

# *Olea europaea*

## Fruitless Olive

<b>Family</b>	Oleaceae
<b>Native Region</b>	Fruitless variety developed at UC Davis via the Mediterranean region
<b>Plant Type</b>	Tree
<b>Average Height</b>	25' – 30'
<b>Average Spread/Width</b>	20' – 25', Round shape
<b>Exposure</b>	Full Sun

### Leaf

- Multi-stemmed and quite graceful, as they age they can acquire gnarled, sculptural branches that give character
- Evergreen, 1 – 3 inch leaves provide shade year round
- Simple, alternate silver-gray to gray-green leaves
- Trunk diameter is in the range of 12 to 18 inches



### Flower

- Small non-showy and cream-colored, blooming occurs in the spring
- Does not produce fruit and therefore eliminates the messy fruit drop and possible allergy problems associated with fruit producing varieties



**Flower Color** White

**Fruit** Fruitless

**Cold Hardy** 15° F

### Additional Notes:

- Olive trees have a classic Mediterranean look - gray and willowy
- Very drought tolerant once established
- Moderate growth rate
- Fruiting olive trees are banned in Arizona in landscapes





# *Parkinsonia Sp.*

## Palo Verde, Palo Brea and Desert Museum

<b>Family</b>	Fabaceae (Legume)
<b>Native Region</b>	Southwest US and Northern Mexico
<b>Plant Type</b>	Tree
<b>Average Height</b>	25' – 30'
<b>Average Spread/Width</b>	20' – 25', Round shape Trunk diameter: 1 foot to 1½ feet
<b>Exposure</b>	Full Sun

### Leaf

- Palo Verde is drought deciduous (sheds its leaves during extended dry spells) at which time the tree relies on its green stems and branches for photosynthesis
- Branches grow double or triple sharp spines ¼ inch long from leaf axils
- Hairless leaves are alternate (7 to 10 inches long, flattened petiole edged by 2 rows of 25–30 tiny leaflets)



### Flower

- Flowers are yellow-orange and fragrant, ¾ inch in diameter, growing from a long slender stalk in groups of 8 to 10
- The flowering period is the middle months of spring










<b>Flower Color</b>	Yellow
<b>Fruit</b>	Seedpod, leathery, mature light brown
<b>Cold Hardy</b>	10° F

### Additional Notes:

- Palo Verde translated means “green stick” in Spanish; all parts of the tree (leaves, branches, limbs and trunk) are green
- Among the most drought tolerant trees
- Palo Verde, Palo Brea and Desert Museum are often found in urban landscapes due to the striking colors of their bark
- Flowers are pollinated by bees





<b><i>Tipuana tipu</i></b>		   
<b>Tipuana-tipu (Rosewood)</b>		
<b>Family</b>	Fabaceae (Legume)	
<b>Native Region</b>	South Brazil	
<b>Plant Type</b>	Tree	
<b>Average Height</b>	25' – 40'	
<b>Average Spread/Width</b>	30' – 60', wider than high Trunk diameter: 1 foot to 1½ feet	
<b>Exposure</b>	Full sun to partial shade	
<b>Leaf</b> <ul style="list-style-type: none"> <li>• Flattened crown that is wider than high, but can be pruned to make a denser, narrower, umbrella shaped crown</li> <li>• 3 inch light green leaves divided into 11-21 oblong, 1 ½" long leaflets</li> <li>• Leaves grow in clusters; fern-like leaves has very lacy weeping boughs</li> </ul>		
<b>Flower</b> <ul style="list-style-type: none"> <li>• Early summer, puts on a very unique show of golden blooms over the entire tree</li> <li>• Yellow to apricot pea shaped flowers, ¾ inches across</li> </ul>		
<b>Flower Color</b>	Yellow	
<b>Fruit</b>	Samara, 'helicopter' winged pod, tan	
<b>Cold Hardy</b>	25° F	
<b>Additional Notes:</b> <ul style="list-style-type: none"> <li>• In some cases, roots are known as 'travelers' and, in some cases, have been known to lift concrete; install root barriers</li> <li>• Great shade tree</li> <li>• Tends to form low co-dominant stems that if unpruned might form bark inclusions resulting in catastrophic limb failure</li> <li>• Great selection for lots of shade; very rapid growth rate</li> <li>• Training in years 1 – 5 critical to obtain good structure</li> </ul>		



# *Olneya tesota*

## Desert Ironwood

<b>Family</b>	Fabaceae (Legume)
<b>Native Region</b>	South Brazil
<b>Plant Type</b>	Tree
<b>Average Height</b>	15' – 30'
<b>Average Spread/Width</b>	15' – 30', round Trunk diameter: 18 inches
<b>Exposure</b>	Full sun to partial shade

### Leaf

- Gray-green leaves, each with two spines at the base, many  $\frac{3}{4}$  inch leaflets
- Leathery, compound, pinnate leaves about 2 inches long with 6 to 9 leaflets about  $\frac{3}{4}$  inch long
- Leaves are covered with fine hairs
- A pair of thorns about  $\frac{1}{2}$  inch long grows at the base of each leaf



### Flower

- Blooms in late spring with clusters of pinkish lavender  $\frac{1}{2}$  inch sweet pea shaped flowers
- Flowers grow in arches at the end of branches



<b>Flower Color</b>	Lavender to pink
<b>Fruit</b>	Dark brown, fuzzy, 2" pods
<b>Cold Hardy</b>	15° F

### Additional Notes:

- Nitrogen-fixing nodules on the root system, and nutrient-rich leaf litter fertilizes the soil around it
- Native bees pollinate the ironwood flowers
- Usually grows from several trunks
- When given enough water, grown as evergreen shade trees

