

Construction Tolerance Chart

General Tolerance: G = Good; M = Medium; P = Poor

Limiting Factors: I = physical injury; R = root zone impacts; P = pest complications; C = climactic tolerance

Common Name	Botanical Name	General Tolerance	Limiting Factors	Comments
ash, green	<i>Fraxinus pennsylvanica</i>	G	P	borers
ash, white	<i>Fraxinus americana</i>	M	I, R, C	
Atlantic white cedar	<i>Chamaecyparis thyoides</i>	G	C	
baldcypress	<i>Taxodium distichum</i>	G	R, C	
basswood	<i>Tilia americana</i>	M	I, R	
beech, American	<i>Fagus grandifolia</i>	P	I, R, P, C	
birch, black/sweet	<i>Betula lenta</i>	M	I, C	
birch, river/red	<i>Betula nigra</i>	G		
blackgum	<i>Nyssa sylvatica</i>	G		
black locust	<i>Robinia pseudoacacia</i>	G	P, C	weak wood
black walnut	<i>Juglans nigra</i>	P	I, R, C	allelopathic
bigtooth aspen	<i>Populus grandidentata</i>	P	I, R, C	weak wood
butternut/white walnut	<i>Juglans cinerea</i>	P	I, R, C	weak wood, allelopathic
catalpa, southern	<i>Catalpa bignonioides</i>	G	R	
cherry, black	<i>Prunus serotina</i>	M	I, P	eastern tent caterpillar
crabapple species	<i>Malus spp.</i>	M	I, P, C	fire-blight, scab
cryptomeria, Japanese	<i>Cryptomeria japonica</i>	G		
cucumber tree	<i>Magnolia acuminata</i>	M	I	
dogwood, flowering	<i>Cornus florida</i>	M	I, P, C	Discula anthracnose
downy serviceberry	<i>Amelanchier arborea</i>	M	I, R, C	
eastern hophornbeam	<i>Ostrya virginiana</i>	M	R, C	
eastern redcedar	<i>Juniperus virginiana</i>	G		
elm, American	<i>Ulmus americana</i>	M	P	Dutch elm disease
elm, Chinese	<i>Ulmus parvifolia</i>	M	R, P	
elm, Siberian	<i>Ulmus pumila</i>	M	C, P	weak wood
elm, slippery	<i>Ulmus rubra</i>	M	R, P, C	
fringetree	<i>Chionanthus virginicus</i>	M	I, R, C	
ginko/maiden-hair tree	<i>Ginko biloba</i>	G		
hemlock, eastern	<i>Tsuga canadensis</i>	P	I, R, P, C	woolly adelgid
hickory, butternut	<i>Carya cordiformis</i>	M	R, C	
hickory, mockernut	<i>Carya tomentosa</i>	M, P	R, C	
hickory, pignut	<i>Carya glabra</i>	M	R, C	
hickory, shagbark	<i>Carya ovata</i>	M, P	R, C	

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holly, American	<i>Ilex opaca</i>	G		
honeylocust	<i>Gleditsia triacanthos</i>	G	I, P	
hornbeam, American	<i>Carpinus caroliniana</i>	M	R, C	
magnolia, southern	<i>Magnolia grandiflora</i>	M	I, C	
magnolia, sweetbay	<i>Magnolia virginiana</i>	G	C	
maple, Norway	<i>Acer platanoides</i>	M, G	I, R	invasive exotic, allelopathic
maple, red	<i>Acer rubrum</i>	G		weak wood
maple, silver	<i>Acer saccharinum</i>	P	I, R, P, C	weak wood
maple, sugar	<i>Acer saccharum</i>	P	C	
oak, black	<i>Quercus velutina</i>	G	R	
oak, chestnut	<i>Quercus prinus</i>	G, M	R, C	
oak, pin	<i>Quercus palustris</i>	G		iron chlorosis in alkaline soil
oak, laurel	<i>Quercus laurifolia</i>	G	R	
oak, northern red	<i>Quercus rubra</i>	G, M	R, C	
oak, post	<i>Quercus stellata</i>	G	R	
oak, sawtooth	<i>Quercus acutissima</i>	G	R	
oak, scarlet	<i>Quercus coccinea</i>	G	R	
oak, southern red	<i>Quercus falcata</i>	G	R, C	
oak, swamp chestnut	<i>Quercus michauxii</i>	G	R, C	
oak, swamp white	<i>Quercus bicolor</i>	G	R, C	
oak, water	<i>Quercus nigra</i>	G	R, C	
oak, white	<i>Quercus alba</i>	G, M	R, C	
oak, willow	<i>Quercus phellos</i>	G, M	R, C	
persimmon, common	<i>Diospyros virginiana</i>	G	P	
pine, Austrian	<i>Pinus nigra</i>	G, M	P	
pine, eastern white	<i>Pinus strobus</i>	M	I, R, P, C	weak wood
pine, loblolly	<i>Pinus taeda</i>	G	C	
pine, pitch	<i>Pinus rigida</i>	G		
pine, scotch	<i>Pinus sylvestris</i>	G	C	
pine, shortleaf	<i>Pinus echinata</i>	M	P	
pine, Virginia	<i>Pinus virginiana</i>	M	C	weak wood, wind-throw hazard
plum, American	<i>Prunus americana</i>	M	I, R, P	
redbud, eastern	<i>Cercis canadensis</i>	M	R, C	

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sassafrass	<i>Sassafrass albidum</i>	G		weak wood
silverbell, Carolina	<i>Halesia carolina</i>	M	I, R, C	
snowbell, American	<i>Styrax americana</i>	M	I, R	
sourwood	<i>Oxydendrum arboreum</i>	P	I, R, P, C	
spruce, Colorado blue	<i>Picea pungens</i>	M	R, C	
stewartia, Virginia	<i>Stewartia malacodendron</i>	G		
sweetgum	<i>Liquidambar styraciflua</i>	G	R	
sycamore, American	<i>Platanus occidentalis</i>	M	P, C	anthracnose
tulip poplar/tulip tree	<i>Liriodendron tulipifera</i>	P	I, R, C	weak wood
yellowwood	<i>Cladrastis kentukea</i>	P	I, R, P, C	

Source: Fairfax County, Virginia and M-NCPPC Prince George's Planning Department