliage type: Partly Deciduous - Evergreen

Maximum tree height: 15 feet Canopy width: 12-15 feet Growth rate: ~24 in/year

Leaf arrangement and form: Alternate, Bipinnately

Compound

Leaf/leaflet shape: Oblong

Leaf color: Green

Flower color: White.

Flower type: Has male and female reproductive parts

in each flower (perfect) Flowering time: Spring

Fruit: Very Large Brown Legume

Fruiting time: Fall

Bark: Dark Gray or Light Gray, Scaly, Smooth

Litter: Dry Fruit







## **SITE CONDITIONS**

Planting area: 2' to 5'

SelecTree Water Use Rating: Low

Sunset zones: 12 - 24

USDA zones: 9, 10, 11

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand

Soil pH: Slightly Acidic to Very Alkaline

Salt spray tolerance: Moderate

### **CONSIDERATIONS**

Branch strength: Medium Weak

Root damage potential: Low

Potential health issues: No known hazards

Wildlife interactions: Tree is deer resistant and attracts birds

Disease and pest resistance: Texas Root Rot

Powerline friendly: Yes

## **CITE THIS TREE**

SelecTree. UFEI. "Lysiloma watsonii Tree Record." 1995-2022. Cal Poly State University, San Luis Obispo. Accessed on Jul 20, 2022. < https://selectree.calpoly.edu/tree-detail/834 >

Enter a tree name...





#### SEARCH PACIFIC ISLANDS

Click here to search trees in the Pacific



#### SEARCH CHARACTERISTICS

Search by height, flower color, and more.



#### SEARCH HELP

Find more information to help with your search.

## PINK DAWN CHITALPA

× Chitalpa tashkentensis 'Pink Dawn'

FAMILY Bignoniaceae

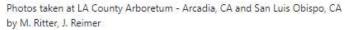
See all Chitalpa

#### SYNONYMS

# ADDITIONAL COMMON NAMES

CHITALPA PINK DAWN









### **GENERAL INFO**

Chitalpa is an intergeneric cross between Catalpa bignonioides and Chilopsis linearis. It is an unusual small flowering accent tree, especially useful in riparian or native garden settings, usually multitrunked or low-branching. It blooms best in full sun, when it receives moderate moisture. It becomes taller in half shade. Its grayish-white bark presents an interesting silhouette in winter with its bare branches. It generally remains below 25 in height.

Horticultural use: Screen

## TREE CHARACTERISTICS

Tree shape: Rounded or Vase Foliage type: Deciduous

Maximum tree height: 35 feet Growth rate: ~36 in/year

Leaf arrangement and form: Opposite, Simple

Leaf/leaflet shape: Spear-shaped

Leaf color: Bluish Green or Silver or Gray Green

Fall color: Yes

Flowers: Showy Flower color: Pink.

Flower type: Has male and female reproductive parts in each flower

(perfect)

Flowering time: Fall, Spring or Summer

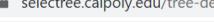
Fruit: Very Large Brown, Beige or Mostly Green Capsule

Fruiting time: Fall

Fruit value: Wildlife use it

Bark: Light Green, Scaly

Litter: Wet Fruit, Flowers



SELECTREE

**URBAN TREE KEY** 

CALIFORNIA BIG T

## **SITE CONDITIONS**

Planting area: 5' to 10'

SelecTree Water Use Rating: Low

Sunset zones: 3 - 24

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand

Soil pH: Slightly Acidic to Very Alkaline

Salt spray tolerance: Moderate

### **CONSIDERATIONS**

Branch strength: Medium Weak

Root damage potential: Low

Potential health issues: No known hazards

Wildlife interactions: Tree is deer resistant

Disease and pest susceptibility: Root Rot, Verticillium and Aphids

Powerline friendly: No

## **CITE THIS TREE**

SelecTree. UFEI. "&times Chitalpa tashkentensis 'Pink Dawn' Tree Record." 1995-2022. Cal Poly State University, San Luis Obispo. Accessed on Jul 20, 2022. < https://selectree.calpoly.edu/tree-detail/280 >

# **Chaste Tree** *Vitex agnus-castus*



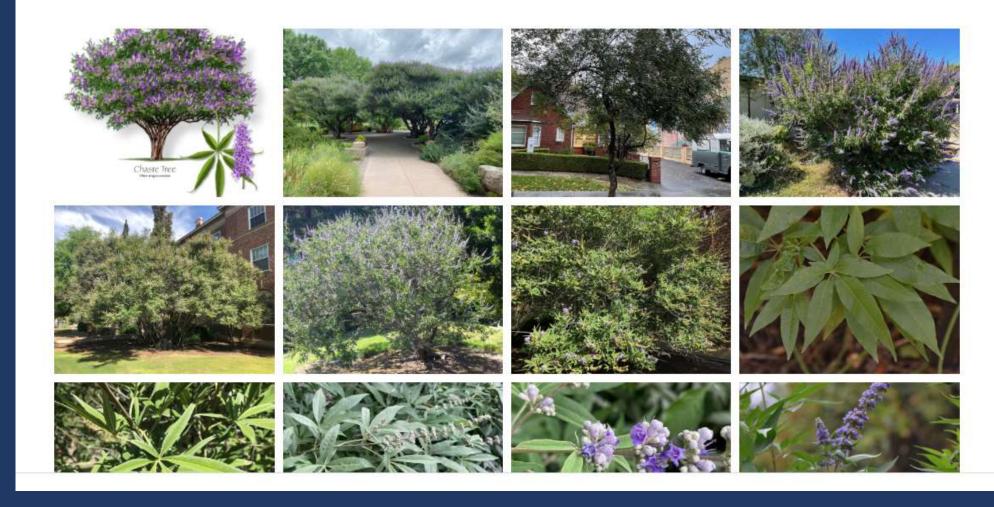
#### **CHASTE TREE**

SYNONYMS

## ADDITIONAL COMMON NAMES

Vitex agnus-castus

FAMILY Verbenaceae See all *Vitex* 



#### **GENERAL INFO**

Chaste Tree usually becomes a large shrub, or small tree if the trunks are trained and pruned. Its summer flowering is especially attractive, and it is quite useful in a water conserving or dry garden setting. It tolerates dry ordinary soils without much care other than occasional deep watering. It is resistant to oak root fungus and durable. Its height rarely exceeds 25.

Native range: Mediterranean Region

Horticultural use: Screen

#### TREE CHARACTERISTICS

Tree shape: Rounded or Vase Foliage type: Deciduous

Maximum tree height: 15 feet Canopy width: 15-20 feet Growth rate: ~24 in/year

Leaf arrangement and form: Opposite, Palmately Compound

Leaf/leaflet shape: Elliptic

Leaf color: Bluish Green or Silver or Gray Green

Fall color: Yes

Flowers: Showy, Fragrant

Flower color: Blue or Lavender. Flowering time: Fall or Summer

Fruit: Small Black Drupe

Fruiting time: Fall or Summer

Bark: Dark Gray or Light Gray, Blocky, Furrowed, Smooth

Litter: Dry Fruit

#### SITE CONDITIONS

Planting area: 2' to 5'

SelecTree Water Use Rating: Low

Sunset zones: 4 - 24

USDA zones: 6, 7, 8, 9, 10

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Sand or Clay

Soil pH: Very Acidic to Very Alkaline

Soil salinity tolerance: Good Inland

Salt spray tolerance: Moderate

#### **CONSIDERATIONS**

Branch strength: Medium Weak

Root damage potential: Low

Potential health issues: No known hazards

Wildlife interactions: Tree is deer resistant and attracts bees

Disease and pest resistance: Armillaria

Powerline friendly: Yes

#### **CITE THIS TREE**

SelecTree. UFEI. "Vitex agnus-castus Tree Record." 1995-2022. Cal Poly State University, San Luis Obispo. Accessed on Jul 20, 2022. < https://selectree.calpoly.edu/tree-detail/1464 >

## Fringe Tree (Chionanthus virginicus)

#### FRINGE TREE

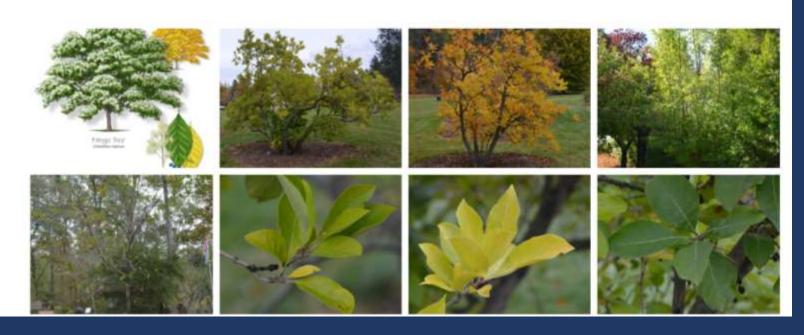
Chionanthus virginicus

FAMILY Oleaceae See all Chionanthus

#### **SYNONYMS**

#### ADDITIONAL COMMON NAMES

GRANCY GRAYBEARD



#### **GENERAL INFO**

Beautiful panicles of creamy white flowers. A tall shrub or small tree that could grow a bit taller in the right conditions but usually only grows to 20 feet or less.

Native range: Southeastern United States

Horticultural use: Screen

#### TREE CHARACTERISTICS

Tree shape: Rounded Foliage type: Deciduous

Maximum tree height: 20 feet Canopy width: 12-20 feet Growth rate: ~12 in/year

Leaf arrangement and form: Alternate, Simple

Leaf/leaflet shape: Oblong

Leaf color: Green Fall color: Yes

Flowers: Showy, Fragrant Flower color: Green or White.

Flower type: Has male and female reproductive parts in each flower

(perfect)

Flowering time: Spring

Fruit: Medium Purple or Mostly Blue Drupe

Fruiting time: Winter or Summer

Fruit value: Wildlife use it

Bark: Dark Gray, Light Gray or Red Brown, Furrowed, Scaly, Smooth

Litter: Dry Fruit



#### **SITE CONDITIONS**

Planting area: 2' to 5'

SelecTree Water Use Rating: Medium

Sunset zones: 2 - 6, 15 - 24

USDA zones: 4, 5, 6, 7, 8, 9

Sun exposure: Partial Shade to Full Sun

Soil texture: Loam or Clay

Soil pH: Very Acidic to Neutral

Salt spray tolerance: Moderate

#### **CONSIDERATIONS**

Branch strength: Medium

Root damage potential: Low

Potential health issues: No known hazards

Wildlife interactions: Tree is deer resistant and attracts birds

Powerline friendly: Yes

#### **CITE THIS TREE**

SelecTree. UFEI. "Chionanthus virginicus Tree Record." 1995-2022. Cal Poly State University, San Luis Obispo. Accessed on Aug 24, 2022. < https://selectree.calpoly.edu/tree-detail/348 >

## WUCOLS IV (Water Use Classification of Landscape Species): http://ucanr.edu/sites/WUCOLS

This site's main strength is its water use characterizations of plants. It is the gold standard for the CA Dept. of Water Resources. For actual care recommendations and selecting plants by characteristics the http://selectree.calpoly.edu website previously discussed is more useful.

## WUCOLSIV

### Water Use Classification of Landscape Species

#### Home Page

User Manual

Plant Search Instructions

Plant Search Database

Download WUCOLS IV Plant List

Download WUCOLS IV User Manual

Water Requirements for Turfgrasses

Partners

Acknowledgements

#### Home Page

#### GETTING STARTED

If you are using the WUCOLS list for the first time, it is essential that you read the *User Manual*. The manual contains very important information regarding the evaluation process, categories of water needs, plant types, and climatic regions. It is necessary to know this information to use WUCOLS evaluations and the plant search tool appropriately. To access the User Manual, click on the tab (on left) and view specific topics.

Water conservation is an essential consideration in the design and management of California landscapes. Effective strategies that increase water use efficiency must be identified and implemented. One key strategy to increase efficiency is matching water supply to plant needs. By supplying only the amount of water needed to maintain landscape health and appearance, unnecessary applications that exceed plant needs can be avoided. Doing so, however, requires some knowledge of plant water needs.

WUCOLS IV provides evaluations of the irrigation water needs

















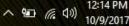




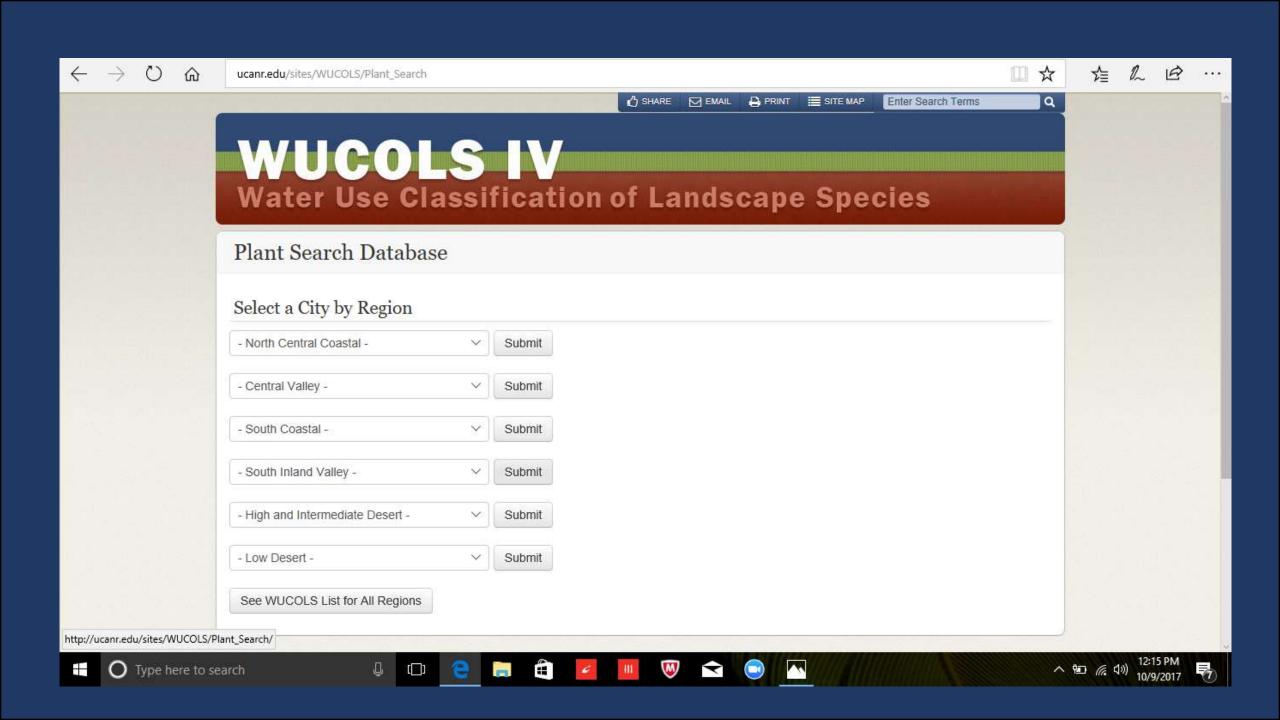












### 

#### Plant Search Database

City	San Diego	
Region	South Coastal	

▼ Legend: Plant Types

▼ Legend: Categories of Water Needs

Search Results: 249

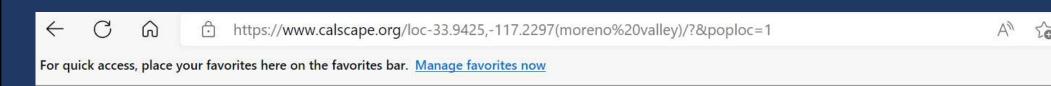
Туре	Photo	Botanical Name	Common Name	Water Use	Export
Т	N/A	Abies pinsapo	Spanish fir	Low	
T		Acacia baileyana	Bailey acacia	Low	
ST	N/A	Acacia berlandieri	guajillo	Low	
ST	N/A	Acacia constricta	whitethorn acacia	Low	
ST		Acacia craspedocarpa	leatherleaf acacia	Low	

★ Export List

Q Search Again

## California Native Plant Society: http://www.calscape.org/

The strength of this website is identifying native plants. The weaknesses are that many plants listed no longer thrive under current conditions (e.g.: climate change and urban heat islands). Again, the http://selectree.calpoly.edu website has better care recommendations for urban areas





CALSCAPE SIGN II



Search for California native plants by name

BUTTERFLIES

ADVANCED SEARCH

Enter a California address or click the map to see plants native to that location

MY PLANT LISTS

Moreno Valley

ABOUT CALSCAPE CONTACT CALSCAPE PLANTING GUIDE

#### **651** plants native to 33.9425,-117.2297 (Moreno valley)



All Plants



Annuals 282



Trees 27

Grasses

71





122

Succulents 14

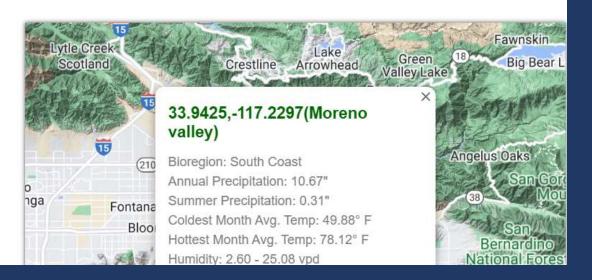


NURSERIES

Perennials 184



Vines 16



**GARDEN PLANNER** 



Search for California native plants by name

HOME > TRI

#### Enter a California address to see trees native to that location

Moreno Valley

#### 27 trees native to Moreno Valley

Options



Coast Live Oak

Quercus agrifolia



Fremont Cottonwood

Populus fremontii



Western Sycamore

Platanus racemosa



Blue Elderberry

Sambucus mexicana



Engelmann Oak

Quercus engelmannii



Box Elder

Acer negundo



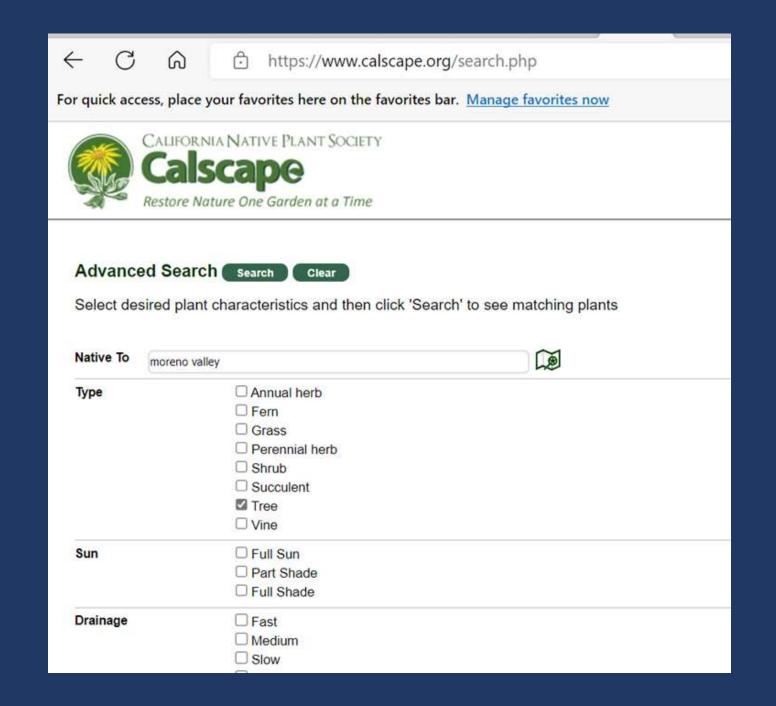
White Alder

Alnus rhombifolia



Scrub Oak

Quercus berberidifolia



← C A	https://www.calscape.org/search.php	Α'n
or quick access, place yo	ur favorites here on the favorites bar. Manage favorites now	
Water Requirement	☑ Extremely Low	
	✓ Very Low	
	Low	
	☐ Moderate - High	
Ease of Care	☐ Very Easy	
	☐ Moderately Easy	
	☐ Fairly Difficult	
	□ Very Difficult	
Common Uses	☐ Bank Stabilization	
	☐ Bee Gardens	
	☐ Bird Gardens	
	☐ Bogs and Ponds	
	☐ Butterfly Gardens	
	☐ Butterfly Host Plants	
	Deer Resistant	
	Groundcovers	
	Hedges	
	☐ Hummingbird Gardens	
Availability in Nurseries	☐ Commonly Available	
	☐ Sometimes Available	
	☐ Rarely Available	
	□ Never or Almost Never Available	
	☐ Available Through Seed Stores	
Nurseries	☐ 3 Rivers Blooms	
	☐ Ackerman Native Plant Nursery	
	☐ Alladin Nursery & Gift Shop	
	☐ Almaden Valley Nursery	

- C A	https://www.calscape.org/search.php	
r quick access, place	your favorites here on the favorites bar. Manage favorites now	
	☐ Back to Natives Nursery @ Santiago Park	
	☐ Bay Natives	
	☐ Bay Natives	•
Fragrance	☐ Fragrant - Pleasant	
	☐ Fragrant - Unpleasant	
	□ None	
	□ Slight	
Flower Color	□ Black	
	□ Blue	
	Brown	
	☐ Cream	
	Green	
	Lavender	
	Orange	
	□ Pink	
	Purple	
	Red	
	White	
	☐ Yellow	
Flowering Season	☐ Spring	
	Summer	
	□ Fall	
	☐ Winter	
Height	● Feet ○ Inches	
Genus		

HOME > ADVA



**Advanced Search Results** 

**Edit Search** 

14 Plants. Native to: moreno valley. Type: Tree. Water Requirement: Extremely Low, Very Low, Low.



Coast Live Oak Quercus agrifolia



Blue Elderberry Sambucus mexicana



Engelmann Oak Quercus engelmannii



Scrub Oak Quercus berberidifolia



Nuttall's Scrub Oak Quercus dumosa



Hollyleaf Cherry Prunus ilicifolia



Leather Oak Quercus durata



California Juniper Juniperus californica



Red Shanks Adenostoma sparsifolium



Mesquite Prosopis glandulosa



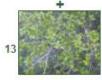
Mesquite

Prosopis glandulosa var. torreyana



Black Elderberry Sambucus

nigra



Interior Live Oak Quercus

wislizeni



Northern California **Black Walnut** 

Juglans hindsii

### Example of Tree With These Criteria



Search for California native plants by name

ADVANCED SEARCH

HOME > ADVANCED SEARCH > ADENOSTOMA SPARSIFOLIUM | PREVIOUS NEXT

#### Red Shanks Adenostoma sparsifolium











https://www.calscape.org/search/loc-33.9207,-117.1147%20(Moreno%20valley)/Adenostoma-spa...











For quick access, place your favorites here on the favorites bar. Manage favorites now

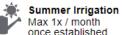
#### Landscaping Information



Full Sun



Moisture Very Low









**Cold Tolerance** Tolerates cold to



Soil Drainage Fast, Medium,



Soil Description

Tolerates a variety of soils including decomposed granite, sand and clay. Soil PH: 6.2 - 7.2



Common uses

Hedges, Bank Stabilization, Bee Gardens



Companion Plants

Use with other shrubs of inland chaparral such as <u>California Copperleaf</u> (<u>Acalypha californica</u>), Yarrow (<u>Achillea millefolium</u>), Manzanita (<u>Arctostaphylos sp.</u>), <u>Milkweed</u> (<u>Asclepias sp.</u>), <u>Ceanothus sp.</u>), <u>Milkweed</u> (<u>Asclepias sp.</u>), <u>Ceanothus sp.</u>), <u>Milkweed</u> (<u>Asclepias sp.</u>), <u>Milkweed</u> (<u>Asclepias sp.</u>), <u>Ceanothus sp.</u>), <u>Penstemon sp.</u>, <u>Flannelbush</u> (<u>Fremontodendron californicum</u> or mexicanum), <u>Chaparral Yucca</u> (<u>Hesperoyucca whipplei</u>), <u>Penstemon sp.</u>, Bladderpod (Peritoma arborea), Redberry (Rhamnus crocea), Sumac (Rhus sp.), Matilija Poppy (Romneya coulteri), Sage (Salvia sp.), and Mojave Yucca (Yucca shidigera)



Propagation?

For propagating by seed: No treatment. Soaking in 10% H2S04 for 15 mins. may improve germination.



Sunset Zones?

7, 8, 9, 14\*, 15\*, 16\*, 17, 18\*, 19\*, 20\*, 21\*, 22, 23, 24

#### **Natural Setting**



Dry slopes, foothills and valleys, generally inland, from San Luis Obispo County southward



Climate

Annual Precipitation: 5.9" - 32.5", Summer Precipitation: 0.15" - 3.08", Coldest Month: 37.7" - 55.2", Hottest Month: 60.5" - 84.1", Humidity: 0.96" - 35.01", Elevation: -30" - 7263"

#### **Alternative Names**



Common Names: Redshanks



Search for California native plants by name

Q)

#### Enter a California address to see trees native to that location

Indio

8 trees native to Indio

**Options** 



Fremont Cottonwood

Populus fremontii



Honey Mesquite

Prosopis glandulosa



Blue Palo Verde

Parkinsonia florida



Screwbean Mesquite

Prosopis pubescens



Mesquite

Prosopis glandulosa var. torreyana



Smoke Tree

Psorothamnus spinosus



Fan Palm

Washingtonia filifera



Fremont Cottonwood

Populus fremontii ssp. fremontii

# **Keys to Successful Plant Problem Diagnosis**

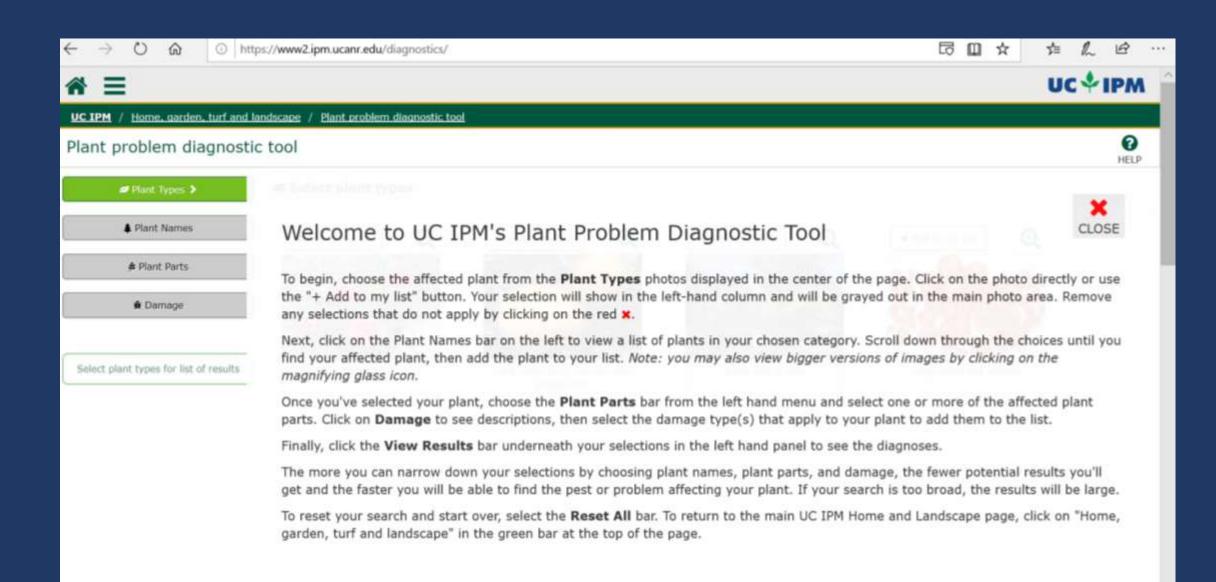
Questions, Questions, Questions! (It's an art and a science!)

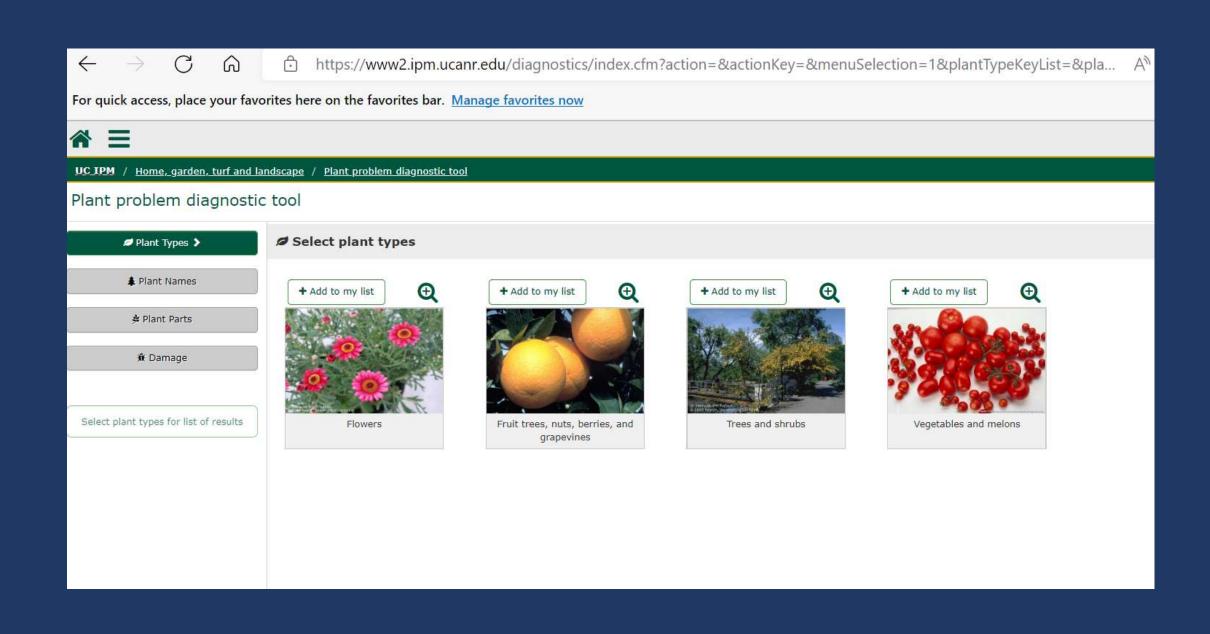


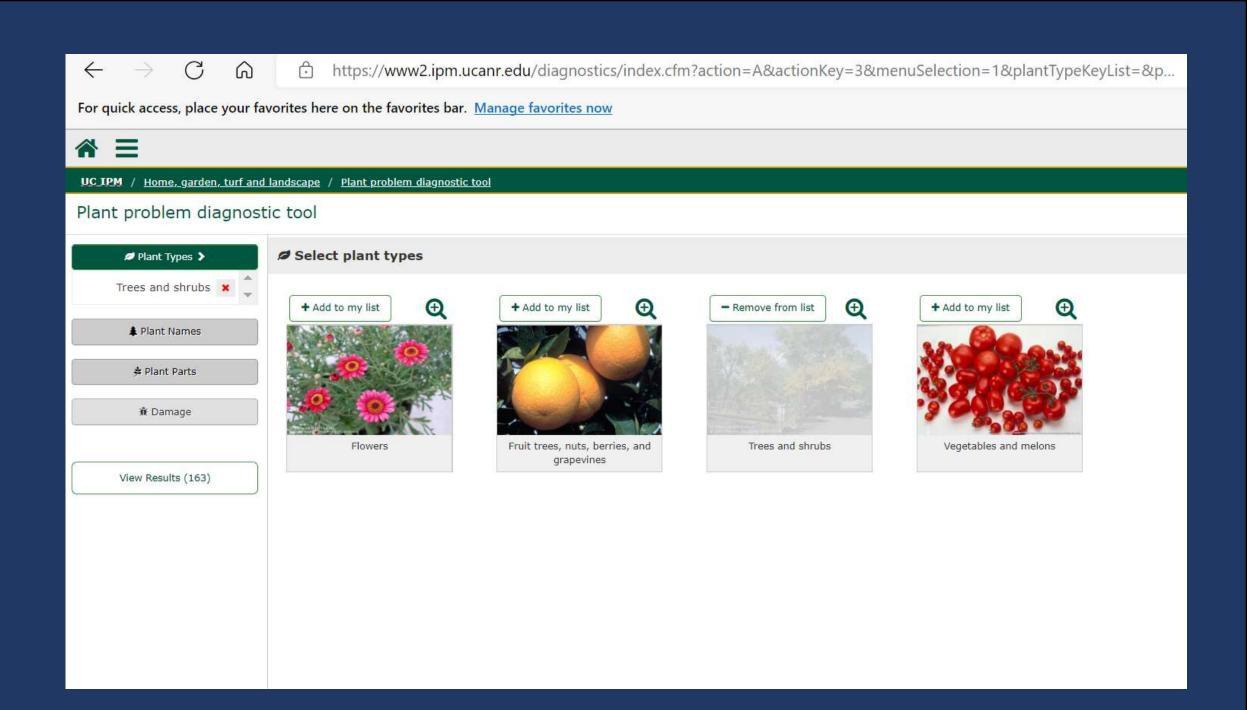
# Remember this Diagnostic Lifeboat To Help You Identify Insect, Disease, and Abiotic Problems!

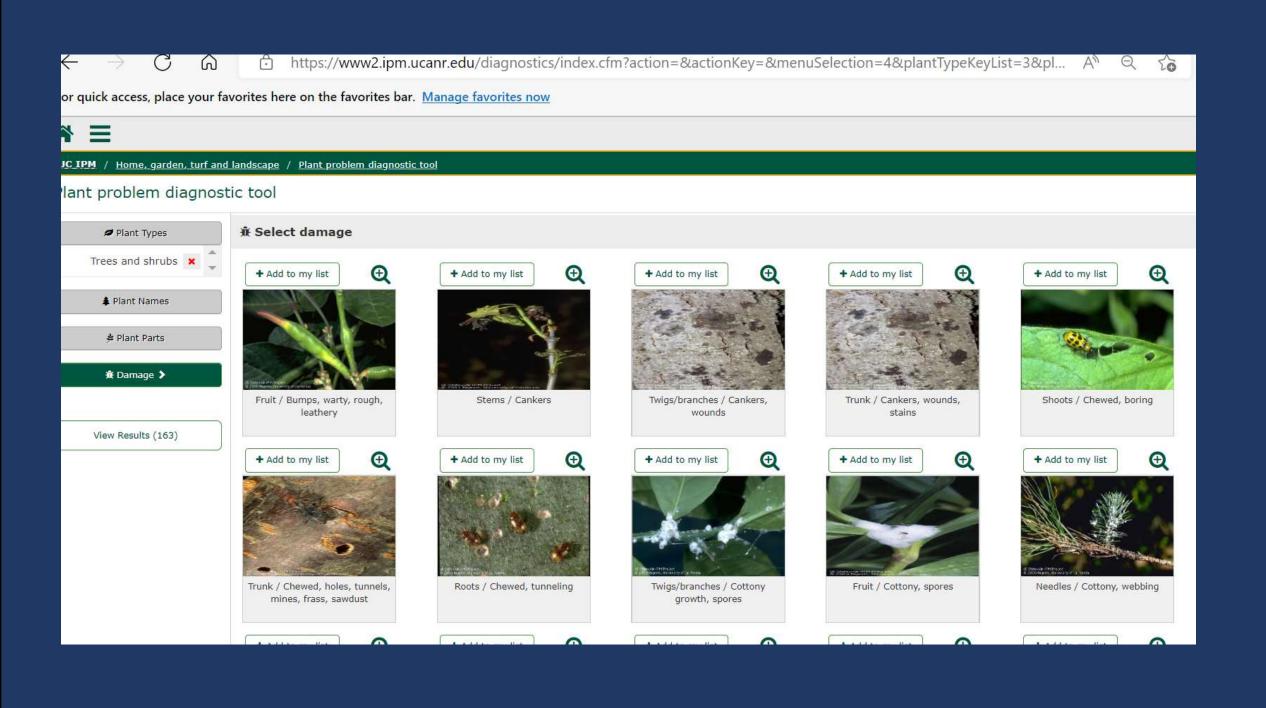
https://www2.ipm.ucanr.edu/diagnostics/







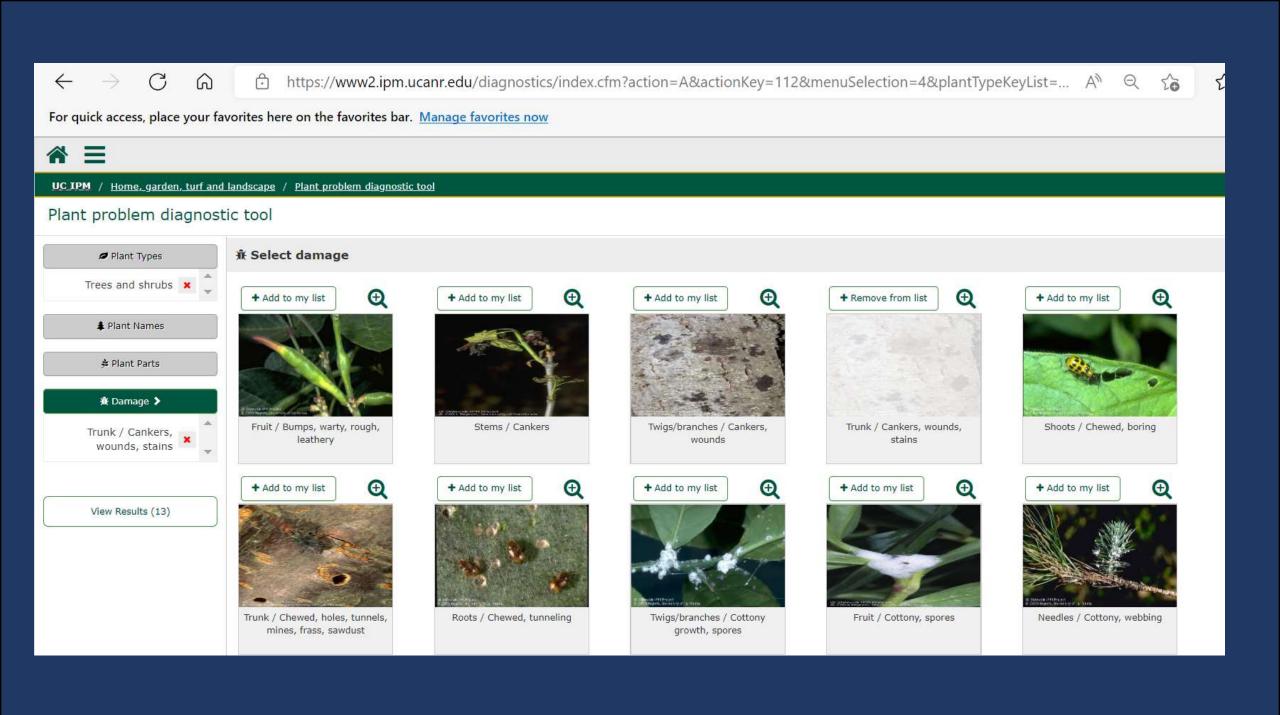




Crown gall Cryptomeria blight Cutworms Cyclamen mite Cypress bark mealybug Cypress bark moths Cypress bark scale Cypress tip miner Damping-off diseases Dematophora root rot Downy mildew of roses Drippy oak (drippy acorns) Dutch elm disease Eastern filbert blight Edema Elm leaf beetle Entomosporium leaf spot Escallonia dieback Eucalyptus longhorned

Hairy root Honeylocust pod gall midge Hoplia beetle Injuries Juniper twig girdler Lace bugs Lead cable borer Leaf and bud drop Leaf beetles Leaf burn or scorch Leaf drop (natural senescence) Leaf gall Leaf scorch Leaf spot Leaf spot diseases Leafcutting bees leaffooted hug

Pine needle weevils Pine weevils Pinewood nematode Pit scales Pitch canker Pitch moths Poplar and willow borer Potato psyllid Powdery mildew Premature bud drop Pseudonectria canker (volutella canker and blight) Psyllids Raspberry horntail Redhumped caterpillar Rose curculio Roundheaded (longhorned) borers







For quick access, place your favorites here on the favorites bar. Manage favorites now





UC.IPM / Home, garden, turf and landscape / Plant problem diagnostic tool

#### Plant problem diagnostic tool

HELP

Results for: trees and shrubs, cankers, wounds, stains

American plum borer

Anthracnose

Canker diseases

Canker stain (ceratocystis canker)

Collar, foot, root, and crown rot

Cypress bark moths

Fire blight

Injuries

Pine needle weevils

Pine weevils

Pitch canker

Sudden oak death

Sunburn, sunscald, or excessive or inadequate light

Wetwood or slime flux

◆ Back to diagnostics

#### Sunburn

Sunburn is damage to bark, foliage, fruit, and other aboveground plant parts caused by excessive exposure to solar radiation. Sunburn injury to bark increases tree susceptible to wood-boring pests and contributes to tree decline and premature death.

Sunburn is usually associated with warm weather and often with insufficient soil moisture availability. Sunburn is common in new plantings that lack a well-developed root system. Restricted soil volumes, inappropriate soil moisture, or anything that makes roots unhealthy or prevents plants from absorbing adequate water may contribute to sunburn. Even in soil that is saturated with water, sunburn may occur.

Sunburn often occurs on the stems or trunks of young woody plants. Their bark is thin, and they may not tolerate being exposed to direct sun in landscapes, especially if they were grown close together in nurseries where their trunks were shaded.

Older trees can be damaged when bark is newly exposed to the sun because of pruning or premature leaf drop. Removing structures or trees that provided shade or adding pavement or structures that reflect light or radiate heat around established plants can also lead to sunburn.

#### Identification

Usually sunburn injury is most severe, or present only, on the south and west sides of plants and on the upper side of horizontal branches that are not adequately shaded. Sunscald, certain canker disease pathogens, water deficit, and certain other disorders can cause bark damage that resembles sunburn.

Sunburned bark may discolor, and if the injury is recent it may ooze sap. As affected tissue dries, it becomes cracked or sunken, bark may peel away, and the wood may be attacked by boring insects and decay fungi. Sunburned trunks and limbs can become cankered or girdled and killed.

Sunburned broadleaf foliage may appear glazed (abnormally shiny), silvery, or reddish brown and may progress to necrosis beginning at leaf tips, margins, and between veins. Sunburned conifer needles turn black or brown or drop prematurely.

#### Solutions

Plant where roots will have adequate soil volume and sufficient growing space as they mature. Choose plants that are well adapted to the local environment, plant properly, and provide appropriate cultural care. Avoid anything that damages roots or prevents them from absorbing sufficient nutrients or water, including irrigating too frequently.

Encourage desired branch structure by properly oruning and training plants while they are young. Retain some temporary lower branches that help shade the trunk, avoid pruning during summer, and avoid pruning off more than about 20% of the plant canopy during any one year. Apply and maintain appropriate mulch to conserve soil moisture and reduce soil temperatures furing summer. Minimize changes to a plant's environment upless deliberately done to improve condition

Sunburn discoloring of foliage Sunburn discoloring of foliage

Sunburned upper side of unshaded limb

Sunburned upper side of unshaded limb

Sunburned southwest side of a trunk

Sunburned southwest side of a trunk

## University of California Agriculture and Natural Resources

Tree Walk Photo Shares from UCCE Master Gardeners of Orange, San Bernardino, Los Angeles and Riverside Counties





## Robin R.

# 4	and Tree common name	Palm tree (Y/N)	to	Is tree causing buckled sidewalks, streets, or driveways? Y/N	Is it staked too tightly? Y/N/NA	Is there evidence of being topped?	Is turf or groundco ver growing around tree trunk?	from sprinkler s likely hitting tree trunk?	Other issues? (Please list)	Photo?
						Y/N	Y/N	Y/N/Unk nown		Y/N
1	Canary Island pine	N	possibly in the future	no	NA	N	N	N	New sapling; <5 years	Υ
2	Chinese fringe tree	N	N	no	NA	N	N	N	New sapling; <5 years	Υ
3	3 Camphor	N	N	maybe	NA	Y (recent)	N	N	Fake turf and gravel just replaced turf, and was recently topped so it's awful now	Yes, before and after
4	1 Carrotwood	N	N	N	NA	N	Υ	N	Drought stressed, should be removed	
į	Carrotwood	N	N	N	NA	N	Υ	N	Needs water to survive	
(	Weeping bottlebrush	N	maybe	N	NA	N	Υ	N	Beautiful mature tree, much larger than specs say they in Zone 23	
7	7 California sycamore	N	maybe	N	NA	Y	N	N	Needs water, mature & large	

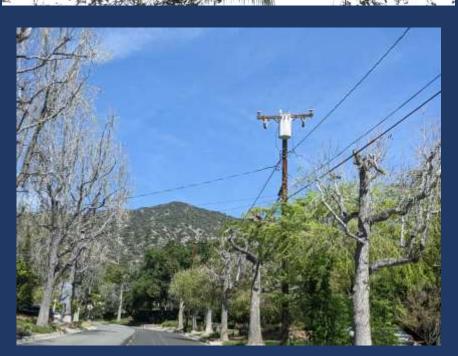
Α	В	С	D	E	F	G	Н	I	J	K
8	Evergreen pear	N	N	N	NA	Y	Υ	N	fireblight, but otherwise okay	
9	Fern pine	N	N	N	NA	Υ	Υ	Υ	repeatedly topped	Υ
10	Strawberry tree	N	N	N	NA	Y at nursery	N	N	Younger <10 years; poor nursery stock	
11	Guadalupe palms (2)	Υ	N	N	NA	N	Υ	N	Nice, mature, smaller palms, always look good, no pruniong needed	
12	Goldenrain tree (2)	N	N	N	N	N	Υ	N	2 seedlings - just planted (one is already dead)	
13	Camphor (2)	N	N	N	NA	Υ	Υ	N	sickly parkway trees	
14	Mesquite	N	N	N	Υ	N	Υ	Υ	bad nursery stock, planted poorly; struggling	
15	Jacaranda	N	N	N	NA	N	Υ	N	healthy and flourishing	
16	Weeping bottlebrush (2)	N	N	N	NA	Υ	Υ	Υ	regularly whacked by gardeners	
17	Crape myrtle	N	N	N	NA	N	N	N	Nice, multi	
18	Japanese maple (unknown cultivar)	N	N	N	NA	N	N	N	Beautiful; and doing amazingly well in Zone 23	
19	Deodar cedar	N	Υ	N	NA	N	N	N	Awesome mature skyline tree	
20	Aleppo pine	N	N	N	NA	N	N	N	Was once Xmas tree	
21	Crape myrtle (Natchez)	N	N	N	NA	N	N	N	Lovely single-trunk; <10 years old	
22	Apple (Anna)	N	N	N	NA	N	N	N	fruiting	
23	Brisbane box (2)	N	N	N	NA	Υ	N	N	Power line issues	
24	Mexican fan palms (4)	Υ	N	N	NA	N	N	N	Parwkays speciems are very tall; and will soon	

#### Tree Care Checklist to use for Pre-Class Assignment

#### (UCCE Los Angeles County Trainees)

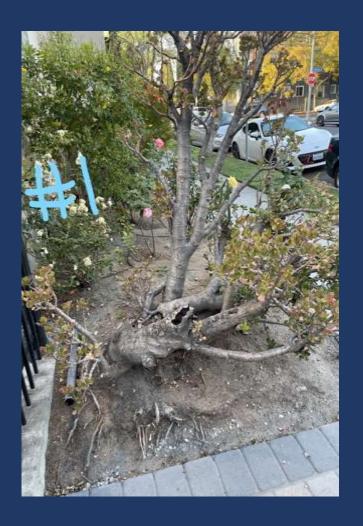
Tree # (address optional)	Palm Tree? Y/N	Is tree too close to structures? (Y/N)	Is tree causing buckled sidewalks, streets, or driveways ? Y/N	Is tree staked too tightly? (N/A) or Y/N	Is there evidence of tree being topped? Y/N	Is turf or groundcover growing around tree trunk? Y/N	Is irrigation water from sprinklers likely hitting tree trunk? Y/N/Unknown	Other issues? (Please list)	Photo? Y/N (email it to jshartin@uc anr.edu)
South Pasadena	N	N	Yes	NA	N	N	Y	close to street and other plants	Y
South Pasadena	N	N	YES	NA	N	Y	Y	CLOSE TO STREET	Y
SOUTH PASADENA	N	YES FENCE	N	NA	N	N	N	HUMA N TRAFFI C	Y
SOUTH PASADENA	N	YES FENCE	N	N	N	Y	N	ENCLO SED PLANT ER	Y

SOUTH PAS	N	YES	N	NA	N	YES	Y	NO ROOM	Y
SOUTH PAS	N	YES	YES	NA	N	YES	YES	NO ROOM	YES
SOUTH PAS	N	YES	N	NA	N	YES	YES	NO ROOM, ROCKS	YES
SOUTH PAS	N	YES	YES	NA	N	YES	YES	NO ROOM	YES
SOUTH PAS	N	N	Υ	NA	YES	YES	YES	NO ROOM	YES
SOUTH PAS	N	N	N	NA	NO	N	U	NOT SURE TREE LOOKS GOOD?	YES
SOUTH PAS	N	N?	N	NA	YES	YES	YES		YES
SOUTH PAS	N	YES	N	NA	YES	U	U	TOO CLOSE TO OTHER TREE, FENCE	YES



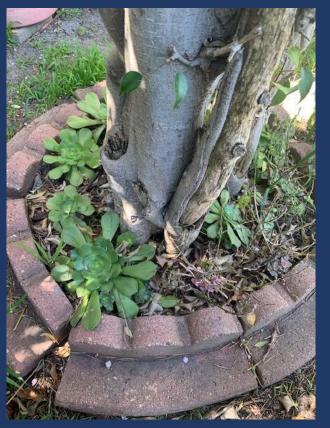




















# Lucia: worksheet and tree in wrong location

Lot/Tree number (e.g.: enter all the trees in front of the first house as 1/1, 1/2, 1/3, etc.)	Palm Tree? Y/N	is tree too close to structures? (Y/N)	Is tree causing buckled sidewalks, streets, or driveways? Y/N	is tree staked too tightly? (N/A) or Y/N	Is there evidence of tree being topped? Y/N	Is turf or groundcover growing around tree trunk? Y/N	Is irrigation water from sprinklers likely hitting tree trunk? Y/N/Unknown	Other issues? (Please list)	Photo? Y/N (upload 2-3 per walk in VMS under the 'Trees for Tomorrow' photo album)
1	Υ	N	N	N	N	N	U		N
2	N	N	N	N	N	Y	U		N
3	N	N	Υ	N	N	Y	U		N
4	N	N	N	N	Y	Y	U	Growing at an angle	N
5	N	N	N	N	N	Y	U		N
6	N	N	Y	N	N	Y	U		N
7	N	N	N	N	Υ	N	U		N
8	N	N	N	N	N	Y	U		N
9	N	N	N	N	Υ	N	U		N

10	Y	N	N	N	N	N	U	N
11	N	Υ	Υ	N	N N U	N		
	-		-					



#### Heather H: Tree walk results

Tree # (address optional)	Palm Tree? Y/N	Is tree too close to structures? (Y/N)	Is tree causing buckled sidewalks, streets, or driveways ? Y/N	Is tree staked too tightly? (N/A) or Y/N	Is there evidence of tree being topped? Y/N	Is turf or groundcover growing around tree trunk? Y/N	Is irrigation water from sprinklers likely hitting tree trunk? Y/N/Unknown	Other issues? (Please list)	Photo? Y/N
12541-1	N	10ft	Y	N	N	N	N		African Sumac
2	N	N	N	N	Υ	N	U		Melaleuc a
3	N	N	N	N	Υ	N	U		Acacia
4	N	N	N	N	N	N	N		Jacarand a
5	Y	N	N	N	N	N	U		palm

#### Susan S. Tree #1: buckled sidewalk, pavement

#### Tree Care Checklist

Please consider emailing results and a few photos to Janet Hartin (<a href="mailto:lishartin@ucanr.edu">lishartin@ucanr.edu</a>) before her presentation on 7/21. She'll include a few in her presentation.

(Note, you do not need to include actual addresses; you may just label trees #1, #2, etc.)

Tree # (address optional)	Palm Tree? Y/N	Is tree too close to structures? (Y/N)	is tree causing buckled sidewalks, streets, or driveways ? Y/N	Is tree staked too tightly? (N/A) or Y/N	Is there evidence of tree being topped? Y/N	Is turf or groundcover growing around tree trunk? Y/N	is irrigation water from sprinklers likely hitting tree trunk? Y/N/Unknown	Other issues? (Please list)	Photo? Y/N
1	N	N	Y	N	N	N	N		
#2	N					Y			
#4			Y						
#5		Y							
#3		Y							
#6						Y			



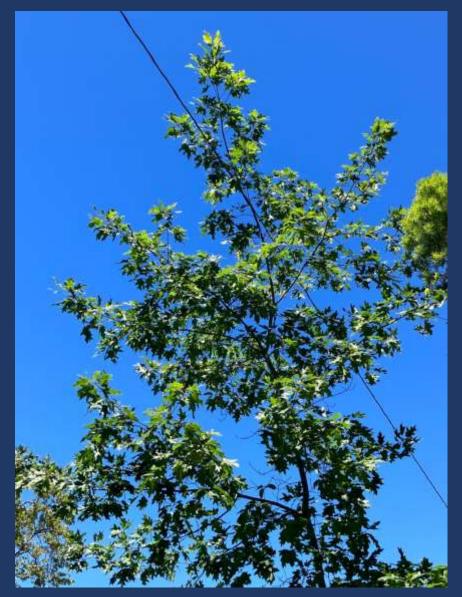
## Susan S: Tree too close to structure, vegetation around tree





### Whitney and Susan S: Powerline Issues





DeLayne: Topped tree w/turf issues; staking needs to be loosened





### Nancy H. and Jacqui: Topped/hacked trees







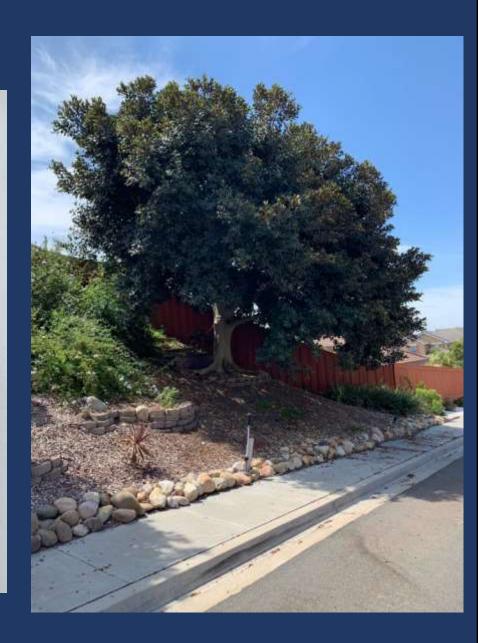
#### Lynn L: Water hitting trunk

#### Tree Care Checklist

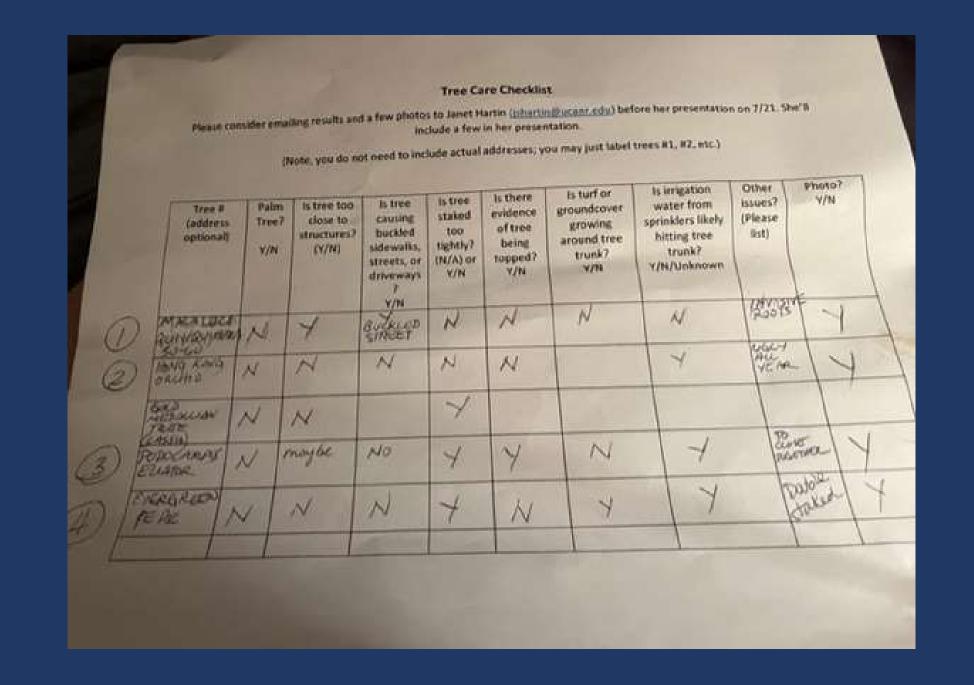
Please consider emailing results and a few photos to Janet Hartin (<u>ishartin@ucanr.edu</u>) before her presentation on 7/21. She'll include a few in her presentation.

(Note, you do not need to include actual addresses; you may just label trees #1, #2, etc.)

Tree # (address optional)	Palm Tree? Y/N	Is tree too close to structures? (Y/N)	Is tree causing buckled sidewalks, streets, or driveways ? Y/N	Is tree staked too tightly? (N/A) or Y/N	Is there evidence of tree being topped? Y/N	Is turf or groundcover growing around tree trunk? Y/N	Is irrigation water from sprinklers likely hitting tree trunk? Y/N/Unknown	Other issues? (Please list)	Photo? Y/N
Baesson	N		N	MA	N	N	lukaran		Y
Bankers 1+171	N	7	N	NA	2	4	Y		+
Penusquis	N	У	N	NIA	N	N	Y		4
	-					74		BB	



#### Carvill V.



# And Some Good Examples!







