

## BMP Landscaping & Plant Lists

### General Landscaping Guidance

Vegetation is a crucial component of the Best Management Practices (BMPs) detailed in the Manual. Vegetation not only influences the beauty and aesthetic of the physical environment however it also performs a critical function in the performance of BMPs. Current research confirms the valuable role of plants, plant roots and soil in neutralizing, filtering, and taking up pollutants.

Thus it is important to select plants and plant communities which thrive and perform in various site conditions. Understanding the site's sun exposure, soil conditions, moisture conditions will inform the designer on the appropriate plant palette to use in particular BMPs. As mentioned previously, it is recommended that projects be designed by landscape architects and/or horticulturalists with knowledge of native plants, local sources of native plants, as well as experience in the design, installation and management of the BMPs.

Each site and each BMP require tailoring a planting plan to the various conditions, constraints and subtle nuances of topography, lighting, infiltration, drainage, and flood control strategies. The obvious design considerations are site context, site programming, microclimates, topography, irrigation potential, seasonal interest, and maintenance. The more delicate design considerations are extended ponding times, slight variations in planting zones, water velocity, habitat creation, and design controls which perform in extreme rain events. Yet another is the goal of achieving an aesthetic setting which may be "cultivated" versus "naturalistic."

The plants are grouped by: (1) trees, (2) shrubs, (3) perennials/annuals, (4) grasses and grass-like, and (5) ferns.

This Plant List section is a reproduction from the West Virginia Stormwater Management and Design Guidance Manual

West Virginia Department of Environmental Protection

November 2012



# Appendix C - Planting List

Stormwater BMP Plant List									
Plant	Light	Wetland Indicator <sup>1</sup>	Inundation Tolerance	Notes	Conservation & Landscaping	Bioretention	Regenerative Stormwater Conveyance	Stormwater Wetland*	
<b>Trees</b>									
<i>Acer negundo</i> Box Elder	Sun	FAC+	Yes	Flood tolerant; Winter food source for birds & mammals	●				
<i>Acer pennsylvanicum</i> Striped Maple	Part Shade-Full Shade	FACU	No	Attractive flowers; High wildlife value		●			
<i>Acer rubrum</i> Red Maple	Full Sun-Part Shade	FAC	Seasonal	Drought & flood tolerant; Attractive flowers (early spring) & fruit		●		●	
<i>Acer saccharinum</i> Silver Maple	Full Sun-Part Shade	FACW	Yes	Flood tolerant; Winter food source for birds & mammals		●		●	
<i>Acer saccharum</i> Sugar Maple	All Light	FACU-	Moderate	Tolerates moisture; Maple syrup; High wildlife value; Fall color	●				
<i>Aesculus flava</i> Yellow Buckeye	All Light	NI	Moderate	Tolerates moisture; Attractive flowers & fruit	●				
<i>Aesculus glabra</i> Ohio Buckeye	All Light	FACU+	Moderate	Tolerates moisture; Attractive flowers & fruit	●				
<i>Alnus incana</i> spp. <i>Rugosa</i> Speckled Alder	Full Sun-Part Shade	FACW+	Yes	Flood tolerant; Attractive flowers; Winter food source for birds		●		●	
<i>Amelanchier arborea</i> Common Serviceberry	All Light	FAC-	Yes	Drought & flood tolerant; Attractive flowers; High wildlife value; Edible fruit (human)	●	●			
<i>Amelanchier canadensis</i> Shadblow, Serviceberry	All Light	FAC	Yes	Drought & flood tolerant; Winter food source for birds & mammals	●	●	●	●	
<i>Amelanchier laevis</i> Allegheny Serviceberry	All Light	NI	Yes	Moderate flood tolerance; Drought intolerance; Attractive fruit; Fragrant flowers; Winter food source for birds; Edible fruit	●	●		●	

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<i>Aralia spinosa</i> Devil's Walking Stick	Part Shade	FAC	No	Flood tolerant; Attractive flowers; Winter food source for birds	●			●
<i>Asimina triloba</i> Pawpaw	Full Sun	FACU+	No	Flood tolerant; Attractive flowers; Food source for birds & mammals	●			
<i>Betula alleghaniensis</i> Yellow Birch	Part Shade Full Shade	FAC	Yes	Attractive peeling bark; Yellowfall color; High wildlife value; Prefers cool & moist environment	●			
<i>Betula lenta</i> Sweet Birch	Full Sun- Part Shade	FACU	No	Attractive scaly bark; Aromatic; Golden yellow fall color; High wildlife value; Sap used to make birch beer	●			
<i>Betula nigra</i> River Birch	Full Sun- Part Shade	FACW	Seasonal	Drought & flood tolerant; Attractive exfoliating bark; High wildlife value	●	●	●	●
<i>Carpinus caroliniana</i> Ironwood, Am Hornbeam	Part Shade Full Shade	FAC	Moderate	Flood tolerant; Good fall color; Significant wildlife value	●	●	●	●
<i>Carya alba</i> Mockernut Hickory	Part Shade	NI	No	Bright yellow fall color; Edible nuts; Significant wildlife value; Host for moths	●			
<i>Carya cordiformis</i> Bitternut Hickory	Full Sun- Part Shade	FACU+	Moderate	Flood tolerant; Yellow fall color; Significant wildlife value; Host for moths	●	●	●	●
<i>Carya glabra</i> Pignut Hickory	Full Sun- Part Shade	FACU-	No	Flood intolerant; Golden yellow fall color; Moderate wildlife value & host for moths	●			
<i>Carya ovata</i> Shagbark Hickory	Full Sun- Part Shade	FACU-	Moderate	Moderate moisture; Attractive peeling bark; Moderate wildlife value; Edible nuts	●			
<i>Celtis laevigata</i> Sugarberry	Full Sun- Part Shade	FACW	Yes	<b>Drought &amp; flood tolerant; Significant food source for birds; Host for moths; Urban Tree</b>	●	●	●	●

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<i>Celtis occidentalis</i> Common Hackberry	All Light	FACU	Seasonal	Drought & flood tolerant; One of the best food & shelter plants for wildlife; Butterfly larvae host	●	●	●	●
<i>Cercis canadensis</i> Redbud	Full Sun-Part Shade	FACU-	No	Drought tolerant; Attractive flowers; Food source; Multi-stem	●			
<i>Chamaecyparis thyoides</i> ** Atlantic White Cedar	Part Shade Full Shade	OBL	Yes	Flood tolerant; Attractive berries; Evergreen		●	●	●
<i>Chionanthus virginicus</i> Fringe Tree	Full Sun-Part Shade	FAC+	Yes	Flood tolerant; Attractive flowers; Food source for birds	●	●	●	
<i>Cornus alternifolia</i> Pagoda Dogwood	Part Shade Full Shade	NI	No	Attractive flowers; Very significant wildlife value	●			
<i>Cornus florida</i> Flowering Dogwood	All Light	FACU-	Moderate	Attractive flowers; High wildlife value (migratory birds)	●	●		
<i>Crataegus phaenopyrum</i> Washington Hawthorn	Part Shade Full Shade	FAC	Moderate	Attractive flowers; Significant wildlife value	●	●		
<i>Crataegus crus-galli</i> Cockspur Hawthorn	Full Sun-Part Shade	FACU	No	Attractive flowers; Significant wildlife value	●			
<i>Crataegus viridis</i> Green Hawthorn	Full Sun-Part Shade	FACW	Moderate	Attractive flowers; Significant wildlife value	●	●	●	●
<i>Diospyros virginiana</i> Persimmon	Full Sun-Part Shade	FAC-	No	Flood & drought tolerant; Attractive flowers; High wildlife value; Edible fruit	●			●
<i>Fagus grandifolia</i> American Beech	Full Sun-Part Shade	FACU	Moderate	Flood & drought tolerant; High wildlife value; Attractive bark; Edible nuts	●			

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<i>Fraxinus americana</i> White Ash	Full Sun-Part Shade	FACU	Moderate	Can be weedy; Flood & drought tolerant; Significant wildlife Value	●	●			
<i>Fraxinus pennsylvanica</i> Green Ash	Full Sun-Part Shade	FACW	Moderate	Can be weedy; Flood & drought tolerant; Significant wildlife value	●	●	●	●	
<i>Ilex opaca</i> American Holly	All Light	FACU+	Limited	Flood & drought tolerant; Winter food source for birds; Evergreen	●	●	●	●	
<i>Juniperus virginiana</i> Eastern Red Cedar	Full Sun	FACU	No	Pollution tolerant; Significant food source for birds	●		●	●	
<i>Liquidambar styraciflua</i> Sweet Gum	Full Sun-Part Shade	FAC	Moderate	Significant food source	●			●	
<i>Liriodendron tulipifera</i> Tulip Poplar	Full Sun-Part Shade	FACU	Moderate	Significant food source	●			●	
<i>Magnolia tripetala</i> Umbrella Magnolia	Part Shade	FACU	No	Attractive flowers; Winter food source for birds	●				
<i>Magnolia virginiana</i> ** Sweetbay Magnolia	Full Sun-Part Shade	FACW	Yes	Attractive flowers; High wildlife value; Evergreen	●	●	●		
<i>Nyssa sylvatica</i> Black Gum	All Light	FACW+	Seasonal	Flood & drought tolerant; Attractive fall color	●	●	●	●	
<i>Pinus rigida</i> Pitch Pine	Full Sun	FACU	No	High wildlife value; Evergreen	●		●	●	
<i>Pinus taeda</i> ** Loblolly Pine	Full Sun	FAC-	No	High wildlife value; Evergreen	●		●	●	
<i>Platanus occidentalis</i> American Sycamore	Full Sun	FACW-	Moderate	High wildlife value	●			●	

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<i>Populus deltoides</i> Eastern Cottonwood	Full Sun	FAC	Seasonal	Drought tolerant; High wildlife value	●				
<i>Prunus virginiana</i> Chokecherry	Full Sun	FACU	No	Tolerates some salt; Can be maintained as hedge	●				
<i>Quercus ssp</i> Oak Family	All Light	NI	Seasonal	Quercus family provides significant wildlife value	●	●			
<i>Quercus bicolor</i> Swamp Oak	Full Sun-Part Shade	FACW+	Seasonal	Flood & drought tolerant; High wildlife value	●	●		●	
<i>Quercus michauxii</i> ** Swamp Chestnut Oak	Full Sun	FACW+	Seasonal	High wildlife value	●	●		●	
<i>Quercus palustris</i> Pin Oak	Full Sun	FACW	Yes	Flood & drought tolerant; High wildlife value	●	●		●	
<i>Sassafras albidum</i> Sassafras	All Light	FACU-	No	Flood & drought tolerant; Attractive flowers; High wildlife value	●				
<i>Taxodium distichum</i> ** Bald Cypress	Full Sun-Part Shade	OBL	Yes	Flood tolerant; Food source for waterfowl		●	●	●	
<b>Shrubs</b>									
<i>Aesculus pavia</i> ** Red Buckeye	Full Sun-Part Shade	FAG	No	Flood and drought tolerant; Attractive flowers; Winter food source for birds	●				
<i>Alnus serrulata</i> Hazel Alder	Full Sun-Part Shade	OBL	Yes	Attractive flowers; High wildlife value		●	●	●	
<i>Calycanthus floridus</i> Eastern Sweetshrub	All Light	NI	No	Flood & drought tolerant; Attractive flowers	●				

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<i>Ceanothus americanus</i> New Jersey Tea	Part Shade Full Shade	NI	No	Flood & drought tolerant; Attractive flowers	●				
<i>Cephalanthus occidentalis</i> Buttonbush	All Light	OBL	Yes	Flood & drought tolerant; Attractive flowers; Significant wildlife value	●	●		●	
<i>Castanea pumila</i> Chinkapin	Full Sun- Part Shade	NI	No	Significant wildlife value	●				
<i>Clethra alnifolia</i> ** Sweet Pepperbush	Part Shade Full Shade	FAC+	Yes	Very high wildlife value; Very fragrant	●	●	●	●	
<i>Comptonia peregrina</i> Sweet Fern	Full Sun- Part Shade	NI	No	High wildlife value	●				
<i>Cornus alternifolia</i> Alternateleaf Dogwood	Full Sun- Part Shade	NI	No	Flood tolerant; High wildlife value	●				
<i>Cornus amomum</i> Silky Dogwood	Full Sun- Part Shade	FACW	Seasonal	High wildlife value	●	●		●	
<i>Cornus racemosa</i> Gray Dogwood	Part Shade Full Shade	NI	No	Attractive flowers; High wildlife value	●			●	
<i>Cornus sericea</i> Red Osier Dogwood	Full Sun- Part Shade	FACW+	No	Attractive flowers, fruit and stems	●	●		●	
<i>Corylus Americana</i> American Hazelnut	Full Sun- Part Shade	FACU+	No	Drought tolerant; Attractive flowers; Edible fruit	●				
<i>Euonymus americanus</i> American Strawberry Bush	Part Shade Full Shade	FAC	No	Flood & drought tolerant; Attractive berries; High wildlife value	●			●	
<i>Gaylussacia baccata</i> Black Huckleberry	All Light	FACU	No	Flood & drought tolerant; Attractive berries; High wildlife value	●				

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<i>Gaylussacia dumosa</i> Dwarf Huckleberry	All Light	FAC	No	Flood & drought tolerant; Attractive berries; High wildlife value	●			
<i>Hamamelis virginiana</i> Witchhazel	All Light	FAC_	No	Attractive flowers; Winter food source for birds & mammals	●			
<i>Hydrangea arborescens</i> Wild Hydrangea	Part Shade Full Shade	FACU	No	Attractive flowers	●			
<i>Hypericum densiflorum</i> Dense St. John's Wort	Full Sun- Part Shade	FAC+	No	Flood tolerant; Attractive flowers; Semi-Evergreen	●			
<i>Hypericum prolificum</i> Shrubby St. John's Wort	Part Shade Full Shade	FACU	No	Flood & drought tolerant; Attractive flowers; Semi-Evergreen	●			
<i>Ilex glabra</i> ** Inkberry	All Light	FACW-	Seasonal	Flood & drought tolerant; High wildlife value; Evergreen	●	●	●	●
<i>Ilex laevigata</i> ** Smooth Winterberry	Full Sun- Part Shade	OBL	Yes	Flood & drought tolerant; High wildlife value	●	●	●	●
<i>Ilex verticillata</i> Winterberry	All Light	FACW+	Seasonal	Flood & drought tolerant; High wildlife value	●	●	●	●
<i>Itea virginica</i> ** Virginia Sweetspire	All Light	OBL	Yes	Attractive flowers; Poisonous to hoofed browsers; Evergreen	●	●	●	●
<i>Kalmia angustifolia</i> Sheep Laurel	Part Shade Full Shade	FAC	Moderate	Attractive flowers; Poisonous to hoofed browsers; Evergreen	●			
<i>Kalmia latifolia</i> Mountain Laurel	Full Shade	FACU	Moderate	Flood & drought tolerant; High wildlife value; All parts edible	●		●	
<i>Lindera benzoin</i> Spicebush	All Light	FACW-	Yes	Flood tolerant; Attractive flowers; Winter food source for birds	●	●	●	●



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<i>Lyonia ligustrina</i> Maleberry	Part Shade Full Shade	FACW	Yes	Flood tolerant; Attractive flowers; Winter food source for birds	●	●		●	
<i>Morella pensylvanica</i> ** Northern Bayberry	Full Sun- Part Shade	FAC	No	Flood & drought tolerant; Food source for birds; Evergreen	●	●	●	●	
<i>Photinia melanocarpa</i> Black Chokeberry	Full Sun	FAC	No	Flood & drought tolerant; Attractive flowers; Significant wildlife value	●				
<i>Photinia pyrifolia</i> Red Chokeberry	Full Sun	FACW	Yes	Flood & drought tolerant; Attractive flowers; Significant wildlife value	●	●		●	
<i>Physocarpus opulifolius</i> Ninebark	Full Sun- Part Shade	FACW	Yes	Flood & drought tolerant; Attractive flowers; High wildlife value	●	●			
<i>Rhodo. Atlanticum</i> ** Dwarf Azalea	Part Shade	FAC	No	Drought tolerant; Fragrant flowers; Food source for birds; Long lived	●				
<i>Rhodo. calendulaceum</i> Flame Azalea	Full Sun- Part Shade	NI	No	Drought and flood tolerant; Fragrant flowers; Food source for birds	●				
<i>Rhodo. catawbiense</i> Catawba Rosebay	Part Shade Full Shade	NI	No	Attractive flowers; Evergreen	●				
<i>Rhodo. maximum</i> Great Laurel	Part Shade Full Shade	FAC	No	Flood & drought tolerant; Moderate food source; Evergreen	●				
<i>Rhodo. periclymenoides</i> Pink Azalea	Part Shade Full Shade	FAC	No	Flood & drought tolerant; Attractive flowers; Significant food source	●				
<i>Rhodo. prinophyllum</i> Early Azalea	Part Shade Full Shade	FAC	No	Flood & drought tolerant; Attractive flowers;	●				
<i>Rhodo. viscosum</i> Swamp Azalea	Part Shade Full Shade	OBL	Yes	Flood tolerant; Attractive flowers; Significant food source		●	●	●	

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<i>Rhus aromatic</i> Fragrant Sumac	Allo Light	NI	No	Flood & drought tolerant; Attractive flowers & fall color; High wildlife value	●	●		
<i>Sambucus nigra</i> ssp. <i>canadensis</i> Elderberry	Full Sun	FACW	Yes	Flood & drought tolerant; Attractive flowers; High wildlife value	●	●		●
<i>Spiraea alba</i> Meadowsweet	Full Sun- Part Shade	FACW+	Yes	Flood tolerant; Attractive flowers & stems; Significant wildlife	●			●
<i>Spiraea tomentosa</i> Steeplebush	Full Sun- Part Shade	FACW	Yes	Flood & drought tolerant; Attractive flowers; Significant wildlife value	●			●
<i>Staphylea trifolia</i> Bladdernut	Part Shade Full Shade	FAC	No	Flood & drought tolerant; Significant food source for mammals	●	●		●
<i>Symphoricarpos orbiculatus</i> Coralberry	All Light	UPL	No	Flood & drought tolerant; Attractive flowers; Winter food source for birds	●			
<i>Vaccinium angustifolium</i> Lowbush Blueberry	Full Sun- Part Shade	FACU-	No	Drought tolerant; Attractive and edible fruit; High wildlife value	●	●	●	●
<i>Vaccinium corymbosum</i> Highbush Blueberry	Full Sun- Part Shade	FACW-	Yes	Drought & flood tolerant; Attractive and edible fruit; High wildlife value	●	●	●	●
<i>Vaccinium macrocarpon</i> Cranberry	Full Sun- Part Shade	OBL	Yes	Edible fruit; High wildlife value		●	●	●
<i>Viburnum acerifolium</i> Mapleleaf Viburnum	All Light	UPL	No	Flood & drought tolerant; High wildlife value; Edible berries	●			
<i>Viburnum dentatum</i> Arrowwood	All Light	FAC	No	Flood & drought tolerant; Attractive flowers; High wildlife value	●			●
<i>Viburnum nudum</i> Possumhaw Viburnum	All Light	OBL	Yes	Flood & drought tolerant; High wildlife value	●	●		●

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<i>Viburnum prunifolium</i> Blackhaw	Full Sun- Part Shade	FACU	No	Drought tolerant; High wildlife value; Edible berries	●				
<b>HERBACEOUS</b>									
<i>Aconitum uncinatum</i> Southern Blue Monkshood	Full Sun- Shade	NI	No	Attractive flowers; Poisonous	●				
<i>Agave virginica</i> ( <i>Manfreda virginica</i> ) False Aloe	Full Sun- Part Shade	NI	No	Attractive foliage	●				
<i>Amsonia tabernaemontana</i> * Eastern Bluestar	Part Shade	FACW	Moderate	Attractive flowers	●	●		●	
<i>Anemone virginiana</i> Thimbleweed	Full Sun- Part Shade	NI	No	Attractive flowers	●	●			
<i>Aquilegia canadensis</i> Red Columbine	Part Sun- Shade	FAC	Yes	Attractive flowers; Attracts humming-birds	●	●			
<i>Aralia racemosa</i> Spikenard	Full Sun- Shade	NI	Yes	Attractive flowers; Attractive fruit	●				
<i>Arisaema dracontium</i> Green Dragon	Full Shade	FACW	Yes	Attractive bladed foliage			●	●	
<i>Arisaema triphyllum</i> Jack-in-the-Pulpit	Part Sun- Shade	FACW-	Saturated	Attractive flowers; Attractive fruit			●	●	
<i>Asarum canadense</i> Canadian Wild Ginger	Part Sun- Shade	NI	Yes	Attractive flowers	●				
<i>Asclepias incarnata</i> Swamp Milkweed	Full Sun- Part Shade	OBL	Saturated	Drought tolerant		●	●	●	

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<i>Asclepias tuberosa</i> Butterfly Weed	Full Sun	NI	No	Attractive flowers; Drought tolerant	●	●			
<i>Aster novae-angliae</i> New England Aster	Full Sun- Part Shade	FACW+	Yes	Attractive flowers; Drought tolerant	●	●		●	
<i>Baptisia australis</i> Blue False Indigo	Full Sun	NI	Moderate	Attractive flowers & fruit; Drought & flood tolerant	●	●			
<i>Caltha palustris</i> Marsh Marigold	Full Sun- Part Shade	OBL	Yes	Attractive flowers; Flood tolerant		●	●	●	
<i>Chelone glabra</i> White Turtlehead	Full Sun- Part Shade	OBL	Saturated	Excellent growth; herbal uses		●		●	
<i>Chrysogonum virginianum</i> Green and Gold	All Light	NI	Yes	Attractive flowers; Drought & flood tolerant	●				
<i>Conoclinium coelestinum</i> Mist Flower	Full Sun- Part Shade	FAC	No	Attractive flowers; Drought tolerant	●	●			
<i>Coreopsis auriculata</i> Lobed Tickseed	Full Sun- Part Shade	NI	No	Attractive flowers; Drought tolerant; Evergreen	●	●			
<i>Coreopsis lanceolata</i> Lanceleaf Tickseed	Full Sun- Part Shade	FACU	No	Attractive flowers; Drought tolerant; Evergreen	●	●			
<i>Coreopsis tinctoria</i> Golden Tickseed (Annual)	Full Sun- Part Shade	FAC-	No	Attractive flowers; Drought tolerant; (Annual)	●	●			
<i>Coreopsis verticillata</i> Whirled Tickseed	Full Sun- Part Shade	NI	No	Attractive flowers; Drought tolerant; (Annual)	●	●			
<i>Dicentra canadensis</i> Squirrel Corn	Shade	NI	Yes	Attractive flowers	●				

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<i>Delphinium exaltatum</i> Tall Larkspur	Full Sun- Part Shade	NI	Yes	Attractive flowers; Flood tolerant	●				
<i>Echinacea purpurea</i> Purple Coneflower	Full Sun- Part Shade	NI	No	Attractive flowers; Drought & flood tolerant	●	●			
<i>Eupatoriadelphus fistulosus</i> Joe Pye Weed	Full Sun- Part Shade	FACW	Saturated	Attractive flowers; Drought & flood tolerant		●			
<i>Eupatorium coelestinum</i> Mist Flower	Full Sun- Part Shade	FAC	Yes	Attractive flowers; Drought & flood tolerant		●		●	
<i>Eupatorium dubium</i> Joe Pye Weed	Full Sun- Part Shade	FACW	Yes	Attractive flowers; High wildlife value		●		●	
<i>Eupatorium perfoliatum</i> Boneset	All Light	FACW+	Saturated	Attractive flowers; Flood tolerant		●		●	
<i>Euphorbia corollata</i> Flowering Spurge	Full Sun	NI	No	Attractive flowers; Drought tolerant	●				
<i>Eurybia divaricata</i> White Wood Aster	Part Sun- Shade	NI	No	Attractive flowers; Drought tolerant	●				
<i>Filipendula rubra</i> Queen of the Prairie	Part Sun- Shade	FACW	Yes	Attractive flowers; Flood tolerant		●		●	
<i>Gaultheria procumbens</i> Eastern Teaberry	Part Sun- Shade	FACU	No	Attractive flowers & berries	●				
<i>Gentiana andrewsii</i> Bottle Gentian	Part Sun- Shade	FACW	Yes	Attractive flowers; Flood tolerant		●		●	
<i>Geranium maculatum</i> Spotted Geranium	All Light	FACU	No	Attractive flowers; Flood tolerant; Semi-evergreen.	●				

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<i>Helenium autumnale</i> Sneezeweed	Full Sun	FACW+	Saturated	Attractive flowers; Flood tolerant		●		●
<i>Helianthus angustifolius</i> Swamp Sunflower	Full Sun	FACW	Yes	Attractive flowers; Drought & flood tolerant		●		V
<i>Heuchera americana</i> American Alumroot	All Light	FACU	No	Semi-Evergreen	●			
<i>Hibiscus moscheutos</i> Red-Eyed Marsh Mallow	Full Sun	OBL	Yes	Attractive flowers; Flood tolerant		●		●
<i>Hydrastis canadensis</i> Goldenseal	Part Sun- Shade	NI	No	Attractive flowers	●			
<i>Iris cristata</i> Dwarf Crested Iris	All Light	OBL	Yes	Attractive flowers; Flood tolerant		●		●
<i>Iris virginica</i> Virginia Iris	Full Sun- Part Shade	OBL	Yes	Attractive flowers; Flood tolerant		●		●
<i>Liatris spicata</i> Dense Gayfeather	Full Sun	FAC+	No	Attractive flowers; Drought tolerant		●		●
<i>Liatris squarrosa</i> Blazing Star	Full Sun	NI	No	Attractive flowers; Drought tolerant		●		●
<i>Lilium superbum</i> Turk's-Cap Lily	Full Sun	FACW+	Yes	Attractive flowers; Flood tolerant				●
<i>Lobelia cardinalis</i> Cardinal Flower	Full Sun- Part Shade	FACW+	Yes	Attractive flowers; Flood tolerant; Long Bloom Time		●		●
<i>Lobelia siphilitica</i> Great Blue Lobelia	Part Shade Full Shade	NI	Yes	Blooms in late summer; bright blue flowers		●		●

Stormwater BMP Plant List									
Plant	Light	Wetland Indicator <sup>1</sup>	Inundation Tolerance	Notes	Conservation & General BMP Landscaping	Bioretention	Regenerative Stormwater Conveyance	Stormwater Wetland*	
<i>Lupinus perennis</i> Sundial Lupine	Part Shade Full Shade	OBL	No	Attractive flowers; Flood tolerant	●				
<i>Lysimachia terrestris</i> Swamp Candles	Full Sun- Part Shade	NI	Yes	Attractive flowers; Flood tolerant				●	
<i>Meehania cordata</i> Meehan's Mint	Part Shade Full Shade	FACW	No	Attractive flower; Semi-evergreen groundcover	●				
<i>Mertensia virginica</i> Virginia Bluebells	Part Shade Full Shade	OBL	Yes	Attractive flowers; Flood tolerant	●	●	●	●	
<i>Mimulus ringens</i> Monkeyflower	Full Sun- Part Shade	FAC+	Yes	Attractive flower; Long summer bloomer		●	●	v	
<i>Monarda didyma</i> Beebalm	Full Sun- Part Shade	FAC+	Saturated	Attractive flower; Flood tolerant; Herbal uses	●	●	●	●	
<i>Monarda fistulosa</i> Wild Bergamot	Full Sun- Part Shade	FAC+	Yes	Attractive flower; Flood tolerant	●	●	●		
<i>Nuphar lutea</i> 'Advena' Yellow Pond Lily	Full Sun- Part Shade	OBL	Yes	Attractive flower; High wildlife value		●	●	●	
<i>Oenothera fruticosa</i> Evening Primrose	All Light	FAC	No	Attractive flower	●				
<i>Orontium aquaticum</i> Goldclub	Full Sun	OBL	Yes	Attractive spike		●	●	●	
<i>Packera aurea</i> (Senecio aureus) Golden Ragwort	All Light	FACW	Yes	Attractive flower; Flood tolerant	●	●	●		
<i>Penstemon canescens</i> Eastern Grey Beardtongue	Part Shade	NI	No	Attractive flower; Drought tolerant	●				

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Stormwater BMP Plant List									
Plant	Light	Wetland Indicator <sup>1</sup>	Inundation Tolerance	Notes	Conservation & Landscaping	Bioretenition	Regenerative Stormwater Conveyance	Stormwater Wetland*	
<i>Peltandra virginica</i> Arrow Arum	Full Sun- Part Shade	OBL	Yes	Attractive flower; Food source for ducks				●	
<i>Penstemon digitalis</i> Beardtongue	Full Sun	FAC	No	Attractive flower; Drought & flood tolerant; Semi-Evergreen	●	●			
<i>Penstemon laevigatus</i> Eastern Smooth Beardtongue	Part Shade Shade	FACU	No	Attractive flower; Drought & flood tolerant	●				
<i>Phlox davaricata</i> Wild Blue Phlox	Part Shade Shade	FACU	No	Attractive flower; Semi-Evergreen	●	●			
<i>Phlox stolonifera</i> Creeping Phlox	Part Shade Shade	UPL	No	Attractive flower; Semi-Evergreen	●	●			
<i>Physostegia virginiana</i> Obedient Plant	All Light	FAC+	No	Attractive flowers; Flood tolerant	●	●			
<i>Polemonium reptans</i> Jacob's Ladder	Part Shade Shade	FACU	No	Attractive flowers; Flood tolerant	●	●			
<i>Pontederia cordata</i> Pickersweed	Full Sun	OBL	Yes	Attractive flowers; Flood tolerant				●	
<i>Porteranthus trifoliatus</i> ( <i>Gillenia trifoliata</i> ) Bowman's Root	Full Sun- Part Shade	NI	No	Attractive flowers	●				
<i>Pycnanthemum incanum</i> Hoary Mountainmint	Full Sun- Part Shade	FAC+	No	Attractive flowers	●	●			
<i>Rhexia mariana</i> Meadow-Beauty	Full Sun- Part Shade	OBL	Yes	Attractive flowers; Flood tolerant		●	●	●	
<i>Rudbeckia fulgida</i> Black-Eyed Susan	Full Sun- Part Shade	FAC	No	Attractive flower; Drought & flood tolerant	●	●			

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<i>Rudbeckia hirta</i> Brown-Eyed Susa	Full Sun-Part Shade	FACU-	No	Attractive flower; Drought & flood tolerant (Annual)	●	●	●	●	
<i>Sagittaria latifolia</i> Duck Potato	Full Sun-Part Shade	OBL	Yes	Attractive flowers; Food source for many ducks				●	
<i>Sanguinaria canadensis</i> Bloodroot	Full Sun-Part Shade	NI	No	Attractive flowers early spring	●				
<i>Sanguisorba canadensis</i> Canadian Burnet	Full Sun	FACW+	Yes	Attractive flowers; Flood tolerant	●	●	●	●	
<i>Saururus cernuus</i> Lizard's Tail	Full Sun-Part Shade	OBL	Yes	Attractive flowers; Flood tolerant				●	
<i>Scutellaria ovata</i> Heartleaf Skullcap	Part Shade Shade	NI	No	Attractive flower; Evergreen	●				
<i>Senna hebecarpa</i> American Senna	Full Sun-Part Shade	FAC	Yes	Attractive flower; Drought & flood tolerant	●	●			
<i>Sisyrinchium angustifolium</i> Blue-Eyed Grass	Full Sun-Part Shade	FACW-	Yes	Attractive flower; Drought & flood tolerant	●	●	●	●	
<i>Solidago spp</i> Goldenrod	Full Sun-Part Shade	FACU	No	Attractive flower; Drought & flood tolerant	●	●	●		
<i>Solidago sempervirens</i> ** Seaside Goldenrod	Full Sun-Part Shade	FACW	Yes	Dense & long blooming attractive flowers		●		●	
<i>Spigelia marilandica</i> ** Woodland Pinkroot	Part Shade Shade	NI	No	Attractive flowers; Colonizer	●				
<i>Spiranthes cernue</i> Lady's Tresses	Full Sun-Part Shade	FACW	Yes	Attractive flower			●	●	

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<i>Symphotrichum laeve</i> Smooth Blue Aster	Full Sun- Part Shade	NI	No	Attractive flower	●	●	●		
<i>Symphotrichum novaeangliae</i> New England Aster	Full Sun- Part Shade	FACW-	No	Attractive flower; Drought & flood tolerant	●	●	●		
<i>Tiarella cordifolia</i> Foam Flower	Part Shade Shade	FAC-	No	Attractive flower; Semi-Evergreen	●	●			
<i>Tradescantia virginiana</i> Spiderwort	All Light	FACU	No	Attractive flower	●	●			
<i>Verbena hastata</i> Blue Vervain	Full Sun	FACW+	Yes	Attractive flowers		●		●	
<i>Vernonia noveboracensis</i> Ironweed	Full Sun- Part Shade	FACW+	Yes	Attractive flower; Can be invasive		●		●	
<i>Veronicastrum virginicum</i> Culver's Root	Full Sun- Part Shade	FACU	No	Attractive flower; Flood tolerant	●	●			
<i>Viola labradorica</i> Alpine Violet	Full Sun- Part Shade	FAC	No	Attractive flower	●				
<i>Waldstenia fragarioides</i> Barren Strawberry	Full Sun- Part Shade	NI	No	Attractive flower; Groundcover	●				
<i>Zizia aurea</i> Golden Zizia	Full Sun- Part Shade	FAC	No	Attractive flower; Drought & flood tolerant	●				
<b>Grasses (or Grass-Like)</b>									
<i>Andropogon gerardii</i> Big Bluestem	Full Sun	FAC	Moderate	Forms clumps; Flood tolerant; Winter interest	●	●		●	

Stormwater BMP Plant List									
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<i>Andropogon virginicus</i> Broom-Sedge	Full Sun	FACU	No	Attractive fall color; Drought and flood tolerant	●	●	●	●	
<i>Arundinaria gigantea</i> Giant Cane	All Light	FACW	Yes	Attractive fruit; Drought and flood tolerant		●	●	●	
<i>Carex crinita</i> Fringed Sedge	All Light	OBL	Yes	Flood tolerant		●	●	●	
<i>Carex laxiculmis</i> Spreading Sedge	All Light	NI	No	Evergreen; Spreads; Good groundcover	●				
<i>Carex lurida</i> Shallow Sedge	All Light	OBL	Yes	Flood tolerant		●	●	●	
<i>Carex stricta</i> Tussock Sedge	All Light	OBL	Yes	Flood tolerant	●	●	●	●	
<i>Chasmanthium latifolium</i> River Oats	All Light	FACU	No	Attractive fruit; Drought and flood tolerant	●	●	●	●	
<i>Dichanthelium clandestinum</i> Deertongue	Full Sun	FAC+	No	Flood tolerant			●	●	
<i>Elymus riparius</i> Riverbank Wild Rye	Part Shade Full Shade	FACW	Yes	Flood tolerant		●	●	●	
<i>Elymus virginicus</i> Virginia Wild Rye	Part Shade Full Shade	FACW-	No	Attractive fruit; Drought and flood tolerant; Adaptable		●	●	●	
<i>Juncus effusus</i> Soft Rush	Full Sun	FACW+	Yes	Flood tolerant		●	●	●	
<i>Juncus torreyi</i> Torrey's Rush	Full Sun	FACW	Yes	Flood tolerant				●	

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Stormwater BMP Plant List									
Plant	Light	Wetland Indicator <sup>1</sup>	Inundation Tolerance	Notes	Conservation & Landscaping	Biorentention	Regenerative Stormwater Conveyance	Stormwater Wetland*	
<i>Leersia oryzoides</i> Rice Cutgrass	Full Sun- Part Shade	OBL	Yes	Flood tolerant; Good for stabilization & erosion control; Food source for birds				●	
<i>Panicum virgatum</i> Switch Grass	Full Sun	FAC	No	Attractive fruit; Drought and flood tolerant	●	●		●	
<i>Scirpus atrovirens</i> Green Bullrush	Full Sun	PBL	Yes	Food & cover for numerous bird species; High wildlife value				●	
<i>Scirpus cyperinus</i> Green Bullrush	Full Sun	FACW+	Yes	High wildlife value				●	
<i>Scirpus pungens</i> (formerly <i>S. americanus</i> ) Common Threesquare	Full Sun	FACW+	Yes	Food source for many species				●	
<i>Scirpus tabernaemontani</i> (formerly <i>S. validus</i> ) Soft Stem Bullrush	Full Sun	FACW+	Yes	Attractive flowers; Food source for many species				●	
<i>Schizachyrium scoparium</i> Little Bluestem	Full Sun	FACU-	No	Attractive fruit; Drought and flood tolerant; Tolerates poor soil conditions	●	●	●	●	
<i>Tridens flavus</i> Purpletop Tridens	Full Sun	FACU	No	Attractive fruit; Drought tolerant	●				
<i>Tripsacum dactyloides</i> Eastern Gammagrass	Full Sun	FACW	No	Attractive fruit; Flood tolerant; Evergreen			●	●	
<b>Ferns</b>									
<i>Adiantum pedatum</i> Northern Maidenhair Fern	Full Shade- Part Sun	FAC-	Moderate	Colonizer; Herbal uses	●				

Stormwater BMP Plant List									
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<i>Asplenium platyneuron</i> Ebony Spleenwort	Part Shade Full Shade	FACU	Moderate	Evergreen; Ground cover; Small fern	●	●	●	●	
<i>Asplenium rhizophyllum</i> Walking Fern	Part Shade Full Shade	NI	No	Ground cover; Small fern	●				
<i>Athyrium filix-femina</i> Southern Lady Fern	Part Shade Full Shade	FAC	Moderate	Flood tolerant	●	●	●	●	
<i>Dennstaedtia punctilobula</i> Hayscented Fern	Part Shade Full Shade	NI	No	Ground cover	●				
<i>Dryopteris intermedia</i> Intermediate Fern	Part Shade Full Shade	FACU	No	Ground cover	●				
<i>Dryopteris marginalis</i> Marginal Woodfern	Part Shade Full Shade	FACU-	Moderate	Evergreen; Ground cover	●	●	●	●	
<i>Matteuccia struthiopteris</i> Ostrich Fern	Part Shade Full Shade	FACW	Yes	Flood tolerant		●		●	
<i>Onoclea sensibilis</i> Sensitive Fern	Full Shade	FACW	Yes	Flood tolerant		●		●	
<i>Osmunda cinnamomea</i> Cinnamon Fern	Part Shade Full Shade	FACW	Yes	Flood tolerant		●	●	●	
<i>Osmunda claytoniana</i> Interrupted Fern	Full Sun- Full Shade	FAC	Moderate	Tolerates short term flooding; Low drought tolerance	●	●	●		
<i>Osmunda regalis</i> Royal Fern	Full Sun- Full Shade	OBL	Saturated	Tolerates short term flooding; Low drought tolerance	●	●	●	●	
<i>Polystichum acrostichoides</i> Christmas Fern	Full Shade	FACU-	Moderate	Flood tolerant; Evergreen; Ground cover	●	●	●	●	

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Plant	Light	Wetland Indicator <sup>1</sup>	Inundation Tolerance	Notes	Conservation & Landscaping	Biorentention	Regenerative Stormwater Conveyance	Stormwater Wetland*
<i>Thelypteris noveboracensis</i> New York Fern	Part Shade Full Shade	FAC	Saturated	Drought and flood tolerant; Spreading ground cover	●	●		
<i>Thelypteris palustris</i> Marsh Fern	Full Sun- Full Shade	NI	Saturated	Flood tolerant; Spreading ground cover	●			
<i>Woodwardia areolata</i> Netted Chain Fern	Part Shade Full Shade	FACW+	Yes	Flood tolerant; Spreading ground cover		●	●	●
<i>Woodwardia virginica</i> Virginia Chain Fern	Full Sun- Full Shade	u	Yes	Flood tolerant		●	●	●

**Wetland Indicator**

\* General Note: All of the plants with Wetland Indicators are found in wetland areas, however this chart marks those most suitable for high moisture conditions.

<sup>1</sup>Notes: SOURCE: <http://plants.usda.gov/wetland.html> for West Virginia (Region 1)

UPL = Occurs in wetlands in another region, but occurs almost always (estimated probability 99%) under natural conditions in non-wetlands

FAC = Facultative, equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

FACU = Facultative Upland, usually occurs in non-wetlands (estimated probability 67%-99%), but occasionally found on wetlands (estimated probability 1%-33%).

FACW = FACW Facultative Wetland, usually occurs in wetlands (estimated probability 67%-99%), but occasionally found in non-wetlands.

OBL = Obligate Wetland, occurs almost always (estimated probability 99%) under natural conditions in wetlands.

NI = No Indicator; Or change in plant taxonomy. Insufficient information was available to determine an indicator status.

A positive (+) or negative (-) sign is used for the facultative categories. The (+) sign indicates a frequency towards the wetter end of the category (more frequently found in wetlands) and the (-) sign indicates a frequency towards the drier end of the category (less frequently found in wetlands).



Stormwater BMP Plant List								
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<p><b>Inundation Tolerance</b> - Indicates the suitability of a plant based on the amount of moisture in the soil after a rain event:                      No – Suitable in a site where water does not remain after a rain event (i.e., full sun, steep slope, sandy soil, windy area); Drought tolerant plants are suitable.                      Moderate – Suitable in a site where soil remains damp or may remain saturated for a short time (i.e., full shade, bioretention areas; saturated soil for more than 24 hours);                      Yes – Suitable in a site where soil remains saturated for most of the growing season (i.e., stormwater wetlands, bogs, swamps, pond edges, etc.)                      Native to West Virginia                      ** - Non-Native to West Virginia. All plants are native to West Virginia unless indicated with a double asterisk.</p>								

# Appendix C - Planting List



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