

Acknowledgments

Contributors: Printing was made possible through the generous funding from Adkins Arboretum; Baltimore County Department of Environmental Protection and Resource Management; Chesapeake Bay Trust; Irvine Natural Science Center; Maryland Native Plant Society; National Fish and Wildlife Foundation; The Nature Conservancy, Maryland-DC Chapter; U.S. Department of Agriculture, Natural Resource Conservation Service, Cape May Plant Materials Center; and U.S. Fish and Wildlife Service, Chesapeake Bay Field Office.

Reviewers: species included in this guide were reviewed by the following authorities regarding native range, appropriateness for use in individual states, and availability in the nursery trade:

Rodney Bartgis, The Nature Conservancy, West Virginia.

Ashton Berdine, The Nature Conservancy, West Virginia.

Chris Firestone, Bureau of Forestry, Pennsylvania Department of Conservation and Natural Resources. Chris Frye, State Botanist, Wildlife and Heritage Service, Maryland Department of Natural Resources. Mike Hollins, Sylva Native Nursery & Seed Co.

William A. McAvoy, Delaware Natural Heritage Program, Delaware Department of Natural Resources and Environmental Control.

Mary Pat Rowan, Landscape Architect, Maryland Native Plant Society.

Rod Simmons, Maryland Native Plant Society.

Alison Sterling, Wildlife Resources Section, West Virginia Department of Natural Resources.

Troy Weldy, Associate Botanist, New York Natural Heritage Program, New York State Department of Environmental Conservation.

Graphic Design and Layout: Laurie Hewitt, U.S. Fish and Wildlife Service, Chesapeake Bay Field Office.

Special thanks to: Volunteer Carole Jelich; Christopher F. Miller, Regional Plant Materials Specialist, Natural Resource Conservation Service; and R. Harrison Weigand, Maryland Department of Natural Resources, Maryland Wildlife and Heritage Division for assistance throughout this project.

Citation: Slattery, Britt E., Kathryn Reshetiloff, and Susan M. Zwicker. 2003. Native Plants for Wildlife Habitat and Conservation Landscaping: Chesapeake Bay Watershed. U.S. Fish & Wildlife Service, Chesapeake Bay Field Office, Annapolis, MD. 82 pp.

2003

Table of Contents

Introduction	
Benefits of Conservation Landscaping	
Why Use Native Plants	'
Conservation Landscaping Elements	'
How to Choose Plants	
Where to Find Native Plants	
How To Use This Guide	
Plant Names and Types	
Characteristics	
Growth Conditions	8
Habitat	
Native To (Where to Use)	
Wildlife Value	1
Notes	10
Plant Information Pages	4.
FernsGrasses & Grasslike Plants	
Herbaceous Plants	
Herbaceous Emergents	
Shrubs	
Trees	
Vines	6
Plants with a Purpose	
Plants for Coastal Dunes	6
Plants for Saltwater or Brackish Water Marshes	
Plants for Freshwater Wetlands and Other Wet Sites	
Plants Appropriate for Bogs or Bog Gardens Plants for Dry Meadows	
•	
Plants for Wet Meadows	
Plants for Forest or Woodland Plantings	
Solutions for Slopes	
Evergreens	
Plants to Use as Groundcovers	
Plants for Spring and Fall Color	
Deer Resistant Plants	73
Photo Credits	7
References	
Index	

To the Reader

The use of native plants in landscaping and of course habitat restoration is certainly not new. In fact, their use has grown exponentially in recent years. Natural resources professionals in turn have been flooded with requests for information on native plants to use in various types of planting projects. Communities, schools, businesses, nonprofit organizations, watershed groups, local governments, state and federal agencies and many others are enhancing and restoring habitat, solving ecological problems, reducing maintenance, or just beautifying surroundings, all using locally native plants. Natural resources professionals, in turn, have been flooded with requests for information on native plants to use in various types of planting projects. There are many excellent resources available on native plants - some more technical than others, some more comprehensive than others. The frustration voiced most frequently by users is the lack of color photographs of the plants. After all, it is the striking visual quality of these plants that is their best "selling point."

This publication includes those pictures as well as user-friendly information on native species appropriate for planting in the Chesapeake Bay watershed and adjacent coastal regions. Although one guide cannot furnish the answers to every question, we have included as much useful information as possible in a limited space. Although the large number of species of plants included here may overwhelm some readers, this guide displays the great diversity of plants available. We hope you will bypass the over-used, non-native and sometimes invasive ornamental plants, and select the equally and often more attractive native plants. Pour through this guide the same way you look through nursery catalogs. Use it to plan and design your next planting, whether it's a small corner of your front yard, a two-acre meadow seeding, or 100 acres of wetland restoration.

Native Plants for Wildlife Habitat and Conservation Landscaping:

Chesapeake Bay Watershed

Introduction

"Conservation landscaping" refers to landscaping with specific goals of reducing pollution and improving the local environment. In the Chesapeake Bay watershed (the land that drains to the Bay and its many tributaries), this style of landscaping is sometimes called "BayScaping," or beneficial landscaping.

Conservation landscaping provides habitat for local and migratory animals, conserves native plants and improves water quality. Landowners also benefit as this type of landscaping reduces the time and expense of mowing, watering, fertilizing and treating lawn and garden areas, and offers greater visual interest than lawn. Beneficial landscaping can also be used to address areas with problems such as erosion, poor soils, steep slopes, or poor drainage.

One of the simplest ways to begin is by replacing lawn areas with locally native trees, shrubs and perennial plants. The structure, leaves, flowers, seeds, berries and other fruits of these plants provide food and shelter for a variety of birds and other wildlife. The roots of these larger plants are also deeper than that of typical lawn grass, and so they are better at holding soil and capturing rainwater.

Benefits of conservation landscaping

Americans manage approximately more than 30 million acres of lawn. We spend \$750 million per year on grass seed. In managing our yards and gardens, we tend to over-apply products, using 100 million tons of fertilizer and more than 80 million pounds of pesticides annually. The average homeowner spends 40 hours per year behind a power mower, using a quart of gas per hour. Grass clippings consume 25 to 40% of landfill space during a growing season. Per hour of operation, small gas-powered engines used for yard care emit more hydrocarbon than a typical auto (mowers 10 times as much, string trimmers 21 times, blowers 34 times). A yard with 10,000 square feet of turf requires 10,000 gallons of water per summer to stay green; 30% of water consumed on the East Coast goes to watering lawns.

The practices described in this guide reduce the amount of intervention necessary to have attractive and functional landscaping. Conventional lawn and garden care contributes to pollution of our air and water and uses up non-renewable resources such as fuel and water. Many typical landscapes receive high inputs of chemicals, fertilizers, water and time, and require a lot of energy (human as well as gas-powered) to maintain. The effects of lawn and landscaping on the environment can be reduced if properties are properly managed by using organic alternatives applied correctly, decreasing the area requiring gas-powered tools, using native species that can be sustained with little watering and care, and using a different approach to maintenance practices.

With conservation landscaping, there is often less maintenance over the long term, while still presenting a "maintained" appearance. Conservation landscapes, like any new landscape, will require some upkeep, but these alternative measures are usually less costly and less harmful to the environment. New plants need watering and monitoring during the first season until they become established. Disturbed soil is prone to invasion by weeds - requiring manual removal (pulling) instead of chemical application. Over time, desired plants spread to fill gaps and natural cycles help with pest control. Garden maintenance is reduced to only minimal seasonal cleanup and occasional weeding or plant management. The savings realized by using little or no chemicals, and less water and gas, can more than make up for initial costs of installing the landscaping. Redefining landscaping goals overall and gradually shifting to using native species provide even greater rewards in terms of environmental quality, landscape sustainability, improved aesthetics, cost savings, and bringing wildlife to the property.

Why use native plants?

Native plants naturally occur in the region in which they evolved. While non-native plants might provide some of the above benefits, native plants have many additional advantages. Because native plants are adapted to local soils and climate conditions, they generally require less watering and fertilizing than non-natives. Natives are often more resistant to insects and disease as well, and so are less likely to need pesticides. Wildlife evolved with plants; therefore, they use native plant communities for food, cover and rearing young. Using native plants helps preserve the balance and beauty of natural ecosystems.

This guide provides information about native plants that can be used for landscaping projects as well as large-scale habitat restoration. All of the plants presented are native to the designated areas, however not *all* of the native species for that area have been included. Rather, plants have been included because they have both ornamental and wildlife value, and are generally available for sale. This guide covers the entire Chesapeake Bay watershed, including south central New York; most of Pennsylvania, Maryland and Virginia; the District of Columbia; Delaware, west of Delaware Bay; and the eastern panhandle of West Virginia.

The region's wildlife, plants, habitats and network of streams and rivers leading to the Bay are tremendous resources. As the human population throughout the Chesapeake Bay watershed grows and land-use pressures intensify, it is increasingly important to protect our remaining natural areas and wildlife, and restore and create habitat. By working together, these treasures can be conserved for future generations. Individual projects are great, collective measures are even better, yet every action helps no matter what size.

Conservation landscaping elements

We can incorporate elements of natural systems into the existing areas where we live, work, learn, shop and play. Landscaping provides valuable opportunities to reduce the effects of the built environment. These areas can be both aesthetically pleasing and functional. Use of native species will make your garden or landscaping more environmentally beneficial. By combining plant selection with some of the other concepts below, you can achieve more environmental benefits.

Reduce disturbance. Carefully decide where new development will occur to avoid destruction of existing habitat as much as possible. Take advantage of the site's existing natural features.

Reduce lawn or high maintenance areas. Replace turf or ornamental plantings by adding new landscaping beds and/or enlarge existing ones with native plants.

Think big, but start small. Draw up a plan for your entire yard but choose one small area for your first effort. Trial and error with the first project will help you learn without being overwhelmed. Phase in the whole project over time.

Use native plants. Start by using natives to replace dead or dying non-native plants, or as a substitute for invasive non-natives in existing gardens or landscaping. Plan to use native plants in new landscaping projects.

Avoid invasive species. Non-native plants can be invasive. They have few or no naturally occurring measures to control them, such as insects or competitors. Invasive plants can spread rapidly and smother or out-compete native vegetation. Invasive, non-native plants are not effective in providing quality habitat. A copy of the publication "Plant Invaders of Mid Atlantic Natural Areas" can be downloaded from www.nps.gov/plants/alien/pubs/midatlantic/index.htm.

Improve water quality. Native species planted on slopes, along water bodies and along drainage ditches help prevent erosion and pollution by stabilizing the soil and slowing the flow of rainwater runoff. To collect and filter runoff, depressions can be created and planted with native plants suited to temporary wet conditions. These "rain gardens" will capture water and hold it *temporarily for a*

In certain conditions, some native plants can also become aggressive spreaders, though their spread is more limited by natural controls than non-native aggressors. Plants that seed readily (such as black-eyed Susan, *Rudbeckia* species), or that spread by lateral roots (such as mint family plants *Monarda* or *Physostegia* species) should be used sparingly or controlled in gardens. Certain native species that are difficult to control or show up uninvited should not be planted, such as cattail (*Typha* species).

day or two and remove pollutants washing off of the surrounding land.

Enhance and create wildlife habitat. An animal's *habitat* is the area where it finds food, water, shelter, and breeding or nesting space, in a particular arrangement. If we want our gardens to have the greatest ecological value for wildlife, we need to mimic natural plant groupings and incorporate features that provide as many habitat features as possible.

Plants are one of the most important features of an animal's habitat, because they often provide most, or even all of the animal's habitat needs. Animals in turn help plants to reproduce through dispersal of pollen, fruits or seeds. Consequently, plants and animals are interdependent and certain plants and animals are often found together. So, it is important that plants be selected, grouped, and planted in a way that is ecologically appropriate.

Each plant prefers or tolerates a range of soil, sunlight, moisture, temperature and other conditions, as well as a variety of other factors including disturbance by natural events, animals or human activities. Plants sharing similar requirements are likely to be found together in plant *communities* that make up different habitat types - particular groupings of plant communities commonly recognized as wetlands, meadows, forests, etc. Some plants may tolerate a wider range of conditions than others, and therefore can be found at more than one type of site, in association with a different set of plants at each. By matching plants with similar soil, sunlight, moisture and other requirements, and planting them to the existing site conditions, the planted landscapes will do a good job of approximating a natural habitat.

Instead of isolated plantings, such as a tree in the middle of lawn, group trees, shrubs and perennials to create layers of vegetation. A forest has, for example, a *canopy* layer (tallest trees), *understory* layers (various heights of trees and shrubs beneath the canopy) and a ground layer or forest floor. These layers provide the structure and variety needed for shelter, breeding or nesting space for a diversity of wildlife.

To provide food and cover for wildife year-round, include a variety of plants that produce seeds, nuts, berries or other fruits, or nectar; use evergreens as well as deciduous plants (those that lose their leaves); and allow stems and seedheads of flowers and grasses to remain standing throughout fall and winter.

All animals need water year-round to survive. Even a small dish of water, changed daily to prevent mosquito growth, will provide for some birds and butterflies. Puddles, pools or a small pond can be a home for amphibians and aquatic insects. A larger pond can provide for waterfowl, such as ducks and geese, and wading birds such as herons. Running or circulating water will attract wildlife, stay cleaner and prevent mosquitoes.

Rock walls or piles, stacked wood, or brush piles provide homes for insects, certain birds and small mammals. Fallen logs and leaf litter provide moist places for salamanders, and the many organisms that recycle such organic matter, contributing nutrients to the soil. Standing dead tree trunks benefit cavity-nesting wildlife such as woodpeckers.

Consider naturalistic planting, or habitat restoration. It may be feasible to create a more natural landscape instead of a formal one. Naturalistic landscaping uses patterns found in nature, and allows some nature-driven changes to occur. Plants multiply, and succession or gradual replacement of species may take place, with less human intervention. A property located near natural areas, such as forests, wetlands and meadows, is a good candidate for a habitat project. Expand existing forest by planting trees and shrubs along the woods line, using native species that grow in the area, and allow birds and wind to bring the understory plants over time. Wet sites, areas with clay soils, or drainage ditches can be converted to wetlands. An open piece of ground or lawn can be planted as a meadow or grassland. Schools, homes, small businesses, large corporate sites, municipalities, military installations, recreational areas and other public lands can all include habitat plantings.

How to choose plants

Finding ready information about what plants "go together" for habitat restoration, enhancement, or creation projects is difficult. Often, the professional will examine a nearby natural area and try to mimic the combination of plant species found there. That may not be possible for individuals unfamiliar with natural areas. Fortunately, by following some simple guidelines, you will have garden spaces that grow well on your site and mirror the plant communities found naturally in your area. The plant lists found at the end of this guide will also help give you a start at planting appropriate groupings.

- Know your site and plant to the existing site conditions. Check the sun exposure, soil moisture and soil type where you plan to plant, and choose plants that will grow and thrive in those conditions. For a few dollars your state or local cooperative extension office can analyze a small soil sample you send them (for contact information, see your government listings in the phone book). The results will include soil type (sand, clay, loam, etc.), pH and fertility status and recommendations for amending the soil to make it into "average garden soil." However, by selecting native species that thrive in the existing conditions, you won't need to add soil, fertilizer, lime or compost. There are a wide variety of plants that will thrive in most conditions, even the driest, poorest soil or very wet clay soil. If, however, the soil test shows extreme pH very acidic (pH of less than 5) or very basic (pH 8 or above), your plant choices will be fairly limited. In that case, you might choose to follow the instructions for making the soil more neutral. If the soil is hard, compacted fill dirt, you might want to improve it by adding organic matter and work the ground so that it can more easily be planted. If you alter the site, then select plants suited to the new conditions.
- Choose plants native to your region of your state. Along with planting to the existing site conditions, use locally native plants. Use the map on page 9 to identify which **physiogeographic region** the planting site lies in. If you're close to a border dividing two regions, you may choose plants from either or both regions.
- Choose a habitat type. Try to create or emulate a specific habitat, like woods, wetland or meadow, and choose plants that are appropriate to both your site and the habitat. Look through this guide and mark the plants with growth requirements that match conditions at the planting site. This will help improve the success of your planting, the habitat value, and the ecological functioning of the project. This publication will eventually be made available online, in a format that can be electronically sorted by plant characteristics or growth conditions.

Where to find native plants

Most nurseries carry some native plants, and some nurseries specialize and carry a greater selection. As the demand for native plants has grown, so has the supply at nurseries. Some plants will be more readily available than others. Here, we've focused on species most appropriate for planting and available through the nursery trade. A limited number of species included here are not commonly available but are able to be nursery grown. Take this guide along with you when you visit nurseries and if you need help, ask for nursery staff familiar with native plants. If you see a plant you like, check to see if it's included in the guide for your state and physiographic region. For those species that are more difficult to find, the hope and intention is that this publication will spark a demand, and hence a greater supply. If you have a favorite plant that you can't obtain, be sure to ask your local nursery to consider adding it to their stock. A list of some of the many retail and wholesale native plant nurseries in the Chesapeake Bay region is available from the U.S. Fish and Wildlife Service, Chesapeake Bay Field Office at www.fws.gov/r5cbfo/bayscapes.htm.

For the greatest ecological value, select the "true" native species, especially if planting for wildlife benefit. There are cultivated varieties (*cultivars*) available for many native plants. These are named using the scientific name (Latin genus and species, such as *Rudbeckia fulgida*) plus the cultivar name, a third word in single quotation marks (such as *Rudbeckia fulgida* 'Goldsturm'). These varieties have been grown to provide plants with certain physical characteristics, perhaps a different flower color, different foliage or a compact shape or size. Although these are suitable for gardening use, use true species (not cultivars) if you are planning a habitat project to provide

food for wildlife. These plants are most suited to use by the native wildlife, and will increase your chances of attracting them.

Native plants should never be removed from the wild unless an area is about to be developed. Even then, it is difficult to transplant wild-collected plants and to duplicate their soil and other growth requirements in a home garden. Plants that are grown from seed or cuttings by nurseries have a much greater tolerance for garden conditions. Help to preserve natural areas by purchasing plants that have been grown, not collected.

Ask nurseries about the source of the native species sold. Did they come from seed or cuttings of plants found growing locally, or are they from another region? Ideally, the plants you use should come from stock from the same region, say, within about a 200-mile radius in the same physiographic province (coastal plain, Piedmont, or mountain). Differences exist from region to region even in the same plant species, due to differences in climactic conditions between distant locations. For example, a plant grown in Maine may flower at a different time than the same species grown in Maryland. They may have slight physical differences. These characteristics make a difference in designing gardens and they matter to wildlife seeking food sources. The more consumers ask for locally grown plants or seed, the more likely it is that nurseries will carry local stock.

Once you begin to explore and experiment with native plants, you'll soon discover that many of these plants go beyond just replacing worn out selections in your yard. Native plants will eventually reduce your labor and maintenance costs while inviting wildlife to your yard helping to create your own sense of place.

How to use this guide

Plant Names and Types

Plants are organized within each section alphabetically by scientific name. All scientific plant names used are based on names accepted by ITIS, the Integrated Taxonomic Information System. Plants are indexed at the back of the book by scientific as well as frequently used common names. Scientific names are changed periodically as new information is gathered; for those commonly recognized names that changed during development of this guide, the new names are used here, with a cross reference noted in the index. For example: *Aster divaricatus* is now *Eurybia divaricata*, so the plant is listed in the index under both *Aster* and *Eurybia*.

Plants are grouped by botanical categories: Ferns; Grasses & Grasslike Plants (includes grasses and plants with long slender leaves that may appear similar to a grass); Herbaceous Plants (includes flowers and groundcovers); Herbaceous Emergents (plants that grow in moist to wet soils, wetlands or in standing water with roots and part of their stems below water but with most of the plant above the water); Shrubs; Trees; and Vines.

A note about groundcovers: English ivy, periwinkle, creeping lily turf and Japanese pachysandra are some commonly used groundcovers, particularly for shade. However, these species are non-natives that are invasive in the landscape, so they should be *avoided*. What native alternatives can be used instead? A groundcover can be any plant that would physically cover or hide the bare ground from view. For the purposes of environmentally beneficial landscaping and habitat enhancement, any plant in the "herbaceous" category would make a good groundcover. For those gardeners and landscapers still seeking a low-growing, creeping, spreading, or clump-forming plant for a groundcover, these plants are marked with a symbol in the Notes column and a list is included at the end of the guide.

Characteristics

 Height and/or Spread The typical mature height or possible range of heights is given in feet, to the nearest half (0.5) foot. Height may vary depending on conditions (e.g., amount of moisture or sun). For trees and vines, spread is also given in feet. For trees, spread is the measurement of the crown of the plant; for vines, spread is the length a vine will grow along a surface.

- Flowers: bloom period and flower color The typical months in which the plant blooms are given. The exact time and duration of bloom may be shifted by days or weeks for different areas and/or depending on seasonal weather conditions and climactic trends. The basic, overall color of the flower is noted. The color of a flower's center or throat may not be included due to limited text space. For simplicity, some shades or tones of colors have been grouped, e.g. lavender, pale purple, bluish purple, even fuchsia may have been listed simply as purple; tan, brown, dark brown are all listed as brown; yellows and pinks may be similarly condensed.
- Fruit: fruiting period, color and type This information is provided for plants with more conspicuous fruits or visually interesting seeds. Terms used include: Achene, a dry flat seed such as in clematis; Berry, which includes small single berries such as blueberry, larger berries such as persimmon, aggregates such as blackberry and hips such as a rose hip; Capsule, including various types and sizes of dry fruits with two or more compartments containing seeds, such as iris, sweet pepperbush, hibiscus, or black-eyed Susan; Conel cone-like such as pines, hemlock, or alder; fleshy pomes or drupes such as hawthorn, beach plum, paw paw, passion flower, or cherry; Nut/nut-like, as in acorns (oaks) or hickory; Pod, which may include pea-like legumes such as partridge pea or wild senna, follicles or other long pod-like capsules such as milkweeds, delphinium, or trumpet creeper; and Winged, such as the samaras of maples or elm.
- Fall Color The color listed indicates the fall color of the leaves, or of the stems for certain plants such as grasses. Some color shades have been grouped by the basic color, as for flower color. Evergreens, species that retain their leaves throughout the winter (in all plant categories), are designated with a ▲ symbol in the Notes column. Evergreens are popular for various landscaping uses and valuable for year-round cover for wildlife.

Growth Conditions

- Light The amount of sunlight a plant requires is defined as: Full Sun ♣, the site is in direct sunlight for at least six hours a day during the growing season; Partial shade ♣, the site receives approximately three to six hours of direct sunlight; and Shade ♠, the site receives less than three hours of direct sunlight or filtered light.
- Moisture The amount of soil moisture a plant requires is defined as: Dry (D), areas where water does not remain after a rain (areas may be in full sun or in a windy location, on a steep slope, or have sandy soil); Moist (M), areas where the soil is damp, and may be occasionally saturated; and Wet (W), areas where the soil is saturated for much of the growing season, except in droughts. Many of the plants designated for wet areas tolerate specific ranges of water depths (see Flood Depth). Plants with the Dry designation can be considered drought tolerant.
- Soil pH and Type Many of the native plants listed will tolerate a range of soil types. Soil types are listed here as Organic (O), containing a high amount of organic material such as decayed leaves and bark; Clay or fine-textured (C) soils with a high clay content and some silt very fine soil particles; Loamy or medium-textured (L) soils that contain a mix of mostly silt and sand but may contain some clay; and Sandy or coarse-textured (S) soils with larger particles. Soil information has necessarily been simplified for this guide, and lumped into these main categories, which will suffice for the novice. Soils in actuality are often a mixture or gradations of types, categorized by the percentages they contain of clay, silt or sand, for example clay loam (a certain mix of clay and sand); sandy clay; silt loam; or silty clay loam. For best results, select plants suited to existing site conditions rather than amending the soil. However, be aware that plant selection may be limited if your site has very sandy soil, heavy clay, compacted soil, or extreme soil pH (above 8 or below 5.5). In these cases, seek advice from a nurseryman, horticulturist, botanist, Cooperative Extension agent, or other expert.
- Flood Depth Some plants tolerate prolonged standing water, and occur in specific
 water depths or range of depths. In the Herbaceous Emergents section, the depth of
 water tolerated is indicated (in inches). Other types of wetland plants that can tolerate
 only intermittent flooding appear in other sections of the guide, and their flood tolerance

information is included in the Notes column. For more complete information on planning and planting wetlands, see the references listed at the end of this guide.

• Salt Tolerance Some plants that tolerate prolonged standing water can tolerate saltwater or brackish (partly salty) water. For plants in the Herbaceous Emergents section, the salinity range in which each of these plants will grow is given in parts (of salt) per thousand parts (of water) or ppt, from 0 ppt (fresh water) to the maximum salinity tolerated. For plants in other sections of the guide, the maximum salinity is given in the Notes column. Full seawater is approximately 32 ppt. If salinity is not given, then the plant grows in fresh water only or in drier conditions.

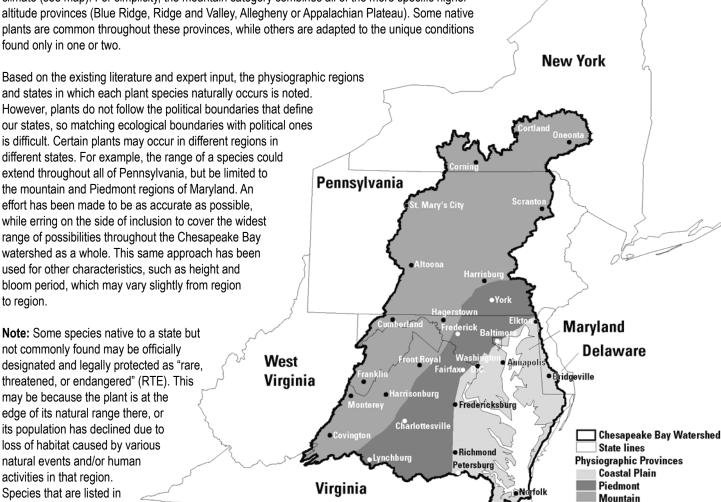
Habitat

a state as RTE should

For each plant in this guide, we include a description of habitats in which that plant may be found. Several habitat types may be mentioned as each plant is rarely found in one and only one habitat type. There are dozens of forest types, several types of wetlands including forested wetlands and even wet meadows. The habitats described include those that provide the conditions most preferred by each plant species. To help with planning projects, sample lists of plants to use in certain habitat types, or certain site conditions, are given in the back of this guide. More technically detailed information on plant communities can be found in resources listed in the references section.

Native To (Where To Use) - States and Physiographic Regions

From the sandy dunes of the coast to the rocky slopes of the mountains, the rich variety of habitats found throughout the region is strongly linked to its geology, topography and climate. For this guide, the states in the Chesapeake Bay watershed have been divided into three regions or provinces: (1) the coastal plain (C), an area with fairly flat topography and more southern climate; (2) the Piedmont plateau (P), with its rolling hills; and (3) the mountain zone (M), a more northern climate (see map). For simplicity, the mountain category combines all of the more specific higheraltitude provinces (Blue Ridge, Ridge and Valley, Allegheny or Appalachian Plateau). Some native plants are common throughout these provinces, while others are adapted to the unique conditions found only in one or two.



generally not be planted there, because importing species from elsewhere could potentially lead to damaging alteration of the gene pool of the remaining population. This guide lists only those states in which a plant is common and recommended for planting. As a general rule of thumb, if a plant you like is not designated in this guide for your state or your region of the state, we strongly encourage you to forego planting that and select another plant suited to your site.

Wildlife Value

The notation "high wildlife value" is based mainly on the value of the fruits, seeds and/or nectar used as food for wildlife, and the relative number of species using the plant for food. But remember that animals use leaves, twigs, roots and shoots for food or nesting material, and every plant has value as cover and/or nesting sites. In that respect, although we've marked those of higher wildlife (food) value, every plant in this guide has value to wildlife, as well as other environmental values.

The **types of wildlife** noted here are those desirable species that are likely to use the plants for food, including pollinators which are critical to plant reproduction, for gardens, natural areas and agricultural crops. The information here is fairly general. The songbird icon indicates use of a plant by small usually migratory birds, but may include upland game birds. The waterfowl icon may include shorebirds and wading birds along with ducks and geese. The hummingbird icon has been indicated separately because many people are interested specifically in attracting them. The butterfly icon may refer to the adults or to the larval stage that uses the plant as a host. The beneficial insect icon, besides butterflies, includes ladybugs, bees (essential pollinators) and other insects that serve as a pest control or other desirable role. The small mammal icon is noted for plants used by any of a variety of small animals, such as raccoons, opossums, foxes, etc., depending upon location and surrounding habitat.

Absent but not forgotten: Certain wildlife species are not represented, due in part to a lack of available information for every plant related to all types of animals. However, these are all likely to inhabit or occasionally visit a native plant garden or habitat planting, and their importance in the web of life should not be underestimated. Many insects have not been represented here, though they certainly use a wide variety of plants throughout their life cycles and are an integral part of the ecosystems we're trying to protect, conserve and enhance. Reptiles and amphibians, particularly salamanders, frogs and turtles, inhabit our yards as well as natural areas. They use plants for food and cover, and especially need water sources such as lakes, ponds, streams, puddles or even a small dish of water (aerated or changed daily to prevent mosquito breeding). Bats provide a valuable service as insect pest controllers and pollinators.

Notes

This catchall includes pertinent information that bears emphasizing or is not reflected in the other categories. It may include additional notes or clarification about the plant's characteristics, growth, and spread; tips or suggestions on cultivation; cultivars; or general use of the plant.

By providing these characteristics for each plant species we hope to provide you with a variety of choices to meet the conditions of your property as well as your personal preferences. Whether you are replacing a few individual plants, designing a new bed or planning for an entirely new look, this guide can help narrow the choices to plants most likely to thrive in your environment and create the landscape you desire.



Songbird



Waterfowl



Hummingbird



Butterfly



Beneficial insect

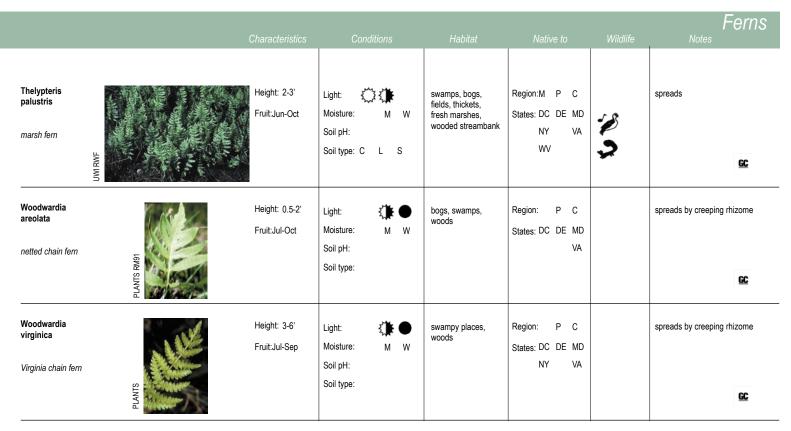


Small mammal

Providing the basic habitat structures described earlier and planting a diversity of plants (and therefore food sources) will bring a surprising and beneficial array of life to your property.

		Characteristics	Conditions	Habitat	Native to	Wildlife	Ferns
Adiantum pedatum northern maidenhair fern	UWIMC	Height: 1-2' Fruit:	Light: Moisture: M Soil pH: 4.5-6.5 Soil type: L S O	moist woods, rocky shaded habitats	Region:M P C States: DC MD NY PA VA WV		grows in clumps; delicate texture; herbal uses
Asplenium platyneuron ebony spleenwort	RHW	Height: 0.5-1.5' Fruit:May-Sep	Light: M Moisture: M Soil pH: 4.5-7 Soil type: C L S	banks, open woods and thickets, slopes, rocky ledges, swamps	Region:M P C States: DC MD NY VA WV		easily transplanted; only moderate care needed; evergreen
Athyrium filix-femina northern lady fern	DWIKAS	Height: 1-3' Fruit:	Light: Moisture: M W Soil pH: Soil type: L S	woods, banks, wooded hillsides, sandy bogs	Region:M P C States: DC DE NY WV		varieties occur throughout region; in MD, VA can also use subspecies asplenioides (southern lady fern)
Botrychium virginianum rattlesnake fern	RHW	Height: 1-2' Fruit:	Light: The Moisture: D M Soil pH: 5.6-6.9 Soil type: L O	rich, woods	Region:M P C States: DC DE MD NY VA WV		GC
Dennstaedtia punctilobula hay-scented fern	UWI RWF	Height: 1-3' Fruit:Jul-Oct	Light: Moisture: D M Soil pH: Soil type: L	open woods and fields	Region:M P C States: DC MD NY VA WV		can spread over large areas of open understory or pasture
Dryopteris carthusiana (D. spinulosa) toothed or spinulose woodfern	UWI RWF	Height: 1-2.5' Fruit:Jun-Aug	Light: M W Soil pH: 5-6 Soil type: L O	low woods, thickets, swamps, rich woods, rocky slopes	Region:M P States: DC DE MD NY PA VA WV		forms colonies; semi- evergreen
Oryopteris cristata crested wood or shield fern, narrow swamp fern	DIVIN RWF	Height: 1.5-2.5' Fruit:Jun-Sep	Light: M W Soil pH: 3.5-6.5 Soil type: C L	shallow emergent marshes, shrub swamps, wooded swamps, open shrubby wetlands	Region:M P C States: DC DE MD NY PA VA WV		small rosette fronds
Dryopteris intermedia evergreen wood- fern	UWIEJJ	Height: 2.5' Fruit:	Light:	rich, moist to dry woods	Region:M P C States: DC DE NY PA VA WV		clump-former; not common on coastal plain; hybridizes with eight species

Ferns		Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
yopteris arginalis arginal or ergreen shield m, evergreen ood fern	UWI RWF	Height: 1-3' Fruit:Jun-Oct	Light: Moisture: D M Soil pH: Soil type: C L S	moist woods, clearings	Region:M P C States: DC DE MD NY PA VA WV		clump-former; attractive; easily transplanted
noclea sensibilis	UWI KAS	Height: 1-3.5' Fruit:Jun-Oct	Light: M W Soil pH: Soil type: C L S	fresh tidal and nontidal marshes, meadows, swamps, woods	Region:M P C States: DC DE MD NY PA VA WV	2	spreads in wet areas; fertile fronds dark brown, erect
smunda nnamomea nnamon fern	RHW, UWI TK	Height: 2-5' Fruit:Apr-May	Light: M W Soil pH: 4.5-7 Soil type: C L	woods, marshes, swamps, bogs, streamsides	Region:M P C States: DC DE MD NY PA VA WV	7	tolerates drought; fertile fronds reddish brown, wooly
smunda aytoniana terrupted fern	UWIEJU	Height: 1-4' Fruit:	Light: Moisture: M Soil pH: 4-6 Soil type: C L	fields, forest and swamp edges	Region:M P States: DC DE MD PA VA WV		grows in clumps
smunda regalis yal fern	UWIEJJ	Height: 1.5-6' Fruit:Apr-Jun	Light: M W Moisture: M W Soil pH: 4-6 Soil type: C L S	fresh tidal and nontidal marshes and swamps, woods, irregularly, seasonally, or permanently saturated (up to 100% of growing season)	Region:M P C States: DC DE MD NY PA VA WV	ې	tolerates full sun if moist; tolerates drought; tolerates irregular, seasonal or permanent saturation; only tolerates flooding for a few days
olystichum crostichoides hristmas fern	USFWS BES	Height: 0.5-2' Fruit:Jun-Oct	Light: Moisture: M Soil pH: 4.5-7 Soil type: L S	woods, thickets, rocky slopes	Region:M P C States: DC DE MD NY PA VA WV		grows in clumps; easily grown in rock gardens and shaded places; impartial to soil type
eridium acken fern	OM NROS	Height: 1.5-6' Fruit:	Light:	dry pine woods, swamps, marshes, fields, waste places	Region:M P C States: DC DE MD NY PA VA WV	*	forms large colonies; host for several ant types
nelypteris oveboracensis ew York fern	USFWS BES	Height: 1-2.5' Fruit:Jun-Sep	Light: M W Soil pH: 4-7 Soil type: C L S	forested wetlands, dry to damp woods, thickets	Region:M P C States: DC DE MD NY VA WV	2	tolerates drought; easily transplanted; forms large colonies; spreads easily











Osmunda cinnamomea

New fern fiddleheads emerging.

	& Grasslike Plan	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
rennans tumn bentgrass	PLANTS RM95	Height: 1-3' Flowers:Jun-Oct	Light: Moisture: D M W Soil pH: 5.5-7.5 Soil type: C L	dry or moist thickets, open woods	Region:M P C States: DC DE PA VA WV		
nmophila eviligulata negrass, nerican achgrass	UWI RRK	Height: 1.5-3.5' Flowers:Jul-Sep	Light: \$\frac{1}{2}\$ Moisture: D Soil pH: 5.8-7.8 Soil type: L S	maritime beaches, dunes, grasslands, shrublands	Region: C States: VA	*	prefers well-drained, sandy sites; spreads rapidly by rhizomes
dropogon rardii bluestem	RHW	Height: 2-6.5' Flowers: Jun-Sep	Light: Moisture: D M W Soil pH: 6-7.5 Soil type: C L S	dry or wet open woods, prairies, swales, shores; dry open areas	Region:M P States: DC DE NY PA VA WV		clump forming; attractive, with winter interest
dropogon omeratus virginicus r. abbreviatus) shy bluestem	PLANTS	Height: 1.5-5' Flowers:Aug-Oct, reddish brown	Light: M W Soil pH: 5-6.3 Soil type: C L S	fresh marshes, coastal areas	Region:M P C States: DC DE VA WV	**	tolerates drought; grows in tufts; reddish fall color
dropogon ginicus omsedge	PLANTS JS	Height: 1-3' Flowers:Aug-Nov, reddish brown	Light: Moisture: D M W Soil pH: 4.9-7 Soil type: C L S	wet meadows, transition areas	Region:M P C States: DC DE MD NY VA WV	2	wildlife food and cover; tolerates drought; grows in tufts; reddish-tan fall color
lamagrostis nadensis ejoint reedgrass	PLANTS 1995	Height: 1.5-5' Flowers:Jun-Aug	Light: M W Soil pH: 4.5-8 Soil type: C L	meadows, bogs, thickets	Region:M States: DC DE NY VA WV		
rex crinita r. crinita ng hair sedge	RHW	Height: 1-5' Flowers:Jun-Aug	Light: M W Soil pH: 4-7.5 Soil type: C L	swales, thickets, low woods	Region:M P C States: DC DE NY VA WV	3 3	
rex glaucodea le wood dhyAN dhyAN		Height: 0.5-2' Flowers:May-Jul, brown to reddish	Light:	moist to dry woods and fields	Region: P C States: DC DE MD VA		clump-forming; alternative to Liriope

	Characteristics	Conditions	Habitat	Grasses & Gr	rasslike Plants
Carex lurida sallow sedge, lurid sedge	Height: 1-3.5' Flowers:Jun-Oct	Light: W Moisture: W Soil pH: 4.9-6.8 Soil type: C L S	swales, swamps, woods	Region:M P C States: DC DE NY PA VA WV	wetland plant; interesting seeds
Carex pensylvanica Pennsylvania sedge	Height: 0.5-1.5' Flowers:Apr-Jul, reddish to white	Light: Moisture: D M Soil pH: Soil type: S	open, dry, sandy or rocky woods, wooded slopes	Region: P C States: DC DE MD NY PA VA WV	alternative to lawn; plant densely; fine textured leaves less than 6 inches
Carex stricta tussock sedge	Height: 1-3.5' Flowers:May-Aug, reddish to purple brown	Light: M W Soil pH: 3.5-7 Soil type: C L S	fresh tidal and nontidal marshes, shrub swamps, forested wetlands, swales, fields	Region:M P C States: DC DE MD NY VA WV	grows in clumps; partly persists in winter; tolerates flooding to 6 inches
Carex vulpinoidea fox sedge	Height: 0.5-3.5' Flowers:Jun-Aug	Light: W Moisture: W Soil pH: 6.8-8.9 Soil type: C L	shallow emergent marshes, shrub swamps, floodplain forests, hardwood swamps	Region:M P C States: NY VA WV high wildlife value	grows in clumps; tolerates saturation and flooding to 6 inches
Chasmanthium latifolium wild oats, river oats, sea oats, spanglegrass Washington to the control of the contro	Height: 2-5' Flowers:Jul-Sep, green then tan	Light: Moisture: D M Soil pH: 5-7 Soil type: C L S	streambanks, alluvial woods	Region:M P C States: DC DE MD VA WV	
Danthonia spicata poverty oatgrass, poverty grass	Height: 0.5-2' Flowers:May-Jul	Light:	open woods, pastures, meadows	Region:M P C States: DC DE NY PA VA WV	Œ
Dichanthelium clandestinum deer-tongue	Height: 2-5' Flowers:May-Oct	Light: D M W Soil pH: 4-7.5 Soil type: C L S	moist woods, roadsides	Region:M P C States: DC DE NY PA VA WV	
Dichanthelium commutatum variable panicgrass	Height: 1-2.5' Flowers:May-Oct	Light: Moisture: D M Soil pH: 4-6.5 Soil type: L S	rocky or sandy woods	Region:M P C States: DC DE NY PA VA WV	

		Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
ymus nadensis nada wild rye	CM NRCS	Height: 2-6.5' Flowers:Jun-Oct	Light: Moisture: D M Soil pH: 5-7.9 Soil type: C L S	dry, sandy, gravely, or rocky soil	Region:M P C States: DC MD VA WV		
mus hystrix istrix patula) tlebrush grass	RHW	Height: 2-4' Flowers:Jun-Aug	Light: Moisture: M Soil pH: Soil type: L	alluvial woods	Region:M P C States: DC DE MD NY PA VA WV		
mus riparius orbank wild-rye	UMEJU	Height: 0.5-5' Flowers:Jul-Sep	Light: Moisture: D M W Soil pH: 4.5-7.2 Soil type: C L S O	rich thickets, streamsides, alluvial flats, meadows	Region: P C States: DE PA VA WV		good for streambank conditions
mus ginicus ginia wild rye		Height: 1-5.5' Flowers:Jun-Oct	Light: Moisture: D M Soil pH: 5-7 Soil type: C L S O	rich thickets, shores, meadows	Region:M P C States: DC DE MD PA VA WV		tolerates a wide range of conditions; forms clumps
fescue		Height: 0.5-3' Flowers:May-Jul	Light: M W Soil pH: 5-8 Soil type: C L	dry woods, roadsides, waste areas	Region:M States: DC DE MD VA	*	can be used as turf grass; grows best in part shade
rsia oryzoides cutgrass	PLANTS 1995	Height: 5' Flowers:Jun-Oct	Light: M W Soil pH: 5.1-8.8 Soil type: C L S	fresh tidal and nontidal marshes, meadows, ditches, muddy shores	Region:M P C States: DC DE NY PA VA WV	3 \$	good for sediment stabilization, erosion contr tolerates drought; tolerates flooding to 6 inches
icum amarum er or coastal ic grass, chgrass	CMNRCS	Height: 1-3' Flowers:Aug-Oct	Light: D M Soil pH: 5-7.5 Soil type: L S	sandy coastal shores and dunes	Region: C States: DC DE MD VA	73 2	prostrate form, produces little viable seed, use transplants; Panicum amarum var. amarulum (coastal panicgrass), taller form, can be seeded.
lichgrass		Height: 3-6' Flowers:Jul-Oct	Light: D M W Soil pH: 4.5-8 Soil type: C L S	fresh and brackish tidal and nontidal marshes, wet meadows, open woods, prairies, dunes	Region:M P C States: DC DE MD NY PA VA WV	18 J	food for sparrow species; grows in clumps; controls erosion

Grasses & Grasslike Plants Characteristics Habitat Saccharum giganteum (Erianthus giganteus) Height: 3.5-10' Region: swamps, low woods, Light: swales Flowers: Aug-Oct Moisture: States: DC DE giant plumegrass, Soil pH: 3.5-7 VA sugar cane L S Soil type: Schizachyrium Height: 1.5-4' Region:M P C tolerates poor soil; clump open woods, Light: scoparium JSFWS BES pinelands, clearings grass; winter interest and (Andropogon Flowers:Aug-Oct Moisture: States: DC DE MD wildlife cover; excellent scoparius) forage grass Soil pH: NY PA VA little bluestem Soil type: WV L S Sorghastrum Height: 2.5-8' dry slopes, prairies, Region:M P C tall clump grass with Light: nutans borders of woods beautiful seed head; Flowers: Aug-Sep Moisture: States: DC DE MD nutritious for livestock NY PA VA Indiangrass Soil pH: 4.8-8 WV Soil type: C L S Tridens flavus Height: 2-6.5' dry fields, roadsides, Region:M P Light: openings, forest Flowers:Aug-Oct Moisture: States: DC DE redtop, purpletop Soil pH: 4.5-6.5 VA Soil type: C L S WV Tripsacum Height: 6-10' swales, fields, forest Region:M P excellent forage grass; often Light: dactyloides edges, shores grows wild near corn fields; Flowers: Jun-Oct Moisture: М W States: DC DE MD can hybridize with corn gama grass Soil pH: 5.7-7.5 Soil type: C L \/\/

See also:

In the Herbaceous Plants section:

Allium cernuum

Liatris pilosa v. pilosa (graminifolia), scariosa, spicata, squarrosa Sisyrinchium angustifolium (graminoides), atlanticum

In the Herbaceous Emergents section:

Distichlis spicata

Dulichium arundinaceum Iris prismatica, versicolor, virginica

Juncus canadensis, effusus

Schoenoplectus pungens v. pungens (Scirpus pungens, americanus), validus (Scirpus validus)

Scirpus atrovirens, cyperinus

Sparganium americanum

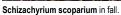
Spartina alterniflora, cynosuroides, patens, pectinata

Zizania aquatica









Andropogon virginicus

the road and woods.

provides a transition between





Characteristic swirls of Carex stricta.

пеграс	ceous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
ttaea pachypod Il's eyes	RHW, RHW	Height: 1-3' Flowers:Apr-Jun, whitish Fruit:Jul-Oct, white or red, berry	Light: Moisture: M Soil pH: Soil type: C L S	rich open woods, thickets	Region: C States: DE NY PA VA WV		interesting berries; infrequent in Piedmont and mountain regions
alinis purpurea rple false rglove		Height: 1-4' Flowers:Jul-Sep, rose- purple, white Fruit: capsule	Light: Moisture: M W Soil pH: Soil type: S	moist fields, rocky shores, serpentine barrens	Region: P C States: DC DE MD NY VA WV		
eratina issima r. altissima upatorium gosum) ite snakeroot	UMI KAS, USPWS BES	Height: 1-5' Flowers:Jul-Oct, white Fruit:capsule	Light: D M Soil pH: Soil type: C L S	rich woods, thickets, clearings, meadows	Region:M P C States: DC DE MD NY PA VA WV	To the state of th	tough plant; cultivars available; prefers basic soils
ium cernuum dding onion	RHW SHW	Height: 0.5-2.5' Flowers:Jun-Aug, pink, rose, white Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L S	ledges, gravels, rocky or wooded slopes	Region:M States: DC MD VA WV		
emone nadensis and-leaved Canadian emone, nbleweed	RHW	Height: 0.5-3' Flowers:May-Jul, white Fruit:	Light: Moisture: M Soil pH: Soil type: C L	damp thickets, meadows, gravelly shores	Region: P States: DC NY VA		
emone giniana nbleweed, tall mone	RHW	Height: 1-2.5' Flowers:May-Aug, whitish Fruit:	Light: Moisture: D M Soil pH: Soil type: C L S	dry rocky open woods, slopes, thickets	Region:M P States: DC DE MD NY PA VA WV		
tennaria glecta d pussyloes	UMI JRS	Height: 0.5-1.5' Flowers:Apr-Jul, white Fruit:	Light: D M Soil pH: 5.5-7.5 Soil type: C L	upland meadows, pastures, open woods	Region:M P States: DC DE MD NY PA VA WV	er e	
uilegia nadensis stern or wild umbine	RHW, USFWS BES	Height: 0.5-3' Flowers:Apr-Jul, red- yellow Fruit: capsule	Light: D M Soil pH: Soil type: L	rich rocky woods, slopes, cliffs, ledges, pastures, roadside banks	Region:M P C States: DC DE MD NY PA VA WV	***	commonly cultivated; spreads by seed

		Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
Aralia nudicaulis wild sarsaparilla	RHW	Height: 0.5-1.5' Flowers:May-Jul, white or green Fruit: May-Jul, purple-black, berry	Light: D M Soil pH: 5-7.2 Soil type: C L S	dry to moist woods	Region:M P C States: DC DE MD NY PA VA WV		aromatic; single-leaved; lacks an above-ground stem; not common in coastal plain
Aralia racemosa spikenard	KHW, KHW	Height: 1.5-6.5' Flowers: Jun-Aug, greenish-white Fruit: dark purple, berry	Light: Moisture: M Soil pH: Soil type: C L S	rich woods, thickets, wooded slopes and edges	Region:M P C States: DC DE MD PA VA WV		not common in coastal plain
	USINS RES. RHW	Height: 1-3' Flowers:Mar-Jun, striped, purple or green Fruit:berry	Light: M W Soil pH: 4.8-7 Soil type: L S	woods, bogs swamps	Region:M P C States: DC DE MD NY PA VA WV	<i>*</i>	red berry clusters appear late summer to fall; unusual flower; spreads rapidly from seed
Aruncus dioicus goat's-beard	USFWS BES	Height: 3.5-6.5' Flowers:May-Jul, white Fruit:pod	Light: M W Soil pH: Soil type: C L S	wooded roadsides, rich woods, ravines	Region:M States: DC VA WV		
Asarum canadense wild ginger	SER SERVICE OF THE PROPERTY OF	Height: 0.5' Flowers: Apr-May, brownish-purple Fruit: brown, capsule	Light: Moisture: M Soil pH: Soil type: C L S	rich woods	Region:M P C States: DC DE MD NY PA VA WV		flower inconspicuous; attractive leaves; will spread; semi-evergreen
Asclepias incarnata swamp milkweed	USFWS RL	Height: 4-6' Flowers:May-Jun, pink to reddish Fruit:Aug-Nov, pod	Light: M W Soil pH: 5-8 Soil type: C L	fresh tidal and nontidal marshes, meadows, shrub swamps, woods, shores, ditches	Region:M P C States: DC DE MD NY PA VA WV	3	can tolerate drought; interesting seed pod
Asclepias syriaca common milkweed	RHW, RHW	Height: 3.5-6.5' Flowers:May-Aug, pale purple Fruit:Aug-Nov, pod	Light: Light: Moisture: D Soil pH: Soil type: L S	thickets, roadsides, fields	Region:M P C States: DC DE MD NY PA VA WV	₹	interesting seed pods; fragrant flower
Asclepias tuberosa butterflyweed, butterfly milkweed, butterfly flower	USFWS RL, USFWS BES	Height: 1-3' Flowers:May-Jul, orange Fruit:Aug-Nov, pod	Light: Moisture: D M Soil pH: 4.8-6.8 Soil type: L S	dry fields, roadsides, shale barrens	Region:M P C States: DC DE MD NY PA VA WV	₹	taproot does not transplant well but seedlings do; attractive seed pod

Herbaceous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
raptisia australis vild blue indigo, alse blue indigo Salas	Height: 3-5' Flowers:May-Jun, blue, purple Fruit:	Light: Moisture: D M Soil pH: Soil type: S	open woods, alluvial thickets, streambanks, floodplains	Region:M P States: DC MD VA WV	₹	tolerates poor soils; flowers very showy; shrublike form
aptisia tinctoria ellow wild indigo	Height: 1-3' Flowers:May-Sep, yellow Fruit:	Light: D Moisture: D Soil pH: 5.8-7 Soil type: L S	open woods, clearings	Region:M P C States: DC DE MD PA VA WV		tolerates poor soils
odding beggar-cks, nodding bur narigold	Height: 0.5-3' Flowers:Aug-Oct, yellow Fruit:	Light: D M Soil pH: 5.1-7 Soil type: C L S	tidal marsh, sloughs, springs, pools, shore	Region:M P C States: DC DE MD NY PA VA WV	%	
toltonia steroides tar boltonia, white oll's daisy	Height: 0.5-2.5' Flowers:Jul-Sep, white Fruit:	Light: D M W Soil pH: 5.3-7 Soil type: L S	gravelly shores, sandy thickets	Region: C States: DC DE VA WV		
Raltha palustris narsh marigold	Height: 1-2' Flowers:Apr-Jun, bright yellow Fruit:	Light: W Moisture: W Soil pH: 4.9-6.8 Soil type: C L	forested wetlands, shrub swamps, streambanks, seeps, meadows	Region:M C States: DC DE MD NY VA WV	**	clump-forming; needs some periods of drier soil; tolerates flooding to 6 inches
ampanulastrum mericanum Campanula mericana) merican or tall ellflower	Height: 1.5-6.5' Flowers:Jun-Aug, light blue Fruit:capsule	Light: Moisture: M Soil pH: 5.5-7.5 Soil type: C L S	rich moist woods, rocky wooded slopes, streambanks	Region:M P States: DC MD NY VA WV		
ardamine oncatenata Dentaria aciniata) pothwort	Height: 1-1.5' Flowers:Apr-Jun, white, purplish Fruit:	Light: Moisture: Moisture: Soil pH: Soil type: L S	rich woods, wooded bottoms, calcareous rocky banks	Region:M P States: DC DE MD NY VA WV		
aulophyllum nalictroides	Height: 1-2.5' Flowers:Apr-Jun, green- yellow, green-purple Fruit:dark blue, berry	Light: Moisture: M Soil pH: 4.5-7 Soil type: L	rich woods	Region:M P C States: DC DE MD NY PA VA WV		

	Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
Chamaecrista fasciculata (Cassia fasciculata) partridge pea, prairie senna	Height: 0.5-3' Flowers:Jul-Sep, yellow Fruit:pod	Light: Moisture: D Soil pH: Soil type: S	upland meadows, fields, streambanks	Region:M P C States: DC DE MD PA VA WV	3	pods coil after split open; spreads
Chamerion angustifolium spp. angustifolium (Epilobium angustifolium) GWL	Height: 3-10' Flowers: Jun-Sep, magenta, pink, rarely white Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: C L S	recent clearings, burned woodlands, damp ravines, open sandy areas	Region:M States: DC DE MD PA VA WV		
Chelone glabra white turtlehead, turtlehead	Height: 1.5-6.5' Flowers: Jul-Oct, white Fruit: capsule	Light: Moisture: M W Soil pH: Soil type: C L S	woods, streambanks, swamps, thickets	Region:M P C States: DC DE MD NY PA VA WV	&	strong grower; herbal uses; host for Baltimore checkerspot butterfly
Chimaphila maculata striped wintergreen, striped prince's pine	Height: 0.5' Flowers:Jun-Aug, white Fruit:capsule	Light: Moisture: D Soil pH: Soil type: C L S	acidic woods, frequently under pines	Region:M P C States: DC MD NY PA VA WV		flowers fragrant
Chrysogonum virginianum green-and-gold, golden knees	Height: 0.5-1' Flowers:Mar-Jun, yellow Fruit:	Light: D M Soil pH: Soil type: L	open woods on limestone, rocky open woods	Region:M P C States: DC MD VA WV		will bloom longer if kept moist
Chrysopsis mariana golden aster, Maryland golden aster	Height: 0.5-2.5' Flowers: Jul-Oct, yellow Fruit:	Light: D Moisture: D Soil pH: Soil type: S	woods, openings, roadsides, serpentine barrens	Region: P C States: DC DE MD VA		Œ
Cimicifuga racemosa black snakeroot, black cohosh, fairy candles	Height: 2.5-8.5' Flowers:Jun-Sep, white Fruit:pod	Light: Moisture: M Soil pH: Soil type: C L S	rich woods, wooded slopes, ravines, thickets	Region:M P C States: DC DE MD NY PA VA WV	₹	
Claytonia virginica narrowleaf spring beauty, spring beauty	Height: 0.5-1' Flowers:Mar-May, white with pink Fruit: capsule	Light: Moisture: M Soil pH: Soil type: L	rich woods, thickets, clearings	Region:M P C States: DC DE MD NY PA VA WV		

Herbaceous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
toria mariana aryland butterfly a	Height: 6' Flowers:Jun-Sep, pale blue or pinkish Fruit:pod	Light: D Soil pH: Soil type: S	open areas	Region:M P C States: DC DE VA WV	*\$	vine-like
noclinium elestinum ipatorium elestinum) etflower, wild eratum	Height: 1-3.5' Flowers: Jul-Oct, blue, violet or purple Fruit: capsule	Light:	old fields, meadows; dry sandy woods and clearings, damp thickets, streambanks	Region: C States: DC DE VA WV	₹	
reopsis tripteris coreopsis, tall seed **Example 1.5	Height: 3.5-10' Flowers:May-Sep, yellow Fruit:capsule	Light: The Moisture: D M Soil pH: Soil type: L S	thickets, old fields, forest edges, roadsides	Region:M P C States: DC VA WV	*	flower has anise scent
reopsis rticillata eadleaf eopsis S38 S48 S9	Height: 0.5-3.5' Flowers: Jun-Oct, yellow Fruit: capsule	Light: D M Soil pH: Soil type: L	dry open woods, clearings, roadsides	Region: P States: DC MD VA WV		GC
lphinium corne arf larkspur	Height: 0.5-3' Flowers:Apr-Jun, blue, violet, white, variegated Fruit:pod	Light: Moisture: M Soil pH: Soil type:	rich woods, calcareous slopes, thickets, river bluffs	Region:M P States: DC VA WV		
smodium niculatum nicled or narrow- f tick-trefoil	Height: 1-3.5' Flowers:Jul-Sep, purplish or green Fruit:pod	Light: D Soil pH: 6-7 Soil type: C L	clearings, edges of moist or dry woods	Region:M P C States: DC DE MD NY VA WV	100	not found near coast
eentra nadensis nirrel corn	Height: 0.5-1' Flowers:Apr-May, greenish-white, rose tinge Fruit: capsule	Light: Moisture: M Soil pH: Soil type: L	rich woods	Region:M P States: DC MD NY PA VA WV		flowers hyacinth scented
centra cullaria tchman's eches	Height: 0.5-1' Flowers:Apr-Jun, white to cream Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L S	rich woods	Region:M P States: DC DE MD NY PA VA WV		leaves basal; dormant in summer

	Characteristics	Conditions	Habitat	Native to	Herbaceous Plants
Dicentra eximia wild bleeding heart	Height: 1.5-2' Flowers:Apr-Sep, pink/white Fruit:capsule	Light: Moisture: D M Soil pH: Soil type: L	rocky woods and cliffs, rich woods	Region:M P States: DC MD VA WV	sometimes cultivated
Dodecatheon meadia shooting star	Height: 0.5-2' Flowers:Apr-Jun, white with yellow, lilac Fruit: capsule	Light: Moisture: M Soil pH: Soil type: L S	open woods, meadows, slopes, prairies	Region:M States: DC MD VA WV	
Doellingeria umbellata var. umbellata (Aster umbellatus) flat-top white aster, parasol whitetop	Height: 1-7.5' Flowers:Aug-Oct, white Fruit:	Light: Moisture: M W Soil pH: Soil type: L S	open areas, woods	Region:M P States: DC DE MD NY PA VA WV	2 5
Erigeron pulchellus robin's plantain	Height: 0.5-1.5' Flowers:Apr-Sep, blue, pink, white Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: L S	open woods, meadows, wooded slopes, roadsides	Region:M P C States: DC DE MD NY PA VA WV	<u>GC</u>
Erythronium americanum trout lily, yellow trout lily, dogtooth violet	Height: 0.5-1' Flowers:Mar-Jun, yellow Fruit:capsule	Light: Moisture: M W Soil pH: Soil type: L S	woods, rich slopes, bottomlands, meadows	Region:M P States: DC DE MD NY PA VA WV	
Eupatorium dubium Joe-Pye weed	Height: 2-5' Flowers:Jul-Oct, purple, rarely white Fruit:capsule	Light: Moisture: M W Soil pH: Soil type: S	swamps, bogs, marshes, swales	Region:M P C States: DC DE MD VA	***
Eupatorium fistulosum Joe-Pye weed, trumpet weed	Height: 1.5-10' Flowers:Jul-Oct, pink- purple Fruit:capsule	Light: D M W Soil pH: 4.5-7 Soil type: C L	floodplains, meadows, thickets, roadsides	Region:M P C States: DC DE MD NY PA VA WV	herbal uses
Eupatorium hyssopifolium hyssop-leaved thoroughwort, hyssop-leaved eupatorium	Height: 1-4.5' Flowers:Jul-Oct, white Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: S	dry fields, roadsides, railroad right of ways, woods, fields, salt meadows	Region: C States: DC DE MD VA	₹

Herbaceous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
upatorium aculatum notted Joe-Pye eed	Height: 2-6.5' Flowers: Jul-Sep, purple to pale lavender Fruit: capsule	Light: Moisture: M Soil pH: 5.5-7 Soil type: C L	floodplains, swamps, alluvial thickets, grasslands	Region:M P States: DC NY WV		
upatorium erfoliatum ommon boneset	Height: 1-5' Flowers: Jul-Oct, white Fruit: capsule	Light: M W Soil pH: Soil type: C L S	floodplains, swamps, bogs, streambanks, meadows	Region:M P C States: DC DE MD NY PA VA WV		
upatorium urpureum een-stemmed ee-Pye weed	Height: 2-6.5' Flowers: Jul-Oct, pink, purple, cream Fruit: capsule	Light: D M Soil pH: Soil type: C L S	open woods, fields, floodplains	Region:M P C States: DC DE MD NY PA VA WV		occurs in drier, shadier habitats than other joe- pye-weeds; injured or driec plant has vanilla scent
Arybia divaricata ster divaricatus) Alite wood aster Samuel Sam	Height: 0.5-3' Flowers:Jul-Oct, white Fruit:	Light: Moisture: D M Soil pH: Soil type:	dry woods, clearings	Region:M P States: DC DE MD NY PA VA WV		<u>sc</u>
entiana clausa osed gentian, tttle gentian	Height: 1-3.5' Flowers:Aug-Oct, blue Fruit:capsule	Light: M W Soil pH: 5.8-7.2 Soil type: L	moist open woods, streambanks, meadows	Region:M P C States: DC MD PA VA WV		
eranium aculatum Id geranium, aod geranium	Height: 1-2' Flowers:Apr-Jul, lavender or pink Fruit:capsule	Light: D M Soil pH: Soil type: L	woods, roadsides, fields	Region:M P C States: DC DE MD NY PA VA WV		adaptable plant; long bloor time; spreader; herbal use: explosive seed capsule
oodyera bescens wny rattlesnake untain	Height: 0.5-1.5' Flowers:Jun-Aug, whitish Fruit:	Light: Moisture: D M Soil pH: Soil type: C L S	dry to moist woods	Region:M P C States: DC DE MD NY VA WV		very handsome throughout winter
elenium tumnale Ilow or common eezeweed \$388 888	Height: 1.5-6' Flowers:Jul-Nov, yellow Fruit:capsule	Light: Moisture: M Soil pH: 4-7.5 Soil type: C L S	woods, swamps, riverbanks, alluvial thickets, meadows, marshes, ditches	Region:M P C States: DC DE MD NY PA VA WV		tolerates wet areas; showy flowers; herbal uses

		Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
lelianthus ngustifolius wamp sunflower	WHW ***	Height: 1.5-5.5' Flowers:Aug-Oct, yellow Fruit:capsule	Light: M W Soil pH: 4-7 Soil type: L S	swamps, moist, sandy areas	Region: C States: DC DE MD VA		
lelianthus ecapetalus en-petaled or thin- eaved sunflower	P5	Height: 1.5-5' Flowers: Jul-Oct, yellow Fruit: capsule	Light: M Moisture: M Soil pH: Soil type: S	fields, bottomlands, stream banks, roadsides	Region:M P C States: DC DE NY PA VA WV	St.	
elianthus ivaricatus oodland unflower, rough unflower	RHW	Height: 1.5-6.5' Flowers:Jul-Sep, yellow Fruit:capsule	Light: Moisture: D M Soil pH: Soil type: S	dry open woods, wooded slopes, shale barrens, roadsides	Region:M P C States: DC DE MD NY PA VA WV	S. J.	
eliopsis elianthoides xeye sunflower, xeye	RHW	Height: 1-5' Flowers:Jun-Sep, pale yellow Fruit:capsule	Light: Moisture: D M Soil pH: 5.6-6.8 Soil type: L S	fields, open woods, floodplains, thickets, streambanks	Region: P C States: DC DE MD PA VA WV	企 类	long bloom time
epatica nobilis ar. acuta I. acutiloba) narp-lobed epatica	UMI KIS, UMI KIS, UMI JRS	Height: 0.5-2' Flowers:Mar-Jun, bluish, white, pink Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: L S	rich upland woods, rocky slopes	Region:M States: NY PA VA		may bloom throughout yea (rarely)
epatica nobilis ar. obtusa I. americana) uund-lobed epatica, liverleaf	RHW	Height: 0.5-2' Flowers:Mar-Jun, white to lavender Fruit:capsule	Light: Moisture: D M Soil pH: Soil type: L S	dry or rocky woods, dry upland slopes	Region:M P C States: DC DE MD NY PA VA WV		Œ
eracleum aximum . lanatum) w parsnip	RHW	Height: 3.5-10' Flowers:May-Aug, white to pink Fruit:	Light: M W Soil pH: 5.4-7.3 Soil type: C L S	rich woods, wooded roadside banks, marshy flats, streambanks, ditches	Region:M P C States: DC DE MD NY PA VA WV		can cause a dermatitis (skin) reaction
euchera nericana umroot	MOBOT	Height: 1-3.5' Flowers:Apr-Jun, green, white, pink, purple Fruit:capsule	Light: Moisture: D M Soil pH: Soil type: L S	rich woods, rocky slopes, shale cliffs	Region:M P States: DC DE MD NY PA VA WV		long bloom time; many cultivars and hybrids; semi evergreen

Herbace	eous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Heuchera villosa hairy heuchera, hairy alumroot	PLANTS JSP	Height: 1-2.5' Flowers: Jun-Oct, white to greenish to pinkish Fruit: capsule	Light: Moisture: D M Soil pH: Soil type:	damp rocks, rich wooded slopes	Region:M States: DC MD VA		GC
Houstonia caerulea bluet, innocence, Quaker-ladies	RHW	Height: 0.5-1' Flowers:Apr-Jun, blue, lilac, white Fruit:capsule	Light: Moisture: M Soil pH: Soil type:	meadows, fields, and thickets, open woods, forest edges	Region:M P C States: DC DE MD VA WV		
Hydrophyllum virginianum Virginia waterleaf	MAR.	Height: 1-2.5' Flowers:May-Aug, lavender, white Fruit:capsule	Light: M Moisture: M Soil pH: Soil type: C L S	woods, thickets, streambanks	Region:M P C States: DC DE MD NY PA VA WV		
Hylotelephium telephioides (Sedum telephioides) Allegheny stonecrop	RHW	Height: 0.5-1.5' Flowers:Aug-Sep, pale pink Fruit:pod	Light: Moisture: Soil pH: Soil type:	dry rocky places	Region:M States: DC MD NY VA WV		naturally occurs in bare rock outcrops, but does well in garden; rare in PA, threatened in NY
Impatiens capensis (I. biflora) jewelweed, touch- me-not	USFWS BES	Height: 1.5-5' Flowers:May-Oct, orange, yellow, white Fruit:capsule	Light: Moisture: M W Soil pH: 5.4-7.4 Soil type: C L S	moist meadows, swamps, streambanks, open woods	Region:M P C States: DC DE MD NY PA VA WV	なで発	ripe seed pod explodes with contact; remedy for poison ivy itching
lonactis linariifolius (Aster linariifolius) stiff-leaf aster, flaxleaf whitetop aster	RHW	Height: 0.5-2' Flowers:Aug-Oct, blue, yellow eye Fruit:	Light: D M Soil pH: Soil type: S	grasslands, successional shrublands, oak- hickory forest, dry rocky woods and edges	Region:M P C States: DC DE MD NY VA WV		
Jeffersonia diphylla twinleaf	RHW	Height: 0.5-1' Flowers:Apr-May, white Fruit:capsule	Light:	rich woods	Region:M P States: DC MD VA WV		
Lespedeza capitata round-head bush clover	UWIKJS	Height: 2-6' Flowers: Jul-Sep, yellowish white Fruit:	Light: D Moisture: D Soil pH: Soil type: L S	fields, thin woods	Region:M P C States: DC DE NY PA VA WV	No.	

		Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
Liatris pilosa var. pilosa (L. graminifolia) grass-leaf blazingstar	RHW	Height: 1-3.5' Flowers:Aug-Oct, purple Fruit:capsule	Light: Moisture: D M Soil pH: Soil type: C L S	open woods, forest edge, salt marsh edges, dune hollows	Region: P C States: DC DE MD VA	₹.	
Liatris scariosa eastern or norther blazing star, tall gayfeather	m WHW	Height: 1-3.5' Flowers:Aug-Sep, lavender to rose- purple Fruit: capsule	Light: D M Soil pH: Soil type: L S	dry upland woods	Region:M P C States: DC DE MD VA WV	ð;	
Liatris spicata gayfeather, blazingstar, spiked blazing star	USFWS RL	Height: 1-6.5' Flowers:Jul-Aug, rose-purple or white Fruit: capsule	Light: Moisture: D M Soil pH: 5.6-7.5 Soil type: C L S	moist meadows, open areas	Region: P C States: DC DE VA WV	\$* * * * * *	
Liatris squarrosa plains blazing stal	第一个人的	Height: 0.5-2.5' Flowers:Jul-Sep, rose Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L S	dry open fields and banks	Region: P C States: DC DE VA		
Lilium canadens Canada lily	RHW e	Height: 1.5-6.5' Flowers:Jun-Aug, yellow, orange, red Fruit: capsule	Light: M W Soil pH: Soil type: L	fields, thickets, woods	Region:M P States: DC DE MD NY PA VA WV		
Lilium philadelphicum wood lily	RHW	Height: 1-3.5' Flowers:Jun-Aug, yellow, red-orange Fruit: capsule	Light: D Moisture: D Soil pH: Soil type: L S	open woods, forest edges, thickets	Region:M P C States: DC DE NY PA VA WV	25	
Lilium superbum	RS MAPS	Height: 4-8' Flowers:Jul-Aug, yellow- orange, orange-red Fruit:capsule	Light: M W Moisture: M W Soil pH: Soil type: L S	meadows, streamsides	Region:M P C States: DC DE MD NY PA VA WV		leaves in whorl around stem; takes several years to bloom
Limonium carolinianum sea lavender	PLANTS LA	Height: 0.5-2' Flowers:Jul-Oct, lavender Fruit:	Light: M W Soil pH: 6-8.5 Soil type: C L S	irregularly flooded high salt marshes	Region: C States: DE MD NY VA		tolerates salinity to 30 ppt

Herbaceous	i iuiito	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
obelia cardinalis rdinal flower	WHW	Height: 2-4' Flowers:Jul-Oct, red Fruit:	Light: M W Soil pH: 5.8-7.8 Soil type: C L	fresh tidal and nontidal marshes, wooded swamps, seeps, banks of ponds, rivers, streams	Region:M P C States: DC DE MD NY PA VA WV	な が が 微	long bloom time; biennial, must reseed
belia siphilitica eat blue lobelia NAM (NSEWS)		Height: 1-5' Flowers:Aug-Oct, blue, violet Fruit:capsule	Light: M W Soil pH: Soil type: C L S	woodlands, meadows, swamps	Region:M P States: DC DE MD NY PA VA WV	No.	long bloom time; white cultivars available
pinus perennis vine, sundial vine		Height: 1-2' Flowers:Apr-Jul, blue, rarely pink or white Fruit:pod	Light: D M Soil pH: Soil type: S	open woods, fields, roadsides, streambanks	Region:M P C States: DC DE NY VA WV		prefers acidic soil
aianthemum nadense anada mayflower		Height: 0.5' Flowers:May-Jul, white Fruit:pale red speckled, berry	Light: Moisture: M Soil pH: Soil type: C L S	woods	Region:M P C States: DC DE MD NY PA VA WV		fragrant flowers
aianthemum cemosum p. racemosum milacina cemosa) se Solomon's al		Height: 1-3.5' Flowers:May-Jul, white Fruit:red, berry	Light: Moisture: M Soil pH: Soil type: C L S	dry to moist woods, clearings, bluffs	Region:M P C States: DC DE MD NY PA VA WV	12	flowers in plume-like clumps at tip of stem; herbal uses
edeola rginiana dian cucumber 윤윤 생		Height: 1-3.5' Flowers:May-Jun, yellowish Fruit: dark purple or black, berry	Light: Moisture: M Soil pH: Soil type: L S	woods	Region:M P C States: DC DE MD NY PA VA WV		rhizome is edible
elanthium rginicum rginia nchflower		Height: 2.5-6.5' Flowers:Jun-Aug, greenish Fruit:capsule	Light: Moisture: M Soil pH: Soil type: C L S	woods, seepages, clearings	Region: P C States: DC DE MD VA WV		
ertensia rginica rginia bluebells		Height: 1-2.5' Flowers:Mar-Jun, pink turning blue Fruit: Mar-May, nut/nut-like	Light: M W Soil pH: 4.5-8 Soil type: C L	rich wooded slopes, floodplains	Region:M P C States: DC DE MD NY PA VA WV		dormant in summer; flowe color blue, pink, or white according to soil acidity

						Herbaceous Plants	
		Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Mimulus ringens monkeyflower, Allegheny monkeyflower	RHW	Height: 1-3' Flowers:Jun-Oct, blue Fruit:capsule	Light: W Moisture: W Soil pH: Soil type: L	open swamps, meadows, shores	Region:M P C States: DC DE NY PA VA WV		interesting flowers
	USPWS, RHW	Height: 0.5' Flowers:May-Jul, white Fruit:July-Dec, scarlet, berry	Light: Moisture: D M Soil pH: Soil type: L S	dry acidic woods	Region:M P C States: DC DE MD NY PA VA WV	72	two flowers form one fruit; berry edible; slow creeper, forms mats under trees
Mitella diphylla twoleaf miterwort, bishop's cap	RHW, RHW	Height: 0.5-1.5' Flowers:Apr-Jun, white Fruit:capsule	Light: M Moisture: M Soil pH: Soil type: C L S	rich, woods	Region:M P C States: DC DE MD NY PA VA WV		
Monarda bradburiana (M. fistulosa) wild bergamot, horsemint	SAMMS	Height: 1.5-5' Flowers:Jun-Sep, pink to purple Fruit:nut/nut-like	Light: D M Soil pH: 6-8 Soil type: C L	fields, thickets, roadsides, forest edges	Region:M P C States: DC DE MD NY PA VA WV	改义	confused with bee-balm (M. didyma); aromatic; herbal uses
Monarda didyma beebalm, Oswego tea	USFWS BES	Height: 2-5' Flowers: Jul-Sep, red Fruit: nut/nut-like	Light: M W Soil pH: Soil type: L	creek banks, floodplains, woods	Region:M States: DC MD NY PA VA WV	***	showy flowers; aromatic; herbal uses
Monarda punctata horsemint, spotted bee-balm	RHW	Height: 0.5-3.5' Flowers:Jun-Oct, yellow and purple Fruit:nut/nut-like	Light: D Moisture: D Soil pH: Soil type: L S	open sandy fields	Region:M P C States: DC DE MD NY VA	Ž.	
Nuttallanthus canadensis (Linaria canadensis blue, old-field, or Canada toadflax	PLANTS WSJ	Height: 0.5-2.5' Flowers:Apr-Sep, light blue Fruit: capsule	Light: D M Soil pH: Soil type: L S	maritime grasslands and shrublands, successional shrubland, woods, fields	Region:M P C States: MD NY VA WV		delicate flowers; prefers well-drained soil
Oenothera biennis common evening primrose	RHW	Height: 1.5-6.5' Flowers:Jun-Oct, yellow Fruit:capsule	Light: D Moisture: D Soil pH: 5-7 Soil type: C L S	cultivated fields, waste ground, roadsides	Region:M P C States: DC DE MD NY PA VA WV	*	flowers open in evening; biennial

10154000	us Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
nothera ticosa row-leaved ndrops	WHW STATE OF THE S	Height: 1-3' Flowers:May-Sep, yellow Fruit:capsule	Light: D M Soil pH: 4.5-7 Soil type: C L S	fields, meadows, roadsides	Region:M P C States: DC DE MD NY PA VA WV	**	
nothera ennis adrops		Height: 0.5-3' Flowers:May-Aug, yellow Fruit:capsule	Light: D M Soil pH: Soil type: L S	fields, pastures, roadsides, shaly slopes	Region:M P States: DC DE MD NY PA VA WV	**************************************	similar to evening primros (O. biennis); long bloom time; spreader
untia humifusa compressa) stern prickly-pear tus	RHW	Height: 0.5-1' Flowers: Jun-Jul, yellow Fruit: purplish to deep red, fleshy	Light: D Moisture: D Soil pH: Soil type: L S	sandy coastal dunes, shaly soils	Region:M C States: DC DE MD VA WV		fruit edible, used for jelly
morhiza gistylis pet cicely, anise t	RHW	Height: 1.5-4' Flowers:May-Jun, white to green Fruit:	Light: Moisture: M Soil pH: Soil type: C L S	rich woods, wooded slopes, thickets	Region:M P C States: DC DE MD NY VA WV		all plant parts have anise scent
alis violacea et wood sorrel 왔		Height: 0.5' Flowers: Apr-Jul, violet Fruit: capsule	Light: D M Soil pH: Soil type: L	woods	Region:M P States: DC DE MD PA WV		Œ
ekera aurea necio aureus) den ragwort, den groundsel	RHW ***	Height: 0.5-2.5' Flowers: Apr-Aug, yellow Fruit: capsule	Light: M W Soil pH: Soil type: L	moist fields, woods, floodplains, roadsides	Region:M P C States: DC DE MD NY PA VA WV		wetland plant; long bloom time; aggressive spreader
stemon talis rdtongue, tall e or foxglove rdtongue		Height: 2-5' Flowers: Jun-Aug, white or faintly purple Fruit: capsule	Light: D M Soil pH: 5.5-7 Soil type: C L S	open woods, meadows	Region:M P C States: DC DE MD NY PA VA WV	*	tolerates poor drainage; variety of cultivars
estemon rigatus ooth or eastern rdtongue	UWI MRB	Height: 1-3.5' Flowers:May-Jul, purplish Fruit:capsule	Light: Moisture: M Soil pH: Soil type:	rich woods, fields	Region:M States: DC MD VA WV		

		Characteristics	Conditions	Habitat	Native to	Herba Wildlife	aceous Plants Notes
Phlox carolina thick-leaved phlox	PLANTS WSJ	Height: 1-2.5' Flowers:May-Jun, pink to purple, rarely white Fruit:capsule	Light: Woisture: D M W Soil pH: Soil type: L S	open woods	Region:M States: DC VA	Ž.	<u>GC</u> ▲
Phlox divaricata woodland or wild blue phlox, wild sweet William	RHW	Height: 1.5' Flowers:Apr-Jun, blue, lavender, white Fruit:capsule	Light: Moisture: Mi Soil pH: 5.5-7.2 Soil type: C L S	rich woods	Region:M P States: DC MD NY PA VA WV	N.	aromatic; showy flower; dormant in summer (leaves disappear); frequently cultivated; evergreen
Phlox maculata hlox, meadow hlox, wild sweet Villiam	PLANTS WSJ	Height: 1-3' Flowers:May-Sep, rose, pink, purple, rarely white Fruit: capsule	Light: M W Soil pH: 5.9-6.8 Soil type: C L	meadows, streambanks, thickets	Region:M P C States: DE PA VA WV	X.	aromatic; showy flowers; a frequent escapee from cultivation
Phlox paniculata ummer phlox, arden phlox	RHW, USFWS BES	Height: 1.5-6.5' Flowers: Jul-Oct, pink, red-purple, white Fruit: capsule	Light: Moisture: M Soil pH: Soil type: L	rich, open woods, roadsides, streambanks, thickets	Region:M P C States: DC PA VA WV	₹	aromatic; showy flowers frequently escapes from cultivation
Phlox stolonifera	RHW, USFWS BES	Height: 0.5-1.5' Flowers:Apr-Jun, blue, red-purple, violet Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: L S	rich woods	Region:M States: DC MD VA WV	₹	<u>GC</u> ▲
hlox subulata noss phlox, moss- ink	USFWS BES, USFWS BES, RHW	Height: 0.5' Flowers:Apr-Jun, rose, pink, white Fruit: capsule	Light: D Soil pH: 5.7-7.5 Soil type: C L S	rock crevices, ledges	Region:M P States: DC MD NY VA WV	Ů.	nice rock garden plant
hysostegia irginiana bedient plant, alse dragonhead	USFWS BES, USFWS BES	Height: 1.5-5' Flowers:Jun-Sep, pink to purple Fruit:nut/nut-like	Light: D M Soil pH: Soil type: C L S	moist open areas, streambanks, shorelines	Region:M P States: DC MD PA VA WV	₹	flowers showy; spreads rapidly by underground stems; best in full sun; can escape cultivation
Podophyllum veltatum Mayapple	RHW	Height: 1-2' Flowers:Apr-May, white Fruit:yellow, berry	Light: Moisture: M Soil pH: Soil type: L	rich woods, open fields	Region:M P C States: DC DE MD NY PA VA WV		ripe fruit edible; woodland groundcover; mottled foliage

Herbaceo	us Piants	Classis de siedia e	Complitions	11-1-4-4	N1=45 -= 4=	1479-1156-	Nata
		Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
olemonium ptans cob's ladder, eek valerian		Height: 0.5-1.5' Flowers:Apr-Aug, blue Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L S	rich or rocky woods, wooded floodplains	Region:M P States: DC DE MD PA VA WV		attractive flowers; slow spreader; herbal uses
	WHW WHA						<u>GC</u>
olygonatum florum olomon's seal, varf Solomon's	RHW	Height: 0.5-6.5' Flowers:Apr-Jun, white or green Fruit:blue to black, berry	Light: Moisture: D M Soil pH: Soil type: L	woods	Region:M P C States: DC DE MD NY PA VA WV		flowers dangle along stalk
lygonatum bescens lomon's seal, wny Solomon's al		Height: 1-3.5' Flowers:Apr-Jun, yellowish-green Fruit:blue to black, berry	Light:	dry to moist woods	Region:M P C States: DE NY PA VA WV		herbal uses; edible
orteranthus foliatus illenia trifoliata) wman's root		Height: 1.5-4' Flowers:May-Jul, white Fruit:pod	Light: Moisture: M Soil pH: Soil type: C L S	open upland woods, clearings, rocky slopes, roadsides	Region:M P States: DC DE MD PA VA WV		established plants drought tolerant; spreads to form tight clumps; seldom needs dividing; yellow fall color
cnanthemum anum ary mountain nt	RHW	Height: 3' Flowers:Jul-Sep, white to lavender, purple spots Fruit: nut/nut-like	Light: Moisture: D Soil pH: Soil type: C L S	upland woods, fields, thickets, barrens	Region:M P C States: DC DE MD NY PA VA WV	₹	
onanthemum uifolium row-leaved untain mint 68W8 21 22 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28		Height: 1.5-2.5' Flowers:Jul-Sep, purple to white Fruit:nut/nut-like	Light: Moisture: D M Soil pH: Soil type: S	streambanks, floodplains, moist fields	Region:M P C States: DC DE NY PA VA WV		
exia virginica ginia meadow- auty	RHW	Height: 1-3.5' Flowers:Jun-Sep, dark pink Fruit:capsule	Light: W Moisture: W Soil pH: Soil type: L	open areas	Region:M P C States: DC DE VA WV		also R. mariana for MD
ndbeckia fulgida rly, eastern, or ange coneflower	USFWS RL	Height: 1.5-3.5' Flowers:Jul-Oct, yelloworange, black eye Fruit:capsule	Light: The Moisture: D M Soil pH: Soil type: L	moist fields, meadows	Region: P States: DC DE MD VA	N. C.	cultivars have nice foliage

		Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
Rudbeckia hirta black-eyed Susan	Sold Annual Control of the Control o	Height: 1-3.5' Flowers:Jun-Oct, yellow, black eye Fruit:capsule	Light: D M Soil pH: 6-7 Soil type: C L	fields, meadows, roadsides	Region:M P C States: DC DE MD NY PA VA WV	To the second se	
Rudbeckia laciniata tall, green- headed, or cutleaf coneflower	RHW	Height: 1.5-10' Flowers: Jul-Sep, yellow Fruit: capsule	Light: M W Soil pH: 4.5-7 Soil type: C L S	floodplains, streambanks, fields	Region:M P C States: DC DE MD NY PA VA WV		herbal uses
Rudbeckia triloba three-lobed coneflower	PLANTS WSJ	Height: 1.5-4.5' Flowers: Jun-Oct, yellow or orange Fruit: capsule	Light: D M Soil pH: Soil type: L S	fields, open woods, rocky slopes	Region:M P States: DC MD NY PA VA WV		
Ruellia caroliniensis Carolina wild petunia		Height: 0.5-3' Flowers:May-Aug, lavender-blue Fruit:capsule	Light: Moisture: M Soil pH: Soil type: C L S	woods, roadsides, thickets, waste places	Region: C States: DC DE MD VA WV		actually in the nightshade family, flower fragile; a highly variable species
Sabatia angularis rose pink, common marsh-pink	RHW	Height: 1-3' Flowers: Jul-Oct, pink or white Fruit: capsule	Light: Moisture: M Soil pH: Soil type: C L S	moist open woods, fields, marshes, meadows; uplands, shores	Region:M P C States: DC DE MD VA WV		
Salvia lyrata lyre-leaf sage	RHW	Height: 1-2' Flowers:Apr-Jun, violet Fruit:nut/nut-like	Light: Moisture: D M Soil pH: Soil type: L S	moist pastures, upland woods, thickets, waste areas	Region:M P C States: DC DE VA WV	S.	
Sanguinaria canadensis bloodroot	***	Height: 0.5' Flowers:Mar-May, white Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L	rich woods, open roadsides	Region:M P C States: DC DE MD NY PA VA WV		showy flowers, but blooms fleetingly; herbal uses
Saxifraga pensylvanica eastern swamp saxifrage	RHW	Height: 1-3' Flowers:Apr-Jun, white to green Fruit:capsule	Light: W Moisture: W Soil pH: Soil type: C L S	wet woods, bogs, swamps	Region:M P C States: DC DE MD NY PA VA		

Herbaceous Pla	iiio	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
ixifraga giniensis rly saxifrage		Height: 0.5-1' Flowers:Mar-May, white Fruit:capsule	Light: Moisture: D M Soil pH: Soil type:	rock crevices, dry slopes, woods	Region:M P C States: DC DE MD NY PA VA WV		
utellaria egrifolia ugh or hyssop ullcap, helmet wer		Height: 1-2.5' Flowers:May-Jul, blue, pink, white Fruit: blackish, nut/nutlike	Light: D M W Soil pH: Soil type:	swamps, bogs, moist woods, fields	Region:M P C States: DC DE MD VA WV		
dum ternatum buntain bunecrop, wild bunecrop	* A REAL PROPERTY OF THE PROPE	Height: 0.5' Flowers:Apr-Jun, greenish-white Fruit:pod	Light: Moisture: M Soil pH: Soil type:	damp rocks, rocky banks, cliffs, woods	Region:M P C States: DC DE MD NY PA VA WV		creeping stems; used in rock gardens
nna marilandica assia irilandica) SB SWASI nyland or SB SWASI nyland or SB SWASI them wild senna		Height: 3-6.5' Flowers:Jul-Aug, yellow Fruit:pod	Light: Moisture: D M Soil pH: 4-7 Soil type: L S	dry roadsides, thickets, open woods	Region:M P C States: DC DE MD VA WV	*ø	pods important food for upland gamebirds
ene caroliniana d pink At E	FK _k	Height: 0.5-1' Flowers: Apr-Jun, white to pink Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: L	dry open woods, rocky slopes, roadside banks, shale barrens	Region:M C States: DC DE MD VA		semi-evergreen; native to limestone areas
ene stellata rry campion, low's frill		Height: 1-3.5' Flowers:Jun-Sep, white Fruit:capsule	Light: Moisture: D M Soil pH: Soil type:	wooded slopes, roadside banks, barrens	Region:M P C States: DC DE MD NY PA VA WV		drought-tolerant; naturalizes in woods
ene virginica pink 사		Height: 1-3' Flowers:Apr-Jul, dark pink to red Fruit: capsule	Light: The Moisture: D M Soil pH: Soil type: L	upland woods, wooded slopes, streambanks, clearings	Region:M P States: DC DE VA WV	X	
phium rfoliatum o plant		Height: 3-8' Flowers:Jul-Oct, yellow Fruit:capsule	Light: D M Soil pH: Soil type: L	floodplains, fields, moist meadows, woods	Region:M P States: DC VA WV		

		Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
Sisyrinchium angustifolium (S. graminoides) blue-eyed grass	CMNRCS	Height: 0.5-1.5' Flowers:Apr-Jun, blueviolet Fruit:brown, capsule	Light: The Moisture: D M Soil pH: 5-7 Soil type: C L	grassy areas, damp woods	Region:M P C States: DC DE MD NY VA WV		grasslike leaves; also S. montanum in NY
Sisyrinchium atlanticum coastal or eastern blue-eyed grass	UMI JS	Height: 0.5-2.5' Flowers:May-Jul, blue-violet Fruit:capsule	Light: Moisture: M W Soil pH: Soil type:	marshes, meadows, low woods	Region: P C States: DC DE MD VA		leaves grasslike, more slender than S. angustifolium
Solidago caesia bluestem goldenrod, wreath goldenrod	RHW	Height: 1-3.5' Flowers:Aug-Oct, yellow Fruit: capsule	Light: D M Soil pH: 5.5-7 Soil type: C L	rich deciduous woods	Region:M P C States: DC DE MD NY PA VA WV	U N. S.	stems bluish or purplish
Solidago canadensis var. scabra (S. altissima) tall or late goldenrod	UWI, RRK	Height: 3.5-6.5' Flowers: Jul-Nov, yellow Fruit: capsule	Light: The Moisture: D M Soil pH: Soil type: L	woods, fields, riverbanks, roadsides	Region:M P C States: DC DE MD NY PA VA WV		
Solidago canadensis Canada goldenrod	UWI MRB	Height: 1-6.5' Flowers: Jul-Oct, yellow Fruit: capsule	Light: Moisture: D M Soil pH: 4.8-7.5 Soil type: C L S	fields, roadsides	Region:M P C States: DE NY VA WV	\$ 1/2 2	
Solidago flexicaulis broad leaf or zig zag goldenrod	RHW	Height: 1-3.5' Flowers: Jun-Oct, yellow Fruit: capsule	Light:	moist woods, rocky wooded slopes	Region:M P States: DC DE MD NY PA VA WV	# 1 3	
Solidago juncea early goldenrod	RHW	Height: 1-4' Flowers: Jun-Oct, yellow Fruit: capsule	Light: Moisture: D M Soil pH: Soil type: S	fields, meadows, rocky slopes, roadsides	Region:M P C States: DC DE MD NY PA VA WV	# 1 3 3	
Solidago nemoralis gray, dwarf, old- field, or one-sided goldenrod	RHW	Height: 0.5-3' Flowers: Jun-Nov, yellow Fruit: capsule	Light: D Moisture: D Soil pH: 6.5-7.5 Soil type: L S	fields, open woods, roadsides	Region:M P C States: DC DE MD NY PA VA WV	むけつ	tolerates poor soils

ricibacce	ous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
lidago odora eet goldenrod	RHW	Height: 1.5-5' Flowers:Jul-Oct, yellow Fruit:capsule	Light: Moisture: D M Soil pH: Soil type: C L S	dry open woods, barrens	Region:M P C States: DC DE NY VA WV	\$ 1 a	
lidago rugosa nkle-leaf or igh-stemmed denrod	RHW	Height: 1-6.5' Flowers:Aug-Nov, Fruit:capsule	Light: M W Soil pH: 5-7.5 Soil type: L S	fields, woods, floodplains, roadsides, waste places	Region:M P C States: DC DE MD NY PA VA WV	& 1 3 €	tough plant; aggressive; strongly colonial
lidago mpervirens aside goldenrod	RHW	Height: 1-6.5' Flowers: Jul-Nov, yellow Fruit: capsule	Light: D M Soil pH: 5.5-7.5 Soil type: L S	coastal areas, dunes	Region: C States: DC DE MD VA	& 10 € 10 € 10 € 10 € 10 € 10 € 10 € 10	coastal plant, may occur where road salts are used
lidago speciosa owy or slender Idenrod	PLANTS TGB	Height: 2-6.5' Flowers: Jul-Oct, yellow Fruit: capsule	Light: D M Soil pH: Soil type: L S	dry to moist open woods and fields	Region:M P States: DC MD NY VA	ないの	
iranthes cernua dding ladies' sses		Height: 0.5-2' Flowers: Jul-Nov, white Fruit:	Light: M W Soil pH: 4.5-6.5 Soil type: C L S	meadows, open woods, roadsides, bogs	Region:M P C States: DC DE MD NY PA VA WV		orchid flowers; herbal use
achys tenuifolia hispida) dge nettle	RHW	Height: 1.5-3.5' Flowers:Jun-Aug, white to pink Fruit:nut/nut-like	Light: M W Soil pH: 5.7-7.4 Soil type: C L S	wooded bottomlands, streambanks, meadows, fields	Region: P C States: DC DE MD VA WV	*	
ellaria pubera or chickweed, oat chickweed	MHW.	Height: 0.5-1.5' Flowers:Mar-Jun, white Fruit:capsule	Light: Moisture: M Soil pH: Soil type:	woods, shaded rocky areas	Region:M P ? States: DC MD VA WV		
mphyotrichum rdifolium ster cordifolius) art-leaved aster	RHW	Height: 1-5' Flowers:Aug-Oct, blueviolet to rose Fruit:	Light: Moisture: D M Soil pH: Soil type: C L S	upland meadows, woods	Region:M P C States: DC NY PA VA WV	er.	

		Characteristics	Conditions	Habitat	Native to	Herb Wildlife	aceous Plants
Symphyotrichum ericoides var. ericoides (Aster ericoides) heath, white heath, or dense-flowered aster; frostweed	RHW	Height: 0.5-6.5' Flowers: Jul-Nov, white, rarely blue, violet, rose Fruit:	Light: D M Soil pH: Soil type: L S	dry fields, forest edges, woods, thickets	Region:M P States: DC DE MD NY WV		forms dense mounds
Symphyotrichum laeve var. laeve (Aster laevis) smooth blue aster	DROW TO THE	Height: 1-5' Flowers: Aug-Oct, pale blue, violet, white Fruit:	Light: D Moisture: D Soil pH: Soil type: C L S	open areas, forest edges	Region:M P C States: DC DE MD NY PA VA WV	&	
Symphyotrichum novae-angliae (Aster novae-angliae) New England aster	SAFAN A	Height: 1-6' Flowers:Aug-Oct, violet capsule Fruit:	Light: Moisture: M Soil pH: Soil type: L	open woods, seasonal wetlands, shores, meadows	Region:M P C States: DC DE MD NY PA VA WV	3	showy, frequently cultivated; tolerates drier soils and seasonal flooding
Symphyotrichum novi-belgii var. novi-belgii (Aster novi-belgii) New York aster	RHW	Height: 1-4.5' Flowers: Jul-Oct, blueviolet Fruit:	Light: Moisture: M W Soil pH: Soil type: L	thickets, meadows, shores	Region: P C States: DC DE MD NY VA	₹	
Symplocarpus foetidus skunk cabbage	HAW, USINS BES	Height: 1-3' Flowers:Feb-May, green to purple-brown Fruit:	Light: W Moisture: W Soil pH: 4-7 Soil type: C L S	fresh tidal and nontidal marshes and shrub swamps, forested wetlands, seeps	Region:M P C States: DC DE MD NY VA WV	73.	flower inconspicuous, emerges before leaves; sap has skunk-like odor
Thalictrum dioicum early meadow rue	RHW	Height: 1-2.5' Flowers:Apr-May, green to purple Fruit: capsule	Light: Moisture: Moisture: Soil pH: Soil type: L	rich rocky woods, ravines, alluvial terraces	Region:M P C States: DC MD NY PA VA WV		
Thalictrum pubescens (T. polygamum) tall meadow rue	RHW	Height: 1.5-9' Flowers: Jun-Aug, white Fruit:	Light: Moisture: M W Soil pH: Soil type:	rich woods, low thickets, swamps, meadows, streambanks	Region:M P C States: DC DE MD NY PA VA WV		foliage similar to columbines; clump-forming; delicate flowers; species very variable
Thalictrum thalictroides (Anemonella thalictroides) rue anemone, windflower		Height: 0.5-1' Flowers:Apr-Jun, white Fruit:	Light: The Moisture: D M Soil pH: Soil type: C L S	wooded banks and thickets	Region:M P C States: DC DE MD NY PA VA WV		foliage similar to columbines

Herbaceous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
arella cordifolia amflower, false iterwort	Height: 0.5-1' Flowers:Apr-Jul, white Fruit: capsule	Light: Moisture: M Soil pH: Soil type: L	rich woods, moist rocky wooded slopes	Region:M P C States: DC MD NY PA VA WV		attractive, long-blooming; creeping, clump-forming; many cultivars
adescantia rginiana rginia spiderwort, dow's tears	Height: 1-3' Flowers:Apr-Jul, deep blue-purple Fruit:capsule	Light: Moisture: M Soil pH: 4-8 Soil type: C L	wooded slopes, shale outcrops, fields, roadsides	Region:M P C States: DC DE MD VA WV		flowers showy
rillium erectum urple or red ullium, wakerobin	Height: 1-1.5' Flowers:Apr-Jun, purple or greenish to white Fruit:dark red, berry	Light: Moisture: M Soil pH: Soil type: L	woods	Region:M P States: DC MD NY PA VA WV		flowers ill-scented
rillium randiflorum hite or large- wered trillium	Height: 0.5-1.5' Flowers:Apr-Jun, white then pink Fruit:black, berry	Light: Moisture: Moisture: Soil pH: Soil type: L	woods	Region:M P C States: DC MD NY PA VA WV		showy flowers; common, often in large colonies
illium sessile adshade	Height: 0.5-1' Flowers:Apr-May, maroon, purple, green Fruit:berry	Light: Moisture: M Soil pH: Soil type: L	woods, floodplains	Region:M P States: DC MD VA WV		
illium undulatum ninted trillium ≥	Height: 1-1.5' Flowers:May-Jun, white with purple Fruit:bright red, berry	Light: Moisture: M Soil pH: Soil type: L	woods	Region:M P States: DC MD NY PA VA WV		
rularia andiflora rge-flowered illwort	Height: 2.5' Flowers:Apr-Jun, orange-yellow Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L	woods	Region:M States: DC NY VA WV		rhizome can be cooked and eaten; young shoots can be substituted for asparagus
vularia perfoliata erfoliate beliwort, ealy beliwort	Height: 0.5-2' Flowers:Apr-Jul, yellow Fruit:capsule	Light: Moisture: M Soil pH: Soil type: L	woods	Region:M P C States: DC DE MD NY PA VA WV		rhizome can be cooked and eaten; young shoots maybe substituted for asparagus

										Herb	aceous Plants
		Characteristics	Со	nditio	ns		Habitat	Nati	ive to	Wildlife	Notes
Uvularia sessilifolia straw lily		Height: 0.5-1' Flowers:May-Jun, yellow Fruit:capsule	Light: Moisture: Soil pH: Soil type:	D.	M L	• s	dry to moist woodlands	Region:M States: DC NY WV	PA VA		rhizomes may be cooked and eaten; young shoots may be substituted for asparagus
Veratrum viride green false hellebore, white hellebore	RHW	Height: 2-5' Flowers:May-Jul, yellow-green Fruit:capsule	Light: Moisture: Soil pH: Soil type:	c	M L	w s	swamps, woods	Region:M States: DC NY WV	DE MD PA VA		leaf edges will brown if soil dries and plant is in windy area; does best in cooler temps; slugs like the foliage
Verbena hastata blue vervain, simpler's joy	RHW	Height: 1.5-5' Flowers:Jun-Oct, blue to purple Fruit:nut/nut-like	Light: Moisture: Soil pH: Soil type:	c	М	W S	meadows, swamps, floodplains, ditches, roadsides	Region:M States: DC NY WV	PA VA	# 73	bright flowers; herbal uses
Verbesina alternifolia wingstem, yellow ironweed		Height: 3.5-8' Flowers:Aug-Oct, yellow Fruit:capsule	Light: Moisture: Soil pH: Soil type:	♦	М		wooded slopes, open woodlands, riverbanks, shaded lowlands, roadsides, fields	Region:M States: DC NY WV	DE MD VA	3 5	threatened in NY
Vernonia noveboracensis New York ironweed	RHW	Height: 3.5-8' Flowers:Aug-Oct, purple Fruit: capsule	Light: Moisture: Soil pH: Soil type:	Ç:	M L	W	streambanks, fields, freshwater marshes	Region:M States: DC NY WV	DE MD PA VA	₹.	brilliant flowers; tall upright form adds structure to garden; spreads
Veronicastrum virginicum (Veronica virginica) Culver's root	RHW	Height: 3-6.5' Flowers:Jun-Sep, white, pink Fruit: capsule	Light: Moisture: Soil pH: Soil type:	Ç;	М	W S	rich woods, meadows, thickets, swamps	Region:M States: DC NY WV	DE MD VA	**	
Viola conspersa American dog violet	AWKWH.	Height: 0.5-1' Flowers:Apr-Jul, pale blue, violet Fruit:green, capsule	Light: Moisture: Soil pH: Soil type:	Ç:	Ж М	• W	woods, fields, swamps	Region:M States: NY WV	PA VA	%	delicate plant and flower; edible
Viola cucullata marsh blue violet, blue marsh violet	RHW	Height: 0-0.5' Flowers:Apr-Jul, pale purple Fruit:green, capsule	Light: Moisture: Soil pH: Soil type:	C	M L	w s	bogs, meadows, swamps	Region:M States: DC WV	DE PA VA	%	stemless; self-sows; can become a nuisance

Herbace	ous Plants	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Viola hastata halberdleaf yellow violet	RHW	Height: 0.5-1' Flowers:Apr-May, yellow w/ violet Fruit:green, capsule	Light: D Soil pH: Soil type:	rich deciduous woods	Region:M States: DC MD VA WV	73	<u>GC</u>
Viola pedata bird's foot violet	RHW	Height: 0-0.5' Flowers:Mar-Jun, pale blue or w/ purple-black tips Fruit:green, capsule	Light: Moisture: D M Soil pH: Soil type: L S	sandy or rocky barrens, dry forested slopes	Region:M P C States: DC DE MD VA WV	72	stemless
Viola pubescens var. pubescens (V. pennsylvanica) yellow violet, downy violet	RHW	Height: 0.5-1.5' Flowers:May-Jun, yellow, purple veins Fruit:green, capsule	Light: Moisture: M Soil pH: 6-7 Soil type: L	moist or dry woods, swamps	Region:M P States: DC DE NY PA VA WV	2	
Viola sororia (V. papilionacea) common blue violet	RHW	Height: 0.5' Flowers:Mar-Jun, dark blue, violet Fruit:green with purple, capsule	Light: M Moisture: M Soil pH: 6-7.8 Soil type: C L	dry to moist woods, swamps, thickets	Region:M P C States: DC DE MD NY PA VA WV	2	delicate plant and flower; edible; spreader; stemless
Viola striata striped cream violet, striped violet		Height: 0.5-1' Flowers:Apr-Jun, ivory w/ purple Fruit:green, capsule	Light:	alluvial woods, swamps, fields	Region:M P C States: DC DE MD NY PA VA WV	7 2	
Yucca filamentosa (Y. flaccida) Adam's needle	RHW	Height: 2-2.5' Flowers:Jun-Sep, white Fruit:	Light: D Moisture: D Soil pH: 5.5-7.5 Soil type: L S	coastal sand dunes, outcroppings on thin rocky soils	Region: C States: DC DE MD VA	*	flower stalk can rise 5-15 feet above foliage
Zizia aurea golden-alexanders	RHW	Height: 1-2.5' Flowers:Apr-Jun, yellow Fruit:	Light: D M Soil pH: Soil type: C L S	wooded bottomlands, streambanks, moist meadows, floodplains	Region:M P C States: DC DE NY PA VA WV	**	

In the *Vines* section: Smilax herbacea

In the Herbaceous Emergents section:
Iris prismatica, versicolor, virginica

		Characteristics	Conditions	Habitat	Herbaceous Native to Wildlife	Emergents
Distichlis spicate	a A A A A A A A A A A A A A A A A A A A	Height: 0.5-1.5' Flowers:Aug-Oct Fruit:pod	Light: M W Soil pH: 6.4-10.5 Soil type: C L Flood Depth: Salinity: 0-50 ppt	tidal salt marshes, from Mean High tide above to spring tide level; high salinity; wet depressions	Region: C States: DC DE MD VA	often intermixed with Spartina patens, forms dense mats
Dulichium arundinaceum three-sided sedge	UWIAH	Height: 1-3.5' Flowers: Jul-Oct Fruit: brown, nut/nut-like	Light: W Soil pH: 4.7-7.5 Soil type: C L S Flood Depth: 0-12"	fresh tidal and nontidal marshes, bogs, swamps, pond edges	Region:M P C States: DC DE NY PA VA WV	grows best where water rarely draws down
Hibiscus moscheutos (H. palustris) rose mallow, eastern rosemallo	CM NRCS &	Height: 3-6' Flowers: Jul-Sep, cream, pink Fruit: Sep-Mar, brown, capsule	Light: M W Soil pH: 4-7.5 Soil type: C L Flood Depth: 0-6" Salinity: 0-15 ppt	fresh to brackish tidal marshes, occasionally nontidal marshes	Region: C States: DC DE MD VA WV	common along coast; persists in winter; split seed capsules; use H. laevis in Piedmont
Iris prismatica	RHW	Height: 1-3' Flowers:May-Jun, blue Fruit: green to brown, capsule	Light: M W Soil pH: Soil type: Flood Depth: 0-6" Salinity: 0-0.5 ppt	fresh to moderately brackish tidal marshes, meadows, shores, swamps, forested wetlands	Region: C States: DC DE VA	leaves 1/4-inch wide, narrower than Iris versicolor
Iris versicolor	RHW	Height: 3' Flowers:May-Jun, blue Fruit: green to brown, capsule	Light: M W Soil pH: Soil type: L S Flood Depth: 0-6" Salinity 0-0.5 ppt	fresh to moderately brackish tidal marshes, meadows, shores, swamps, forested wetlands	Region:M P C States: DC DE MD NY PA VA	
Iris virginica Virginia blue flag	RHW	Height: 1-2' Flowers:May-Jul, blue Fruit: green to brown, capsule	Light: W Soil pH: 4.8-7.3 Soil type: C L Flood Depth: 0-6" Salinity: 0-0.5 ppt	fresh to moderately brackish tidal marshes, meadows, shores, swamps, forested wetlands	Region: P C States: DC VA WV	
Juncus canadensis Canada rush	UWIAH	Height: 1-4' Flowers: Jul-Oct, greenish brown Fruit: brown, capsule	Light: M W Soil pH: 4.5-5.9 Soil type: C L S Flood Depth: Salinity: 0-0.5 ppt	fresh to slightly brackish tidal and nontidal marshes, swamps, ponds and pond borders, shores, wet meadows, shallow water	Region: P C States: DC DE MD NY PA WV	
Juncus effusus	CM NRCS, USPWS BES	Height: 1-4' Flowers:Jun-Sep, greenish brown Fruit: brown, capsule	Light: M W Soil pH: 5.5-7 Soil type: C L S Flood Depth: 0-12"	fresh tidal and nontidal marshes, shrub swamps, meadows, ditches	Region:M P C States: DC DE MD NY PA VA WV	often grows in clumps

Tierbaceou	s Emergents	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
emerianus ack needlerush, pedlegrass rush, pedlegrass rush	PLANTS LA	Height: 1-4' Flowers:May-Oct, yellow-green Fruit: July-Nov, brown, capsule	Light: M W Soil pH: 3.5-7 Soil type: C L Flood Depth: Salinity: 0-25 ppt	brackish and salt marshes, above Mean High tide to spring tide level	Region: C States: DE MD VA	75 2	some nitrogen fixing value
usticia nericana merican ater-willow	RHW	Height: 1-3' Flowers:Jun-Oct, white with purple Fruit: achene (dry, flat seed)	Light: W Moisture: W Soil pH: 5.4-7.6 Soil type: C L S Flood Depth:	muddy edges of shallow freshwater streams, lakes, ponds; shores	Region:M P States: DC MD PA VA WV		has underground stems and forms colonies
osteletzkya rginica eashore mallow	RHW	Height: 1.5-4.5' Flowers: Jul-Sep, pink Fruit: brown, capsule	Light: W Moisture: W Soil pH: Soil type: Flood Depth: Salinity: 0-10 ppt	irregularly flooded salt and brackish marshes, above Mean High tide to spring tide level	Region: C States: DC DE MD VA	*	common near the coast; looks similar to Hibiscus
uphar lutea I. advena) natterdock, yellow ater lily, cow-lily, merican lotus		Height: 1-1.5' Flowers:May-Oct, yellow Fruit: green, berry	Light: W Moisture: W Soil pH: Soil type: C L S Flood Depth12-36"	fresh tidal and nontidal marshes, swamps, ponds	Region:M P C States: DC DE MD NY VA WV	<u>,</u>	large leaves floating but rooted; fruit berry-like, many seeded, somewhat flattened, leathery
rmphaea lorata grant water lily, nerican water lily, nite water lily	RHW	Height: 1-4' Flowers:Jun-Sep, white Fruit: green, berry	Light: W Moisture: W Soil pH: Soil type: C L S Flood Depth: 12-48"	tidal and nontidal fresh waters, shallow lakes, ponds	Region: P C States: DC DE MD NY VA	,3 ,3	large leaves floating but rooted; fruit berry-like, many seeded, somewhat flattened, leathery
rontium Juaticum Olden club	RHW	Height: 1.5-2' Flowers:Apr-Jun, yellow Fruit: green, berry	Light: W Moisture: W Soil pH: Soil type: C L S Flood Depth:	edges of regularly flooded tidal fresh marshes, inland shores, pond borders, on mud or in shallow water	Region: C States: DC DE MD VA WV		fruit is a thick fleshy spike covered with small dark green berry-like structures
Pitandra rginica row arum		Height: 2' Flowers:Apr-Jul, green to white Fruit: green or black	Light: W Soil pH: 5.2-9.5 Soil type: C L S Flood Depth: 0-12" Salinity: 0-2 ppt	fresh to moderately brackish tidal and nontidal marshes, swamps, shallow waters of lakes and ponds	Region: C States: DC DE MD NY VA WV	75 2	globular head of berries enclosed in green leathery case, curved downward
ontederia ordata ckerelweed	UWINC	Height: 3.5' Flowers:Jun-Nov, purple Fruit:	Light: W Soil pH: 6-8 Soil type: C L S Flood Depth: 0-18" Salinity: 0-3 ppt	fresh to moderately brackish, tidal and nontidal marshes, shallow water of ponds or lakes	Region: P C States: DC DE MD NY VA	₹ &¢	spreads vigorously; a small bladder-like structure crested with toothed ridges holds one seed

		Characteristics	Conditions	Habitat	Herbaceou Native to Wildlife	s Emergents
Sagittaria latifolia duck potato, arrowhead, broadleaf arrowhead	RHW	Height: 0.5-4' Flowers:Jul-Sep, white Fruit: green, achene (dry, flat seed)	Light: W Soil pH: 4.7-8.6 Soil type: C L Flood Depth: 0-24" Salinity:	fresh tidal and nontidal marshes, swamps; borders of lakes, streams and ponds	Region: P C States: DC DE MD NY PA VA WV	
Saururus cernuus lizard's tail	RHW	Height: 1.5-4.5' Flowers:Jun-Sep, greenish white Fruit: capsule	Light: W Moisture: W Soil pH: Soil type: C L S Flood Depth: 0-12"	fresh tidal and nontidal marshes, swamps, shallow water	Region: C States: DC DE MD VA WV	fragrant flower; often forms extensive colonies
Schoenoplectus pungens var. pungens (Scirpus pungens, Scirpus americanus) common three- square	CM NRCS	Height: 4' Flowers:Jun-Sep, brown Fruit: Jun-Sep, brown, achene (dry, flat seed)	Light: W Moisture: W Soil pH: Soil type: C L S Flood Depth: 0-6" Salinity: 0-15 ppt	fresh and brackish tidal and nontidal marshes, shores, shallow water	Region:M P C States: DC DE MD VA high wildlivalue	spike above flower is up to 5 inches tall
Schoenoplectus validus (Scirpus validus) great bulrush, soft stem bulrush	PLANTS 1995	Height: 6-10' Flowers: Jun-Sep, brown Fruit: Jun-Sep, brown, achene (dry, flat seed)	Light: W Moisture: W Soil pH: Soil type: C L S Flood Depth: 0-12" Salinity: 0-5 ppt	fresh to brackish tidal and nontidal marshes, pond edges, quiet waters, emergent marshes	Region:M P C States: MD NY PA VA high wildli value	spreads rapidly
Scirpus atrovirens black or green bulrush, dark green bulrush	PLANTSJA	Height: 3-6' Flowers:Jun-Aug, brown Fruit:Jun-Aug, brown, achene (dry, flat seed)	Light: W Moisture: W Soil pH: 4-8 Soil type: C L Flood Depth: Salinity:	shallow emergent marshes, shrub swamps, floodplain forests, wooded swamp, bogs, wet meadows, swales, ditches	Region:M P C States: MD NY PA VA WV high wildlivalue	grows in clumps or sod- forming
Scirpus cyperinus woolgrass, woolgrass bulrush	USDAJK	Height: 4-5' Flowers:Aug-Sep, brown Fruit: Aug-Sep, brown, achene (dry, flat seed)	Light: M W Soil pH: 4.8-7.2 Soil type: C L S Flood Depth: Salinity:	fresh tidal and nontidal marshes, swamps, forested wetlands, meadows, ditches, ponds, bogs	Region:M P C States: DC DE MD NY PA VA WV high wildlivalue	grows in large clumps, ofter extensive colonies
Sparganium americanum American bur-reed	RHW	Height: 5' Flowers:May-Aug, greenish Fruit:green to brown, achene (dry, flat seed)	Light: W Soil pH: 4.9-7.3 Soil type: C L S Flood Depth: 0-6"	fresh nontidal marshes, shallow waters, muddy shores	Region:M P C States: DC DE NY PA VA WV	good for sediment stabilization
Spartina alterniflora salt marsh or smooth cordgrass	USFWS	Height: 2-7' Flowers:Jul-Sep Fruit:	Light: M W Soil pH: 5.4-7 Soil type: C L S Flood Depth: Salinity: 0-35 ppt	salt and brackish tidal marshes (mid-tide up to Mean High tide level)	Region: C States: DC DE MD VA	good for shore stabilization; important in seaside habitats; short form (<1.5 ft) found in irregularly flooded high marsh, tall form in regularly flooded low marsh

Herbaceo	us Emergents	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Spartina cynosuroides big cordgrass	PLANTS LA	Height: 3.5-10' Flowers:Aug-Oct Fruit:	Light: M W Soil pH: 5.8-7.5 Soil type: C L S Flood Depth: Salinity: 0-10 ppt	fresh and brackish tidal marshes, near Mean High tide and above to spring tide level	Region: C States: DC DE MD NY PA VA	33	soil stabilizer; not drought tolerant
Spartina patens salt meadow hay		Height: 1-3' Flowers:Jul-Sep Fruit: achene (dry, flat seed)	Light: M W Soil pH: 5.3-7.5 Soil type: C L S Flood Depth: Salinity: 0-35 ppt	coastal salt and brackish tidal marshes; irregularly flooded high marsh at or above Mean High tide line	Region: C States: DC DE MD VA	73	forms large mats; good for shore erosion control
Spartina pectinata freshwater cordgrass, prairie cordgrass	CM NRCS	Height: 4' Flowers:Jul-Sep Fruit: achene (dry, flat seed)	Light: M W Soil pH: 6-8.5 Soil type: L Flood Depth: 0-6" Salinity: 0-3 ppt	brackish and fresh tidal and nontidal marshes, shores, wet meadows; upper half of intertidal zone and above to spring tide level	Region:M P C States: DC DE MD NY PA VA WV	73 2	shore stabilizer; low drought tolerance
Zizania aquatica wild rice	RHW	Height: 6-10' Flowers:Jun-Sep Fruit: achene (dry, flat seed)	Light: Moisture: M W Soil pH: 6.4-7.4 Soil type: C L S Flood Depth: 0-36" Salinity:	fresh tidal and nontidal marshes, streamsides, shallow waters	Region: C States: DC DE MD NY VA	% \$	annual; edible

In the Ferns section:
Dryopteris cristata
Onoclea sensibilis Osmunda cinnamomea, regalis

Thelypteris palustris

Woodwardia areolata, virginica

In the Grasses & Grasslike Plants section:

Andropogon glomeratus (virginicus var abbreviatus), virginicus

Calamagrostis canadensis

Carex crinita var. crinita, lurida, stricta, vulpinoidea

Elymus virginicus

Leersia oryzoides

Panicum amarum, virgatum

In the Herbaceous Plants section:

Asclepias incarnata Bidens cernua

Caltha palustris

Doellingeria umbellata var. umbellata (Aster umbellatus)

Lobelia cardinalis

Symphyotrichum novae-angliae (Aster novae-angliae) Symphyotrichum novae-angliae (Aster novae-angliae) Symplocarpus foetidus Verbena hastata

Vernonia noveboracensis

Wetland plants (**Spartina** alterniflora, here) stabilize the shoreline without obstructing the homeowner's view.









	Characteristics	Conditions	Habitat	Native to	Wildlife	Shrubs Notes
Alnus serrulata smooth alder, hazel STATA SB SATATA SB S	Height: 12-20' Flowers: Mar-Apr, purple Fruit: Aug-Feb, brown, cone/cone-like Fall color: yellow, red	Light: M W Soil pH: 5.5-7.5 Soil type: C L	fresh tidal and nontidal marshes, shrub swamps, forested wetlands	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	forms thickets along watercourses; nitrogen fixing; tolerates flooding to 3 inches
Aralia spinosa Devil's walking stick	Height: 20-30' Flowers: Jul-Aug, white Fruit: Aug-Sep, black, berry Fall color: yellow	Light: Moisture: D M Soil pH: 5.5-7.1 Soil type: C L S	moist woods, stream banks, roadsides	Region:M P C States: DC DE MD VA WV	high wildlife value	seeds are poisonous if chewed; low maintenance; spreads from new shoots; thorny, clublike stem
Baccharis halimifolia high-tide bush, groundsel tree, sea myrtle	Height: 6-12' Flowers: Aug-Sep, white Fruit: Oct-Nov, silvery white, achene Fall color: purple	Light: Moisture: D M W Soil pH: 7-8.5 Soil type: C L S O	fresh to salt marshes, ditches, shores, dunes	Region: C States: DE MD VA	<i>7</i> 3	volunteers in disturbed places; shallow, lateral roots; tolerates flooding to 6 inches; tolerates salinity to 15 ppt
Callicarpa americana American beautyberry, French mulberry Sag SMASI	Height: 6' Flowers: Jun-Aug, lavender-pink Fruit: Sep-Mar, lavender, berry Fall color:	Light: Moisture: D M Soil pH: 4.8-7 Soil type: C L S		Region: C States: DC VA	No.	flowers from new growth; if overgrown prune to 6-18 inches tall; will regain height in one season
Ceanothus americanus New Jersey tea	Height: 3' Flowers: May-Sep, white Fruit: Sep-Oct, black Fall color: yellow to tan	Light: The Moisture: D Soil pH: 4.3-6.5 Soil type: C L S	meadows, fields, glades, open woods, borders, rocky areas, openings	Region:M P C States: DC DE MD NY PA VA WV	Si i a	tough; tolerates moist soil if well drained; fixes nitrogen; tolerates dryness
Cephalanthus occidentalis buttonbush	Height: 6-12' Flowers: Jul-Aug, creamy white Fruit: Sep-Jan, green to brown Fall color: yellow-green	Light: M W Soil pH: 6.1-8.5 Soil type: C L S O	fresh tidal and nontidal marshes, shrub swamps, forested wetlands; stream, lake and pond edges	Region:M P C States: DC DE MD NY PA VA WV	& • • •	needs sun to flower; flowers fragrant; interesting fruit; tolerates drought; leaves may persist into winter; tolerates flooding to 36 inches
Clethra alnifolia sweet pepperbush, summersweet	Height: 6-12' Flowers: Jul-Aug, white/pink Fruit: Sep-Feb, brown, capsule Fall color: yellow	Light:	tidal and nontidal forested wetlands, shrub swamps, bogs, woods, coastal river floodplains, lakeshores	Region: C States: DC DE MD NY VA	む グ う 文 数	very fragrant; tolerates some flooding by partly salty water
Comptonia peregrina sweetfern	Height: 3' Flowers: Apr-May, yellow-green Fruit: Aug-Oct, green to brown, cone/cone-like Fall color: brown	Light: The Moisture: D Soil pH: 4-7 Soil type: L S O	hillsides, cliffs, woods openings, sand flats and barrens, fields, dunes	Region:M P C States: DC DE MD NY PA VA WV	% 3	fragrant; fixes nitrogen, leaves may persist into winter

Shrubs	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
ornus amomum ilky dogwood, red illow, silky cornel	Height: 6-12' Flowers: May-Jun, white Fruit: Aug, blue, berry Fall color: orange, red or purple	Light: M W Soil pH: 6.1-7.5 Soil type: C L S	forested wetlands, floodplains, shrub wetlands, stream and pond banks, clearings	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	
d-panicled or gray bywood	Flowers: May-Jun, white Fruit: Aug-Sep, white, red stems, berry Fall color: purple	Light: Moisture: D M Soil pH: 6.1-8.5 Soil type: C L	open wooded floodplains, forested wetlands, shrub swamps, rocky woods or ledges, fencerows	Region:M P States: NY VA WV	high wildlife value	tolerates a variety of conditions; berries are food for many songbirds and small mammals
merican hazelnut NNOON rillbert	Height: 10-15' Flowers: Mar-Apr, brown or red Fruit: Aug-Sep, light brown, nut/nut-like Fall color: yellow orange	Light: Moisture: D M Soil pH: 6.1-7.5 Soil type: C L	dry woodlands, forest edges, hillsides, fence rows, ravines, floodplain woods, brushy pastures	Region:M P States: DC DE MD NY PA VA WV	50 3	forms large thickets; edible nut; male catkins brown, female red
aultheria rocumbens intergreen, neckerberry Mar. Mar. Mar. Mar.	Height: 0.5' Flowers: May-Aug, white to pink Fruit: Jul-Apr, red, berry Fall color: evergreen	Light: The Moisture: D M Soil pH: 4-6.5 Soil type: L S O	clearings, steep rocky open slopes, sandy oak woods, hummocks in bogs	Region:M P C States: DC DE MD NY PA VA WV	% 3	dense, mat-like form; forms colonies; edible fruits, leaves; wintergreen taste and scent
aylussacia accata ack huckleberry	Height: 1.5-3' Flowers: May-Jun, white to pink Fruit: Jul-Sep, black, berry Fall color: reddish-purple	Light: Moisture: D M W Soil pH: 4.5-6.5 Soil type: C L S	woods, thickets	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	very common; fruits edible but many-seeded
aylussacia ondosa angleberry	Height: 2-4' Flowers: Apr-Jun, greenish to purple Fruit: Jul-Oct, blue, berry Fall color: reddish-purple	Soil type: S	woods and thickets	Region:M C States: DC DE MD NY VA	high wildlife value	berries borne on long, drooping stems
amamelis rginiana tch hazel	Height: 15-30' Flowers: Sep-Dec, yellow Fruit: Oct-Nov, tan brown, capsule Fall color: yellow	Light: Moisture: D M Soil pH: 5.5-6.5 Soil type: C L S	woods or brushy fields, moist or dry	Region:M P C States: DC DE MD NY PA VA WV	to the	noted for fall/winter bloom; medicinal uses, leaves may persist into winter
ydrangea borescens ild or smooth drangea	Height: 3-6' Flowers: Jun-Aug, white Fruit: Oct-Jan, brown, capsule Fall color: yellow	Light: M Moisture: M Soil pH: 6.1-8.5 Soil type: L S	rich upland or floodplain woods, streambanks	Region:M P States: DC MD PA VA WV		eaves poisonous to humans; does best on loamy soils

	Characteristics	Conditions	Habitat	Native to	Wildlife	Shrubs Notes
Hypericum densiflorum dense St. John's wort	Height: 1.5-6' Flowers: Jul-Sep, yellow Fruit: Oct-Apr, brown, capsule Fall color: yellow green	Light: Moisture: D M W Soil pH: 5.5-7 Soil type: C L S O	low boggy places, seepage slopes, pond and lake edges, wet meadows, streambanks, ditches, moist pinelands	Region:M P C States: DC DE MD VA	73 2	blooms small but form dense flat-topped clusters; can spread aggressively
ilex glabra sinkberry SB SNASN	Height: 6-10' Flowers: May-Jun, greenish white Fruit: Sep-Mar, black, berry Fall color: evergreen	Light: Moisture: D M Soil pH: 4.5-6 Soil type: C L S O	forested wetlands, shrub swamps, sandy woods	Region: C States: DE NY VA	high wildlife value	berries persist through winter; male and female flowers on separate plants; tolerates some salt flooding; short cultivars (4-5') available
lex laevigata smooth winterberry MH2 MH2 MH2	Height: 10-12' Flowers: May-Jul, white to cream Fruit: Sep-Feb, red, scarlet, berry Fall color: yellow	Light: M Moisture: M Soil pH: 4.5-6.5 Soil type: C L S O	wooded swamps	Region: C States: DC DE MD VA	high wildlife value	berries provide winter bird food; prefers soil with a calcareous layer
lex verticillata winterberry, winterberry holly, plack alder	Height: 6-12' Flowers: Jun-Jul, greenish white Fruit: Aug-Feb, red, Fall color:yellow to brown	Light: M W Soil pH: 4.5-6.5 Soil type: C L S O	fresh tidal swamps, shrub swamps, forested wetlands	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	berries provide winter bird food, poisonous to humans; berries on female plants, need male plant to pollinate
tea virginica assel-white, Virginia sweetspire	Height: 6-10' Flowers: Jun-Jul, white Fruit: Aug-Mar, brown, capsule Fall color: red to purple	Light: Moisture: M Soil pH: 5.1-7.5 Soil type: C L S	forested wetlands, shrub swamps, streambanks, shallow water	Region: C States: DC DE MD VA	グ <u>ふ</u> ス <u>歳</u>	fruit capsules on stalk; plant will sucker, form thickets; tolerates flooding to 6 inches
ra frutescens harsh elder, high de bush HAWATS FA RHW	Height: 2-10' Flowers: Aug-Oct, greenish white Fruit: not conspicuous, capsule Fall color:	Light: D M Soil pH: 5-5.7 Soil type: C L S	tidal brackish and salt marshes	Region: C States: DE MD VA	*	similar to Baccharis halimifolia but with opposite leaves; tolerates salinity to 15 ppt
Kalmia Ingustifolia theep laurel, ambkill SS	Height: 2-3' Flowers: May-Jul, white, pink, purple, red Fruit: Sep-Mar, brown, capsule Fall color: evergreen	Light: M W Soil pH: 4.5-6 Soil type: C L S O	pastures, barrens, slow wooded streams, swamp borders, bogs, thickets	Region: C States: DC DE MD NY PA VA	73	foliage poisonous to hoofed browsers (not eaten by deer)
Calmia latifolia mountain laurel	Height: 12-20' Flowers: May-Jul, white to pink/purple Fruit: May-Jun, brown, capsule Fall color: evergreen	Light: D M W Soil pH: 4.5-6 Soil type: C L S O	and slopes	Region:M P C States: DC DE MD NY PA VA WV	7 2	foliage poisonous to hoofed browsers; PA state flower

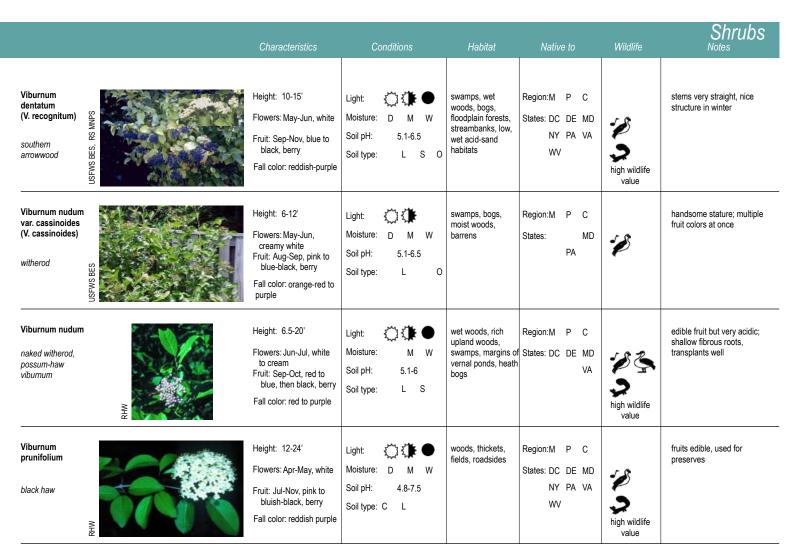
Shrubs	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Leucothoe racemosa fetterbush, sweetbells To Man La Man	Height: 13' Flowers: May-Jun, white, pinkish Fruit: brown, capsule Fall color:	Light: M W Soil pH: 4.5-6 Soil type: C L	swamps, woods, thickets	Region:M P C States: DC DE MD NY PA VA		zig-zag twigs, reddish or greenish; tends to sucker, forming thickets
Cunneca benzoin spicebush Connection Con	Height: 6.5-16' Flowers: Mar-May, yellow Fruit: Sep-Oct, scarlet, berry Fall color: yellow	Light: M W Soil pH: 4.5-6.5 Soil type: L S	woods, wooded slopes, dunes, floodplain forests	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	all parts edible and aromatic; herbal uses
Lyonia ligustrina male-berry ###	Height: 6-12' Flowers: May-Jul, white Fruit: Sep-Mar, brown, capsule Fall color: orange to red	Light: Moisture: M Soil pH: 4-6 Soil type: C L S O	open areas, swamps, woods	Region:M P C States: DC DE MD NY PA VA WV	F 3	berry-like capsules persist through winter
Lyonia mariana stagger-bush	Height: 0.5-6.5' Flowers: May-Jun, white, pale pink Fruit: Sep-Feb, brown, capsule Fall color: red	Light:	swamps, moist or dry woods	Region: C States: DC DE MD VA		interesting woody capsules persist through winter
Morella caroliniensis (Myrica heterophylla) southern or swamp bayberry	Height: 8-12' Flowers: Apr-Jun, yellowish-green Fruit: Sep-Apr, bluish white, berry Fall color: evergreen	Light: D M W Soil pH: 4.5-7 Soil type: C L S	dry or moist thickets, woods, bogs	Region: C States: DE VA	B	glossy dark green leaves, leaves larger than M. cerifera, plants fuller
Morella cerifera (Myrica cerifera) wax myrtle, southern bayberry	Height: 6-15' Flowers: Mar-Jun, yellowish-green Fruit: Sep-Apr, bluish white, berry Fall color: evergreen in southern areas	Light: The Moisture: D M W Soil pH: 5.5-7 Soil type: C L S	tidal and nontidal fresh and brackish marshes, swamps, sandy dune swales upland woods	Region: C States: DE MD VA	B	fragrant; loses leaves north and west of Ches. Bay, MD north; may reach 30 feet; can be pruned as hedge; nitrogen fixer; tolerates salinity to 10 ppt
Morella pensylvanica (Myrica pensylvanica) northern bayberry, candleberry	Height: 5-10' Flowers: Mar-Apr, yellowish-green Fruit: Sep-Apr, bluish white, berry Fall color:	Light: Moisture: D M W Soil pH: 5.1-6.5 Soil type: C L S	tidal and nontidal fresh and brackish marshes, swamps, sand flats, dunes	Region: C States: DC DE MD NY VA	high wildlife value	fragrant leaves; tends to sucker and form large colonies; waxy berries persist through winter; tolerates salinity to 20 ppt
Photinia melanocarpa (Aronia melanocarpa) black chokeberry Samura Samu	Height: 3-6' Flowers: Apr-May, white or pink-tinged Fruit: Sep-Nov, black, berry Fall color: crimson red	Light: Moisture: D M W Soil pH: 5.1-6.5 Soil type: C L S O	bogs, swamps, springs, dunes, cliffs, fields, clearings, wet or dry thickets, creek banks, balds, rock outcroppings	Region:M P C States: DE MD NY PA VA WV	P 2	can be pruned as hedge

		Characteristics	Conditions	Habitat	Native to	Wildlife	Shrubs Notes
Photinia pyrifolia (Aronia arbutifolia red chokeberry	USFWS BES, VT	Height: 1.5-13' Flowers: Mar-May, white, purple-tinged Fruit: Sep-Dec, red, berry Fall color: orange to red	Light: D M W Soil pH: 5.1-6.5 Soil type: C L S	forested wetlands, shrub bogs, upland forests, fields, dunes	Region:M P C States: DC DE MD NY PA VA WV	% 3	tolerates infrequent flooding by water with some salt; can be pruned as hedge
Physocarpus opulifolius ninebark	USFWS BES	Height: 5-12' Flowers: May-Jul, white, pink Fruit: Jul-Mar, orange to red, capsule Fall color:yellow to purple	Light: M W Soil pH: 6.1-8.5 Soil type: C L	thickets, along streams in sand or gravel bars, rocky slopes	Region:M P States: DC NY PA VA WV	が多く	papery bark continually molts in thin strips; very drought tolerant; adaptable
Prunus maritima beach plum	CM NRCS	Height: 1-8' Flowers: Apr-May, white Fruit: Aug, blue-purple, fleshy Fall color:	Light: Moisture: D M Soil pH: 5.8-7.7 Soil type: L S	ocean dunes, roadsides, hedgerows	Region: C States: DE MD	high wildlife value	edible fruit, prized for jams and jellies; salt tolerant
Rhododendron atlanticum dwarf or coast azalea	GMARS, USFWS BES	Height: 1-2.5' Flowers: Apr-May, white, purple-tinged Fruit: brown, capsule Fall color:	Light: M Moisture: M Soil pH: 4.2-5.7 Soil type: S	coastal, sandy soils	Region: C States: DE MD VA		flowers very fragrant; colonial, arising from spreading underground stems;
Rhododendron calendulaceum	RHW	Height: 5-9' Flowers: May-Jun, yellow, orange, red Fruit: Aug-Feb, brown, capsule Fall color: yellow green	Light: Moisture: D M Soil pH: 5.1-6 Soil type: C L	open oak woods, dry rocky woodlands, damp slopes, mountain streambanks, heath balds	Region:M States: VA WV	No.	
Rhododendron canescens sweet azalea	PLANTS, PLANTS	Height: 3-10' Flowers: Apr-May, white or pink Fruit: brown, capsule Fall color:	Light: M Moisture: M Soil pH: 4.2-5.7 Soil type: S	woods	Region: C States: DC DE MD		
Rhododendron maximum great laurel, rosebay rhododendron	RHW, USFWS BES	Height: 15-20' Flowers: May-Aug, white, pink Fruit: Sep-Nov, tan to red, capsule Fall color: evergreen	Light: M W Soil pH: 4.5-6 Soil type: L	mountain slopes, woods, sheltered coves, ravines, streamsides	Region:M P States: DC MD NY PA VA WV		needs space; may form dense thicket
Rhododendron periclymenoides pinxterbloom, pink azalea, pinxter flower	RHW	Height: 3-10' Flowers: Apr-May, pink, purple, white Fruit: Aug-Mar, brown, capsule Fall color: dull yellow	Light: Moisture: D M W Soil pH: 4.5-5.5 Soil type: L	woods, low swampy areas, limestone cliffs	Region:M P C States: DC DE MD NY PA VA WV		will tolerate thin soils over bedrock; open, airy quality; susceptible to disease and insects

Shrubs	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Rhododendron prinophyllum rose, roseshell, mountain or early azalea	Height: 2-8' Flowers: May-Jun, pink Fruit: May-Sep Fall color:	Light: The Moisture: D M Soil pH: Soil type: O	rocky or rich woods	Region:M States: PA VA WV		may reach 15 feet tall, but rarely; flowers have clove- like scent
Rhododendron viscosum swamp azalea	Height: 6.5-10' Flowers: May-Aug, white, pink Fruit: Aug-Mar, brown, capsule Fall color: yellow, orange, to purple	Light: M W Soil pH: 4-6 Soil type: C L S O	wet floodplain woods, streambanks, swamp edges, hillside bogs, ditch banks, clearings	Region:M P C States: DC DE MD NY VA	Ş	attractive spreading, loose- branched habit; demands acid soil; susceptible to disease and insects
Rhus aromatica iragrant sumac	Height: 6' Flowers: Mar-May, greenish yellow Fruit: Jul-Mar, dark wine red, berry Fall color: red	Light: D Soil pH: 6.1-8.5 Soil type: L S	limestone cliffs, open upland woods, rocky bluffs, oak barrens, foredunes, barren rock	Region:M P States: DC MD NY VA WV	high wildlife value	fuzzy edible berry clusters; aromatic leaves; shorter cultivars available; male and female separate plants
Rhus copallina shining, winged, flameleaf, or dwarf sumac WWW WW W	Height: 20-35' Flowers: Jul-Sep, greenish yellow Fruit: Oct-Nov, red, berry Fall color: rich red	Light: D Soil pH: 5.3-7.5 Soil type: C L S	thickets, fields, open woods, roadsides, fencerows	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	forms large colonies; winter food for wildlife
Rhus glabra weet or smooth umac SO No.	Height: 2-20' Flowers: Jun-Jul, greenish Fruit: Aug-Oct, red, berry Fall color: red	Light: Moisture: D M Soil pH: 5.3-7.5 Soil type: L S	dry or moist open areas, shale barrens, fields, dry open slopes, roadsides, fencerows	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	fuzzy berry clusters; male and female may be on separate plants; extremely drought resistant
Rhus hirta R. typhina) staghorn sumac	Height: 35-50' Flowers: Jun-Jul, yellow-green Fruit: Jul-Feb, red, berry Fall color: orange-red	Light: Moisture: D M Soil pH: 4.5-7.2 Soil type: C L S	fields, roadsides, forest edges	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	spreads by lateral roots to form colonies; female plants produce seed; winter food for wildlife
Appalachian or astern gooseberry SS	Height: 3-6' Flowers: May-Jul, greenish purple Fruit: Jul-Aug, purple or greenish, berry Fall color: red	Light: The Moisture: D Soil pH: 6.1-8.5 Soil type: C L S	rocky upland woods	Region:M P States: DC MD NY VA WV	73	do not use near apple orchards; may spread cedar apple rust
Rosa carolina pasture rose Salving Sa	Height: 0.5-3' Flowers: May-Jun, pale pink Fruit: Aug-Mar, red, berry Fall color: yellowish to orange	Light: Moisture: D M Soil pH: 6.1-8.5 Soil type: C L S	dry fields, open woods; rocky banks, shale barrens	Region:M P C States: DC DE MD NY VA WV	high wildlife value	edible fruit is a berry-like hip; thorns

		Characteristics	Conditions	Habitat	Native to	Wildlife	Shrubs _{Notes}
Rosa palustris swamp rose	PLANTS WSJ.	Height: 8' Flowers: Jun-Aug, pink Fruit: Jul-Mar, red, berry Fall color:	Light: M W Soil pH: 4-7 Soil type: C L	fresh tidal and nontidal marshes, forested wetlands, shrub swamps, streambanks	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	edible fruit is a berry-like hip; thorns; tolerates flooding to 3 inches
Rubus allegheniensis Allegheny blackberry	USFWS BES, RHW	Height: 3-9' Flowers: May-Jun, white Fruit: Jul-Sep, black, berry Fall color: orange, red, to purple	Light: The Moisture: D M Soil pH: 4.5-7.5 Soil type: C L	roadsides, fence rows, fields, thickets, open woods, clearings	Region:M P States: DC DE MD NY PA VA WV	high wildlife value	prickly; juicy edible fruit used by people and wildlife
Rubus odoratus purple flowering raspberry, fragrant thimbleberry	PLANTSWSJ	Height: 3-6' Flowers: Jun-Sep, rose purple Fruit: Jul-Sep, dull red, berry Fall color: pale yellow	Light: Moisture: M Soil pH: 5.1-6 Soil type: C L S	forest edges, rocky ledges, rocky wooded slopes	Region:M P States: DC DE MD NY PA VA WV	high wildlife value	feels sticky; fruit edible; spreads by suckers
Salix humilis prairie willow	PLANTS 1997	Height: 6-12' Flowers: Apr-May, greenish yellow Fruit: May-Jun, brown, capsule Fall color: dull yellow	Light: Moisture: D M W Soil pH: 6.1-7.5 Soil type: C L S O	dry thickets, openings, boggy swales; mountain ridges, barrens, meadows, roadsides	Region:M P C States: DC DE PA VA WV	high wildlife value	typically spreads up to twice it's height; flowers are catkins
Sambucus nigra ssp. canadensis (S. canadensis) common elderberr American elder	RS MNPS, USFWS	Height: 6-12' Flowers: Jun-Jul, white Fruit: Aug-Sep, purple to black, berry Fall color: yellow green	Light: Moisture: D M W Soil pH: 6.1-7.5 Soil type: C L S O	fresh tidal and nontidal marshes, swamps, wet meadows, moist woods, fields	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	berries eaten by 48 species of birds
Sambucus racemosa var. racemosa (S. pubens) red elderberry, scarlet elder	RHW, RHW	Height: 6-12' Flowers: May, white Fruit: Jun-Jul, red, berry Fall color: yellow green	Light: Moisture: D M Soil pH: 6.1-8.5 Soil type: L	rich woods, dry rocky woods, along creeks, rock crevices, sheltered coves, ravines	Region:M States: PA VA WV	high wildlife value	important summer wildlife food; one of earliest blooming shrubs; fragrant
Spiraea alba var. latifolia (Spiraea latifolia) broad-leaved meadow-sweet	RHW	Height: 3-6' Flowers: Jun-Sep, white or pinkish Fruit: Sep-Mar, brown, capsule Fall color: yellow	Light: Moisture: M Soil pH: Soil type: L S	bogs, woods, barrens, swamps	Region:M States: DC DE MD NY VA WV	12	similar to S. alba but twigs more purplish or red
Spiraea alba narrow-leaved meadow-sweet	RHW	Height: 3-6' Flowers: Jun-Sep, white Fruit: Sep-Mar, brown to red brown, capsule Fall color: yellow	Light: Moisture: M Soil pH: 6.6-7.5 Soil type: C L S O	bogs, swamps, meadows	Region:M States: DC DE MD NY VA WV	12	bark may be shaggy, orange-brown

Shrubs	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
iraea nentosa eplebush, dback spirea	Height: 3-6' Flowers: Jul-Sep, pink to purple Fruit: Sep-Mar, brown, capsule Fall color: yellow green	Light: M W Moisture: M W Soil pH: 5.1-6 Soil type: C L S O	meadows, fields, bogs, swamps, lake edges, marshes, dunes, swales	Region:M P C States: DC DE MD NY VA WV	13	cultivars available with white or red flowers
ohylea trifolia erican Idernut	Height: 3-15' Flowers: May, greenish white Fruit: Aug-Dec, red-brown, capsule Fall color: yellow	Light: Moisture: M Soil pH: 6.1-8 Soil type: L	rich woods, floodplain woods, ravines, shores of lakes and ponds, rocky wooded streambanks, shaded dunes	Region:M P States: DC MD PA VA WV	چ	fruit is 3-lobed, papery, balloon-like capsule; branches green-white striped
cinium ustifolium bush blueberry	Height: 1-2' Flowers: May-Jun, white or pink-tinged Fruit: Jul-Aug, blue to black, berry Fall color: red	Light: Moisture: D M Soil pH: 4-6 Soil type: C L S	dry woods, barrens, rock outcroppings	Region:M P States: DC MD NY PA VA WV	Migh wildlife value	edible berries often harvested, makes a nice ground layer
cinium ymbosum SB 8 W. M. Shush blueberry SB 8 W	Height: 6-12' Flowers: Apr-Jun, white or pink-tinged Fruit: Jul-Aug, blue to black, berry Fall color: yellow to red	Light:	forested wetlands, shrub swamps, bogs, dry to wet woods, thickets, streambanks, rock outcroppings	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	edible berries commonly cultivated
cinium crocarpon aberry	Height: 0.5-1' Flowers: Jun-Jul, white to pink Fruit: Sep-Nov, red, berry Fall color: dark green to purple to red	Light: W Moisture: W Soil pH: 4-6 Soil type: L S O	sphagnum bogs, cool swampy areas	Region:M C States: DC DE MD NY PA WV	3	low mat form, can spread indefinitely; edible cranberries
ccinium lidum vacillans) ly lowbush eberry	Height: 1.5-2' Flowers: Apr-May, white, reddish Fruit: Jul-Aug, blue, berry Fall color:	Light: D M Soil pH: Soil type: L S	dry woods and barrens	Region:M P C States: DC DE MD PA VA WV	high wildlife value	sweet berries
ecinium mineum arberry	Height: 6-12' Flowers: Apr-Jun, white or purple Fruit: Sep-Oct, bluish black, berry Fall color: red	Light: D M Soil pH: 4-6.5 Soil type: C L S	dry woods, openings, barrens; uplands, floodplain forests, clearings, thickets, rock outcroppings	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	berries edible but sour
urnum ole-leaved owwood	Height: 3-6' Flowers: Jun, creamy- white, pink Fruit: Aug-Dec, blue to black, berry Fall color: orange, red, purple	Light: Moisture: D M Soil pH: 5.1-6 Soil type: C L	floodplain forests, dry wooded slopes, woods,rocky slopes, rock outcrops, wooded ravines	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	dry, edible berries



In the Trees section:
Castanea pumila
Cornus alternifolia
Juniperus virginiana
Magnolia virginiana
Malus (Pyrus) coronaria
Quercus ilicifolia
Salix sericea













Trees	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Acer negundo box elder, ash leaf maple, Manitoba maple	Height: 30-60' Spread: 30-60' Flowers: Apr-May, yellow- green Fruit: Jul-Sep, tan brown, winged Fall color: yellow, red	Light: M W Soil pH: 5.2-7 Soil type: C L S	along rivers, streams, ponds, and seasonally flooded areas	Region:M P C States: DC DE MD NY PA VA WV	1	brittle wood; thicket-forming
Acer rubrum red, scarlet, swamp, or soft maple WH SI	Height: 40-100' Spread: 30-75' Flowers: Mar-Apr, (inconspicuous) Fruit: Apr-Jun, red-brown or yellow, winged Fall color:red, orange, yellow	Light: M W Soil pH: 5.4-7.1 Soil type: C L S	swamps, uplands, rocky hillsides, dunes	Region:M P C States: DC DE MD NY PA VA WV	2	earliest spring bloomer; adaptable
Acer saccharinum silver, white, river, or soft maple	Height: 50-100' Spread: 75-100' Flowers: Feb-Mar, greenish yellow Fruit: Apr-May, tan brown, winged Fall color: yellow	Light: M W Soil pH: 5.2-7.1 Soil type: C L S	floodplains, streamsides, river bottoms, pond and lake edges	Region:M P States: DC DE MD NY PA VA WV	100	
Acer saccharum sugar maple	Height: 60-100' Spread: 50-75' Flowers: Apr-May, yellow- green Fruit: Sep-Oct, green, tan at maturity, winged Fall color: yellow, orange red	Soil pH: 4-7.3 Soil type: L S	upland woods, mountain coves and slopes	Region:M P States: DC DE NY PA VA WV	high wildlife value	fall color; maple syrup; state tree of New York and West Virginia
Acer spicatum mountain maple	Height: 20-35' Spread: 20-35' Flowers: May-Jun, yellow green Fruit: Jul-Sep, red or yellow, winged Fall color: orange to red	Light: Moisture: M Soil pH: 5.5-7 Soil type: L	cool rich woods, moist rocky slopes and flats, along small streams	Region:M States: MD NY PA VA WV	high wildlife value	short-lived, strong acid preference
Amelanchier arborea downy serviceberry, shadbush	Height: 15-25' Spread: Flowers: Mar-May, white Fruit: red to dark purple, fleshy Fall color: yellow, red	Light: Moisture: D M Soil pH: 5.5-7.5 Soil type: L S	wooded river banks, swamps, rocky slopes	Region:M States: DC DE MD NY PA VA WV	1	used by 58 wildlife species; 35 bird species; important early summer food; berries edible to people
Amelanchier canadensis serviceberry, shadbush, shadblow	Height: 35-50' Spread: 35-50' Flowers: Apr-May, white Fruit: Jun-Jul, red to purple, fleshy Fall color: orange to red	Light: M W Soil pH: 5.6-7.5 Soil type: C L S	swamps, low ground, woods, thickets	Region:M P C States: DC DE MD NY VA	F 2	
Asimina triloba paw-paw paw-paw	Height: 20-35' Spread: 20-35' Flowers: Apr-Jun, purple Fruit: Aug-Sep, yellow, berry Fall color: yellow/ copper red	Light: M Moisture: M Soil pH: 5.2-7.2 Soil type: L S	river valleys, bottomlands, understory of woods	Region: C States: DC DE MD PA VA WV	P 2	

		Characteristics	Con	ditions		Habitat	Na	ative to	0	Wildlife	Trees
Betula alleghaniensis yellow birch	PLANTS RM	Height: 60-80' Spread: 35-50' Flowers: Apr-May, yellow green Fruit: Jul-Oct, green to tan, cone/cone-like Fall color:golden yellow	Light: Moisture: Soil pH: Soil type:	4.6-8	W S	rich uplands, low swamps, streamsides, elevated floodplain terraces and knobs	Region:M States: N' W	Y PA	MD VA	high wildlife value	fall color; attractive winter texture and color; prefers cool, moist conditions, common on calcareous
Betula lenta sweet birch, black birch, cherry birch	USPWS BES, RHW	Height: 50-75' Spread: 35-50' Flowers: Apr-May, yellow green Fruit: Aug-Nov, green to tan, cone/cone-like Fall color: golden yellow	Light: Hoisture: Soil pH: Soil type:	4.8-6.8	S	steep rocky land and lower	Region:M States: N'	DE Y PA	MD VA	high wildlife value	excellent fall color; prefers moist sites, tolerates dry; colonizes open or disturbed areas
Betula nigra river birch, red birch, black birch	USFWS BES, USFWS BES	Height: 50-75' Spread: 35-50' Flowers: Apr-May, dark brown Fruit: Jun-Aug, tan brown, cone/cone-like Fall color: yellow	Light: Moisture: Soil pH: Soil type:	4-6	W	along streams, rivers, ponds and swamps	Region:M States: Di N' W	C DE Y PA		high wildlife value	attractive peeling bark;
Carpinus caroliniana American hornbeam, musclewood, ironwood	USFWS BES	Height: 13-40' Spread: 35-50' Flowers: Apr-May, red or reddish-green Fruit: Jun-Oct, nut/nut- like Fall color: orange, red	Light: Moisture: Soil pH: Soil type:	M 4-7.4 L	• s	river margins, bottomlands, swamps	Region:M States: Di N' W	C DE Y PA		∌\$ 2	slow growing and short lived
Carya alba (C. tomentosa) mockernut hickory	USDA NRCS	Height: 60-100' Spread: 35-50' Flowers: May-Jun, light green Fruit: Sep-Oct, light reddish brown, nut/nut- like Fall color: yellow	Light: Moisture: Soil pH: Soil type:	D M 6.5-7.4 L	• s	ridges, dry hills, hillsides	Region:M States: D N W	C DE Y PA		∌\$ 2	good fall color
Carya cordiformis bitternut or swamp hickory, pignut		Height: 60-100' Spread: 60-100' Flowers: Apr-May, yellow-green Fruit: Aug-Oct, yellowish green, nut/nut-like Fall color: yellow	Moisture: Soil pH:	6.5-7.4	W S	rich bottomlands, swamps, frequently flooded areas, dry hillsides	Region:M States: D N W	C DE Y PA		ÝŠ J	
Carya glabra pignut, sweet pignut, or smooth bark hickory	CM NRCS	Height: 60-100' Spread: 35-50' Flowers: Apr-May, yellow-green Fruit: Sep-Oct, dark brown, nut/nut-like Fall color: yellow		D M 6.5-7.4 L	W	dry woods on hillsides and ridges	Region:M States: D N W	C DE Y PA		IS I	
Carya ovata shagbark, scalybark, or shellbark hickory	USDA NRCS	Height: 70-100' Spread: 35-50' Flowers: May-Jun, yellow-green Fruit: Sep-Oct, dark or reddish brown, nut/nut-like Fall color: brown	Light: Hoisture: Soil pH: Soil type:	M 4-6.7 L	S	dry upland slopes, lowlands, valleys	Region:M States: Do N' W	C DE Y PA		73 3	attractive peeling bark

Trees	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
astanea pumila ninquapin, astem or Allegany ninkapin	Height: 12-20' Spread: 12-20' Flowers: Jun, pale yellow Fruit: Sep-Oct, dark brown, nut/nut-like Fall color: yellow or purple	Light: D Soil pH: 4.5-7.5 Soil type: L S	rocky slopes, steep rocky land, rocky streambanks, sandy ridges, swamp edges, open woods	Region:M P C States: DC DE MD VA WV	3	sweet, edible fruit
eltis occidentalis ommon hackberry, tigarberry, stitletree	Height: 40-100' Spread: 40-100' Flowers: Apr-May, yellow green, brown tint Fruit: Sep-Dec, purple brown, berry Fall color: yellow	Light: Moisture: D M W Soil pH: 6-7.8 Soil type: C L S	drainage basins, floodplains, wooded slopes, high rocky limestone bluffs bordering streams, windbreaks	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	butterfly larval host; drought tolerant; tolerates occasional flooding; saplings can sprout in deep shade, common on limestone soils
ercis canadensis astern redbud SB 8W NS0 S	Height: 20-35' Spread: 20-35' Flowers: Apr-May, pink to lavender Fruit: Jul-Dec, black, pod Fall color: golden yellow	Light: Moisture: D M Soil pH: 4.5-7.5 Soil type: L S	river bottoms and streambanks	Region:M P C States: DC DE MD PA VA WV	Sin a	fixes nitrogen
hamaecyparis yoides #lantic white cedar The property of the	Height: 75' Spread: Flowers: Mar-Apr, greenish brown Fruit: bluish, cone/cone- like Fall color: evergreen	Light: M W Soil pH: 4.5-5.5 Soil type: C L S	freshwater swamps, woods	Region: C States: DE MD VA		•
hionanthus rginicus MHW Signature WHW Sign	Height: 20-35' Spread: 20-35' Flowers: May-Jun, white Fruit: Sep-Oct, bluish black, berry Fall color: yellow	Light:	moist streambanks, ridges, hillsides in sandy to deep-rich soils	Region:M P C States: DC DE MD VA WV		
ternate-leaf or agoda dogwood	Height: 15-25' Spread: 15-35' Flowers: May-Jun, creamy white Fruit: Jul-Aug, bluish black, berry Fall color: maroon	Light: Moisture: M Soil pH: 5.8-7.5 Soil type: L	dry woods, forest edges, rocky slopes	Region:M States: DE MD NY PA VA WV	high wildlife value	used by 64 wildlife species; 43 bird species; keep root zone moist and acidic; tolerates full sun; young stems often purple
ornus florida owering dogwood Washington and the state of the state o	Height: 20-50' Spread: 20-50' Flowers: Apr-May, white Fruit: Sep-Dec, red to orange, berry Fall color: scarlet red	Light: The Moisture: D M Soil pH: 5-7 Soil type: L	woods, woodland edges and openings, mountain slopes, coves	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	fall migrant birds eat berries; tolerates sun, best in moist, well-drained, acidic soil with organic matter, VA state tree
rataegus rus-galli ockspur hawthom	Height: 20-35' Spread: 20-35' Flowers: May-Jun, white Fruit: Aug-Jan, dull red or green, fleshy Fall color: orange to red	Light: Moisture: D M Soil pH: 4.5-7.2 Soil type: C L S	thickets, open areas, especially in dry or rocky places, low rich slopes		S C	

		Characteristics	Conditions	Habitat	Native to	Wildlife	Trees Notes
Crataegus viridis southern thorn, green hawthorn	PLANTS	Height: 20-35' Spread: Flowers: Apr, white Fruit: bright red to orange, fleshy Fall color: purple, scarlet	Light:	lowlands and valleys	Region: C States: DE MD NY VA	Na.	
Diospyros virginiana common persimmon	PLANTS 1997, PLANTS 1997	Height: 50-75' Spread: 35-50' Flowers: Jun, greenish yellow to cream Fruit: Sep-Nov, orange purple, berry Fall color:yellow or purple	Light: Moisture: D M Soil pH: 5-7 Soil type: C L	open, disturbed areas, deciduous woods	Region:M P C States: DC DE MD PA VA WV	high wildlife value	edible fruits
Fagus grandifolia American beech	CM NRCS, CM NRCS	Height: 50-100' Spread: 50-75' Flowers: Apr-May, yellow-green Fruit: Sep-Nov, orange- green, nut/nut-like Fall color:yellow/ tan; retains leaves till spring	Light: M Moisture: M Soil pH: 4.1-6.5 Soil type: L S	rich uplands and lowlands	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	edible nuts; attractive bark; leaves may persist into winter
Fraxinus americana white ash	UWI KUS	Height: 50-100' Spread: 50-75' Flowers: Apr-May, deep purple Fruit: Aug-Feb, tan brown, winged Fall color: yellow, maroon	Light: M Moisture: M Soil pH: 5-7.5 Soil type: C L S	upland slopes, valleys, coves, bottomlands	Region:M P C States: DC DE MD NY PA VA WV	グラス教	fast growth; fall color
Fraxinus pennsylvanica green ash, red ash swamp ash	, XX IMA	Height: 50-75' Spread: 35-50' Flowers: Apr-May, purple Fruit: Aug-Dec, tan brown, winged Fall color: yellow to orange	Light:	tidal and nontidal freshwater forested wetlands; seasonally to regularly flooded or saturated	Region:M P C States: DC DE MD NY PA VA WV	グ 3 巻	tolerates drought; tolerates infrequent flooding and some salt; male and female flowers on separate plants
llex opaca American holly	USFWS BES	Height: 15-50' Spread: 18-40' Flowers:May-Jun, white or cream Fruit: red, fleshy	Light: M Moisture: M Soil pH: 4-7.5 Soil type: C L	sandy woods	Region:M P C States: DC DE MD VA	*	birds eat berries; state tree of Delaware
Juglans nigra black walnut, American walnut	PLANTS DEH	Height: 70-90' Spread: 75-100' Flowers: May-Jun, yellow-green Fruit: Aug-Sep, yellow- green, nut/nut-like Fall color: yellow	Light: Moisture: M Soil pH: 5.5-8 Soil type: L	woods, slopes, streamsides	Region:M P C States: DC DE MD NY PA VA WV	73	may stunt growth of nearby planst
Juniperus virginiana eastern red cedar	RHW, CM NRCS	Height: 50-75' Spread: 35-50' Flowers: Mar-Apr, red purple Fruit: Jul-Mar, pale green to dark blue, cone/cone-like Fall color: evergreen	Light: \$\frac{1}{2}\$ Moisture: D M Soil pH: 5-8 Soil type: C L S	broad range of habitats	Region:M P C States: DC DE MD NY PA VA WV	7	berries consumed by over 50 species of birds; berries have culinary use

Trees	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
uidambar raciflua eet gum, red n, sap gum	Height: 60-100' Spread: 50-75' Flowers: Apr-May, yellow-green Fruit: Jul-Jan, brown, capsule Fall color: yellow, red	Light: M W Soil pH: 4.5-7 Soil type: C L S	upland woods, slopes, ravines, floodplains, streambanks	Region:M P C States: DC DE MD NY VA	18 J	
odendron pifera to tree, tulip plar, yellow plar	Height: 70-100' Spread: 35-50' Flowers: Jun, greenish yellow Fruit: Aug-Nov, brown, winged Fall color: yellow	Light: Moisture: M Soil pH: 4.5-6.5 Soil type: L S	bottomland woods, mountain coves, lower slopes	Region:M P C States: DC DE MD NY PA VA WV	*	fast growth
gnolia uminata NAT HW, DFT HW, or magnolia	Height: 70-100' Spread: 35-50' Flowers: May-Jun, greenish-yellow Fruit: Sep-Nov, brown cone w/ scarlet seed, pod Fall color:ashy brown	Light: Moisture: M Soil pH: 5.2-7 Soil type: C L S	slopes, ravines, valleys, streamsides	Region:M States: MD NY VA WV	چ	
gnolia giniana eetbay magnolia	Height: 12-30' Spread: 12-30' Flowers: May-Jul, white to cream Fruit: Sep-Oct, red, berry Fall color:semi-evergree	Soil type: C L S	forested wetlands, seeps, stream and pond edges, sandy woods	Region: P C States: DC DE MD VA	∌	semi-evergreen; fragrant flowers; tolerates occasional flooding, some salt
eet crabapple, erican crabapple	Height: 10-30' Spread: 20-30' Flowers: Apr-May, pink to white Fruit: Sep-Oct, greenish, fleshy Fall color:	Light: Moisture: M Soil pH: Soil type: C L S	forest edges, rocky streams, fields	Region:M P C States: DC DE MD PA VA WV	high wildlife value	flowers fragrant; susceptible to insects and diseases; plant at least 5 feet from cedars; attracts bees and wasps; fruit sou
rus rubra mulberry, moral XX	Height: 35-60' Spread: 35-60' Flowers: May-Jun, greenish Fruit: Jun-Jul, red, berry Fall color: yellow	Light: Moisture: M Soil pH: 5-7 Soil type: C L S	floodplains, river valleys, hillsides	Region:M P C States: DC DE MD PA VA WV		fruit sweet
ck gum, rigum, black or amp tupelo	Height: 30-75' Spread: 20-50' Flowers: Apr-Jun, greenish white Fruit: Sep-Oct, blue-black fleshy Fall color:red	Light: D M W Moisture: D M W Soil pH: 4.5-6 Soil type: L S	forested seasonal wetlands, swamp borders, upland woods, dry slopes; seasonally flooded or saturated	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	outstanding fall color
trya virginiana tem hop- nbeam, nwood SM SLNPYd	Height: 25-50' Spread: 20-35' Flowers: May, red-brown Fruit: Jun-Oct, green turning brown, nut/nut- like Fall color: yellow	Light: Moisture: M Soil pH: 4.2-7.6 Soil type: C L S	slopes and ridges	Region:M P C States: DC DE MD NY PA VA WV	i i	leaves may persist into winter

		Characteristics	Conditions	Habitat	Native to	Wildlife	Trees Notes
Pinus echinata shortleaf pine, shortstraw pine, southern yellow pine	BUG RFW	Height: 100' Spread: Flowers: Fruit: reddish brown, cone/cone-like Fall color: evergreen	Light: D M Soil pH: 4.6-6 Soil type: C L S	dry mountain ridges, fields, floodplains	Region:M P C States: DC DE MD VA WV		best used for naturalizing
Pinus rigida pitch pine	CM NRCS	Height: 50-75' Spread: 50-75' Flowers: May, red- purple Fruit: light brown, cone/ cone-like Fall color:evergreen	Light: D Soil pH: 3.5-5.1 Soil type: L S	slopes and ridges of mountains, river valleys, and swamps	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	many birds feed on the seeds; provides winter cover; old trees are fire resistant due to thick bark
Pinus serotina pond pine, marsh pine, pocosin pine	VI	Height: 50-60' Spread: Flowers: Fruit: yellowish brown, cone/cone-like Fall color: evergreen	Light: M W Soil pH: 4.8-6.8 Soil type: L S	swamps, pocosins, bays, pond margins, flatwoods	Region: C States: DE PA VA	high wildlife value	many birds feed on the seeds; provides winter cover
Pinus strobus white pine, Eastern white pine	USDA NRCS	Height: 75-100' Spread: 50-75' Flowers: May-Jul, red to purplish Fruit: Aug-Oct, green to light brown, cone/cone- like Fall color: evergreen	Light: Moisture: D M Soil pH: 4-6.5 Soil type: L	variety of habitats; does best on moist, well drained, sandy loam soils of ridges	Region:M P States: DC MD NY PA VA WV	high wildlife value	many birds feed on the seeds; provides winter cover
Pinus taeda loblolly, old field, or North Carolina pine	USFWS BES	Height: 70-90' Spread: Flowers: Fruit: yellowish, cone/ cone-like Fall color: evergreen	Light:	floodplains fields, slopes	Region: C States: DE MD VA	high wildlife value	many birds feed on the seeds; provides winter cover
Pinus virginiana Virginia pine, scrub pine, Jersey pine	USDANRCS	Height: 50-80' Spread: Flowers: Fruit: reddish brown, cone/cone-like Fall color: evergreen	Light: D M Soil pH: 4.5-7.5 Soil type: C L S	well drained sites; often a pioneer species	Region:M P C States: DC DE MD PA VA WV	high wildlife value	many birds feed on the seeds; provides winter cover
Platanus occidentalis American sycamore, American planetree P1 SLAME SSAM PGSN PGSN PGSN PGSN PGSN PGSN PGSN PGSN		Height: 75-100' Spread: 75-100' Flowers: Apr-Jun, yellow- green Fruit: Aug-Dec, brown, achene (dry, flat seed) Fall color: yellow	Light: M W Soil pH: 4.9-6.5 Soil type: L S	river bottoms, lake shores	Region:M P C States: DC DE MD NY PA VA WV	73	leafs out late spring; showy bark; leaves may persist into winter
Populus deltoides eastern or southern cottonwood, Carolina poplar	Nr Iwu	Height: 75-100' Spread: 50-100' Flowers: Mar-Apr, red Fruit: May-Jul, yellow- green, capsule Fall color: yellow	Light: M W Soil pH: 5.2-7.3 Soil type: C L S	along waterways	Region: P States: DC DE MD NY VA WV	high wildlife value	best used for naturalizing; grows fast but short lived

Trees		Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
eterophylla wamp cottonwood, wamp poplar, lack cottonwood, lowny poplar	VT, PLANTS 1997	Height: 80' Spread: Flowers: Mar Fruit: Apr-May, , capsule Fall color: yellow	Light: W Moisture: W Soil pH: 4.6-5.9 Soil type: C L	swamps and bottomlands	Region: P States: DE MD VA	i s	
runus americana merican wild plum	RHW	Height: 20-35' Spread: 20-35' Flowers: Apr-May, white Fruit: Aug-Sep, orange to red, fleshy Fall color:pale yellow	Light: Moisture: D M Soil pH: 5-7 Soil type: L S	woods, pastures, fencerows, streamsides	Region:M P States: DC DE MD NY PA VA WV	high wildlife value	edible fruit, used for making pies and jellies
runus ensylvanica in cherry, fire herry		Height: 20-35' Spread: 20-35' Flowers: May, white Fruit: Jul-Sep, bright red, fleshy Fall color:yellow	Light: The Moisture: D Soil pH: 4.3-6.6 Soil type: C L S	woods	Region:M States: MD NY PA VA WV	high wildlife value	
ack or wild cherry, ack chokecherry ALL SON NO NO NO NO NO NO NO NO NO		Height: 40-75' Spread: 20-35' Flowers: May-Jun, white Fruit: Aug-Sep, black, fleshy Fall color: yellow/ red	Light: Moisture: D M Soil pH: 5-7.5 Soil type: L	forests, fence rows, fields, forest edges	Region:M P C States: DC DE NY VA WV	high wildlife value	birds eat fruit
runus virginiana noke cherry	RHW	Height: 25-50' Spread: 20-35' Flowers: May-Jun, white Fruit: Aug-Sep, red, black, or yellow, fleshy Fall color:dark red-purple	Light: Moisture: M Soil pH: 5.2-8.4 Soil type: C L S	open moist sites; pioneer species after fires	Region:M States: DC DE MD NY PA VA WV	er.	fast growing, short lived; fruit sometimes used for making jelly
uercus alba hite oak, stave ak SON N		Height: 75-100' Spread: 75-100' Flowers: Mar-May, yellow-green Fruit: Sep-Oct, brown, nut/nut-like Fall color: red	Light: Moisture: D M Soil pH: 4.5-6.8 Soil type: L S	dry to moist woods	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	acorns food for wildlife; majestic; MD state tree; leaves may persist into winter
vamp white oak, avamp oak 851,000 180 180 180 180 180 180 180 180 180		Height: 60-100' Spread: 50-75' Flowers: May, yellow- green Fruit: Sep-Oct, tan brown, nut/nut-like Fall color: red/brown	Light: W Moisture: W Soil pH: 4.3-6.5 Soil type: C L S	bottomlands, swamp and stream edges	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	acorns food for wildlife
uercus coccinea carlet oak, red ak, black oak	CM NRCS	Height: 40-75' Spread: 50-75' Flowers: May-Jun, yellow-green Fruit: Sep-Oct, reddish brown, nut/nut-like Fall color: scarlet	Light: Moisture: D M Soil pH: 4.5-6.9 Soil type: L S	dry uplands and slopes	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	acorns food for wildlife

			-			Trees
	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Quercus falcata southern or swamp red oak, Spanish oak	Height: 70-80' Spread: Flowers: Apr-May Fruit: Oct, orange brown, nut/nut-like Fall color:brown	Light: Moisture: D M Soil pH: 4.8-7 Soil type: C L S	uplands	Region: C States: DC DE MD VA	٠	acoms food for wildlife
Quercus ilicifolia bear oak, scrub oak	Height: 12-20' Spread: 12-20' Flowers: May-Jun, yellow-green or reddish Fruit: Sep-Jan, light brown, nut/nut-like Fall color:yellow, scarlet red to purplish	Light: Moisture: D Soil pH: 4-7.5 Soil type: C L S	barrens, balds, woods, dunes, fields	Region:M P States: PA VA WV	high wildlife value	leaves may persist into winter
Quercus marilandica blackjack oak, Jack oak	Height: 35-50' Spread: 35-50' Flowers: Apr-Jun, yellow-green Fruit: Sep-Oct, tan brown, nut/nut-like Fall color:yellow/brown	Light: Moisture: D Soil pH: 4.6-5.6 Soil type: L S	woods, ridges, slopes, sandy flatwoods	Region: P C States: DC DE MD VA WV	high wildlife value	acorns food for wildlife, leaves may persist into winter
Quercus michauxii (Q. montana) swamp chestnut oak, basket oak, cow oak SUNVI	Height: 50-80' Spread: 75-100' Flowers: May, yellow- green Fruit: Sep-Oct, tan brown, nut/nut-like Fall color:red/ brown	Light: M W Soil pH: 4.5-6.5 Soil type: L	bottomlands, ravine slopes, flatwoods over limestone	Region:M P C States: DE MD NY VA WV	high wildlife value	acorns food for wildlife
Quercus muehlenbergii Chinquapin or chinkapin oak, yellow oak, chestnut oak	Height: 35-50' Spread: 35-50' Flowers: May-Jun, yellow-green Fruit: Sep-Oct, light brown, nut/nut-like Fall color:yellow-brown	Light: Moisture: D M Soil pH: 6.5-8 Soil type: L	rich, woods, uplands, outcrops, dry bluffs, slopes	Region:M P C States: DC MD NY VA WV	high wildlife value	
Quercus nigra water oak	Height: 50-80' Spread: Flowers: Apr-May Fruit: Oct, black, nut/nut- like Fall color: green persists late	Light: M W Soil pH: 4.8-5.8 Soil type: C L	upland woods, bottomlands, hammocks, fields	Region: C States: DC DE MD VA	\$ \$ \$	acorns food for wildlife
Quercus palustris pin oak, swamp oak, Spanish oak	Height: 50-80' Spread: 50-75' Flowers: Apr-May, yellow-green Fruit: Sep-Oct, light brown, nut/nut-like Fall color:red	Light: Moisture: M W Soil pH: 4.5-6.5 Soil type: C L	bottomlands or upland flats	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	popular shade tree; fall color; acoms food for wildlife; leaves may persist into winter
Quercus phellos willow oak, pin oak, peach oak	Height: 80-100' Spread: Flowers: Feb-May Fruit: light yellow or greenish brown, nut/nut-like Fall color:red	Light: M W Soil pH: 4.5-5.5 Soil type: C L	bottomlands, low flatwoods, upland fields	Region: P C States: DC DE MD VA WV	73 3	acorns food for wildlife

Trees	Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
Quercus prinus Q. montana) Chestnut oak, rock bak 1881	Height: 40-80' Spread: Flowers: May-Jun, yellowish Fruit: Sep-Oct, brown, nut/nut-like Fall color: yellow/orange	Light: D Moisture: D Soil pH: 4.5-7 Soil type: L S	rocky ridges and slopes	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	acorns food for wildlife; fall color
Quercus rubra orthem red oak	Height: 90' Spread: Flowers: Apr-May Fruit: scales reddish- brown, nut/nut-like Fall color: red or yellow	Light: Moisture: D M Soil pH: 4.3-6.5 Soil type: C L	slopes, coves, and drier ridges	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	acorns food for wildlife; hardy and long-lived; fall color
Quercus stellata nost oak, iron oak	Height: 35-50' Spread: 35-50' Flowers: Apr-Jun, yellow- green Fruit: Sep-Oct, light brown to almost black, nut/nut-like Fall color: brown	Light: Moisture: D M Soil pH: 4.8-7 Soil type: C L S	upland dry ridges to moist flatwoods	Region:M P C States: DC DE MD VA WV	high wildlife value	acoms food
Quercus velutina plack oak, yellow park oak, quercitron pak MR 0 90	Height: 75-100' Spread: 75-100' Flowers: Apr-May, yellow-green Fruit: Sep-Oct, light red- brown, nut/nut-like Fall color: red/brown	Light: Moisture: D M Soil pH: 4.5-6 Soil type: C L S	dry upland ridges and slopes, flatwoods	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	acorns food for wildlife; leaves may persist into winter
ialix nigra llack willow, wamp willow	Height: 35-50' Spread: 20-35' Flowers: Mar-Apr, yellow green Fruit: Apr-May, green yellow, cone/cone-like Fall color: yellow green	Light: M W Soil pH: 6-8 Soil type: C L S	fresh tidal marshes and swamps, forested wetlands, floodplains, wet meadows; seasonally to regularly flooded or saturated	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	streambank stabilizer; spreads by suckers; preferred food of ruffed grouse and pine grosbeak; tolerates flooding; tolerates salinity to 0.5 ppt
Salix sericea iilky willow	Height: 12' Spread: Flowers: Jun-Jul Fruit: Fall color:yellow	Light: M W Soil pH: 5.2-7 Soil type: C L S	marshes, ditches, low woods	Region:M P States: DC DE MD NY PA VA WV	high wildlife value	
Sassafras albidum assafras MHZ 'S3R SM-NA' S3R SM-NA' S	Height: 35-50' Spread: 35-50' Flowers: Apr, yellow- green Fruit: Sep-Oct, dark blue, fleshy Fall color:yellow, orange, purple	Light: Moisture: D M Soil pH: 4.5-7.2 Soil type: L S	moist, open woods	Region:M P C States: DC DE MD NY PA VA WV	high wildlife value	edible and medicinal uses; provides spring and fall color
Sorbus americana Pyrus americana) American mountain ash	Height: 30-40' Spread: Flowers:May-Jul, white Fruit: Aug-Dec, orange, fleshy Fall color:orange, purple	Light: Moisture: M Soil pH: 5.3-6.8 Soil type: C L S	areas from borders of swamps to rocky hillsides; openings, uplands along forest edges, roadsides	Region:M States: MD VA WV	high wildlife value	slow-growing, short-lived; not drought or heat tolerant; plant at least 500 feet from cedars

	Charactaristica	Conditions	Habitat	Native to	Mildlifa	Trees
Taxodium distichum S3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Characteristics Height: 50-100' Spread: 20-35' Flowers: Mar-Apr, deep purple Fruit: Oct-Dec, brown, cone/cone-like Fall color: purple to brown	Conditions Light: W Moisture: W Soil pH: 4.5-6 Soil type: C L S	pond margins,	egion: C ates: DE MD VA	Wildlife	Notes deciduous conifer
Thuja occidentalis arborvitae, northern swhite cedar SBR SWASP	Height: 50-75' Spread: 35-50' Flowers: May, red brown Fruit: Aug-Dec, reddish- brown, cone/cone-like Fall color: evergreen	Light: M W Soil pH: 5.2-7 Soil type: C L S		egion:M ates: NY VA	13 2	prefers wet calcareous areas
Tilia americana American basswood, linden	Height: 70-100' Spread: 50-75' Flowers: Jun-Jul, yellow Fruit: Sep-Oct, tan brown, winged Fall color: yellow or brown	Light: M Moisture: M Soil pH: 4.5-7.5 Soil type: L S		egion:M lates: DC DE MD NY PA VA WV	æ 7 3 ∰	fragrant flowers; important pollen source for honey
Tsuga canadensis eastern hemlock	Height: 75-100' Spread: 35-50' Flowers: May-Jun, tan brown Fruit: Sep-Jan, light brown, cone/cone-like Fall color: evergreen	Light: Moisture: M Soil pH: 4.2-5.7 Soil type: L S		egion:M P ates: DE MD NY PA VA WV	high wildlife value	susceptible to wooly adelgid and red spider mite; also T. caroliniana for VA
Ulmus americana American elm, white elm, soft elm	Height: 75-100' Spread: 75-100' Flowers: Mar-Apr, red brown Fruit:May, tan brown, winged Fall color:bright yellow	Light: W W Soil pH: 5.5-8 Soil type: C L S	swamps, disturbed	egion:M P C ates: DC DE MD NY PA VA WV	high wildlife value	Dutch elm disease caused decline; distinctive vase shape; favorite nesting site of Baltimore oriole
Ulmus rubra slippery elm, red elm, soft elm Magama	Height: 70' Spread: Flowers: Mar-May Fruit: winged Fall color: yellow	Light:	bottomlands, drier	egion: P ates: DC DE MD NY PA VA WV	high wildlife value	

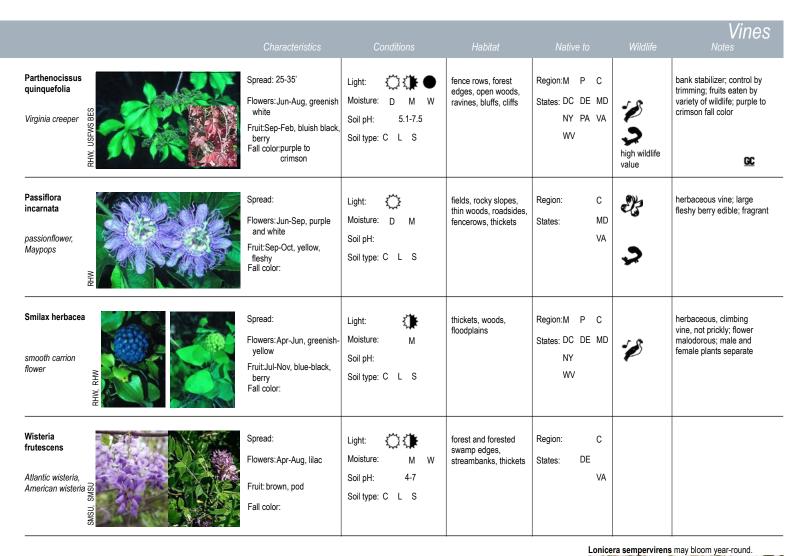
In the *Shrubs* section:
Hamamelis virginiana
Morella (Myrica) cerifera
Rhododendron maximum
Rhus copallina, hirta (typhina)
Viburnum prunifolium







Vines		Characteristics	Conditions	Habitat	Native to	Wildlife	Notes
uristolochia nacrophylla A. durior) ipevine, outchman's pipe	RHW	Spread: Flowers: May-Jun, yellowish to purplish Fruit: green to brown, pod Fall color: yellow green	Light: Moisture: M Soil pH: 6.1-8.5 Soil type: L O	rich woods, streambanks	Region:M States: VA WV	S.	occasionally escapes from cultivation; host for pipevine swallowtail butterfly
ignonia apreolata rossvine	USFWS BES	Spread: 20-35' Flowers:May-Jun, orange with red Fruit: Aug-Oct, brown, pod Fall color: semi-evergreen; reddish-purple	Light: Moisture: D M W Soil pH: 6.1-8.5 Soil type: C L S	swampy forests, calcareous river banks, cliffs, dry open woods, bogs, fence rows, rock outcrops	Region: C States: MD VA	3	spreads across ground and climbs any structure it meets (control by cutting); semi-evergreen
ampsis radicar umpet vine, umpet creeper	IS SES SES SES SES SES SES SES SES SES S	Spread: 20-35' Flowers: Jul-Sep, orange Fruit: Aug-Mar, brown, pod Fall color: yellow green	Light: Moisture: D M Soil pH: 6.1-7.5 Soil type: C L S	moist woods, fence rows, roadside thickets, floodplain forests, rocky hillsides, open woods, streambanks, fields	Region:M P C States: DC DE MD PA VA	X	thick, twisted, aged woody vines; leaves/flowers may cause dermatitis (skin irritation)
elastrus candens merican ittersweet	PLANTS TGB. UWI DK	Spread: 6-20' Flowers:May-Jun, greenish Fruit:Sep-Dec, orange and red, capsule Fall color: yellow	Light: D M Soil pH: 6.1-7.5 Soil type: C L S	roadsides, forest edges, fence rows, pastures, hedges, bluffs, rocky slopes, dunes, sandy oak woods	Region:M P C States: DC DE MD NY PA VA WV	19	distinguished from nonnativinvasive Oriental bitterswee by flowers/fruits in clusters at ends of twigs
lematis viorna ather flower, asevine	RHW	Spread: Flowers:May-Aug, purple Fruit: Aug-Nov, dark brown, achene (dry, flat seed) Fall color:	Light: Moisture: D M Soil pH: Soil type:	rich wooded banks, thickets	Region: P States: DC DE MD VA WV		feathery seeds
ematis rginiana rgin's bower	USFWS BES	Spread: 6-12' Flowers: Jul-Sep, white Fruit: Aug-Nov, brown, achene (dry, flat seed) Fall coloryellow, green or purplish	Light: D M Soil pH: 6.1-8.5 Soil type: C L S O	fencerows, riverbanks, thickets, woods edge, roadside swales, swamps, overhanging cliffs	Region:M P C States: DC DE MD NY PA VA WV		fragrant flowers; feathery seeds; young plants can be transplanted; yellow, green or purplish fall color
onicera empervirens umpet or coral oneysuckle	RHW, USFWS BES	Spread: 6-12' Flowers:Apr-Oct, coral to red with yellow Fruit: Aug-Mar, red, berry Fall color: semi-evergreen	Light: Moisture: D M Soil pH: 6.1-7.5 Soil type: C L S	thickets, fence rows, open woods, dry stony woods, forest edges, cliffs	Region:M P C States: DC DE MD NY VA	が失う強	flowers intermittently until frost; flowers/fruits present together; transplants well; may have aphids - hose off, snip new growth and damaged buds; semi-evergreen
ikania scander imbing hempvin		Spread: Flowers:Jun-Oct, pink or whitish Fruit: blue Fall color:	Light: Moisture: M W Soil pH: 5.7-7.5 Soil type: C L	swamps, thickets	Region:M P C States: DC DE MD NY VA		vines herbaceous, not woody



In the Herbaceous Plants section: Clitoria mariana

Characteristic pipe-shaped flower of Aristolochia macrophylla.









Plants With a Purpose

This section includes lists of plant combinations that can be used to mimic the natural communities of plants found in wetlands, meadows, forests, etc. They can be used to create, restore or enhance existing habitat for wildlife. Also included are plants that can be used in solving problems such as stabilizing soils, or for specific landscaping uses. No matter what the purpose, it is imperative that species are chosen to suit planting site conditions and the physiographic location of the site. None of these lists are complete – there are additional suitable plants in this guide (and even more native species not included in this publication) that would suit these purposes. This document is intended to give project planners guidance in choosing appropriate plants for various projects, and additional learning is encouraged. For the most ecologically "correct" habitat restoration projects, consultation with professionals is recommended, as there are other factors to consider that are not addressed here.

Plants For Coastal Dunes

Note: the shrubs and trees listed would occur on the inner or secondary dunes and/or on interdunal swales.

Grasses and Grasslike Plants

Ammophila breviligulata
Panicum amarum (and var. amarulum)
Spartina patens
Panicum virgatum

Herbaceous Plants

Baptisia tinctoria Liatris pilosa v. pilosa (graminifolia) Nuttallanthus canadensis (Linaria canadensis) Opuntia humifusa (compressa) Oenothera biennis Solidago sempervirens Yucca filamentosa (flaccida)

Shrubs

Baccharis halimifolia Morella (Myrica) cerifera, pensylvanica Prunus maritima Rhus copallina Rosa carolina

Trees

Acer rubrum Amelanchier arborea Diospyros virginiana Juniperus virginiana Pinus rigida Prunus pensylvanica, serotina

Vines

Celastrus scandens Parthenocissus quinquefolia

Plants For Saltwater or Brackish Water Marshes

Plants in this list can be used for marsh plantings or to stabilize tidal fresh, brackish or saltwater shorelines based on salinity and wetness tolerances. Check the salinity and moisture requirements given in this publication for each plant, so they will be planted in the appropriate conditions. Those species for use in salinity greater than 15 ppt are marked (*).

Grasses and Grasslike Plants

Ammophila breviligulata *

Distichlis spicata *
Juncus canadensis
Juncus roemerianus *
Panicum amarum (and var. amarulum) *
Panicum virgatum
Schoenoplectus pungens v. pungens (Scirpus pungens, americanus)
Schoenoplectus (Scirpus) validus
Spartina alterniflora *
Spartina cynosuroides
Spartina patens *
Spartina pectinata

Note: Although grasslike, *Distichlis, Juncus, Schoenoplectus*, and *Spartina* species information can be found in the Herbaceous Emergents section of the guide.

Herbaceous Plants

Agalinus purpurea Limonium carolinianum Solidago sempervirens *

Herbaceous Emergents

Hibiscus moscheutos (palustris) Iris prismatica, versicolor, virginica Kosteletzkya virginica Peltandra virginica Pontederia cordata

Shrubs

Baccharis halimifolia *
Iva frutescens *
Morella (Myrica) cerifera *, pensylvanica *

Plants for Freshwater Wetlands and Other Wet Sites

The following plants may be used to create or enhance freshwater marshes or swamps or to stabilize and enhance streambanks, riverbanks or pond edges.

Remember to match the plants' growth requirements with the site conditions. Wetness tolerated by these plants is provided in this guide in terms of frequency and duration of soil saturation or inundation (flooding), and depth of standing water.

Ferns

Athyrium filix-femina

Dryopteris carthusiana (spinulosa), cristata,

intermedia Onoclea sensibilis

Osmunda cinnamomea, regalis

Pteridium aquilinum

Thelypteris noveboracensis, palustris Woodwardia areolata, virginica

Grasses and Grasslike Plants

Agrostis perennans

Andropogon gerardii, glomeratus, virginicus

Calamagrostis canadensis

Carex crinita var. crinita, lurida, stricta,

vulpinoidea

Dichanthelium clandestinum

Elymus riparius Festuca rubra Leersia oryzoides

Panicum virgatum

Saccharum giganteum (Erianthus giganteus)

Tripsacum dactyloides

Herbaceous Plants

Arisaema triphyllum Asclepias incarnata

Caltha palustris

Chelone glabra

Conoclinium (Eupatorium) coelestinum

Doellingeria umbellata var. umbellata (Aster

umbellatus)

Eupatorium dubium, perfoliatum

Gentiana clausa

Helianthus angustifolius

Heracleum maximum (lanatum) Impatiens capensis (biflora)

Lobelia cardinalis, siphilitica

Mertensia virginica Mimulus ringens

Monarda didyma

Packera aurea (Senecio aureus)

Phlox maculata Rudbeckia laciniata Saxifraga pensylvanica

Scutellaria integrifolia

Sisyrinchium atlanticum

Spiranthes cernua

Stachys tenuifolia (hispida)

Symphyotrichum (Aster) novae-angliae, novibelgii

Symplocarpus foetidus

Thalictrum pubescens (polygamum)

Veratrum viride

Verbena hastata

Vernonia noveboracensis

Veronicastrum virginicum (Veronica virginica)

Viola conspersa, cucullata, striata

Herbaceous Emergents

Dulichium arundinaceum

Hibiscus moscheutos (palustris)

Iris prismatica, versicolor, virginica

Juncus effusus

Justicia americana

Nuphar lutea (advena)

Nymphaea odorata

Orontium aquaticum

Peltandra virginica

Pontederia cordata

Sagittaria latifolia

Saururus cernuus

Schoenoplectus (Scirpus) validus

Scirpus atrovirens, cyperinus

Sparganium americanum

Spartina pectinata

Zizania aquatica

Shrubs

Alnus serrulata

Cephalanthus occidentalis

Clethra alnifolia

Cornus amomum

Gaylussacia baccata, frondosa

Hypericum densiflorum

llex verticillata

Itea virginica

Kalmia angustifolia, latifolia

Leucothoe racemosa

Lindera benzoin

Lyonia ligustrina

Morella (Myrica) caroliniensis (heterophylla),

cerifera, pensylvanica

Photinia (Aronia) melanocarpa, pyrifolia

(arbutifolia)

Physocarpus opulifolius

Rhododendron maximum, periclymenoides,

viscosum

Rosa palustris

Rubus allegheniensis

Salix humilis

Sambucus nigra ssp. canadensis (S.

canadensis)

Spiraea alba v. latifolia (latifolia), tomentosa

Vaccinium corymbosum, macrocarpon

Viburnum dentatum (recognitum), nudum,

nudum v. cassinoides (cassinoides),

prunifolium

Trees

Acer negundo, rubrum, saccharinum

Amelanchier canadensis

Betula alleghaniensis, nigra

Carpinus caroliniana

Carya cordiformis, glabra

Celtis occidentalis

Chamaecyparis thyoides

Crataegus viridis

Fraxinus pennsylvanica

Liquidambar styraciflua

Magnolia virginiana

Nyssa sylvatica Pinus serotina, strobus, taeda

Platanus occidentalis

Populus deltoides, heterophylla

Quercus bicolor, michauxii (montana), nigra,

palustris, phellos

Salix nigra, sericea

Taxodium distichum

Thuia occidentalis

Tsuga canadensis

Ulmus americana

Vines

Bignonia capreolata Mikania scandens

Parthenocissus auinquefolia

Wisteria frutescens

Plants Appropriate for Bogs or Bog Gardens

Ferns

Athyrium filix-femina Onoclea sensibilis Osmunda cinnamomea Thelypteris noveboracensis , palustris Woodwardia areolata

Grasses and Grasslike Plants

Calamagrostis canadensis Carex stricta Leersia oryzoides

Herbaceous Plants

Arisaema triphyllum Caltha palustris Chelone glabra

Doellingeria umbellata var. umbellate (Aster

umbellatus)

Eupatorium dubium, perfoliatum

Eupatonum dubium, perioliat Gentiana clausa Saxifraga pensylvanica Scutellaria integrifolia Spiranthes cernua Symplocarpus foetidus Veratrum viride Viola cucullata

Herbaceous Emergents

Dulichium arundinaceum Juncus effusus Orontium aquaticum Sagittaria latifolia Scirpus atrovirens, cyperinus Sparganium americanum

Shrubs

Clethra alnifolia
Gaultheria procumbens
Hypericum densiflorum
Kalmia angustifolia
Morella caroliniensis (Myrica heterophylla)
Photinia (Aronia) melanocarpa, pyrifolia
(arbutifolia)
Rhododendron viscosum
Salix humilis
Spiraea alba, alba v. latifolia (latifolia)
Spiraea tomentosa
Vaccinium corymbosum, macrocarpon
Viburnum dentatum (recognitum), nudum,

nudum v. cassinoides (cassinoides)

Lespedeza capitata

Trees

Acer rubrum Chamaecyparis thyoides Nyssa sylvatica

Vines

Bignonia capreolata

Plants for Dry Meadows

Grasses and Grasslike Plants

Andropogon gerardii
Danthonia spicata
Elymus canadensis, riparius, virginicus
Schizachyrium scoparium (Andropogon
scoparius)
Sorghastrum nutans
Tridens flavus

Herbaceous Plants

Ageratina altissima v. altissima (Eupatorium rugosum)
Antennaria neglecta
Asclepias syriaca, tuberosa
Chamaecrista (Cassia) fasciculata
Conoclinum (Eupatorium) coelestinum
Coreopsis tripteris, verticillata
Desmodium paniculatum
Dodecatheon meadia
Erigeron pulchellus
Eupatorium hyssopifolium, purpureum
Heliopsis helianthoides
Ionactis (Aster) linariifolius

Liatris spicata, squarrosa
Lupinus perennis
Monarda bradburiana (fistulosa), punctata
Nuttallanthus (Linaria)canadensis
Oenothera biennis, fruticosa, perennis
Penstemon digitalis
Pycnanthemum incanum
Rudbeckia fulgida, hirta, triloba
Solidago canadensis, canadensis v. scabra
(altissima), juncea, nemoralis, speciosa
Symphyotrichum (Aster) cordifolius, ericoides
var. ericoides, laeve var. laeve (laevis),
novae-angliae

Shrubs

Note: Listed are a few of the shorter shrubs that may appear in or at the edges of meadows. Using shrubs in a planting that is to remain as a meadow is not recommended, as they provide perching spots for birds, whose droppings will seed in unwanted plants, including trees. If the meadow is to be allowed to succeed eventually to forest, then adding shrubs is one prescribed method.

Ceanothus americanus Comptonia peregrina Rhus glabra Rosa carolina Rubus allegheniensis

Plants for Wet Meadows

Ferns

Onoclea sensibilis Osmunda cinnamomea Thelypteris palustris

Grasses and Grasslike Plants

Andropogon gerardii, virginicus Calamagrostis canadensis Carex glaucodea, stricta Elymus riparius Leersia oryzoides Panicum virgatum Tripsacum dactyloides

Herbaceous Plants

Agalinis purpurea
Asclepias incarnata
Caltha palustris
Doellingeria umbellata var. umbellata (Aster umbellatus)
Gentiana clausa

Eupatorium fistulosum, maculatum, perfoliatum Helenium autumnale

Impatiens capensis (I. biflora)

Lilium canadense, superbum

Lobelia cardinalis, siphilitica

Mimulus ringens

Packera aurea (Senecio aureus)

Phlox maculata

Rudbeckia laciniata

Sabatia angularis

Scutellaria integrifolia

Silphium perfoliatum

Sisyrinchium atlanticum

Solidago rugosa

Spiranthes cernua

Stachys tenuifolia (hispida)

Symphyotrichum (Aster) novi-belgii

Thalictrum pubescens (polygamum)

Verbena hastata

Viola conspersa

Viola striata

Herbaceous Emergents

Iris prismatica, versicolor, virginica Juncus effusus Scirpus atrovirens, cyperinus Spartina pectinata

Shrubs

Note: Listed are a few of the shorter shrubs that may appear in or at the edges of meadows. Using shrubs in a planting that is to remain as a meadow is not recommended, as they provide perching spots for birds, whose droppings will seed in unwanted plants, including trees. If the meadow is to be allowed to succeed eventually to forest, then adding shrubs is one prescribed method.

Cephalanthus occidentalis llex verticillata Rhododendron viscosum Rosa palustris Spiraea tomentosa

Plants for Forest or Woodland Plantings

Forests contain a diversity of plant types arranged in vertical layers, from the tallest (canopy or overstory) trees, through the understory of shorter trees and shrubs, to the forest floor or ground layer of low shrubs and herbaceous plants. Forest types are classified by the dominant trees present (e.g., oakhickory-pine forest). Plant species occurring together in these different forest types are a function of the climate, altitude, geology and physiographic location, soil type, moisture, sunlight, and other conditions. So many combinations of plants occur in these different forests that space limitations prevent listing them all. Instead, the following represent plants found in a few of the more common forest types in the Chesapeake Bay watershed. These lists provide the basis for a viable forest or woodland project. Common ferns, grasses and herbaceous plants for the ground layer are listed separately, as they may occur in many of the forest types in various combinations. Remember to match the plants' growth requirements with the site conditions.

For new projects at open sites, it may take years for young trees to provide adequate shade. Consult other restoration resources and/or professionals for alternative methods

of developing the ground layer, and for more comprehensive forest community information.

Forest Types, Basic Structure

Oak-Mixed Forest (Coastal Plain) Canopy trees for well-drained sites

Carva cordiformis, tomentosa

Quercus alba, falcata, marilandica, phellos, prinus, stellata, velutina

Pinus species, occasional intermixed with the above

Canopy trees for moist sites

Acer rubrum

Fagus grandifolia

Quercus bicolor, michauxii, nigra, palustris, phellos

Liquidambar styraciflua Liriodendron tulipifera

Nyssa sylvatica

Understory trees

Asimina triloba Cercis canadensis Cornus florida Ilex opaca Magnolia virginiana

Understory shrubs

Comptonia peregrina

Gaylussacia frondosa

llex glabra

Kalmia angustifolia, latifolia

Morella (Myrica) cerifera, pensylvanica

Vaccinium pallidum (vacillans), stamineum

Viburnum dentatum (recognitum), prunifolium

Pine Forest (Coastal Plain)

Overstory trees

Pinus taeda, virginiana, rigida (occasional)

Understory trees

llex opaca

Sassafras albidum

Understory shrubs

Clethra alnifolia Morella (Myrica) cerifera, pensylvanica Rhus copallina **Oak-Hickory Forest** (Piedmont and Mountain, occasional on Coastal Plain)

Dominant overstory trees

Carya cordiformis, ovata

Quercus alba, prinus, rubra, velutina

Other trees

Amelanchier arborea, canadensis Carya alba, glabra, tomentosa

Celtis occidentalis Cercis canadensis Cornus florida

Crataegus viridis

Fraxinus Americana

Juglans nigra Prunus serotina

Quercus coccinea, falcata, lyrata,

marilandica,

muhlenbergii, stellata

Sassafras albidum

Tilia americana

Ulmus Americana

Additional trees for more moist sites

Acer rubrum

Liquidambar styraciflua Liriodendron tulipifera Ulmus americana

Shrubs

Kalmia latifolia

Vaccinium angustifolium, corymbosum, pallidum (vacillans), stamineum Viburnum acerifolium

Red Oak - Mixed Hardwood Forest

(Piedmont)

Dominant overstory trees

Acer rubrum

Carya ovata, tomentosa

Betula alleghaniensis (lutea), lenta

Fraxinus americana
Fagus grandifolia
Liriodendron tulipifera
Quercus alba, rubra, velutina

Pinus strobus*

Tsuga canadensis*

* These would be in the Hemlock-White Pine-Red Oak-Mixed Hardwood Forest (Piedmont and Mountain regions).

Understory trees and shrubs

Amelanchier species Carpinus caroliniana Hamamelis virginiana Lindera benzoin

Viburnum acerifolium, dentatum (recognitum)

Hemlock-White Pine Forest (Mountain) Dominant overstory trees

Acer saccharum

Betula alleghaniensis (lutea)

Fagus grandifolia Pinus strobus Tilia americana Tsuga canadensis

also *Picea* rubens (red spruce, not included in this guide, but native in the Bay watershed in mountain region)

Other trees

Acer rubrum
Betula lenta
Liriodendron tulipifera
Quercus rubra, velutina

Shrubs

Hamamelis virginiana Rhododendron maximum Viburnum acerifolium

Mixed Mesophytic Forest (Mountain)

These forests are relicts of ancient mesic (moist) broadleaf deciduous forests. They can be very diverse.

Dominant overstory trees

Acer saccharum
Betula lenta
Carya ovata
Carpinus caroliniana
Fagus grandifolia
Fraxinus americana
Juglans nigra
Liriodendron tulipifera
Magnolia acuminata
Prunus serotina
Quercus rubra
Tilia americana

Understory trees and shrubs

Cercis canadensis Hamamelis virginiana Hydrangea arborescens Lindera benzoin Rhododendron maximum

Staphylea trifolia

Woodland Floor or Ground Layer Plants

These plants can also be used for gardens in or adjacent to wooded areas. Refer to specific habitat and growing conditions to match plants in appropriate groupings.

Ferns

All species included in this guide occur in woodlands.

Grasses and Grasslike Plants

Agrostis perennans Andropogon gerardii

Carex crinita var. crinita, glaucodea, lurida,

pensylvanica, vulpinoidea Chasmanthium latifolium Danthonia spicata

Dichanthelium clandestinum, commutatum

Elymus hystrix (Hystrix patula)

Festuca rubra Panicum virgatum

Saccharum giganteum (Erianthus giganteus)

Schizachyrium scoparium (Andropogon

scoparius)

Sorghastrum nutans

Tridens flavus

Tripsacum dactyloides

Herbaceous Plants

Actaea pachypoda

Ageratina altissima v. altissima (Eupatorium rugosum)

Aquilegia canadensis

Aralia nudicaulis, racemosa

Arisaema triphyllum Aruncus dioicus

Asarum canadense

Campanulastrum americanum (Campanula americana)

Cardamine concatenata (Dentaria laciniata)

Caulophyllum thalictroides

Chelone glabra
Chimaphila maculata
Chrysogonum virginianum
Cimicifuga racemosa
Claytonia virginica
Delphinium tricorne

Dicentra canadensis, cucullaria, eximia

Erythronium americanum

Eurybia divaricata (Aster divaricatus)

Geranium maculatum Helenium autumnale Helianthus divaricatus Heliopsis helianthoides

Hepatica nobilis var. acuta (acutiloba), var.

obtusa (americana)

Heracleum maximum (lanatum) Heuchera americana, villosa

(continued)

Hydrophyllum virginianum Impatiens capensis (biflora) Ionactis (Aster) linariifolius Jeffersonia diphylla

Liatris scariosa

Lilium canadense, philadelphicum Maianthemum canadense, racemosum

(Smilacina racemosa) Medeola virginiana Melanthium virginicum Mertensia virginica Mitchella repens Mitella diphylla Monarda didyma Osmorhiza longistylis Oxalis violacea

Packera aurea (Senecio aureus)

Penstemon laevigatus

Phlox carolina, divaricata, stolonifera

Podophyllum peltatum Polemonium reptans

Polygonatum biflorum, pubescens

Sanguinaria canadensis

Saxifraga pensylvanica, virginiensis

Scutellaria integrifolia Sedum ternatum

Silene caroliniana, stellata, virginica Solidago caesia, flexicaulis, rugosa

Stachys tenuifolia (hispida)

Stellaria pubera

Thalictrum dioicum, pubescens (polygamum),

thalictroides (Anemonella t.)

Tiarella cordifolia

Tradescantia virginiana

Trillium erectum, grandiflorum, sessile,

undulatum

Uvularia grandiflora, perfoliata, sessilifolia

Veratrum viride

Viola conspersa, hastata, pubescens

(pennsylvanica), sororia (papilionacea), striata

Zizia aurea

Vines

Any of the vines included in this guide may be found in woodlands, occupying various vegetative layers, from the ground up.

Solutions for Slopes

Slopes of any kind are prone to erosion from rain, runoff; wave action, stream or river currents, and foot or lawnmower traffic. Plants with deep, spreading root systems help prevent erosion by holding soil in place. Some plants that are particularly well suited to and recommended for holding or stabilizing soils on a dry upland slope or hillsides such as a sloping yard or road embankment are listed below.

However, any plant suited to the site's sun, soil, and moisture conditions that could be planted on a flat surface could be planted on a slope, as long as the slope is accessible. Plants that naturally occur on slopes or hillsides can be found by searching the "habitat" notes provided with each plant in this guide.

For plants to use on a tidal shoreline, see the list of saltmarsh or freshwater marsh plants. For plants to use on a stream, pond or riverbank, see the list of freshwater marsh plants.

Plants That Provide Stabilization on Dry, Sunny Slopes or Hillsides

Grasses & Grasslike Plants

Ammophila breviligulata Andropogon gerardii Dichanthelium clandestinum Elvmus canadensis Panicum virgatum Panicum amarum Schizachyrium scoparium

Herbaceous Plants

Any of the herbaceous plants that thrive in a sunny, dry site tend to be deep-rooted and would provide good slope stabilization. See the dry meadow plants list on for additional choices.

Baptisia tinctoria Lespedeza capitata Chamaecrista (Cassia) fasciculata

Shrubs

Comptonia peregrina Ceanothus americanus Clethra alnifolia Cornus racemosa Gaylussacia baccata, frondosa Hypericum densiflorum Kalmia latifolia Morella pensylvanica

Physocarpus opulifolius Rhus aromatica

Rhus copallina Rhus glabra Rosa carolina

Rubus allegheniensis Vaccinium angustifolium

Viburnum acerifolium

Trees

The following are some of the tree species that may occur on slopes. However, for stabilization purposes, practitioners recommend planting herbaceous plants and shrubs, as trees will appear in time through succession.

Acer rubrum, saccharum, spicatum Amelanchier arborea Betula lenta Carya alba (tomentosa), cordiformis, glabra, ovata

Castanea pumila Celtis occidentalis Chionanthus virginicus Cornus alternifolia, florida Crataegus crus-galli Fraxinus americana Juglans nigra Liquidambar styraciflua Liriodendron tulipifera Magnolia acuminata Morus rubra Nyssa sylvatica Ostrya virginiana Pinus rigida, taeda

Quercus coccinea Quercus marilandica, michauxii, muehlenbergii, prinus, rubra, velutina

Sorbus (Pyrus) americana

Ulmus rubra

Vines

Campsis radicans Celastrus scandens Passiflora incarnata Parthenocissus quinquefolia

Evergreens

Ferns

Asplenium platyneuron Dryopteris carthusiana (spinulosa), cristata, intermedia, marginalis Polystichum acrostichoides

Herbaceous Plants

Asarum canadense Goodyera pubescens Heuchera americana Mitchella repens Phlox carolina, stolonifera, subulata Sedum ternatum Silene caroliniana Solidago sempervirens Yucca filamentosa (flaccida)

Shrubs

Gaultheria procumbens
Ilex glabra
Kalmia angustifolia, latifolia
Morella (Myrica) caroliniensis (heterophylla),
cerifera
Rhododendron maximum
Vaccinium macrocarpon

Trees

Chamaecyparis thyoides Ilex opaca Juniperus virginiana Magnolia virginiana Pinus any species in this guide Thuja occidentalis Tsuga canadensis

Vines

Bignonia capreolata Lonicera sempervirens

Plants to use as Groundcovers

Ferns

Any species in this guide

Grasses and Grasslike Plants

Carex glaucodea, pensylvanica Danthonia spicata Festuca rubra

Herbaceous Plants

Aquilegia canadensis
Asarum canadense
Chimaphila maculata
Chrysogonum virginianum
Chrysopsis mariana
Coreopsis verticillata

Erigeron pulchellus

Eurybia divaricata (Aster divaricatus)

Geranium maculatum

Hepatica nobilis var. acuta (acutiloba), nobilis

var. obtusa (americana) Heuchera americana, villosa

Hylotelephium (Sedum) telephioides

Maianthemum canadense

Mitchella repens

Opuntia humifusa (compressa)

Oxalis violacea

Phlox carolina, stolonifera, subulata

Podophyllum peltatum Polemonium reptans Sedum ternatum Silene caroliniana Tiarella cordifolia Uvularia sessilifolia

Viola conspersa, cucullata, hastata, pedata

Shrubs

Gaultheria procumbens Vaccinium angustifolium, macrocarpon Vaccinium pallidum (vacillans)

Vines

Bignonia capreolata Campsis radicans Celastrus scandens Parthenocissus quinquefolia

Plants for Spring and Fall Color

A search through this guide will reveal literally hundreds of plants of all types that will flower or fruit in spring or fall, providing a wide variety of choices to color a native landscaping project and to offer a diversity of food for wildlife. Remember to consider trees, shrubs and vines when choosing plants for their flower color; and to include fruit color in the palette. The fall color of many plants, particularly grasses, trees, shrubs and vines adds interest to the landscape. A landscape planned for seasonal color, throughout *all* seasons of the year, can also provide year-round food, cover and nesting structure for wildlife.

Deer Resistant Plants

Gardeners challenged by browsing deer often look for a definitive list of plants that deer will leave alone. Unfortunately, deer are not quite that predictable. In areas where high populations of deer have over-browsed the woodland understory, they are likely to eat any plant they can find to survive. Gardeners and habitat restorationists are strongly encouraged to use other appropriate barriers to exclude deer, in consultation with a local wildlife agency. Plants marked with an asterisk (*) may be browsed occasionally.

The list below was compiled from Bowman's Hill Wildflower Preserve and Deer Proofing Your Yard (Hart), see references.

Grasses and Grasslike Plants

Andropogon gerardii Panicum virgatum

Herbaceous Plants

Actaea pachypoda Allium cernuum Aquilegia canadensis Arisaema triphyllum Aruncus dioicus Asarum canadense * Asclepias tuberose Baptisia australis

Campanulastrum americanum (Campanula

americana)
Coreopsis tripteris
Dicentra eximia
Geranium maculatum
Helenium autumnale

Hibiscus moscheutos (H. palustris)

Jeffersonia diphylla

Lobelia cardinalis *, siphilitica *

Lupinus perennis Monarda didyma

Phlox divaricata, stolonifera Podophyllum peltatum * Polemonium reptans Rudbeckia fulgida, hirta Solidago species

Symphyotrichum (Aster) novae-angliae Veronicastrum virginicum (Veronica virginica)

Herbaceous Emergents

Iris prismatica, versicolor, virginica

Shrubs

Aralia spinosa
Clethra alnifolia
Cornus amomum
Hamamelis virginiana
Hypericum densiflorum
Ilex glabra, laevigata, verticillata

Kalmia latifolia Leucothoe racemosa Lindera benzoin

Morella (Myrica) cerifera, pensylvanica

Ribes rotundifolium

Spiraea alba, alba v. latifolia (latifolia),

tomentosa

Viburnum acerifolium, dentatum (recognitum),

prunifolium

Trees

Acer negundo, rubrum Amelanchier canadensis

Betula nigra

Carpinus caroliniana Cercis canadensis Cornus alternifolia Cornus florida * Diospyros virginiana Fagus grandifolia

Fraxinus americana, pennsylvanica

llex opaca

Juniperus virginiana

Magnolia acuminata, virginiana

Nyssa sylvatica

Pinus — any species in this guide Quercus — any species in this guide

Sambucus racemosa v. racemosa (S. pubens)

Vines

Celastrus scandens Clematis virginiana * Lonicera sempervirens Wisteria frutescens *

Photographic Credits

All photographs in this publication were used with permission of the photographers. Most images are copyrighted by the photographers and/or the sources listed below, and may not be used for commercial purposes without prior written permission of the copyright holders. The U.S. Fish and Wildlife Service is grateful for the generosity and cooperation of these photographers.

Each photograph is marked with an abbreviated form for the corresponding photographer, due to space limitations. Those abbreviations are listed here in alphabetical order, followed by the full credit information.

The Bugwood Network and Forestry Images Image
Archive and Database Systems, The University of
Georgia-Warnell School of Forest Resources and College
of Agricultural and Environmental Sciences-Department of
Entomology. www.bugwood.org
BUG DJM David J. Moorhead
BUG RFW Robert F. Wittwer

ΒZ Bob Zuberbuhler, www.westernpawildflowers.

CAB Carole Ann Barth, Heal Earth Gardens, Silver Spring, Maryland.

CM NRCS Christopher F. Miller, Regional Plant Materials Specialist, U.S. Department of Agriculture, Natural Resources Conservation Service, Somerset, New Jersey.

Digital Flora of Texas Vascular Plant Image Library. www.csdl.tamu.edu/FLORA/galfolks.htm, or

www.texasflora.org

DFT DL David Lemke, The State University-San Marcos, Department of Biology Herbarium. Hugh Wilson, TAMU Herbarium, Texas A&M DFT HW

University.

George McLellan, Species Study Group GM ARS of the Middle Atlantic Chapter, American Rhododendron Society. tjhsst.edu/~dhyatt/ azaleas/atlanticum.html

MOBOT Missouri Botanical Garden. www.mobot.org/ gardeninghelp/plantfinder/service.shtml. Digital images in this database were contributed by Martha Hill, Glenn Kopp and Alan Stentz.

Dan Tanaglia, Missouriplants. www. MP missouriplants.com

NYNHP Stephen M. Young, New York Natural Heritage Program. www.dec.state.ny.us/website/dfwmr/ heritage

OSU Scott Biggs, Ohio State University. http://PlantFacts.osu.edu

USDA-NRCS. 2003. The PLANTS Database, **PLANTS**

plants.usda.gov/plants. National Plant Data Center. Baton Rouge, LA 70874-4490 USA. PLANTS Database images that were used in this guide were contributed by the following:

PLANTS 1995 U.S. Department of Agriculture Natural Resources Conservation Service. 1995 Midwestern Wetlands Flora.

PLANTS 1997 U.S. Department of Agriculture Natural Resources Conservation Service. 1997 Northeastern Wetlands Flora.

PLANTS DEH Herman, D.E. et.al. 1996 North Dakota Tree Handbook. USDA NRCS. ND State Soil Conservation Committee. NDSU Extension and Western Area Power Administration. Bismark, ND.

PLANTS DL Douglas Ladd. U.S. Department of Agriculture Soil Conservation Service. 1989 Midwest Wetland Flora: Field Office Illustrated Guide to Plant Species. Midwest National Technical Center, Lincoln, NE.

PLANTS GAM Gary A. Monroe PLANTS GFR George F. Russell PLANTS JA Jennifer Anderson PLANTS JS Jim Stasz J.S. Peterson PLANTS JSP PLANTS LA Larry Allain

PLANTS RM89 Robert H. Mohlenbrock, U.S. Department of Agriculture, Soil Conservation Service. 1989 Midwest Wetland Flora: Field Office Illustrated Guide to Plant Species. Midwest National Technical Center, Lincoln, NE.

PLANTS RM91 Robert H. Mohlenbrock. U.S. Department of Agriculture, Soil Conservation Service. 1991 Southern Wetland Flora: Field Office Guide to Plant Species. South National Technical Center, Fort Worth, TX.

PLANTS RM95 Robert H. Mohlenbrock. U.S. Department of Agriculture, Natural Resources Conservation Service. 1995 Northeast Wetland Flora: Field Guide to Plant Species. Northeast Technical Center, Chester, PA.

PLANTS TGB Thomas G. Barnes PLANTS WSJ William S. Justice

RHW R. Harrison Wiegand, Maryland Department of Natural Resources, Wildlife and Heritage Service. www.dnr.state.md.us

RS MNPS Rod Simmons, Maryland Native Plant Society. www.mdflora.org

SMSU Paul Redfearn, Ozarks Regional Herbarium, Southwest Missouri State University. biology.smsu.edu/Herbarium

UCONN Mark Brand, UConn Plant Database, University of Connecticut. www.hort.uconn. edu/plants/about.html

USDA NRCS U.S. Department of Agriculture, Natural Resources Conservation Service, National

Plant Materials Center, Beltsville, MD. www. plantmaterials.nrcs.usda.gov/mdpmc

USDA JE John Englert USDA JK Jennifer Kuiawski USDA MG Martin van der Grinten

USFWS U.S. Fish and Wildlife Service Chesapeake Bay Field Office, Annapolis, MD 21401. www.fws.gov/r5cbfo

USFWS BES Britt Slattery USFWS RL Randy Loftus USFWS RM Rich Mason USFWS RS Rich Starr

University of Wisconsin, Wisconsin State Herbarium,

Madison, WI 53706-1381. www.botany.wisc.edu/herbarium **UWI AH** Andrew Hipp, University of Wisconsin-

UWI DK Darrin Kimbler, University of Wisconsin-Madison

UWI DWW Dennis W. Woodland, Andrews University. UWI EJJ Emmet J. Judziewicz University of Wisconsin-Stevens Point and Madison.

UWI JK John Kohout, donated to Wisconsin Department of Natural Resources. UWI JRS James R. Sime, Middleton, Wisconsin.

UWI JS Janice Stiefel, Bailey's Harbor, Wisconsin. UWI KJS Kenneth J. Sytsma, University of Wisconsin-Madison.

UWI KK Kitty Kohout, donated to Wisconsin Department of Natural Resources.

UWI MC Michael Clayton, University of Wisconsin-Madison.

UWI MRB Merel R. Black, University of Wisconsin-Madison

UWI RRK Robert R. Kowal, University of Wisconsin-Madison.

UWI RWF Robert W. Freckmann, University of Wisconsin-Stevens Point.

UWI TK Tim Kessenich, Wisconsin Department of Natural Resources.

VT Virginia Tech (Virginia Polytechnic Institute and State University), College of Natural Resources, Forest Biology and Dendrology Educational Sites. www.cnr.vt.edu/dendro/

wwwmain.html

References

Bowman's Hill Wildflower Preserve. *Deer Tolerant/Resistant Native Plants* (information sheet). New Hope, PA. 2002.

Brown, Russel G. and Melvin L. Brown. *Herbaceous Plants of Maryland*. Port City Press, Baltimore, MD. 1984.

Brown, Russel G. and Melvin L. Brown. Woody Plants of Maryland. Port City Press, Baltimore, MD. 1972.

Burrell, C. Colston. A Gardener's Encyclopedia of Wildflowers: An Organic Guide to Choosing and Growing over 150 Beautiful Wildflowers. Rodale Press, Inc., Emmaus, PA. 1997.

Dirr, Michael A. *Manual of Woody Landscape Plants*. Fifth Edition. Stipes Publishing LLC, Champaign, IL. 1998.

Elias, Thomas S. *The Complete Trees of North America*. Gramercy Publishing Company, New York, NY. 1987.

Flora of North America Editorial Committee. *Flora of North America North of Mexico. Volume 2: Pteridophytes and Gymnosperms.* Oxford University Press, New York, NY. 1993.

Fernald, Merritt L. *Gray's Manual of Botany*. Eighth Edition. D. Van Nostrand Company, New York, NY. 1970.

Fike, Jean. *Terrestrial and Palustrine Plant Communities of Pennsylvania*. Pennsylvania Bureau of Forestry, Harrisburg, PA, The Nature Conservancy, Middletown, PA and Western Pennsylvania Conservancy, Pittsburgh, PA. 1999.

Gleason, Henry A. and Arthur Cronquist. *Manual of Vascular Plants of Northeastern United States and Adjacent Canada*. Willard Grant Press, Boston, MA 1963.

Harlow, William M., Ellwood S. Harrar, James W. Hardin, and Fred M. White. *Textbook of Dendrology* Eighth Edition. McGraw-Hill, Inc., New York, NY. 1996.

Hart, Rhonda Massingham. Deer-Proofing Your Yard & Garden. Storey Books, Pownal, VT. 1997.

Hightshoe, Gary L. *Native Trees, Shrubs, and Vines for Urban and Rural America*. Van Nostrand Reinhold, New York, NY. 1988.

Johnson, Lorraine. 100 Easy-To-Grow Native Plants For American Gardens in Temperate Zones. Firefly Books Ltd., Buffalo, NY. 1999.

Jones, Samuel B. Jr. and Arlen E. Luchsinger. *Plant Systematics*. Second Edition. McGraw-Hill Book Company, New York, NY. 1986.

Kricher, John C. *The Peterson Field Guide Series. A Field Guide to Eastern Forests: North America.* Houghton Mifflin Company, Boston, MA. 1988.

Little, Elbert L. *The Audubon Society Field Guide to North American Trees: Eastern Region*. Alfred A. Knopf, Inc., New York, NY. 1980.

Luttenberg, Danielle, Deborah Lev and Michael Feller. *Native Species Planting Guide for New York City and Vicinity*. City of New York Parks and Recreation, New York, NY. 1993.

Magee, Dennis W. Freshwater Wetlands: *A Guide to Common Indicator Plants of the Northeast*. University of Massachusetts Press, Amherst, MA. 1981.

Martin, Alexander C. and A. L. Nelson. *American Wildlife and Plants: A Guide to Wildlife Food.* Dover Publications, Minneola, NY. 1985.

Newcomb, Lawrence. *Newcomb's Wildflower Guide*. Little, Brown and Company, Boston, MA. 1977.

Niering, William A. The Audubon Society Nature Guides: Wetlands. Alfred A. Knopf, Inc., New York, NY. 1985.

Phillips, Ellen and C. Colston Burrell. *Rodale's Illustrated Encyclopedia of Perennials*. Rodale Press, Inc., Emmaus, PA. 1993.

Redington, Charles B., Ph.D. *Plants in Wetlands*. Kendall/Hunt Publishing Company, Dubuque, IA. 1994.

Reed, Clyde F. The Ferns and Fern Allies of Maryland and Delaware including District of Columbia. The Science Press, Lancaster, PA. 1953.

Rhoads, Ann F. and Timothy A. Block. *The Plants of Pennsylvania: An Illustrated Manual.* University of Pennsylvania Press, Philadelphia, PA. 2000.

Still, Steven M. *Manual of Herbaceous Ornamental Plants*. Fourth Edition. Stipes Publishing Company, Champaign, IL. 1994.

Swearingen, J., K. Reshetiloff, B. Slattery, and S. Zwicker. 2002. *Plant Invaders of Mid-Atlantic Natural Areas*. National Park Service and U.S. Fish & Wildlife Service, 82 pp.

Thurnhorst, Gwendolyn *A. Wetland Planting Guide for the Northeastern United States*. Environmental Concern, Inc., St. Michaels, MD. 1993.

Tiner, Ralph W. A Field Guide to Coastal Wetland Plants of the Northeastern United States. University of Massachusetts Press, Amherst, MA. 1987.

Tiner, Ralph W. Field Guide to Nontidal Wetland Identification. Maryland Department of Natural Resources, Annapolis, MD and U.S. Fish and Wildlife Service, Newton Corner, MA. 1988.

Tyning, Thomas F. A Guide to Amphibians and Reptiles. Stokes Nature Guides. Little, Brown and Company, Boston, MA. 1990.

Water and Ecosystems Team. *Roadside Use of Native Plants*. Federal Highway Administration. Washington D.C. 1999.

Internet References

American Forests (www.americanforest.org/resources/bigtrees/register.php).

Bowman's Hill Wildflower Preserve (www.bhwp.org).

Brooklyn Botanic Garden (www.bbg.org).

Connecticut Botanical Society (www.ct-botanical-society.org).

Harvard University Herbaria (www.huh.harvard.edu).

Horticopia (www.horticopia.com).

Horticopia Plant Information (www.hortpix.com).

Kentucky Native Plant Society (www.knps.org).

Missouri Botanical Garden (www.mobot.org).

NatureServe (www.natureserve.org).

Nearctica (www.nearctica.com/nathist/nathist.htm).

Ohio State University (ohioline.osu.edu).

Plant America (www.plantamerica.com).

Plant File (www.plantfile.com).

Plants For a Future (www.pfaf.org).

Saw Mill River Audubon, Pruyn Sanctuary Butterfly and Hummingbird Garden 2001 Plant List (www.sawmillriveraudubon.org/downloads/GardenList.doc).

South Carolina Forestry Commission (www.state.sc.us/forest/tidtsim.htm).

Sustainable Urban Landscape Information Series (www.sustland.umn.edu).

Toadshade (www.toadshade.com).

USDA Silvics of North America (www.na.fs.fed.us/spfo/pubs/silvics_manual/table_of_contents. htm) Burns, Russell M., and Barbara H. Honkala, tech. coords. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. U.S. Department of Agriculture, Forest Service, Washington, DC. 1990.

USDA, NRCS. 2001 The PLANTS Database, version 3.1 (plants.usda.gov/plants). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

University of Minnesota, Sustainable Urban Landscape Information Series (www.sustland.umn.edu).

University of Wisconsin Botanical Garden (www.botany.wisc.edu/Garden).

Washington State Department of Ecology (www.ecy.wa.gov/programs/wq/plants/native/brasenia.html).

The Xerces Society (www.xerces.org).

Catalogs

Adkins Arboretum. Fall 2001 Native Plant Sale: Plant Sale List. Ridgely, MD (www.adkinsarboretum.org).

Bluemount Nuseries, Inc. Catalog 2001. Monkton, MD (www.bluemount.com).

Carroll Gardens. America's Selection of Rare and Unusual Plants 1997. Westminster, MD (www.carrollgardens.com).

Environmental Concern. 2001 Nursery Catalog. St. Michaels, MD (www.wetland.org).

Environmental Concern, Inc. 1996 Nursey Catalog. St. Michaels, MD. 1996 (www.wetland.org).

Ernst Conservation Seeds. Wholesale Price List – Spring/Summer 2003. Meadville, PA (www.ersntseed.com).

Ernst Conservation Seeds. Wholesale 2002 Catalog and Information Guide. Meadville, PA (www.ersntseed.com).

Ernst Conservation Seeds. 1999 Information Guide. Meadville, PA (www.ersntseed.com).

Lower Marlboro Nursery. Spring 1999. Dunkirk, MD (www.lowermarlboronursery.com).

Maryland Natives Nursery, Inc. 2002 Catalog. Baltimore, MD (www.marylandnativesnursery.com).

North Creek Nurseries, Inc. 2001 Wholesale Catalog. Landenberg, PA (www.northcreeknurseries.com).

North Creek Nurseries, Inc. 1999 Wholesale Starters. Landenberg, PA (www.northcreeknurseries.com).

Octoraro Native Plant Nursery. 2002 Wholesale Nursery Catalog. Kirkwood, PA (www.octoraro.com).

Talmage Farm. Native Plants Naturally 2000 Wholesale Catalog. Riverhead, NY (www.talmagefarm.com).

Virginia Natives. 2001 Catalog. Hume, VA. (www.vnps.org).

Wild Earth Native Plant Nursery. 1999 Catalog. Freehold, NJ.

Index

	Celtis occidentalis
Latin name	Cephalanthus occ
Acer negundo54	Cercis canadensis
Acer rubrum54	Chamaecrista fas
Acer saccharinum54 Acer saccharum54	Chamaecyparis th
Acer spicatum	Chamerion angus spp angustifoli
Actaea pachypoda	Spp angusuloii Chasmanthium lai
Adiantum pedatum11	Chelone glabra
Agalinis purpurea18	Chimaphila macul
Ageratina altissima v. altissima18	Chionanthus virgii
Agrostis perennans14	Chrysogonum virg
Allium cernuum	Chrysopsis maria
Alnus serrulata	Cimicifuga racemo
Amelanchier arborea54 Amelanchier canadensis54	Claytonia virginica
Ammophila breviligulata	Clematis viorna Clematis virginian
Andropogon gerardii14	Clethra alnifolia
Andropogon glomeratus14	Clitoria mariana
Andropogon scoparius (see Schizachyrium)	Comptonia peregi
Andropogon virginicus14	Conoclinium coele
Anemone canadensis	Coreopsis tripteris
Anemone virginiana18	Coreopsis verticill
Anemonella thalictroides (see Thalictrum	Cornus alternifolia
thalictroides) Antennaria neglecta18	Cornus amomum
Aquilegia canadensis	Cornus florida
Aralia nudicaulis	Cornus racemosa Corylus american
Aralia racemosa	Crataegus crus-ga
Aralia spinosa45	Crataegus viridis.
Arisaema triphyllum19	Danthonia spicata
Aristolochia durior (see A. macrophylla)	Delphinium tricorr
Aristolochia macrophylla 64	Dennstaedtia pun
Aronia (see Photinia)	Dentaria laciniata
Aruncus dioicus	concatenata)
Asarum canadense	Desmodium panio
Asclepias syriaca	Dicentra canaden Dicentra cucullaria
Asclepias tuberosa	Dicentra eximia
Asimina triloba54	
	Dichanthelium cla
Asplenium platyneuron11 Aster (see Doellingeria, Eurybia, Ionactis,	Dichanthelium cla Dichanthelium co Diospyros virginia
Asplenium platyneuron11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum)	Dichanthelium cla Dichanthelium col Diospyros virginia Distichlis spicata.
Asplenium platyneuron	Dichanthelium cla Dichanthelium con Diospyros virginia Distichlis spicata Dodecatheon mea
Asplenium platyneuron	Dichanthelium cla Dichanthelium col Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe
Asplenium platyneuron	Dichanthelium cla Dichanthelium col Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus
Asplenium platyneuron	Dichanthelium cla Dichanthelium col Diospyros virginia Distichlis spicata . Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata
Asplenium platyneuron	Dichanthelium cla Dichanthelium col Diospyros virginia Distichlis spicata . Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris interne
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 15 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55	Dichanthelium cla Dichanthelium col Diospyros virginia Distichlis spicata . Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris interme Dryopteris margin
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimfolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon mei Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris interm Dryopteris margin Dulichium arundir
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64	Dichanthelium cla Dichanthelium con Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris interme Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon me. Doellingeria umbe Dryopteris cristata Dryopteris intermi Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris interme Dryopteris margini Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus virginicus
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris intermo Dryopteris margin Dulichium arundir Elymus canadens Elymus riparius Elymus riparius Elymus virginicus Epilobium angusti
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 15 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Bottychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthu Dryopteris cristata Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus virginicus Epilobium angust. (see Chameric
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula leleghaniensis 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20	Dichanthelium cla Dichanthelium con Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbes Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundin Elymus canadens Elymus hystrix Elymus virginicus Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula leleghaniensis 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20	Dichanthelium cla Dichanthelium con Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris margin Dulichium arundin Elymus canadens Elymus hystrix Elymus virginicus Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum)
Asplenium platyneuron	Dichanthelium cla Dichanthelium con Diospyros virginia Distichlis spicata. Dodecatheon men Doellingeria umben Dryopteris carthus Dryopteris cristata Dryopteris intermo Dryopteris margin Dulichium arundin Elymus canadens Elymus virginicus Elymus virginicus Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula lenta 55 Betula nigra 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Calltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon men Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris interm Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus virginicus Elymus virginicus Ejlobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amei
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20	Dichanthelium cla Dichanthelium co. Diospyros virginia Distichlis spicata. Dodecatheon me. Doellingeria umbe. Dryopteris carthus. Dryopteris risterm. Dryopteris margin. Dulichium arundir. Elymus canadens. Elymus riparius Elymus riparius Elymus virginicus. Elymus virginicus. Elymus virginicus. (see Chameric. Erianthus gigante giganteum) Erigeron pulchellu. Erythronium amei.
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Bottychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campasis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14	Dichanthelium cla Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelingeria umbe Dryopteris carthus Dryopteris cristate Dryopteris cristate Dryopteris margin Dulichium arundir Elymus candens Elymus riparius Elymus virginicus Epilobium angust (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium ame Eupatorium coele (see Conoclini
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cemua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14	Dichanthelium cla Dichanthelium col Dryopteris carthus Dryopteris carthus Dryopteris carthus Dryopteris margin Dulichium arundir Elymus canadens Elymus canadens Elymus riparius Elymus riparius Elymus virginicus Epilobium angust. (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amei Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium dubiu
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calmagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex lurida 15	Dichanthelium cla Dichanthelium col Dryopteris cristate Dryopteris cristate Dryopteris margin Dulichium arundir Elymus canadens Elymus canadens Elymus riparius Elymus riparius Elymus virginicus Epilobium angust. (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amel Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium fistulo Eupatorium hysso
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cemua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calmagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex pensylvanica 15	Dichanthelium cla Dichanthelium col Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundir Elymus canadens Elymus canadens Elymus hystrix Elymus virginicus Elymus riparius Elymus riparius Elymus ripariucus Erilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amel Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium fistule Eupatorium fistule Eupatorium macu
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula elleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Bortychium virginianum 11 Calmagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campanulastrum americanum 20 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex crinita var. crinita 14 Carex pensylvanica 15 Carex stricta 15	Dichanthelium cla Dichanthelium col Dryopteris carthus Dryopteris cristats Dryopteris interm Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus virginicus Epilobium angust (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amel Eupatorium debiu Eupatorium distulc Eupatorium fistulc Eupatorium macu Eupatorium macu Eupatorium macu Eupatorium macu Eupatorium macu Eupatorium macu
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula lenta 55 Betula nigra 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Callicarpa americana (see Campanulastrum americanum) 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex persylvanica 15 Carex vulpinoidea 15	Dichanthelium cla Dichanthelium col Dryopteris carthus Dryopteris cristats Dryopteris interm Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus riparius Elymus riparius Elymus virginicus Epilobium angust (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amei Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium flysto Eupatorium macu Eupatorium macu Eupatorium perfo Eupatorium purpu
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula lenta 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Callicarpa americana 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campanulastrum americanum 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex pensylvanica 15 Carex vulpinoidea 15 Carpinus caroliniana 55	Dichanthelium cla Dichanthelium col Doellingeria umbe Dryopteris carthus Dryopteris carthus Dryopteris cristata Dryopteris margin Dulichium arundir Elymus chadens Elymus riparius Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amer Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium marcu Eupatorium marcu Eupatorium marcu Eupatorium perfol Eupatorium purpu Eupatorium rugos
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia functoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Bottyrchium virginianum 11 Calmagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex pensylvanica 15 Carex pensylvanica 15 Carex vulpinoidea 15 Carpinus caroliniana 55 Carya alba 55	Dichanthelium cla Dichanthelium col Doellingeria umbe Dryopteris carthus Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundir Elymus candens Elymus riparius Elymus virginicus Epilobium angust (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium ame Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium perfor Eupatorium perfor Eupatorium rugos (see Ageratina
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cemua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calmagrostis canadensis 14 Caltha palustris 20 Campanula americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardex crinita var. crinita 14 Carex glaucodea 14 Carex pensylvanica 15 Carex vulpinoidea 15 Carex vulpinoidea 15 Carya alba 55 Carya cordiformis 55	Dichanthelium cla Dichanthelium col Dichanthelium col Dichanthelium col Diospyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus riparius Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amer Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium fistulc Eupatorium macu Eupatorium perfoi Eupatorium purpus (see Ageratina Eurybia divaricata
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Callicarpa americana 45 Caltha palustris 20 Campanula americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex pensylvanica 15 Carex pensylvanica 15 Carex vulpinoidea 15 Carya alba 55 Carya ovata 55 Carya ovata 55	Dichanthelium cla Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dispyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundin Elymus canadens Elymus hystrix Elymus riparius Elymus virginicus Epilobium angust. (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amel Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium purpos (see Ageratine Eurybia divaricate Fagus grandifolia
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula elleghaniensis 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Callicarpa americana 45 Callicarpa americana 45 Callicarpa americana 45 Caltha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex plaucodea 14 Carex pensylvanica 15 Carex vulpinoidea 15 Carya cordiformis 55 Carya cordiformis 55 Carya ovata 55	Dichanthelium cla Dichanthelium col Dellingeria umbe Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus riparius Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amei Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium macu Eupatorium purpu Eupatorium purpu Eupatorium rugos (see Ageratina Eurybia divaricata Fagus grandifolia Festuca rubra
Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Callicarpa americana 20 Cattha palustris 20 Campanula americana (see Campanulastrum americanum) 20 Campanula strum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex lurida 15 Carex turida 15 Carex vulpinoidea 15 Carya cordiformis 55 Carya cordiformis 55 Carya cordiformis 55 Carya cordiformis 55	Dichanthelium cla Dichanthelium col Dellingeria umbe Dryopteris carthus Dryopteris cristate Dryopteris margin Dulichium arundir Elymus canadens Elymus hystrix Elymus virginicus Elymus virginicus Elymus virginicus Elymus virginicus Elymus virginicus Enibolium angust (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amet Eupatorium coele (see Conoclini Eupatorium dubiu Eupatorium fistula Eupatorium macu Eupatorium macu Eupatorium purpu Eupatorium rugos (see Ageratina Eurybia divaricata Fagus grandifolia Festuca rubra Fraxinus americai Fraxinus pennsylv
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula elleghaniensis 55 Betula elnta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Callicarpa americana 45 Callicarpa americana 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex pensylvanica 15 Carex pensylvanica 15 Carex stricta 15 Carya ordiformis 55 Carya cordiformis 55 Car	Dichanthelium cla Dichanthelium cla Dichanthelium col Dicspyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris cristata Dryopteris margin Dulichium arundir Elymus cadens Elymus riparius Elymus virginicus Ejlymus virginicus Ejlobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amet Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium macu Eupatorium perfol Eupatorium rugos (see Ageratina Eurybia divaricata Fagus grandifolia Festuca rubra Fraxinus pennsylv Gaultheria procun
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia functoria 20 Betula alleghaniensis 55 Betula lenta 55 Betula nigra 55 Bidens cemua 20 Bignonia capreolata 64 Boltonia asteroides 20 Bottyrchium virginianum 11 Calmagrostis canadensis 14 Callicarpa americana 45 Caltha palustris 20 Campanula americana 20 Campanula americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex glaucodea 14 Carex pensylvanica 15 Carex tricta 15 Carex virita 15 Carex virita 15 Carex virita 15 <td>Dichanthelium cla Dichanthelium cla Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris carthus Dryopteris cristata Dryopteris margin Dulichium arundir Elymus candens Elymus hystrix Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amer Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium perfol Eupatorium purpu Eupatorium rugos (see Ageratina Eurybia divaricata Fagus grandifolia Festuca rubra Fraxinus americai Fraxinus pennsyli Gaultheria procun Gaylussacia bacc</td>	Dichanthelium cla Dichanthelium cla Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium col Dichanthelium spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris carthus Dryopteris cristata Dryopteris margin Dulichium arundir Elymus candens Elymus hystrix Elymus virginicus Epilobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amer Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium perfol Eupatorium purpu Eupatorium rugos (see Ageratina Eurybia divaricata Fagus grandifolia Festuca rubra Fraxinus americai Fraxinus pennsyli Gaultheria procun Gaylussacia bacc
Asplenium platyneuron 11 Aster (see Doellingeria, Eurybia, Ionactis, Symphyotrichum) 11 Athyrium filix-femina 11 Baccharis halimifolia 45 Baptisia australis 20 Baptisia tinctoria 20 Betula elleghaniensis 55 Betula elnta 55 Betula nigra 55 Bidens cernua 20 Bignonia capreolata 64 Boltonia asteroides 20 Botrychium virginianum 11 Calamagrostis canadensis 14 Callicarpa americana 45 Callicarpa americana 45 Callicarpa americana 20 Campanula americana (see Campanulastrum americanum) 20 Campanulastrum americanum 20 Campsis radicans 64 Cardamine concatenata 20 Carex crinita var. crinita 14 Carex pensylvanica 15 Carex pensylvanica 15 Carex stricta 15 Carya ordiformis 55 Carya cordiformis 55 Car	Dichanthelium cla Dichanthelium cla Dichanthelium col Dicspyros virginia Distichlis spicata. Dodecatheon med Doellingeria umbe Dryopteris carthus Dryopteris cristata Dryopteris cristata Dryopteris margin Dulichium arundir Elymus cadens Elymus riparius Elymus virginicus Ejlymus virginicus Ejlobium angusti (see Chameric Erianthus gigante giganteum) Erigeron pulchellu Erythronium amet Eupatorium dubiu Eupatorium dubiu Eupatorium fistulc Eupatorium macu Eupatorium macu Eupatorium perfol Eupatorium rugos (see Ageratina Eurybia divaricata Fagus grandifolia Festuca rubra Fraxinus pennsylv Gaultheria procun

Celastrus scandens	64
Celtis occidentalis	
Cephalanthus occidentalis	
Cercis canadensis	
Chamaecrista fasciculata	
Chamaecyparis thyoides	56
Chamerion angustifolium	
spp angustifolium	21
Chasmanthium latifolium	15
Chelone glabra	21
Chimaphila maculata	
Chionanthus virginicus	
Chrysogonum virginianum	
Chrysopsis mariana	
Cimicifuga racemosa	21
Claytonia virginica	21
Clematis viorna	
Clematis virginiana	
•	
Clethra alnifolia	
Clitoria mariana	
Comptonia peregrina	
Conoclinium coelestinum	22
Coreopsis tripteris	
Coreopsis verticillata	
Cornus alternifolia	
Cornus amomum	
Cornus florida	
Cornus racemosa	
Corylus americana	46
Crataegus crus-galli	
Crataegus viridis	
Danthonia spicata	
Delphinium tricorne	
•	
Dennstaedtia punctilobula	П
Dentaria laciniata (see Cardamine	
concatenata)	
Desmodium paniculatum	22
Dicentra canadensis	
Dicentra cucullaria	
Dicentra eximia	
Dichanthelium clandestinum	
Dichanthelium commutatum	
Diospyros virginiana	57
Distichlis spicata	
Dodecatheon meadia	
Doellingeria umbellata var. umbellata	
Dryopteris carthusiana	
Dryopteris cristata	
Dryopteris intermedia	11
Dryopteris marginalis	12
Dulichium arundinaceum	41
Elvmus canadensis	
,	
Elymus hystrix	
Elymus riparius	
Elymus virginicus	16
Epilobium angustifolium	
(see Chamerion)	
Erianthus giganteus (see Saccharum	
giganteum)	
giganteum) Erigeron pulchellus	22
Erythronium americanum	23
Eupatorium coelestinum	
(see Conoclinium coelestinum)	
Eupatorium dubium	23
Eupatorium fistulosum	
•	
Eupatorium hyssopifolium	
Eupatorium maculatum	
Eupatorium perfoliatum	
Eupatorium purpureum	24
Eupatorium rugosum	
(see Ageratina altissima v. altissima)	
,	21
Eurybia divaricata	
Fagus grandifolia	
Festuca rubra	
Fraxinus americana	57
Fraxinus pennsylvanica	
	57
Gaultheria procumbens	57 46
	57 46 46

Geranium maculatum	24
Geranium maculalum Gillenia trifoliata (see Porteranthus trifoliatus	
Goodyera pubescens	,
Hamamelis virginiana	
Helenium autumnale	
Helianthus angustifolius	
Helianthus decapetalus	
Helianthus decapetalus Helianthus divaricatus	
Heliopsis helianthoides	
Hepatica acutiloba	20
(see H. nobilis var. acuta)	
(see ri. riobilis var. acuta) Hepatica americana	
перацка атепсапа (see H. nobilis var. obtusa	
(see н. nobilis var. obtusa Hepatica nobilis var. acuta	25
Hepatica nobilis var. acuta Hepatica nobilis var. obtusa	
Heracleum maximum	
Heuchera americana	
Heuchera villosa	
Hibiscus moscheutos	
Houstonia caerulea	
Hydrangea arborescens	
Hydrophyllum virginianum	
Hylotelephium telephioides	
Hypericum densiflorum	4/
Hystrix patula (see Elymus hystrix)	17
llex glabra	
llex laevigata	
llex opaca	
llex verticillata	
Impatiens capensis	
Ionactis linariifolius	
Iris prismatica	
Iris versicolor	
Iris virginica	
Itea virginica	
Iva frutescens	
Jeffersonia diphylla	
Juglans nigra	
Juncus canadensis	41
Juncus effuses	
Juncus roemerianus	42
Juniperus virginiana	57
Justicia americana	
Kalmia angustifolia	
Kalmia latifolia	
Kosteletzkya virginica	
Leersia oryzoides	
Lespedeza capitata	
Leucothoe racemosa	
Liatris pilosa v. pilosa	
Liatris scariosa	
Liatris spicata	
Liatris squarrosa	
Lilium canadense	
Lilium philadelphicum	
Lilium superbum	
Limonium carolinianum	
Linaria canadensis (see Nuttallanthus	
canadensis)	
Lindera benzoin	48
Liquidambar styraciflua	
Liquidambar styracindaLiquidambar styracindaLiriodendron tulipifera	
Lobelia cardinalis	
Lobelia siphilitica	
Lonicera sempervirens	
Lupinus perennis	
Lyonia ligustrina	
Lyonia mariana	
Magnolia acuminata	
Magnolia virginiana	
Maianthemum canadense	28
Maianthemum racemosum	
ssp.racemosum	
Malus coronaria	
Medeola virginiana	
Melanthium virginicum	28

ns	64	Geranium maculatum	24	Mitella diphylla	29
S		Gillenia trifoliata (see Porteranthus trifoliatus		Monarda bradburiana	
cidentalis		Goodyera pubescens	,	Monarda didyma	
's		Hamamelis virginiana		Monarda fistulos (see M. bradburiana)	
sciculata		Helenium autumnale		Monarda punctata	29
hyoides	. 56	Helianthus angustifolius		Morella caroliniensis	
stifolium		Helianthus decapetalus	25	Morella cerifera	
lium	21	Helianthus divaricatus		Morella pensylvanica	48
ntifolium	. 15	Heliopsis helianthoides	25	Morus rubra	
	21	Hepatica acutiloba		Myrica (see Morella)	
ılata		(see H. nobilis var. acuta)		Nuphar lutea	42
inicus	. 56	Hepatica americana		Nuttallanthus canadensis	
ginianum		(see H. nobilis var. obtusa		Nymphaea odorata	
na		Hepatica nobilis var. acuta	25	Nyssa sylvatica	
10sa		Hepatica nobilis var. obtusa		Oenothera biennis	
a		Heracleum maximum		Oenothera fruticosa	
u		Heuchera americana		Oenothera perennis	
na		Heuchera villosa		Onoclea sensibilis	
		Hibiscus moscheutos		Opuntia humifusa	
		Houstonia caerulea		Orontium aquaticum	
rina		Hydrangea arborescens		Osmorhiza longistylis	
estinum		Hydrophyllum virginianum		Osmunda cinnamomea	
S		Hylotelephium telephioides		Osmunda claytoniana	
lata		Hypericum densiflorum		Osmunda regalis	
a		Hystrix patula (see Elymus hystrix)	. 71	Ostrya virginiana	
u		llex glabra	47	Oxalis violacea	
		Ilex laevigata		Packera aurea	
3		•		Panicum amarum	
		llex opaca		Panicum virgatum	
na		llex verticillata		ŭ	
alli		Impatiens capensis		Parthenocissus quinquefolila Passiflora incarnata	
		Ionactis linariifolius			
a		Iris prismatica		Peltandra virginica	
ne		Iris versicolor		Penstemon digitalis	
nctilobula	11	Iris virginica		Penstemon laevigatus	
(see Cardamine		Itea virginica		Phlox carolina	
	00	Iva frutescens		Phlox divaricata	
culatum		Jeffersonia diphylla		Phlox maculate	
1sis		Juglans nigra		Phlox paniculata	
ia		Juncus canadensis		Phlox stolonifera	
		Juncus effuses		Phlox subulata	
andestinum		Juncus roemerianus		Photinia melanocarpa	
mmutatum		Juniperus virginiana		Photinia pyrifolia	
ana	. 57	Justicia americana		Physocarpus opulifolius	49
	. 41	Kalmia angustifolia	. 47	Physostegia virginiana	31
adia	. 23	Kalmia latifolia	. 47	Pinus echinata	59
ellata var. umbellata	23	Kosteletzkya virginica	. 42	Pinus rigida	
siana	11	Leersia oryzoides	. 16	Pinus serotina	
a	11	Lespedeza capitata	26	Pinus strobes	59
edia	11	Leucothoe racemosa	48	Pinus taeda	59
nalis	. 12	Liatris pilosa v. pilosa	. 27	Pinus virginiana	
naceum	. 41	Liatris scariosa	. 27	Platanus occidentalis	59
sis	. 16	Liatris spicata	. 27	Podophyllum peltatum	31
	. 16	Liatris squarrosa	. 27	Polemonium reptans	32
	. 16	Lilium canadense	. 27	Polygonatum biflorum	32
)	. 16	Lilium philadelphicum	27	Polygonatum pubescens	
ifolium		Lilium superbum	27	Polystichum acrostichoides	
on)		Limonium carolinianum		Pontederia cordata	42
eus (see Saccharum		Linaria canadensis (see Nuttallanthus		Populus deltoides	
(canadensis)		Populus heterophylla	
us	23	Lindera benzoin	48	Porteranthus trifoliatus	
ricanum		Liquidambar styraciflua		Prunus americana	
estinum		Liriodendron tulipifera		Prunus maritima	
ium coelestinum)		Lobelia cardinalis		Prunus pensylvanica	
ım	23	Lobelia siphilitica		Prunus serotina	
osum		Lonicera sempervirens		Prunus virginiana	
opifolium		Lupinus perennis		Pteridium aquilinum	
ılatum		Lyonia ligustrina		Pycnanthemum incanum	
liatum		Lyonia mariana		Pycnanthemum tenuifolium	
ureum		Magnolia acuminata		Pyrus americana (see Sorbus americana)	
ureum Sum	. 44	Magnolia virginiana		Pyrus coronaria (see Malus coronaria)	
		Maianthemum canadense		Quercus alba	60
a altissima v. altissima)	21		. 20		
a		Maianthemum racemosum	20	Quercus bicolor	
······		ssp.racemosum		Quercus tologto	
		Malus coronaria		Quercus falcata	
no.	. U/	Medeola virginiana		Quercus ilicifolia	
na	EZ	Molonthium virginia:			
vanica		Melanthium virginicum		Quercus marilandica	
vanica mbens	. 46	Mertensia virginica	. 28	Quercus michauxii	61
vanica mbens cata	. 46 . 46	Mertensia virginica Mikania scandens	. 28 . 64	Quercus michauxiiQuercus michauxi	61
vanica mbens	. 46 . 46 . 46	Mertensia virginica	. 28 . 64 . 29	Quercus michauxii	61 ii and

Quercus nigra	61	Solidago nemoralis	35	Viola striata	40	blueberry,	
Quercus palustris	61	Solidago odora	36	Wisteria frutescens	65	early lowbush	
Quercus phellos	61	Solidago rugosa	36	Woodwardia areolata	13	highbush	
Quercus prinus	62	Solidago sempervirens	36	Woodwardia virginica		lowbush	52
Quercus rubra		Solidago speciosa	36	Yucca filamentosa (flaccida)	40	bluestem,	
Quercus stellata		Sorbus americana		Zizania aquatica		big	
Quercus velutina		Sorghastrum nutans		Zizia aurea	40	bushy	
Rhexia virginica		Sparganium americanum				little	
Rhododendron atlanticum		Spartina alterniflora		Common Name		bluet	
Rhododendron calendulaceum	49	Spartina cynosuroides	44			boltonia, star	
Rhododendron canescens	49	Spartina patens	44	Adam's needle	40	boneset, common	24
Rhododendron maximum	49	Spartina pectinata	44	alder, smooth		Bowman's root	32
Rhododendron periclymenoides	49	Spiraea alba	51	alumroot		bulrush,	
Rhododendron prinophyllum	50	Spiraea alba v. latifolia	51	anemone,	20	black	43
Rhododendron viscosum		Spiraea latifolia		round-leaved	10	great	43
Rhus aromatica		(see Spirea alba v. latifolia)				woolgrass	
Rhus copallina		Spiraea tomentosa	52	rue		bunchflower, Virginia	
Rhus glabra		Spiranthes cernua		arrow arum	42	bur-reed, American	
Rhus hirta (typhina)		Stachys tenuifolia (hispida)		arrowwood,	50	butterfly pea, Maryland	
Ribes rotundifolium		Staphylea trifolia		maple-leaved		butterflyweed	
Rosa carolina		Stellaria pubera		southern	53	buttonbush	
Rosa palustris		Symphyotrichum cordifolium		ash,		cactus, prickly-pear, eastern	
				American mountain			
Rubus allegheniensis		Symphyotrichum ericoides var. ericoides		green	57	Canada mayflower	
Rubus odoratus		Symphyotrichum laeve var. laeve		white	57	cardinal flower	28
Rudbeckia fulgida		Symphyotrichum novae-angliae	3/	aster,		cedar,	
Rudbeckia hirta		Symphyotrichum novi-belgii	2.7	flat-top white	23	Atlantic white	
Rudbeckia laciniata		var. novi-belgii		golden	21	eastern red	
Rudbeckia triloba		Symplocarpus foetidus		heart-leaved	36	northern white	63
Ruellia caroliniensis		Taxodium distichum		heath	37	cherry,	
Sabatia angularis	33	Thalictrum dioicum	39	New England	37	black	
Saccharum giganteum	17	Thalictrum pubescens	37	New York		choke	60
Sagittaria latifolia	43	Thalictrum thalictroides	37	smooth blue		pin	60
Salix humilis	51	Thelypteris noveboracensis	12	stiff-leaf		chickweed, star	36
Salix nigra	62	Thelypteris palustris	13	white wood		chinquapin	56
Salix sericea	62	Thuja occidentalis	63	autumn bentgrass		chokeberry,	
Salvia lyrata	33	Tiarella cordifolia	38	azalea.	14	black	48
Sambucus canadensis (see Sambucus nic		Tilia americana		dwarf	40	red	
ssp. canadensis)	'	Tradescantia virginiana	38	flame		climbing hempvine	
Sambucus nigra ssp. canadensis	51	Tridens flavus				clover, round-head bush	
Sambucus pubens (see Sambucus racem		Trillium erectum		pinxterbloom		columbine, eastern	
v. racemosa)		Trillium grandiflorum		rose		coneflower,	
Sambucus racemosa v. racemosa	51	Trillium sessile		swamp		early	32
Sanguinaria canadensis		Trillium undulatum		sweet		tall	
Sassafras albidum		Tripsacum dactyloides		basswood, American	63	three-lobed	
Saururus cernuus		Tsuga canadensis		bayberry,		cordgrass,	
Saxifraga pensylvanica		Ulmus americana		northern		big	1/
		Ulmus rubra		southern		freshwater	
Saxifraga virginiensis				beardtongue	30		
Schizachyrium scoparium		Uvularia grandiflora		smooth		salt marsh	43
Schoenoplectus pungens v. pungens		Uvularia perfoliata		beautyberry, American	45	coreopsis,	00
Schoenoplectus validus		Uvularia sessilifolia		beebalm	29	tall	
Scirpus atrovirens		Vaccinium angustifolium		spotted	29	threadleaf	22
Scirpus cyperinus	43	Vaccinium corymbosum		beech, American	57	cottonwood,	
Scirpus pungens (see Schoenoplectus		Vaccinium macrocarpon		beggar-ticks, nodding	20	eastern	59
pungens v. pungens)		Vaccinium pallidum (vacillans)		bellflower, American	20	swamp	60
Scirpus validus		Vaccinium stamineum		bellwort,		cow parsnip	25
(see Schoenoplectus validus)		Veratrum viride		large-flowered	38	crabapple, sweet	58
Scutellaria integrifolia	34	Verbena hastata		perfoliate		cranberry	52
Sedum telephoides (see Hylotelephium		Verbesina alternifolia		bergamot, wild		creeper, Virginia	
telephoides)		Vernonia noveboracensis	39	birch,		crossvine	64
Sedum ternatum	34	Vernonia virginicum		river	55	Culver's root	39
Senecio aureus (see Packera aurea)		(see Veronicastrum)		sweet		cup plant	34
Senna marilandica	34	Veronicastrum virginicum	39	vellow		cutgrass, rice	16
Silene caroliniana	34	Viburnum acerifolium	52	bittersweet, American		cypress, bald	63
Silene stellata	34	Viburnum cassinoides (See Viburnum nudum	V.	blackberry, Allegheny		dangleberry	46
Silene virginica	34	cassinoides)		black-eyed Susan		deerberry	52
Silphium perfoliatum		Viburnum dentatum	53	bladdernut, American		deer-tongue	
Sisyrinchium angustifolium		Viburnum nudum		blazing star		Devil's walking stick	
Sisyrinchium atlanticum		Viburnum nudum v. cassinoides				dogwood,	
Sisyrinchium graminoides (see Sisyrinchiu		Viburnum prunifolium		eastern		alternate-leaf	56
angustifolium)	••	Viburnum recognitum		grass-leaf		flowering	
Smilacina racemosa (see Maianthemum		(see Viburnum dentatum)		plains		red-panicled	
racemosum ssp. racemosum)		Viola conspersa	30	bleeding heart, wild		silky	4C
Smilax herbacea	65	Viola cucullata		bloodroot		doll's eyes	40
Solidago altissima (see S. canadensis v.	00	Viola hastate		bluebells, Virginia		duck potato	10
,			1 U	blue cohosh		dunegrass	43
scabra) Solidago goncia	2F	Viola papilionacea (see Viola sororia)	1 0	blue flag,		Dutohmon's brooks	14
Solidago caesia		Viola pagasylvanias	4 U	slender		Dutchman's breeches	
Solidago canadensis		Viola pennsylvanica		Virginia		dwarf larkspur	22
Solidago canadensis v. scabra		(see Viola pubescens var. pubescens	40	blue vervain	39	elder,	_
Solidago flexicaulis		Viola pubescens var. pubescens				box	
Solidago juncea	35	Viola sororia	40			marsh	47

elderberry,		hickory,		needlerush, black		sedge,	
common		bitternut		New Jersey tea		blue wood	
red	51	mockernut		ninebark	49	broom	
elm,		pignut		oak,		fox	
American		shagbark		bear		long hair	
slippery		high-tide bush	45	black,		Pennsylvania	
false foxglove, purple	18	holly,	E7	blackjack		sallow	
fern,	10	American		chestnut Chinguapin		three-sided tussock	
bracken Christmas		inkberry winterberry		northern red		senna, Maryland wild	
cinnamon		winterberry, smooth		pin		serviceberry,	
crested wood		honeysuckle, trumpet		post		downy	
evergreen wood		hornbeam.		scarlet		shooting star	
hay-scented		American	55	southern red		skullcap, rough	
interrupted		eastern hop		swamp chestnut		skunk cabbage	
marginal shield		huckleberry, black		swamp white		smooth carrion flower	
marsh		hydrangea, wild		water		snakeroot,	
netted chain		hyssop-leaved thoroughwort		white		black,	21
New York	12	Indian cucumber		willow	61	white	18
northern lady	11	Indiangrass		oats, wild	15	sneezeweed, yellow	24
northern maidenhair	11	indigo,		obedient plant		Solomon's seal,	32
rattlesnake	11	wild blue	20	onion, nodding		dwarf	
royal		wild yellow	20	panicgrass, variable	15	false	
sensitive	12	iris (see blue flag)		partridge pea	21	spatterdock	42
sweet		ironweed, New York		partridgeberry		spicebush	
toothed		Jack-in-the-pulpit		passionflower		spiderwort, Virginia	
Virginia chain		Jacob's ladder		paw-paw	54	spikenard	19
fescue, red		jewelweed		persimmon, common		spleenwort, ebony	11
fetterbush		Joe-Pye weed,		petunia, Carolina wild	33	spring beauty	
field pussytoes		green-stemmed		phlox,		squirrel corn	
fire pink		spotted		creeping		St. John's wort, dense	
fireweed		trumpet weed		meadow		stagger-bush	
foamflower		ladies' tresses, nodding	36	moss		starry campion	
fringetree, white		laurel,		summer		steeplebush	52
gentian, closed		great		thick-leaved		stonecrop,	
geranium, wild		mountain		woodland		Allegheny	
ginger, wild		sheep		pickerelweed	42	mountain	34
goat's-beard		leather flower	64	pine,		sumac,	
golden club		lily,		loblolly		fragrant	
golden ragwort		Canada		pitch		shining	
golden-alexanders	40	fragrant water		pond		staghorn	
goldenrod,	0.5	straw		shortleaf		sweet	
bluestem		trout		Virginia		sundrops,	
broad leaf		Turk's cap		white		narrow-leaved	30
Canada		woodlizard's tail		pipevine	04	sunflower, oxeye	25
early gray		lobelia, great blue		plantain, downy rattlesnake	24	swamp	
seaside		lupinelupine		robin's		ten-petaled	
showv		lyre-leaf sage	20	plum.	20	woodland	
sweet		magnolia,		American wild	60	sweet cicely	
tall		cucumber	58	beach		sweet pepperbush	
wrinkle-leaf		sweetbay		plumegrass, giant		switchgrass	
gooseberry, Appalachian		male-berry		poplar, tulip		sycamore, American	
grass,		mallow,		primrose, common evening		tassel-white	
bitter or coastal panic	16	rose	41	raspberry, purple flowering		thimbleweed	
blue-eyed		seashore		redbud, eastern		three-square, common	
bottlebrush		maple,		redtop		tick-trefoil, panicled	
coastal blue-eyed		mountain	54	reedgrass, bluejoint		toadflax, blue	
gama		red		rice, wild		toadshade	
poverty	15	silver	54	rose,		toothwort	20
salt	41	sugar	54	pasture	50	trillium,	
green-and-gold	21	marigold, marsh	20	swamp	51	painted	38
gum,		Mayapple		rose pink	33	purple	
black		meadow-beauty, Virginia	32	rush,		white	
sweet		meadow rue,		Canada		trumpet vine	
hackberry, common		early		soft	41	turtlehead, white	
haw, black	53	tall	37	rye,		twinleaf	26
hawthorn,		meadow-sweet,		Canada wild		violet,	
cockspur		broad-leaved		riverbank wild		American dog	
		narrow-leaved	51	Virginia wild		bird's foot	
green		milkweed,		salt meadow hay		common blue	
hazelnut, American				sarsaparilla, wild	19	halberdleaf yellow	40
hazelnut, Americanhedge nettle	36	common					
hazelnut, Americanhedge nettlehellebore, green false	36 39	swamp		sassafras		marsh blue	
hazelnut, Americanhedge nettlehellebore, green falsehemlock, eastern	36 39	swamp mint,	19	sassafrassaxifrage,	62	marsh bluestriped cream	40
hazelnut, Americanhedge nettlehellebore, green falsehemlock, easternhepatica,	36 39 63	swamp mint, hoary mountain	19	sassafrassaxifrage,	62	marsh bluestriped creamyellow	40 40
hazelnut, Americanhedge nettlehellebore, green falsehemlock, easternhepatica, round-lobed		swamp mint, hoary mountain narrow-leaved mountain	193232	sassafrassaxifrage, earlyeastern swamp	62 34 33	marsh blue striped cream yellow virgin's bower	40 40 64
hazelnut, American		swamp mint, hoary mountain narrow-leaved mountain mistflower	19 32 32 22	sassafrassaxifrage,	62 34 33	marsh blue striped cream yellow virgin's bower walnut, black	
hazelnut, Americanhedge nettlehellebore, green falsehemlock, easternhepatica, round-lobed		swamp mint, hoary mountain narrow-leaved mountain mistflower miterwort, twoleaf		sassafrassaxifrage, earlyeastern swamp	62 34 33	marsh blue striped cream yellow virgin's bower walnut, black waterleaf, Virginia	40 64 57 26
hazelnut, American		swamp mint, hoary mountain narrow-leaved mountain mistflower		sassafrassaxifrage, earlyeastern swamp	62 34 33	marsh blue striped cream yellow virgin's bower walnut, black	

willow,

American water	42
black	62
prairie	51
silky	62
wingstem, yellow ironweed	39
wintergreen,	
striped	21
wisteria, Atlantic	
witch hazel	46
witherod,	53
naked	53
wood sorrel, violet	30



U.S. Fish & Wildlife Service Chesapeake Bay Field Office 177 Admiral Cochrane Dr.

Annapolis, MD 21401 410/573 4500 www.fws.gov/r5cbfo



Adkins Arboretum

P.O. Box 100 Ridgely, MD 21660 410/634 2847 www.adkinsarboretum.org



Baltimore County Department of Environmental Protection and Resource Management

401 Bosley Ave., Ste. 416 Towson, MD 21204 410/887 4488 www.baltimorecountyonline.info



Chesapeake Bay Trust

60 West Street, Ste. 200-A Annapolis, MD 21401 410/974 2941 www.chesapeakebaytrust.org



Irvine Nature Center

8400 Greenspring Avenue Stevenson, MD 21153 410/484 2413 www.explorenature.org



Maryland Native Plant Society

P.O. Box 4877 Silver Spring, MD 20914 301/809 0139 www.mdflora.org mnps@toad.net



National Fish and Wildlife Foudation

1120 Connecticut Ave. NW, Ste. 900 Washington, DC 20036 202/857 0166 www.nfwf.org



The Nature Conservancy

Maryland/DC Chapter 5410 Grosvenor Ln., Ste. 100 Bethesda, MD 20814 301/897 8570 www.nature.org





USDA NRCS Cape May Plant Materials Center 1536 Rt. 9 North

Cape May Court House, NJ 08210 609/465 5901 plant-materials.nrcs.usda.gov



