



PIEDMONT NATIVE PLANTS

A guide for landscapes and gardens

SECOND EDITION



NORTHERN PIEDMONT NATIVES

Vision:

To bring native plant landscapes to the forefront of design, development, and installation in our community.

Mission:

To promote stewardship of the Virginia Piedmont by landscaping our developed environments in an ecologically diverse and cost-efficient manner.



<https://www.plantvirginianatives.org/plant-northern-piedmont-natives>

Cover Photo: David Anhold, *Asclepias syriaca*, Common Milkweed

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PREFACE

Biodiversity and ecosystem services drive our devotion to bring you the second edition of this guide. These words were not emphasized in the first edition, but encompass the ancient concepts gardeners, landscape architects, farmers, scientists, and nature enthusiasts have understood to be critical in providing resilient and abundant life. Biodiversity, or biological diversity, is the variety and variability of life in any given ecosystem. Ecosystem services are the many benefits we enjoy provided by the natural environment, such as natural pollination of crops, clean air, clean drinking water, extreme weather mitigation, and human well-being. Ecosystem services give us the freedom and well-being our forefathers once freely enjoyed.

The father of wildlife ecology, Aldo Leopold, was an early promoter of biodiversity. In his essay "The Land Ethic" (1949), he studied conservation economics of land use,

and concluded that "The bulk of all land relations hinges on investments of time, forethought, skill, and faith rather than of investments of cash." Through this guide, we hope to inspire a deep appreciation for biodiversity and Leopold's approach to land management, by embracing the reemergence of native plant knowledge.

Prior to the first edition of this guide, Albemarle County staff and the Natural Heritage Committee volunteers have strived to preserve the natural world. In 2018 they created the County's Biodiversity Action Plan (BAP). This is a set of non-regulatory actions the County and its citizens can use to strengthen the ecological fabric of our local environment. BAP is a template that surrounding counties can adopt partially or in full to strengthen our regional biodiversity. A link to the BAP can be found on our Resources page.



David Anhold



Scott Clark

Hooded Warbler

Native plants are the fundamental basis for biodiversity and the food web that sustains us. These plants grow in community with one another across the landscape and are found in the same site conditions. References to plant communities and site specific plants can be found on pages 11 and 96. Human activity fragments habitats and infringes on our use of ecosystem services. The real cost of disruption to ecosystem services will be paid through expensive restoration projects when conservation is no longer available. Greater biodiversity affords us a prosperous landscape to be inherited by future generations.

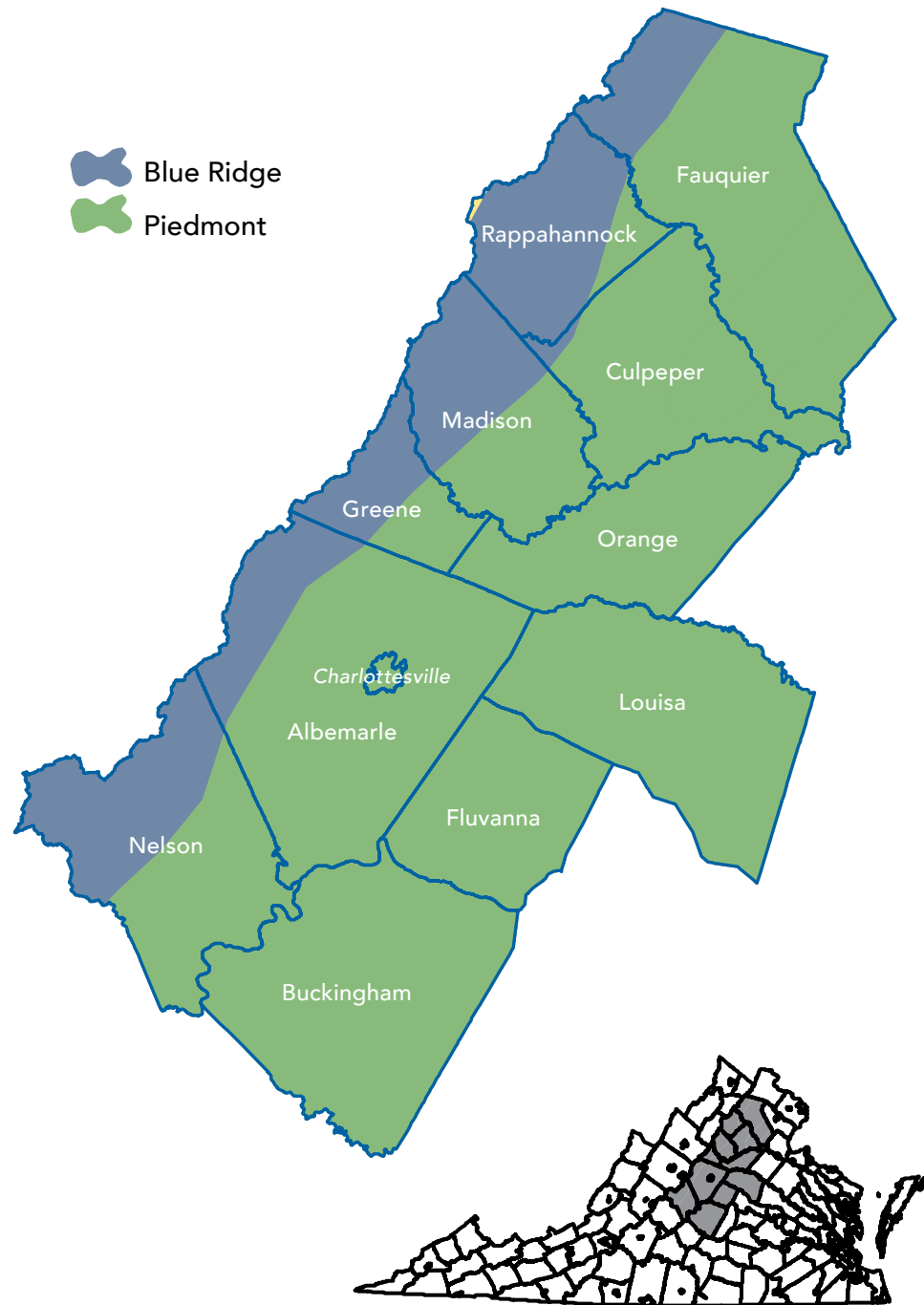
The management of invasive species is a formidable task to consider when reestablishing healthy ecosystems. Our friends at the Blue Ridge PRISM, a volunteer driven organization, provide residents with support to manage invasive plants in our local environment. Doug Tallamy, the

leader of the "Homegrown National Park" movement leads an effort to regenerate biodiversity across America. For more on invasive species management, and Tallamy's work see our Resources page.

We hope this guide will embolden you to steward and restore our beautiful natural environment. You can observe the glory of these wonderful plant communities across many of the public lands, and native plant demonstration landscapes throughout our region. The location of the demonstration landscapes can be found on page 104. Let's celebrate the conservation of these natural landscapes and be great stewards of the vital services they provide. There is no greater gift we can give future generations than a healthy world to live in.

—2023 Plant Northern Piedmont Natives Steering Committee

PHYSIOGRAPHIC MAP



INTRODUCTION

A decade has passed since the first publication of “Piedmont Native Plants—A Guide for Landscapes and Gardens” and we’ve accomplished a great deal of exciting progress. Several thousand gardeners, landowners and landscape professionals now have copies of our region’s flagship native plant publication while an increasing number of retailers are selling both the Guide and more native plants.

Even more exciting is the expanding involvement of Master Gardeners, part of Virginia’s Cooperative Extension program located in every county. The Master Gardener Program is a partner in our Northern Piedmont native plant campaign which is part of the statewide Plant Virginia Natives Marketing Partnership. Locally, Master Gardeners are planting and maintaining native plant gardens in parks and public areas throughout our region. In addition, Master Gardeners are fielding questions from the public, visiting nurseries to label native plants and providing educational materials, such as brochures and informational fliers.

So, what’s new in this Guide? Information including:

- New species that are more regionally native
- Additional demonstration sites that are open to the public and spread across the region
- A carefully curated list of websites where readers can find more information and resources about native plants
- A QR code that takes readers to an interactive map of more locations to see and enjoy public sites with native plantings and landscapes.



Although many of us recognize the benefits provided by Northern Piedmont native plants, it bears repeating: these plants maintain the unique ecological balance in our landscapes while providing ecosystem services like soil stabilization, improved air quality, watershed protection and habitat for pollinators, birds and other wildlife.

While this Guide includes a wide selection of highly aesthetic, adaptable and durable native plants for our landscapes, we encourage you to explore and think more broadly about plant communities— assemblages of native plants that tend to grow together in given habitats and conditions—rather than individual plants. Gardens fashioned with native plant communities in mind create more natural environments that allow for an abundance of wildlife species beyond what individual native species might generate. For more information about plant communities in Virginia and the Northern Piedmont area, refer to this website:

<https://www.dcr.virginia.gov/natural-heritage/nchome>

We hope you will join us and grow Northern Piedmont native plants into the next decade!

PIEDMONT NATIVE PLANT HERITAGE

In this guide, Piedmont native plants are defined as plants that evolved in this region before influences of European settlements at Jamestown began to shape and change the landscape. There is strong evidence that the Monacan Nation and other indigenous peoples living on the lands that are now Virginia have contributed to the alteration of the landscape by cultivating and relocating species over the last 14,000 years. Historically, the eastern part of the United States was covered with an expansive mixed hardwood forest with scattered open areas.

Plants included in this guide were selected from the Virginia Flora App and occur naturally with the region included in this publication, although some species are rare and infrequent.

Virginia and Plants

Virginians have a long history of importing plants from distant lands. Some of these plants were used for agriculture, while others were used to remind transplanted people of their homeland. As world trade and discovery increased, exotic plants became trophies to be collected in landscapes and gardens. The post-World War II movement led to the advent of the middle class, home ownership, subdivisions, and turf landscaped yards. These yards became a prominent symbol of status and economic security. While lawns may appear neat and tidy, they offer very little ecological value. Manicured yards offer virtually no shelter or forage for wildlife and provide meager support for rainwater absorption and stormwater mitigation. Around the same time that subdivisions and urban development began to increase, farming rapidly

modernized. Farming practices focused solely on maximizing production and, as a result, every square inch of land was utilized. Naturally vegetated hedgerows were cleared, which reduced the transition area between fields and woodlands or wilder areas, and eliminated critical habitat. The intersection of field and forest plant communities, often called “edge habitat,” usually has greater diversity than either of the two plant communities alone, and as a result, adds incredible value to wildlife.

Virginians Return to Native Plants

Over the past few decades there has been a renewed interest in native plants. This shift began with a cultural awakening to the loss of Virginia’s ecological heritage. The beautiful wildflowers and natural places that Virginians had grown up with as children were rapidly disappearing, and along with them the bees, butterflies, birds and other species that dwelled in these wild spaces. However, as far back as the mid-1800s, botanists and naturalists were aware of the increasing loss of “wildflowers” and their habitats. Their concern gave rise to activism, and native plant and wildflower preservation societies began to take shape around the country. These societies began to explore natural areas and investigated native plant communities wherever they could find them—in their neighbor’s back field, state parks, or roadside hedgerows.

The Virginia Wildflower Preservation Society (VWPS) officially formed in 1982. VWPS originally focused on the rescue and relocation of native plants, but in the 1990s, it changed its mission to preserving

native plant habitats and its name to the Virginia Native Plant Society. Since this group’s formation, other groups have emerged around the Commonwealth as advocates of native plants. On the state level, the Department of Conservation and Recreation formed the Virginia Natural Heritage program in the 1990s. This program is dedicated to preserving Virginia’s biodiversity through science-based conservation. These groups and programs strive to educate their members and the greater public about the importance of preserving native flora and fauna. This wave of native plant knowledge has continued to grow in wisdom and strength.

Living Landscape Benefits

Living landscapes are diverse and dynamic systems that benefit the vitality of nature and people by sustaining the healthy ecosystems that support our farms. In 2011, **Forbes magazine identified our region as the epicenter of the locavore, or local consumption movement.** Locavores are consumers who strive to

eat food or purchase products that are locally produced. This cultural movement has given rise to community organized ventures that promote local food in the Virginia Piedmont, like the Buy Fresh Buy Local campaign, local food hubs, and continued popularity of farmers markets. Interest in local food has inspired Virginians to take a closer look at how they connect to the world and ecosystems around them.

This guide is an introduction to creating and developing a successful living landscape. It provides a basic understanding of how habitats, plant communities, and ecosystems can be incorporated into your garden and landscape design plans. You will also find a list of places you can visit that inspire and demonstrate successful incorporation of native plants into the designed landscape. This guide will provide readers with a baseline knowledge of the Virginia Piedmont’s native plants in hopes that through this knowledge we can all become better stewards of our living landscapes.



Sheryl Pollock Brown Belted Bumblebee on *Asclepias* sp.



Sheryl Pollock Chickweed Geometer Moth

HABITAT & LIVING LANDSCAPE DESIGN

What is habitat? We are taught that habitat is a series of components (space, food, shelter, and water) and how they interact with each other. On paper this seems fairly straightforward, but what does habitat look like in the real world? And how do we create it?

Perhaps the best way to answer these questions is to rustle up some old memories from eighth grade science class. Picture that vintage ecosystem diagram from your textbook: organisms, both plant and animal, working together. Each one with a specific job, layer on top of layer, working in unison. And within each niche of that ecosystem there are components functioning together to create habitats.

Habitat can range in size from microscopic, to a corner of your yard, or to the size of Shenandoah National Park. For the creatures that live in these habitats, like the bacteria, swallowtail butterfly, and

black bear, these habitats provide what they need for survival and the propagation of their species. Quite often these habitats overlap and we see the bacteria, swallowtail, and bear all operating within the same system. This is our goal: to create functional habitats that support interconnectivity of a diversity of flora and fauna—a goal that can be attained in your own backyard.

In this guide you will find the necessary information to establish habitat, beginning with the powerful building blocks that can create space, provide shelter and food, and influence the water cycle—native plants. Most of our traditional garden plants originally came from other countries, and more important, other ecosystems. They have not evolved with our local ecosystems, and as a result, are not as readily used by wildlife and do not provide the same ecosystem services as their native counterparts.

Many of the beautiful butterfly species that emerge in the spring and summer come from caterpillars whose survival depends on a 99% native plant diet. In recent years, backyard bird feeding and bird watching activities have exploded in popularity. Although many common songbirds do visit bird feeders for seeds, grain or suet, ultimately these songbird species must have insects to rear their young. Fledglings require a diet high in insect protein in the spring and summer months. As a result, 96% of bird fledglings' diet is caterpillars, the same caterpillars that depend on native plants for their existence. Many of these concepts were described by Dr. Doug Tallamy in his seminal book *Bringing Nature Home*. Adding natives to your landscape helps to reestablish these important food webs and provides real structure for pollinator and songbird populations.

Constructing habitat in your backyard begins with viewing your land as a

unified, functioning space. Noting the way different aspects interact with each other can set you on the right course for understanding your land's natural functions. Taking stock of the surrounding land use and its relation to your property is another important step, and should factor into your landscape plans. Reestablishing habitat corridors within fragmented landscapes is exceptionally important. If your property lies between two forest tracts, for example, creating healthy edge habitat or reforesting a section of your property to link the tracts could be very beneficial to wildlife. Or perhaps you are in an area devoid of any quality habitat, in which case, your yard can act as an oasis against the surrounding harsh land use.

After looking at your property as a unit (using an aerial photo might be helpful), ask yourself these questions: What is already there? Are there any wild spaces? Is there an area that birds or other wildlife might already be using? Are there areas



Mary Lee Epps

Great Spangled Fritillary on *Asclepias tuberosa*

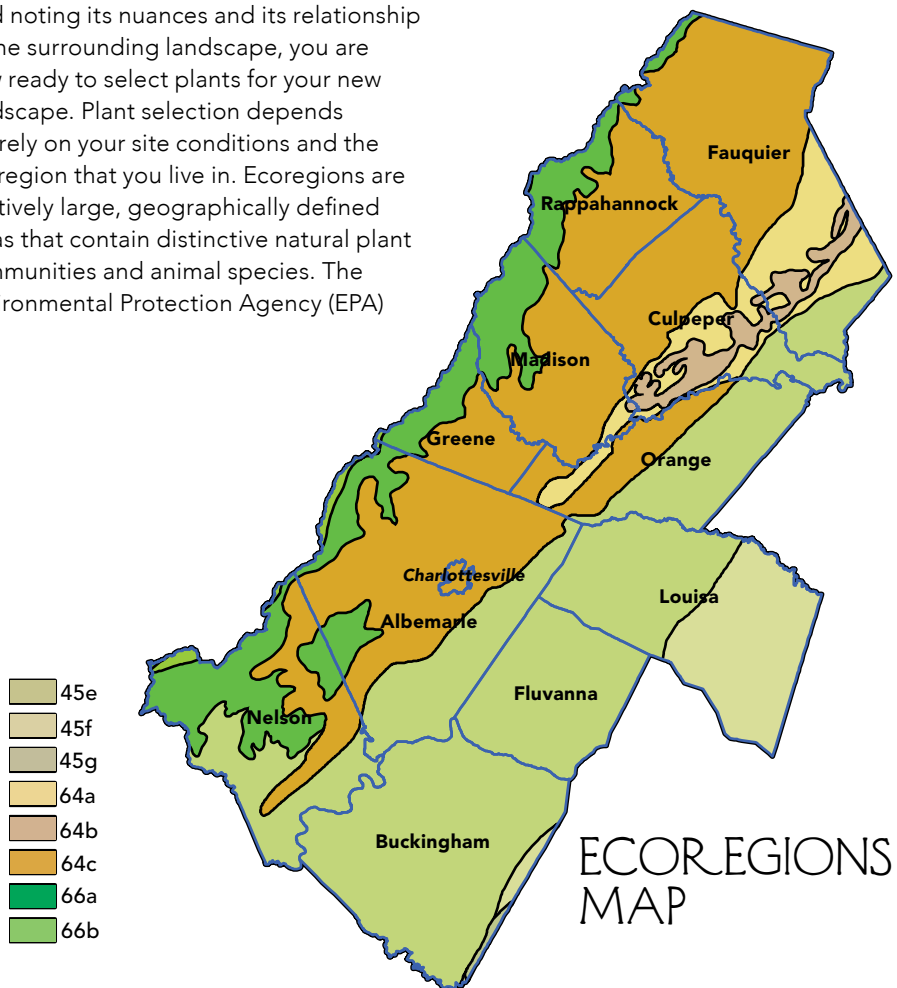
with erosion or flooding issues? Managing an existing habitat may be a simpler task than creating one from scratch. View your property as a whole and then identify ways to restore and create habitat.

Deeper Concepts: Going To the Next Level

This guide provides the basic elements to successfully incorporate Piedmont native plants into your landscape, but the concepts run deeper.

Once you've spent some time in your yard noting its nuances and its relationship to the surrounding landscape, you are now ready to select plants for your new landscape. Plant selection depends entirely on your site conditions and the ecoregion that you live in. Ecoregions are relatively large, geographically defined areas that contain distinctive natural plant communities and animal species. The Environmental Protection Agency (EPA)

has drawn maps to delineate boundaries of ecoregions. What differentiates one ecoregion from another is the underlying geographical phenomena such as geology, hydrology, soil, and vegetation, among others. Understanding which ecoregion your property is located in helps you understand the plant community distributions you will need to identify before selecting plants for your biodiverse garden. A map and description of each Piedmont ecoregion can be found on the following pages.



Northern Inner (45e)

Soils: clay-rich and acidic

Plant Community: oak, pine, hickory

Northern Outer (45f)

Soils: acidic, nutrient-poor clay soils

Plant Community: oak, pine, hickory

Triassic Uplands (45g)

Soils: clay, low-base, and moderately acidic, pockets of high-base soils

Plant Community: oak, pine, hickory

Triassic Lowlands (64a)

Soil: moderate-base, pockets of acidic, mostly clay, nutrient rich

Plant Community: hickory, redbud, cedar, hackberry

Diabase & Conglomerate Uplands (64b)

Soil: basic, nutrient-rich, fine and shallow

Plant Community: hickory, ash, hackberry, redbud, cedar and spicebush, all in various stages of succession

Piedmont Uplands (64c)

Soils: greatly diverse

Plant Communities: Blue Ridge edge border—white and northern red oak; Southern boundary—pine and hickory; Northern extent—maturing oak transitioning into beech and maple

Northern Igneous Ridges (66a)

Soils: low fertility, acidity, stoniness, and steepness

Plant Community: White and red oaks

Northern Sedimentary & Metasedimentary Ridges (66b)

Soils: Stoniness, steepness, low fertility, and acidity

Plant Community: White & red oaks



Scott Clark

Northern Mockingbirds

Learning about your ecoregion's native plant communities (a collection of associated plants within a specific geographical unit) can also help you to determine how to approach creating habitat in your yard. Viewing our state's wild areas will give you an idea of what the ecosystems historically looked like in your area. See page 104 for Native Plant Demonstration Sites.

Remember that an ecosystem is a composite of layers of living things. As such, your landscape design should mimic this concept. Layering plants with different heights creates ecological niches and eliminating areas lacking cover in your yard will make your site a safer place for diversity. Layers can also enhance the visual aesthetic and add interesting texture. Incorporating small brush piles, bird nest boxes and water features, and leaving snags (dead trees) will also help to provide shelter and nesting sites for birds, pollinators, reptiles, amphibians, and small mammals.

As you begin to restore the natural processes of your land, remember to enjoy yourself! Delight in learning the names of newfound woodland spring flowers and appreciate the brilliant blooms of a native wildflower summer meadow. Our native plants are our ecological heritage and we should celebrate their comeback.

KEY TO USING THIS GUIDE

Plants are organized within each section according to bloom times from spring to autumn due to the importance of having something in flower throughout each season. Continuous blooming is important to gardens for both aesthetics and to support pollinators and other wildlife.

Bees of all types are our greatest pollinating force. European honey bees, native bees and bumblebees are separated out from pollinators in the *Wildlife Benefits* section for each plant. European honey bees will keep visiting the same species of flower over and over while bumblebees prefer a greater diversity of species all in one location. Wasps have been included with native bees. Bees and wasps get a reputation from a very few rotten apples like yellow jackets, some non-native hornets and African bees.

Generally speaking, solitary bees and wasps are almost always non-aggressive while on flowers.

Soil types vary considerably throughout Virginia. The soil pH given is a loose approximation of where the plant grows in nature. Many of these plants will grow outside their pH level, but will end up having stunted growth, which may be a good thing depending on your application or other heights in you garden. Experimentation is encouraged.

Contact your local county Cooperative Extension Office at www.ext.vt.edu/offices or your local Soil and Water Conservation District to learn how to get your soil tested. For more information on soils visit: USDA Soil Survey (websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx).



Scientific Name | Common Name



Photography Attribute

Wildlife benefits

- HEIGHT: (at maturity)
- BLOOM COLOR:
- BLOOM DATE:
- SOIL: (Type, pH)
- NATURAL HABITAT:

Additional Information

Conditions Defined:

LIGHT REQUIREMENTS

- Full Sun: 6 + hours of sun
- Part Shade: 2-6 hours of sun
- Shade: 2 hours or less of sun

MOISTURE REQUIREMENTS

- Dry, no signs of moisture
- Moist, looks and feels damp
- Wet, saturated

RARE AND INFREQUENT SPECIES

This icon will be used to indicate rare and infrequent species.



WILDFLOWERS

Aquilegia canadensis | Wild Columbine



Gerry Bishop ©

- HEIGHT: 1 – 2 ft
- BLOOM COLOR: Red and yellow
- BLOOM DATE: Mar – May
- SOIL: Adapatable, rocky; pH moderate-base
- NATURAL HABITAT: Forests, outcrops

After an initial burst of blooms in the spring, it may produce occasional blooms in the summer. In the right conditions will self-seed readily. Semi-evergreen.

Flowers attract bumblebees, butterflies, hummingbirds. Native Columbines host 12 species of native caterpillars.

Geranium maculatum | Wild Geranium, Cranesbill



Shenandoah Park

- HEIGHT: 1/2 – 2 ft
- BLOOM COLOR: White, pink, purple
- BLOOM DATE: Apr – June
- SOIL: Dry – Adaptable, rich, well drained; pH acid-base
- NATURAL HABITAT: Mountain coves, wooded riversides, forests

Thrives in garden environments. Palmate leaves are attractive.

Flowers attract honey bees, bumblebees, other pollinators. Seeds attracts game birds, song birds. Native Geraniums host 23 species of native caterpillars.

Penstemon canescens | Gray Beardtongue

Homer Edward Price

- HEIGHT: 1/2 – 3 ft
- BLOOM COLOR: White, purple, pink
- BLOOM DATE: May – July
- SOIL: Adaptable, rocky, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, barrens, clearings, roadsides

Thrives in rock gardens and rocky slopes.

Flowers attract native bees, bumblebees, butterflies, hummingbirds. Native Penstemons host eight species of native caterpillars.

Coreopsis verticillata | Threadleaf Coresopsis

Betty Truax

- HEIGHT: 1/2 – 3 ft
- BLOOM COLOR: Yellow, orange
- BLOOM DATE: May – July
- SOIL: Sandy, rocky, loam, well drained; pH acid-moderate
- NATURAL HABITAT: Woodlands, barrens, clearings, road banks

Deadheading will repeat bloom. Drought tolerant once established.

Flowers attract native bees, butterflies. Native Coreopsis host six species of native caterpillars.

Rudbeckia hirta | Black Eyed Susan

Betty Truax

- HEIGHT: 1 – 3 ft
- BLOOM COLOR: Golden yellow
- BLOOM DATE: May – July
- SOIL: Adaptable, rich, well-drained; pH acid-moderate
- NATURAL HABITAT: Fields, roadsides, clearings

Recommended for restoration of disturbed areas and prairies. Drought tolerant once established. Good cut flower. Cultivars are generally not hardy.

Flowers attract native bees, butterflies, pollinators. Foliage attracts game birds, song birds. Native Rudbeckia host 16 species of native caterpillars including Common Sulphur, Cloudless Sulphur, Silvery Checkerspot butterflies.

Asclepias tuberosa | Butterfly Weed

Shenandoah Park

- HEIGHT: 1 – 3 ft
- BLOOM COLOR: Neon orange, yellow, red
- BLOOM DATE: May – Aug
- SOIL: Rocky, poor, well-drained; pH moderate
- NATURAL HABITAT: Woodlands, fields, roadsides

Good drainage is essential. Does not transplant well, has long taproot. Drought tolerant once established. All parts of this plant are toxic.

Flowers attract honey bees, native bees, butterflies, pollinators, hummingbirds. Native milkweeds host 12 species of native caterpillars including Monarch butterflies.

Heliopsis helianthoides | Ox Eye

- HEIGHT: 1 – 5 ft
- BLOOM COLOR: Yellow
- BLOOM DATE: May – Oct
- SOIL: Loam, clay, rocky; pH moderate-base
- NATURAL HABITAT: Open forests, woodlands, clearings, meadows, roadsides

Long bloom time. Good cut flowers. Drought tolerant once established. May need to be staked in semi-shady conditions.

Flowers attract honey bees, native bees, bumblebees, butterflies, pollinators. Native *Heliopsis* hosts two species of native caterpillars.

Asclepias incarnata var. pulchra | Swamp Milkweed

- HEIGHT: 1 – 5 ft
- BLOOM COLOR: Pink, ruby
- BLOOM DATE: July – Sept
- SOIL: Rich, tolerates clay; pH moderate
- NATURAL HABITAT: Open swamps, wet meadows

Fragrant blooms. Elegant seed pods filled with silky down. Do not let plant dry out in the spring.

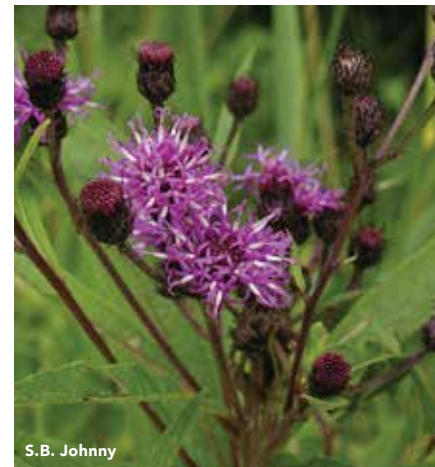
Flowers attract honey and native bees, bumblebees, butterflies, & hummingbirds. Native Milkweeds host 12 species of native caterpillars, including Monarch butterflies.

Monarda fistulosa | Wild Bergamot

- HEIGHT: 1 – 4 ft
- BLOOM COLOR: Pale lavender, white, red, pink
- BLOOM DATE: June – Sept
- SOIL: Adaptable, rocky, rich; pH moderate-base
- NATURAL HABITAT: Upland forests, woodlands, clearings, forest edges, meadows, fields, roadsides

Works well at the middle or back of the garden with sufficient sun. Can spread quickly. Obligate species in local meadows. Pairs well with little bluestem. Tea made from the leaves has an Earl Grey-like flavor.

Flowers attract native bees, bumblebees, butterflies, pollinators, hummingbirds. Native *Monarda* host seven species of native caterpillars.

Vernonia noveboracensis | New York Ironweed

- HEIGHT: 3 – 7 ft
- BLOOM COLOR: Magenta to raspberry
- BLOOM DATE: July – Sept
- SOIL: Rich; pH acid-moderate
- NATURAL HABITAT: Floodplain forests, swamps, riverbanks, wet meadows, fields

Can be cut back in early summer to control height and promote increased blooms. Great plant for use in border gardens.

Flowers attract native bees, butterflies. Native Ironweeds host 16 species of native caterpillars.

***Pycnanthemum* | Mountain Mints** (pik-NAN-tha-mum)

With their silvery green foliage and prolific summer blooms, the Mountain Mints should be a cornerstone for any pollinator garden. They consistently attract the greatest number and diversity of insect pollinators in the Piedmont region. A 2013 Penn State Extension Office study found that *P. muticum* had one of the longest bloom times, topping out at ten weeks.

As a member of the mint family, *Pycnanthemum* do have a minty aroma and grow in hearty clumps, which can form large masses in an open landscape. While this attribute is beneficial when the intended goal is to restore a naturalized area, in a small garden *Pycnanthemum* will need to be placed in a well-structured design where plant-to-plant competition will help to keep it in check.

Flowers attract greatest diversity and number of pollinators. Rarely bothered by leaf-chewing insects. Native Mountain Mints host three species of native caterpillars and support beneficial insects. Spreads by underground rhizomes forming small colonies; good for soil stabilization. Prune if necessary in spring.

- HEIGHT: 1 – 4 ft
- BLOOM COLOR: White, some with occasional magenta speckles
- BLOOM DATE: June – Aug
- SOIL: Well-drained; pH acid-base



James H. Miller & Ted Bodner

Pycnanthemum incanum
Hoary Mountain Mint



SOIL: Loam, sand, rocky, well drained; pH acid-base

NATURAL HABITAT: Forests, barrens, clearings, roadsides, meadows

Fuzzy grayish leaves add interest near upper leaves.



Betty Truax

Pycnanthemum muticum
Short Toothed Mountain Mint



SOIL: Rich

NATURAL HABITAT: Wet meadows, clearings

Flowers best in full sun; least drought tolerant of the four. Strong spearmint fragrance.



Betty Truax

Pycnanthemum tenuifolium
Narrow Leaf Mountain Mint



SOIL: Loam mix

NATURAL HABITAT: Meadows, clearings, roadsides, riverside, outcrops

Similar to Virginia Mountain Mint, but no fuzz on stem, less of a mint fragrance.



David G. Smith

Pycnanthemum virginianum
Virginia Mountain Mint



SOIL: Moist; rich, sand, loam, clay

NATURAL HABITAT: Spring marshes, wet meadows, clearings

During drought plant may lose lower leaves. May have magenta speckles on flowers.

Eupatorieae tribe | Boneset, Joe Pye, Mistflower & Thoroughwort
formerly Eupatorium (u-pa-TOR-i-um)

If you are looking for large clusters of fluffy flowers in purple, white, or blue that are pollinator magnets with late summer blooms, consider this group of plants. The *Eupatorieae* tribe, formerly known as *Eupatorium*, has been divided into three genera, *Conoclinium*, *Eutrochium*, and *Eupatorium*. Mistflowers (*Conoclinium*) and thoroughworts (*Eupatorium*) are sun-adoring plants, while bonesets and white snakeroot (*Eupatorium*) will do well in a shade garden. *Eutrochium*, or Joe Pye Weeds, are recommended as a native alternative for butterfly bush because they are so successful at attracting butterflies as well as other pollinators. Aside from providing important nectar and

pollen, *Eutrochium fistulosum* is also highly valued by bees for its stems, which are often used by cavity nesting native queen bees to create a bee nursery. Most of our native bees are solitary and do not form colonies, like honeybees. The stem is hollowed out by the queen, and one by one, the queen lays her eggs in the stem, forming compartments between each one with mud or plant material; the eggs hatch, pupate and remain all winter until emerging in spring. Flowers attract native bees, butterflies, pollinators. Seeds attract songbirds. The *Eupatorieae* tribe hosts 40 species of native caterpillars including striking Tiger moth, Clymene.

- HEIGHT: 1 – 5+ ft
- BLOOM DATE: July – Oct
- SOIL: Rich, loam with sand, rock, well drained; pH acid-moderate



Betty Truax

Conoclinium coelestinum
Mistflower

NATURAL HABITAT: Floodplain forests, swamps, meadows, clearings

BLOOM COLOR: Pink, lavender, blue

Great plant to use in a garden bed. If it is happy, it may crowd other plants. May not bloom in full shade.



David G. Smith

Eupatorium hyssopifolium
Hyssopleaf Thoroughwort

NATURAL HABITAT: Woodlands, barrens, ditches, clearings, roadsides

BLOOM COLOR: White

Does well in dry border areas. Flowers have the appearance of babies' breath and adds interest throughout the winter.



Gerry Bishop ©

Eupatorium perfoliatum
Boneset

NATURAL HABITAT: Floodplain forests, wet meadows, fields, ditches

BLOOM COLOR: White

The fibrous root system frequently forms small colonies. Flowers are fragrant and its perfoliate leaves set it apart from the others listed here.



David G. Smith

Eutrochium fistulosum
Hollow Joe Pye Weed

NATURAL HABITAT: Floodplain forests, swamps, riverbanks, wet meadows, ditches

BLOOM COLOR: Purple, pink

Can form large colonies; give it room. Flowers are fragrant, and can reach 8 feet tall. Stems are used by native bees.



Gary Fleming

Eutrochium purpureum
Sweet Joe Pye Weed

NATURAL HABITAT: Wet meadow, barrens, floodplain forests

BLOOM: Pink, purple

Nice architectural form of seven feet can make a nice background. Flowers have a vanilla scent. Is a great replacement for Butterfly Bush.



Lobelia cardinalis | Cardinal Flower



Scott Clark

Flowers attract native bees, bumblebees, butterflies, pollinators, hummingbirds. Native Lobelia host four species of native caterpillars.

- HEIGHT: 1 1/2 – 8 ft
- BLOOM COLOR: Red
- BLOOM DATE: July – Oct
- SOIL: Loamy, sandy loam, or gravelly soil with organic material; pH acid-base
- NATURAL HABITAT: Floodplain forests, swamps, wet meadows, ditches

In winter, keep base leaves clear of leaf litter. Water during droughts; roots need to remain moist. Deer browsing damages young plants. Tends to be biennial or short-lived, but self-seeds if happy. All parts of the plant are toxic.

Liatris pilosa | Blazing Star, Grassleaf Gayfeather



Tony Russell

Flower attracts bees, butterflies, hummingbirds. Native Blazing Stars host four species of native caterpillars.

- HEIGHT: 1 1/2 – 4 ft
- BLOOM COLOR: Lavender
- BLOOM DATE: Aug – Nov
- SOIL: Poor-average loam with sand, gravel, clay; pH acid-moderate
- NATURAL HABITAT: Dry woodlands, shale barrens, clearings, roadsides

Looks good when planted together with the yellow, fall-blooming native plants like goldenrods. Attracts migrating Monarch butterflies in the fall.



Betty Truax

Lobelia siphilitica



Betty Truax

Iris cristata

Solidago | Goldenrods

(sol-i-DAE-go)

There are a multitude of Goldenrod species to choose from, so there is a *Solidago* for just about every type of garden situation. Flowers and foliage attract beneficial insects including European honey bees, native bees, butterflies, and pollinators. Insects attract songbirds and gamebirds. *Solidago* support the greatest number of caterpillars of any of the Piedmont wildflowers—it hosts 112 species! Its golden plumes arrive in late summer and continue into fall, making it one of our best autumn butterfly and bee plants.

Goldenrods and ragweeds both bloom at the same time and the hay fever caused by ragweed is often blamed on goldenrod. The heavy pollen of *Solidago*, however, can only be transported by insects,

while the tiny pollen molecules of ragweed's green flowers are pollinated by the wind, and can aggravate seasonal allergies.

Goldenrod is a classic prairie species and can be seen dotting summer fields across the Piedmont. *Solidago* species vary considerably in height, condition requirements, and bloom structure; therefore, many appear quite different from the common field goldenrods that most of us are used to seeing. Many goldenrods can spread by rhizomes and have chemical properties that can negatively affect the root growth of other other species, such as maples. Many goldenrod species can be well-behaved, eye-catching and a nice addition to the late summer garden.

- BLOOM DATE: Aug – Oct
- BLOOM COLOR: Pale to bright yellow
- SOIL: pH acid-base.



Sheryl Pollock

Euthamia graminifolia Flat-top/Grassleaf Goldenrod



SOIL: Sand, well-drained

HEIGHT: 1 – 5 ft

NATURAL HABITAT: Roadsides, riverbanks

Has multiple, fine-texture flower clusters which are widespread. Can be aggressive. Do not plant near crops such as radish or lettuce, or near maple trees.



Janet S. Davis

Solidago flexicaulis Zigzag Goldenrod



SOIL: Rich, well-drained

HEIGHT: 1 – 4 ft

NATURAL HABITAT: Swamps, sheltered outcrops

Flower cluster are in the leaf axils. Great plant for a woodland garden. Deer resistant.



Sheryl Pollock

Solidago nemoralis Gray Goldenrod



SOIL: Poor loam with sand, clay, gravel

HEIGHT: 1 – 4 ft

NATURAL HABITAT: Barrens, roadbanks

Flower cluster is wandlike. Effective groundcover in harsh conditions and in rock gardens, butterfly gardens, and meadow plantings.



David G. Smith

Solidago rugosa Wrinkleleaf Goldenrod



SOIL: Loam with sand, clay, gravel

HEIGHT: 1 – 8 ft

NATURAL HABITAT: Floodplains, swamps

Flower cluster varies with age of plant. Leaves have indented veins. Works well in wild gardens and meadows.



Tana Herndon

Solidago speciosa Showy Goldenrod



SOIL: Loam, clay

HEIGHT: 1 – 6.5 ft

NATURAL HABITAT: Roadbanks

This late bloomer is considered one of the prettiest wildflowers for a butterfly flower garden or meadow. It attract hummingbirds.

Symphotrichum | Asters (SYM-fi-o-TRI-cum)

When the season is almost over for most garden plants, Asters shine as the latest flowering genus with a kaleidoscope of petal colors ranging from sky blue to deep purple, pink to white, with centers of gold to scarlet. Not only do Asters give gardens one last gasp of beauty, they also play an important role in our landscapes by supporting beneficial insects, like pollinators. Of all the native wildflowers in the Piedmont, Asters may be the best food source for migrating and overwintering Monarch butterflies, European honey bees, native bees, bumblebees and other

pollinators! Native *Symphotrichum* are host plants for 112 species of native *Lepidoptera* (moths and butterflies) caterpillars. Some of these butterflies include Pearl and Tawny Crescent, and Silvery and Harris' Checkerspot. The foliage also attracts gamebirds. However, their showiness and importance does not end with the coming of winter. For example, New England Aster offers amazing color and structure in its large button-like seed heads. Asters are highly variable and, as such, there are species for shade, sun, wet, average, and dry conditions.



Richard Stromberg

Symphotrichum laeve
Smooth Aster ☀️☁️
💧💧

HEIGHT: 1 – 3 ft

BLOOM COLOR: Pale blue

NATURAL HABITAT: Forests, woodlands, barrens, clearings

Good garden bed plant. Lower leaves drop in early autumn while upper leaves remain until frost. Good for erosion control.



Richard Stromberg

Symphotrichum lateriflorum
Calico Aster ☀️☁️
💧💧💧

BLOOM HEIGHT: 1 – 4 ft

BLOOM COLOR: White, gold centers

NATURAL HABITAT: Forests, swamps, meadows, roadsides

Great plant for moist woodland garden. Likes disturbed areas. Adaptable to various soils.



Janet S. Davis

Symphotrichum novae-angliae ☀️☁️
New England Aster
💧

HEIGHT: 1 – 8 ft

BLOOM COLOR: Purple

NATURAL HABITAT: Meadows, roadsides

Two month bloom time. Little Bluestem or Joe Pye can provide structure to prevent 'top flop'. Can spread rapidly.



Richard Stromberg

Symphotrichum oblongifolium ☀️☁️
Aromatic Aster Ⓞ
💧💧

HEIGHT: 0.5 – 3 ft

BLOOM COLOR: Violet

NATURAL HABITAT: Rock outcrops

Groundcover; can be mowed at 4 in. Spreads by underground stolons. Great plant for habitat restoration.



Sheryl Pollock

Symphotrichum puniceum ☀️☁️
Purplestem Aster
💧💧

HEIGHT: 0.5 – 8 ft

BLOOM COLOR: Purple

NATURAL HABITAT: Swamps, floodplains, forests, meadows

Great tall plant for back of garden or raingarden.



Betty Truax

Eurybia divaricata ☀️☁️
White Wood Aster
💧💧

HEIGHT: 0.5 – 3 ft

BLOOM COLOR: White, yellow centers

NATURAL HABITAT: Forests, outcrops, floodplain

Works well in masses in rich, woodland gardens. Blooms as early as August.

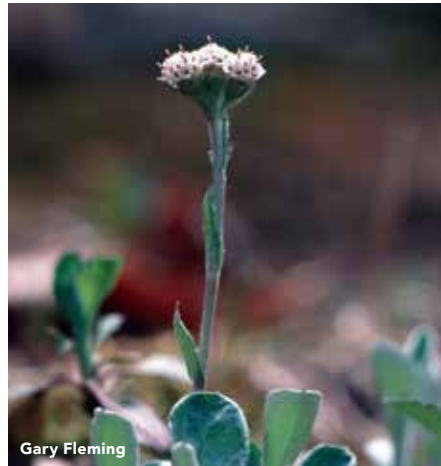


GROUNDCOVERS

Repp Glaetli

Viola pedata

Antennaria plantaginifolia | Pussy Toes



Gary Fleming

- HEIGHT: 3 – 6 in
- BLOOM COLOR: White
- BLOOM DATE: Mar – May
- SOIL: Clay, sandy, rocky, poor, well-drained; pH acid-base
- NATURAL HABITAT: Forests, clearings, meadows, road banks

Soft and fuzzy plants that tend to form colonies. Male and female flowers are borne on separate plants. Can mow at four inches after flowering. Drought tolerant.

Flowers attract early native bees, pollinators. Seeds and foliage attract gamebirds including Bobwhite Quail. Native Pussytoes host 6 species of native caterpillars including American Painted Lady.

Waldsteinia (Geum) fragarioides | Barren Strawberry



Gary Fleming

- HEIGHT: 3 – 8 in
- BLOOM COLOR: Yellow
- BLOOM DATE: Mar – May
- SOIL: Adaptable, loam, clay, rich, well drained; pH acid-base
- NATURAL HABITAT: Upland forests, rocky woodlands, bluffs, stream banks

Barren strawberry is evergreen to a temperature of fifteen degrees Fahrenheit. Spreads slowly by rhizomes to make an excellent, non-aggressive groundcover.

Flowers attract early native bees, bumblebees. Native Geums host two species of native caterpillars.

Chrysogonum virginianum | Green and Gold

- HEIGHT: 6 – 12 in
- BLOOM COLOR: Yellow, Gold
- BLOOM DATE: Mar – June
- SOIL: Adaptable, rocky, well drained; pH acid-moderate
- NATURAL HABITAT: Upland forests, woodlands

Blooms sporadically throughout the summer if kept moist. Tolerates light foot traffic. Recommended by the National Park Service as one replacement for the invasive English Ivy.

Flowers attract early native bees, pollinators. Foliage supports pollinators.

Erigeron pulchellus | Robins Plantain

- HEIGHT: 4 – 24 in
- BLOOM COLOR: Light pink, light violet
- BLOOM DATE: Apr – June
- SOIL: Adaptable, rocky, well drained; pH acid-base
- NATURAL HABITAT: Forests, woodlands, clearings

Forms small colonies, via rhizomes, that can withstand light foot traffic. Can be mowed at four inches. Keep rosette of leaves from being covered by autumn leaf litter. Do not confuse with other more weedy plants in the genus, often called fleabane.

Flowers attract native bees, bumblebees, butterflies, pollinators. Native Erigeron host 15 native caterpillars.

Packera aurea | Golden Ragwort

- HEIGHT: 6 – 24 in
- BLOOM COLOR: Yellow
- BLOOM DATE: Mar – June
- SOIL: Loam, clay, rich; pH acid-base
- NATURAL HABITAT: Floodplain forests, seeps, stream banks, moist meadows

Powerful bloomer. Can be used as Daisy-like cutflower. Give room in wetter conditions. May need more moisture when planted in full sun. Foliage has a mild liver toxicity when ingested.

Flowers attract early native bees and pollinators. Native Packera host 17 species of native caterpillars.

Tiarella cordifolia | Foamflower

- HEIGHT: 6 – 12 in
- BLOOM COLOR: White, pink
- BLOOM DATE: Apr – June
- SOIL: Loam, rich; pH acid-base
- NATURAL HABITAT: Cove forests, slope forests, shaded rock outcrops

Clouds of foamy white to pink flowers give these plants their common name. Spreads quickly when conditions are suitable by above ground runners called stolons. Not drought tolerant, but will also rot in un-drained soils. Semi-evergreen heart-shaped leaves.

Flowers attract native bees, butterflies, pollinators.

Viola | Violets
(vi-O-la)

Viola, the violets, are surely considered one of the first signs of spring. Violets thrive in shady parts of the yard, and can also double as a groundcover. Some *Viola* species maintain a winter presence, which will give them year-round interest in your landscape. *Viola blanda* is at least one species that is fragrant. All *Viola* can have diversity of color and form.

Species vary in their preference to moisture and drainage, which presents a better opportunity to get the right violet for your space. Violets are not considered a valuable source of nectar, but they are a

host for 27 species of caterpillars including the Greater and Lesser Fritillary butterflies. Flowers attract native bees, bumblebees, butterflies, and pollinators. Seeds and foliage attract gamebirds including bobwhite.

Violets will seed freely around your yard but are easily pulled up if you want to tame their numbers.

Both flowers and leaves are edible, and considered delicious by many. Use them in salads, jellies or to decorate cakes. Do not eat blooms that have been treated with chemicals.

- BLOOM DATE: Mar – July
- SOIL: Adaptable; well drained: pH acid-base



Viola pubescens
Yellow Downy Violet

HEIGHT: 4 – 18 in

BLOOM COLOR: Yellow with purple veins

NATURAL HABITAT: Rich, floodplain, slope forests

Yellow forest violets produce small bud-like flowers that never open and self-pollinate. Prefers richer soils.



Viola pedata
Bird's Foot Violet

HEIGHT: 3 – 6 in

BLOOM COLOR: Dark purple, pale blue, bicolored

NATURAL HABITAT: Sandy forests, clearings, roadbanks, shale barren

Leaves are deeply divided into three to five palmate lobes, giving it a much different look than other violets. Ants help to distribute seeds. Does not tolerate poorly drained and heavy soils.



Viola sororia
Common Blue Violet,
Confederate Violet

HEIGHT: 2 – 6 in

BLOOM COLOR: Light blue, dark violet, white, bicolored

NATURAL HABITAT: Forests, fields, pastures, roadsides

Will tolerate full sun if provided with enough moisture. Can be mowed at four inches to allow this important plant to survive in lawns.



Viola striata
Striped Violet, Cream Violet

HEIGHT: 6 – 12 in

BLOOM COLOR: White with purple veins

NATURAL HABITAT: Upland forests, floodplain forests

Taller and longer blooming than many other Violas. Ants help to distribute seeds. Does not need pollinators for reproduction. It aggressively forms a thick ground cover but is too tall to invade lawns.



Phlox divaricata | Woodland Phlox



Betty Truax

- HEIGHT: 6 – 18 in
- BLOOM COLOR: Ghostly blueish – lavender
- BLOOM DATE: Apr – May
- SOIL: Adaptable, rich, well drained; pH acid-base
- NATURAL HABITAT: Floodplain forests

The haunting blue color, lowered maintenance, and plant longevity make this a great addition to any partial shade garden. *Phlox* is Greek for fire or flame – its twisted flower bud resembles a flame. Semi-evergreen.

Flowers attract native bees, bumblebees, butterflies, hummingbirds. Native *Phlox* host eight native caterpillars including Swallowtail butterflies, Clearwing, Hummingbird moths.

Phlox subulata | Moss Phlox



Gary Fleming

- HEIGHT: 3 – 6 in
- BLOOM COLOR: White, pink, lavender
- BLOOM DATE: Apr – May
- SOIL: Adaptable, well drained; pH moderate-base
- NATURAL HABITAT: Dry woodlands, exposed outcrops

Can be planted at the top of retaining walls to beautifully cascade over with spring blooms. Great rock garden plant; mat-forming, evergreen groundcover. There are many cultivars, straight species may tolerate more growing conditions.

Flowers attract butterflies. Native *Phlox* host eight native caterpillars.

Iris cristata | Dwarf Crested Iris



Gerry Bishop ©

- HEIGHT: 6 – 12 in
- BLOOM COLOR: Violet, light blue, white
- BLOOM DATE: Apr – May
- SOIL: Adaptable, rich, well drained; pH acid-base
- NATURAL HABITAT: Woodlands, bluffs, stream banks

Spreads quickly by rhizomes across the soil surface to form mat. Do not mulch, and carefully clear leaf litter in late winter. Drought tolerant and can be grown in full sun with adequate moisture.

Flowers attract native bees, bumblebees, hummingbirds. Native *Iris* host 12 native butterflies and moths.

Salvia lyrata | Lyre-leaf Sage



Gary Fleming

- HEIGHT: 12 – 30 in
- BLOOM COLOR: Light blue, violet
- BLOOM DATE: Apr – May
- SOIL: Adaptable, well drained; pH acid-base
- NATURAL HABITAT: Fields, roadsides, clearings, forests, floodplains

Basal leaves are semi-evergreen often with a purplish tinge in winter. Tolerates mowing at four inches after seed is produced. Tolerates drought and temporary flooding.

Flowers attract native bees, bumblebees, butterflies, hummingbirds. Native *Salvia* host five species of native caterpillars.

Oenothera fruticosa | Common Sundrops

Sue Dingwell

- HEIGHT: 12 – 30 in
- BLOOM COLOR: Yellow
- BLOOM DATE: Apr – Aug
- SOIL: Adaptable, gravel, well drained; pH acid-base
- NATURAL HABITAT: Forests, outcrops, clearings, ditches, fields, roadsides

Contrary to another one of its common names, Narrowleaf Evening Primrose, the flowers open in the morning and last a few days. Can become weedy especially in good soils. Drought tolerant.

Flowers attract native bees, butterflies, hummingbirds. Seeds attract songbirds, gamebirds. Native Oenotherae host 16 species of native caterpillars.

Juncus tenuis | Path Rush

Gary Fleming

- HEIGHT: 6 – 36 in
- BLOOM COLOR: Green to straw
- BLOOM DATE: June – Sept
- SOIL: Adaptable, rocky, poorly drained; pH acid-base
- NATURAL HABITAT: Fields, clearings, roadsides, paths

Often seen along the Appalachian Trail. Can tolerate foot traffic on paths. Ideal for streambanks, raingardens. More tolerant of drought than many other rushes.

Seeds attract songbirds, gamebirds. Native Juncus host six species of native caterpillars.

Eragrostis spectabilis | Purple Lovegrass

Sheryl Pollock

- HEIGHT: 12 – 24 in
- BLOOM COLOR: pale to bright purple
- BLOOM DATE: Aug – Oct
- SOIL: Sand, rocky, poor, well drained; pH moderate-base
- NATURAL HABITAT: Barrens, clearings, fields, roadsides

Best used in groupings or masses as the large, airy inflorescences create a purple haze visual effect. Naturally occurs with Hyssopleaf Thoroughwort and lovely in combination with its pollinator habitat value. Effective as erosion control. Drought tolerant.

Foliage provide pollinator habitat. Native Eragrostis host three species of native caterpillars including the Zebulon skipper.



Betty Truax

Chamaecrista fasciculata

GRASSES

Avenella flexuosa | Wavy Hairgrass

Seeds attract songbirds. Foliage provides cover and nesting for songbirds and gamebirds including bobwhite quail.

- HEIGHT: 18-24 in
- BLOOM COLOR: Green
- BLOOM DATE: Apr – Aug
- SOIL: Adaptable, rocky, well drained; pH acid-moderate
- NATURAL HABITAT: Mountain forests, woodlands, barrens, outcrops

Graceful feathery flowers. Cut stems can be used in floral arrangements. Cool season clumping grass can be used en masse on slopes. Green in spring and fall. Notable for being tolerant of shade, drought, salt.

Danthonia spicata | Poverty Oatgrass

Native Oatgrasses host various native caterpillars including Leonard's Skipper and Indian Skipper butterflies.

- HEIGHT: 4 – 24 in
- BLOOM COLOR: Straw
- BLOOM DATE: May – July
- SOIL: Sand, rocky, shallow, compacted, poor, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, woodlands, barrens, outcrops, clearings, old fields, pastures, roadsides

Interesting structure. Tufts of curly leaves provide winter interest. Being evaluated as an alternative turf. Valuable for stabilization of disturbed soils. Does well in a naturalized garden.

Carex | Sedges (KA-reks)

Carex, the sedges, are the unsung heroes of the "ornamental grass" world. Sedges are part of the Graminoid family which also includes grasses and rushes. Often overlooked as a landscape plant, sedges make a great backdrop for your flowering plants, adding both visual interest and contrast. In the wild, sedges are found in a wide array of habitats, which means that there are sedges for almost every landscape situation. All included here can be found in forests. Most of the sedge listed need full sun to part shade. These *carex*

are adaptable to most soil materials and pH conditions, but differ in the amount of soil moisture they need.

Offering unique value to wildlife, *Carex* display interesting, sometimes elaborate, structural flowers that bloom mainly between late April and June. Seeds provide food for turtles, songbirds, upland game birds, and wetland birds. *Carex* are the larval host for various moths and butterflies, including 36 species of skippers including Black Dash, Dion Skipper, Duke's Skipper, Dun Skipper, and Long Dash butterflies.



Betty Truax

Carex appalachica Appalachian Sedge

HEIGHT: 1 – 24 in

BLOOM COLOR: Rich green to yellow

SOIL: Adaptable, well drained

NATURAL HABITAT: Forests, rock outcrops, seeps, mound swamps, floodplains

Grows well among the roots of big shady trees and can take full shade. Groundcover. Does not tolerate wetness. Similar to Rosy Sedge and Eastern Star Sedge.



Robert H. Mohlenbrock

Carex lurida

Sallow Sedge

HEIGHT: 1.5 – 36 in

BLOOM COLOR: Flower insignificant, leaf green to pale smoky yellow

SOIL: Rich, clay, loam, sand, and gravel (is this plant a calcifile?)

NATURAL HABITAT: Bogs, fens, swamps, floodplain forests, wet meadows, ditches, wetlands

Seeds resemble oblong small sweetgum tree pods. Great for wet settings near ponds and inundation tolerant. Hosts skippers which are a primary pollinator for wetlands.



Sue Dingwell

Carex pensylvanica Pennsylvania Sedge

HEIGHT: 1 – 12 in

BLOOM COLOR: Neon green to washout tan

SOIL: Dry; thin

NATURAL HABITAT: Barrens, grassy balds, clearings

Soft appearance, easy to grow, spreads well. Excellent groundcover. Foodplant of a diverse array of grasshoppers and leafhoppers, both of which also provide birds with a food source.



Gary Fleming

Carex platyphylla

Silver or Broadleaved Sedge

HEIGHT: 1 – 12 in

BLOOM COLOR: Green satin, powder blue

SOIL: Adaptable, thin, rocky, rich; pH acid-base

NATURAL HABITAT: Upland forests, mountain coves

Seeds attract songbirds, gamebirds. Native Carex host about 35 species of native caterpillars, mainly Skipper butterflies. Beautiful groundcover with its broad powder-blue leaves. Native alternative to hostas. One of a few plants to tolerate both dry soil and full shade.



***Elymis hystrix* | Bottlebrush Grass**

- HEIGHT: 2 – 4 ft
- BLOOM COLOR: Green to tan
- BLOOM DATE: May – Aug
- SOIL: Loam, rocky, rich; pH moderate-base
- NATURAL HABITAT: Forests, woodlands, and barrens

Adds beautiful texture to shady areas in fall and winter. Light and airy seed heads work well in cut flower arrangements. Good for erosion control, dry shade. Reseeds effectively. Tolerates Black Walnuts, drought, air pollution.

Native *Elymus* host 31 species of native caterpillars including Northern Pearly Eye butterflies, several Skipper species.

***Schizachyrium scoparium* | Little Bluestem**

- HEIGHT: 1 – 4 ft
- BLOOM COLOR: Silver gray
- BLOOM DATE: Aug – Oct
- SOIL: Adaptable, well drained, poor; pH moderate-base
- NATURAL HABITAT: Open forests, woodlands, barrens, outcrops, riverside prairies, dry clearings, fields, meadows, roadsides

Attractive grass through autumn and winter. Upright clumping, blue-green, with silvery seed heads. Will boost the biodiversity of installations by attracting insect variety and density. Excellent for inhospitable conditions.

Seeds attracts songbirds in the winter. Supports a great number of insect families and the food web that preys upon them, including Bobwhite Quails. Native Little Bluestem hosts six species of native caterpillars.

***Muhlenbergia capillaris* | Muhly Grass**

- HEIGHT: 1 – 3.5 ft
- BLOOM COLOR: White to rose purple
- BLOOM DATE: Late Aug – Oct
- SOIL: Adaptable, rocky, well drained; pH base
- NATURAL HABITAT: Open woodlands, barrens, outcrops, clearings, roadsides

Provides habitat for skinks and other beneficial fauna. Native Muhly Grasses host four species of native caterpillars.

Probably one of the loveliest grasses. Its seed heads form clouds of misty pink in fall. Especially lovely when covered in dew. Adds splashes of purple to any native landscape. Highly ornamental and adaptable to a variety of applications.

***Andropogon virginicus* | Broomsedge**

- HEIGHT: 1 – 3 ft
- BLOOM COLOR: Green to copper brown
- BLOOM DATE: Sept – Oct
- SOIL: Adaptable, poor; pH acid-base
- NATURAL HABITAT: Old fields, pastures, roadsides, clearings, woodlands, barrens, hardpan forests, depression ponds

Native *Andropogons* host 11 species of native caterpillars including Northern Pearly Eye, Zabolon Skipper butterflies.

Incredible fall and winter color. Works well behind shorter wildflowers and combined with Little Bluestem. Clump forming. Valuable for stabilization of disturbed soils. Tolerates poor soil, salt.



VINES

Jacki Finzel

Passiflora incarnata

Lonicera sempervirens | Coral Honeysuckle



Betty Truax

- HEIGHT: 18 ft
- COLOR: Bloom – Scarlet, orange, yellow
- BLOOM DATE: Mar – July
- SOIL: Sand, adaptive, well drained; pH acid-base
- NATURAL HABITAT: Forests, floodplain, clearings, fencerows

Very showy scentless flowers with long bloom period. Semi-evergreen, non-aggressive vine. Tolerates walnut tree juglone, which is toxic to most plants.

Flowers attract butterflies, hummingbirds. Fruits attract songbirds. Native Honeysuckle host 33 species of native caterpillars including the Spring Azure butterflies, Hummingbird Clearwing, and Snowberry Clearwing moths.

Vitis riparia | Fox or Riverbank Grape



BotBln

- HEIGHT: 50 ft
- COLOR: Bloom – Greenish-yellow
Fruit – Edible, dark blue
- BLOOM DATE: Apr – June
Fruit: Aug – Sept
- SOIL: Loam, sand, gravel; pH moderate
- NATURAL HABITAT: Riverbanks floodplain, riverside prairies, forests clearings

Sweet edible fruit. Climbs by tendrils on trees, shrubs, and fences. Can smother and kill shrubs and small trees. Resistant to root diseases. This has allowed it to help save French wine production by grafting French grapes on to its root stock.

Flowers attract honeybees, native bees, bumblebees. Native Grapes host 72 species of native caterpillars. Sweet edible fruit.

Parthenocissus quinquefolia | Virginia Creeper

Betty Truax

- HEIGHT: 60 ft
- COLOR: Bloom – Green; Fruit – blue-black
- BLOOM DATE: May – July
- SOIL: Adaptable; pH acid-base
- NATURAL HABITAT: Forested to open habitats; rock outcrop to floodplains

Outstanding wine-red autumn color. Grows well on walls, arbors, or fences. Used as a groundcover for erosion control for shaded areas and on slopes. It can be pruned to control growth. Berries are toxic and sometimes fatal if eaten by humans. Tolerates air pollution.

Flowers attract native bees. Fruits attract songbirds. Foliage provides cover for birds. Native *Parthenocissus* hosts 32 species of native caterpillars.

Passiflora incarnata | Purple Passionflower or Maypop

Jacki Finzel

- HEIGHT: 6 – 30 ft
- COLOR: Bloom – Blue, purple, white; Fruit – Yellow, edible
- BLOOM DATE: May – Aug
- SOIL: Adaptable, rich, well drained; pH acid-base
- NATURAL HABITAT: Fence rows, roadsides, fields, forest borders

Fruit is edible by humans. The vines may be trained onto a trellis or fence or grown as a mass where it can be contained or mowed. Control by regularly removing suckers.

Flowers attract native bees. Native *Passiflora* host five species of native caterpillars including Gulf and Variegated Fritillary, Zebra Longtail butterflies

Clematis viorna | Vase Vine, Leather Flower

Mike Williams

- HEIGHT: 6 – 10 ft
- BLOOM COLOR: Pink
- BLOOM DATE: May – Sept
- SOIL: Loam, clay, rocky; well drained; pH acid-base
- NATURAL HABITAT: Forests, barrens, rock outcrops, floodplains

Can be woven into shrubs, trees, terraces, green walls. Leathery flower adds interest into the fall. Smoke from burning Vase Vine can be toxic.

Flowers attract native bees, pollinators. Foliage toxic to mammals. Native *Clematis* host six species of native caterpillars. Slow growing as a young plant.

Clematis virginiana | Virgin's Bower

Gerry Bishop ©

- HEIGHT: 6 – 20 ft
- BLOOM COLOR: White, cream
- BLOOM DATE: July – Sept
- SOIL: Loam, silt, rich; pH acid-base
- NATURAL HABITAT: Forests, floodplains, fields, fence rows, roadsides

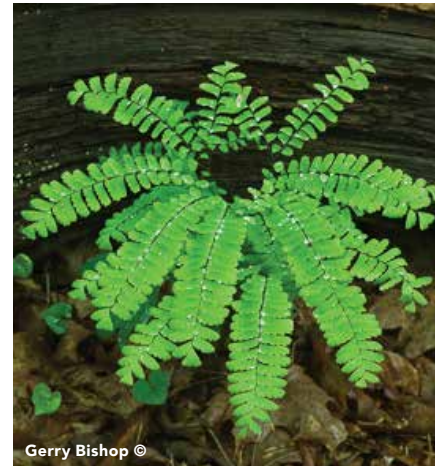
Fragrantly flowering vine grows rapidly with twisting petioles while it climbs a fence or an arbor. Seed heads provide winter interest. Smoke from burning Virgin's Bower can be toxic.

Flowers attract native bees, pollinators. Foliage toxic to mammals. Valuable cover for pollinators, songbirds. Native *Clematis* host six species of native caterpillars.



FERNS

Adiantum pedatum | Northern Maidenhair Fern



Gerry Bishop ©

- HEIGHT: 1 – 1.5 ft
- EVERGREEN: No
- GROWTH PATTERN: Small colonies of plants are often produced from rhizomes; root system is fibrous
- SOIL: Loam, rich, loose, well drained; pH acid-base
- NATURAL HABITAT: Cove forests, slope forests, floodplain forests

Provides cover for various herps such as salamanders, toads, and lizards.

Very beautiful delicate fronds. An essential for shade gardens. Good companion for *Iris cristata*. Protect from wind.

Asplenium platyneuron | Ebony Spleenwort



Betty Truax

- HEIGHT: .5 – 1.5 ft
- EVERGREEN: Yes
- GROWTH PATTERN: Can range from individual fronds to small asymmetrical clumps
- SOIL: Loam, sand, rocky; pH acid-moderate
- NATURAL HABITAT: Forests, old fields, clearings, woodlands, outcrops

Plant juice is eaten by small insects and fronds are utilized by small mammals.

Very small dainty evergreen upright fern. Grows well in humus rich soil. Well drained. Does not grow well in clay.

Athyrium asplenoides | Southern Ladyfern



Guido Gerding

- HEIGHT: 2 – 3 ft
- EVERGREEN: No
- GROWTH PATTERN: Slow growing clumps; small colonies of plants are often produced from rhizomes
- SOIL: Loam, rich, loose, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, mound swamp forests

Beautiful upright feathery fronds. Makes a nice groundcover plant on the north or east side of buildings. Circumboreal. Protect from wind.

Native *Athyrium*s host three species of native caterpillars.

Dryopteris intermedia | Evergreen Wood Fern



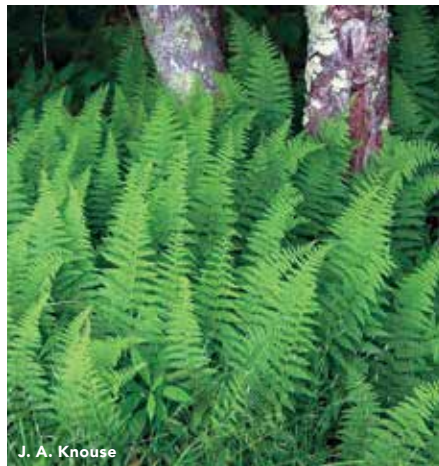
Gary Fleming

- HEIGHT: 1 – 3 ft
- EVERGREEN: Yes
- GROWTH PATTERN: Forms crown, does not spread
- SOIL: Rich, rocky; pH acid-moderate
- NATURAL HABITAT: Hardwood forests, cove forests

Attractive fancy frond, clumping. Tolerates dry soil moisture in shade areas.

Foliage is considered toxic to mammals. Native *Dryopteris* host three species of native caterpillars.

Dennstaedtia punctilobula | Hay Scented Fern



J. A. Knouse

- HEIGHT: 1 – 3 ft
- EVERGREEN: No
- GROWTH PATTERN: Forms clonal colonies from the rhizomes, creating a carpet-like mat
- SOIL: Adaptable, rocky; pH acid-moderate
- NATURAL HABITAT: Forests, woodlands, rock outcrops, pastures, clearings, road banks

Can be aggressive in the right conditions. The leaves are attractive from late spring to mid-summer, but they become more ragged in appearance later in the year. Common name comes from the hay-like scent of the drying leaves during late summer or autumn.

Foliage grown en mass provides cover for wildlife. Information about floral-faunal relationships is limited. Native *Dennstaedtia* host 3 species of native caterpillars.

Dryopteris marginalis | Marginal Wood Fern



Gary Fleming

- HEIGHT: 1 – 2 ft
- EVERGREEN: Yes
- GROWTH PATTERN: Clonal colonies of plants are occasionally formed from the rhizomes / asymmetric clump
- SOIL: Rich, rocky, well drained; pH acid-base
- NATURAL HABITAT: Rocky forests, boulder fields, rock outcrops

Grow in shady areas of the garden. Mixes well with spring wildflowers. Excellent as a specimen or in groups. Protect from wind.

Foliage is considered toxic to mammals. Native *Dryopteris* host three species of native caterpillars.

Onoclea sensibilis | Sensitive Fern



Kurt Stuber

- HEIGHT: 1.5 – 2 ft
- EVERGREEN: No
- GROWTH PATTERN: Spreads from rhizomes
- SOIL: Adaptable, rich, well drained; pH acid-base
- NATURAL HABITAT: Floodplain forests, swamps, marshes

Sensitive fern gets its name from the tendency of the fronds to wither from first frost. Creates a mobile colony. Not drought tolerant.

Foliage is considered toxic to mammals. Native *Ocroleas* host three species of native caterpillars.

Osmundastrum cinnamomeum | Cinnamon Fern



Sue Dingwell

- HEIGHT: 2 – 4 ft
- EVERGREEN: No
- GROWTH PATTERN: Frequently forms large clumps and spreads by rhizomes
- SOIL: Rich, sand; pH acid-base
- NATURAL HABITAT: Upland forests, well drained alluvial forests, seepage swamps, mountainous forests, swamps

Has very large, cinnamon-colored fertile fronds in early spring.

Foliage can provide cover when grown en mass. It is believed Native *Osmundastrums* host six species of native caterpillars including the *Osmunda Borer* moth.

Osmunda spectabilis | Royal Fern



Ken Lawless

- HEIGHT: 2 – 5 ft
- EVERGREEN: No
- GROWTH PATTERN: Forms symmetric clump, grows slowly from rhizome stem
- SOIL: Sand, rich, rocky, gravelly; pH acid-base
- NATURAL HABITAT: Swamps, wet flatwoods, bogs, fens, floodplain forests, wetlands

Foliage can provide cover when grown en mass. One of the most widespread of all living species and is found on every continent except Australia. Tolerates periods of standing water, however does not tolerate moving water or drought.

It is believed Native *Osmundas* host six species of native caterpillars including the *Osmunda Borer* moth.

Polystichum acrostichoides | Christmas Fern

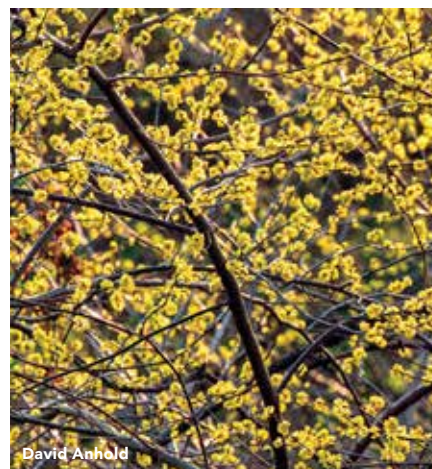


Betty Truax

- HEIGHT: 2 – 3 ft
- EVERGREEN: Yes
- GROWTH PATTERN: Forms asymmetric clump
- SOIL: Loam, rocky; pH acid-base
- NATURAL HABITAT: Forests

Fronds were formerly used for Christmas decorations. Very easy to grow. Can grow in full sun with enough moisture. Looks appealing in masses.

Young fronds attract gamebirds. Overall, the value of this fern to wildlife is limited. Native *Polystichums* host three species of native caterpillars.

Lindera benzoin | Northern Spicebush

David Anhold

- HEIGHT: 3 – 15 ft
- COLOR: Bright yellow flowers; showy yellow fall leaves; neon red fruit
- BLOOM DATE: Mar – Apr
- SOIL: Rich, loam, well drained; pH acid-base
- NATURAL HABITAT: Upland forests, floodplain forests, swamps

Flowers attract native bees, pollinators. Fruits attract over 20 species of song and gamebirds. Native spicebushes host nine species of native caterpillars including Spicebush Swallowtail butterflies.

This attractive shrub is one of the first to bloom. Entire shrub has sweet, spicy fragrance. Historically used as a substitute for allspice. Need male and female plants for cross pollination to produce fruit. Salt tolerant.

Aronia arbutifolia | Red Chokeberry

Gary Fleming

- HEIGHT: 1 – 13 ft
- COLOR: Salmon to scarlet purple fall leaves; white flowers; red fruit
- BLOOM DATE: Mar – Apr
- SOIL: Adaptable, well drained; pH acid-base
- NATURAL HABITAT: Swamps, wet flatwoods, pond borders, upland forests

Fruits persist into winter, because it has an astringent taste that birds don't prefer. Native Chokeberries host 26 species of native caterpillars including Coral Hairstreak, Striped Hairstreak butterflies.

Drought tolerant. Shrubs sucker to form small, non-aggressive colonies. Berries can be used to make jam. Salt tolerant.

SHRUBS

Rhododendron periclymenoides | Pinxter Azalea ☀️ ☁️ ☔️

Sue Dingwell

- HEIGHT: 4 – 6 ft
- COLOR: Dull yellow fall leaves; pale to rich pink-violet flowers
- BLOOM DATE: Mar – May
- SOIL: Hardpan clay, thin rocky, nutrient poor, well drained; pH acid
- NATURAL HABITAT: Upland forests, wet flatwoods, bottomlands

Striking clusters of trumpet shaped flowers. Deciduous, open airy growth habit; often suckers to form dense stands. Discovered by the Rev. Banister and named Pinxter, Dutch for Pentecost, or the seventh Sunday after Easter. Does not tolerate standing water.

Flowers attract bumblebees, butterflies, hummingbirds. Native Rhododendrons host 50 species of native caterpillars including Gray Comma, Striped Hairstreak, Brown Elfin butterflies.

Calycanthus floridus | Sweetshrub ☀️ ☁️ ☔️

Betty Truax

- HEIGHT: 3 – 9 ft
- COLOR: Yellow fall leaves; maroon flowers; yellowish green fruit
- BLOOM DATE: Mar – June
- SOIL: Sand, loam, gravel, rich, well drained; pH acid-base
- NATURAL HABITAT: Swamps, floodplain forests, mountain coves

Produces cut flowers prized for their intense fragrance. Leaves, twigs and bark are also fragrant and can be dried with the flowers for use in potpourri. Colonizes, but growth and spreading are slow. A good companion to paw paw tree. Salt tolerant.

Native Calycanthus host two species of native caterpillars.

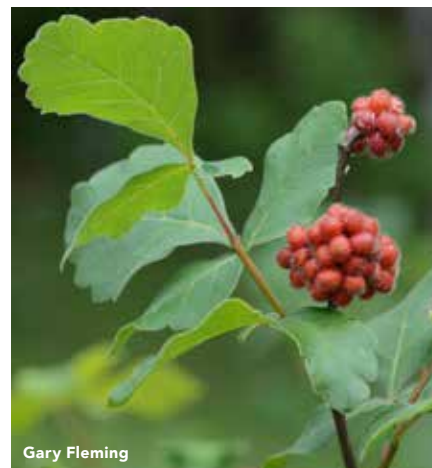
Ilex verticillata | Winterberry ☀️ ☁️ ☔️

Betty Truax

- HEIGHT: 5 – 15 ft
- COLOR: Yellow fall leaves; inconspicuous white flowers; rusty-red fruit
- BLOOM DATE: Apr – May
- SOIL: Rich; pH acid
- NATURAL HABITAT: Swamps, ponds, floodplain forests, upland forests

Deciduous holly species. Berries provide good winter food source for wildlife, but are poisonous to humans. Need male and female plants for cross pollination to produce fruit. Suckering nature provides effective hillside stabilization. Tolerates air pollution.

Flowers attract native bees and pollinators. Fruits attract more than 48 species of song and gamebirds. Native Ilex host 34 species of native caterpillars.

Rhus aromatica | Fragrant Sumac ☀️ ☁️ ☔️

Gary Fleming

- HEIGHT: Variety Dependent 2 - 6 ft
- COLOR: Flower insignificant, bright red berry
- BLOOM DATE: Feb – May
- SOIL: Dry, well drained, shallow soil, sand, rock, clay over mafic or calcareous bedrock
- NATURAL HABITAT: Woodlands, barrens, and clearings

Leaves are fragrant and provide excellent fall color. Rabbit, drought, erosion, and black walnut tolerant.

Flowers attract native bees, pollinators. Native sumac host 56 species of native caterpillars including Red-banded Hairstreak and Spring Azure butterflies. About 40 species of birds feed on the drupes.

Viburnum | Viburnum (Vi-BURN-um)

Native *Viburnum* have spectacular fall foliage and colorful berries. These versatile shrubs are found in forests and various habitats.

They offer many benefits to wildlife. Blooming in the early spring, *Viburnum* provide an important early season nectar source for many native bees, mason bees, bumblebees, and other pollinators. These ornamental shrubs are also the host plant for numerous Lepidoptera species of native caterpillars including Spring and Summer Azure butterflies.

After the blooms subside, *Viburnum* produce highly nutritious berries loaded with lipid fats that are prized by both song and game birds. Often holds berry throughout the winter providing food in a time of scarcity. This assists the birds with weight gain prior to their fall migration.

There is a *Viburnum* suitable for nearly every landscape and they appear in nearly every ecosystem type. All listed here grow in forest-type habitats. *Viburnum* can be incorporated into a hedgerow or as an individual specimen.



Betty Truax

Viburnum acerifolium Mapleleaf Viburnum

HEIGHT: 2 – 6 ft

COLOR: Rose-pink fall leaves; white flowers; waxy black fruit

SOIL: Rocky, sandy, well drained. pH acid

NATURAL HABITAT: Forest edge

Also known as Dockmackie, it has been cultivated since 1736 for its attractive flowers and foliage. Good companion for Azaleas and Mountain Laurel. Does not tolerate poorly drained soils.



Mary Lee Epps

Viburnum dentatum Southern Arrowwood

HEIGHT: 3 – 15 ft

COLOR: Yellow to reddish purple fall leaves; white flowers; blueish black fruit

SOIL: Adaptable, rocky; pH acid-moderate

NATURAL HABITAT: Floodplains, swamps, fens

Don't plant near entrances, blooms have an unpleasant smell. Host plant Baltimore Checkerspot caterpillars. Salt tolerant.



Gary Fleming

Viburnum prunifolium Blackhaw Viburnum

HEIGHT: 12 – 26 ft

COLOR: Leaves are red to purple in fall; white flat-topped cymes become blue-black drupes

SOIL: Well drained loam, rocky

NATURAL HABITAT: Wide range, forests, open areas, dry to wet habitats

Tall suckering hedge. Black drupes are foragable by humans and birds. Hosts Spring Azure, Summer Azure, Baltimore Checkerspot butterflies. Tolerates, clay, black walnut, air pollution.



Gary Fleming

Viburnum nudum Southern Wild Raisin, Possum Haw

HEIGHT: 5 – 20 ft

COLOR: Red, purple fall leaves; creamy white flowers; pink to red to dark blue fruit

SOIL: Loam, sand, organic-rich, nutrient-poor; pH acid

NATURAL HABITAT: Swamps, bogs

Transplants well because of shallow roots. Hosts the Baltimore Checkerspot caterpillar. Salt tolerant. Deer resistant. Edible berries taste like raisins.





Michael Wolf

Cornus amomum

Euonymus americanus | Strawberry Bush



Betty Truax

- HEIGHT: 6 – 10 ft
- COLOR: Dark red fall leaves; yellowish green flowers; electric red, fuchsia fruit
- BLOOM DATE: May – June
- SOIL: Adaptable, rocky, rich, well drained; pH acid-base
- NATURAL HABITAT: Forests, floodplains, swamp mounds, wet flatwoods, sandhill woodlands

Flowers attract native bees, pollinators. Seeds attract gamebirds and songbirds. Native *Euonymus* hosts six species of native caterpillars.

A favorite addition to flower arrangements, the distinctive showy red capsules burst open in fall to expose the fruit. Can be grown as an understory tree. Tolerates poor drainage and moderate droughts once established. Deer candy although mildly toxic.



Betty Truax

Viburnum prunifolium

Ceanothus americanus | New Jersey Tea



David Anhold

- HEIGHT: 2 – 3 ft, maximum 4 ft
- COLOR: Cream to white flowers
- BLOOM DATE: May – June
- SOIL: Adaptable, poor; pH acid-base
- NATURAL HABITAT: Dry forests, woodlands, clearings

Flowers attract native bees, butterflies, pollinators. Foliage attracts gamebirds. Native New Jersey Tea hosts several species of native caterpillars including Spring and Summer Azure butterflies.

New Jersey Tea was known as Red Root when American Colonists used it as a substitute after the Boston Tea Party of 1771. *C. americanus* is a major pollinator pillar of the Piedmont shrubs.

Rosa carolina | Carolina Rose

Gerry Bishop ©

Flowers attract native and bumble bees. Fruits attract quail, gamebirds. Native Roses host 122 species of native caterpillars.

- HEIGHT: 1 – 6 ft
- COLOR: Yellowish-orange fall leaves; pink flowers; bright red fruit
- BLOOM DATE: May – June
- SOIL: Adaptable; pH acid-moderate
- NATURAL HABITAT: Upland forests, barrens, clearings, pastures, roadsides

Strong, old-fashioned, rose fragrance. Disease resistant. Tolerates hot dry weather. Attractive edible rose hips were used by sailors to cure scurvy. Somewhat prickly stems.

Hydrangea arborescens | Wild Hydrangea

Betty Truax

Flowers attract native bees, bumblebees, pollinators. Native Hydrangeas host 5 species of native caterpillars.

- HEIGHT: 3 – 10 ft
- COLOR: Pale yellow fall leaves; dull white flowers; pale chartreuse fruit
- BLOOM DATE: May – July
- SOIL: Adaptable, rocky, rich, poor drainage; pH acid-moderate
- NATURAL HABITAT: Rocky forests, boulder fields, stream banks, cliffs, outcrops

Forms colonies by spreading runners. Grows well in dry shade conditions. Showy Panicles. (see "Right Plants, Right Place" for cultivar info).

Physocarpus opulifolius | Ninebark

Sue Dingwell

Flowers attract native bees, butterflies, pollinators. Fruits and seeds attract song and gamebirds. Native Ninebarks host 40 species of native caterpillars.

- HEIGHT: 3 – 10 ft
- COLOR: Dull yellow to bronze fall leaves; faint pink flowers; red-bright to reddish-brown fruit
- BLOOM DATE: May – July
- SOIL: Adaptable, rocky; pH moderate-base
- NATURAL HABITAT: Woodlands, barrens, outcrops, riversides, cliffs, swamps

The bark continually molts in thin strips, exposing new layers, as if it had "nine lives." Dirr (1997) observes that "the species is adaptable to all conditions, probably even nuclear attacks, and once established, requires a bulldozer for removal.

Hypericum prolificum | Shrubby St. John's Wort

Gary Fleming

Flowers attract native bees, bumblebees, pollinators. Native St. John's Worts host 20 species of native caterpillars including the Gray Hairstreak butterflies.

- HEIGHT: 1 – 5 ft
- COLOR: Green fall leaves; yellow flowers
- BLOOM DATE: June – Oct
- SOIL: Adaptable, rocky, rich; pH acid-base
- NATURAL HABITAT: Open forests, rocky woodlands, barrens, clearings, riverside prairies, outcrops, floodplain forests

Decorative waxy blue-green foliage has long lasting flowers that adorn this highly adaptable species. Excels in rich garden conditions forming a dense round form. Effective as a groundcover and for erosion or slope stabilization.



SHORT TREES

David Anhold

Cornus florida

Carpinus caroliniana | American Hornbeam, Ironwood ☀️ 🌧️



David Anhold

- HEIGHT: 25 – 33 ft
- AUTUMN COLOR: Yellow, orange, red
- BLOOM / FRUIT INFO: Mar – Apr, yellowish-green; Fruit brown ribbed nutlet
- SOIL: Adaptable, deep, rich; pH acid
- NATURAL HABITAT: Forests, floodplain forests, swamps, stream banks

Seeds, buds, or catkins attract songbirds, gamebirds. Native *Carpinus* host 2 species of native caterpillars including Mourning Cloak, Red Spotted Purple.

Attractive bluish gray bark. Trunk is heavily fluted giving it the nickname Muscle Tree. Ornamental ribbed nutlets ripen in late summer, dispersing through winter. Slow grower. Not drought tolerant.

Amelanchier arborea | Downy Serviceberry ☀️ 🌧️



David Anhold

- HEIGHT: 20 – 30 ft
- AUTUMN COLOR: Orange and gold speckled with red and green
- BLOOM / FRUIT INFO: March – May, showy white; blue-black berries
- SOIL: Adaptable, rocky, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, woodlands, barrens, seeps

Flowers attract honey bees, native bees, bumblebees, pollinators. Fruits attract over 40 bird species of songbirds including Cedar Waxwings, Baltimore Orioles. Native *Amelanchier* host 119 species of native caterpillars including Red Spotted Purple, Coral Hairstreak, Striped Hairstreak butterflies.

Excellent choice for urban landscapes; small stature, fragrant blossoms, pollution tolerant. "Serviceberry" comes from the collection of flowers for church services. Another name, Shadblow, comes from bloom times coinciding with the shad running. Alternative to Bradford Pear.

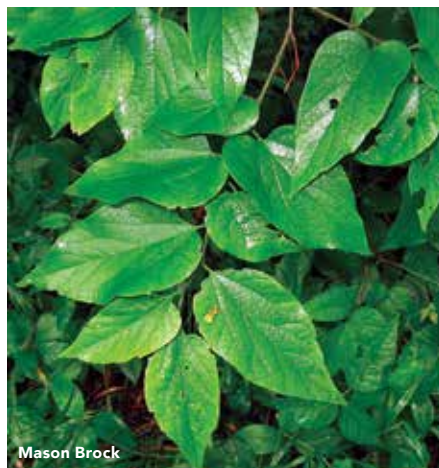
Cornus florida | Flowering Dogwood

Betty Truax

- HEIGHT: 12 – 20 ft
- AUTUMN COLOR: Red to maroon to purple
- BLOOM / FRUIT INFO: Mar – May, showy, white to pinkish blooms; red drupes
- SOIL: Loam, clay, rocky, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, clearings, old fields, floodplains

Flowers attract native bees, pollinators. Fruits attract songbirds, gamebirds. Native Dogwoods host 110 species of native caterpillars including Summer and Spring Azure butterflies.

Wood used for many items that must be hard, strong, and shock resistant, such as tool handles, golf clubs, and knitting needles. Exposure to heat, drought, pollution, or salt increases susceptibility to disease/pests. Full sun conditions may require extra moisture.

Celtis pumila | Dwarf Hackberry

Mason Brock

- HEIGHT: 12 – 26 ft
- AUTUMN COLOR: Light golden yellow
- BLOOM / FRUIT INFO: Apr – May, white; salmon, waxy-black, magenta drupes
- SOIL: Adaptable, rich, rocky; pH acid-base
- NATURAL HABITAT: Ridges, open forests, woodlands, fence rows, clearings

Wind pollinated. Fruits attract songbird, gamebirds. Nesting site for hummingbirds. Native Hackberries host 41 species of native caterpillars including Mourning Cloak, Comma, Hackberry, and Tawny Emperor, Question Mark, American Snout butterflies.

Wonderful gray, corky bark offers ornamental value for this resilient landscape tree. Hackberry trees are host to perhaps the greatest diversity of butterfly caterpillars in the Piedmont region. Tolerant of drought and salt. Life span of 150-200 years.

Ostrya virginiana | Hop Hornbeam, Ironwood

Steven Katovich

- HEIGHT: 15 – 40 ft
- AUTUMN COLOR: Lemon yellow, yellowish brown, red
- BLOOM / FRUIT INFO: Apr – May, brown, green; green catkins
- SOIL: Adaptable, well drained; pH acid-moderate
- NATURAL HABITAT: Upland forests, rocky woodlands, boulder fields

Wind pollinated. A nutlet inside the hop-like papery sack is winter food for both songbirds and gamebirds. Native Ostrya host 91 species of native caterpillars including Eastern Tiger Swallowtail, Red Spotted Purple, Striped Hairstreak butterflies.

Grows well on hilltops and under Oak trees. The fruits resemble hops used in beer brewing. The papery sacks often persist, and augment the attractive exfoliating bark, to provide decorative winter interest.

Cercis canadensis | Redbud

Betty Truax

- HEIGHT: 15 – 40 ft
- AUTUMN COLOR: Yellow to yellow-green
- BLOOM / FRUIT INFO: Apr – May, magenta-pink; pods green, deep purple, brown
- SOIL: Adaptable, rich, rocky; pH moderate-base
- NATURAL HABITAT: Forests, old fields, roadsides

Flowers attract honey bees, native bees, bumblebees, pollinators. Seeds attract gamebirds such as Bobwhite. Native Redbuds host 19 species of native caterpillars including Henry's Elfin butterfly.

Individual blooms look like tiny hummingbirds and are edible. Attractive heart shaped leaves, often have brilliant fall color to complement nearby dogwoods colors. Tolerates poor soils and drought once established. Protect from strong winds.

Chionanthus virginicus | Fringetree

Betty Truax

Flowers attract honey bees, native bees, bumblebees, butterflies. Fruit attracts over 75 bird species. Native *Chionanthus* host 8 species of native caterpillars.

- HEIGHT: 10 – 25 ft
- AUTUMN COLOR: Yellow
- BLOOM / FRUIT INFO: Apr – May, creamy-white; dark blue to black drupes
- SOIL: Adaptable, rocky, well drained; pH acid-base
- NATURAL HABITAT: Forests, barrens, swamps, wetlands

Another name for this tree is Old Man's Beard because of the showy fragrant flowers dangling from 6 inch stalk which resemble a beard. Often grown as a large, multistem shrub. Female trees produce fruit, but need males for pollination. Slow grower. Tolerates air pollution.

Ilex opaca | American Holly

Sue Dingwell

Fruits attract at least 18 species of songbirds and gamebirds. Foliage provides cover and nesting habitat for songbirds. Native *Ilex* host 34 species of native caterpillars.

- HEIGHT: 20 – 40 ft
- AUTUMN COLOR: Evergreen
- BLOOM / FRUIT INFO: Blooms Apr – June, greenish-white; fruit red berries
- SOIL: Sand, loam, well drained; pH acid-moderate
- NATURAL HABITAT: Upland, floodplain forests

Broad leaved pyramid-shaped evergreen is good for screening, hedges or as a specimen. Provides a great stock of garland and winter interest. Male and female trees are needed for berry production. Newly established plants flower after 4-7 years.

Quercus ilicifolia | Bear Oak

Sheryl Pollock

Wind pollinated. Fruits attract songbirds, gamebirds. Native Oaks host 518 species of native caterpillars, although this particular oak may not host as many.

- HEIGHT: 5 – 15 ft
- AUTUMN COLOR: Reddish-purple
- BLOOM / FRUIT INFO: Apr – June; reddish spikes; brown acorns
- SOIL: Sandy, rocky, poor, well drained; pH acid-moderate
- NATURAL HABITAT: Oak and oak-pine forests, shale barrens, sandy areas

A fire-adapted oak species that is typically multistem; long lived root systems support several generations of sprouts. Grows well on hillsides. Intolerant of dense shade.



Betty Truax

Hamamelis virginiana



Betty Truax

Liquidambar styraciflua

Stefan Bloodworth

Aronia arbutifolia

Magnolia tripetala | Umbrella Magnolia



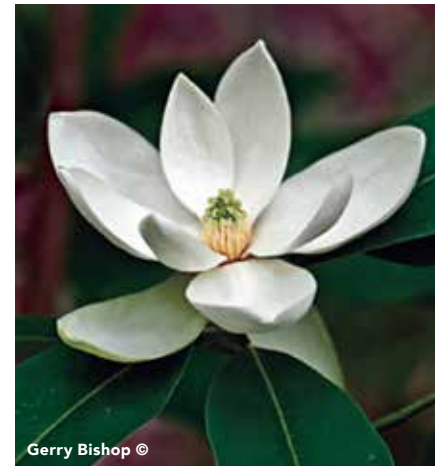
Ken Lawless

Flowers attract beetles. Native *Magnolia* host 21 species of native caterpillars.

- HEIGHT: 15 – 40 ft
- AUTUMN COLOR: Pale yellow
- BLOOM / FRUIT INFO: May – June, creamy white; September, rosy red
- SOIL: Rich, organic loam or rocky soils; pH moderate
- NATURAL HABITAT: Upland forests

Lovely understory tree often having several trunks and narrow crown. "Umbrella" leaves, 12-30 inches, are wide at the tip and taper at the stem. Best observed looking up from underneath to enjoy the striking shape. Interesting flowers with unpleasant odor.

Magnolia virginiana | Sweetbay Magnolia ⓘ



Gerry Bishop ©

Flower attracts beetles. Seeds attract songbirds, gamebirds. Native *Magnolia* host 21 species of native caterpillars.

- HEIGHT: 20 – 60 ft
- AUTUMN COLOR: Green to ruddy yellow
- BLOOM / FRUIT INFO: Apr – July, creamy white; conelike pods split to reveal red seeds
- SOIL: Clay, loam, rich; pH acid-moderate
- NATURAL HABITAT: Floodplain forests, swamps

Flowers have sweet, lemony scent. *Magnolias* evolved over 25 million years before bees; trees are pollinated and eaten by beetles. Can reach up to 60 feet tall. Tolerates poorly drained soils. Aging trees aren't shade tolerant.



TALL TREES

Juniperus virginiana | Red Cedar

- HEIGHT: 40 – 60 ft
- AUTUMN COLOR: Evergreen
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Mar – May males tan, females seafoam; Aug – Oct, waxy coated berry-like blue cone
- SOIL: Adaptable, well drained; pH acid-base
- NATURAL HABITAT: Forests, barrens, old fields, fencerows

Fruits attract songbirds. Foliage provides nesting and shelter. Native Junipers host 37 species of native caterpillars including Olive Hairstreak.

Aromatic, rot/insect-resistant wood used for fence posts, outdoor furniture, chests, closet linings. Adaptable tree with significant tap root. Tolerates air pollution, drought, erosion. Fast growing visual/wind screen.

Fagus grandifolia | American Beech

- HEIGHT: 100 – 115 ft
- AUTUMN COLOR: Bronze
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Apr, yellow green catkins; Oct, brown nut
- SOIL: Loam, poor, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, floodplains, ravines, bluffs

Nuts attract songbirds, gamebirds. Older tree trunk hollows provide nesting for songbirds. Native Beech host 124 species of native caterpillars.

Slow growth rate and shallow root system; difficult to grow other plants under beech. Wood is used for flooring, furniture, and other wood products. High density, desirable fuelwood that burns well.

Betula nigra | River Birch

Seeds attract songbirds, gamebirds. Native Birch host 413 species of native caterpillars including Mourning Cloak butterflies.

- HEIGHT: 40 – 70 ft
- AUTUMN COLOR: Yellow
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Mar – Apr, red male catkins, Mar – June, light green female catkins; May – June, reddish brown nutlet
- SOIL: Adaptable, rich; pH acid-moderate
- NATURAL HABITAT: Floodplains, stream banks

River birch sap can be fermented to make birch beer or vinegar. The wood is used to manufacture inexpensive furniture, woodenware, wooden shoes, basket materials, toys, staves, and fuel. Exfoliating paper-like bark.

**Betula lenta | Sweet Birch**

Attracts both songbirds and gamebirds. Native Birch host 413 species of native caterpillars including Mourning Cloak butterflies

- HEIGHT: 50 – 80 ft
- AUTUMN COLOR: Yellow
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Apr – June, June – July
- SOIL: Rich, loamy, clay rocky, well drained; pH acid-base
- NATURAL HABITAT: Rocky forests and woodlands, rock outcrops, boulder fields

Uses include medicinal, food flavoring, cosmetic ingredient, and tea. Waterproof bark has been utilized on the outside of dwellings, canoes, baskets, dishes, and buckets. Wood is strong and has been used for tools, commercial flooring, furniture, and fuel.

**Pinus echinata | Shortleaf Pine**

Seeds and foliage attract songbirds, gamebirds including the Bobwhite Quail. Native Pines host 191 species of native caterpillars.

- HEIGHT: 80 – 100 ft
- AUTUMN COLOR: Evergreen
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: April, red, yellow male, light green to red female; September, brown pinecone
- SOIL: Adaptable, rocky, well drained; pH moderate
- NATURAL HABITAT: Upland forests, old fields, woodlands

Forms a deep taproot and is best planted as a young tree. Adaptable to nutrient-deficient soils. Yellow-orange wood is fine-grained and hard with less resin than other pines.

**Platanus occidentalis | Sycamore**

Seeds attract winter songbirds. Older tree trunk hollows provide nesting for Barred and Screech Owls, Wood Ducks, songbirds. Native Sycamore host 42 species of native caterpillars.

- HEIGHT: 75 – 100 ft
- AUTUMN COLOR: Tan, yellow-brown
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Apr, inconspicuous; Oct, green then brown fruit
- SOIL: Adaptable, rocky; pH moderate-base
- NATURAL HABITAT: Floodplain forests, swamps, stream banks

Large, fast-growing tree with distinctive, exfoliating, green/gray/ brown mottled bark. Tolerates air pollution. Best planted in open areas where the large leaves won't accumulate under other plants.



Quercus | Oaks

(KWER-kus)

Oaks (*Quercus*) are arguably the most revered tree in our eastern forest system; this tree is embedded in our folklore, Native American legends, and U.S. history. It was the tree that built our ships, homes, furniture, and fueled our fires. For thousands of years, the oak tree has supported both Native American peoples and European colonists. However, humans are not the only species to benefit from the mighty oak. The *Quercus* genus provides fatty forage in the form of acorns for white-tailed deer, squirrels, wild turkey, and black bear seeking to increase their weight before winter. *Quercus* tend to bloom in April to supply acorns of various shapes. Oaks make up our major habitat, forest, while some fill other niche habitats. The *Quercus* selected

all are sun loving trees that prefer dry to moist soils with a pH between acid and moderate, while soil materials may differ. Most all listed here tolerate partial shade. Oaks also provide ample nesting opportunities for native bees, pollinators, birds, and small mammals. *Quercus* host the greatest number of caterpillar species of any plant grown on the east coast. These 518 species of native caterpillars include Horace's Duskywing, Juvenal's Duskywing, Red Spotted Purple, Banded Hairstreak, Sleepy Duskywing, Southern Hairstreak, Striped Hairstreak, White M Hairstreak, Edwards' Hairstreak, Red Banded Hairstreak. If you can only plant one tree in your backyard, let it be an oak!



David Anhold

Quercus alba White Oak

HEIGHT: 100 – 130 ft

AUTUMN COLOR: Purplish-red to violet-purple

COLOR: Green or reddish

SOIL: Adaptable, rich, well drained

Tolerates shade when young and bottomlands, ponds, swamps. Tolerates drought, when established. Difficult to transplant, large taproot. Slow growing, lives up to 600 years. Commercial wood uses.



Gary Fleming

Quercus coccinea Scarlet Oak

HEIGHT: 80 – 115 ft

AUTUMN COLOR: Scarlet to red fall color

COLOR: Inconspicuous yellowish-green

SOIL: Adaptable, poor, rocky

Tolerates shade when young. Not tolerant of adverse conditions. Rapid grower, for oaks. One of the last trees to change color in autumn.



Betty Truax

Quercus marilandica Blackjack Oak

HEIGHT: 30 – 115 ft

AUTUMN COLOR: Red, brown

COLOR: Yellowish-green

SOIL: Hardpan clay typically over deep sands

Doesn't tolerate shade. Slow growing. Commercial wood uses.



Mwanner

Quercus montana Chestnut Oak

HEIGHT: 80 – 115 ft

AUTUMN COLOR: Yellow, brown

COLOR: Yellow-green or reddish

SOIL: Adaptable, thin, rocky

Touted for urban and exposed sites. Long lived, slow growing, acorns favorite of turkeys. High cavity habitat value compared to other Oaks.



Sheryl Pollock

Quercus phellos Willow Oak

HEIGHT: 80 – 115 ft

AUTUMN COLOR: Yellow, brown

COLOR: Yellow-green

SOIL: Adaptable, well drained

Tolerates floodplains, swamps and old fields. Rapid grower, for oaks, easily transplanted, but prefers well drained soils. Commercial wood uses.



Nyssa sylvatica | Black Gum, Black Tupelo



- HEIGHT: 40 – 60 ft
- AUTUMN COLOR: Red, yellow
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Apr, greenish white; Sept – Oct, purplish blue stone fruit
- SOIL: Adaptable, rocky, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, woodlands, swamps

Flowers attract honey bees, native bees. Fruits attract songbirds, gamebirds. Native *Nyssa* host 25 species of native caterpillars.

Although flowers are inconspicuous, their nectar is used by bees to make highly-prized tupelo honey. One of the earliest native trees to color in the autumn. Interesting horizontal to pendulous branches.

Carya ovata | Shagbark Hickory



- HEIGHT: 60 – 80 ft
- AUTUMN COLOR: Golden yellow
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Apr; yellow green catkins; Oct, brown nut
- SOIL: Adaptable, deep, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, floodplains, barrens

Nuts attract gamebirds, waterfowl. Native Hickory host 233 species of native caterpillars including Hickory and Banded Hairstreak butterflies.

Edible nuts have a sweet taste. Highly ornamental as older bark peels or "shags" into long plates. Large taproot forms when trees are young; difficult to transplant.

Pinus rigida | Pitch Pine



- HEIGHT: 40 – 60 ft
- AUTUMN COLOR: Evergreen
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: Apr – May, light green, yellow, red; Sept – Oct, brown pinecone
- SOIL: Sand, rocky, poor, well drained; pH acid
- NATURAL HABITAT: Forests, cliffs, outcrops, seepage swamps, bogs

Seeds attract songbirds, gamebirds. Native Pines host 191 species of native caterpillars.

An irregular, attractive tree becoming gnarled with age. Highly resinous, the knots were used as torches. A fire-adapted species several sprouts grow from the stumps.

Tilia americana | Basswood



- HEIGHT: 70 – 80 ft
- AUTUMN COLOR: Pale yellow
- BLOOM DURATION/COLOR, FRUIT DURATION/COLOR: June, yellow-white; Aug, gray-tan wooly nut-like drupe
- SOIL: Adaptable, rocky, well drained; pH acid-base
- NATURAL HABITAT: Cove forests, forests, slopes

Flowers attract honey bees, bumblebees, pollinators. Seeds attract songbirds, water fowl. Native *Tilia* host 150 species of native caterpillars.

Lovely, fragrant flowers; honey bees use the nectar to make desirable honey. Grows best in soils with adequate nitrogen. Relatively soft wood that is valued for hand carving. Tolerates partial shade when young.



EDIBLES

DISCLAIMER

Before eating any wild plant, be sure to confirm your ID to the species level with a proper key, or with the guidance of an expert. Never put something in your mouth unless you are absolutely sure what it is (advice to live by). Also avoid collecting on roadsides, which can be contaminated or sprayed with toxic chemicals. There is always a small inherent risk in trying new things, including having an allergic reaction, and it is your responsibility to do your own research and determine if it is safe to eat any of these species. We strongly encourage connecting with other foragers in your area so

that you can share good advice and recipes. Often older citizens that live in rural areas are an invaluable resource for good information about edible natives. Never apply identification information or edibility advice outside the region in which you learned it, as that can lead to dangerous mistakes. People have been eating wild plants for three million years plus. Foraging can be perfectly safe if you know what you are doing. Learn to forage safely and responsibly, and experience the culinary delight that only native foods can provide!

Corylus americana | American Hazelnut

Mary Lee Epps

- HEIGHT: 3 – 11 ft
- BLOOM: Feb – Mar, light green-red
- FRUIT / TASTE: Light green-brown, nutty; Sept – Oct
- SOIL: Adaptable, rocky, well drained; pH moderate
- NATURAL HABITAT: Upland forests, floodplain forests, woodlands, old fields

Wind pollinated. Nuts attract gamebirds including Bobwhite Quail. Native *Corylus* host 124 species of native caterpillars.

Nice orange, peach fall color. Nuts are smaller than store bought, but very sweet and delicious. More disease resistant than their non-native counterparts.

Amelanchier canadensis | Canadian Serviceberry

Betty Truax

- HEIGHT: 26 ft
- BLOOM: Mar – Apr, white
- FRUIT / TASTE: Red to deep purple; blueberry like Juneberry; May – June
- SOIL: Adaptable; pH acid-moderate
- NATURAL HABITAT: Swamps, wet flatwoods, upland forests

Uses include eaten raw, dried, frozen; muffins, puddings, pies, cobblers, smoothies, wine. Another common name for this tree is Pioneerberry because it was utilized by early American settlers. Tolerates salt, phosphorus, poor soils.

Flowers attract native bees. Berries and twigs attract over 40 bird species such as Cedar Waxwings, Towhees, Baltimore Orioles. Native Amelanchier host 151 species of native caterpillars including Red Spotted Purple butterflies.

Prunus americana | American Plum

Homer Edward Price

- HEIGHT: 10 – 35 ft
- BLOOM: Mar – Apr, white with yellow stamen
- FRUIT / TASTE: Yellow-reddish plum, sour-sweet; July – Aug
- SOIL: Loam, rich; pH acid-moderate
- NATURAL HABITAT: Forests, old fields, shrubby clearings, fence rows

Has lovely and fragrant flowers in spring. Attractive sour fruits can make an incredibly delicious jam. May be best if cooked first. Naturally suckers to form a prickly hedge.

Flowers attract honey bees, native bees, bumblebees, pollinators. Native Prunus host 429 species of native caterpillars including Eastern Tiger Swallowtail, Red Spotted Purple, Viceroy, Coral Hairstreak, Striped Hairstreak butterflies.

Sassafras albidum | Sassafras

Shenandoah Park

- HEIGHT: 20 – 40 ft
- BLOOM DURATION/COLOR: March – April, yellow
- FRUIT DURATION/COLOR/TASTE: Black drupes on red stem, root-spicy, root beer-like
- SOIL: Adaptable, well drained; pH acid-moderate
- NATURAL HABITAT: Forests, woodlands, old fields, fence rows

Flowers attract native bees, pollinators. Fruits attract songbirds, gamebirds including Bobwhite Quail. Native Sassafras host 36 species of native caterpillars including Spicebush Swallowtail butterflies.

Warning! Roots contain known carcinogen. Leaves are perfectly safe and can be used for tea, and as a thickener for Cajun food. Interesting mitten-shaped leaves and fabulous fall color.

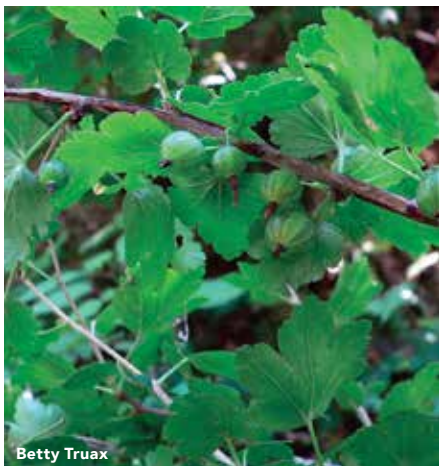
Asimina triloba | Paw Paw

Betty Truax

- HEIGHT: 40 – 50 ft
- BLOOM: Mar – May, maroon
- FRUIT / TASTE: Pale green, turns blackish as it ripens, a tropic mix of banana, mango, and custard; Aug – Oct
- SOIL: Loam, rich; pH moderate-base
- NATURAL HABITAT: Floodplain, forests, flatwoods, swamps

Flowers attract Flesh Flies, Blowflies and Carrion Beetles because flowers smell of death. Rotting meat or roadkill at base of tree increases pollination rate. Native Paw Paws host 12 species of native caterpillars including Zebra Swallowtail butterflies.

Subtropical berry is used as a banana replacement in many prepared foods including breads, ice cream, cookies. It was George Washington's favorite dessert, chilled. Tree is slow grower.

Ribes rotundifolium | Appalachian Gooseberry

Betty Truax

- HEIGHT: 3 – 6 ft
- BLOOM: Apr – May, Yellowish-green
- FRUIT / TASTE: Green-purple, tart-sweet, floral; June – Sept
- SOIL: Adaptable, rich, rocky; pH moderate-base
- NATURAL HABITAT: Forests, boulder fields, woodlands barrens, shrub balds, seepage swamps

Green translucent berries with a slight floral fragrance. A perfect summer snack. Other Virginia *Ribes* are better known as currants. Attractive bark. Tolerates drought.

Flowers attract native bees, pollinators. Native *Ribes* host 92 species of native caterpillars including Gray Comma, Green Comma butterflies.

Fragaria virginiana | Virginia Strawberry

David G. Smith

- HEIGHT: 3 – 7 in
- BLOOM: Apr – June, white
- FRUIT / TASTE: Red, sweet, rich; May – June
- SOIL: Loam, clay, rich, well drained; pH moderate-base
- NATURAL HABITAT: Forests, woodlands, old fields, clearings, meadows, pastures, roadsides

Flavor more intense than cultivated strawberries, but berries are smaller. Aggressive spreader, useful as a groundcover. Do not confuse with non edible yellow flowered Indian Strawberry.

Flowers attract native bees, pollinators. Fruits attract songbirds, gamebirds, Box Turtles. Native Strawberries host 75 species of native caterpillars including Painted Lady butterflies.

Vaccinium pallidum | Hillside Blueberry

Gary Fleming

- HEIGHT: 0.5 – 3 ft
- BLOOM: Apr – May, white with pink tinge
- FRUIT / TASTE: 4 - 8 mm dark blue globoid, sweet and juicy
- SOIL: Dry, acid, well drained, sand, rock
- NATURAL HABITAT: Forested slopes, barrens, outcrops

Red to orange fall leaf color. Spreads by underground runners, low maintenance, tolerates drought and shade.

Flowers attract honey bees, native bees, bumblebees, pollinators, Fruits attract songbirds, gamebirds, box turtles. Native Blueberries host 250 species of native caterpillars including Henry's Elfin, Striped Hairstreak butterflies.

Sambucus canadensis | Elderberry

David Anhold

- HEIGHT: 8 – 12 ft
- BLOOM: Late Apr – July, showy white
- FRUIT / TASTE: Black, bittersweet-earthy; July – Aug
- SOIL: Loam, rich; pH acid-base
- NATURAL HABITAT: Fields, clearings, ditches, roadsides, floodplain forests, swamps

Warning! Unripe fruits and all other parts of the plant are toxic except for the ripe berries. Can be used in sauce, jam, wine. Elderberry syrup is traditionally used to soothe sore throats in many parts of the world.

Flowers attract honey bees, native bees, pollinators. Fruits attract songbirds, gamebirds including Cedar Waxwing, and Box Turtles. Native *Sambucus* host 40 species of native caterpillars.

Rubus | Berries

(RU-bes)

The *Rubus* genus are commonly known as blackberries, raspberries, and dewberries. They are an essential part of the edible landscape and an ever present element in all full sun ecosystems, however most listed here will tolerate partial shade, but may not be as productive with berries. *Rubus* come in different sizes, shapes, textures, and colors. *Rubus* are a close relative of the rose and most have prickles, with the notable exception of a few species. For example, *Rubus odorata* has no prickles, maple-shaped leaves and large fuchsia flowers, while the others listed here have white flowers, all bloom from late spring to summer. With over 40 different native species to choose from, they can be an attractive landscape plant, a semi-evergreen groundcover like *Rubus hispida*, or a thorny but edible hedgerow.

Flowers attract honey bees, native bees, bumblebees, butterflies, and pollinators. Native *Rubus* host about 151 species of native caterpillars including Striped Hairstreak butterflies. Foliage provides materials and structure for native bees to nest. Berries attract songbirds and gamebirds when they ripen between June and July. These berries are not just for the birds. They have flavors that run the spectrum from tart to floral to sweet. There are a multitude of ways to eat the berries including raw, dried, or frozen; in muffins, puddings, pies, cobblers, smoothies, or wine. Whether you're an ornamental gardener, nature lover, or forager, there's a *Rubus* on the following list that will work for you.



Lonnie Murray

Rubus hispida

Bristly or Swamp Dewberry



HEIGHT: 4 in

BERRY COLOR/DESCRIPTION: Reddish-purple, small, tart, flavorful

SOIL: Loam, sand, poor; pH acid

NATURAL HABITAT: Bog, fens, seeps, swamps, flatwoods, floodplain forests, upland forests, shaded old fields

Beautiful semi-evergreen groundcover in partial shade. Attractive maroon leaves in fall.



Doug Goldman

Rubus allegheniensis

Blackberry



HEIGHT: 2 –10 ft

BERRY COLOR/DESCRIPTION: Black, flavorful

SOIL: Clay, sand, rock, poor; pH acid-base

NATURAL HABITAT: Forests, woodlands, barrens, clearings, old fields, pastures, road banks

Plant is prickly and can be pruned often.



Betty Truax

Rubus occidentalis

Black Raspberry



HEIGHT: 3 – 8 ft

BERRY COLOR / DESCRIPTION: Purple-black, sweet, juicy

SOIL: Loam, rocky, rich, well drained; pH acid-base

NATURAL HABITAT: Upland forests, alluvial forests, woodlands

May yield two crops in one year.



Betty Truax

Rubus odoratus

Purple Flowering Raspberry



HEIGHT: 3 – 6 ft

BERRY COLOR/DESCRIPTION: Pink-purple, flavorful

SOIL: Clay, loam, rich; pH moderate-base

NATURAL HABITAT: Mountain cove, seeps, outcrops

Fruits are seedy and have a delightful, slight rose like fragrance. Prickless. Mature plant has papery bark.

Diospyros virginiana | American Persimmon

Betty Truax

- HEIGHT: 30 – 50 ft
- BLOOM: May – June, greenish yellow
- FRUIT / TASTE: Waxy orange, sweet; Sept – Dec
- SOIL: Adaptable, rocky; pH acid-base
- NATURAL HABITAT: Old fields, fence rows, roadsides, swamp forests, woodlands, upland forests

Flowers attract honey bees, native bees, bumblebees, pollinators. Fruits attract songbirds including Cedar Waxwings and gamebirds including Bobwhite Quail. Native Persimmons host 44 species of native caterpillars including Luna moths.

Sweet with a more complex flavor than most Asian persimmons. Good in breads and pudding. Shouldn't be eaten before the first frost as the skin may be astringent. Flavor and astringency vary widely between trees. Dioecious.

Allium cernuum | Nodding Onion

Betty Truax

- HEIGHT: 8 – 30 in
- BLOOM: June – Aug, white-purple
- FRUIT / TASTE: Onion-like
- SOIL: Rocky; well-drained; pH acid-base
- NATURAL HABITAT: Shale barrens, outcrops, meadows

Flowers attract native bees, bumblebees, pollinators. Native Allium host 20 species of native caterpillars.

Umbels of flowers downward facing direction evolved to protect nectar from rain and to discourage other insects than bees to enter. Leaves can be cut and used like chives.

Solidago odora | Sweet Goldenrod

Gerry Bishop ©

- HEIGHT: 1 – 5 ft
- BLOOM: July – Oct, yellow
- FRUIT / TASTE: Leaf anise-like taste
- SOIL: Adaptable, sand, poor; pH acid-moderate
- NATURAL HABITAT: Forests, woodlands, barrens, clearings, old fields, roadsides

Flowers attract honey bees, native bees, butterflies, pollinators. Insects attract songbirds, gamebirds. Native Goldenrods host 112 species of native caterpillars. Supports beneficial insects.

Was used as a tea substitute by American Colonists after the Boston Tea Party of 1771. It became known as 'Liberty tea' and was exported to China.

Cunila origanoides | Dittany, Wild Oregano

Fritz Flohr Reynolds

- HEIGHT: 0.5 – 1.5 ft
- BLOOM: Aug – Oct, lavender
- FRUIT / TASTE: Leaf oregano-like
- SOIL: Adaptable, thin, rocky; pH acid-base
- NATURAL HABITAT: Forests, woodlands, shale barrens, outcrops

Flowers attract native bees, butterflies.

Herb replacement for Oregano. FDA has not given it 'as safe' status. Pregnant woman should avoid. First frost causes a phenomenon called Frost Flower, where a two inch ribbon projection comes out near the base of the stem.

RIGHT PLANTS, RIGHT PLACE

The biggest challenge for any would-be gardener is how to get started. Learning about our Piedmont native plants, habitats, plant communities, and ecosystems can be daunting. Deciding which plant to put where or which plants work best together can further muddy the picture for any gardener. Luckily, there are many experienced tradespeople in our area to help; some have contributed to this guide and others can be found at the Piedmont Natives resource page online.

With a little determination, you can create gardens that will grow well for years to come. What is needed is an examination of your site and then planting to your existing conditions. Do you have full sun or dry shade? Is there a wet spot in your yard? What type of soil do you have? Is your soil heavy clay, rocky, or average? If you're unsure of your soil or garden conditions, Virginia Tech will analyze a

sample for a small fee. They are able to determine your soil type, measure your soil's pH (a measure of acidity) and your soil's fertility. They will also send you suggestions for amending your soil for turf or agricultural crops; however, they do not have recommendations for native plants at the time of this printing. For native plants, we recommend choosing native plants that best suit your existing conditions, and using organic soil amendments such as compost or aged manures instead of chemical fertilizers.

The Dirt on Soil

Healthy soil is alive; a single teaspoon of soil can contain billions of microbes. Most gardeners can classify soils into three main soil types: clay, sandy and loam. Loam soils have roughly equal amounts of sand, silt, and clay with a healthy dose of organic matter. Loam is generally considered the

ideal soil type. We encourage you to grow natives in whatever type of soil conditions are present at your site. Choose native plants based on your existing conditions, for there is almost always a native plant for any condition. For example, many asters grow well in heavy clay soils while rhododendrons, blueberry bushes, and bird's-foot violets love acidic, rocky, or sandy soil.

Undisturbed soil is organized into horizons with a layer of humus and topsoil, then a subsoil of loam or clay and finally, bedrock underneath. Unfortunately, during construction of homes the upper layers are removed and the topsoil and humus sold off site. New homes and grass are then placed on relatively unamended hard subsoil. If you live in a recently built subdivision and you've had trouble getting anything to grow in your yard, then this could be your problem.

The good news is that various Piedmont native plants grow naturally in similar thin, infertile or disturbed sites, so choosing suitable native plants can immediately solve the problem. Another solution is to add compost and other organic material over time to help rebuild your soil and recreate the soil food web.

Lastly, it can be significant work to maintain good soil conditions, particularly when they are compromised. Protecting the health of the soil is a big part of what biodiversity gardening is all about. When nutrients like phosphorus and nitrogen wash into local streams, it causes algae blooms and can create serious problems for the health of streams, rivers, and the Chesapeake Bay. So, when you Go Native, remember that part of the goal is to protect soil health and keep those nutrients where they belong – in the soil!



David Anhold

Albemarle County Office Building, McIntire Rd, Charlottesville

Where To Start

This guide lists many Piedmont Natives that are both easy to grow as well as beautiful, whether used in formal arrangements or naturalized settings. Here are several steps to keep in mind as you incorporate Piedmont natives in your landscape:

1. Reduce the amount of turf in your landscape whenever possible, adding more space for native plantings. Mowed

turf only absorbs roughly 50% of rainfall, while garden areas catch, filter, and use virtually all rainfall, lessening the negative effects of stormwater runoff.

2. Consider your entire landscape: where can you add more layers of plants in your existing gardens? Think high and low. Perhaps you can add an understory layer beneath more mature trees, rather than mulch. Or maybe you can plant



Sheryl Pollock

a hedgerow of native shrubs along a property border that birds will find irresistible. How about growing a native vine along a fence or stone wall, or incorporating more flowering ground covers around your trees or shrubs?

3. Avoid using pesticides whenever possible, especially insecticides. Native plants are essential for creating habitat for insects and pollinators; using insecticides can eliminate these very insects, negatively impacting the balance in your landscape. Avoid illuminating the night. Outdoor lighting is disruptive to nocturnal pollinators
4. Choose areas of your property for naturalizing where your garden is more free and less tidy. Collect your fallen leaves and use them as mulch in your gardens, especially shredded leaves. Pile up any limbs and brush rather than burning or hauling them away and let them compost naturally. Preserve dead tree snags when possible for additional habitat and bird roosts. Think of these areas as "insect hotels" and "bird buffets."
5. Avoid sprinkling natives around in the landscape or garden bed. Instead, plant them in clusters of three or more. Pollinators are attracted to large swaths of color and will be more likely to visit your plants if they are grouped together.
6. Try to provide plants that bloom throughout the growing season. For example, select early spring, spring-summer, late summer, and fall bloomers. This will help to provide nectar for pollinators throughout the entire warm months of the year.
7. Be sure to include at least one of the "Noteworthy Natives" (highlighted pages) in your landscape, especially if you have limited space. These



Betty Truax

Cephalanthus occidentalis

particular native plants offer exceptional habitat benefits.

A Thought About Cultivars

Some native plant enthusiasts have a negative perception of cultivars. Cultivars can either be selected from naturally occurring populations that exhibit different traits from the straight species, or they are bred from selected varieties of a plant to isolate a desired trait such as a bigger flower or a shorter height. A problem can arise when breeding a native plant for aesthetics, because the habitat benefit of the plant can become altered or diminished. Dr. Tallamy has recently begun research to determine whether cultivars can function as a host plant for native caterpillars as well as the straight species. For example, cultivars that produce partially or mostly sterile flowers are less beneficial because the sterile flowers do not provide adequate amounts of nectar or pollen to the insects that visit them. The showier-blooming Wild Hydrangea cultivars fall into this category; while these shrubs provide

other ecosystem services such as soil stabilization, the flowers no longer meet the core habitat needs essential for insect diversity.

Site Specific Native Plants

Below are unique or challenging garden and landscape conditions with a list of site specific native plants that our research shows are best adapted to those growing conditions. These groupings of plants are not meant to be natural Plant Community restoration plan lists, however there may be some similarities. Plant Community restoration is touched on throughout this Guide, however Plant Communities require a greater magnifying lens and complexity than we were able to cover.

PILLAR POLLINATOR PLANTS

Perhaps the most important Piedmont

native plants that you can include in your garden are ones which support our insect pollinators. Continuous and overlapping flowers add aesthetic appeal to a landscape while meeting the habitat needs of critical insects; countless bees, beetles, butterflies and other species will prosper, providing pollination services in nearby gardens and local agriculture.

Keep in mind that insect and other wildlife species need food and nesting habitat throughout the year; choose a variety of native plant species whenever possible to achieve species diversity, temporal diversity (varying bloom times), and altitude diversity (differing heights of plants).

Many of the native plants listed below are naturally found in meadows and open sites. Although creating a true meadow requires some sophisticated planning, you

can create some of the essential elements of a meadow in your yard, garden or in pots on your patio. Keep in mind that a healthy, balanced meadow consists largely of native grasses, with a wide variety of native wildflowers interspersed. Planting the following natives in your landscape will enrich the diversity of insect life and invite an array of other life into your garden.

POLLINATOR SUPPORTING PLANTS

Spring

- *Cercis canadensis* / Redbud
- *Lonicera sempervirens* / Coral Honeysuckle*
- *Penstemon laevigatus* / Eastern Smooth Beardtongue
- *Salix humilis* / Upland or Prairie Willow
- *Vaccinium pallidum* / Early Lowbush or Hillside Blueberry

Spring-Summer

- *Baptisia tinctoria* / Yellow Wild Indigo*
- *Ceanothus americanus* / New Jersey Tea
- *Coreopsis lanceolata* / Lanceleaf Coreopsis
- *Heliopsis helianthoides* / Ox Eye*
- *Hydrangea arborescens* / Wild Hydrangea
- *Monarda fistulosa* / Wild Bergamot*
- *Tilia americana* / Basswood

Summer

- *Asclepias incarnata* / Swamp Milkweed
- *Liatris pilosa* / Blazing Star
- *Pycnanthemum muticum* / Short Toothed Mountain Mint*

*likely to bloom up to three months



Sheryl Pollock

Hoverfly



Nicky Staunton

Black Swallowtail

Summer–Autumn

- *Conoclinium coelestinum* / Mistflower
- *Eupatorium hyssopifolium* / Hyssop Thoroughwort
- *Eutrochium purpureum* / Sweet Joe Pye Weed

Autumn

- *Solidago nemoralis* / Grey Goldenrod
- *Symphotrichum novae-angliae* / New England Aster

TURF ALTERNATIVES

In lieu of mowing and caring for a lawn; which is not only time consuming, but also contributes to our “carbon footprint”; replace all or part of your turf with any of these lovely natives. These plants withstand light foot traffic and require much less time for maintenance.

**likely to bloom up to three months*

- *Antennaria plantaginifolia* / Field Pussy Toes
- *Carex appalachica* / *C. rosea* / Appalachian Sedge
- *Carex pennsylvanica* / Pennsylvania Sedge
- *Danthonia spicata* / Poverty Oatgrass
- *Deschampsia flexuosa* / Wavy Hair Grass
- *Eragrostis spectabilis* / Purple Lovegrass
- *Festuca subverticillata* / Nodding Fescue
- *Waldsteina fragarioides* / Barren Strawberry
- *Phlox subulata* / Moss Phlox
- *Salvia lyrata* / Lyre Leaved Sage
- *Viola sororia* / Common Blue Violet

DRY SHADE

Planting areas where trees already grow present their own challenges. In addition to shade, you have to contend with tree



Sheryl Pollock

Rudbeckia hirta; Liatris spicata

roots and dry conditions. The native plants on this list are particularly adapted to similar situations and will thrive in your dry shade garden with minimal care.

- *Ageratina altissima* / White Snakeroot
- *Carex flaccosperma* / Thinfruit Sedge
- *Chrysogonum virginianum* / Green and Gold
- *Eurybia divaricata* / White Wood Aster
- *Geranium maculatum* / Wild Geranium
- *Iris cristata* / Dwarf Crested Iris
- *Phlox divaricata* / Woodland Phlox
- *Polystichum acrostichoides* / Christmas Fern
- *Solidago caesia* / Bluestem Goldenrod

DRY SUN, HELL STRIP, ROCK GARDEN

There are a range of plants adapted to living in very thin soils, often on bare rock

in places that are highly exposed. These places bake in the sun during summer and are exposed to high winds and cold during the winter. If you have a sunny hillside where little will grow, try a rock garden with some of these plants. In urban areas, similar extreme conditions can occur on roof tops, or in “hellstrips,” that strip or curb between your yard and the street or parking area that is often compacted, dry, and difficult to cultivate. Note that plants near roadsides also need salt tolerance.

- *Allium cernuum* / Nodding Onion
- *Antennaria neglecta* / Field Pussytoes
- *Asclepias syriaca* / Common Milkweed
- *Asclepias tuberosa* / Butterfly Weed
- *Asclepias verticillata* / Whorled Milkweed
- *Ceanothus americanus* / New Jersey Tea
- *Celtis pumila* / Dwarf Hackberry



Mary Epps

Goldenrod

- *Eragrostis spectabilis* / Purple Lovegrass
- *Euthamia graminifolia* / Grass leaved or Flattop Goldenrod*
- *Liatis pilosa* / Blazing Star
- *Monarda punctata* / Spotted beebalm*
- *Oenothera fruticosa* / Sundrops
- *Packera anonyma* / Small's Ragwort
- *Phlox subulata* / Moss Phlox*
- *Pycnanthemum tenuifolium* / Narrow Leaf Mountain Mint
- *Quercus ilicifolia* / Bear Oak
- *Salvia lyrata* / Lyre Leaf Sage
- *Solidago nemoralis* / Gray Goldenrod*
- *Symphotrichum laevis* / Smooth Aster*
- *Symphotrichum oblongifolium* / Aromatic Aster* ⓘ

*indicates salt tolerance

SCREENING

Homeowners frequently ask what native plants are useful for creating a “living wall,” one that blocks an undesirable view, and adds privacy or protection. In our region, farmers commonly refer to these as “hedgerows” or “fence rows”. The mainstream landscape industry relies heavily on the exotic Leyland Cypress to fill this need. However, many native plants not only create useful screens, but also provide essential habitat simultaneously. Try the natives on the following list rather than the overused exotic plants.

- *Ilex montana* / Inkberry ⓘ
- *Cornus alternifolia* / Pagoda Dogwood
- *Ilex opaca* / American Holly
- *Ilex verticillata* / Winterberry
- *Juniperus virginiana* / Eastern Red Cedar

- *Lonicera sempervirens* / Coral Honeysuckle
- *Magnolia virginiana* / Sweetbay Magnolia ⓘ
- *Pieris floribunda* / Mountain Fetterbush
- *Pinus strobus* / White Pine
- *Rhododendron maximum* / Great Laurel, Rose Bay ⓘ
- *Sorghastrum nutans* / Indian Grass
- *Thuja occidentalis* / Northern White Cedar, American Arborvitae ⓘ
- *Viburnum dentatum* / Arrowwood Viburnum
- *Viburnum prunifolium* / Blackhaw Viburnum

RAINGARDENS

A raingarden area is technically defined as a depression where water collects after a rain event, the amount of time water stands depends on soil type. Sand drains quickly,

while clay can cause water to stand.

Native plants that grow in raingarden sites are able to withstand the inundation of water followed by drought condition dryness. In nature, plants that most resemble this type of habitat are often found in floodplains. The following group of plants is useful in our home garden and landscapes where we find similar alternating wet and dry conditions.

- *Athyrium asplenoides* / Southern Lady Fern
- *Carex vulpinoidea* / Fox sedge
- *Cornus amomum* / Silky Dogwood
- *Conoclinium coelestinum* / Blue Mistflower
- *Hamamelis virginiana* / Witch Hazel
- *Hibiscus moscheutos* / Crimoneyed Rosemallow
- *Ilex verticillata* / Winterberry Holly



Betty Truax

Monarda punctata



Repp Glaettli

Raingarden



Sheryl Pollock

Perplexing Bumblebee on *Cephalanthus occidentalis*

- *Iris virginica* / Blue Flag Iris
- *Lindera benzoin* / Spicebush*
- *Juncus tenuis* / Slender Rush
- *Onoclea sensibilis* / Sensitive Fern
- *Packera aurea* / Golden Ragwort
- *Sambucus canadensis* / Elderberry*
- *Scirpus cyperinus* / Woolgrass
- *Solidago rugosa* / Wrinkleleaf Goldenrod
- *Symphotrichum lateriflorum* / Calico Aster
- *Viburnum dentatum* / Arrowwood*

*indicates salt tolerance

AQUATIC (PONDS / WATER GARDENS)

Invasive plants can be serious problems in waterways. Luckily there are a large selection of native plants appropriate for a pond, a home water garden, or the aquatic bench of a stormwater retention pond. Note that several of these plants are suitable for smaller water gardens or rain gardens.

- *Juncus effusus* / Soft Rush (6")*
- *Mimulus ringens* / Monkeyflower (1")*
- *Asclepias incarnata* var. *pulchra* / Swamp Milkweed (3")
- *Chelone glabra* / Turtlehead (1")*
- *Orontium aquaticum* / Golden Club ⓘ (12")
- *Lobelia siphilitica* / Blue Lobelia (1")*
- *Sagittaria latifolia* / Arrowhead, Swamp Potato (24")
- *Hibiscus moscheutos* / Crimoneyed Rosemallow (3")*
- *Saururus cernuus* / Lizard's Tail (12")
- *Symplocarpus foetidus* / Skunk Cabbage (1")
- *Iris versicolor* / Southern Blue Flag ⓘ (6")*
- *Peltandra virginica* / Arrow Arum ⓘ (12")*
- *Rosa palustris* / Swamp Rose (12")
- *Nuphar advena* / Spatterdock, Yellow Pond Lily ⓘ (36")

- *Cephalanthus occidentalis* / Buttonbush (12")*
 - *Salix sericea* / Silky Willow (6")
 - *Carex lurida* / Sallow Sedge (3")
- () indicates maximum depth of water tolerated
* indicates can also be used in Raingardens

SLOPE SOLUTIONS & EROSION CONTROL

Development typically creates impervious surfaces and steep slopes that often go unplanted or under-planted, exacerbating erosion problems. Traditionally, homeowners had few plant choices for slopes or for controlling erosion and keeping soil in place; the choices were generally limited to invasive species like English Ivy, Periwinkle or Crown Vetch.

The native plants listed below are good choices for planting on slopes and to help reduce or control erosion.

- *Andropogon virginicus* / Broomsedge
- *Asclepias tuberosa* / Butterfly Weed
- *Carex pensylvanica* / Pennsylvania Sedge
- *Chamaecrista fasciculata* / Partridge Pea
- *Eragrostis spectabilis* / Purple Lovegrass
- *Hypericum prolificum* / Shrubby St. John's Wort
- *Lonicera sempervirens* / Coral Honeysuckle
- *Rosa carolina* / Carolina Rose
- *Schizachyrium scoparium* / Little Bluestem
- *Symphotrichum laeve* / Smooth Blue Aster

DEER RESISTANT NATIVES

White tail deer are well-adapted to our developed landscapes and often cause a great deal of damage in both dormant and growing seasons. Many native plants

are resistant to deer browse. The first line of defense is to choose native plants that are consistently distasteful to deer. These characteristics include: fragrant, hairy and leathery plants. Additionally, applying a deer repellent spray, available commercially, can further reduce any deer browsing when used according to the manufacturer's label directions. Unfortunately, the best defense is a deer fence.

The following plants have earned their spot on this list as deer resistant natives.

- *Carex species* / Native Sedges
- *Dennstaedtia punctilobula* / Hayscented Fern
- *Heliopsis helianthoides* / Oxeye
- *Juniperus virginiana* / Eastern Red Cedar
- *Liatris species* / Native Blazing Stars
- *Lindera benzoin* / Spicebush
- *Monarda species* / Native Beebalm and Bergamot
- *Penstemon species* / Native Beardtongue
- *Physocarpus opulifolius* / Ninebark
- *Pycnanthemum species* / Native Mountain Mints
- *Schizachyrium scoparium* / Little Bluestem
- *Symphotrichum oblongifolium* / Aromatic Aster ⓘ



Sheryl Pollock

Sachem Skipper on *Liatris*

NATIVE PLANT DEMONSTRATION SITES

There are some great examples in our region of how native plants can be incorporated into our everyday surroundings. Many of these practices qualify for funding assistance from your local conservation district. These designs range from:

1. Homeowner installed, VCAP funded rain garden, turf to natives or stream buffer
2. Schoolyard pollinator garden next to their vegetable garden
3. Municipal improvement projects, such as a streetscape overhaul
4. Designed landscape to mimic nature's habitat of a meadow, a rock outcrop, a woodland, or forest floodplain
5. Community Garden, where a few native plant enthusiasts are able to pool their resources and create something special.

Community Gardens not only provide food, habitats and beauty to communities, they are also great places to meet your neighbors, learn about gardening or teach people in your community, and instill pride. If your community doesn't already have one, you can be the one to get the ball rolling or volunteer in a public garden nearby. *Go Native, Grow Piedmont Plants.*

Albemarle County

Preddy Creek Park

3690 Burnley Station Rd
Charlottesville, VA 22911

Why Visit: Naturalized meadow with a long diverse plant list of local meadow ecotypes.

Ivy Creek Natural Area

1780 Earlysville Rd
Charlottesville, VA 22903

Why Visit: Naturalized meadow and maintained native garden beds near the education building with signage.

Buckingham County

James River State Park

104 Green Hill Drive
Gladstone, VA 24553

Why Visit: Natural floodplain with vast spring blooming ephemeral flowers.

City of Charlottesville

Albemarle County Office Building

401 McIntire Rd
Charlottesville, Va 22902

Why Visit: Raingarden, shade garden, bioretention basin, and full sun garden in and around the parking lots.



Betty Truax

Preddy Creek, *Tridens flava*

Culpeper County

Eastern View High School (Culpeper Sports Complex)

16332 Cyclone Way
Culpeper, VA 22701

Why Visit: Bioretention basin, rain garden and riparian buffer with a good mix of natives.

Fauquier County

Piedmont Environmental Council Office

45 Horner Street
Warrenton, VA 20186

Why Visit: Entire lot and office landscape planted with native plants and labeled.

Northern Fauquier Community Park

4155 Monroe Parkway
Marshall, VA 20115

Why Visit: Award-winning 88-acre park with natural native plant conservation areas and entirely native plant landscaping.



North Creek Nursery



Richard Jacobs

Eastern View High School, Culpeper

Rady Park

540 Evans Avenue
Warrenton, VA 20186

Why visit: In-town park with amenities, including a walking path that goes through an arboretum with several gardens of native species, all labeled.

Fluvanna County

Pleasant Grove Park

1730 Thomas Jefferson Parkway
Palmyra, VA 22963

Why Visit: Native meadow along entrance to park and native pollinator garden near visitor kiosk.

Greene County

Greene County Library

222 Main Street Suite 101
Stanardsville, VA 22973

Why Visit: Native pollinator garden.

Louisa County

Pollinator Garden at Bracketts Farm

1117 Bracketts Farm Rd
Louisa, VA 23093

Why Visit: Native pollinator garden on historic working farm.

Orange County

Historic Orange Train Station

122 East Main St.
Orange, VA 22960

Why visit: Virginia Native Plant Garden installed by Dolly Madison Garden Club.

Madison County

Hoover Ridge Park

199 Primary School Drive
Madison, VA 22727

Why Visit: Native plant demonstration garden and forested walking trails.

Nelson County

Wintergreen Nature Foundation

3421 Wintergreen Drive
Roseland, VA 22967

Why Visit: Partial shade gardens around Trillium House and overlook gardens, knowledgeable staff, tremendous variety of plants and hikes.

Quarry Gardens at Schuyler

1634 Salem Rd
Schuyler, VA 22969

Why Visit: Variety of restored native plant communities. Educational programs and materials available.

Rappahannock County

Rappahannock County Park

7 Park Lane
Washington, VA 22747

Why Visit: Native pollinator garden, on-going invasive removal projects plus restored and existing native plant communities.

Sperryville River Trail

Behind Sperryville's Schoolhouse Nine Golf
12018 Lee Highway
Sperryville, VA 22740

Why visit: 1.5-mile walking trail highlights invasive plant removal and new & existing native plantings.



David Andhold

Devil's Backbone



Scott Clark

Five Lined Skink

INTERACTIVE MAP OF PIEDMONT NATIVE PLANT LOCATIONS

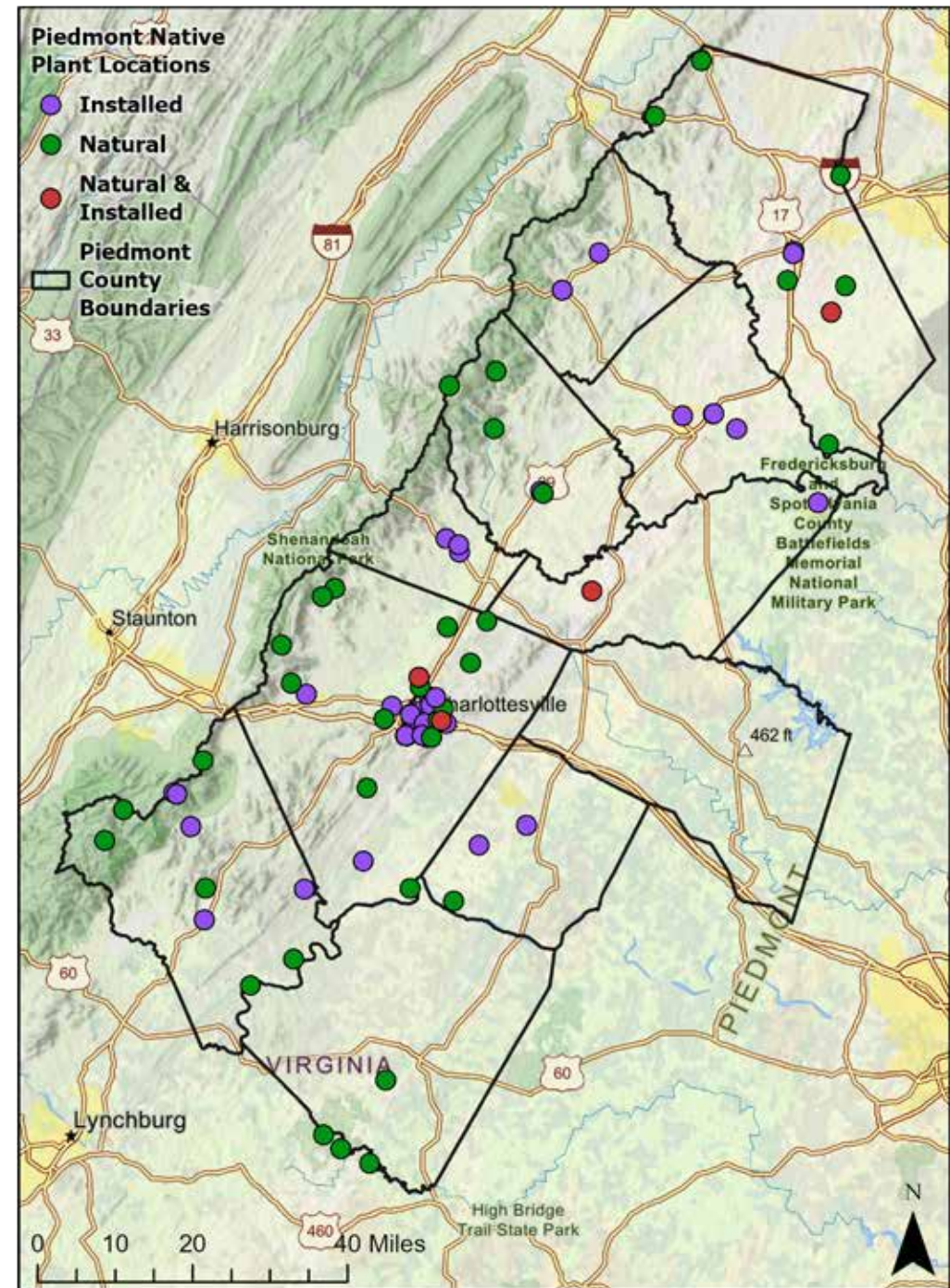
The region has a growing number of native plant sites available for public enjoyment and reference for creating your next landscape or garden. Check out this interactive map for more information about each of these sites.



<https://arcg.is/1fD1eW>

New locations are added as discovered, so revisit the map regularly!
And if you have a suggestion for a new location on the map please let us know.

Piedmontnatives@googlegroups.com



INDEX



Marc Malik

Avon Hall Pond



Richard Stromberg

New England Aster

NAME	LIGHT	SOIL	HEIGHT	PAGE
Scientific Name Common Name			60 – 90 ft.	
Scientific Name Common Name			12 – 18 in.	

Conditions Defined:

LIGHT REQUIREMENTS

- Full Sun: 6 + hours of sun
- Part Shade: 2-6 hours of sun
- Shade: 2 hours or less of sun

MOISTURE REQUIREMENTS

- Dry, no signs of moisture
- Moist, looks and feels damp
- Wet, saturated

RARE AND INFREQUENT SPECIES

This icon will be used to indicate rare and infrequent species.

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Acer rubrum</i> Red Maple			60 – 90 ft	
<i>Adiantum pedatum</i> Northern Maidenhair Fern			12 – 18 in	51
<i>Ageratina altissima</i> White Snakeroot			4 – 5 ft	
<i>Allium cernuum</i> Nodding Onion			6 – 30 in	90
<i>Amelanchier arborea</i> Downy Serviceberry, Shadblow			20 – 30 ft	67
<i>Amelanchier canadensis</i> Juneberry, Downy Serviceberry			26 ft	84
<i>Andropogon virginicus</i> Broomsedge			1 – 3 ft	40, 45
<i>Antennaria neglecta</i> Field Pussytoes [Ⓢ]			6 – 12 in	
<i>Antennaria plantaginifolia</i> Common or Plantain Leaved Pussytoes			3 – 12 in	Cover, 13, 31
<i>Aquilegia canadensis</i> Wild Columbine			12 – 24 in	15
<i>Aronia arbutifolia</i> Red Chokeberry			6 – 10 ft	57, 72
<i>Asclepias incarnata</i> var. <i>pulchra</i> Swamp Milkweed			1 – 5 ft	19
<i>Asclepias syriaca</i> Common Milkweed			2 – 4 ft	98
<i>Asclepias tuberosa</i> Butterfly Weed			1 – 3 ft	9, 17
<i>Asclepias verticillata</i> Whorled Milkweed			6 – 18 in	
<i>Asimina triloba</i> Paw Paw			40 – 50 ft	85
<i>Asplenium platyneuron</i> Ebony Spleenwort			6 – 18 in	51
<i>Athyrium asplenoides</i> Southern Ladyfern			2 – 3 ft	52

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Avenella flexuosa</i> Wavy Hairgrass			18 – 24 in	41
<i>Baptisia tinctoria</i> Yellow Wild Indigo			2 – 3 ft	
<i>Betula lenta</i> Sweet Birch			50 – 80 ft	77
<i>Betula nigra</i> River Birch			40 – 70 ft	76
<i>Calycanthus floridus</i> Sweetshrub			3 – 9 ft	58
<i>Carex amphibola</i> Creek or Narrow Leaved Sedge			6 – 18 in	
<i>Carex appalachica</i> Appalachian Sedge			1 – 24 in	42
<i>Carex lurida</i> Sallow Sedge			1.5 – 36 in	43
<i>Carex flaccosperma</i> Thinfruit Sedge			6 – 12 in	
<i>Carex pensylvanica</i> Pennsylvania Sedge			1 – 12 in	43
<i>Carex platyphylla</i> Silver or Broadleaved Sedge			1 – 12 in	43
<i>Carex vulpinoidea</i> Fox Sedge			8 – 28 in	
<i>Carpinus caroliniana</i> American Hornbeam, Ironwood, Muscle Tree			25 – 33 ft	67
<i>Carya ovata</i> Shagbark Hickory			60 – 80 ft	80
<i>Ceanothus americanus</i> New Jersey Tea			3 ft	63
<i>Celtis pumila</i> Dwarf Hackberry			12 – 26 ft	68
<i>Cephalanthus occidentalis</i> Buttonbush			3 – 10 ft	95, 102
<i>Cercis canadensis</i> Redbud			12 – 30 ft	69
<i>Chamaecrista fasciculata</i> Partridge Pea			1 – 3 ft	39

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Chelone glabra</i> White Turtlehead			2 – 3 ft	
<i>Chionanthus virginicus</i> Fringetree, Old Man's Beard			10 – 25 ft	70
<i>Chrysogonum virginianum</i> Green and Gold			6 – 12 in	32
<i>Claytosmunda claytoniana</i> Interrupted Fern			2 – 3 ft	50
<i>Clematis viorna</i> Vase Vine, Leather Flower ①			6 – 10 ft	49
<i>Clematis virginiana</i> Virgin's Bower			6 – 20 ft	49
<i>Conoclinium coelestinum</i> Mistflower			1 – 4 ft	14, 22
<i>Coreopsis lanceolata</i> Lanceleaf Tickseed			12 – 24 in	
<i>Coreopsis verticillata</i> Threadleaf Coreopsis			6 – 36 in	16
<i>Cornus amomum</i> Silky Dogwood			6 – 10 ft	62, 66
<i>Cornus florida</i> Flowering Dogwood			12 – 20 ft	68
<i>Cornus alternifolia</i> Pagoda Dogwood			15 – 20 ft	
<i>Corylus americana</i> American Hazelnut			3 – 11 ft	83
<i>Cunila origanoides</i> Common Dittany, Wild Oregano			6 – 18 in	91
<i>Danthonia spicata</i> Poverty Oatgrass			4 – 24 in	41
<i>Dennstaedtia punctilobula</i> Hay-scented Fern			18 – 30 in	52
<i>Deschampsia flexuosa</i> Wavy Hair Grass			18 – 24 in	
<i>Diospyros virginiana</i> American Persimmon			100 ft	90
<i>Dryopteris intermedia</i> Evergreen Wood Fern, Fancy Fern			1 – 3 ft	53
<i>Dryopteris marginalis</i> Marginal Wood Fern			12 – 24 in	53

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Elymus hystrix</i> Bottlebrush Grass			2 – 4 ft	44
<i>Eragrostis spectabilis</i> Purple Lovegrass			12 – 24 in	38
<i>Erigeron pulchellus</i> Robin's Plantain			4 – 24 in	33
<i>Euonymus americanus</i> Strawberry Bush, Hearts-a-bustin'			6 – 10 ft	63
<i>Eupatorium hyssopifolium</i> Hyssopleaf Thoroughwort			2 – 3 ft	23
<i>Eupatorium perfoliatum</i> Boneset			1 – 5 ft	23
<i>Eupatorium sessilifolium</i> Upland Boneset			3 – 4 ft	
<i>Eurybia divaricata</i> White Wood Aster			6 – 36 in	29
<i>Euthamia graminifolia</i> Flattop or Grassleaf Goldenrod			1 – 5 ft	26
<i>Eutrochium fistulosum</i> Trumpetweed, Hollow Joe Pye Weed			2 – 8 ft	23
<i>Eutrochium purpureum</i> Sweet Joe Pye Weed			1 – 6.5 ft	23
<i>Fagus grandifolia</i> American Beech			100 – 115 ft	75
<i>Festuca subverticillata</i> Nodding Fescue			2 – 3 ft	
<i>Fragaria virginiana</i> Virginia Strawberry			6 – 12 in	86
<i>Geranium maculatum</i> Wild Geranium, Cranesbill			6 – 24 in	15
<i>Waldsteina fragarioides</i> Barren Strawberry			3 – 8 in	31
<i>Hamamelis virginiana</i> Witch Hazel			15 – 25 ft	71
<i>Heliopsis helianthoides</i> Ox Eye			1 – 5 ft	18, 108
<i>Hibiscus moscheutos</i> Crimson Eyed Rosemallow			3 – 7 ft	
<i>Hydrangea arborescens</i> Wild Hydrangea			3 – 10 ft	64

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Hypericum densiflorum</i> Bushy St. John's Wort			2 – 3 ft	56
<i>Hypericum prolificum</i> Shrubby St. John's Wort			1 – 5 ft	65
<i>Ilex montana</i> Inkberry			6 – 8 ft	
<i>Ilex opaca</i> American Holly			20 – 40 ft	70
<i>Ilex verticillata</i> Winterberry			5 – 15 ft	59
<i>Iris cristata</i> Dwarf Crested Iris			6 – 12 in	25, 37
<i>Iris virginica</i> Virginia Blue Flag			2 – 3 ft	3
<i>Juncus effusus</i> Soft Rush			1 – 4 ft	
<i>Juncus tenuis</i> Path or Slender Rush			6 – 36 in	39
<i>Juniperus virginiana</i> Red Cedar			40 – 60 ft	75
<i>Liatris pilosa</i> Blazing Star, Grassleaf Gayfeather			1.5 – 4 ft	24, 103
<i>Lindera benzoin</i> Northern Spicebush			3 – 15 ft	57
<i>Liquidambar styraciflua</i> Sweet Gum			60 – 80 ft	72
<i>Liriodendron tulipifera</i> Tulip-tree or Tulip Poplar			70 – 100 ft	
<i>Lobelia cardinalis</i> Cardinal Flower			1.5 – 6 ft	24
<i>Lobelia siphilitica</i> Blue Lobelia			1 – 4 ft	25
<i>Lonicera sempervirens</i> Trumpet or Coral Honeysuckle			18 ft	47
<i>Magnolia tripetala</i> Umbrella Magnolia			15 – 40 ft	73
<i>Magnolia virginiana</i> Sweetbay Magnolia			20 – 60 ft	73
<i>Malus coronaria</i> Sweet Crabapple			10 – 25 ft	

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Mimulus ringens</i> Monkeyflower			12 – 30 in	
<i>Monarda fistulosa</i> Wild Bergamot			1 – 4 ft	18
<i>Monarda punctata</i> Spotted Beebalm			2 – 3 ft	100
<i>Muhlenbergia capillaris</i> Muhly Grass			1 – 3.5 ft	45
<i>Nuphar advena</i> Yellow Pond Lily, Cow Lily, Spatterdock			0 – 1.5 ft	
<i>Nyssa sylvatica</i> Black Gum, Black Tupelo			40 – 60 ft	80
<i>Oenothera fruticosa</i> Sundrops			12 – 30 in	38
<i>Onoclea sensibilis</i> Sensitive Fern			1.5 – 2 ft	54
<i>Orontium aquaticum</i> Golden Club			6 – 12 in	
<i>Osmunda spectabilis</i> Royal Fern			2 – 5 ft	54
<i>Osmundastrum cinnamomeum</i> Cinnamon Fern			2-4 ft	55
<i>Ostrya virginiana</i> Hop Hornbeam, Ironwood			15 – 40 ft	69
<i>Packera anonyma</i> Smalls Ragwort			8 – 16 in	
<i>Packera aurea</i> Golden Ragwort			6 – 24 in	32
<i>Parthenocissus quinquefolia</i> Virginia Creeper			60 ft	48
<i>Passiflora incarnata</i> Purple Passionflower, Maypop			6 – 30 ft	46, 48
<i>Penstemon canescens</i> Gray Beardtongue			6 – 36 in	16
<i>Penstemon laevigatus</i> Eastern Smooth Beardtongue			2 – 3 ft	
<i>Phlox divaricata</i> Woodland Phlox			6 – 18 in	36
<i>Phlox subulata</i> Moss Phlox			3 – 6 in	36

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Physocarpus opulifolius</i> Ninebark			3 – 10 ft	65
<i>Pieris floribunda</i> Mountain Fetterbush			2– 4 ft	
<i>Pinus echinata</i> Shortleaf Pine			80 – 100 ft	76
<i>Pinus rigida</i> Pitch Pine			40 – 60 ft	81
<i>Pinus strobus</i> White Pine			50 – 80 ft	
<i>Platanus occidentalis</i> Sycamore			75 – 100 ft	77
<i>Polystichum acrostichoides</i> , var. <i>acrostichoides</i> Christmas fern			2 – 3 ft	55
<i>Peltandra virginica</i> Arrow Arum			2 – 3 ft	
<i>Prunus Americana</i> American Plum			10 – 35 ft	84
<i>Pycnanthemum incanum</i> Hoary Mountain Mint			1 – 6.5 ft	21
<i>Pycnanthemum muticum</i> Short Toothed Mountain Mint			0.5 – 4 ft	21
<i>Pycnanthemum tenuifolium</i> Narrowleaf Mountain Mint			1 – 4 ft	21
<i>Pycnanthemum virginianum</i> Virginia Mountain Mint			0.5 – 3 ft	21
<i>Quercus alba</i> White Oak			100 – 130 ft	78
<i>Quercus coccinea</i> Black Oak			80 – 115 ft	79
<i>Quercus ilicifolia</i> Bear Oak			5 – 15 ft	71
<i>Quercus marilandica</i> Blackjack Oak			30 – 115 ft	79
<i>Quercus montana</i> Chestnut Oak			80 – 115 ft	79
<i>Quercus phellos</i> Willow Oak			80 – 115 ft	74, 79

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Rhododendron maximum</i> Great Laurel, Rose Bay			6 – 10 ft	
<i>Rhododendron periclymenoides</i> Pinxterbloom Azalea			4 – 6 ft	58
<i>Rhododendron prinophyllum</i> Rose Azalea			4 – 8 ft	
<i>Rhus aromatica</i> Fragrant Sumac			4 – 6 ft	59
<i>Ribes rotundifolium</i> Appalachian Gooseberry			3 – 6 ft	86
<i>Rosa carolina</i> Carolina Rose			1 – 6 ft	64
<i>Rosa palustris</i> Swamp Rose			4 – 6 ft	
<i>Rubus allegheniensis</i> Blackberry			2 – 10 ft	89
<i>Rubus hispida</i> Bristly or Swamp Dewberry			0.3 ft	88
<i>Rubus occidentalis</i> Black Raspberry			3 – 8 ft	82, 89
<i>Rubus odoratus</i> Purple Flowering Raspberry			3 – 6 ft	89
<i>Rudbeckia hirta</i> Black Eyed Susan			1 – 3 ft	17, 99
<i>Sagittaria latifolia</i> Broadleaf Arrowhead			1 – 3 ft	
<i>Salix humilis</i> Upland or Prairie Willow			10 – 20 ft	
<i>Salix sericea</i> Silky Willow			10 – 12 ft	
<i>Salvia lyrata</i> Lyre Leaf Sage			12 – 30 in	37
<i>Sambucus canadensis</i> Elderberry			8 – 12 ft	87
<i>Sassafras albidum</i> Sassafras			20 – 40 ft	85
<i>Saururus cernuus</i> Lizard's Tail			1 – 3 ft	
<i>Schizachyrium scoparium</i> Little Bluestem			1 – 4 ft	44

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Scirpus cyperinus</i> Woolgrass Bulrush			3 – 5 ft	
<i>Solidago caesia</i> Bluestem Goldenrod			1 – 3 ft	
<i>Solidago flexicaulis</i> Zigzag Goldenrod			6 – 36 in	27
<i>Solidago nemoralis</i> Gray Goldenrod			6 – 30 in	27
<i>Solidago odora</i> Sweet Goldenrod			1 – 3 ft	91
<i>Solidago rugosa</i> Wrinkleleaf Goldenrod			1 – 4 ft	27
<i>Solidago speciosa</i> Showy Goldenrod			1 – 4 ft	27
<i>Sorghastrum nutans</i> Indian Grass			3 – 8 ft	
<i>Spiraea corymbosa</i> Birch Leaved Spirea			1 – 4 ft	
<i>Symphotrichum laeve</i> Smooth Aster			1 – 3 ft	28
<i>Symphotrichum lateriflorum</i> Calico Aster			1 – 4 ft	28
<i>Symphotrichum novae – angliae</i> New England Aster			1.5 – 5 ft	29
<i>Symphotrichum oblongifolium</i> Aromatic Aster ☉			1 – 3 ft	29
<i>Symphotrichum puniceum</i> Purplestem Aster			1 – 5 ft	29
<i>Symplocarpus foetidus</i> Skunk Cabbage			18 – 30 in	
<i>Thuja occidentalis</i> Northern White Cedar, American Arborvitae ☉			30 – 60 ft	
<i>Tiarella cordifolia</i> Foamflower			6 – 12 in	33
<i>Tilia americana</i> Basswood			70 – 80 ft	81
<i>Tridens flavus</i> Redtop			2 – 5 ft	105

NAME	LIGHT	SOIL	HEIGHT	PAGE
<i>Tripsacum dactyloides</i> Eastern Gamagrass			3 – 8 ft	
<i>Vaccinium pallidum</i> Early Lowbush or Hillside Blueberry			.5 – 3 ft	87
<i>Vernonia noveboracensis</i> New York Ironweed			3 – 7 ft	19
<i>Viburnum acerifolium</i> Mapleleaf Viburnum			2 – 6 ft	60
<i>Viburnum dentatum</i> Southern Arrowwood			5 – 15 ft	61
<i>Viburnum prunifolium</i> Blackhaw			12 – 26 ft	61
<i>Viburnum nudum</i> Southern Wild Raisin, Possum Haw			5 – 20 ft	61
<i>Viburnum prunifolium</i> Blackhaw Viburnum			10 – 25 ft	62
<i>Viola cucullata</i> Marsh Blue Violet			4 – 10 in	
<i>Viola pedata</i> Bird's Foot Violet			3 – 6 in	30, 35
<i>Viola pubescens</i> Yellow Downy Violet			4 – 18 in	34
<i>Viola sororia</i> Common Blue Violet			2 – 12 in	35
<i>Viola striata</i> Striped Violet, Cream Violet			6 – 12 in	35
<i>Vitis riparia</i> Fox or Riverbank Grape			50 ft	47

RESOURCES

Get Involved Locally

Piedmont Natives

<https://www.facebook.com/NorthernPiedmontNatives/about>

NorthernPiedmontNatives/

Virginia Native Plant Society: Piedmont, Jefferson Chapters

<http://vnps.org/chapters/>

Virginia Master Naturalist Volunteers: Central Blue Ridge, Old Rag, Rivanna Chapters

<http://www.virginiamasternaturalist.org/chapters-a-map-and-contacts.html>

Virginia Master Gardeners Volunteers: Central VA, Fauquier, Fluvanna, Nelson, Piedmont, Rapidan Chapters

<https://ext.vt.edu/lawn-garden/master-gardener.html>

Piedmont Landscape Association

<http://www.piedmontlandscape.org>

Plants, Pollinators and Wildlife

Habitat for Wildlife- Virginia Department of Game and Inland Fisheries

<http://www.dgif.virginia.gov/habitat/>

Doug Tallamy: Homegrown National Park

<https://homegrownnationalpark.org/>

Audubon at Home Top 10 Native Plant Lists

<https://www.audubonva.org/native-plants-for-wildlife>

The Xerces Society for Invertebrate Conservation

<http://www.xerces.org/pollinator-conservation>

Butterflies and Moths of North America (BAMONA)

<http://www.butterfliesandmoths.org>

The Butterfly Society of Virginia

<http://www.butterflysofva.org>

Stormwater Resources for Plants

Raingardens: Virginia Department of Forestry

https://dof.virginia.gov/wp-content/uploads/Rain-Gardens_pub.pdf

Virginia Conservation Assistance Program

<https://vaswcd.org/vcap/>

Additional Plant Databases and Lists

Virginia DCR Natural Heritage: Virginia Native Plant Finders

<https://www.dcr.virginia.gov/natural-heritage/native-plants-finder>

Plant Virginia Natives

<https://www.plantvirginianatives.org/>
<https://www.plantvirginianatives.org/virginia-regional-native-plant-campaigns-guides>

Virginia Resources for Finding Native Plants

Virginia Native Plant Nurseries and Plant Sales

<https://vnps.org/native-plant-nursery-list/>

Chesapeake Bay Landscape Professionals to find a contractor

<https://certified.cblpro.org/>

Hill House Nursery

<http://www.hillhousenativeplants.com/>

The Wintergreen Nature Foundation

<https://www.tnfw.org/using-native-plants-2/>

Addressing Invasive Species

Blue Ridge PRISM

<https://blueridgeprism.org/>

LIST OF CONTRIBUTORS

Plant Northern Piedmont Natives 2023 Steering Committee

Carol Carter
Anne Coates
Doug Coleman
Janet Davis
Judy Edmunds
Kathy Fell
Repp Glaettli
October Greenfield
Nicola McGroff
Elizabeth Mizell
Lonnie Murray
Christine Putnam
Meghan Sobott
Judith Stevens
Bernice Thieblot
Sue Weis
Virginia Witmer

Editing Team Second Edition

Doug Coleman
Janet Davis
Repp Glaettli
Christine Putnam

Copy Editors Second Edition

Gayle Glaettli
Lauren Glaettli
Brian Hermsmeier
Nicola McGoff
Elizabeth Mizel

A special thanks to all additional copy editors.

Design Second Edition

Eric Purdy, *Map*
Nancy Marion, *Guide*

Piedmont Natives First Edition

William Cocke
Janet S. Davis
Repp Glaettli
Carol Heiser
Anne Henle
Nicola McGoff
Lonnie Murray
Betty Truax
Celia Vuocolo

Copy Editors First Edition

Sally Anderson
Laura K. Baker
Carrie Blair
Peggy Cornett
Sue Dingwell
Ruth Douglas
Emily Ford
Gayle Glaettli
Tana Herndon
Michelle Prysby
Nicky Staunton

Design First Edition

Derek Bedarf, *Map*
Jody Lewis, *Guide*

SUPPORTERS

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Visit the Plant Northern Piedmont Natives website for a list of supporters.
<https://www.plantvirginiannatives.org/native-plants-for-northern-piedmont>



Betty Truax

Coreopsis verticillata

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Bringing Nature Home, Douglas W. Tallamy

Caterpillars of Eastern North America, David L. Wagner

The Color Encyclopedia of Ornamental Grasses, Rick Darke

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Flora of Virginia (2014)

Growing and Propagating Wildflowers, William Cullina

Manual of Woody Landscape Plants, Michael Dirr

Native Trees Shrubs and Vines, William Cullina

Native Ferns Mosses and Grasses, William Cullina

Wildflowers of North Carolina, William S. Justice, C. Ritchie Bell, Anne H. Lindsey

American Penstemon Society
apsdev.org/identification/index

Americanvioletsociety.org

Arnold Arboretum of Harvard University
arboretum.harvard.edu

Auburn University
auburn.edu/academic/cosam/arboretum/index.htm

Butterflies and Moths of North America (BAMONA)
butterfliesandmoths.org

Connecticut Botanical Society
ct-botanical-society.org

Cornell University
gardening.cornell.edu/homegardening

Department of Conservation and Recreation
dcr.virginia.gov/natural_heritage/nativeplants.shtml

Earth Sangha
earthsangha.org

Florida Native Plant Society
fnps.org

The Herb Society of America
herbsociety.org

Illinois Wildflowers
illinoiswildflowers.info

Ladybird Johnson Wildflower Center
wildflower.org/plants

Maryland State Archives
MSAMaryland.gov

Michigan State University Extension
mfi.anr.msu.edu

Missouri Botanical Garden
missouribotanicalgarden.org

Monticello
monticello.org/site/research-and-collections/tje/Native-Herbaceous

Mt. Cuba Center
mtcubacenter.org/plant-finder

National Park Service
NPS.gov

Native Plant Center (Chesapeake Region)
nativeplantcenter.net

North America Butterfly Association (NABA)
nababutterfly.com

NC State University Cooperative Extension
ces.ncsu.edu

Ohio State University
ohioline.osu.edu

Penn State Extension
extension.psu.edu

Plant NoVA Native Guide
plantnovanatives.org

Pollinator Partnership
pollinator.org

US Forest Service
fs.fed.us

University of Illinois Extension
web.extension.illinois.edu/state/index.cfm

University of Massachusetts (Amherst)
ag.umass.edu

University of New Hampshire Cooperative Extension
extension.unh.edu

USDA Natural Resources Conservation Services
plants.usda.gov

Virginia Cooperative Extension
ext.vt.edu

Virginia Digital Atlas
vaplanatlas.org

Virginia Native Plant Society
vnps.org

vTree
dendro.cnre.vt.edu/dendrology

The Xerces Society
xerces.org

NOTES

PLANT HELP DESKS

Provided by Master Gardeners and Cooperative Extension

Fauquier and Rappahannock Counties, Culpeper and Orange Counties
<https://www.mgfrc.org/help-desk>

Fluvanna County
<https://www.fluvannamg.org/fluvanna-master-gardeners-help-desk/>

Louisa County
<https://www.louisacvmg.org/contact>

Nelson County
<https://www.mastergardenersofnelsoncounty.org/help-desk>

Albemarle, Buckingham, Greene, and Madison Counties, and City of Charlottesville
<https://piedmontmastergardeners.org/gardening-questions/horticultural-help-desks/>



For more information



<https://www.plantvirginiannatives.org/plant-northern-piedmont-natives>