

## LARGE TREES FOR NORTH CAROLINA

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Large trees are dominant features in the landscape. Many plans rely on trees for several design functions: to provide background, enclosure, define spaces, help reduce noise and unsightly views. Trees also provide needed shade, channel breezes, and break forceful winds. They also help the environment by filtering pollutants and exchanging oxygen for carbon dioxide.

When choosing trees, consider the growth rate and habit along with the overall form and texture of leaves and bark.

Properly selected and located trees can enhance the landscape setting and generally improve property values. Once growing, care should be exercised when working or playing around trees. Often, shade tree damage in the form of soil compaction, root damage, improper pruning, chemical and mechanical injury can cause irreversible harm to a tree. Remember, the tree's roots are found in the upper 12 to 15 inches of soil and can grow 40 to 50 percent beyond the drip line of a tree.

Botanical Name and	Hardine		Growth				Height	
COMMON NAME	Zone	Group	Rate	Exposure	Texture	Form	Spread	Landscape Remarks
Acer floridanum	6,7,8	D	med-fast	sun	medium	oval	40-50'	excellent shade tree and
FLORIDA MAPLE							20-25'	beautiful fall color
Acer platanoides	6,7,8	D	moderate	sun	coarse	dense-broad	<u>60-80</u> '	"Crimson King" red-purple
NORWAY MAPLE						spreading	50-70'	foliage
						branches		
Acer rubrum	6,7,8	D	rapid	sun/shade	medium	symmetrical	<u>40-50'</u>	beautiful habit and color
RED MAPLE						spreading	25-35'	"October Glory" - scarlet
						branches		foliage in fall
Acer saccharinum	6,7,8	D	rapid	sun	medium	upright	<u>60-80'</u>	fast growing shade tree but
SILVER MAPLE						open	50-75'	noted for weak branches and
						branches		shallow roots
Acer saccharum	6,7	D	slow	sun or	medium-	round top	50-75	excellent landscape tree
SUGAR MAPLE				part shade	coarse		30-40	casts very dense shade
Carya illinoensis	6,7,8	D	moderate	sun or	medium	irregular	60-100'	good shade tree for
PECAN	-			part shade		open	30-50'	"edible" landscape
						branches		1
Carya spp.	6,7,8	D	slow to	sun	medium	spreading	60-100'	infrequently propagated in
HICKORIES	, , -		moderate			crown	30-50'	nurseries but grows natively
Catalpa bignonoides	6,7,8	D	rapid	sun	coarse	thick trunk	30-50'	long-lived untidy tree;
SOUTHERN CATALPA	-,,,-					crooked	20-25'	interesting winter habit;
						branches	20 23	good habitat for fish bait
Cedrus deodora	6,7,8	Е	rapid	sun or	fine	pyramidal	30-50'	excellent screen tree for
DEODAR CEDAR	0,7,0	Ľ	rupid	part shade	line	pendelous	<u>20-30'</u>	Piedmont; good substitute
				part shade		branches	20-30	for white pines
Cryptomeria japonica	6,7,8	Е	medium	sun	fine	narrow	40-50'	rich green foliage
JAPANESE CRYPTOME		Б	meannin	suii	IIIIC	columnar	<u>40-30</u> 10-20'	interesting bark
Cunninghamia	6,7,8	Е	moderate	sun to	medium	pyramidal	50-60'	good green color during growing
anceolata	0,7,8	Б	to slow	shade	meanum	pyranndar	<u>30-00</u> 20-25'	season; tends to "brown out"
CHINAFIR			to slow	shade			20-25	inside as it matures
	679	Е	ranid		medium	nuramidal	50.70'	
Cupressocyparis	6,7,8	Е	rapid	sun	meatum	pyramidal	<u>50-70'</u>	fast growing can be size
leylandi							10-15'	controlled, several varieties -
LEYLAND CYPRESS	670		1				40.50	excellent screening plant
Diospyrus virginiana	6,7,8	D	slow	sun	coarse	slender	<u>40-50'</u>	very interesting bark-
PERSIMMON						irregular	20-30'	"edible landscape" plant
Fagus grandiflora	6,7,8	D	slow	sun	medium	dense-low	<u>60-80'</u>	large tree with very dense
BEECH						spreading	40-60'	shade; foliage often remains
		~					<i>co cc</i>	on tree in winter
Fraxinus americana	6,7	D	rapid	sun	medium	broad	<u>60-80'</u>	tolerates adverse conditions
WHITE ASH						rounded	50-70'	"Autumn Purple"
						top		- good fall color
Ginkgo biloba	6,7,8	D	slow	sun	medium	pyramidal	<u>40-70'</u>	plant male species of tree - very
MAIDENHAIR TREE						but later	20-40'	interesting shape of foliage;
						rounded		leaves fall rapidly in fall
Gelditsia triacanthos	6,7,8	D	moderate	sun	fine-	upright,	<u>50-75'</u>	many thornless varieties
HONEYLOCUST					medium	open with	25-40'	available at nurseries;
						maturity		excellent street tree
uniperus virginiana	6,7,8	Е	moderate	sun	fine	upright	<u>30-40'</u>	native evergreen-good for
EASTERN RED CEDAR			to rapid			with spread-	10-20'	evergreen screen-
			-			ing branches		interesting bark

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COMMON NAME	Zone	Group	Rate	Exposure	Texture	Form	Spread	Landscape Remarks
Liquidambar styraciflua	6,7,8	D	slow	sun or	medium	semi-	<u>60-100</u> '	excellent landscape tree but in a
SWEETGUM				part shade		conical	50-75	natural area; fruit is a litter
								problem in lawn areas
Liriodendron tulipifera	6,7,8	D	moderate	sun	coarse	cylindrical	<u>60-150'</u>	fast growing shade tree
TULIP TREE				to rapid		head	30-40'	branches are brittle
Magnolia grandiflora	7,8	Е	moderate	sun or	coarse	symmetrical	40-60'	should be planted where lower
SOUTHERN MAGNOL	IA		to rapid	part shade			25-30'	branches can grow to ground
Nyssa sylvatica	6,7,8	D	moderate	sun or	medium	open	40-60'	spectacular red autumn color
BLACK TUPELO-Black	c Gum			shade		irregular	20-30'	good native tree for NC
						width		
Paulownia tomentosa	6,7,8	D	rapid	sun	coarse	open crown	30-50'	best used as accent tree
EMPRESS TREE			-			spreading	20-30'	
						branches		
Pinus palustris	7,8	Е	rapid	sun	fine	open	80-100'	susceptible to ice and storm
LONGLEAF PINE	- , -		1			rounded top	25-40'	damage
						ascending bran		ummuge
Pinus strobus	6,7	Е	moderate	sun	fine	pyramidal	80-100'	good native tree for mountains,
WHITE PINE	0,7	L	moderate	Sun	me	pyraillidai	<u>30-40'</u>	in lower piedmont is marginal
Pinus sylvestris	6,7,8	Е	ranid	sun	medium but	pyramidal		good landscape form and
SCOTCH PINE	0,7,8	Е	rapid	Sull			<u>40-70'</u> 15-30'	
					later become		15-50	color
Pinus taeda	6,7,8	Е	ranid	sup to	more open fine	horizontal	70.00'	good windbreak - tolerant of
	0,7,8	Е	rapid	sun to	fille		<u>70-90'</u>	-
LOBLOLLY PINE				part shade		with ascend-	30-40'	poor soils
	670		• 1		<u> </u>	ing branches	40. 603	
Pistacia chinensis	6,7,8	D	rapid	sun	fine	rounded	40-60'	brilliant fall color
CHINESE PISTACHE	670	D	• 1			, ,	15-30'	
Platanus occidentalis	6,7,8	D	rapid	sun to	coarse	broad	<u>70-100'</u>	good shade tree - leaves have
SYCAMORE				part shade		branches	60-80'	a tendency to drop all
						open head		summer long
Populus nigra	6,7,8	D	fast	sun	medium	upright-	<u>40-70'</u>	fast growing-has many landscape
LOMBARDY POPLAR						narrow	10-12'	problems - short-lived
Quercus alba	6,7,8	D	slow	sun to	coarse	broad	80-100'	slow growing but excellent
WHITE OAK				part shade	medium	head	50-80	for any landscape
						thick trunk		
Quercus coccinea	6,7,8	D	rapid	sun	coarse	symmetrical	<u>60-80'</u>	good fall color-fast growing oak
SCARLET OAK					medium	round head	40-50	oak
Quercus nigra	6,7,8	D	rapid	sun to	medium	broad-oval	<u>50-75'</u>	matures into large shade
WATER OAK				part shade		round top	30-40	tree-yellowish fall foliage
Quercus palustris	6,7,8	D	rapid	sun to	medium	pyramidal	<u>60-80'</u>	holds leaves throughout
PIN OAK				part shade		low	40-50	winter
				-		branches		
Quercus phellos	6,7,8	D	moderate	sun	fine	conical in	60-80	often referred to as "Pin Oak"
WILLOW OAK						youth,	40-50	because of narrow leaves -
						develops		this is incorrect
						rounded crown	n	
Quercus virginiana	7,8	Е	slow	sun to	medium	wide	30-50'	excellent for coastal areas
LIVE OAK	7,0	L	510 1	part shade	meanum	spreading	<u>50-50</u> 50-80'	if protected from salt spray
LIVE OAK				part shade			50-00	n protected from sait spray
						branches		

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Salix babylonica WEEPING WILLOW	6,7,8	D	rapid	sun to part shade	fine	slender- pendulous branches	<u>30-50'</u> 20-40'	much landscape interest, avoid planting near sewers, water lines, etc.
Taxodium distichum BALD CYPRESS	6,7,8	D	slow	sun to part shade	fine	pyramidal	<u>50-100'</u> 20-30'	good tree but not used very much -excellent when planted near water
Tilia americana AMERICAN LINDEN	6,7,8	D	rapid	sun to part shade	medium	broad rounded crown	<u>60-75'</u> 45-60	useful as shade tree in urban areas
Tila cordata LITTLELEAF LINDEN	6,7,8	D	rapid	sun	medium	pyramidal spreading branches	<u>30-50</u> ' 25-40'	excellent street tree - transplants easily
Tsuga canadensis CANADIAN HEMLOCK	6,7	Е	rapid	shade to part shade	fine	pyramidal	<u>30-80'</u> 15-30'	excellent screen and prunes well
Tsuga caroliniana CAROLINA HEMLOCK	6,7	Е	rapid	part shade	fine	pyramidal	<u>30-70'</u> 20-25'	creates good screen for shady areas
Ulmus americana AMERICAN ELM	6,7,8	D	slow	sun	medium	broad umbrella- like crown	<u>75-125'</u> 60-120'	beautiful growth habit but Dutch Elm disease limits use
Zelkova serrata JAPANESE ZELKOVA	6,7,8	D	moderate to rapid	sun to part shade	medium to fine	rounded head	<u>50-60'</u> 40-50'	good shade tree and tolerant to urban conditions