

20-Yr Tree Canopy Coverage Worksheet

For determining compliance with Section 61-10.C of the Chesapeake Bay Preservation Ordinance

Tree Species	Common Name	Planting size Height (ft.) caliper (in.)	Spread at Planting (ft.)	Canopy Size	20 year coverage (sq. ft.)	Native to Region	Coverage bonus* (sq. ft)
Deciduous Trees							
<i>A. rubrum</i>	red maple	2-2 1/2 in	5-7	Large	315	X	393.75
<i>Amelanchier arborea</i>	downy serviceberry	6-7 ft	4-6	Small-Medium	110	X	137.5
<i>A. canadensis</i>	shadblow serviceberry	6-7 ft	4-6	Small-Medium	110	X	137.5
<i>A. laevis</i>	Allegheny serviceberry	6-7 ft	4-6	Small-Medium	110	X	137.5
<i>Asimina triloba</i>	pawpaw	≥1 in	3-5	Medium	175	X	218.75
<i>Betula nigra</i>	river birch	8-10 ft	5-7	Medium	175	X	218.75
<i>Carpinus betulus</i> 'Fastigiata'	Fastigiata' European hornbeam	2-2 1/2 in	2-3	Small	50		
<i>C. caroliniana</i>	American hornbeam	≥1 in	3-5	Small-Medium	110	X	137.5
<i>Carya cordiformis</i>	bitternut hickory	≥1 in	2-3	Medium-Large	250	X	312.5
<i>C. glabra</i>	pignut hickory	≥1 in	2-3	Medium-Large	250	X	312.5
<i>C. tomentosa</i>	mockernut hickory	≥1 in	2-3	Medium-Large	250	X	312.5
<i>Celtis laevigata</i>	sugarberry	2-2 1/2 in	5-7	Medium-Large	250	X	312.5
<i>C. occidentalis</i>	common hackberry	2-2 1/2 in	5-7	Large	315	X	393.75
<i>Cephalanthus occidentalis</i>	buttonbush	6-7 ft	2-3	Small-Medium	110	X	137.5
<i>Cercidiphyllum japonicum</i>	katsuratree	8-10 ft; 2-2 1/2 in	2-3	Medium	175		
<i>Cercis canadensis</i>	eastern redbud	≥1 in	2-3	Medium	175	X	218.75
<i>Chionanthus virginicus</i>	fringetree	6-7 ft	2-3	Small-Medium	110	X	137.5
<i>Cladrastis lutea</i>	American yellowwood	2-2 1/2 in	3-5	Medium-Large	250		
<i>Cornus alternifolia</i>	pagoda dogwood	≥1 in	2-3	Small-Medium	110	X	137.5
<i>C. florida</i>	flowering dogwood	≥1 in	2-3	Medium	175	X	218.75
<i>C. kousa</i>	kousa dogwood	≥1 in	2-3	Medium	175		
<i>C. mas</i>	Cornelian-cherry	≥1 in	2-3	Small-Medium	110		
<i>Cotinus coggygria</i>	smoketree	6-7 ft	3-4	Small-Medium	110		
<i>Crataegus crus-galli</i>	cockspur hawthorn	≥1 in	3-4	Small-Medium	110	X	137.5
<i>C. phaenopyrum</i>	Washington Hawthorn	≥1 in	3-4	Small-Medium	110	X	137.5
<i>C. viridis</i>	Green hawthorne	≥1 in	3-4	Small-Medium	110	X	137.5
<i>Diospyros virginiana</i>	common persimmon	2-2 1/2 in	4-6	Medium	175	X	218.75
<i>Fagus grandifolia</i>	American beech	1 3/4 - 2 in	4-5	Large	315	X	393.75
<i>F. sylvatica</i>	European beech	1 3/4 - 2 in	4-5	Medium-Large	250		
<i>Ginkgo biloba</i>	ginkgo, maidenhair tree	2-2 1/2 in	3-5	Medium	175		
<i>Gleditsia triacanthos</i>	honeylocust	2-2 1/2 in	3-5	Medium-Large	250		
<i>Gymnocladus dioicus</i>	Kentucky coffeetree	2-2 1/2 in	5-7	Medium	175		
<i>Halesia carolina</i>	Carolina silverbell	6-7 ft	3-4	Small-Medium	110		
<i>Hamamelis virginiana</i>	Witchhazel	4-5 ft	2-3	Small	50	X	62.5
<i>Juglans nigra</i>	black walnut	2-2 1/2 in	5-7	Large	315	X	393.75
<i>Lagerstoemia indica</i>	crepe-myrtle	6-7 ft	3-4	Small-Medium	110		
<i>Liquidamber styraciflua</i>	sweetgum	2-2 1/2 in	5-7	Medium	250	X	312.5
<i>Liriodendron tulipifera</i>	tuliptree	2-2 1/2 in	5-7	Medium	250	X	312.5
<i>Magnolia x soulangiana</i>	saucer magnolia	6-7 ft	3-4	Small-Medium	110		

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<i>Magnolia stellata</i>	star magnolia	6-7 ft	3-4	Small	50		
<i>M. virginiana</i>	sweetbay	6-7 ft	3-4	Small-Medium	110	X	137.5
<i>Malus coronaria</i>	sweet crabapple	≥1 in	2-3	Small-Medium	110	X	137.5
<i>M. angustifolia</i>	southern crabapple	≥1 in	2-3	Small-Medium	110	X	137.5
<i>Metasequoia glyptostroboides</i>	dawn redwood	8-10 ft	3-4	Medium-Large	250		
<i>Morus rubra</i>	red mulberry	≥1 in	2-3	Medium-Large	250	X	312.5
<i>Nyssa sylvatica</i>	blackgum	2-2 1/2 in	3-5	Medium-Large	250	X	312.5
<i>Ostrya virginiana</i>	eastern hophornbeam	≥1 in	2-3	Small-Medium	110	X	137.5
<i>Oxydendron arboreum</i>	sourwood	≥1 in	3-4	Medium	175		
<i>Parrotia persica</i>	Persian ironwood	≥1 in	3-4	Small-Medium	110		
<i>Platanus x acerifolia</i>	London planetree	2-2 1/2 in	5-7	Medium-Large	250		
<i>P. occidentalis</i>	American sycamore	2-2 1/2 in	5-7	Large	315	X	393.75
<i>Populus grandidentata</i>	bigtooth aspen	2 - 2 1/2 in	3-5	Large	315	X	393.75
<i>P. deltoides</i>	eastern cottonwood	2 - 2 1/2 in	3-5	Large	315	X	393.75
<i>Prunus americana</i>	American plum	≥1 in	3-4	Small	50	X	62.5
<i>P. x incamp 'Okame'</i>	Okame' cherry	≥1 in	3-4	Small-Medium	110		
<i>P. serrulata 'Kwansan'</i>	Kwansan cherry	≥1 in	3-4	Small-Medium	110		
<i>P. sargentii</i>	Sargent cherry	≥1 in	3-4	Small-Medium	110		
<i>P. serotina</i>	black cherry	1 3/4- 2 in	3-4	Medium-Large	250	X	312.5
<i>P. x yedoensis</i>	Yoshino cherry	≥1 in	3-4	Small-Medium	110		
<i>Quercus alba</i>	white oak	1 3/4 - 2 in	4-5	Large	315	X	393.75
<i>Q. bicolor</i>	swamp white oak	1 3/4 - 2 in	4-5	Large	315	X	393.75
<i>Q. coccinea</i>	scarlet oak	1 3/4 - 2 in	4-5	Large	315	X	393.75
<i>Q. falcata</i>	southern red oak	1 3/4 - 2 in	4-5	Large	315	X	393.75
<i>Q. laurifolia</i>	laurel oak	1 3/4 - 2 in	3-5	Medium	175		
<i>Q. hemisphaerica</i>	Darlington oak	1 3/4 - 2 in	3-5	Medium-Large	250		
<i>Q. marilandica</i>	blackjack oak	1 3/4 - 2 in	3-5	Small-Medium	110	X	137.5
<i>Q. palustris</i>	pin oak	2-2 1/2 in	5-7	Medium-Large	250	X	312.5
<i>Q. phellos</i>	willow oak	2-2 1/2 in	3-5	Medium-Large	250	X	312.5
<i>Q. montana</i>	chestnut oak	1 3/4 - 2 in	3-5	Medium-Large	250	X	312.5
<i>Q. rubra</i>	northern red oak	2-2 1/2 in	4-5	Large	315	X	393.75
<i>Q. stellata</i>	post oak	1 3/4 - 2 in	3-5	Medium-Large	250	X	312.5
<i>Q. velutina</i>	black oak	2 - 2 1/2 in	4-5	Medium-Large	250	X	312.5
<i>Rhus typhina</i>	staghorn sumac	6-7 ft	2-3	Small-Medium	110	X	137.5
<i>Salix nigra</i>	black willow	2-2 1/2 in	3-5	Medium-Large	250	X	312.5
<i>Sassafras albidum</i>	sassafras	≥1 in	3-5	Medium	175	X	218.75
<i>Stewartia koreana</i>	Korean stewartia	6-7 ft	2-3	Small-Medium	110		
<i>S. ovata</i>	mountain camellia	6-7 ft	2-3	Small-Medium	110		
<i>S. psuedocamellia</i>	Japanese stewartia	6-7 ft	2-3	Small-Medium	110		
<i>Styrax japonicus</i>	Japanese snowbell	6-7 ft	2-3	Small-Medium	110		
<i>Syringa reticulata</i>	Japanese tree lilac	≥1 in	2-3	Small-Medium	110		
<i>Taxodium distichum</i>	baldcypress	8-10 ft	3-4	Medium-Large	250		
<i>Tilia americana</i>	American basswood	2-2 1/2 in	3-4	Large	315	X	393.75
<i>T. cordata</i>	littleleaf linden	2-2 1/2 in	3-4	Medium	175		
<i>Ulmus americana</i>	American elm	2-2 1/2 in	3-5	Large	315	X	393.75
<i>U. rubra</i>	slippery elm	2-2 1/2 in	3-5	Medium-Large	250	X	312.5

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Tree Species	Common Name	Planting size Height (ft.) caliper (in.)	Spread at Planting (ft.)	Canopy Size	20 year coverage (sq. ft.)	Native to Region	Coverage bonus* (sq. ft)
Evergreen trees							
<i>Abies concolor</i>	white fir	6-7 ft	2-4	Small-Medium	110		
<i>Cedrus atlantica</i> 'Glauca'	blue atlas cedar	6-7 ft	3-4	Small-Medium	110		
<i>C. deodara</i>	deodar cedar	6-7 ft	3-4	Medium	175		
<i>Chamaecyparis obtusa</i>	Hinoki falsecypress	6-7 ft	2-3	Small	50		
<i>C. pisifera</i> 'Plumosa'	Sawara cypress	6-7 ft	2-3	Small	50		
<i>Cryptomeria japonica</i>	Japanese cedar	6-7 ft	3-5	Small-Medium	110		
<i>Ilex x attenuata</i> 'Fosteri'	Foster's holly	6-7 ft	2-4	Small-Medium	110		
<i>I. x</i> 'Nellie R. Stevens'	Nellie R. Stevens holly	6-7 ft	3-5	Small-Medium	110		
<i>I. cornuta</i> 'Burford'	Burford holly	6-7 ft	2-4	Small-Medium	110		
<i>I. opaca</i>	American holly	6-7 ft	2-4	Medium	175	X	218.75
<i>Juniperus virginiana</i>	eastern redcedar	6-7 ft	2-3	Small-Medium	110	X	137.5
<i>Magnolia grandifolia</i>	southern magnolia	8-10 ft	5-7	Large	315		
<i>Picea glauca</i>	white spruce	6-7 ft	3-4	Small-Medium	110		
<i>P. omorika</i>	Serbian spruce	6-7 ft	3-4	Small-Medium	110		
<i>P. pungens</i>	Colorado blue spruce	6-7 ft	3-4	Small-Medium	110		
<i>Pinus bungeana</i>	lacebark pine	6-7 ft	3-5	Small-Medium	110		
<i>P. echinata</i>	shortleaf pine	6-7 ft	3-5	Medium	175	X	218.75
<i>P. nigra</i>	Austrian black pine	6-7 ft	3-5	Medium	175		
<i>P. rigida</i>	pitch pine	6-7 ft	3-5	Medium	175	X	218.75
<i>P. strobus</i>	eastern white pine	6-7 ft	3-5	Medium	175		
<i>P. taeda</i>	loblolly pine	6-7 ft	3-5	Medium	175	X	218.75
<i>P. virginiana</i>	Virginia pine	6-7 ft	3-5	Medium	175	X	218.75
<i>Thuja occidentalis</i>	arborvitae, northern white cedar	6-7 ft	3-4	Small	50		
<i>T. orientalis</i>	Oriental arborvitae	6-7 ft	3-4	Small	50		
<i>Tsuga canadensis</i>	eastern hemlock	6-7 ft	3-5	Medium	175	X	218.75
NOTES							
Estimated canopy at 20 years has been divided into 5 categories:							
	Large	315 sq. ft.					
	Medium - Large	250 sq. ft.					
	Medium	175 sq. ft.					
	Small - Medium	110 sq. ft.					
	Small	50 sq. ft.					
Minimum spacing requirements:							
	Large, Medium-Large	20 ft.					
	Medium	15 ft.					
	Small - Medium, Small	10 ft.					
Tree canopy coverage bonuses available:							
	Existing Large, Medium-Large, Medium Trees only	2					
	*New native trees, outside the RPA	1.25					
Diversity requirement for Medium - Large and Large trees:							
	Maximum 3 of each species	if ≤10 Trees					
	At least 5 species, evenly distributed	if >10 Trees					
1. Tree species listed as invasive on the Arlington County Invasive Plant List are not eligible for tree canopy coverage credit.							
2. Due to concerns about the spread Emerald Ash Borer, ash trees (<i>Fraxinus</i> sp.) will not be approved for canopy credit in Arlington County.							
3. American Elm selections must be Dutch Elm disease resistant							