Washington Grove Meadow Restoration

Goals:

- 1) Reduction of Mature Trees
- 2) Control of NNI species
- 3) Reintroduction of Native Biological Diversity
- 4) Enhance Sound and View Barrier of Highway
- 5) Restoration/Site Maintenance

Background

Around February of 2024, the Parks Department was contacted by representatives of Washington Grove's Meadow Committee to discuss the possibility of restoration of the meadow at Washington Grove Conservation Park. The Meadow Committee expressed their interest in restoring the open rural views cape in the meadow, increasing native biological diversity, and reducing the coverage of non-native species. In response to this request, staff has met with committee members and residents on several occasion to discuss the process of achieving the above stated goals. Below is a written summary of the stated goals and steps to achieve those goals and includes ecological considerations when relevant.

Reduction of Mature Trees

In discussion with the Meadow Committee, Parks stated that it tries to maintain meadow habitat with mature tree cover between 0-25%, and that reduction of trees should occur within the core of the meadow to create connected open habitat and restore historical viewsheds to the property, as identified in the Washington Grove Operation and Use Plan and Master Plan documents.

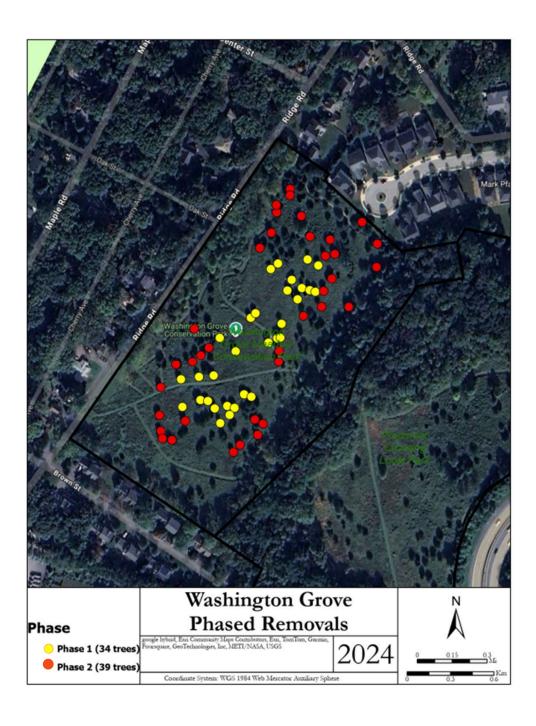
The first step was to ensure tree removal would be allowed under current Montgomery County Regulations. In coordination with Montgomery County Planning, a site review was conducted to determine if the site would qualify under Forest Conservation regulations. As there are currently less than one hundred trees per acre, it does not qualify under the Forest Conservation Act as a forest. It was also determined that Parks is exempt from county canopy regulations. Thus, proposed work can be conducted given current rules and regulations.

A two-phase removal plan (see below) was developed and shared with the Committee and residents. Phase One proposal is to remove thirty-four trees from the core of the habitat. Phase Two proposal is the removal of thirty-nine trees, including additional trees in the core of the habitat and creating a more natural edge of disperse trees to full canopy. After further discussions with Town residents and the Committee it was determined that removals should prioritize the removal of unhealthy trees (e.g., sick, split trunk).

Removal is to be funded by grant dollars and Parks would provide disposal of excess wood chips at its green waste facility. Phase one of the plan focused on the removal of trees or groups of trees within the center of the meadow. Some groupings of trees were identified to be kept, allowing for small animal cover and nesting and perching areas for birds. The goal of this phase was the creation of a more open core which could then be floristically enhanced by the reintroduction of native wildflowers and grasses supplied by the Parks nursery Pope Farm. Upon the completion of Phase One, the community could revisit the project and determine if it would like to proceed with Phase Two. Phase Two can be described

as edge maintenance. The goal of Phase Two would be to selectively remove mature trees to create a more natural boundary, with dispersed trees grading into more mature canopy around the edges.

As stated above, removal of the trees was proposed to achieve a more open meadow for a more historic viewshed and to enhance the meadow with native grasses and wildflowers. However, it is worth noting that as trees continue to grow vertically, the shade they cast over the meadow will continue to increase further limiting the availability of sunlight and subsequently the species that inhabit the area, especially open meadow plant species.



Control of NNI Species

Residents and local volunteers have already begun to volunteer through the Parks WW program to control non-native invasive species at Washington Grove Conservation Park. This effort has included eighteen individual volunteers, contributing 83 hours of service to-date in 2024. Species controlled have included: mile-a-minute, wineberry, bittersweet, bush honeysuckle, and English ivy, among others.

Long-term the goal is to continue with non-native invasive species management through both volunteer efforts and annual work by Park Natural Resources Staff. It is anticipated that two volunteer events will be held annually if there is interest and more could be facilitated if necessary. Individual certified Weed Warrior volunteers may work whenever they choose.

Park Natural Resources Staff will also visit the site annually to address issues that cannot be addressed through volunteer action, e.g., any efforts that require herbicide treatments and to work with volunteers to identify priority species for control.

Reintroduction of Native Biological Diversity

After the removal of trees and continued non-native control efforts the next step in the process would be to reintroduce or enhance native biological diversity. Plant materials can be supplied free of charge from the Parks' nursery – Pope Farm Nursery. Below is a list to give an idea of the species available. These species are predominantly sourced from Montgomery County, Maryland.

Latin Name	Common Name	Provenance
Agastache nepetoides	yellow giant hyssop	Little Bennett (Montgomery)
Allium cernuum	nodding onion	North Creek Nursery (PA)
Allium tricoccum (limited)	ramps	Silver Spring (Montgomery)
Andropogon glomeratus	bushy bluestem	Beltsville (Prince George's)
Andropogon ternarius 'Black Mountain'	Black Mountain bluestem	Black Mountain, NC
Andropogon virginicus	broomsedge	Little Bennett (Montgomery)
Anemone virginiana	thimbleweed	Little Bennett (Montgomery)
Antennaria howellii	Howell's pussytoes	Potomac (Montgomery)
Antennaria neglecta	field pussytoes	Anne Arundel
Antennaria parlinii	Parlin's pussytoes	Anne Arundel
Antennaria plantaginifolia	plantainleaf pussytoes	Northwest Branch (Montgomery)
Aquilegia canadensis	wild columbine	Little Bennett (Montgomery)
Aralia racemosa	American spikenard	Rosaryville (Prince George's)
Arisaema triphyllum	Jack-in-the-pulpit	Little Bennett (Montgomery)
Aronia arbutifolia		
Asarum canadense	wild ginger	Cabin John (Montgomery)
Asclepias incarnata sbsp pulchra	swamp milkweed	Beach Drive (Montgomery)

Asclepias purpurascens (limited)	purple milkweed	Potomac (Montgomery)
Asclepias syriaca	common milkweed	Silver Spring (Montgomery)
Asclepias tuberosa	butterflyweed	Maydale (Montgomery)
Baptisia australis	blue wild indigo	Potomac (Montgomery)
Baptisia tinctoria	yellow wild indigo	Potomac (Montgomery)
Boehmeria cylindrica	false nettle	Silver Spring (Montgomery)
Cardamine concantenata (limited)	cutleaf toothwort	Silver Spring (Montgomery)
Carex albicans	white-tinged sedge	Bethesda (Montgomery)
Carex cherokeensis	cherokee sedge	North Creek Nursery (PA)
Carex crinita	fringed sedge	Gaithersburg (Montgomery)
Carex grayi	Gray's sedge	Potomac (Montgomery)
Carex laxiculmis	spreading sedge	Silver Spring (Montgomery)
Carex lurida	sallow sedge	Gaithersburg (Montgomery)
Carex platyphylla	silver sedge	Potomac (Montgomery)
Carex radiata	eastern star sedge	Bethesda (Montgomery)
Carex rosea	rosy sedge	Beach Drive (Montgomery)
Carex tribuloides	blunt broom sedge	
Carex vulpinoidea	fox sedge	Little Bennett (Montgomery)
Cerastium velutinum	field chickweed	Potomac (Montgomery)
Chasmanthium latifolium	wood oats	Carderock (Montgomery)
Chasmanthium laxum	slender wood oats	Beltsville (Prince George's)
Chelone glabra	white turtlehead	McKee-Beshers (Montgomery)
Chrysopsis mariana	Maryland goldenaster	Beltsville (Prince George's)
Cinna arundinacea	sweet woodreed	Northwest Branch (Montgomery)
Clematis virginiana	virgin's bower	Little Bennett (Montgomery)
Clinopodium vulgare	wild basil	Maydale (Montgomery)
Coleataenia anceps	beaked panicgrass	Northwest Branch (Montgomery)
Conoclinium coelestinum	blue mistflower	Northwest Branch (Montgomery)
Coreopsis verticillata	threadleaf tickseed	Potomac (Montgomery)
Cunila origanoides	common dittany	River Road Shale Barren (Montgomery)
Danthonia spicata	poverty oatgrass	River Road Shale Barren (Montgomery)
Delphinium exaltatum	tall larkspur	Prairie Moon seed (state rare)
Dicentra canadensis	squirrel corn	Silver Spring (Montgomery)
Dichanthelium clandestinum	deertongue grass	Potomac (Montgomery)
Dichanthelium polyanthes	roundseed deertongue	Rosaryville (Prince George's)
Dichanthelium scoparium	velvet deertongue	Potomac (Montgomery)
Dioscorea villosa	wild yam	Wheaton Regional (Montgomery)
Echinacea 'Fragrant Angel'	white coneflower	purchased plant, cultivar of native
Echinacea purpurea	purple coneflower	purchased plant, native to mid-atlantic
Echinacea 'White Swan'	white coneflower	New Moon Nursery, NJ
Elephantopus carolinianus	elephant's foot	Beach Drive (Montgomery)

Elymus hystrix	bottlebrush grass	Northwest Branch (Montgomery)
Elymus riparius	riverbank wild rye	Northwest Branch (Montgomery)
Elymus virginicus	Virginia wild rye	Beach Drive (Montgomery)
Eragrostis spectabilis	purple love grass	Potomac (Montgomery)
Eupatorium hyssopifolium	hyssopleaf thoroughwort	Potomac (Montgomery)
Eupatorium perfoliatum	boneset	Little Bennett (Montgomery)
Eupatorium rotundifolium	roundleaf thoroughwort	Buck Lodge (Prince George's)
Euphorbia corollata	euphorbia	Little Bennett (Montgomery)
Eurybia divaricata	white wood aster	Northwest Branch (Montgomery)
Euthamia caroliniana	slender goldentop	Lewes, DE
Euthamia graminifolia	grassleaf goldenrod	Pope farm surrounds (Montgomery)
Eutrochium dubium	coastal joe pye weed	Beltsville (Prince George's)
Eutrochium fistulosum	hollow joe pye weed	Little Bennett (Montgomery)
Fragaria virginiana	wild strawberry	Montgomery County
Geranium maculatum	wild geranium	Cabin John (Montgomery)
Helenium autumnale	yellow sneezeweed	Susquehanna River (Cecil)
Helenium flexuosum	purple sneezeweed	Anne Arundel
Helianthus divaricatus	woodland sunflower	Potomac (Montgomery)
Helianthus giganteus	giant sunflower	Fairfax, VA
Helianthus occidentalis	western sunflower	Potomac (Montgomery)
Heliopsis helianthoides	smooth oxeye	Little Bennett (Montgomery)
Heuchera americana	alumroot	Lake Frank (Montgomery)
Heuchera villosa	hairy alumroot	purchased plant, native to mid-atlantic
Hibiscus coccineus	scarlet mallow	Brookside gardens, southeast native
Hibiscus laevis	halberdleaf mallow	Susquehanna River (Cecil)
Hibiscus moscheutos	rose mallow	Potomac (Montgomery)
Hydrophyllum canadense	canada waterleaf	Potomac (Montgomery)
Ionactis linarifolia	stiff aster	Potomac (Montgomery)
Iris versicolor	Blockhouse point	Potomac (Montgomery)
Juncus effusus	common rush	Pope farm surrounds (Montgomery)
Juncus tenuis	path rush	McKenney Hills (Montgomery)
Lespedeza violaceae	slender lespedeza	Little Bennett (Montgomery)
Liatris pilosa	shaggy blazing star	Cheverly (Prince George's)
Liatris spicata	gayfeather	Sterling, VA (Loudoun)
Liatris squarosa	scaly blazing star	New Moon Nursery, NJ
Lillium superbum	Turk's cap lily	Little Bennett (Montgomery)

Lobelia cardinalis	cardinal flower	Meadowside, Little Bennett (Montgomery)
Lobelia siphilitica	great blue lobelia	Potomac (Montgomery)
Ludwigia alternifolia	seedbox	Beltsville (Prince George's)
Luzula echinata	hedgehog woodrush	McKenney Hills (Montgomery)
Lysimachia lanceolata var. purpurea	lanceleaf loostrife	New Moon Nursery, NJ
Maianthemum racemosum	false Solomon's Seal	Silver Spring (Montgomery)
Melica mutica	two flower melic grass	Potomac (Montgomery)
Mimulus alatus	winged monkeyflower	Rosaryville (Prince George's)
Mimulus ringens	monkeyflower	Maydale (Montgomery)
Monarda clinopodia	white bergamot	Potomac (Montgomery)
Monarda didyma	beebalm	Frostburg (Allegheny)
Monarda fistulosa	wild bergamot	Rachel Carson (Montgomery)
Monarda punctata	spotted mint	Sellman Road (Prince George's)
Oenothera fruticosa	narrowleaf sundrops	Little Bennett (Montgomery)
Packera anonyma	Small's ragwort	
Packera aurea	golden ragwort	Northwest Branch (Montgomery)
Packera obovata	roundleaf ragwort	River Road Shale Barren (Montgomery)
Parthenocissus quinquefolia	Virginia creeper	Rosaryville (Prince George's)
Penstemon calycosus	long sepal beardtongue	Donated seed stock, east coast native
Penstemon digitalis	beardtongue	Little Bennett (Montgomery)
Penstemon hirsutus	hairy beardtongue	River Road Shale Barren (Montgomery)
Phlox divaricata	wild phlox	Potomac (Montgomery)
Phlox paniculata	tall phlox	Meadowbrook (Montgomery)
Phlox paniculata 'Jeana'	garden phlox 'Jeane'	New Moon Nursery, NJ
Phlox stolonifera	creeping phlox	Donated seed stock, east coast native
Phlox subulata	moss phlox	Allegheny county
Podophyllum peltatum	may apple	Silver Spring (Montgomery)
Pycnanthemum incanum	hoary mountain mint	Dan's Mountain (Allegheny)
Pycnanthemum muticum	mountain mint	Little Bennett (Montgomery)
Pycnanthemum tenuifolium	narrowleaf mtn. mint	Little Bennett (Montgomery)
Pycnanthemum torreyi	Torrey's mint	Huntingdon PA
Pycnanthemum virginianum	Virginia mountain mint	Little Bennett (Montgomery)
Rudbeckia fulgida	orange coneflower	Potomac (Montgomery)
Rudbeckia laciniata	cutleaf coneflower	Little Bennett (Montgomery)
Rudbeckia triloba	brown-eyed susan	Little Bennett (Montgomery)
Ruellia caroliniensis	wild petunia	Pope farm surrounds (Montgomery)

Ruellia humilis	fringeleaf wild petunia	North Creek nursery (PA)
Ruellia strepens	limestone wild petunia	Potomac (Montgomery)
Salvia lyrata	lyreleaf sage	
Salvia iyi ata	Tyrelear sage	Northwest Branch (Montgomery)
Sanguinaria canadensis	bloodroot	Bethesda (Montgomery)
Schizachyrium scoparium	little bluestem grass	Little Bennett (Montgomery)
Scirpus cyperinus	woolgrass	Beach Drive (Montgomery)
Scirpus georgianus	Georgia bulrush	Pope farm surrounds (Montgomery)
Scutellaria incana	hoary skullcap	New Moon Nursery, NJ
Scutellaria integrifolia	skullcap	
Scatellaria integritoria	Skullcap	Little Bennett (Montgomery)
Sedum ternatum	wild stonecrop	Potomac (Montgomery)
Senna hebecarpa	wild senna	Potomac (Montgomery)
Senna marilandica	Maryland senna	Little Bennett (Montgomery)
Sericocarpus linifolius	narrowleaf whitetop aster	Potomac (Montgomery)
Sisyrinchium angustifolium	blue-eyed grass	
Sisyrincinum angustiionum	blue-eyeu grass	Lake Frank (Montgomery)
Sium suave	water parsnip	Little Bennett (Montgomery)
Solidago bicolor	silverrod	Potomac (Montgomery)
Solidago caesia	wreath goldenrod	Northwest Branch (Montgomery)
Solidago erecta	slender goldenrod	Riverdale (Prince George's)
Solidago flexicaulis	zigzag goldenrod	Potomac (Montgomery)
Solidago juncea	early goldenrod	Little Bennett (Montgomery)
Solidago nemoralis	grey goldenrod	
Solidaço Hemoralis	grey goldermod	Little Bennett (Montgomery)
Solidago odora	sweet goldenrod	Furnacetown (Worchester)
Solidago rugosa	wrinkleleaf goldenrod	Pope farm surrounds (Montgomery)
Sorghastrum nutans	indiangrass	Potomac (Montgomery)
Spigelia marilandica	indian pink	Brookside gardens, southeast native
Symphyotrichum cordifolium	blue wood aster	Potomac (Montgomery)
Symphyotrichum laeve	smooth aster	
Symphyothenum laeve	Silloutii astei	Potomac (Montgomery)
Symphyotrichum lateriflorum	calico aster	Silver Spring (Montgomery)
Symphyotrichum novae-angliae	New England aster	Maydale (Montgomery)
Symphyotrichum oblongifolium	aromatic aster	Potomac (Montgomery)
Symphyotrichum pilosum	frost aster	Little Bennett (Montgomery)
Symphyotrichum puniceum	purplestem aster	Pope farm surrounds (Montgomery)
Symphyotrichum undulatum	wavyleaf aster	Little Bennett (Montgomery)
Thalictrum pubescens	tall meadow rue	Little Bennett (Montgomery)
Thalictrum revolutum		
Thalictrum thalictroides	rue anemone	Meadowside, (Montgomery)

Tiarella cordifolia	foamflower	North Creek nursery (PA)
Tradescantia virginiana	Virginia spiderwort	Potomac (Montgomery)
Tridens flavus	purpletop	Little Bennett (Montgomery)
Trillium cuneatum (limited)	Sweet Betsy	Bethesda (Montgomery)
Uvularia perfoliata	perfoliate bellwort	
Valeriana pauciflora	large-flowered valerian	Potomac (Montgomery)
Verbena hastata	blue vervain	Anne Arundel
Verbesina alternifolia	wingstem	Little Bennett (Montgomery)
Vernonia noveboracensis	ironweed	Beach Drive (Montgomery)
Veronicastrum virginicum	Culver's root	Potomac (Montgomery)
Viola primulifolia	primroseleaf violet	
Viola pubescens	downy yellow violet	Wheaton Regional (Montgomery)
Viola striata	striped cream violet	Silver Spring (Montgomery)
Zizia aurea	golden alexanders	Potomac (Montgomery)
FERNS: (SUBJECT TO AVAILABILITY) Limit 2 ferns		
Athyrium filix-femina	lady fern	Casa Flora or rescue
Dryoperteris marginalis*	marginal fern	Casa Flora or rescue
Onoclea sensibilis*	sensitive fern	Casa Flora or rescue
Osmunda cinnamomea*	cinnamon fern	Casa Flora or rescue
Osmunda regalis*	regal fern	Casa Flora or rescue
Polystichum acrostichoides*	Christmas fern	Casa Flora or rescue

Parks will work with the Town of Washington Grove to determine the type of pollinators/ invertebrates they would like to attract and select species for plantings based on those criteria. While it cannot be guaranteed that we can provide species to meet all requests, any significant increase in native biological diversity is likely to be paralleled by an increase in pollinator diversity. Plantings can take place as a volunteer event. In general, Pope Farm nursery offers plant pick-ups in the spring and another in the fall.

Enhance Sound and View Barrier of Highway

Parks will also work with the Town of Washington Grove to determine woody species that can be planted within the tree lines to obstruct the view and possibly reduce the sound of highway traffic. This effort will require the planting of shade tolerant understory species such as winterberry. A list of tree and shrub species available from Pope Farm is provided below.

shrub	Coronus sericea	Red Osier
shrub	Aronia arbutifolia (Photinia pyrifera)	Red Chokeberry
shrub	Abelia	Rose Creek Abelia

shrub	Abelia x Rose Creek	Rose Creek Abelia
shrub	Abelia x Sunshine Daydream	Sunshine Daydream Abelia
shrub	Aesculus glabra	Ohio Buckeye
shrub	Aesculus parviflora	Bottlebrush Buckeye
shrub	Aesculus parviflora	Bottlebrush Buckeye
shrub	Aesculus pavia	Red Buckeye
shrub	Aesculus pavia	Red Buckeye
shrub	Alnus serrulata	Smooth Alder
shrub	Alnus serrulata	Smooth Alder
shrub	Amelanchier canadensis	Serviceberry
shrub	Aronia melanocarpa	Aronia 'Lowscape Snowfire'
shrub	Boxwood 'Bab Gem'	Baby Gem' Boxwood
shrub	Buddleia 'Miss Ruby'	Miss Ruby Butterfly Bush
shrub	Calacarpa americana	Beautyberry
shrub	Callicarpa 'Pearl Glam'	Pearl Glam Beautyberry
shrub	Cephalanthus occidentalis	Buttonbush
shrub	Cephalanthus occidentalis	Buttonbush
shrub	Cephalanthus occidentalis 'Sugar Shack'	Sugar Shack Buttonbush
shrub	Cephalotaxus harringtonia 'Dukes Garden'	Dukes Garden Jap. Plum Yew
shrub	Cephalotaxus harringtonia 'Fastigiata'	Fastigiate Plum Yew
shrub	Cephalotaxus harringtonia 'Fastigiata'	Fastigiate Plum Yew
shrub	Chaemaecyparis 'Haywire'	Haywire False Cypress
shrub	Chamaecyparis pisifera 'Gold Mop'	Gold Mop False Cypress
shrub	Chamaecyparis lawsoniana	False Cypress 'Haywire'
shrub	Chamaecyparis pisifera	False Cypress 'Cedar Rapids'
shrub	Chionanthus virginicus	Fringetree
shrub	Clethra alnifolia 'Ruby Spice'	Summer Sweet 'Ruby Spice'
shrub	Clethra alnifolia 'Sugartina Crystalina'	Summer Sweet 'Sugartina Crystalina'
shrub	Cornus alternifolia	Pagoda Dogwood
shrub	Cornus amomum	Silky Dogwood
shrub	Cornus amomum	Silky Dogwood
shrub	Cornus sericea	Red Osier Dogwood

shrub	Cornus stolonifera Artic Fire	Artic Fire Red Twig Dogwood
shrub	Cornus stolonifera Artic Fire	Artic Fire Red Twig Dogwood
shrub	Corylus americana	American Filbert
shrub	Cotinus coggygria 'Winecraft Black'	Winecraft Black Smokebush
shrub	Diervilla 'Kodiak Black'	Kodiak Black Diervlla
shrub	Diervilla 'Kodiak Fresh'	Kodiac Fresh Diervlla
shrub	Diervilla 'Kodiak Red'	Kodiak Red Diervilla
shrub	Distillium 'Blue Cascade'	Blue Cascade' Distillium
shrub	Distillium 'Coppertone'	Coppertone' Distillium
shrub	Distillium 'Linebacker'	Linebacker' Distillium
shrub	Distylium 'Emerald Heights'	Emerald Heights Distylium
shrub	Duetzia 'Yuki Snowflake'	Yuki Snowflake Duetzia
shrub	Duetzia 'Yuki Snowflake'	Yuki Snowflake Duetzia
shrub	Euonymus americanus	Strawberry Bush
shrub	Euyonmus americana(cuttings)	Strawberry Bush
shrub	Forsthia Gold Tide	Forsythia
shrub	Fothergilla gardenii	Dwarf Fothergilla
shrub	Fothergilla gardenii	Dwarf Fothergilla
shrub	Fothergilla x intermedia 'Legends of the Fall'	Legends of the Fall Bottlebrush
shrub	Hibiscus syriacus 'Azurri Blue Satin'	Azurri Blue Satin Rose of Sharon
shrub	Hydrangea quercifolia 'Gatsby'	Hydrangea
shrub	Hydrangea quercifolia 'Gatsby'	Hydrangea
shrub	Hydrangea quercifolia 'Snow Queen'	Snow Queen Oakleaf Hydrangea
shrub	Hydrangea paniculata	Hydrange 'Limelight Prime'
shrub	Hypericum 'Blues Festival'	St John Wort
shrub	Hypericum prolificum	Shrubby St John's Wort
shrub	Hypericum 'Sunny Boulevard'	St John Wort
shrub	Ilex glabra 'Compacta'	Compact Inkberry
shrub	Ilex 'Nigra'	Ink Berry 'Nigra'
shrub	Ilex verticillata	Winterberry
shrub	Ilex verticillata	Winterberry
shrub	llex verticillata ' Mr. Poppins'	Mr. Poppins Winterbrry
shrub	Ilex verticillata 'Berry Gold'	Berry Gold Winterberry

shrub	Ilex verticillata 'Berry Poppins'	Berry Poppins Winterberry
shrub	Ilex verticillata 'Winter Red'	Winter Red Winterberry
shrub	Ilex x 'Castle Spire'	Castle Spire Blue Holly
shrub	Ilex x 'Castle Wall'	Castle Wall Blue Holly
shrub	Itea virginica	Itea 'Henerys Garnet'
shrub	Juniperus chinensis 'Montana Moss'	Montana Moss Juniper
shrub	Juniperus chinensis 'Montana Moss'	Montana Moss Juniper
shrub	Juniperus communis 'Tortuga'	Tortuga Juniper
shrub	Lagerstroemia	Crape Myrtle
shrub	Lagerstroemia indica 'Rikki Tikki Rouge'	Dwarf Crape Myrtle Rikki Tikki Rouge
shrub	Leptodermis oblonga	Leptodermis
shrub	Leucothoe axillaris 'Rejoyce"	Coast Leucothoe 'Rejoyce'
shrub	Lindera benzoin	Spicebush
shrub	Magnolia virginiana	Sweet Bay Magnolia
shrub	Myrica pennsylvanica	Northern Bayberry
shrub	Myrica pennsylvanica	Northern Bayberry
shrub	Myrica pennsylvanica	Northern Bayberry
shrub	Myrica pensylvanica	Northern Bayberry
shrub	Ninebark	Ninebark 'Ginger Wine'
shrub	Osmanthus x 'Fortunei'	Fortune's Osmanthus
shrub	Osmanthus x 'Goshiki'	Osmanthus
shrub	Potentilla Happy Face White	Happy Face Bush Cinquefoil
shrub	Rhamnus 'Fine Line'?	Buckthorn
shrub	Rhus aromatica 'Gro Low'	Gro Low Sumac
shrub	Rhus aromatica 'Gro Low'	Gro Low Sumac
shrub	Rhus 'Tiger Eyes'	Tiger Eyes Sumac
shrub	Sambucus canadensis	Elderberry
shrub	Sambucus canadensis	Elderberry

shrub	Sambucus nigra 'Black Beauty'	Black Beauty Elderberry
shrub	Sambucus racemosa 'Lemony Lace'	Lemony Lace Sambucus
shrub	Sarcococca hookeriana	Sweetbox 'Sweet & Low'
shrub	Spiraea alba	Meadowsweet Spirea
shrub	Spiraea 'Double Play Blue Kazoo'	Blue Kazoo Spirea
shrub	Spiraea 'Double Play Doozie'	Double Play Doozie Spirea
shrub	Spiraea 'Double Play Red'	Double Play Red Spirea
shrub	Spiraea tomentosa	Steeplebush
shrub	Spirea latifolia	White Meadowsweet
shrub	Spirea tomentosa	Spirea
shrub	Spirea tomentose	meadowsweet
shrub	Thuja occidentalis	Arborvitae
shrub	Thuja occidentalis 'North Pole'	North Pole Arborvitae
shrub	Thuja occidentalis 'North Pole'	North Pole Arborvitae
shrub	Thuja occidentalis 'Spring Grove'	Spring Grove Arborvitae
shrub	Thuja occidentalis 'Woodward Globe'	Woodward Globe Arborvitae
shrub	Vaccinium corymbosum	Highbush Blueberry
shrub	Viburnum 'Sweet Talker'	Fragrant Viburnum
shrub	Viburnum acerfolium	Maple Leaf Viburnum
shrub	Viburnum dentatum	Arrowood
shrub	Viburnum dentatum	Arrowood
shrub	Viburnum dentatum	Arrowood
shrub	Viburnum lentago	Nannyberry
shrub	Viburnum nudum 'Bulk' Brandywine'	BrandywineSouthern witherod Viburnum
shrub	Viburnum nudum 'Bulk' Brandywine'	BrandywineSouthern witherod Viburnum
shrub	Viburnum odoratissimum	Viburnum 'Coppertop'
shrub	Viburnum prunifolium	Blackhaw Viburnum
shrub	Viburnum prunifolium	Blackhaw Viburnum
shrub	Viburnum prunifolium	Blackhaw Viburnum
shrub	Viburnum prunifolium	Blackhaw Viburnum
shrub	Viburnum trilobum 'Red Wing'	Redwing American Cranberry Bush
shrub	Viburnum x burkwoodii 'Conoy'	Conoy Viburnum
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shrub	Viburnum x burkwoodii 'Conoy'	Conoy Viburnum
shrub	Vitex 'Summer blues'	
shrub	Weigela florida 'Czezmark Two Pink	Czezmark Two Pink Weigela
shrub	Weigela Sonic Bloom Red	Sonic Bloom Red Weigela
shrub	Weigela 'Wine & Spirits'	Weigela 'Wine & Spirits'
shrub	Xanthorhiza simpliccissima	Yellowroot
tree	Abies nordmanniana	Nordman Fir
tree	Acer rubrum	Red Maple
tree	Acer rubrum	Red Maple
tree	Acer rubrum	Red Maple
tree	Asimina triloba	Paw Paw
tree	Asimina triloba	PawPaw
tree	Asimina triloba	PawPaw
tree	Asimina triloba	PawPaw
tree	Asimina triloba 'Alleghany'	Alleghany PawPaw
tree	Asimina triloba 'Atwood'	Atwood Paw Paw
tree	Asimina triloba 'KSU Atwood"	KSU Atwood Paw Paw
tree	Asimina triloba 'KSU Chappell'	PawPaw
tree	Asimina triloba 'Mango Graft'	Mango Paw Paw
tree	Asimina triloba 'Mango Graft'	Mango Grafted Paw Paw
tree	Asimina triloba 'NS1'	NS 1 PawPaw
tree	Asimina triloba 'Pennsylvania Gold'	Pennsylvania Gold Grafted Paw Paw
tree	Asimina triloba 'Potomac'	Potomac Grafted Paw Paw
tree	Asimina triloba 'Prolific'	Prolific PawPAw
tree	Asimina triloba 'Rappahannock'	Rappahannock PawPaw
tree	Asimina triloba 'Sunflower'	Sunflower Paw Paw
tree	Asimina triloba 'Sunflower'	Sunflower Paw Paw
tree	Asimina triloba 'Tallahachee'	Tallahachee PawPAw
tree	Asimina triloba 'Tallahae'	PawPaw
tree	Asimina triloba 'Wabash'	Wabash Gafted Paw Paw
tree	Asimina triloba 'Wells'	Wells PawPAw
tree	Betula nigra	River Birch- single

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tree	Betula nigra	River Birch- single
tree	Betula nigra	River Birch- single
tree	Betula nigra	River Birch- single
tree	Carpinus caroliniana	American Hornbeam
tree	Carpinus caroliniana	American Hornbeam
tree	Carpinus caroliniana	American Hornbeam
tree	Carpinus caroliniana	American Hornbeam
tree	Carpinus caroliniana	American Hornbeam
tree	Carya glabra	Pignut Hickory
tree	Carya ovata	Shagbark Hickory
tree	Carya ovata	Shagbark Hickory
tree	Celtis occidentalis	Hackberry
tree	Celtis occidentalis	Hackberry
tree	Celtis occidentalis (seed grown)	Hackberry
tree	Cercis canadensis	Redbud
tree	Cornus flordia	Dogwood
tree	Cornus florida	Flowering Dogwood
tree	Cornus florida	Flowering Dogwood
tree	Cornus florida	Flowering Dogwood
tree	Cornus florida	Flowering Dogwood
tree	Diospyros virginiana	Persimmon
tree	Diospyros virginiana	Persimmon
tree	Fagus grandifolia	American Beech
tree	Fagus grandifolia	American Beech
tree	Fagus grandifolia	American Beech
tree	Fagus grandifolia	American Beech
tree	Hamamelis virginiana	Witchhazel
tree	Ilex opaca	American Holly
tree	Ilex opaca	American Holly
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tree	Ilex opaca	American Holly
tree	Juniper viginiana	Eastern Red Cedar
tree	lagerstoemia	Crape Myrtle 'Scarlett'
tree	Liquidambar styraciflua	Sweet Gum
tree	Liquidambar styraciflua	Sweet Gum
tree	Liquidambar styraciflua	Sweet Gum
tree	Liquidambar styraciflua	Sweet Gum
tree	Liquidambar styraciflua	Sweet Gum
tree	Liriodendron tulipifera	Tulip Poplar
tree	Liriodendron tulipifera	Tulip Poplar
tree	Liriodendron tulipifera	Tulip Poplar
tree	Liriodendron tulipifera	Tulip Poplar
tree	Magnolia virginiana	Sweet Bay Magnolia
tree	Magnolia virginiana	Sweet Bay Magnolia
tree	Nyssa sylvatica	Black Gum
tree	Nyssa sylvatica	Black Gum
tree	Nyssa sylvatica	Black Gum
tree	Nyssa sylvatica	Black Gum
tree	Nyssa sylvatica	Black Gum
tree	Oxydendrum arboreum	Sourwood
tree	Pinus virginiana	Virginia Pine
tree	Pinus virginiana	Virginia Pine
tree	Platanus occidentalis	Sycamore
tree	Prunus serotina	Black Cherry
tree	Quercus alba	White Oak
tree	Quercus alba	White Oak
tree	Quercus alba	White Oak
tree	Quercus bicolor	Swamp White Oak
tree	Quercus bicolor	Swamp White Oak
tree	Quercus bicolor	Swamp White Oak

Tree	Quercus bicolor	Swamp White Oak
tree	Quercus coccinea	Scarlet Oak
tree	Quercus coccinea	Scarlet Oak
tree	Quercus coccinea	Scarlet Oak
tree	Quercus coccinea	Scarlett Oak
tree	Quercus falcata	Southern Red Oak
tree	Quercus imbricaria	Shingle Oak
tree	Quercus macrocarpa	Bur Oak
tree	Quercus muehlenbergia	Chinkapin Oak
tree	Quercus pagoda	Swamp White Oak
tree	Quercus palustris	Pin Oak
tree	Quercus palustris	Pin Oak
tree	Quercus palustris	Pin Oak
tree	Quercus palustris	Pin Oak
tree	Quercus phellos	Willow Oak
tree	Quercus phellos	Willow Oak
tree	Quercus phellos	Willow Oak
tree	Quercus prinus	Chestnut Oak
tree	Quercus prinus	Chestnut Oak
tree	Quercus rubra	Northern Red Oak
tree	Quercus rubra	Northern Red Oak
tree	Quercus rubra	Northern Red Oak
tree	Quercus rubra	Northern Red Oak
tree	Quercus rubra	Northern Red Oak
tree	Quercus shumardii	Shumard Oak
tree	Quercus velutina	Black Oak
tree	Quercus velutina	Black Oak
tree	Sassafras albidum	Sassafras
tree	Sassafras albidum	Sassafras
tree	Sassafras albidum	Sassafras
tree	Ulmus rubra	Slippery Elm
tree	Juniperus virginiana	Eastern Red Cedar
treee	Cercis canadensis (seed)	Redbud

Restoration/ Site Maintenance

The most important aspect of this project is the maintenance of the meadow to maintain restoration efforts. As mentioned above this would be achieved through two mechanisms: the Weed Warriors and Park staff. Park staff will work in coordination with volunteers to identify strategic targets and coordinate work with staff to ensure noticeable progress. As invasive species are controlled and replaced with native wildflowers and grasses, the system will become more resilient to re-invasion. While upfront efforts are significant, over time, effort should reduce as non-native invasive species are removed and native species begin to dominate.