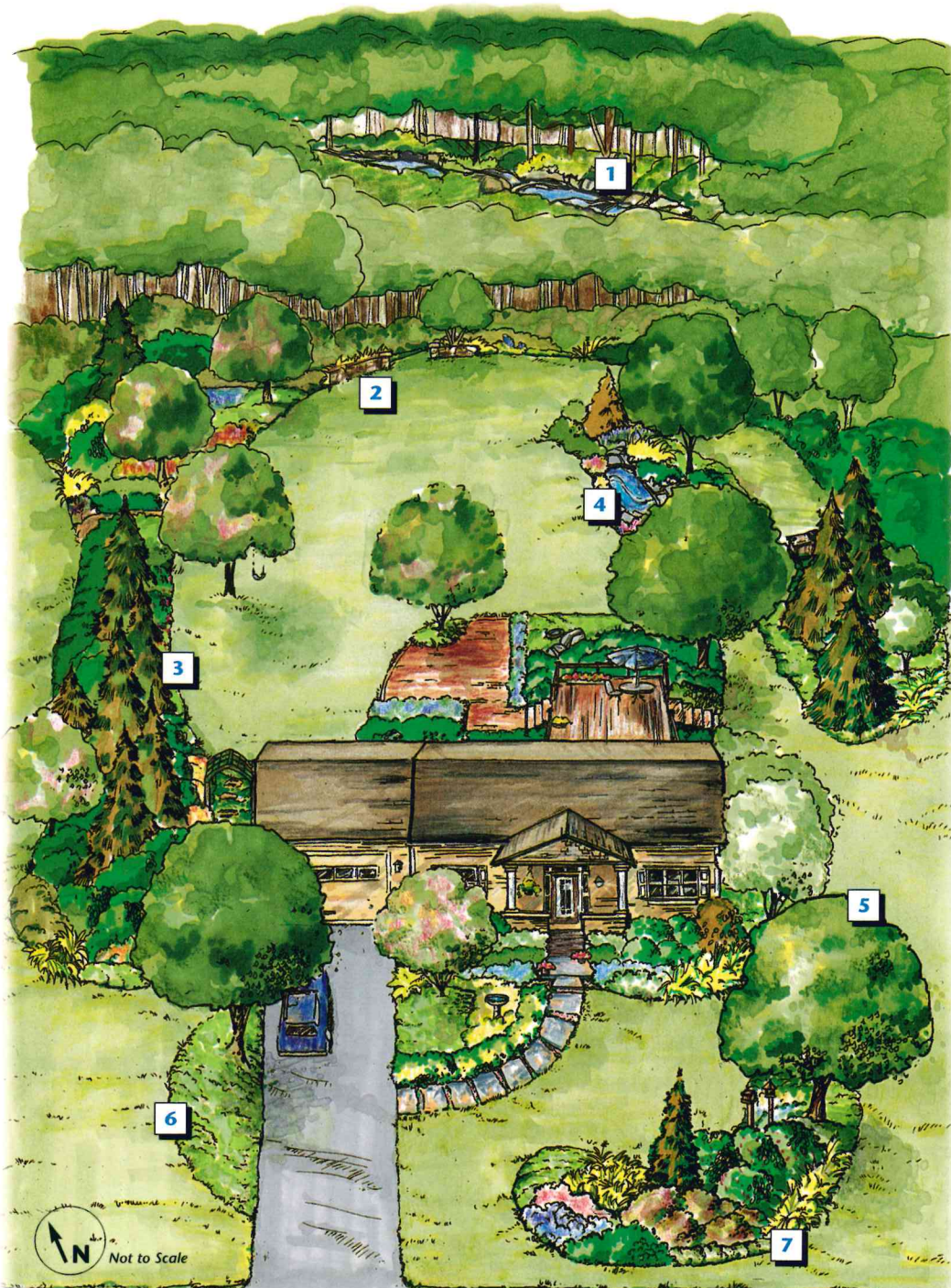# BayScapes

Homeowners' Guide
to Designing Your Property

This guide is designed to help you implement the concepts of BayScaping in your own yard. The enlargements on the inside pages show plant types and quantities for different areas of the property. The back page features a plant list for you to use to install this design.

Many BayScapes principles are illustrated in the features of this yard design.

1. Streambank Plantings:
water-loving trees, shrubs and perennial plants protect streambank from soil erosion.

2. Dry Laid Stone Wall:
provides habitat for small mammals.

3. Buffer Plantings:
screen winter winds; create wildlife habitat and corridors.

4. Water Garden:
provides water for wildlife.

5. Trees:
provide shade, reduce water runoff and clean the air.

6. Groundcovers:
reduce lawn and are perfect for sloped and rarely utilized areas.

7. Planting Islands:
add privacy and habitat, reducing high-maintenance lawns.

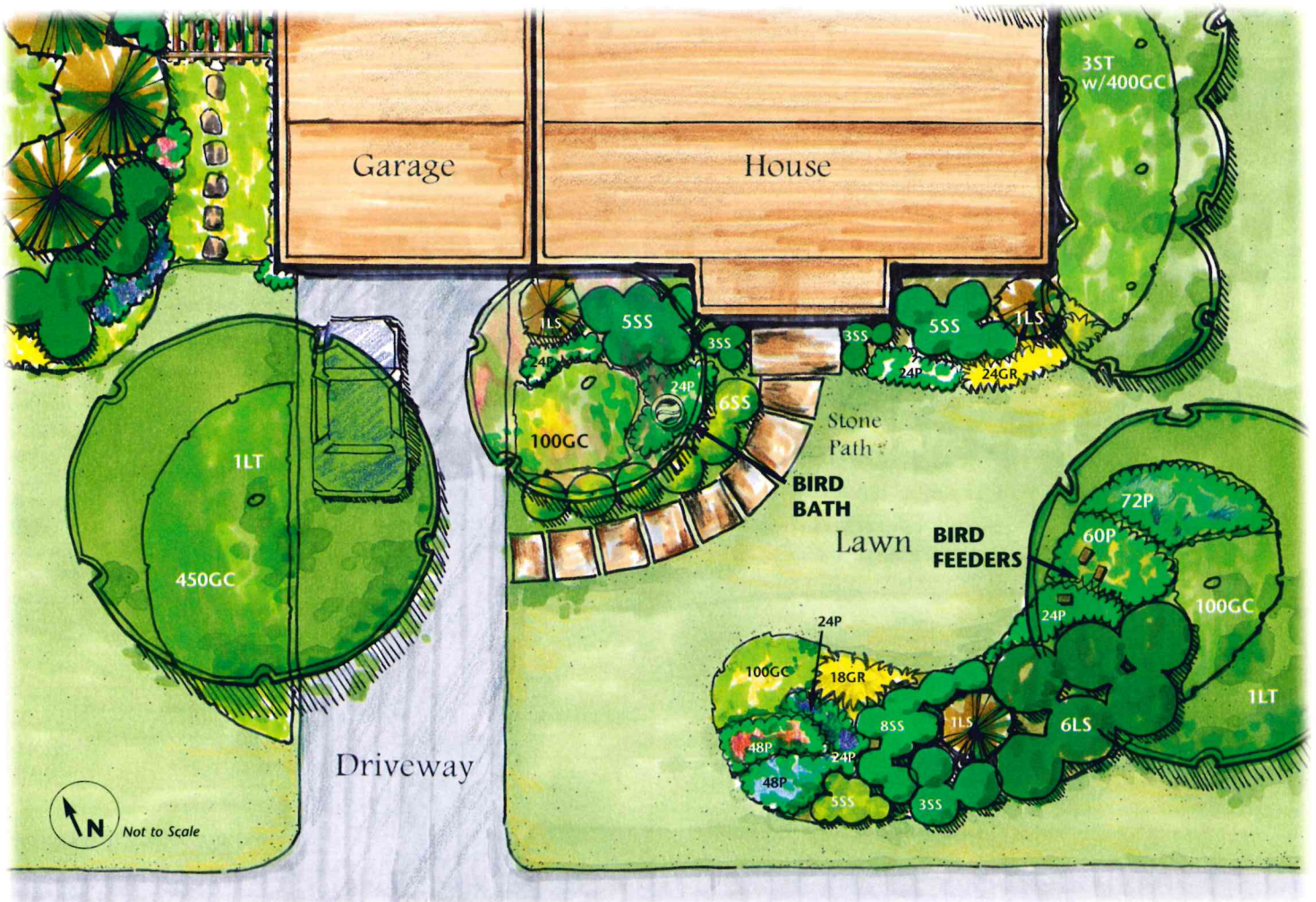N — Not to Scale

1/4 – 1/2 acre lot

These planting plans are examples of how to landscape using BayScapes principles.

BayScapes Principles

Plan for the Long Term • Create Diversity • Use Beneficial Plants • Conserve Water • Practice Conservation Landscaping

Front Yard

Planting islands feature plantings layered or integrated with a mix of trees, shrubs and groundcovers to reduce lawnmowing, fertilizer, herbicide and pesticide use. These islands also provide year-round beauty and homes for birds and other wildlife. A variety of native trees and shrubs should be used in combination with long-blooming perennials and groundcovers. *Bird feeders* and *bird baths* can be added to attract birds.

LEGEND

LT = Large Tree	**SS** = Small Shrub	• *The numbers indicate a general quantity of plants to be installed.*
ST = Small Tree	**P** = Perennial	• *Use the spacing chart to determine the exact quantity of plants for your garden area.*
ET = Evergreen Tree	**GC** = Groundcover	
LS = Large Shrub	**GR** = Grass	• *Use the plant list to help you choose your plants.*

Back Yard and Water Garden

The back yard features spaces for human enjoyment as well as wildlife habitat:

The ***deck and patio*** provide seating space for enjoyment of the back yard. Plantings include one large tree and a small tree to provide shade at differing heights. Groupings of large and small shrubs, perennials and groundcovers soften the structures.

The ***water garden*** is a visual focal point and a water source for wildlife. Groupings of evergreen and deciduous plants ensure interest in every season.

The ***compost bin*** allows recycling of kitchen and yard waste (including leaves), creating homemade organic fertilizer. Adding compost to planting beds replenishes nutrients without using synthetic fertilizers. Compost also enriches the soil to better support plants.

LEGEND

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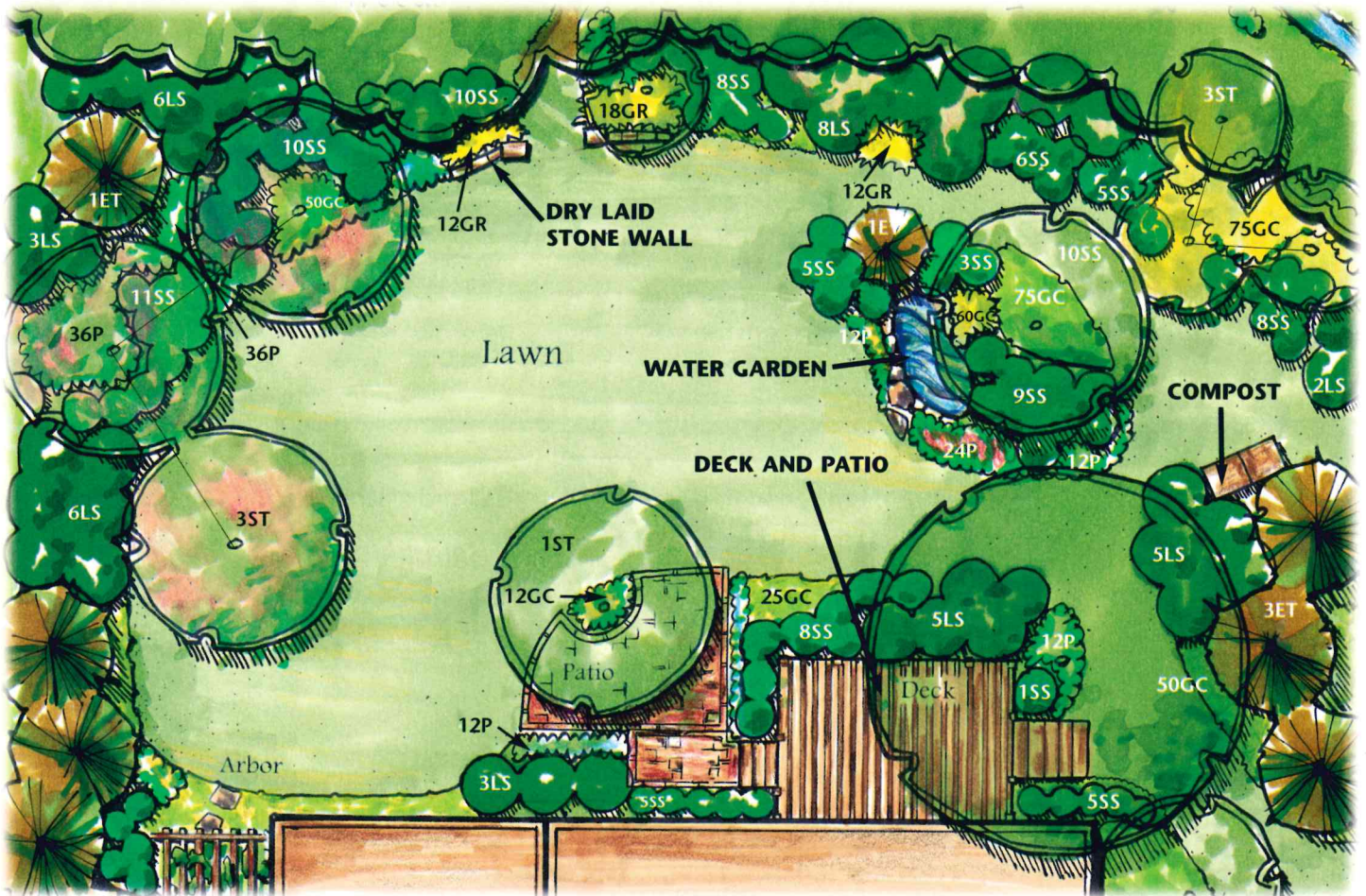
Side Yard Planting Screen

Groupings of beneficial plants create a privacy screen while blocking cold winter winds. The evergreen plantings provide nesting habitat. Consider teaming with your neighbors to plant a wider border to increase these benefits and make a corridor for wildlife to move between the properties. *Stepping stones* allow you to walk among the groundcovers. The *arbor* provides a place for climbing vines, which attract bees, butterflies and hummingbirds. Reduce lawn areas with the use of groundcovers such as moss for shady areas or thyme for sunny areas.
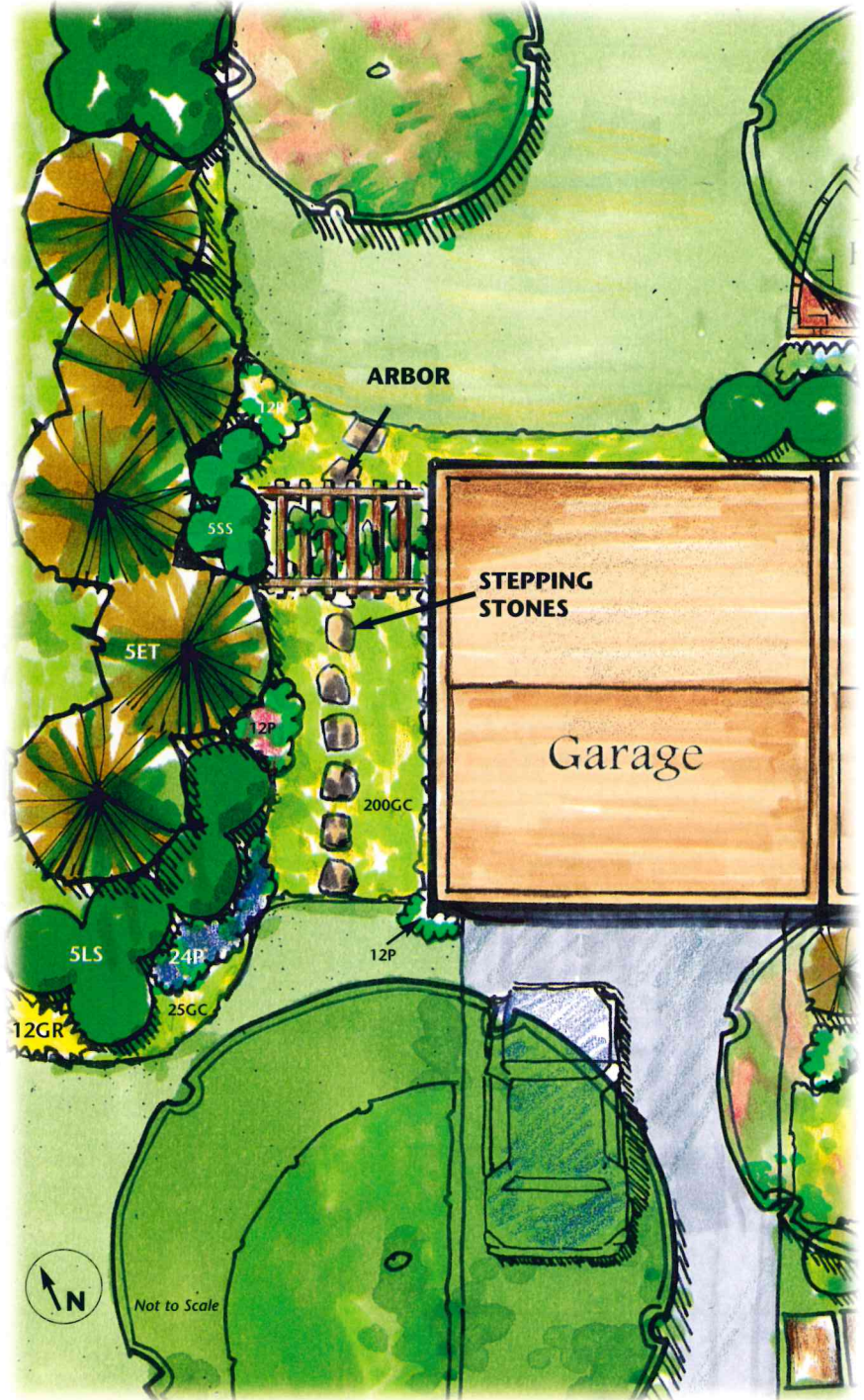
Tree and Shrub Spacing

When planning for tree and shrub plantings, consider their ultimate spread. Allow that distance between the trunks of the two plants.

Perennial and Groundcover Spacing

Perennials and groundcovers need to be spaced according to their ultimate size. To determine how many plants you will need, multiply the number of square feet by the number of plants required per square foot using this table. Distance apart is measured from the center of the plant.

Distance Apart	Plants/Sq. Ft.
4"	9.1
6"	2.5
8"	2.25
9"	1.77
10"	1.44
12"	1.00
18"	0.45
24"	0.24
36"	0.11

ARBOR

STEPPING STONES

Garage

SSS

SET

12P

200GC

5LS

24P

25GC

12P

12GR

N

Not to Scale

Printed on recycled paper, recyclable

Stream Buffer Planting

Planting native trees, shrubs and perennials next to streams protects the water from soil erosion and nutrient runoff. Stream buffers protect water quality by absorbing and filtering runoff from lawns and open spaces before it reaches the water. *Streambank or "riparian" plantings* also create aquatic habitat for bugs and fish by providing shade and places to hide.

For more information, additional Homeowners' Guides, native plant lists, and/or more BayScapes information, please visit our website at:

Alliance *for the* **Chesapeake Bay**
www.allianceforthebay.org

Call the Alliance for the Chesapeake Bay at:

Harrisburg, PA	**717-737-8622**
Baltimore, MD	**410-377-6270**
Richmond, VA	**804-775-0951**

Beneficial Plants for BayScaping in the Chesapeake Bay Region

This plant list is a guide to help you install your landscape plan. There are many more native plants that are suitable for BayScaping. Be careful to avoid invasive plants. Consult native plant lists for your region or your local nursery or agricultural extension agent for additional plants which may fit into your landscape.

LARGE TREE	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
Red maple	Acer rubrum	all	75' – 100'	red bloom	sun – ps	w – d	very high wildlife, buffer
River birch	Betula nigra	piedmont & coastal	50' – 75'	catkin flower	ps – fs	w – m	wildlife, buffer, ornamental
Red or green ash	Fraxinus pennsylvanica	piedmont & coastal	50' – 75'		sun	m	buffer
Sweet gum	Liquidambar styraciflua	piedmont & coastal	50' – 75'	ornamental capsule	sun	m – w	wildlife, ornamental
Tuliptree	Liriodendron tulipifera	all	75' – 100'	yellow-green bloom	sun	d – m	buffer, ornamental
Black gum	Nyssa sylvatica	all	50' – 75'		sun – ps	d	ornamental, high wildlife
White oak	Quercus alba	all	75' – 100'	acorn fruit	sun	d – m	very high wildlife

SM. TREE/LG. SHRUB	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
Shadblow serviceberry	Amelanchier canadensis	all	20' – 30'	deep black, edible fruit	sun – ps	d – m	very high wildlife, buffer
Eastern redbud	Cercis canadensis	mountains & piedmont	20' – 30'	pinkish bloom	sun – fs	d – m	ornamental
Flowering dogwood	Cornus florida	all	10' – 30'	white bloom/scarlet berries	sun – ps	d – m	wildlife, ornamental
Winterberry holly	Ilex verticillata	all	6' – 12'	red-berried fruit	ps	m – w	wildlife, ornamental
Witch hazel	Hamamelis virginiana	all	20' – 35'	yellow bloom-in fall	sun – ps	d	ornamental, borders
Northern bayberry	Myrica pensylvanica	piedmont & coastal	6' – 12'	waxy gray fruit	ps	d – w	high wildlife
Common elderberry	Sambucus canadensis	all	6' – 12'	white bloom/purple fruit	sun – fs	d – w	very high wildlife
Highbush blueberry	Vaccinum corymbosum	all - acid soil	3' – 10'	dark blue fruit	sun – fs	d – m	high wildlife, ornamental
Southern arrowwood	Viburnum dentatum	piedmont & coastal	6' – 12'	bluish-black fruit	sun – fs	m – w	wildlife, buffer, ornamental

EVERGREEN TREE/SHRUB	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
American holly	Ilex opaca	coastal	30' – 50'	red berry	sun – ps	m	cover, high wildlife, orn.
Common juniper	Juniperus communis	all	2' – 30'	blue-black berry	sun	d	cover, high wildlife,
Eastern red cedar	Juniperus virginiana	piedmont & coastal	50' – 75'	blue-green berry	sun	d	very high wildlife
Eastern white pine	Pinus strobus	mountains & piedmont	75' – 100'	five-needled bundle	sun	d	high wildlife, buffer

SMALL SHRUBS	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
Bearberry	Arctostaphlos urva-ursi	mountains & piedmont	1'	red berries	ps	d	ornamental
Fothergilla	Fothergilla gardenii	all	3' – 5'	white bottlebrush flowers	sun – fs	m – w	ornamental
Inkberry holly	Ilex glabra "Shamrock"	all	4' – 6'	black berry	ps	d – w	evergreen, cover
Compact Oregon grapeholly	Mahonia aquifolium "Compacta"	all	2' – 3'	yellow flower, blue berries	ps – fs	m – w	evergreen, ornamental
Pinxterbloom azalea	Rhododendron periclymenoides	mountains - acid soil	6'	pink bloom	ps	m – w	ornamental

PERENNIAL	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
Wild columbine	Aquilegia canadensis	all	8" – 24"	red & yellow flowers	sun – fs	d – m	wildlife, ornamental
Swamp milkweed	Asclepias incarnata	all	2' – 5'	pink-red flowers	sun – fs	m – w	wildlife, buffer
Butterfly weed	Asclepias tuberosa	all	1' – 3'	yellow to red flowers	sun	d	wildlife, ornamental
New England aster	Aster novae-angliae	all	3' – 4'	pink to violet flowers	sun	m	wildlife, ornamental
Tickseed	Coreopsis verticillata	all	1'	yellow flowers	fs	d – m	long flowering ornamental
Wild bleeding heart	Dicentra eximia	mountains & piedmont	8" – 12"	pink flowers	ps – fs	m	ornamental
Purple coneflower	Echinacea purpurea	all	2' – 3'	pink flower/seed heads	sun	d	wildlife, ornamental
Mistflower	Eupatorium colestinum	all	3' – 4'	violet-blue flowers	fs	m – w	wildlife, buffer, ornamental
Joe-pye-weed	Eupatorium fistulosum	all	5' – 10'	pink-purple flowers	sun	m – w	wildlife, buffer, ornamental
Wild geranium	Geranium maculatum	mountains & piedmont	1' – 2'	rose-purple flowers	sun	m	ornamental
Gayfeather	Liatris spicata	all	2'	purple flower spikes	sun	d	ornamental, wildlife
Black-eyed susan	Rudbeckia fulgida	all	2' – 3'	yellow flowers	sun	d	wildlife, buffer, ornamental
Goldenrod	Solidago rugosa	all	2' – 7'	yellow flowers	sun – ps	d – m	wildlife, buffer
New York ironweed	Vernonia noveboracensis	all	Up to 7'	deep purple flowers	sun	m – w	wildlife, buffer, ornamental

GROUNDCOVER	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
Green and gold	Chrysogonum virginianum	all	4" – 12"	yellow-green flowers	ps – fs	m	ornamental
Woodland phlox	Phlox divaricata	mountains & piedmont	6" – 18"	blue flowers, semi-evergreen	ps	m	wildlife, ornamental
Creeping phlox	Phlox stolonifera	all	3" – 4"	semi-evergreen	sun – ps	m	ornamental
Sensitive fern	Onoclea sensibilis	all	18" – 24"	dried brown spore-stalks	ps – fs	m – w	ornamental
Foamflower	Tiarella cordifolia	mountains & piedmont	6"	white flower	ps	m – w	ornamental

GRASS	BOTANICAL NAME	REGION	HEIGHT	BLOOM/FRUIT	SUN/SHADE	DRY/WET	VALUE
Switchgrass	Panicum virgatum	all	3' – 5'	seeds	sun	d	wildlife, ornamental
Little bluestem	Schizachyrium scoparium	all	up to 3'	seeds	sun	d	wildlife, ornamental
Indian grass	Sorghastrum nutans	all	5' – 6'	seeds	sun	d – m	wildlife, ornamental

LEGEND

VALUE:	Wildlife = provides food and/or shelter	SUN/SHADE:	sun = sun	DRY/WET:	w = moisture
	Buffers = for streamside or riparian areas		ps = partial shade		m = moderate
	Ornamental = attractive, decorative plant		fs = full shade		d = drought tolerant