

Drought Tolerant Deciduous Trees for JCC/Williamsburg Area

Scientific Name	Common Name	References	Hardiness Zone	Heat Zone	Sun Requirements	Avg Height	Avg Width	Native Y/N	Flower Y/N	Invasive Y/N	Characteristics
1 Acer buergerianum	Trident maple	1,6	5 thru 8		FS	20'	20'	N	N	N	Good street, small patio, lawn tree
2 A. campestre	Hedge maple	1,5	6 thru 8	8 thru 4	FS - PS	25'	35' - 40'	N	N	N	Durable, pest free
3 A. rubrum	Red maple	1,2	3 thru 9	9 thru 1	FS	25' - 50'	25' - 50'	Y	N	N	Good street tree, Y & R fall color
4 Carpinus betulus	European hornbeam	1,4,5,6	4 thru 8	8 thru 1	FS	50'	30' - 40'	N	N	N	Y fall color, slow growing, relatively pest free
5 C. caroliniana	American hornbeam	1,2	3 thru 9	9 thru 1	S	36'	20' - 30'	Y		N	Y & R fall color, good street tree
6 Carya alba	Mockernut hickory	2,3						Y		N	Yields quality lumber for skis, tool handles, wagons, gunstocks
7 Celtis laevigata	Sugar hackberry	1,2	5 thru 9		FS	60' - 80'	60' - 80'	Y	N	N	orange-red to blue-black fruit relished by birds
8 C. occidentalis	Common hackberry	1,5,6	2 thru 9	9 thru 1	FS	40' - 60'	40' - 60'	Y	N	N	Fruits eaten by numerous birds
9 Cercis canadensis	Eastern redbud	1,2,5	6 thru 9	9 thru 6	PS	25' - 30'	25' - 30'	Y	Y	N	Trunk divided close to ground forming a spreading, flat-topped to rounded crown
10 Chionanthus virginicus	Fringe tree	1,2,5	5 thru 9	9 thru 3	FS - PS	15' - 30'	15' - 30'	Y	Y	N	Relatively pest free
11 Cornus florida	Flowering dogwood	2,3	5 thru 8	8 thru 3	PS	25'	25' - 40'	Y	Y	N	R fall color, killed by Discular anthracnose fungus and borers
12 C. kousa	Chinese dogwood	1,4	5 thru 8	8 thru 3	PS	25'	25'	N	Y	N	Small, rounded tree, blooms 3 weeks after native, scarlet fall color
13 Crataegus spp.	Hawthorne	1,5	4 thru 7	7 thru 1	FS	15' - 25'	20' - 35'	Y	Y	N	Good street tree, orange or red berries
14 Diospyros virginiana	Persimmon	1,2,3	4 thru 9		FS	75'	20' - 35'	Y	N	N	Pest problems, especially borers
15 Fagus spp.	Beech	2,5	5 thru 7	7 thru 5	FS	50' - 70'	100' - 120'	Y	N	N	B & Y fall color, pest free
16 Fraxinus spp	Ash	2, 5	4 thru 9	9 thru 1	FS	50' - 60'	25' - 30'	Y	N	N	Yields quality lumber for furniture, tool handles, baseball bats
17 Ginkgo biloba	Ginkgo	1,5	5 thru 9	9 thru 2	FS	50' - 80'	30' - 40'	N	N	N	Y fall color, relatively pest free, odor from female tree
18 Gleditsia triacanthos	Honey locust	2,5	3 thru 7	7 thru 1	FS	30' - 70'	30' - 70'	Y	N	N	Thornless and seedless cultivars available
19 Juglans nigra	Black walnut	2,5	5 thru 9	9 thru 5	FS	50' - 75'	50' - 75'	Y	N	N	Alleopathic to other plants
20 Koeleruteria paniculata	Golden rain tree	1,5	5 thru 9	8 thru 5	FS	30' - 40'	30' - 50'	N	Y	N	Pest free
21 Liquidambar styraciflua	Sweetgum	1,2	6 thru 9	9 thru 1	FS	60' - 75'	45' - 60'	Y	N	N	P,Y,R fall color, fruit gumballs a hazard & maintenance problem
22 Liriodendron tulipifera	Tulip tree	1,2	4 thru 9		FS	80' - 120'	35' - 50'	Y	Y	N	Y fall color, pest free
23 Malus spp.	Crabapple	1,2,4,5	4 thru 8	8 thru 1	FS	15' - 25'	15' - 25'	N	Y	N	Cultivars available resistant to bacterial & fungus diseases
24 Ostrya virginiana	Ironwood	2,5	5 thru 9	9 thru 2	FS - PS	25' - 40'	20' - 30'	Y	N	N	Good for lawns, parks, golf courses, naturalized areas
25 Oxydendrum arboreum	Sourwood	1,2	4 thru 9		FS - PS	25' - 30'	20'	Y	Y	N	P,Y,R fall color, pest free
26 Pistacia chinensis	Chinese pistachio	1,5	6 thru 9	9 thru 6	FS	30' - 35'	25' - 35'	N	Y	N	R,O fall color
27 Platanus x acerifolia	London plane tree	1,5	6 thru 8	8 thru 3	FS - PS	70' - 100'	65' - 80'	Y	N	N	Winter bark color attractive, can cause allergic reaction
28 Platanus occidentalis	Sycamore	2,5	6 thru 8	8 thru 3	FS - PS	75' - 100'	75' - 100'	Y	N	N	Constantly dropping leaves, twigs and fruits
29 Populus spp.	Poplar	1,2	3 thru 8		FS	50' - 90'	50' - 90'	N	N	N	Wood brittle, roots clog drain tiles, sewers
30 Prunus cerasifera	Purple leaf plum	2,5	5 thru 9	9 thru 4	FS	15' - 30'	15' - 25'	N	Y	N	No landscape value, insect & disease prone
31 Pyrus calleryana	Bradford pear	1,5	5 thru 8	8 thru 2	FS	30' - 50'	20' - 35'	N	Y	N	P,Y,R fall color, weak crotch angles
32 Quercus alba	White oak	2,3	5 thru 9	9 thru 4	FS	50' - 80'	50' - 80'	Y	N	N	Durable, long lived, most handsome of oaks
33 Q. coccinea	Scarlet oak	1,2,3,4	5 thru 9	9 thru 4	FS	75'	40' - 50'	Y	N	N	R fall color
34 Q. falcata	Southern red oak	1,2,3	7 thru 9	9 thru 6	FS	70' - 80'	70' - 80'	Y	N	N	One of most common upland southern oaks
35 Q. macrocarpa	Bur oak	4,5	3 thru 9	9 thru 1	FS	60' - 80'	70' - 80'	Y	N	N	Massive, with picturesque, often corky branches
36 Q. palustris	Pin oak	1,2	4 thru 9	9 thru 5	FS	75'	25' - 40'	Y	N	N	Good for lawn, park, golf course, street
37 Q. phellos	Willow oak	1,2	6 thru 9	9 thru 5	FS	80' - 100'	40' - 60'	Y	N	N	B,R fall color, good for large area
38 Q. rubra	Northern red oak	1,2,5	5 thru 9	9 thru 4	FS	75'	60' - 75'	Y	N	N	R fall color
39 Q. stellata	Post oak	1,2,3	5 thru 9	9 thru 4	FS	40' - 50'	40' - 50'	Y	N	N	Not often planted, but preserve if on site
40 Q. velutina	Black oak	2,3	3 thru 9	9 thru 4	FS	50' - 60'	30' - 50'	Y	N	N	Grows on variety of soils but difficult to transplant
41 Sassafras albidum	Sassafras	1,2,3,4,5	3 thru 9	8 thru 4	FS - PS	30' - 60'	25' - 40'	Y	Y	N	P,Y,O,R fall color, leaves entire, mitten or 3-lobed
42 Sophora japonica	Japanese pagoda tree	1,5	5 thru 9	9 thru 5	FS	50' - 75'	50' - 75'	N	Y	N	Good in city conditions
43 Taxodium distichum	Bald cypress	1,2	4 thru 11		FS	50' - 70'	20' - 30'	Y	N	N	B fall color, pest free
44 Tilia americana	American linden	1,2	3 thru 8		FS - PS	60' - 80'	30' - 60'	Y	Y	N	Good in woods, not landscape
45 Zelkova serrata	Japanese zelkova	1,5	5 thru 9	9 thru 5	FS	50' - 80'	40' - 70'	N	N	N	R,P,Y,O fall color, pest free
Key: References											
1. Xeriscape Gardening: Water Conservation for the American Landscape, Authors: Connie Ellefson, Tom Stephens, and Doug Welsh											
2. Roadside Use of Native Plants: Ed. Bonnie Harper-Lore and Maggie Wilson, Aug. 2000											
3. Internet list of native plants used in landscaping from Virginia Department of Conservation and Recreation											
4. VCE - Guide to Waterwise Landscaping (Pub 426-616)											
5. The New York/Mid-Atlantic Gardener's Book of Lists, Authors: Bonnie Lee Appleton and Lois Trigg Chaplin											
6. Original plant list for the JCC Recreation Center project done around 1992 in cooperation with the VCE											
Key: Sun Requirements											
FS: Full Sun											
PS: Partial Shade											
Key: Characteristics - Fall Color											
B: Bronze											
O: Orange											
P: Purple											
R: Red											
Y: Yellow											