

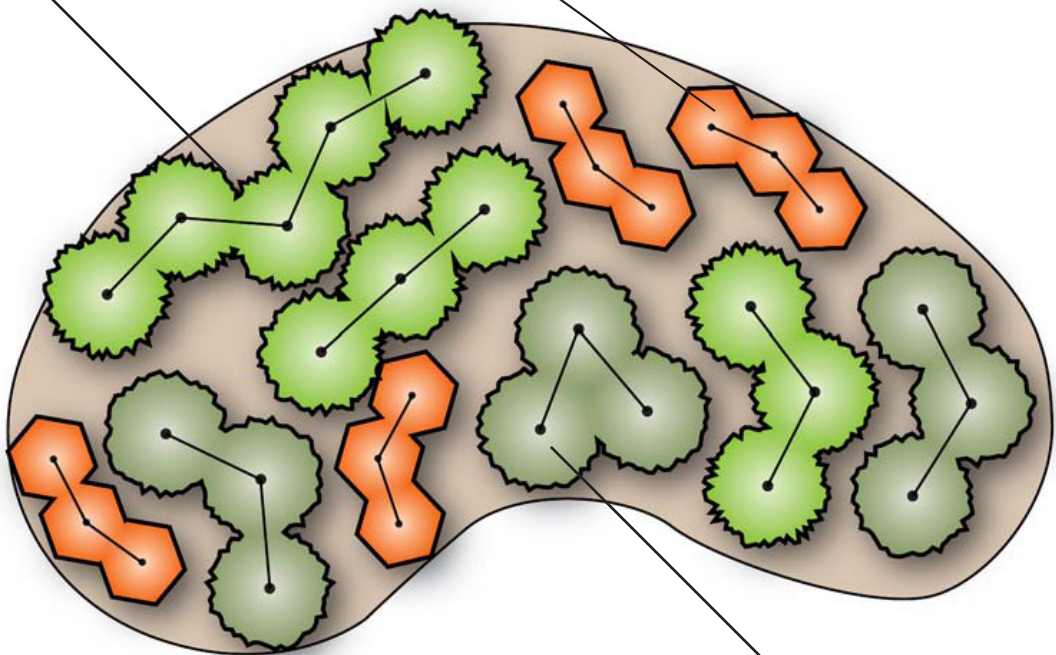
Meadow – 90 square feet

Shady, wet soils

(contained in 14.5 x 9 foot area)

Grass/Sedge/Rush x11
(in 3 clusters)

Herbaceous Perennial x12
(in 4 clusters)



Grass/Sedge/Rush x9
(in 3 clusters)

Average Spacing between Plants

Refer to plant nursery tags and adjust as needed

Shrubs = 30"	Grasses = 18"	Perennials = 9-12"
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2 cubic feet of mulch covers ~12 square feet of the garden

Scale: 1 inch = 3 feet



Consider adding a rain barrel to your Conservation Landscape. For more info, visit the [Rainwater Harvesting chapter](#).

Number of plants

Grass/sedge/rush type 1: 11 plants

Grass/sedge/rush type 2: 9 plants

Herbaceous perennial: 12 plants

Recommended plant options for Anne Arundel County, MD and surrounding areas

These plants are native, and typically successful in the climate zone for Anne Arundel County. For more information about these plants, and for additional plant options, the [Ladybird Johnson native plant database](#) is recommended.

(Note: for shady conditions, ferns can function in place of a grass/sedge/rush or an herbaceous perennial.)

Plant Type	Plant Latin Name	Plant Common Name	Planting Condition	Maintenance Type	Spacing
Fern	<i>Dryopteris intermedia</i>	Evergreen Wooded Fern	Shady/Wet	Low	18" apart
Fern	<i>Matteucia pensylvanica</i>	Ostrich Fern	Shady/Wet	Low	18" apart
Fern	<i>Onoclea sensibilis</i>	Sensitive Fern	Shady/Wet	Low	18" apart
Fern	<i>Osmunda cinnamomea</i>	Cinnamon Fern	Shady/Wet	Low	18" apart
Fern	<i>Polystichum aristichoides</i>	Christmas Fern	Shady/Wet	Low	18" apart
Grass/Sedge/Rush	<i>Acorus calamus</i>	Sweet Flag	Shady/Wet	Minimal	18" apart
Grass/Sedge/Rush	<i>Acorus gramineus</i> 'Minimus Aureus'	Dwarf Golden Variegated Sweet Flag	Shady/Wet	Minimal	18" apart
Grass/Sedge/Rush	<i>Carex crinita</i>	Fringed Sedge	Shady/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Chelone glabra</i>	Turtlehead	Shady/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Chrysogonum virginianum</i>	Green and Gold	Shady/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Iris versicolor</i>	Blue Flag Iris	Shady/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Lobelia cardinalis</i>	Cardinal Flower	Shady/Wet	Minimal	18" apart
Shrub	<i>Clethra alnifolia</i>	Sweet Pepper Bush	Shady/Wet	Minimal	48" apart
Shrub	<i>Cornus sericea</i>	Red Twig Dogwood	Shady/Wet	Minimal	48" apart
Shrub	<i>Lindera benzoin</i>	Spicebush	Shady/Wet	Minimal	48" apart
Tree	<i>Acer rubrum</i>	Red Maple	Shady/Wet	Minimal	60" + apart
Tree	<i>Asimina triloba</i>	Paw Paw	Shady/Wet	Minimal	60" + apart
Tree	<i>Magnolia virginiana</i>	Sweet Bay Magnolia	Shady/Wet	Minimal	60" + apart
Tree	<i>Salix sericea</i>	Silky Willow	Shady/Wet	Minimal	60" + apart



Materials Needed

Mulch: 23 cubic feet (0.8 cubic yards) – this assumes 3” of mulch cover

Compost: 15 cubic feet (0.6 cubic yards) – this assumes the top 6” of soil is being amended with compost

Soil media: 90 cubic feet (3.3 cubic yards) – this is only required if replacing soil

Soil removal: 38 cubic feet (1.4 cubic yards) if amending soil, 113 cubic feet (4.2 cubic yards) if replacing soil

The plants recommended above are reliable, hardy, area-appropriate plants for central and eastern Maryland and the surrounding areas. However, many other options are available. Other references for appropriate plants include the [Maryland Stormwater Design Manual, Appendix A](#), the [Ladybird Johnson native plant database](#), and the [Piedmont Natives plant database](#).

There are alternative layouts possible with the same general character and plant makeup. [Click here for alternative layouts](#).

Also, if you use a custom size practice, by area or depth, the material quantities change. Use the following calculator to give you a more accurate set of material quantities. It will also calculate the amount of pollutant removal, which may be of interest. Note: this pollutant removal is not yet approved by the Chesapeake Bay Program, but is based on other Bay Program protocols for runoff reduction.

[Conservation Landscape calculator](#)

Installation Steps

(For more detail on these steps, please see the Conservation Landscape chapter of the WSA Manual.)

1. Call Miss Utility to mark any existing utilities
 - a. (800) 257-7777 or 811 for most of Maryland, and Washington, DC
 - b. (800) 441-8355 for Eastern Shore Maryland
 - c. (800) 282-8555 for Delaware
2. Outline the area for the conservation landscape
3. Remove the turf grass
4. If amending existing soil:
 - a. Remove excess soil
 - b. Add compost
 - c. Till soil to work compost in
5. If replacing soil:
 - a. Remove existing soil
 - b. Replace with new soil mixture
6. Install stone inlet channel (if receiving water from uphill)
7. Install plants and mulch
8. Water!

Maintenance Plan

Recommended Maintenance Tasks for Conservation Landscapes

Maintenance Tasks	Frequency
<ul style="list-style-type: none"> Water once every three days for the first month and then weekly during the first growing season (April-October), depending on rainfall. Expect up to 10% of the plant stock to NOT do well in the first year, and plan accordingly for replacement plants. 	Upon establishment
<ul style="list-style-type: none"> Check inlets and overflow areas for debris or leaves that are blocking flow. Check and repair erosion areas. 	After heavy rains in 1 st month; periodically in subsequent years
<ul style="list-style-type: none"> Remove weeds by hand. 	Monthly for first growing season; every 3 months in subsequent years
<ul style="list-style-type: none"> For “meadow” type Conservation Landscapes consisting of grasses, mow in early spring. For other types of landscapes, check for winter damage and add mulch to bare spots as desired (2–3 inches) Cut back perennials and remove dead growth 	March or April
<ul style="list-style-type: none"> Add reinforcement planting to maintain the desired vegetation density. Prune trees and shrubs; thin herbaceous plants as desired. 	Fall
<ul style="list-style-type: none"> Remove invasive and non-native plants using recommended control methods. Remove any dead or diseased plants. Stabilize any eroded or bare areas Remove trash 	As needed

Additional References

[WSA Rainscaping Manual](#)

[RainScapes Program \(Montgomery County, MD\)](#)

[U.S. Fish & Wildlife Service - BayScapes](#)