



SAN RAFAEL
THE CITY WITH A MISSION

CITY APPROVED STREET TREES

February 2019

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Caring for Your New Tree

You want your tree to be its best. To grow larger. To live longer. To look better.

For that to happen, you need to care for it throughout the seasons. Water it during dry spells. Mulch in the spring. And, fertilize your tree when it lacks nutrients.

How much water does my new tree need?

Newly planted trees are under stress due to their new environment, so they'll need extra love and care! Proper watering is essential to bringing moisture and oxygen to your trees' roots. Newly planted trees should have a watering ring of soil mounded around the tree to help keep water in the root zone.

During the first two weeks, deeply water young trees every day by allowing the water to seep down to the root zone. This will take longer in heavier clay soils than in sand or loam-based soils. Then, water a new tree once a week for the first two years, while it still has its leaves. There is no need to water during the winter when the tree is dormant. Be sure to take rainfall into account before watering, too. Also, be sure to water gently and not forcefully spray the root ball and expose the new roots.

Of course, during hot, dry periods, water more frequently. If the temperature is over 80°F, water twice a week. When the temperature reaches 90°F and above, the tree would benefit from receiving water three or more times a week.

Should I mulch my new tree?

Mulch is just what new trees need to retain moisture, control soil temperature and ward off weeds.

You want to avoid piling on *too* much mulch, though. Known as volcano mulching, this creates a cool, damp environment, which can attract fungi, pests and diseases. All of these factors stress out your new tree.

Organic mulch works best. Apply 2 to 4 inches of mulch around the tree's drip zone, which is as far as the tree's leaves grow out. Be sure to leave 1 to 2 inches from the tree trunk clear of mulch to provide proper air circulation.

When should I be fertilizing my newly planted tree?

Nutrients are generally lacking in our yard's soil – this is why newly planted trees should be fertilized at the time of planting.

From then on, a good time to fertilize trees in most Northern temperate climates is from fall to mid-spring. The fertilizer must also be placed underneath the roots of any competing plants such as grass or other ground cover. Spreading granular fertilizer on the lawn might make your grass greener, but it will likely not help your tree.

Table of City Approved Street Trees

STREET TREES SPECIES TABLE KEY

| | | | |
|--|---|-----------------------------------|---|
| Habitat: Evergreen or Deciduous | Height: Potential maximum height | Fall Color: leaf color | Flower: season of bloom — win (winter), sp (spring), su (summer), f (fall) |
| Fragrant: flower, leaf, or bark | Soil: Clay, Loam, or Sand | RPD: root damage potential | |
| Shape: Potential canopy form | | | |

| 2' Planter | Genus/species | Common Name | Habit | Height | Fall color | Flower | Fragrant | Soil | RDP | Shape |
|------------|--------------------------------------|---------------------|-------|--------|----------------|-----------------|----------|-------|------|---------------------------|
| | <i>Acer davadii</i> | David's Maple | D | 35' | rd,gld,purpl | sp-grn/yellow | | C,L | low | oval/rounded |
| | <i>Acer ginnala</i> | Amur Maple | D | 25' | rd,gld,multi | sp-yellow | flower | C,L,S | low | oval,erect,spreading |
| | <i>Lagerstroemia fauriei</i> | Crape Myrtle | D | 30' | none | su-white | | C,L,S | low | vase |
| 3' Planter | Genus/species | Common Name | Habit | Height | Fall color | Flower | Fragrant | Soil | RDP | Shape |
| | <i>Acer buergeranum</i> | Trident Maple | D | 25' | red/gold | sp-yellow | | C,L,S | low | oval/rounded |
| | <i>Carpinus betulus 'Fastigiata'</i> | European Hornbeam | D | 35' | red/gold | sp- | | C,L | low | conical/erect |
| | <i>Cercis canadensis</i> | Eastern Redbud | D | 25' | gold | sp-pink/rose | | C,L,S | low | rounded/umbrella |
| | <i>Lagerstroemia x 'Muskogee'</i> | Crape Myrtle | D | 25' | rd,gld,orange | su-lavender | | C,L,S | low | rounded/umbrella/vase |
| | <i>Koelreuteria bipinnata</i> | Chinese Flame Tree | D | 35' | bronze/gold | su,fl-yellow | | C,L,S | low | rounded/umbrella/vase |
| | <i>Pistachia chinensis</i> | Chinese Pistache | D | 35' | rd/orng/multi | sp- | | C,L,S | low | oval/rounded/umbrella |
| | <i>Prunus cerasifera</i> | Purple Leaf Plum | D | 35' | purple | sp- white/pink | flower | C,L,S | low | oval/vase/spreading |
| | <i>Pyrus calleryana</i> | Flowering Pear | D | 50' | rd/gold/purple | sp-white | | C,L,S | mod | conical/oval/spreading |
| 4' Planter | Genus/species | Common Name | Habit | Height | Fall color | Flower | Fragrant | Soil | RDP | Shape |
| | <i>Acer rubrum</i> | Red Maple | D | 50' | rd/orng/multi | sp-red | | C,L,S | mod | conical/oval |
| | <i>Aesculus carnea</i> | Red Horsechestnut | D | 35' | none | sp-red/rose | flower | C,L,S | low | rounded/umbrella |
| | <i>Arbutus 'Marina'</i> | Marina Madrone | E | 35' | green | fl-pink to rose | | C,L,S | low | rounded/umbrella/vase |
| | <i>Chitalpa tashkentensis</i> | Chitalpa | D | 35' | gold | sp,su,fl-pink | | L,S | low | umbrella/vase |
| | <i>Jacaranda mimosifolia</i> | Jacaranda | D/PD | 50' | lt. green | sp,su,fl-blue | | L,S | low | oval/umbrella/vase |
| | <i>Nyssa sylvatica</i> | Tupelo | D | 50' | rd/orng/multi | sp- | | C,L,S | low | conical/erect/spread |
| | <i>Podocarpus gracilior</i> | Fern Pine | E | 65' | gray green | sp- | | C,L,S | low | oval/rounded/erect |
| | <i>Quercus palustris</i> | Pin Oak | D | 65' | bronze/rd/gld | sp- | | C,L,S | low | conical/rounded/spreading |
| | <i>Tilia cordata</i> | Little-Leaf Linden | D | 50' | gold | su- yel/white | flower | C,L,S | mod | conical/oval/umbrella |
| | <i>Plantanus x acerifolia</i> | London Plane Tree | D | 70' | grn/bronze/gld | sp-win | | C,L,S | high | oval/rounded/umbrella |
| 5' Planter | Genus/species | Common Name | Habit | Height | Fall color | Flower | Fragrant | Soil | RDP | Shape |
| | <i>Acer saccharinum</i> | Silver Maple | D | 65' | rd/gld/orange | sp-grn/yellow | | C,L,S | mod | rounded/erect/spreading |
| | <i>Fagus sylvatica</i> | European Beech | D | 65' | bronze/none | sp- | | C,L,S | mod | conical/erect/spreading |
| 6' Planter | Genus/species | Common Name | Habit | Height | Fall color | Flower | Fragrant | Soil | RDP | Shape |
| | <i>Quercus robur 'Fastigiata'</i> | Upright English Oak | D | 65' | bronze/none | sp- | | L,S | mod | columnar/conical/erect |
| | <i>Quercus rubra</i> | Red Oak | D | 65' | rd/orng/multi | sp- | | C,L,S | mod | oval/umbrella/erect |
| | <i>Quercus suber</i> | Cork Oak | E | 65' | drk. green | sp- | | C,L,S | mod | oval/umbrella/erect |
| | <i>Ulmus parvifolia</i> | Chinese elm | E/PD | 65' | bronze/gold | su,fall- | | C,L,S | mod | oval/umbrella/spreading |
| | <i>Zelkova serrata</i> | Sawleaf Zelkova | D | 65' | bronze/rd/gld | sp- | | C,L,S | mod | umbrella/spreading |

Table Key

| |
|--|
| Habit: Evergreen or Deciduous |
| Height: Potential maximum height |
| Fall Color: Leaf color |
| Flower: Season of bloom – win (winter), sp (spring), su (summer), fl (fall) -- flower color |
| Fragrance: flower, leaf or bark |
| Soil: Clay, Loam or Sand |
| RPD: Root Damage Potential |
| Shape: Potential canopy form |

2' Planter Size

Genus/species: *Acer davadii*

Common Name: David's Maple



| Habit | Height | Fall color | Flower | Fragrance | Soil | RPD | Shape |
|-------|--------|--------------|---------------|-----------|------|-----|--------------|
| D | 35' | rd,gld,purpl | sp-grn/yellow | | C,L | low | oval/rounded |

Genus/species: *Acer ginnala*

Common Name: Amur Maple



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|--------------|-----------|-----------|-------|-----|----------------------|
| D | 25' | rd,gld,multi | sp-yellow | flower | C,L,S | low | oval,erect,spreading |

Genus/species: *Lagerstroemia fauriei*

Common Name: Crape Myrtle



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|----------|-----------|-------|-----|-------|
| D | 30' | none | su-white | | C,L,S | low | vase |

3' Planter Size

Genus/species: *Acer buergeranum* Common Name: Trident Maple



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|-----------|-----------|-------|-----|--------------|
| D | 25' | red/gold | sp-yellow | | C,L,S | low | oval/rounded |

Genus/species: *Carpinus betulus 'Fastigiata'* Common Name: European Hornbeam



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|--------|-----------|------|-----|---------------|
| D | 35' | red/gold | sp- | | C,L | low | conical/erect |

Genus/species: *Cercis canadensis*

Common Name: Eastern Redbud



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|--------------|-----------|-------|-----|------------------|
| D | 25' | gold | sp-pink/rose | | C,L,S | low | rounded/umbrella |

Genus/species: *Lagerstroemia x 'Muskogee'*

Common Name: Crape Myrtle



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|---------------|-------------|-----------|-------|-----|-----------------------|
| D | 25' | rd,gld,orange | su-lavender | | C,L,S | low | rounded/umbrella/vase |

Genus/species: *Koelreuteria bipinnata*

Common Name: Chinese Flame Tree



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|-------------|--------------|-----------|-------|-----|-----------------------|
| D | 35' | bronze/gold | su,fl-yellow | | C,L,S | low | rounded/umbrella/vase |

Genus/species: *Pistachia chinensis*

Common Name: Chinese Pistache



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|---------------|--------|-----------|-------|-----|-----------------------|
| D | 35' | rd/orng/multi | sp- | | C,L,S | low | oval/rounded/umbrella |

Genus/species: *Prunus cerasifera*

Common Name: Purple Leaf Plum



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|------------|----------------|-----------|-------|-----|---------------------|
| D | 35' | purple | sp- white/pink | flower | C,L,S | low | oval/vase/spreading |

Genus/species: *Pyrus calleryana*

Common Name: Flowering Pear



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|----------------|----------|-----------|-------|-----|------------------------|
| D | 50' | rd/gold/purple | sp-white | | C,L,S | mod | conical/oval/spreading |

4' Planter Size

Genus/species: *Acer rubrum*

Common Name: Red Maple



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|---------------|--------|-----------|-------|-----|--------------|
| D | 50' | rd/orng/multi | sp-red | | C,L,S | mod | conical/oval |

Genus/species: *Aesculus carnea*

Common Name: Red Horsechestnut



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|-------------|-----------|-------|-----|------------------|
| D | 35' | none | sp-red/rose | flower | C,L,S | low | rounded/umbrella |

Genus/species: *Arbutus 'Marina'*

Common Name: Marina Madrone



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|-----------------|-----------|-------|-----|-----------------------|
| E | 35' | green | fl-pink to rose | | C,L,S | low | rounded/umbrella/vase |

Genus/species: *Chitalpa tashkentensis*

Common Name: Chitalpa



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|---------------|-----------|------|-----|---------------|
| D | 35' | gold | sp,su.fl-pink | | L,S | low | umbrella/vase |

Genus/species: *Jacaranda mimosifolia*

Common Name: Jacaranda



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|---------------|--------|-----------|-------|-----|----------------------|
| D | 50' | rd/orng/multi | sp- | | C,L,S | low | conical/erect/spread |

Genus/species: *Nyssa sylvatica*

Common Name: Tupelo



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|---------------|--------|-----------|-------|-----|----------------------|
| D | 50' | rd/orng/multi | sp- | | C,L,S | low | conical/erect/spread |

Genus/species: *Podocarpus gracilior*

Common Name: Fern Pine



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|--------|-----------|-------|-----|--------------------|
| E | 65' | gray green | sp- | | C,L,S | low | oval/rounded/erect |

Genus/species: *Quercus palustris*

Common Name: Pin Oak



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|---------------|--------|-----------|-------|-----|-------------------------|
| D | 65' | bronze/rd/gld | sp- | | C,L,S | low | conical/rnded/spreading |

Genus/species: *Tilia cordata*

Common Name: Little-Leaf Linden



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|------------|---------------|-----------|-------|-----|-----------------------|
| D | 50' | gold | su- yel/white | flower | C,L,S | mod | conical/oval/umbrella |

Genus/species: *Plantanus x acerifolia*

Common Name: London Plane Tree



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|--------------------------|--------|-----------|-------|------|-----------------------|
| D | 70' | Med green/ bronze/gld | sp-win | | C,L,S | high | oval/rounded/umbrella |

*** Planting of London Plane Tree will be approved under the following two conditions:

1. The planter is 4' X 6' or larger
2. A root barrier is installed

5' Planter Size

Genus/species: *Acer saccharinum*

Common Name: Silver Maple



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|---------------|-------------------|-----------|-------|-----|-------------------------|
| D | 65' | rd/gld/orange | sp-grn/ yellow | | C,L,S | mod | rounded/erect/spreading |

Genus/species: *Fagus sylvatica*

Common Name: European Beech



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|-------------|--------|-----------|-------|-----|-------------------------|
| D | 65' | bronze/none | sp- | | C,L,S | mod | conical/erect/spreading |

6' Planter Size

Genus/species: *Quercus robur* 'Fastigiata'

Common Name: Upright English Oak



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|-------------|--------|-----------|------|-----|------------------------|
| D | 65' | bronze/none | sp- | | L,S | mod | columnar/conical/erect |

Genus/species: *Quercus rubra*

Common Name: Red Oak



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|-------|--------|---------------|--------|-----------|-------|-----|---------------------|
| D | 65' | rd/orng/multi | sp- | | C,L,S | mod | oval/umbrella/erect |

Genus/species: *Ulmus parvifolia*

Common Name: Chinese Elm



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|---------------|--------|-----------|-------|-----|--------------------|
| D | 65' | bronze/rd/gld | sp- | | C,L,S | mod | umbrella/spreading |

Genus/species: *Zelkova serrata*

Common Name: Sawleaf Zelkova



| Habit | Height | Fall color | Flower | Fragrance | Soil | RDP | Shape |
|----------|--------|---------------|--------|-----------|-------|-----|--------------------|
| D | 65' | bronze/rd/gld | sp- | | C,L,S | mod | umbrella/spreading |