

LANDSCAPE TREE LIST

The following list of trees was compiled to aid landscape architects and designers in selections for parking lot shading, street frontage and/or visual screening. Tree selection should be based on adaptability to site conditions. Individual constraints and characteristics are shown in columns on the attached list to help choose an appropriate tree:

| | |
|-----------------------|---|
| Planter width: | Recommended minimum planter width |
| Max. Height: | Approximate tree height near maturity |
| Growth: | Growth rate |
| Roots: | Root growth and depth |
| Soil: | Suggested soil type |
| Flowers/Fruit: | Significant flowers and/or fruit |
| D/E Type: | D= deciduous or E= evergreen |
| Remarks: | Characteristics such as fall color, diseases, and other miscellaneous information |

The species listed are not recommended for all situations; other species may be appropriate for a particular use. Consultation with a landscape architect, certified arborist, and/or nursery person is urged before any selections are made. Professional guidance is recommended to assure that the optimal design is achieved to meet the goals of each project. Proper planting procedures, adequate space, soil, water requirements, applicable County codes and ordinances, and maintenance programs should be ascertained at the start of the landscape project. It is important to note that proper planting procedures may include digging past any existing hardpan layer to assure deep rooting and proper growth.

NOTE: Symbols have been placed in front of certain species to indicate that particular tree's potential use for shade or screening purposes. An asterisk (*) indicates that the tree has characteristics appropriate for use as a screen tree. A plus mark (+) denotes that the tree has characteristics to provide good shade.



30- 35 FOOT DIAMETER TREES

SHADE CREDIT: 100% = 962 sq. ft. 75%=721 sq. ft. 50% = 481 sq. ft. 25% = 240 sq ft.

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers/ Fruit | D/E Type | Remarks |
|---|------------------|------------------|----------|-----------------------|----------------------|----------------------------|-------------|--|
| <i>Acer platanoides</i> <i>Norway Maple</i> | 8 feet | 50 -60 feet | Rapid | Medium | Moist Drained | Winged Pod | D | Yellow fall color, aggressive root system, susceptible to aphids, mistletoe |
| + <i>Acer rubrum</i> var. <i>Red Maple</i> | 6 feet | Up to 60 feet | Fast | Medium | Most Soils | Red Fruit | D | Red fall color |
| <i>Alnus rhombifolia</i> <i>White Alder</i> | 6 feet | 40 – 80 feet | Rapid | Shallow Invasive | Wet or Boggy | Insignifican t Cones | D | Does poorly in interior valley, smog intolerant, short-lived |
| <i>Betula nigra</i> <i>River Birch</i> | 8 feet | 50 feet | Fast | Medium | Most Soils | Catkins | D | Yellow fall color, pyramidal form when matures |
| * <i>Calocedrus decurrens</i> <i>Incense Cedar</i> | 8 feet | 50 – 90 feet | Slow | Deep Lateral | Most Soils Poor | Small Cones | E | Drought tolerant. Foliage is aromatic. |
| * <i>Cedrus deodora</i> <i>Deodar Cedar</i> | 8 feet | 80 feet | Fast | Deep | Most Soils | Cones | E | Needs adequate room, broad branching at base |
| <i>Celtis australis</i> <i>European Hackberry</i> | 6 feet | 80 feet | Moderate | Medium to Deep | Most Soils | Small Purple Berries | D | Susceptible to Asian Woolly Hackberry Aphid (infestation is messy around pavement) |
| <i>Celtis occidentalis</i> <i>Chinese Hackberry</i> | 6 feet | 60 feet | Moderate | Medium to Deep | Most Soils | Small Purple Berries | D | Susceptible to Asian Woolly Hackberry Aphid (infestation can be messy around pavement) |
| <i>Cinnamomum</i> <i>camphora</i> <i>Camphor Tree</i> | 10 feet | 50 feet | Slow | Surface to Shallow | Most Soils | - | E | Surface root problems. Turns yellow-green in winter. Prone to verticillium wilt. |
| Fraxinus pen. 'Marshall' <i>Marshall Green Ash</i> | 6 feet | 40 feet | Fast | Shallow | Most Soils | - | D | Seedless variety. Prone to insect and disease damage. |
| Fraxinus aug. 'Raywood' <i>Raywood Ash</i> | 6 feet | 35 feet | Fast | Medium | Most Soils | - | D | Purple-red fall color, prone to insect and disease damage. |
| Fraxinus uhdei <i>Evergreen Ash</i> | 6 feet | 70 feet | Fast | Medium | Most Well Drained | - | E | Prone to insect and disease damage. |

30-35 Foot Diameter Trees (con't)

100%= 962 SF 75%=721 SF 50%= 481 SF 25%= 240

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers Fruit | D/E Type | Remarks |
|---|------------------|----------------|---------------------|----------------------|---------------------------------|------------------|-------------|--|
| +Ginko biloba <i>Maidenhair Tree</i> | 8 feet | 50 feet | Slow | Deep | Most Soils | - | D | Bright yellow fall color, specify male variety only. |
| +Liriodendron tulipifera <i>Tulip Tree</i> | 8 feet | 80 feet | Moderate | Deep Spreading | Deep Moist | Brown Cone | D | Yellow-brown fall color. Unusual lyre shaped leaf has scale, susceptible to aphids (infestation can be messy on pavement). |
| +Magnolia grandiflora <i>Southern Magnolia</i> | 10 feet | 60 feet | Slow | Deep | Deep Moist | White Flower | E | Aggressive surface roots, requires plenty of space. |
| +Pistache chinensis <i>Chinese Pistache</i> | 6 feet | 60 feet | Slow | Deep | Most Soils | - | D | Orange/red fall color |
| +Platanus acerifolia <i>London Plane Tree</i> | 8 feet | 70 feet | Rapid | Shallow Spreading | Most Deep | - | D | Brown fall color. Prone to red spider, powdery mildew, anthracnose. Use 'Bloodgood' or 'Yarwood' varieties. Summer litter |
| +Quercus agrifolia <i>Coast Live Oak</i> | 8 feet | 70 feet | Moderate | Deep | Most dry or moist | Acorn | E | May have caterpillars in spring |
| Quercus coccinea <i>Scarlet Oak</i> | 8 feet | 60 feet | Rapid | Deep Spreading | Dry, Rocky Sandy | Acorn | D | Scarlet fall color |
| +Quercus ilex <i>Holly Oak</i> | 6 feet | 70 feet | Moderate | Deep | Most Soils | Acorn | E | May have caterpillars |
| +Quercus lobata <i>Valley Oak</i> | 8 feet | 70 feet | Moderate | Deep | Deep | Acorn | D | Native species, may develop oak galls, litters |
| +Quercus rubra <i>Red Oak</i> | 8 feet | 90 feet | Fast | Deep | Deep Moist | Acorn | D | Red/brown/orange fall color |
| +Quercus suber <i>Cork Oak</i> | 8 feet | 100 feet | Moderate | Deep | Most Soils, Well- Drained | Acorn | E | Cork bark surface texture |
| Quercus virginiana <i>Southern Live Oak</i> | 8 feet | 60 feet | Moderate to Fast | Deep | Deep, Moist | Acorns | E | Non-native |

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers Fruit | D/E Type | Remarks |
|--|---------------|-------------|----------------|-----------------|---|-----------------------------|----------|---|
| Sapium sebiferum <i>Chinese Tallow Tree</i> | 6 feet | 35 feet | Moderate | Medium | Deep soil to avoid root problems, Moist | Yellow Berries | D | Red/yellow/orange fall color, likes acid soil, surface roots, avoid near natural open space areas because of ability to propagate easily. |
| Schinus molle <i>Calif. Pepper Tree</i> | 8 feet | 40 feet | Rapid Invasive | Shallow | Most Soils Berries | Yellow Berries | E | Broad tree at maturity needs space. |
| Tilia americana <i>American Linden</i> | 6 feet | 60 feet | Fast | Deep | Fertile Moist | Small Nutlets | D | Susceptible to aphids- infestation can be messy around pavement |
| Ulmus parvifolia var. <i>Chinese Elm</i> | 6 feet | 50 feet | Rapid | Medium | Most Soils | - | Semi-E | Deciduous in colder winter areas, 'True Green', 'Drake', and 'Athena' are common cultivars. |
| +Umbellularia californica <i>California Bay</i> | 6 feet | 70 feet | Slow | Medium | Most Soils Moist | Yellow Clusters Olive Fruit | E | Drought tolerant |
| +Zelkova serrata <i>Zelkova</i> | 8 feet | 70 feet | Rapid | Shallow Surface | Most Soils | - | D | Red/yellow fall color. Elm Leaf Beetle. May be susceptible to Dutch Elm Disease. Can be top heavy; requires thinning. |

25– 30 FOOT DIAMETER TREES

SHADE CREDIT: 100% = 707 sq. ft. 75%=530 sq. ft. 50% = 354 sq. ft. 25% = 177 sq ft.

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers Fruit | D/E Type | Remarks |
|---|------------------|----------------|------------------|-----------------------|-----------------------|---|----------|--|
| <i>Alnus cordata</i> <i>Italian Alder</i> | 6 feet | 40 feet | Rapid | Shallow Invasive | Wet, Boggy | Cones | D | Roots more restrained than <i>Alnus rhombifolia</i> . |
| <i>Alnus glutinosa</i> <i>Black Alder</i> | 6 feet | 50 feet | Moderate | Shallow Invasive | Wet, Boggy | Cones | D | |
| <i>Ceratonia siliqua</i> <i>Carob Tree</i> | 8 feet | 40 feet | Moderate | Surface to Shallow | Most Soils | Pods | E | Messy pod drop, Specify male variety only. |
| <i>Eucalyptus nicholii</i> <i>Willow-leafed Peppermint</i> | 6 feet | 40 feet | Fast | Shallow Invasive | Light Drained | White Flower Capsules | E | Drought tolerant. |
| <i>Koelreuteria paniculata</i> <i>Golden Rain Tree</i> | 6 feet | 35 feet | Slow Moderate | Deep | Most Soils Drained | Yellow Flowers Capsules | D | Drought tolerant |
| <i>Liquidamber styraciflua</i> var. <i>American Sweet Gum</i> | 8 feet | 40 feet | Moderate | Shallow Surface | Deep Moist | 1-inch round burs | D | Crimson/yellow fall color, litters burs, cork twigs, invasive roots, can break pavement, site clearance problem, avoid pedestrian traffic areas. |
| <i>Nyssa sylvatica</i> <i>Topelo or Sour Gum</i> | 6 feet | 60 feet | Moderate | Deep | Most Soils Wet | White Flowers Small Plum- like | D | Scarlet/orange fall color, takes much or little water |
| <i>Pinus canariensis</i> <i>Canary Island Pine</i> | 6 feet | 60 feet | Rapid | Deep | Poor Sandy | 8-inch Cones | E | Conifer, blue green needles, drought, site clearance problem |
| <i>Pinus densiflora</i> <i>Japanese Red Pine</i> | 6 feet | 80 feet | Rapid | Deep | Poor Sandy | 2-inch Cones | E | Conifer, mites, site clearance problem |
| * <i>Pinus eldarica</i> <i>Mondell Pine</i> | 6 feet | 80 feet | Fast | Deep | Most Soils Dry | 4-inch Cones | E | Conifer, good for erosion control, site clearance problem |
| * <i>Pinus halepensis</i> <i>Allepo Pine</i> | 8 feet | 60 feet | Rapid | Deep | Most Dry | 4-inch Cones | E | Conifer, wind break, erosion control, site clearance problem |
| <i>Pinus ponderosa</i> <i>Ponderosa Pine</i> | 8 feet | 50 feet | Moderate | Deep | Most Soils | 3 to 5 inch Cones | E | Conifer, drought tolerant, site clearance problem |

25-30 Foot Diameter Trees (con't)

100%= 707 SF 75%=530 SF 50%= 354 SF 25%= 177 SF

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers Fruit | D/E Type | Remarks |
|---|---------------|-------------|------------------|-----------------|-------------------------|--|----------|---|
| *Pinus sylvestris <i>Scotch Pine</i> | 6 feet | 50 feet | Moderate | Deep | Poor Sandy | 2-inch Cones | E | Conifer, site clearance problem |
| +Pyrus calleryana 'Aristocrat' <i>Aristocrat Pear</i> | 6 feet | 50 feet | Moderate to Fast | Deep | Most Soils Moist | White Clusters | D | Scarlet red fall color, resists fire-blight |
| Quercus palustris <i>Pin Oak</i> | 6 feet | 50 feet | Rapid | Shallow Fibrous | Rich Most Soils Drained | Acorn | D | Scarlet fall color, no alkali soil, brown leaves hang on during winter, low-branching |
| Robinia ambigua 'Purple Robe' <i>Purple Locust</i> | 8 feet | 40 feet | Fast | Shallow | Most Soil | Purple Flower | D | Roots can be invasive, limbs susceptible to wind breakage |
| *Sequoia sempervirens <i>Coast Redwood</i> | 8 feet | 90 feet | Rapid | Shallow | Deep Moist | 1-inch Cones | E | Conifer, site clearance problem |
| Tilia cordata <i>Little Leaf Linden</i> | 6 feet | 50 feet | Fast | Deep | Fertile Moist | Yellow-white flowers, turning to nutlets | D | Flowers attract bees, aphid drip |

20– 25 FOOT DIAMETER TREES

SHADE CREDIT: 100% = 491 sq. ft. 75%=368 sq. ft. 50% = 246 sq. ft. 25% = 123 sq ft.

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers Fruit | D/E Type | Remarks |
|---|------------------|----------------|----------|---------|-----------------|---|-------------|--|
| Arbutus 'Marina' <i>Marina Strawberry Tree</i> | 6 feet | 30 feet | Slow | Medium | Well drained | Pink flowers/ yellow & red fruit | E | Fruit may attract birds |
| Carpinus betulus <i>European Hornbeam</i> | 6 feet | 40 feet | Slow | Medium | Most Soils | Winged Seeds | D | Yellow fall color, availability limited |
| *Geijera parvifolia <i>Australian Willow</i> | 6 feet | 30 feet | Moderate | Shallow | Well drained | Yellow Fragrant | E | Drought tolerant, low-branching |
| *Laurus nobilis 'Saratoga' <i>Sweet Bay</i> | 6 feet | 40 feet | Slow | Deep | Moist, Sandy | Yellow Flowers Black Berry | E | Specify standard form |
| Magnolia grandiflora 'Russet' | 8 feet | 40 feet | Moderate | Shallow | Well drained | White | E | Upright, narrow form |
| Olea Europaea 'Majestic Beauty' or 'Swan Hill' | 8 feet | 30 feet | Slow | Shallow | Wall drained | Black | E | Grey-green foliage; use cultivars that generate little or no fruit; standard trunk and multi-trunk forms available |
| Prunus serrulata 'Kwanzan' <i>Japanese Flowering Cherry</i> | 6 feet | 30 feet | Moderate | Medium | Well drained | Double Pink | D | Upright form that spreads with age |
| Prunus cerasifera var. <i>Purple Leaf Plum</i> | 6 feet | 30 feet | Fast | Medium | Most Soils | White to Pink | D | Purple leaves, top heavy (thin out), messy fruit drop dependent upon cultivar used |
| Zizyphus jujube <i>Jujube Chinese Date</i> | 6 feet | 30 feet | Moderate | Deep | Deep, Moist | Small Date | D | Some drought tolerance |

15– 20 FOOT DIAMETER TREES

SHADE CREDIT: 100% = 314 sq. ft. 75%=235 sq. ft. 50% = 157 sq. ft. 25% = 79 sq ft.

| Botanical Name and Common Name | Planter Width | Max. Height | Growth | Roots | Soil | Flowers Fruit | D/E Type | Remarks |
|--|------------------|----------------|---------------------|-------------------|----------------------|---|-------------|--|
| Acer palmatum <i>Japanese Maple</i> | 4 feet | 25 feet | Slow | Shallow | Moist Drained | Small Winged | D | Red fall color, afternoon shade, wilt, fungus, multiple trunk |
| Acer rubrum 'Bowhall' | 4 feet | 40 feet | Fast | Medium | Most Soils | Red Fruit | D | Red/Orange fall color, Narrow columnar form |
| Acer buergeranum <i>Trident Maple</i> | 4 feet | 25 feet | Moderate | Shallow | Moist Drained | Small Winged | D | Red fall color |
| Arbutus unedo <i>Strawberry Tree</i> | 5 feet | 25 feet | Slow | Medium | Well drained | White flower/ yellow & red fruit | E | Red-brown bark and limbs, fruit may attract birds |
| Cercis canadensis <i>Eastern Redbud</i> | 4 feet | 35 feet | Moderate | Medium | Most Soils | Red, Spring | D | Yellow/red fall color, drought tolerant, foliage can burn in summer winds. |
| Cercis occidentalis <i>Western Redbud</i> | 4 feet | 20 feet | Moderate | Medium | Most Soils | Red, Spring | D | Yellow to red fall color, usually a small tree, multiple trunk |
| Lagerstroemia indica var. <i>Crape Myrtle</i> | 4 feet | 25 feet | Slow | Shallow | Most Soils | Flower Colors Vary | D | Red /gold fall color, needs full sun all day, mildew, aphids. Many cultivars. |
| Maytenus boaria <i>Mayten Tree</i> | 4 feet | 30 feet | Slow to Moderate | Deep | Most Soils, Moist | - | E | Weeping habit, must have well drained soil |
| Pyrus calleryana 'Chanticleer' <i>Chanticleer Pear</i> | 5 feet | 30 feet | Moderate to Fast | Deep | Most Soils, Moist | White | D | Red fall color, narrow columnar form |
| *Pyrus kawakami <i>Evergreen Pear</i> | 4 feet | 30 feet | Moderate | Medium to Deep | Most Soils | White Flowers | Semi- E | Partially evergreen, susceptible to fire blight |
| Rhus lancea <i>African Sumac</i> | 4 feet | 25 feet | Slow | Medium | Most Drained | Small Red Berries | E | Drought tolerant, messy berries |
| +Prunus blireiana <i>Flowering Plum</i> | 4 feet | 25 feet | Moderate | Medium | Most Soils | Pink to Rose | D | Purple leaves, aphids |
| +Prunus c. 'Thundercloud' <i>Flowering Plum</i> | 4 feet | 20 feet | Moderate | Medium | Most Soils | Pink to White | D | Dark purple-coppery leaves, aphids |
| +Prunus c. 'Krauter Vesuvius' <i>Flowering Plum</i> | 4 feet | 20 feet | Moderate | Medium | Most Soils | Pink | D | Dark purple leaves, aphids, no fruit |