

Charlottesville's Master Tree List

2/2/2021

City regulation requires 2" minimum caliper for medium and large canopy trees

<u>Botanical Name</u>	<u>Common Name</u>	Approved Street Tree	Entry Corridor Tree**	Min. Caliper or Height (Min. Cal./Ht.)	Notes	Height of Planting (X)	Growth over 10 years* (Y)	Total Height in 10 Years X + Y = T	Ratio of Width to Height [R]	Total Width in 10 years [R] T = D	Area of Canopy (D) ² *3.14/4=
Large Canopy Trees (50'-70')											
Shade and/or Street Trees											
Native to region, preferred											
<i>Acer saccharum</i>	Sugar Maple			(2")		11	10	21	0.75	15.8	195
<i>Carya glabra</i>	Pignut Hickory			(2")	Availability may be limited	11	5	16	0.55	8.8	61
<i>Carya ovata</i>	Shagbark Hickory			(2")		11	5	16	0.6	9.6	72
<i>Catalpa speciosa</i>	Northern Catalpa	0		(2")		10	10	20	0.7	14.0	154
<i>Fagus grandifolia</i>	American Beech			(2")		10	10	20	0.85	17.0	227
<i>Gymnocladus dioicus</i>	Kentucky Coffeetree			(2")		10	25	35	0.77	27.0	570
<i>Gymnocladus dioicus</i> 'Espresso'	Seedless Kentucky Coffeetree	0	0	(2")	Stately Manor' - seedless alternate cv.	10	25	35	0.77	27.0	570
<i>Liquidambar styraciflua</i>	Sweetgum			(2")		12	15	27	0.66	17.8	249
<i>Liquidambar styraciflua</i> 'Happidaze'	Low Fruiting Sweetgum	0	0	(2")	Cherokee', 'Rotundiloba' - low fruit alt cvs.	12	15	27	0.66	17.8	249
<i>Liriodendron tulipifera</i>	Tuliptree or Tulip Poplar		0	(2")		12	25	37	0.6	22.2	387
<i>Magnolia acuminata</i>	Cucumber tree Magnolia			(2")		10	20	30	0.6	18.0	254
<i>Platanus occidentalis</i>	Sycamore			(2")	Pollution intolerant, anthracnose	12	20	32	0.76	24.3	464
<i>Quercus alba</i>	White Oak	0		(2")		10	12	22	0.8	17.6	243
<i>Quercus bicolor</i>	Swamp White Oak	0	0	(2")	Large acorns produced every 3-5 years	11	20	31	0.63	19.5	299
<i>Quercus coccinea</i>	Scarlet Oak	0	0	(2")		11	20	31	0.7	21.7	370
<i>Quercus falcata</i>	Southern Red Oak	0	0	(2")		10	20	30	0.7	21.0	346
<i>Quercus palustris</i>	Pin Oak	0		(2")	Low limbs in youth need pruning	11	20	31	0.7	21.7	370
<i>Quercus phellos</i>	Willow Oak	0	0	(2")	Small acorns	11	20	31	0.6	18.6	272
<i>Taxodium distichum</i>	Bald Cypress	0	0	(2")		10	15	25	0.5	12.5	123
<i>Tilia americana</i>	American Linden	0		(2")		11	15	26	0.6	15.6	191
<i>Ulmus americana</i> 'Jefferson'	Jefferson American Elm	0	0	(2")	Valley Forge' - alternate DED res. cvs.	10	15	25	0.9	22.5	397
Limit Use (<15% of tree list)											
<i>Quercus rubra</i>	Northern Red Oak	0		(2")	Succeptible to leaf scorch, pending threats	11	20	31	0.75	23.3	424
Non invasive, exotic species											
<i>Aesculus hippocastanum</i>	Common Horsechestnut			(2")	Baumannii' fruitless cv.	12	16	28	0.9	25.2	499
<i>Ginkgo biloba</i>	Ginkgo	0		(2")	Male cultivars only	11	10	21	0.5	10.5	87
<i>Metasequoia glyptostroboides</i>	Dawn Redwood			(10'-12' ht.)		10	25	35	0.25	8.8	60
<i>Platanus x acerifolia</i>	Planetree	0	0	(2")	'Bloodgood', 'Columbia' anthracnose res. cvs.	11	20	31	0.76	23.6	436
<i>Quercus macrocarpa</i>	Bur Oak	0		(2")	Large acorns produced every 3-5 years	11	20	31	0.7	21.7	370
<i>Quercus shumardii</i>	Shumard Oak			(2")		11	20	31	0.66	20.5	329
<i>Tilia tomentosa</i>	Silver Linden	0		(2")	Green Mountain' cv.	10	15	25	0.75	18.8	276
<i>Ulmus</i> 'Morton' or ACCOLADE	Accolade Elm	0	0	(2")	'Morton Stalwart' alt. cv.	10	15	25	0.85	21.3	354
*All growth rates require a minimum planting volume of 400cu ft of uncompacted soil per tree. Trees with less than this amount will grow at reduced rates.											
** Preferred Entry Corridor canopy species in orange, secondary species in yellow											

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Botanical Name	Common Name	Approved Street Tree	Entry Corridor Tree**	Min. Caliper or Height (Min. Cal./Ht.)	Notes	Height of Planting (X)	Growth over 10 years* (Y)	Total Height in 10 Years X + Y = T	Ratio of Width to Height [R]	Total Width in 10 years [R] T = D	Area of Canopy (D) ² *3.14/4=
Medium Canopy Trees (30'-50')											
Native to region, preferred											
<i>Betula nigra</i>	River Birch			(10'-12' ht.)	Heritage', 'Dura Heat' viable cvs.	10	15	25	0.9	22.5	397
<i>Catalpa bignonioides</i>	Southern Catalpa			(6'-8' ht.)		7	15	22	0.8	17.6	243
<i>Celtis occidentalis</i>	Hackberry	0	0	(2")		10	20	30	0.75	22.5	397
<i>Cladrastis kentukea</i>	Yellowwood	0		(2")		10	20	30	0.6	18.0	254
<i>Diospyros virginiana</i>	Persimmon			(2")		11	8	19	0.75	14.3	159
<i>Nyssa sylvatica</i>	Blackgum Tree	0	0	(2")		11	8	19	0.66	12.5	123
<i>Quercus imbricaria</i>	Shingle Oak	0		(2")		10	10	20	0.66	13.2	137
<i>Sassafras albidum</i>	Common Sassafras			(2")		9	15	24	0.66	15.8	197
Non invasive, exotic species											
<i>Cercidiphyllum japonicum</i>	Katsuratree			(2")		8	20	28	0.6	16.8	222
<i>Diospyros virginiana</i>	Persimmon			(2")							
<i>Maclura pomifera</i> 'White Shield'	White Shield Osage Orange	0		(2")	Seedless cv.	10	10	20	0.9	18.0	254
<i>Quercus nuttalli</i>	Nuttall Oak	0		(2")		10	15	25	0.66	16.5	214
<i>Pistacia chinensis</i>	Chinese Pistache	0		(2")		11	8	19	0.66	12.5	123
<i>Prunus x yeodensis</i>	Yoshino Cherry			(10'-12' ht.)		11	8	19	0.75	14.3	159
<i>Sophora japonica</i>	Japanese Pagoda	0		(2")		8	20	28	0.7	19.6	302
<i>Tilia cordata</i>	Littleleaf Linden	0		(2")	Susceptible to diseases	12	15	27	0.66	17.8	249
<i>Ulmus</i> 'Patriot'	Patriot Elm	0		(2")	American/Japanese cross	12	20	32	0.66	21.1	350
Limit Use (<15% of tree list)											
<i>Acer rubrum</i>	Red Maple	0	0	(2")	Oct Glory', 'Red Sunset' alt. cvs.	10	20	30	0.75	22.5	397
<i>Gleditsia triacanthos l. var. inermis</i>	Thornless Common Honeylocust	0		(2")	Susceptible to diseases	11	20	31	0.75	23.3	424
<i>Quercus acutissima</i>	Sawtooth Oak			(2")		12	30	42	0.65	27.3	585
<i>Ulmus parvifolia</i>	Chinese Elm	0		(2")		12	15	27	0.8	21.6	366
<i>Zelkova serrata</i>	Zelkova	0		(2")		12	20	32	0.66	21.1	350
<i>Zelkova serrata</i> 'Green Vase'	Green Vase Zelkova	0		(2")		12	18	30	0.5	15.0	177

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** Secondary Entry Corridor medium canopy species in yellow

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Small Deciduous Trees (10'-30')											
Native to region, preferred											
<i>Aesculus pavia</i>	Red Buckeye			(6'-7')		6	6	12	0.9	10.8	92
<i>Amelanchier arborea</i>	Downy Serviceberry			(6'-7' ht.; clump)		7	13	20	0.66	13.2	137
<i>Amelanchier canadensis</i>	Shadblow Serviceberry			(6'-7' ht.; clump)		7	13	20	0.66	13.2	137
<i>Amelanchier laevis</i>	Alleghy Serviceberry	0	0	(6'-7' ht)		7	13	20	0.66	13.2	137
<i>Asimina triloba</i>	Paw Paw			(6'-7' ht)							
<i>Carpinus caroliniana</i>	American Hornbeam	0		(6'-8' & 10'-12')		11	9	20	0.8	16.0	201
<i>Cercis canadensis</i>	Eastern Redbud	0	0	(6'-7')		7	10	17	0.74	12.6	124
<i>Cornus alternifolia</i>	Pagoda Dogwood			(6'-7')		7	10	17	0.74	12.6	124
<i>Cornus florida</i>	Flowering Dogwood		0	(6'-7')	Cloud 9', 'Cherokee Princess' alt cvs.	7	10	17	0.74	12.6	124
<i>Cornus florida rubra</i>	Pink Dogwood			(6'-7')		7	10	17	0.74	12.6	124
<i>Crataegus phaenopyrum</i>	Washington Hawthorn		0	(6'-8' ht.)		7	10	17	0.9	15.3	184
<i>Crataegus spp.</i>	Hawthorn		0	(6'-8' ht.)	Winter King' alt cv.	7	10	17	0.9	15.3	184
<i>Halesia carolina</i>	Carolina Silverbell			(6'-8' ht.)		7	12	19	0.66	12.5	123
<i>Halesia monticola</i>	Mountain Silverbell			(2")		10	15	25	0.66	16.5	214
<i>Hamamelis virginiana</i>	Common Witch Hazel			(6'-7')		6	10	16	0.75	12.0	113
<i>Magnolia tripetala</i>	Umbrella Magnolia			(2")		7	8	15	0.66	9.9	77
<i>Magnolia virginiana</i>	Sweet Bay Magnolia			(6'-7')		6	10	16	0.75	12.0	113
<i>Malus spp</i>	Flowering Crab Apple			(6'-7')	Donald Wyman', 'Sugartyme' alt. cvs.	6	6	12	0.9	10.8	92
<i>Ostrya virginiana</i>	American Hophornbeam	0		(6'-8' ht.)		7	10	17	0.66	11.2	99
<i>Oxydendrum arboreum</i>	Sourwood			(6'-7')		7	12	19	0.71	13.5	143
<i>Viburnum prunifolium</i>	Blackhaw Viburnum			(6'-7')		7	8	15	0.73	11.0	94
								0		0.0	0
Non invasive, exotic species											
<i>Acer griseum</i>	Paperbark Maple			(6'-8' ht.)		7	9	16	0.66	10.6	88
<i>Acer palmatum</i>	Japanese Maple			(6'-7')		6	10	16	0.9	14.4	163
<i>Amelanchier x grandiflora</i>	Apple Serviceberry			(6'-7' ht.; clump)		7	13	20	0.66	13.2	137
<i>Cornus kousa</i>	Kousa Dogwood			(6'-7')		7	8	15	0.85	12.8	128
<i>Cornus mas</i>	Corneliancherry Dogwood			(6'-7')		6	10	16	0.75	12.0	113
<i>Cotinus coggygria</i>	Smoketree			(6'-7')	Daydream', 'Royal Purple' alt. cvs.	6	10	16	0.9	14.4	163
<i>Cotinus obovatus</i>	American Smoke Tree			(2")		6	10	16	0.9	14.4	163
<i>Crataegus crusgalli var.</i>	Thornless Cockspur Hawthorn			(6'-8' ht.)		7	10	17	0.9	15.3	184
<i>Magnolia x soulangiana</i>	Saucer Magnolia			(6'-8' ht.)		7	10	17	0.8	13.6	145
<i>Magnolia stellata</i>	Star Magnolia			(6'-7')		6	6	12	0.66	7.9	49
<i>Malus floribunda</i>	Japanese Flowering Crabtree			(6'-7')		6	8	14	0.7	9.8	75
<i>Malus x zumi</i>	Zumi Crabapple			(6'-7')		6	6	12	0.9	10.8	92
<i>Parrotia persica</i>	Persian Parrotia			(6'-8' ht.)		7	12	19	0.75	14.3	159
<i>Prunus avium</i>	Sweet Cherry			(6'-7')		7	7	14	0.66	9.2	67
<i>Pistacia chinensis</i>	Chinese Pistache			(6'-7')		7	10	17	0.9	15.3	184
<i>Prunus cerasus</i>	Sour Cherry			(6'-7')		7	8	15	0.9	13.5	143
<i>Prunus x 'Okame'</i>	"Okame" Flowering Cherry	0		(6'-7')		7	7	14	0.75	10.5	87
<i>Prunus sargentii</i>	Sargent Cherry			(6'-7')		7	10	17	0.75	12.8	128
<i>Prunus serrulata</i>	Japanese Flowering Cherry			(6'-7')	Kanzan' alt. cv.	7	7	14	0.75	10.5	87
<i>Prunus subhirtella</i>	Higan Cherry			(6'-8' ht.)	Autumn' alt. cv.	7	8	15	0.66	9.9	77
<i>Styrax japonica</i>	Japanese Snowbell			(6'-7')		7	8	15	0.73	11.0	94
<i>Syringa reticulata</i>	Japanese Tree Lilac	0		(6'-8' ht.)		8	10	18	0.75	13.5	143
Limit Use (<15% of tree list)											
<i>Lagerstroemia indica</i>	Crepe Myrtle			(6'-7')	Muskogee', 'Natchez', 'Tuscarora' alt cvs.	6	9	15	0.66	9.9	77

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** Preferred Entry Corridor species in orange

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Broadleaved Evergreens (Screening) and Ornamental Conifers (20'-70')											
Native to region, preferred											
<i>Ilex opaca</i>	American Holly			(4'-5')		4.5	10	14.5	0.58	8.4	56
<i>Juniperus virginiana</i>	Eastern Redcedar			(4'-5')		4.5	10	14.5	0.31	4.5	16
<i>Magnolia grandiflora</i>	Southern Magnolia			(4'-5')		4.5	10	14.5	0.57	8.3	54
<i>Pinus strobus</i>	Eastern White Pine			(4'-5')		4.5	20	24.5	0.5	12.3	118
<i>Pinus taeda</i>	Loblolly Pine			(4'-5')	Nana' dwarf cv.	5	20	25	0.65	16.3	207
<i>Thuja occidentalis</i> & cvs.	Eastern Arborvitae			(4'-5')		4.5	10	14.5	0.25	3.6	10
Non invasive, exotic species											
<i>Abies concolor</i>	White Fir, Concolor Fir			(4'-5')		5	10	15	0.5	7.5	44
<i>Cedrus atlantica</i>	Blue Atlas Cedar			(4'-5')	"Glauca" alt cv.	4.5	10	14.5	0.5	7.3	41
<i>Cedrus deodara</i>	Deodar Cedar			(4'-5')		4.5	20	24.5	0.55	13.5	143
<i>Cedrus libani</i>	Cedar of Lebanon			(4'-5')		4.5	10	14.5	0.65	9.4	70
<i>Chamaecyparis lawsonian</i>	Lawson Falsecypress			(4'-5')		4.5	20	24.5	0.55	13.5	143
<i>Cryptomeria japonica</i>	Cryptomeria			(4'-5')		5	20	25	0.5	12.5	123
<i>Ilex x attenuata</i> "Fosteri"	Foster's Holly			(4'-5')		4.5	10	14.5	0.31	4.5	16
<i>Ilex x 'Nellie R. Stevens'</i>	Nellie R. Stevens Holly			(4'-5')		2	10	12	0.63	7.6	45
<i>Larix decidua</i>	European Larch			(4'-5')		5	20	25	0.4	10.0	79
<i>Picea abies</i>	Norway Spruce			(4'-5')		4.5	10	14.5	0.5	7.3	41
<i>Picea glauca</i>	White Spruce			(4'-5')		4.5	10	14.5	0.3	4.4	15
<i>Picea orientalis</i>	Oriental Spruce			(4'-5')		5	10	15	0.4	6.0	28
<i>Picea omorika</i>	Serbian Spruce			(4'-5')		5	10	15	0.4	6.0	28
<i>Picea pungens</i> var. <i>glauca</i>	Colorado Blue Spruce			(4'-5')		4.5	10	14.5	0.3	4.4	15
<i>Pinus bungeana</i>	Lacebark Pine			(4'-5')		4.5	8	12.5	0.66	8.3	53
<i>Pinus cembra</i>	Swiss Stone Pine			(4'-5')		4.5	10	14.5	0.5	7.3	41
<i>Pinus densiflora</i>	Japanese Red Pine			(4'-5')		5	12	17	0.75	12.8	128
<i>Pinus flexilis</i>	Limber Pine			(4'-5')		4.5	10	14.5	0.5	7.3	41
<i>Pinus parviflora</i>	Japanese White Pine			(4'-5')		4.5	10	14.5	0.8	11.6	106
<i>Pinus resinosa</i>	Red Pine			(4'-5')		5	12	17	0.75	12.8	128
<i>Pinus sylvestris</i>	Scots Pine			(4'-5')		4.5	12	16.5	0.65	10.7	90
<i>Pinus thunbergiana</i>	Japanese Black Pine			(4'-5')		4.5	11	15.5	0.9	14.0	153
<i>Taxus baccata</i>	English Yew			(4'-5')		4.5	8	12.5	0.62	7.8	47
<i>Taxus cuspidata</i> "Capitata"	Upright Japanese Yew			(4'-5')		4.5	8	12.5	0.62	7.8	47
<i>Thuja orientalis</i> & cvs.	Oriental Arborvitae			(4'-5')		4.5	10	14.5	0.3	4.4	15
<i>Thuja plicata</i> & cvs.	Giant Arborvitae			(4'-5')		4.5	10	14.5	0.2	2.9	7

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Broadleaved Evergreen/ Semi Evergreen Shrubs (screening (3'-15'))											
Native to region, preferred											
<i>Ilex glabra</i>	Inkberry Holly			(2'-3')		2	4	6	0.9	5.4	23
<i>Leucothoe axillaris</i>	Coast Leucothoe			(2'-3')		2	2	4	1.5	6.0	28
<i>Leucothoe fontanesiana</i>	Drooping Leucothoe			(2'-3')		2	3	5	0.75	3.8	11
<i>Magnolia grandiflora</i> 'Little Gem'	Little Gem Magnolia			(2'-3')		3	7	10	0.6	6.0	28
<i>Morella cerifera</i>	Southern Waxmyrtle			(2'-3')	(formerly <i>Myrica cerifera</i>)	3	7	10	0.75	7.5	44
<i>Myrica pensylvanica</i>	Northern Bayberry			(2'-3')		3	3	6	0.8	4.8	18
Non invasive, exotic species											
<i>Abelia grandiflora</i>	Glossy Abelia			(2'-3')		2	3	5	0.85	4.3	14
<i>Aucuba japonica</i>	Japanese Aucuba			(2'-3')		2	4	6	0.85	5.1	20
<i>Berberis verruculosa</i>	Warty Barberry			(2'-3')		2	3	5	0.5	2.5	5
<i>Buxus microphylla</i> & cvs.	Littleleaf Box			(2'-3')		2	1	3	0.75	2.3	4
<i>Buxus sempervirens</i> & cvs.	Common Boxwood			(2'-3')	Green Beauty', 'Winter Gem' blight tolerant cvs.	2	3	5	0.75	3.8	11
<i>Daphne cneorum</i>	Rose Daphne			(2'-3')		2	4	6	0.9	5.4	23
<i>Daphne odora</i>	Fragrant Daphne			(2'-3')		2	2	4	0.9	3.6	10
<i>Hypericum calycinum</i>	Aaronsbeard St. Johnswood			(2'-3')		2	2	4	0.9	3.6	10
<i>Ilex cornuta</i> & cvs	Chinese Holly			(2'-3')	Carissa', 'burfordii' alt. cvs.	2	3	5	0.85	4.3	14
<i>Ilex x meserveae</i> & cvs	Meserve Holly			(2'-3')		3	3	6	0.9	5.4	23
<i>Jasminum nudiflorum</i>	Winter Jasmine			(2'-3')		2	2	4	0.9	3.6	10
<i>Juniperus chinensis</i> & cvs	Chinese Juniper			(2'-3')		3	2	5	0.75	3.8	11
<i>Osmanthus heterophyllus</i>	Holly Osmanthus			(2'-3')		2	8	10	0.85	8.5	57
<i>Osmanthus x fortunei</i>	Fortune's Osmanthus			(2'-3')		5	10	15	0.75	11.3	99
<i>Photinia x frazeri</i>	Red Photinia			(2'-3')		2	8	10	0.5	5.0	20
<i>Picea abies</i> 'Little Gem'	Dwarf Norway Spruce			(2'-3')		2	1	3	0.65	2.0	3
<i>Picea abies</i> 'Nidiformis'	Birds Nest Spruce			(2'-3')		2	3	5	0.66	3.3	9
<i>Pieris floribunda</i>	Mountain Pieris			(2'-3')		2	3	5	0.85	4.3	14
<i>Pieris japonica</i> & cvs	Japanese Pieris			(2'-3')		3	6	9	0.75	6.8	36
<i>Pinus mugo</i>	Mugo Dwarf Mountain Pine			(2'-3')		3	9	12	0.9	10.8	92
<i>Prunus laurocerasus</i>	Cherry Laurel			(2'-3')	Otto Luyken' alt cv.	2	2	4	0.9	3.6	10
<i>Pyracantha x cvs</i>	Firethorn (Fiery Cascade)			(2'-3')		2	4	6	0.9	5.4	23
<i>Rhododendron spp.</i>	Rhododendron			(2'-3')		3	3	6	0.5	3.0	7
<i>Sarcococca hookerana</i>	Dwarf Himalayan Sweet			(2'-3')		2	2	4	0.9	3.6	10
<i>Sarcococca ruscifolia</i>	Sweet Box			(2'-3')		2	1	3	0.9	2.7	6
<i>Skimmia japonica</i>	Japanese Skimmia			(2'-3')		2	1	3	0.9	2.7	6
<i>Taxus baccata</i> "Repandens"	English Spreading Yew			(2'-3')		2	2	4	1.5	6.0	28
<i>Taxus cuspidata</i> & cvs	Japanese Yew			(2'-3')		2	4	6	1.6	9.6	72
<i>Taxus x media</i> & cvs	Anglojap Yew			(2'-3')		2	1	3	0.65	2.0	3
<i>Viburnum x burkwoodii</i>	Burkwood Viburnum			(2'-3')		4	4	8	0.66	5.3	22
<i>Viburnum x pragense</i>	Prague Viburnum			(2'-3')		5	5	10	0.75	7.5	44
<i>Viburnum rhytidophyllum</i>	Leatherleaf Viburnum			(2'-3')		5	5	10	0.9	9.0	64

Charlottesville's Master Tree List

2/2/2021

City regulation requires 2" minimum caliper for medium and large canopy trees

<u>Botanical Name</u>	<u>Common Name</u>	Approved Street Tree	Entry Corridor Tree**	Min. Caliper or Height (Min. Cal./Ht.)	Notes	Height of Planting (X)	Growth over 10 years* (Y)	Total Height in 10 Years X + Y = T	Ratio of Width to Height [R]	Total Width in 10 years [R] T = D	Area of Canopy (D) ² *3.14/4=
Deciduous Shrubs (3'-30')											
Native to region, preferred											
<i>Aesculus parviflora</i>	Bottlebrush Buckeye			(2'-3')		2	6	8	0.85	6.8	36
<i>Calycanthus floridus</i>	Common Sweetshrub			(2'-3')		2	4	6	0.95	5.7	26
<i>Callicarpa americana</i>	American Beautyberry			(2'-3')		2	2	4	1.2	4.8	18
<i>Cephalanthus occidentalis</i>	Buttonbush			(2'-3')		2	6	8	0.85	6.8	36
<i>Clethra alnifolia & cvs</i>	Summerset Clethra			(2'-3')		2	4	6	0.75	4.5	16
<i>Cornus racemosa</i>	Gray Dogwood			(2'-3')		2	8	10	0.9	9.0	64
<i>Cornus sericea & cvs</i>	Red-twig Dogwood			(2'-3')	"Arctic Fire", 'Bailey' alt cvs.	2	6	8	1.2	9.6	72
<i>Fothergilla gardenii</i>	Dwarf Fothergilla			(1'-2')	Mt Airy, 'Suzanne' alt cvs.	1	2	3	0.9	2.7	6
<i>Fothergilla major</i>	Large Fothergilla			(2'-3')		2	4	6	0.85	5.1	20
<i>Hamamelis virginiana</i>	American Witchhazel			(2'-3')		2	9	11	0.9	9.9	77
<i>Hydrangea arborescens</i>	Wild Hydrangea			(2'-3')	Annabelle', 'Incrediball' alt cvs.	2	3	5	0.9	4.5	16
<i>Hydrangea quercifolia & cvs</i>	Oakleaf Hydrangea			(2'-3')	Snow Queen', 'Alice' alt cvs.	2	5	7	0.9	6.3	31
<i>Ilex verticillata & cvs</i>	Winterberry Holly			(2'-3')	provide male cultivar such as 'Jim Dandy'	2	4	6	0.9	5.4	23
<i>Itea virginica</i>	Virginia Sweetspire			(2'-3')	Henry's Garnet', 'Little Henry' alt cvs.	2	1	3	1.5	4.5	16
<i>Lindera benzoin</i>	Spicebush			(2'-3')		2	4	6	0.9	5.4	23
<i>Rhododendron periclymenoides</i>	Pinxterbloom Azalea			(2'-3')		2	1	3	0.9	2.7	6
<i>Aronia arbutifolia</i>	Chokecherry			(2'-3')	Brilliantissima' al cv.	2	4	6	0.5	3.0	7
<i>Physocarpus opulifolius</i>	Ninebark			(2'-3')		2	3	5	1	5.0	20
<i>Rhus aromatica</i>	Flameleaf Sumac			(2'-3')	Gro-Low' alt cv.	2	1	3	1.3	3.9	12
<i>Rhus copallina</i>	Fragrant Sumac			(2'-3')		2	14	16	1.2	19.2	289
<i>Rhus glabra</i>	Smooth Sumac			(2'-3')		2	7	9	1	9.0	64
<i>Rhus typhina</i>	Staghorn Sumac			(2'-3')		2	13	15	1.2	18.0	254
<i>Viburnum dentatum</i>	Arrowwood Viburnum			(2'-3')		2	5	7	0.9	6.3	31
<i>Viburnum lentago</i>	Nannyberry Viburnum			(2'-3')		2	13	15	0.6	9.0	64
<i>Viburnum nudum "Winterthur"</i>	"Winterthur" Viburnum			(2'-3')		2	4	6	1	6.0	28
<i>Viburnum opulus "Sterile"</i>	Old Fashioned Viburnum			(2'-3')		2	6	8	1.2	9.6	72
<i>Viburnum prunifolium</i>	Blackhaw Viburnum			(2'-3')		2	10	12	0.75	9.0	64
<i>Viburnum trilobum</i>	American Cranberrybush			(2'-3')		2	6	8	1	8.0	50
Non invasive, exotic species											
<i>Callicarpa japonica</i>	Japanese Beautyberry			(2'-3')		2	2	4	0.9	3.6	10
<i>Caryopteris x clandonensis</i>	Blue Mist Shrub			(2'-3')	Dark Knight', Longwood Blue' alt cvs.	2	2	4	0.9	3.6	10
<i>Cotoneaster horizontalis</i>	Rockspray Cotoneaster			(2'-3')		2	1	3	1.2	3.6	10
<i>Deutzia gracilis & cvs</i>	Slender Deutzia			(2'-3')	Nikko' alt cv.	1	2	3	1.2	3.6	10
<i>Ficus carica</i>	Fig			(2'-3')	Brown Turkey', 'Panache', 'Celeste' alt cvs.	2	8	10	0.9	9.0	64
<i>Forsythia x intermedia & cvs</i>	Forsythia			(2'-3')	Lynwood' alt cv.	2	3	5	0.9	4.5	16
<i>Hamamelis x intermedia & cvs</i>	Witchhazel			(2'-3')	Arnold Prom' alt cv.	2	9	11	0.9	9.9	77
<i>Hamamelis mollis</i>	Chinese Witchhazel			(2'-3')		2	8	10	0.9	9.0	64
<i>Hamamelis vernalis</i>	Vernal Witchhazel			(2'-3')		2	4	6	0.9	5.4	23
<i>Hypericum x "Hidcote"</i>	"Hidcote" St. Johnswort			(1'-2')		1	2	3	0.9	2.7	6
<i>Ilex decidua</i>	Possumhaw			(2'-3')		2	7	9	0.8	7.2	41
<i>Kerria japonica</i>	Japanese Kerria			(2'-3')		2	1	3	1.2	3.6	10
<i>Malus sargentii</i>	Sargent Crabapple			(6'-7')		6	2	8	0.9	7.2	41
<i>Potentilla fruticosa & cvs</i>	Cinquefoil			(1'-2')	Abbotswood' alt cv.	1	2	3	1	3.0	7
<i>Spiraea spp</i>	Spiraea			(1'-2')	'Blue Kazoo', 'Snowmound', 'Snow Storm' cvs	1	2	3	1	3.0	7
<i>Spiraea x vanhouttei</i>	Vanhoutte Spiraea			(2'-3')	Renaissance' alt cv.	2	4	6	1.2	7.2	41
<i>Syringa meyeri "Palibin"</i>	Compact Meyer Lilac			(2'-3')		2	3	5	1.5	7.5	44
<i>Syringa patula "Miss Kim"</i>	"Miss Kim" Manchurian Lilac			(2'-3')		1	3	3	1	3.0	7
<i>Syringa x chinensis</i>	Chinese Lilac			(2'-3')		2	6	8	1	8.0	50
<i>Viburnum lantana & cvs</i>	Wayfaringtree Viburnum			(2'-3')		2	10	12	1	12.0	113
<i>Viburnum plicatum & cvs</i>	Snowball Viburnum			(2'-3')		2	6	8	1	8.0	50
<i>Viburnum x carlcephalum</i>	Fragrant Viburnum			(2'-3')		2	4	6	1	6.0	28