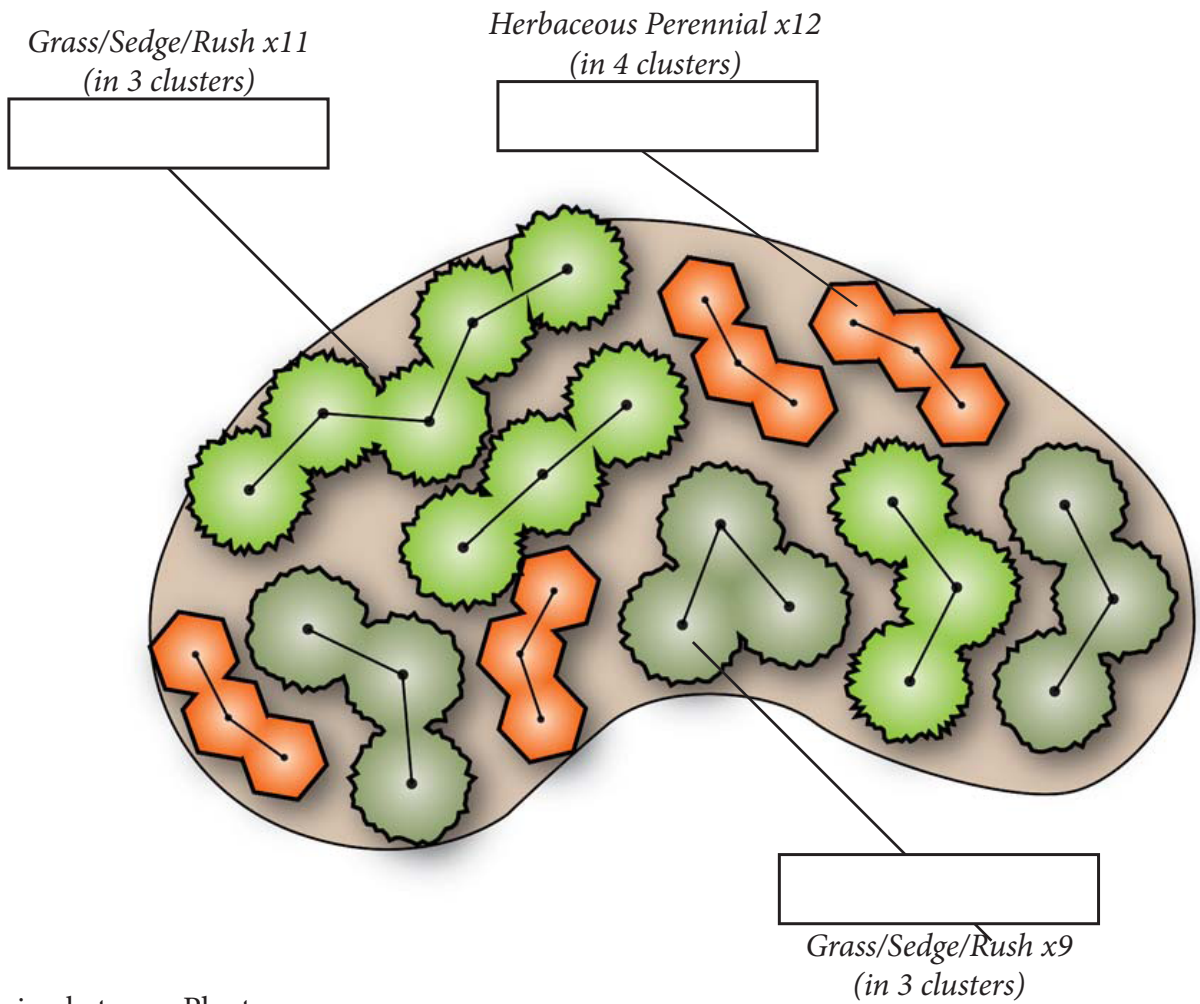


## Meadow – 90 square feet

Sunny, wet soils

(contained in 14.5 x 9 foot area)



### 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
Grass/Sedge/Rush	<i>Carex stricta</i>	Tussock Sedge	Sun/Wet	Minimal	18" apart
Grass/Sedge/Rush	<i>Elymus arenarius</i> 'Blue Dune'	Blue Lyme Grass	Sun/Wet	Low	18" apart
Grass/Sedge/Rush	<i>Juncus effusus</i>	Common Rush	Sun/Wet	Minimal	18" apart
Grass/Sedge/Rush	<i>Juncus inflexus</i> 'Blue Arrows'	Blue-green Rush	Sun/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Asclepias incarnata</i>	Swamp Milkweed	Sun/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Iris versicolor</i>	Blue Flag Iris	Sun/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Lobelia cardinalis</i>	Cardinal Flower	Sun/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Verbena hastata</i>	Blue Vervain	Sun/Wet	Minimal	18" apart
Herbaceous Perennial	<i>Vernonia noveboracensis</i>	New York Ironweed	Sun/Wet	Minimal	18" apart
Shrub	<i>Cephalanthus occidentalis</i>	Buttonbush	Sun/Wet	Minimal	48" apart
Shrub	<i>Cornus sericea</i>	Red Twig Dogwood	Sun/Wet	Minimal	48" apart
Shrub	<i>Hibiscus moscheutos</i>	Rose Mallow	Sun/Wet	Minimal	48" apart
Shrub	<i>Ilex verticillata</i> 'Southern Gentleman'	Pollinator for Sparkleberry Winterberry	Sun/Wet	Minimal	36" apart
Shrub	<i>Ilex verticillata</i> 'Sparkleberry'	Sparkleberry Winterberry	Sun/Wet	Minimal	60" apart
Shrub	<i>Myrica cerifera</i>	Southern Bayberry	Sun/Wet	Minimal	48" apart
Shrub	<i>Viburnum dentatum</i>	Arrowwood Viburnum	Sun/Wet	Minimal	48" apart
Tree	<i>Betula nigra</i>	River Birch	Sun/Wet	Minimal	60" + apart
Tree	<i>Magnolia virginiana</i>	Sweet Bay Magnolia	Sun/Wet	Minimal	60" + apart
Tree	<i>Nyssa sylvatica</i>	Black Tupelo	Sun/Wet	Minimal	60" + apart
Tree	<i>Taxodium distichum</i> 'Peve Minaret'	Peve Minaret Bald Cypress	Sun/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"> <li>Water once every three days for the first month and then weekly during the first growing season (April-October), depending on rainfall.</li> <li>Expect up to 10% of the plant stock to NOT do well in the first year, and plan accordingly for replacement plants.</li> </ul>	Upon establishment
<ul style="list-style-type: none"> <li>Check inlets and overflow areas for debris or leaves that are blocking flow.</li> <li>Check and repair erosion areas.</li> </ul>	After heavy rains in 1 <sup>st</sup> month; periodically in subsequent years
<ul style="list-style-type: none"> <li>Remove weeds by hand.</li> </ul>	Monthly for first growing season; every 3 months in subsequent years
<ul style="list-style-type: none"> <li>For “meadow” type Conservation Landscapes consisting of grasses, mow in early spring.</li> <li>For other types of landscapes, check for winter damage and add mulch to bare spots as desired (2–3 inches)</li> <li>Cut back perennials and remove dead growth</li> </ul>	March or April
<ul style="list-style-type: none"> <li>Add reinforcement planting to maintain the desired vegetation density.</li> <li>Prune trees and shrubs; thin herbaceous plants as desired.</li> </ul>	Fall
<ul style="list-style-type: none"> <li>Remove invasive and non-native plants using recommended control methods.</li> <li>Remove any dead or diseased plants.</li> <li>Stabilize any eroded or bare areas</li> <li>Remove trash</li> </ul>	As needed

## Additional References

[WSA Rainscaping Manual](#)

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

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