

Green Area Ratio Plant List

Trees							
Scientific name	Common name	Canopy ≤40'	Canopy >40'	Sun / Shade	Native	Bioretention Suitability	Notes
<i>Abies concolor</i>	White Fir		x	Sun / partial			
<i>Acer buergerianum</i>	Trident Maple	x		Full sun			
<i>Acer campestre</i>	Hedge Maple	x		Sun / partial			
<i>Acer griseum</i>	Paperbark maple	x		Full sun			
<i>Acer rubrum</i>	Red Maple		x	Sun / partial	x		
<i>Acer saccharum</i>	Sugar Maple		x	Sun / partial			
<i>Acer truncatum</i>	Shantung Maple	x		Sun / partial			
<i>Acer x freemani</i>	Freeman Maple		x	Sun / partial			
<i>Aesculus flava</i>	Yellow Buckeye		x	Full sun		x	
<i>Aesculus hippocastanum</i>	Horsechestnut		x	Sun / partial			
<i>Aesculus x carnea</i>	Red Horsechestnut		x	Sun / partial			
<i>Amelanchier arborea</i>	Downy Serviceberry	x		Shade / partial	x		
<i>Amelanchier canadensis</i>	Shadblow Serviceberry	x		Sun / partial	x	x	
<i>Amelanchier laevis</i>	Allegheny Serviceberry	x		Sun / partial			
<i>Amelanchier x grandiflora</i>	Apple Serviceberry	x		Sun / partial		x	
<i>Asimina triloba</i>	Pawpaw	x		Sun / partial	x	x	Pollinator
<i>Betula nigra</i>	River Birch		x	Sun / partial	x	x	
<i>Carpinus betulus</i>	European Hornbeam		x	Sun / partial			
<i>Carpinus caroliniana</i>	American Hornbeam	x		Sun / partial	x		
<i>Carya glabra</i>	Pignut Hickory		x	Sun / partial	x		
<i>Carya illinoensis</i>	Pecan		x	Sun / partial			
<i>Carya mollissima</i>	Chinese Chestnut		x	Sun / partial			
<i>Carya ovata</i>	Shagbark Hickory		x	Sun / shade	x		
<i>Catalpa spp.</i>	Catalpa		x	Sun / partial			
<i>Cedrus atlantica</i>	Atlas Cedar		x	Full sun			
<i>Cedrus deodara</i>	Deodar Cedar		x	Full sun			
<i>Celtis laevigata</i>	Sugarberry		x	Sun / partial			
<i>Celtis occidentalis</i>	Hackberry		x	Sun / partial	x	x	
<i>Cercidiphyllum japonicum</i>	Katsuratree		x	Sun / partial			
<i>Cercis canadensis</i>	Eastern Redbud	x		Sun / partial	x	x	Pollinator
<i>Chioanthus retusus</i>	Chinese Fringetree	x		Sun / partial			
<i>Chioanthus virginicus</i>	Fringe Tree	x		Sun / partial	x	x	Pollinator

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Cladastris kentukea	American Yellowwood		x	Full sun			
Cornus florida	Flowering Dogwood	x		Sun / partial	x		
Cornus florida x kousa	Stellar ink Hybrid Dogwood	x		Sun / partial			
Cornus kousa	Kousa Dogwood	x		Full sun			
Cornus mas	Corneliancherry Dogwood	x		Sun / partial			
Cotinus obovatus	American Smoketree	x		Sun / partial			
Crategus crus-galli	Cockspur Hawthorne	x		Full sun	x		Pollinator
Crategus viridis	Green Hawthorne	x		Full sun	x	x	Pollinator
Cryptomeria japonica	Japanese Cedar		x	Sun / partial			
Cupressocyparis leylandii	Leyland Cypress	x		Full sun			
Diospros virginiana	Persimmon		x	Sun / partial	x	x	Pollinator
Fagus grandifolia	American Beech		x	Sun / partial	x		
Fagus sylvatica	European Beech		x	Full sun			
Ginko biloba	Ginko		x	Full sun		x	
Gleditsia triacanthos	Honeylocust		x	Full sun		x	
Gymnocladus dioicus	Kentucky Coffee Tree		x	Full sun		x	
Halesia monticola	Silverbell	x		Sun / partial			
Halesia tetraptera (H. carolina)	Carolina Silverbell	x		Sun / partial			
Ilex decidua	Posumhaw	x		Sun / partial		x	
Ilex opaca	American Holly		x	Sun /shade	x		Pollinator
Juglans cinerea	Butternut		x	Full sun			
Juglans nigra	Black Walnut		x	Full sun	x		
Juniperus virginiana	Eastern Red Cedar	x		Full sun	x	x	
Koelreuteria paniculata	Goldenraintree		x	Full sun		x	
Laburnum anagyroides	Columnar Goldenchain Tree	x		Sun / partial			
Laburnum x waterei	Goldenchain Tree	x		Sun / partial			
Lagerstroemia indica	Crapemyrtle	x		Full sun		x	
Liquidambar styraciflua	Sweetgum		x	Sun / partial	x	x	
Lirodendron tulipifera	Tuliptree		x	Sun / partial	x		
Maackia amurensis	Amur Maackia	x		Full sun			

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Maclura pomifera	Osage Orange		x	Sun			
Magnolia acuminata	Cucumbertree Magnolia		x	Full sun			
Magnolia denudata	Yulan Magnolia	x		Sun / partial			
Magnolia grandiflora	Southern Magnolia		x	Sun / partial			
Magnolia stellata	Star Magnolia	x		Sun / partial			
Magnolia virginiana	Sweetbay Magnolia	x		Sun / partial	x	x	
Magnolia x soulangiana	Saucer Magnolia	x		Sun / partial			
Malus spp.	Apple	x		Sun / partial			
Metasequoia glyptostroboides	Dawn Redwood		x	Full sun		x	
Nyssa sylvatica	Blackgum		x	Sun / partial	x	x	
Ostrya virginiana	Hophornbeam	x		Sun / partial	x		
Oxydendrum arboreum	Sourwood	x		Sun / partial		x	
Parrotia persica	Persian Ironwood	x		Sun / partial			
Pinus spp.	Pine (typ.)		x	Full sun	varies		
Pinus strobus	White Pine		x	Full sun	x		
Pinus virginiana	Virginia Pine		x	Full sun	x		
Pistacia chinensis	Chinese Pistachio	x		Full sun			
Platanus occidentalis	American Sycamore		x	Full sun	x	x	
Platanus x acerifolia	London Planetree		x	Full sun			
Prunus armeniaca	Apricot	x		Full sun			
Prunus mume	Japanese Apricot	x		Full sun			
Prunus virginiana	Canada Red Chokeberry	x		Sun / partial			
Prunus x 'Okame'	Okame Cherry	x		Sun / partial			
Pyrus pyrifolia	Asian Pear	x		Sun			
Quercus alba	White Oak		x	Full sun	x		
Quercus bicolor	Swamp White Oak		x	Full sun	x	x	
Quercus coccinea	Scarlet Oak		x	Full sun	x		
Quercus falcata	Southern Red Oak		x	Full sun	x	x	
Quercus imbricaria	Shingle Oak		x	Sun / partial		x	
Quercus lyrata	Overcup Oak		x	Full sun		x	

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Quercus macrocarpa	Bur Oak		x	Full sun		x	
Quercus muehlenbergii	Chinkapin Oak		x	Full sun	x		
Quercus myrsinifolia	Chinese Evergreen Oak	x		Full sun			
Quercus nuttallii	Nuttall Oak		x	Full sun			
Quercus palustris	Pin Oak		x	Full sun	x		
Quercus phellos	Willow Oak		x	Full sun	x	x	
Quercus prinus	Chestnut Oak		x	Full sun	x		
Quercus rubra	Red Oak		x	Full sun	x		
Quercus shumardii	Shumard Oak		x	Full sun			
Quercus stellata	Post Oak		x	Full sun	x		
Quercus velutina	Black Oak		x	Full sun	x		
Rhus typhina	Staghorn Sumac	x		Sun / partial	x		
Robinia pseudoacacia	Black Locust		x	Sun /partial			
Sassafras albidum	Sassafras		x	Sun / partial	x		
Sophora japonica	Japanese Pagoda Tree		x	Full sun		x	
Stewartia pseudocamellia	Japanese Stewartia		x	Sun /partial			
Styrax japonicus	Japanese Snowbell	x		Sun / partial			
Syringa pekinensis	Chinese Tree Lilac	x		Full sun			
Syringa reticulata	Japanese Tree Lilac	x		Full sun		x	
Taxodium distichum	Bald Cypress		x	Full sun	x	x	
Tilia americana	Basswood		x	Sun / partial	x	x	Pollinator
Tilia cordata	Littleleaf Linden		x	Sun / partial		x	
Tilia tomentosa	Silver Linden		x	Sun / partial			
Ulmus americana 'New Harmony', 'Princeton', 'Jeffers	American Elm		x	Sun / partial	x	x	
Zelkova serrata	Japanese Zelkova		x	Full sun		x	

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Shrubs								
Scientific name	Common name	< 2-ft	> 2-ft	Recommended Spacing	Sun / Shade	Native	Bioretention Suitability	Notes
Baccharis halimifolia	Eastern Baccharis		x	3	Sun / partial	x	x	
Buxus microphylla	Littleleaf Boxwood		x	2.5	Sun / partial			
Buxus sempervirens	Common Boxwood		x	4	Sun / partial			
Callicarpa americana	Beautyberry		x	4	Sun / partial	x	x	
Callicarpa dichotoma	Purple Beautyberry		x	3	Sun / partial		x	
Caryopteris x clandonensis	Blue-Mist Shrub		x	2	Full sun			
Ceanothus americanus	New Jersey Tea		x	3	Sun / partial	x		Pollinator
Cephalanthus occidentalis	Buttonbush		x	4	Sun / partial	x	x	
Clethra alnifolia	Summersweet Clethra		x	3	Sun / partial	x	x	
Cornus alba	Tartarian Dogwood		x	4	Sun / partial		x	
Cornus sericea	Red Osier Dogwood		x	3	Sun / partial	x	x	
Cotinus coggygria	Smokebush		x	6-8	Full sun			
Cotoneaster dammeri	Bearberry Cotoneaster		x	3				
Cotoneaster spp.	Cotoneaster (typ.)		x	3+				
Forsythia x intermedia	Forsythia		x	5	Full sun		x	
Forsythia x intermedia 'Courtasol'	Courtasol Forsythia	x		0.5	Sun / partial		x	
Fothergilla gardenii	Dwarf Fothergilla		x	2.5	Sun / partial		x	
Gaultheria procumbens	Wintergreen	x		0.5	Shade / partial	x		
Hamamelis vernalis	Vernal Witchhazel		x	5	Sun / partial			
Hamamelis virginiana	Witch Hazel		x	6-8	Shade / partial	x		
Hydrangea arborescens	Smooth Hydrangea		x	3	Shade / partial	x	x	
Hydrangea macrophylla	Bigleaf Hydrangea		x	4				
Hydrangea quercifolia	Oakleaf Hydrangea		x	4+	Sun / partial		x	Pollinator
Hypericum 'Hidcote	Hidcote Hypericum		x	2	Sun / partial			
Ilex glabra	Inkberry Holly		x	3	Sun / shade	x	x	
Ilex verticillata	Winterberry Holly		x	3	Sun / shade	x	x	
Ilex vomitoria	Yaupon Holly		x	2.5	Sun / partial		x	
Itea virginica	Virginia Sweetspire		x	3	Sun / shade	x	x	
Itea virginica 'Little Henry' (or similar)	Virginia Sweetspire		x	2.5	Sun / shade	x	x	
Juniperus conferta	Shore Juniper	x		3+	Full sun		x	
Juniperus horizontalis	Creeping Juniper	x		3+	Full sun		x	
Kalmia latifolia	Mountain Laurel		x	4	Sun / shade	x		

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Scientific name	Common name	< 2-ft	> 2-ft	Recommended Spacing	Sun / Shade	Native	Bioretention Suitability	Notes
<i>Lindera benzoin</i>	Spicebush		x	4	Shade / partial	x		
<i>Myrica cerifera</i>	Wax Myrtle		x	5	Sun / partial	x	x	
<i>Myrica pennsylvanica</i>	Bayberry		x	4	Sun / partial	x	x	
<i>Photinia melanocarpa</i> (<i>Aronia melanocarpa</i>)	Black Chokeberry		x	3	Sun / partial	x	x	
<i>Photinia pyrifolia</i> (<i>Aronia arbutifolia</i>)	Red Chokeberry		x	3	Sun / partial	x		
<i>Pieris japonica</i>	Japanese Pieris		x	4	Sun / partial			
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil		x	2.5	Sun / partial			
<i>Pyracantha coccinea</i>	Firethorn		x	4	Sun / partial			
<i>Rhododendron</i> spp...	Rhododendron and Azalea (typ.)		x	3+		varies		Pollinator
<i>Rhus aromatica</i>	Fragrant Sumac		x	4	Sun / partial	x	x	Pollinator
<i>Rhus aromatica</i> 'Gro-Low' (or similar)	Fragrant Sumac		x	2.5	Sun / partial	x	x	Pollinator
<i>Rosa carolina</i>	Pasture Rose		x	3	Sun / partial	x		
<i>Rosa palustris</i>	Swamp Rose		x	3	Sun / shade	x		Pollinator
<i>Rosa</i> x <i>Rosa</i> 'Knockout' (or similar)	Knockout Rose		x	3	Sun / partial		x	
<i>Sarcococca hookeriana</i> 'humilis'	Himalayan Sweetbox		x	2	Sun / partial			
<i>Skimmia japonica</i>	Japanese Skimmia		x	3	Shade / partial			
<i>Spiraea alba</i>	Broad Meadowsweet		x	3	Sun	x		
<i>Spiraea tomentosa</i>	Steeplebush		x	3	Sun	x		
<i>Taxus baccata</i> 'Repandens'	Spreading English Yew		x	4				
<i>Vaccinium angustifolium</i>	Lowbush Blueberry	x		1	Sun / partial	x	x	
<i>Vaccinium corymbosum</i>	Highbush Blueberry		x	4	Sun / partial	x	x	Pollinator
<i>Viburnum dentatum</i>	Arrowwood Viburnum		x	4	Sun / shade	x	x	
<i>Viburnum prunifolium</i>	Blackhaw Viburnum		x	4	Sun / shade	x		
<i>Viburnum</i> spp.	Viburnum (typ.)		x	4+		varies		
<i>Viburnum trilobum</i>	American Cranberrybush		x	4	Sun / partial		x	
<i>Xanthorhiza simplissima</i>	Yellowroot		x	2.5	Sun / partial			
<i>Yucca filamentosa</i>	Adams Needle Yucca		x	2	Full sun	x		

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Herbaceous Perennials								
Scientific name	Common name	< 2-ft	> 2-ft	Recommended Spacing	Sun / Shade	Native	Bioretention Suitability	Notes
<i>Allium cernuum</i>	Nodding Onion	x		0.5	Sun	x		
<i>Amsonia hubrichtii</i>	Blue Star		x	2.0	Sun / partial		x	
<i>Amsonia tabernaemontana</i>	Blue Star		x	2.0	Sun / partial		x	Pollinator
<i>Aquilegia canadensis</i>	Wild Columbine		x	1.0	Sun	x		
<i>Aruncus dioicus</i>	Goat's Beard		x	2.0	Sun / partial	x	x	
<i>Asarum canadense</i>	Wild Ginger	x		0.5	Shade	x		
<i>Asclepias incarnata</i>	Swamp Milkweed		x	2.0	Sun	x	x	Pollinator
<i>Asclepias syriaca</i>	Common Milkweed		x	2.0	Sun	x		Pollinator
<i>Asclepias tuberosa</i>	Butterfly Weed		x	1.0	Sun	x	x	Pollinator
<i>Aster divaricatus</i> (<i>Eurybia divaricata</i>)	White Wood Aster		x	1.0	Shade	x		
<i>Aster ericodes</i> (<i>Symphyotrichum ericoides</i>)	White Aster		x	1.0	Sun	x		
<i>Aster laevis</i> (<i>Symphyotrichum laeve</i>)	Smooth Blue Aster		x	1.0	Sun	x		
<i>Aster novae angliae</i> (<i>S. novae-angliae</i>)	New England Aster		x	2.0	Sun	x	x	Pollinator
<i>Aster novi belgii</i> (<i>S. novi-belgii</i>)	New York Aster		x	1.0	Sun	x	x	
<i>Astilbe chinensis</i>	Chinese Astilbe	x		1.0	Shade		x	
<i>Baptista australis</i>	Blue False Indigo		x	2.0	Sun / partial	x	x	Pollinator
<i>Baptista sphaerocarpa</i>	Yellow Wild Indigo		x	1.5	Sun / shade		x	
<i>Brunnera macrophylla</i>	Siberian Bugloss		x	1.0	Partial shade		x	
<i>Ceratostigma plumbaginoides</i>	Plumbago	x		0.5	Sun / Shade		x	
<i>Chelone glabra</i>	Turtlehead		x	1.0	Shade	x	x	
<i>Chysogonum virginianum</i>	Golden Knee	x		0.5	Shade / partial	x	x	Pollinator
<i>Coreopsis verticillata</i>	Threadleaf Coreopsis		x	1.0	Sun	x		
<i>Dicentra</i> spp. (typ.)	Bleeding Heart		x	1.5		varies		
<i>Digitalis purpurea</i>	Foxglove		x	1.5	Sun			
<i>Echinacea purpurea</i>	Purple Coneflower		x	1.5	Sun / partial		x	Pollinator
<i>Epimedium grandiflorum</i>	Bishop's Hat	x		0.5	Shade / partial		x	
<i>Eupatorium dubium / purpureum</i>	Joe Pye Weed		x	2.0	Sun / partial	x	x	Pollinator
<i>Galium odoratum</i>	SweetWoodruff	x		1.0	Shade			
<i>Geranium maculatum</i>	Wild Geranium	x		0.5	Sun / partial	x	x	
<i>Helianthus angustifolius</i>	Swamp Sunflower		x	4.0	Sun	x	x	
<i>Helianthus salicifolius</i>	Willowleaf Sunflower		x	1.5	Sun		x	
<i>Heliopsis helianthoides</i>	Oxeye Sunflower		x	1.5	Sun	x	x	
<i>Helleborus</i> spp. (typ)	Helleborus		x	1.0	Shade		x	
<i>Heuchera americana</i>	Alumroot		x	1.0	Shade	x		Pollinator
<i>Hibiscus moscheutos</i>	Hibiscus		x	2.0	Sun	x	x	
<i>Hosta</i> spp.	Hosta		x	2.0	Shade		x	
<i>Hypericum calycinum</i>	St. Johnswort	x		1.5	Sun / partial		x	
<i>Iris germanica</i>	Bearded Iris	x		0.5	Sun		x	

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<i>Iris sibirica</i>	Siberian Iris		x	1.5	Sun / partial		x	
<i>Lavandula angustifolia</i>	English Lavendar		x	1.0	Sun			
<i>Leucanthemum x superbum</i>	Shasta Daisy		x	1.5	Sun		x	
<i>Liatris scariosa</i>	Tall Gayfeather		x	1.0	Sun	x		
<i>Liatris spicata</i>	Blazingstar		x	1.5	Sun	x		Pollinator
<i>Liatris squarossa</i>	Plains Blazingstar		x	1.0	Sun	x		
<i>Mertensia virginica</i>	Virginia Bluebells		x	1.0	Shade	x		
<i>Monarda bradburiana</i>	Eastern Beebalm	x		0.5	Shade		x	
<i>Monarda bradburiana (M. fistulosa)</i>	Wild bergamot		x	1.0	Sun	x		Pollinator
<i>Monarda didyma</i>	Beebalm		x	1.5	Sun	x		
<i>Nepeta racemosa</i>	Catmint	x		1.0	Sun / partial		x	
<i>Oenothera fruticosa</i>	Narrow-Leaved Sundrops	x		0.5	Sun	x	x	
<i>Opuntia humifusa</i>	Eastern Prickly-pear	x		2.0	Sun	x		
<i>Penstemon digitalis</i>	Beardtongue	x		0.5	Sun	x	x	Pollinator
<i>Perovskia atriplicifolia</i>	Russian Sage		x	2.0	Sun		x	
<i>Phlox divaricata</i>	Woodland Phlox	x		1.0	Shade	x		
<i>Phlox paniculata</i>	Summer Phlox		x	1.5	Sun	x		
<i>Phlox sublata</i>	Moss Phlox	x		0.5	Sun	x	x	
<i>Physostegia virginiana</i>	Obedient Plant		x	1.0	Sun	x	x	
<i>Polygonatum odoratum</i>	Solomon's Seal	x		0.5	Sun / partial		x	
<i>Pycnanthemum muticum</i>	Smooth Tothed Mountain Mint		x	1.5	Sun / partial		x	Pollinator
<i>Rosmarinus officinalis</i>	Rosemary		x	2.0	Sun			
<i>Rudbeckia fulgida</i>	Early Coneflower		x	1.0	Sun	x	x	
<i>Rudbeckia hirta</i>	Black-Eyed Susan	x		0.5	Sun	x	x	
<i>Salvia x sylvestris</i>	Purple Salvia	x		0.5	Sun		x	
<i>Sedum kamtschaticum</i>	Orange Stonecrop	x		0.5	Sun / shade		x	
<i>Sedum rupestre</i>	Stonecrop	x		0.5	Sun		x	
<i>Sisyrinchium graminoides</i>	Blue-eyed Grass	x		0.5	Sun	x	x	
<i>Solidago spp.</i>	Goldenrod		x	1.0	Sun	x		Pollinator
<i>Solidago sphacelata</i>	Golden Fleece Goldenrod	x		1.0	Sun	x	x	
<i>Stachys byzantina</i>	Lambs Ear	x		0.5	Sun		x	
<i>Tiarella cordifolia</i>	Foamflower	x		1.0	Sun / shade	x		
<i>Tradescantia virginiana</i>	Virginia spiderwort	x		0.5	Sun / shade	x		
<i>Verbena hastata</i>	Blue Vervain		x	1.0	Sun	x		
<i>Veronia noveboracensis</i>	New York Ironweed		x	2.5	Sun	x		Pollinator
<i>Viola pedata</i>	Bird's Foot Violet	x		0.5	Sun	x		

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Ornamental Grasses								
Scientific name	Common name	< 2-ft	> 2-ft	Recommended Spacing	Sun / Shade	Native	Bioretention Suitability	Notes
<i>Andropogon virginicus</i>	Broom Sedge		x	1.5	Sun	x		
<i>Calamagrostis x acutiflora</i>	Feather Reed Grass		x	2	Sun		x	
<i>Carex eburnea</i>	Bristle-leaf Sedge	x		1	Shade / partial		x	
<i>Carex glauca</i>	Blue Sedge	x		0.5	Shade / partial		x	
<i>Carex morrowii</i>	Japanese Sedge		x	1	Shade		x	
<i>Carex muskingumensis</i>	Palm Sedge		x	1	Sun / partial		x	
<i>Carex pennsylvanica</i>	Pennsylvania Sedge		x	1	Shade / partial	x	x	
<i>Carex stricta</i>	Tussock Sedge		x	1.5	Sun / partial	x	x	
<i>Chasmanthium latifolium</i>	Northern Sea Oats		x	1.5	Sun / partial	x	x	
<i>Cortaderia selloana</i>	Pampas Grass		x	3.5+				
<i>Deschampsia cespitosa</i>	Tufted Hair Grass		x	1.5	Sun / shade		x	
<i>Festuca glauca</i>	Blue Fescue	x		1.5	Sun			
<i>Hakonechloa macra</i>	Japanese Forest Grass	x		1.5	Shade		x	
<i>Juncus effusus</i>	Soft Rush		x	1.5	Sun	x	x	
<i>Juncus inflexus</i>	European Meadow Rush		x	1	Sun		x	
<i>Juncus patens</i>	Grey Rush		x	1	Sun / partial		x	
<i>Liriope muscari</i>	Lily turf	x		1	Sun / partial			somewhat invasive
<i>Muhlenbergia capillaris</i>	Pink Muhygrass		x	2	Sun / partial		x	
<i>Ophiopogon japonicus</i>	Black Mondo Grass	x		0.5				somewhat invasive
<i>Panicum virgatum</i>	Switchgrass		x	2	Sun / partial	x	x	
<i>Pennisetum alopecuroides</i>	Fountain Grass		x	1.5	Sun / partial		x	somewhat invasive
<i>Schizachyrium scoparium</i>	Little Bluestem		x	1.5	Sun	x	x	
<i>Sorghastrum nutans</i>	Indian Grass		x	2	Sun	x	x	
<i>Spartina patens</i>	Saltmarsh Cordgrass		x	1	Sun / partial	x	x	
<i>Sporobolus heterolepis</i>	Prairie Dropseed		x	2	Sun		x	

Green Area Ratio Plant List

Ferns								
Scientific name	Common name	< 2-ft	> 2-ft	Recommended Spacing	Sun / Shade	Native	Bioretention Suitability	Notes
<i>Adiantum pedatum</i>	Northern Maidenhair Fern		x	1	Shade	x	x	
<i>Anthyrium filix-femina</i>	Northern Lady Fern		x	1.5	Shade	x		
<i>Anthyrium nipponicum</i>	Japanese Painted Fern	x		1.5	Shade			
<i>Dennstaedtia punctilobula</i>	Hay-scented Fern		x	1.5	Sun / partial	x		
<i>Matteuccia pensylvanica</i>	Ostrich Fern		x	2	Shade	x		
<i>Osmunda cinnamomea</i>	Cinnamon Fern		x	2	Sun / Shade	x		
<i>Osmunda regalis</i>	Royal Fern		x	2	Sun / Shade	x		
<i>Polystichum acrostichoides</i>	Christmas Fern		x	1	Shade	x	x	
<i>Thelypteris noveboracensis</i>	New York Fern		x	1.5	Shade	x		

Green Area Ratio Plant List

Vegetated Wall						
Scientific name	Common name	Max. Height (ft)	Attachment	Sun / Shade	Native	Notes
<i>Actinidia kolomikta</i>	Kolomikta Actinidia	15-20	Twining	Sun / partial		
<i>Actinidia polygama</i>	Silver Vine	10-15	Twining	Sun / partial		
<i>Aristolochia macrophylla</i> (A. durior)	Dutchman's Pipe	20-30	Twining	Sun / partial	x	
<i>Bignonia capreolata</i>	Crossvine	30-50	Clinging/Twining	Sun / partial	x	
<i>Campsis radicans</i>	Common Trumpet creeper	30-40	Clinging	Sun / partial	x	
<i>Campsis x tagliabuana</i>	Hybrid Trumpet creeper	20-30	Clinging	Sun		
<i>Clematis virginiana</i>	Virginsbower	12-20	Tendrils	Sun / partial	x	
<i>Clematis x jackmanii</i>	Jackman Clematis	5-15	Tendrils	Sun / partial		
<i>Humulus lupulus</i>	Hops	20	Twining	Sun / partial		Non-woody
<i>Hydrangea anomala petiolaris</i>	Climbing Hydrangea	60-80	Clinging	Sun		
<i>Lonicera caprifolium</i>	Italian Honeysuckle	10-20	Twining			
<i>Lonicera periclymenum</i>	Woodbine Honeysuckle	10-20	Twining	Sun		
<i>Lonicera sempervirens</i>	Trumpet Honeysuckle	10-20	Twining	Sun / partial	x	Pollinator
<i>Lonicera x brownii</i>	Brown's Honeysuckle	10-15	Twining	Sun		
<i>Lonicera x heckrottii</i>	Goldflame Honeysuckle	10-20	Twining	Sun		
<i>Lonicera x tellmanniana</i>	Redgold Honeysuckle	10-15	Twining			
<i>Menispermum canadense</i>	Common Moonseed	10-20	Twining	Sun / partial		
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	25-35	Clinging	Sun / shade	x	
<i>Passiflora incarnata</i>	Passionflower	6-10	Twining	Sun / partial	x	Pollinator
<i>Schizophragma hydrangeoides</i>	Japanese Hydrangea-Vine	30	Clinging	Shade / partial		
<i>Vitis cignetiae</i>	Gloryvine Grape	30-50	Twining / Tendrils	Sun		
<i>Vitis rotundifolia</i>	Muscadine Grape	15-30	Twining / Tendrils	Sun		
<i>Wisteria frutescens</i>	American Wisteria	15-30	Twining	Sun	x	

Green Area Ratio Plant List

Recommended Succulent Groundcovers for Green Roofs							
Scientific name	Common name	< 2-ft	> 2-ft	Type	Sun / Shade	Native	Notes
<i>Delosperma cooperii</i>	Delosperma	x		Succulent	Sun		
<i>Delosperma nubigenum</i> "Basutoland"	Ice Plant	x		Succulent	Sun		
<i>Phedimus takesimensis</i> 'Golden Carpet'	<i>Sedum takesimensis</i>	x		Succulent	Sun / partial		
<i>Sedum acre</i>	Goldmoss Stonecrop	x		Succulent	Sun/partial		
<i>Sedum album</i>	White Stonecrop	x		Succulent	Sun		
<i>Sedum album</i> 'Murale'	White Stonecrop	x		Succulent	Sun		
<i>Sedum hybridum</i> 'Immergrunchen'	Stonecrop	x		Succulent	Sun		
<i>Sedum kamtschaticum</i>	Orange Stonecrop	x		Succulent	Sun		
<i>Sedum kamtschaticum</i> 'Weihenstephaner Gold'	Orange Stonecrop	x		Succulent	Sun / shade		
<i>Sedum reflexum</i> 'Blue Spruce'	Stonecrop	x		Succulent	Sun		
<i>Sedum sexangulare</i>	Tasteless Stonecrop	x		Succulent	Sun / shade		
<i>Sedum spurium</i> 'Fuldaglut'	Caucasian Stonecrop	x		Succulent	Sun / partial		
<i>Sedum spurium</i> 'John Creech'	Caucasian Stonecrop	x		Succulent	Sun / partial		
<i>Sedum spurium</i> Red Carpet	Caucasian Stonecrop	x		Succulent	Sun		
<i>Sedum stefco</i>	Stonecrop	x		Succulent	Sun		
<i>Sedum telephiodes</i>	Allegheny Stonecrop	x		Succulent	Sun	x	
<i>Sedum ternatum</i>	Mountain Stonecrop	x		Succulent	Sun / shade	x	
<i>Talinum calycinum</i>	Fameflower	x		Succulent	Sun		
<i>Talinum teretifolium</i>	Fameflower	x		Succulent	Sun	x	

Green Area Ratio Plant List

Recommended green roof accent species										
Scientific name	Common name	< 2-ft	> 2-ft (media depth >8")	Type	Sun / Shade	Native	Reference	Unirrigated* (min. media depth in inches)		Supplemental Irrigation
Agastache foeniculum	Anise Hyssop	x		Herbaceous	Sun / partial		1			X
Allium cernuum	Wild Nodding Onion	x		Herbaceous	Sun	x	2,4,5	x	3	
Allium schoenoprasum	Chives	x		Herbaceous	Sun / partial		2,5	x	3	
Amorpha canescens	Lead Plant		x	Herbaceous	Sun		1			X
Antennaria dioica	Pussytoes	x		Herbaceous	Sun		1,2			X
Armeria maritima	Sea Thrift	x		Herbaceous	Sun		1,2,5	x	6	
Artemisia ludoviciana var. albula 'Silver King'	White Sage	x		Herbaceous	Sun		1,2			X
Biglowia nuttallii	Nuttall's Rayless Goldenrod	x		Herbaceous	Sun / shade		5	x	6	
Bouteloua curtipendula	Sideoats Grass		x	Grass	Sun	x	1,2			X
Bouteloua gracilis	Blue Grama Grass	x		Grass	Sun	x	1			X
Calamagrostis brachytricha	Korean Feather Reed Grass		x	Grass	Sun		1			X
Carex flacca	Blue Green Sedge	x		Grass	Sun / partial		2			X
Ceanothus americanus	New Jersey Tea		x	Shrub	Sun / partial	x	1			X
Chrysopsis mariana	Maryland Goldenaster	x		Herbaceous	Sun / partial	x	2			X
Coreopsis lanceolata	Lanceleaf Coreopsis	x		Herbaceous	Sun	x	1,4			X
Coreopsis verticillata	Threadleaf Coreopsis	x		Herbaceous	Sun	x	1			X
Dalea purpurea	Purple Prairie Clover		x	Herbaceous	Sun		1			X
Dianthus deltoides	Maiden Pink	x		Herbaceous	Sun		2,5	x	6	
Dianthus gratianopolitanus 'Firewitch'	Cheddar Pink	x		Herbaceous	Sun		1,5	x	6	
Festuca glauca	Blue Fescue	x		Grass	Sun		5	x	6	
Galium verum	Yellow Bedstraw		x	Herbaceous	Sun / partial		1			X
Helianthus mollis	Ashy Sunflower		x	Herbaceous	Sun		1			X
Hosta lancifolia	Narrow-leaved Hosta	x		Herbaceous	Shade / partial		1			X
Ipomopsis rubra	Standing Cypress		x	Herbaceous	Sun		5	x	4	
Juniperus chinensis var. Sargentii viridis	Chinese Juniper	x		Shrub	Sun		1,5	x	8	
Juniperus horizontalis 'Wiltonii'	Creeping Juniper	x		Shrub	Sun		1,5	x	8	
Koeleria glauca	Blue Hair Grass	x		Grass	Sun		1,3,5	x	6	
Lespedeza capitata	Round-Headed Bush Clover		x	Herbaceous	Sun	x	1			X
Monarda fistulosa	Wild Bergamot		x	Herbaceous	Sun / partial	x	1,5	x	6	
Nepeta racemosa 'Walker's Low'	Catmint	x		Herbaceous	Sun / partial		1,5	x	6	
Opuntia humifusa	Prickly Pear	x		Cacti	Sun	x	2,5	x	4	
Penstemon barbatus	Beardlip Penstemon		x	Herbaceous	Sun		5	x	6	

Green Area Ratio Plant List

Recommended green roof accent species										
Scientific name	Common name	< 2-ft	> 2-ft (media depth >8")	Type	Sun / Shade	Native	Reference	Unirrigated* (min. media depth in inches)		Supplemental Irrigation
<i>Penstemon hirsutus</i>	Hairy Beardtongue	x		Herbaceous	Sun	x	1,3,5	x	6	
<i>Penstemon pinifolius</i>	Pineneedle Beardtongue	x		Herbaceous	Sun		5	x	6	
<i>Perovskia atriplicifolia</i>	Russian Sage		x	Herbaceous	Sun		1			X
<i>Phlox subulata</i>	Moss Phlox	x		Herbaceous	Sun / partial	x	1,5	x	6	
<i>Pulsatilla vulgaris</i>	Pasque Flower	x		Herbaceous	Sun / partial		1			X
<i>Ratiba columnifera</i>	Upright Prairie Coneflower	x		Herbaceous	Sun		5	x	6	
<i>Rhus aromatica</i> 'Gro-Low'	Fragrant Sumac 'Gro-Low'		x	Shrub	Sun / partial	x	1			X
<i>Rosa carolina</i>	Carolina Rose		x	Shrub	Sun / partial	x	1			X
<i>Salvia azurea</i> var. <i>grandiflora</i>	Blue Sage		x	Herbaceous	Sun		1			X
<i>Schizachyrium scoparium</i>	Little Bluestem		x	Grass	Sun	x	1,5	x	6	
<i>Sesleria caerulea</i>	Blue Moor Grass	x		Grass	Sun / partial		1,5	x	6	
<i>Solidago bicolor</i> (<i>Oligoneuron album</i>)	White Goldenrod	x		Herbaceous	Sun / partial	x	1			X
<i>Solidago rigida</i> (<i>Oligoneuron rigidum</i>)	Stiff Goldenrod		x	Herbaceous	Sun	x	1,5	x	6	
<i>Sporobolus heterolepis</i>	Prairie Dropseed		x	Grass	Sun		1,3,5	x	6	
<i>Symphotrichum ericoides</i>	Heath Aster	x		Herbaceous	Sun	x	1			X
<i>Tradescantia</i> spp.	Spiderwort	x		Herbaceous		x	1			X
References										
(1) Illinois - "An Evaluation Study of Plants for Use on Green Roofs", Chicago Botanic Garden, www.chicagobotanic.org/downloads/planteval_notes/no38_greenroofplants.pdf										
(2) DC Region - Green Roof Plants, Snodgrass & Snodgrass, 2006										
(3) Michigan - MSU Green Roof Plant Evaluations - http://www.hrt.msu.edu/greenroof/research-projects/plant-evaluations.html										
(4) Michigan - Monterusso, Rowe, Rugh, HortScience, 2005										
(5) DC Region - personal communications (Oscar Warmerdam)										
* species as recommended by regional green roof growers and maintenance specialists										

Green Area Ratio Plant List

Species Not Permitted as New Plantings												
Plant Invaders of Mid-Atlantic Natural Areas												
http://www.nps.gov/plants/alien/pubs/midatlantic/												
Mid-Atlantic Exotic Pest Plant Council Plant List - (Reported Invasive in DC, MD, VA)												
http://www.invasive.org/maweeds.cfm												
Virginia Invasive Plant Species List												
http://www.dcr.virginia.gov/natural-heritage/document/nh-invasive-plant-list-2014.pdf												
References												
DDOT Green Infrastructure Standards Plant List, 2014												
Casey Trees Urban Tree Selection Guide, 2014												
Missouri Botanical Garden Plant Finder, http://www.missouribotanicalgarden.org												
Manual of Woody Landscape Plants, Dirr, M. 4th Edition												

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References												
	DDOT Green Infrastructure Standards Plant List, 2014											
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	An Evaluation Study of Plants for Use on Green Roofs", Chicago Botanic Garden, http://www.chicagobotanic.org											
	Green Roof Plants, Snodgrass & Snodgrass, 2006											
	MSU Green Roof Plant Evaluations - http://www.hrt.msu.edu/greenroof/research-projects/plant-evaluations.html											
	Monterusso, Rowe, Rugh, HortScience, 2005											