

LARGE-MATURING TREES

COMMON NAME, LATIN NAME	Growth Rate	Maximum Height	Shape	Screening	Fall Color	Flowers	Bark	Tolerates Poor Drainage	Diseases	Insects	Other	COMMENTS:
DECIDUOUS												
Ash, Green, <i>Fraxinus pennsylvanica</i>	F	50-80'	G					X	X	X		Do not plant in heavy clay soil; use named varieties.
Ash, White, <i>Fraxinus americana</i>	M	50-80'	G		X				X	X		Do not plant in heavy clay soil.
Bald-cypress, <i>Taxodium distichum</i>	M	50-80'	NP				X	X		X		Produces small leaves that do not need raking.
Birch, River, <i>Betula nigra</i>	F	40-70'	S				X	X				Subject to draught problems; may be multistem; good var. 'Heritage'.
Elm, Lacebark, <i>Ulmus pervifolia</i>	M	40-50'	G				X					Resistant to Dutch Elm Disease.
Ginkgo, <i>Ginkgo biloba</i>	S	50-80'	NP		X			X				Plant grafted male only; pest free; tolerates pollution.
Hackberry, <i>Celtis occidentalis</i>	F	40-60'	S				X	X				Witches broom can develop.
Maple, Red, <i>Acer rubrum</i>	F	40-60'	BP		X			X				Can clog sewer lines; some shallow roots; use named varieties.
Maple, Sugar, <i>Acer saccharum</i>	M	50-75'	BP		X							Best fall colors; good soils preferred; some shallow roots.
Oak, Laurel, <i>Quercus laurifolia</i>	M-F	60-80'	BP									Semi evergreen leaves; use var. 'Darlington'.
Oak, Northern Red, <i>Quercus rubra</i>	M-F	60-80'	BP		X			X				
Oak, Sawtooth, <i>Quercus acutissima</i>	M-F	35-70'	G								X	Holds leaves in winter; drops lots of nuts; toughest of the oaks.
Oak, Shumard, <i>Quercus shumardii</i>	M-F	40-80'	BP		X			X				Good dark red fall color.
Oak, Southern Red, <i>Quercus falcata</i>	M-F	70-80'	BP		X			X				
Oak, White, <i>Quercus alba</i>	S	70-80'	BP		X		X					May hold leaves; very long lived.
Oak, Willow, <i>Quercus phellos</i>	F	70-80'	BP									Majestic tree; most common tree in Charlotte.
Pagoda Tree, Japanese, <i>Sophora japonica</i> 'Regent'	F	40-75'	G			X						May develop cankers which can girdle limbs.
Planetree, London, <i>Platanus acerifolia</i>	F	60-100'	BP					X			X	Withstands harsh city conditions.
Sweetgum, <i>Liquidambar styraciflua</i>	S-M	60-75'	G		X						X	Fruit is not a litter problem in var. 'roundiloba'.
Tulip-Poplar, <i>Liriodendron tulipifera</i>	F	60-90'	N		X	X						Flowers best observed close up; needs lots of space; good soils preferred.
Zelkova, Japanese, <i>Zelkova serrata</i>	F	50-80'	V		X		X					Resistant to Dutch Elm Disease.
EVERGREEN												
Cedar, Deodar, <i>Cedrus deodara</i>	M-F	40-70'	BP	X								Subject to winter injury up to age 15 years.
Cypress, Leyland, <i>Cupressocyparis leylandii</i>	F	60-70'	C	X					X	X		Maintains good shape; excellent screening.
Hemlock, Canadian, <i>Tsuga canadensis</i>	M	40-70'	BP	X								Plant in partial shade and good soils.
Magnolia, Southern, <i>Magnolia grandiflora</i>	M-F	50-80'	BP	X		X					X	Drops large leaves in spring and summer.
Oak, Live, <i>Quercus virginiana</i>	S	40-80'	G	X							X	
Pine, Austrian, <i>Pinus nigra</i>	M	50-60'	BP	X								Tolerates city conditions.
Pine, Loblolly, <i>Pinus taeda</i>	F	40-60'	NP	X						X		Susceptible to pine beetles if not kept healthy.
Pine, Virginia, <i>Pinus virginiana</i>	M	15-40'	BP	X						X		Susceptible to pine beetles if not kept healthy.
Spruce, Norway, <i>Picea abies</i>	M-F	40-60'	NP									

Insure a minimum clearance of 25 feet between overhead distribution power lines and large-maturing tree species.

SMALL-MATURING TREES

COMMON NAME, LATIN NAME	Growth Rate	Maximum Height	Shape	Evergreen	Screening	Fall Color	Bark	Tolerates Poor Drainage	Diseases	Insects	Other	COMMENTS:
FLOWERING												
Cherry, Kwanzan <i>Prunus serrulata</i> 'Kwanzan'	S	20-25'	V						X			Good soils preferred
Cherry, Yoshino <i>Prunus yedoensis</i>	M	20-25'	S						X			Good soils preferred.
Crabapple <i>Malus</i> spp.	M-F	15-25'	S						X		X	Best varieties: 'Centurion', 'Snowdrift', 'Zum' and older vars
Crape myrtle <i>Lagerstroemia indica</i>	M	15-45'	S			X	X	X	X			Must be maintained in tree form; Best variety: 'Natchez'
Dogwood, Flowering <i>Cornus florida</i>	M-F	20-25'	S			X	X		X	X		Needs partial shade; good soils preferred.
Dogwood, Kousa <i>Cornus kousa</i>	S-M	15-30'	S			X	X					More hardy than Flowering Dogwood.
Hawthorne <i>Crataegus viridis</i> 'Winter King'	S-M	20-35'	G					X	X	X		Attractive fruit.
Hawthorne, Washington <i>Crataegus phaenopyrum</i>	S-M	25-30'						X	X	X		Attractive fruit.
Magnolia, Saucer <i>Magnolia soulangeana</i>	M	20-30'	G									
Pear, Aristocrat <i>Pyrus calleryana</i> 'Aristocrat'	F	30-40'	G			X						Very tolerant; best limb structure.
Pear, Capital <i>Pyrus calleryana</i> 'Capital'	F	30-40'	C			X						Very tolerant; most columnar.
Pear, Redspire <i>Pyrus calleryana</i> 'Redspire'	F	30-40'	NP			X						Very tolerant; more narrow than 'Bradford'.
Plum, Purpleleaf <i>Prunus cerasifera</i> 'Pissardii'	M-F	15-30'				X			X	X	X	Remains purple; produces fruit.
Redbud, Eastern <i>Cercis canadensis</i>	M	20-30'	S			X			X	X	X	Does well in full sun.
NON-FLOWERING												
Cherry-Laurel, Carolina <i>Prunus caroliniana</i>	M	20-30'	G	X	X							Good soils preferred.
Holly, Foster #2 <i>Ilex x attenuata</i> 'Foster'	M-F	15-25'	C	X	X							Multiple uses.
Holly, Savannah <i>Ilex x attenuata</i> 'Savannah'	F	20-30'	NP	X								Multiple uses.
Hornbeam, American <i>Carpinus caroliniana</i>	S	20-30'	S			X	X	X				Pest free; tolerates city conditions.
Hornbeam, European <i>Carpinus betulus</i>	S	40-60'	C		X		X	X				Pest free; tolerates city conditions.
Maple, Hedge <i>Acer campestre</i>	S	15-35'	G			X						
Maple, Japanese <i>Acer palmatum</i>	S	15-25'	S			X	X					
Myrtle, Wax <i>Myrica cerifera</i>	S-M	10-15'	S	X	X			X				

NOTES AND LEGEND:

- Where cultivars or varieties are listed, only that type should be used for tree ordinance compliance.
- Growth rate: S = Slow M = Medium F = Fast
- Shape: BP = Broadly Pyramidal G = Globular S = Spreading
C = Columnar NP = Narrowly Pyramidal V = Vase-Shaped
- Other species may be used if approved in advance by _____
- The following species cannot be used because they perform poorly:
 - Bradford Pear (*Pyrus calleryana* 'Bradford')
 - Eastern White Pine (*Pinus strobus*)
 - Siberian Elm (*Ulmus pumila*)
 - Silver Maple (*Acer saccharinum*)
- The following species are not recommended because they are marginal performers:
 - Catalpa (*Catalpa speciosa*)
 - Honeylocust (*Gleditsia triacanthos*)
 - Norway Maple (*Acer platanoides*)
 - Pin Oak (*Quercus palustris*)
 - Princess Tree (*Paulownia tomentosa*)
 - Scarlet Oak (*Quercus coccinea*)
 - Tree-of-Heaven (*Ailanthus altissima*)