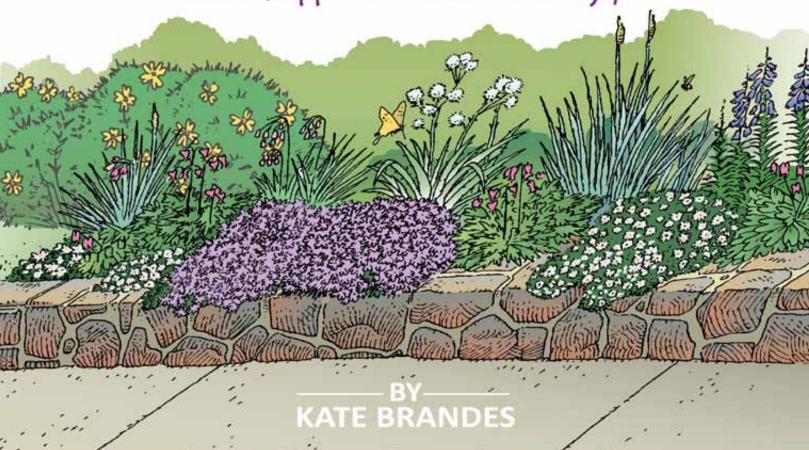


Easy, Beautiful Home Gardens that Support Local Ecology



NATIVE PLANTS FOR THE SMALL YARD:

Easy, Beautiful Home Gardens that Support Local Ecology

by Kate Brandes



Landscaping for Communities and Wildlife

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Kristie Fach Wildlands Conservancy

Lauren Forster Jacobsburg Environmental Education Center

Erin Frederick Penn State Extension

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FORWARD

Why This Book?

Social scientists have looked at how people feel about their yards. Research shows that people's preferences are determined mostly by the desire to fit in with their neighbors.

Native plants have developed something of a bad rap among many homeowners as messy and hard to manage plants that do not fit in with the neighborhood. But there are many beautiful native plants that not only fit well into a residential yard, but also provide multiple benefits. This book features ideas and recommendations for these native plants that will work well in a flower garden or home landscaping project, especially for the resident with the small yard.

The use of native plants at home is a feature of this book because these plants are known for their ecological benefits (see page 3) but they are also a valuable resource for many other reasons, including:

- Less need for herbicides and pesticides
 resulting in a healthier yard for your family and pets. Native plants co-exist with nature rather than competing against it, so they're often easier to maintain than nonnative species.
- Reduction of storm water runoff and increased rainwater absorption – wetloving plants can dramatically increase water infiltration on your property.
 This also helps improve water quality in your community.

- Beauty made easy native plants have a more subtle color pallet that mimics nature, so they look naturally beautiful and unified to our eye when grouped together. Choosing a wide assortment of plants also ensures seasonal interest, with the bonus of attracting colorful birds and butterflies.
- Keeping it local many people support the local food movement. Native plants are a keystone species for

- growing local food since so many pollinators depend on native plants to survive.
- Sense of place Nature, which inherently includes native plants, gives people a sense of place. These plants are tied to the landscape and culture of our local area.



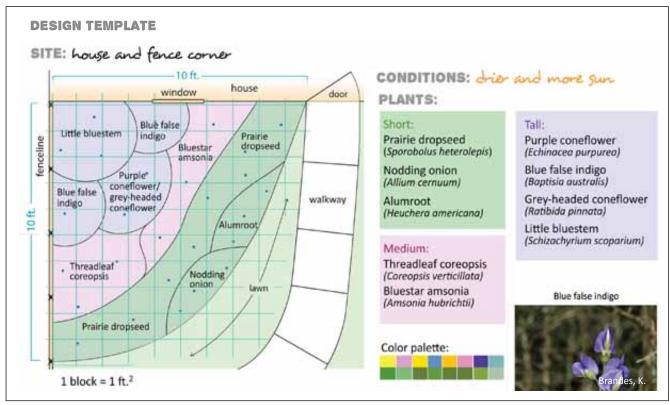
What Will You Find Here?

This book includes:

- A description of the connection between native plants and local ecology;
- Guidance on flower garden designs for your yard, including nine different design templates you can use and/or modify as you wish;
- Advice on installing and maintaining a flower garden; and
- Information on the best native plants for small spaces, as well as visual guides for common yard weeds and invasive plants.

Use this book if you're interested in beautiful gardens that are easy to manage and beneficial to the health and well being of your family, community, and local environment.





INTRODUCTION

There are many options for using native plants in a residential yard, even a small one. This book provides practical examples for how to include native plants in your landscape that look nice, are easy to care for and also support the local ecology. In fact, this book is designed especially for the resident with a small yard.

Most of us have seen examples of native plants in larger gardens, as either:

1) Wild areas, or



2) Highly managed gardens at destination botanical gardens.



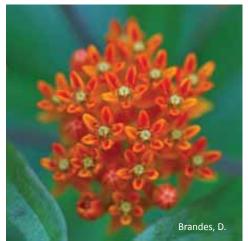
But there are many choices for the home gardener to include natives in ways that blend into the neighborhood and do not require a team of gardeners to maintain.



Native plants may seem like a new fad, but they've always been around and have a history in our yards. Perennial beds, as they were designed decades ago, often included natives. But many of these native perennials and shrubs have been lost from the modern yard.







Native plants are not only beautiful, but they're part of the local ecosystem and serve a vital role in the lives of local fauna including nearly all birds and butterflies. The plants and their pollinators are also a fundamental part of our food chain.



Why Natives Are Important in a Yard:

THE ECOLOGICAL CONNECTION



Pollinators depend on native plants!

At least one third of the world's food supply is dependent on pollinators. Aside from the well-known honeybee there are thousands of species of native bees, wasps, moths, butterflies and other insects in North America that are important for pollination of our food. These native pollinators depend on native plant species for survival.

A native plant occurs naturally in the place where it evolved. These plants have an evolutionary connection to our area and support healthy local ecosystems, strengthening the natural food chain where we live.

Doug Tallamy, a professor of entomology and wildlife ecology at the University of Delaware, has studied the role of native plants extensively. His findings show that native plants support local insects that also serve as the basis of our food chain. Non-native plants are not part of this food chain. For example, Dr. Tallamy has determined that most species of native caterpillars rely on native plants. In keeping with the idea of a food chain, many birds then rely on those caterpillars. In fact, Dr. Tallamy and his students have recorded the number of caterpillars needed to feed a clutch of chickadee hatchlings. One nest of baby birds reguires 350 to 570 caterpillars every day, depending on how many chicks there are. So, an incredible 6,000 to 9,000 caterpillars are required to raise one clutch of chickadees[1] to adults. Almost all baby birds require insects like caterpillars to grow, even birds that mature into seedeaters. As Dr. Tallamy explains, what we plant in our landscapes determines what can live in our landscapes.



¹Tallamy, Douglas W. *Bringing Nature Home: How Native Plants Sustain Wildlife in Our Gardens*. Timber Press, 2007.

A special note on invasives:

Ornamental plants that are non-native, such as lilacs or daffodils, can be lovely in your garden. But there are certain invasive, non-native species that cause harm to the environment, economy, or human health. These robust plants thrive and that's part of the reason they are sometimes marketable ornamental plants and also why they persist in nature. They should be avoided in our yards since they often spread to places they don't belong. For a list of invasives in your area, please see: Invasivespeciesinfo.gov. And for drawings of some of the most common invasive plants found in yards, see Appendix B (page 37).



Virginia sweetspire (Itea virginica) is an excellent replacement for the invasive Japanese barberry.

Deer avoid certain scents

Deer eat a wide variety of plants, especially when there's a large population. They have been known to eat anything if they're hungry enough. That said deer rely on their sense of smell to select desirable plants and tend to avoid many plants with aromatic foliage. So if you're trying to keep deer away, consider choosing plants with a scent and placing them in your yard, particularly around the perimeter, as a way to keep deer out. Plants that are known to be deer resistance are noted in Table 1 (page 41).

Replacing Common Invasive Ornamentals with Similar Natives

COMMONLY SOLD INVASIVES	NATIVE ALTERNATIVE(S)	FEATURES OF NATIVE
Bradford Pear	Redbud, Native Dogwoods, Shadbush	Small trees with spring bloom
Bamboo	Eastern red-cedar	Dense, evergreen foliage; privacy
Japanese or Chinese Wisteria	American Wisteria	Similar to nonnative, but not invasive
Burning Bush	Highbush blueberry or Winterberry	Brilliant fall color; edible fruit Bright-red berries in winter
Butterfly Bush	Sweet pepperbush	Attract butterflies with flowers
Japanese Barberry	Virginia sweetspire	Scented flowers and nice fall color
Privet	Bayberry	Glossy foliage can be pruned to hedge
Purple Loosestrife	Blazing-star Joe-pye weed	Spikes of purple flowers in summer Purple flowers attract butterflies Attracts pollinators
Periwinkle	Golden groundsel, Barren strawberry Creeping phlox, Green and gold	Attractive groundcover

DESIGNING A GARDEN

Your garden should suit your tastes and lifestyle. Here we offer some ideas you can take from and modify to whatever best serves you. When considering a new flower garden or adding to one you already have, here are a few things to keep in mind:

- Start small. You don't have to convert your whole yard to native plants. Instead try introducing native plants little bits at a time. It's more economical and this approach will let you get to know each plant well.
- Try a more informal garden, which requires less maintenance. By informal we mean more natural looking as compared to a formal Italian-style garden.
- Curved garden edges have an organic feel and are also easier to maintain than sharp edges.
- Keep things simple especially in a

small space. A mix of just a few plants or colors looks better than a lot of different things all at once.

- Plant a swath or mass of the same plant together. This is the way plants grow in nature and so this kind of planting looks right to our eye when we see it in a garden space.
- Include layers of plants, with varying heights, so that the ground is ideally covered with plants. This reduces or eliminates the need for the addition of mulch over time since the plants provide their own green mulch once they grow in. Weeds often establish on bare soil, so the idea is to cover the ground with the plants you want and crowd out the ones you don't. This kind of planting will also help the soil naturally retain moisture, and prevent erosion. If you let plants die back in place you'll also feed the soil.

Start small and keep it simple. Informal = less maintenance.

Container gardens are a good way to start small and to give you the opportunity to get to know each plant.



DESIGN TEMPLATES

For examples of the ideas described above, we've created some templates you can use to design your garden space. These templates include native plants that work especially well in small spaces. You can also mix other ornamentals in if you like.

Take ideas from each template. Use them as is or modify them anyway you wish. They can be tailored to your garden space, needs, and preferences.

In general the designs feature taller plants in the back and short and medium plants up front. This doesn't mean you shouldn't experiment with some of the taller plants in the middle ground or up front. Some irregularity in the garden keeps it interesting.

These templates were developed for some common areas in small yards. There's also a container garden example in case you have no yard. The designs include the following:

- Corner Garden
- Mailbox Garden
- Small Water Feature Garden
- Container Garden
- Downspout Garden
- Rock Wall Garden
- Front Porch Garden
- Sidewalk Strip Garden
- Back Patio Garden

Each one is overlaid on a grid so you can expand or contract the design to meet the dimensions of your own space. Recommended spacing between plants is shown by the dots on the template. Most of these designs have plant suggestions for the following four conditions: sunnier and wetter, sunnier and drier, shadier and wetter, and shadier and drier. The rain gutter garden template is for both sunny and shady wet options. The designs for containers, the rock garden, and sidewalk strip have options for sunny and shady dry conditions.

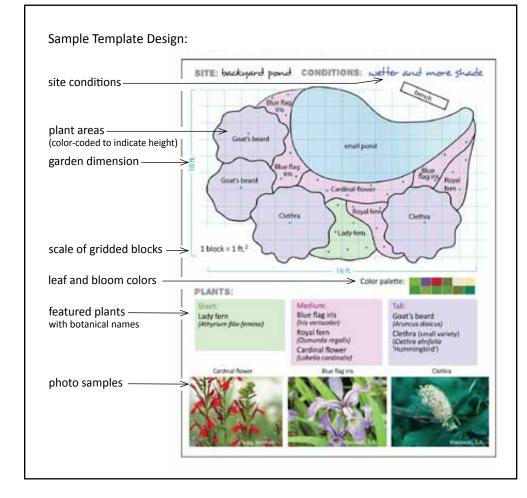


In addition, Table 1 on page 41 lists many of the native plants that could work in a small space. These plants are listed by size (short, medium, tall) and by their preferred growing conditions, so you can easily substitute one of those plants for something in the templates if you're looking for another color, texture, or a specific plant.

If you're planning your own garden / design, it helps to do a quick drawing of the space that is roughly to scale. All you need is graph paper and a pencil. Place the larger plants first (shrubs and plants that are taller and wider). Then add smaller plant material to fill in.



Brandes, K.



Best Natives for Small Spaces

There are so many natives to choose from when considering your garden design. Here are ten of the best for a smaller yard (see Table 1 on Page 41 for ideal growing conditions).

- **Alumroot** (Heuchera americana)
- Maidenhair fern (Adiantum pedatum)
- **Clethra** (small variety such as 'Hummingbird') (*Clethra alnifolia*)
- Purple coneflower (Echinacea purpurea)
- Penstemon (Penstemon digitalis)
- **Ginger** (Asarum canadense)
- False Blue indigo (Baptisia australis)
- Amsonia (Amsonia hubrichtii)
- Little blue stem (Schizachyrium scoparium)
- **Phlox** (*Phlox paniculata*)



Clethra



False Blue indigo



Purple coneflower



Amsonia



Alumroot



Penstemon



Little blue stem



Maidenhair fern



Ginger



Garden phlox

DESIGN TEMPLATES

CORNER GARDEN

Every yard has at least one corner, which can be made more beautiful and welcoming with the addition of flowers and interesting foliage.

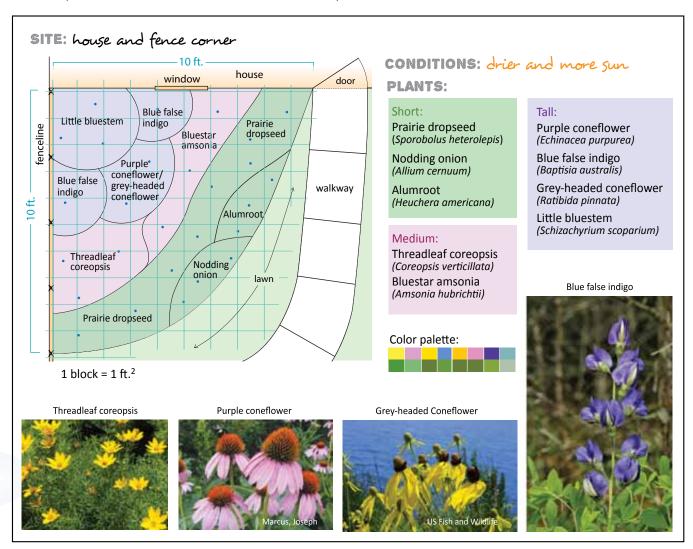




CORNER GARDEN

Helpful hints:

- Consider planting attractive gardens in places that are visible from the windows of your home.
- Plant along fences to make your yard look more spacious. Plants will soften the boundary line and make it look less severe.
- Make sure plants growing under windows are low enough that they won't grow over the window.
- Select plants based on the sun and moisture conditions you have.



CORNER GARDEN

PLANT ALTERNATIVES:

drier and more shade

Short:

Green and gold (Chrysogonum virginianum)

Alumroot (Heuchera americana)

Allegheny pachysandra (Pachysandra procumbens)

Medium:

Bottle brush glass (Elymus hystrix)

Tall:

Sneezeweed (Helenium autumnale)



wetter and more shade

Short:

Maidenhair fern (Adiantum pedatum)

Solomon's seal (Polygonatum biflorum)

Canada anemone (Anemone canadensis)

Bleeding heart (Dicentra eximia)

Medium:

Great blue lobelia (Lobelia siphilitica)

Royal fern (Osmunda regalis)

Tall:

Goat's beard (Aruncus dioicus)

Clethra - small variety (Clethra alnifolia 'Hummingbird')

Black Cohosh (Actaea racemosa)



wetter and more sun

Short

Pink Coreopsis (Coreopsis rosea)

Wild geranium (Geranium maculatum)

Medium:

Dwarf fothergilla (small shrub) (Fothergilla gardenii)

Meadowsweet (small shrub) (Spiraea alba)

Tall:

Sneezeweed (Helenium autumnale)

Blazing Star (Liatris spicata)

Garden Phlox (Phlox paniculata)

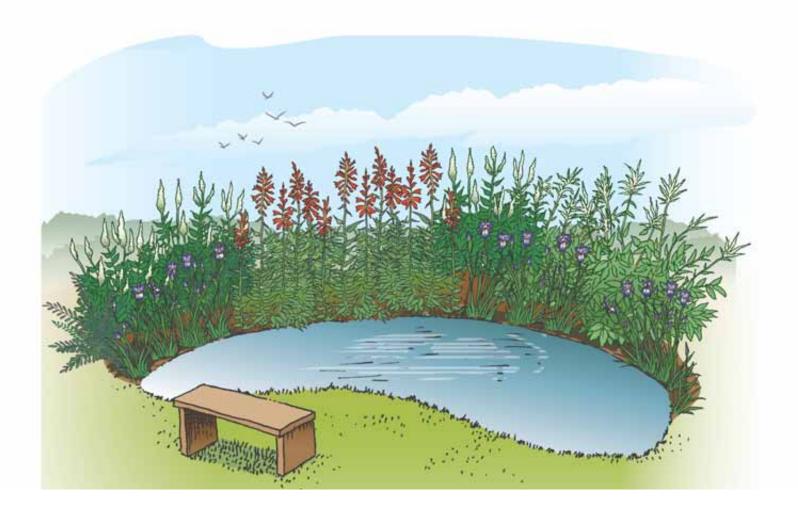


DESIGN TEMPLATES

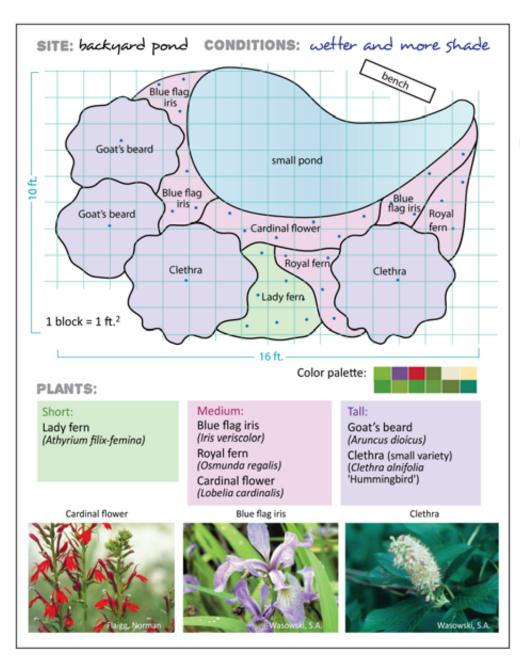
SMALL WATER FEATURE GARDEN

Flowing water is not only beautiful to admire, but the sound is very relaxing.

A water feature in your yard is likely to attract birds, as well as frogs and dragonflies. Planting natives around your water helps improve the local water quality.



SMALL WATER FEATURE GARDEN



Helpful hint:

 -For a more contemplative surrounding, less is more – keep things simple in terms of colors and different kinds of plants.

PLANT ALTERNATIVES:

wetter and more sun

Short:

Turtlehead (Chelone obliqua) Pink coreopsis (Coreopsis rosea) Golden alexanders (Zizia aurea)

Medium:

Little joe pye
(Eutrochium dubium)
Blazing star
(Liatris spicata)
Great blue lobelia
(Lobelia siphilitica)
Swamp milkweed
(Asclepias incarnata)

Tall:

Beebalm (Monarda didyma) New England aster (Symphyotrichum novaeangliae) New York ironweed (Vernonia noveboracensis) Culver's root

(Veronicastrum virginicum) Winterberry (small variety) (Ilex verticillata 'Nana' RED SPRITE)

Meadowsweet (Spiraea alba)

CONTAINER GARDEN

A container garden can instantly add interest to any outdoor space.

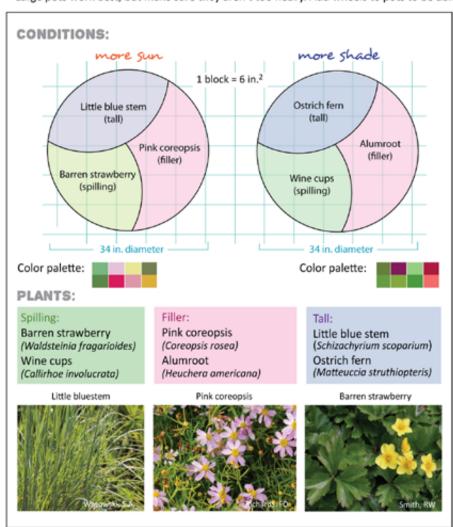
Container gardens are versatile for small yards, patios, decks and porches. They can be placed alone or in groups. Arrange containers close to your favorite outdoor spot so you can enjoy them. The color pallet of natives is often more subtle, like that found in nature. So it's easy to mix things together and have them look good.



CONTAINER GARDEN

Helpful hints:

- Containers are often planted with a tall plant, a plant that fills the pot and one that spills over the brim. These varying heights are attractive, but you can also use a single plant for good effect.
- Pots should have drainage holes in the bottom, be deep enough for root growth, and wide enough so that plants aren't crowded.
- Large pots work best, but make sure they aren't too heavy. Add wheels to pots to be able to move them around easily.



PLANT ALTERNATIVES:

(use alone or in combination)

more sun

Filler/Spilling:

Prairie dropseed (Sporobolus heterolepis) Prickly pear cactus (Opuntia compressa)

Filler:

Nodding onion (Allium cernuum) Dwarf crested iris (Iris cristata) Snow flurry aster (Symphyotrichum ericoides)

Tall:

Black-eyed susan (Rudbeckia fulgida)
Spotted beebalm (Monarda punctata)
Penstemon (Penstemon digitalis)
Garden phlox (Phlox paniculata)
Little lemon goldenrod (Solidago
'Little Lemon')

more shade

Filler/Spilling:

Moss phlox (Phlox subulata) Prickly pear cactus (Opuntia compressa)

Filler:

Maidenhair fern (Adiantum pedatum) Stonecrop (Sedum ternatum) Most heucheras

Tall-

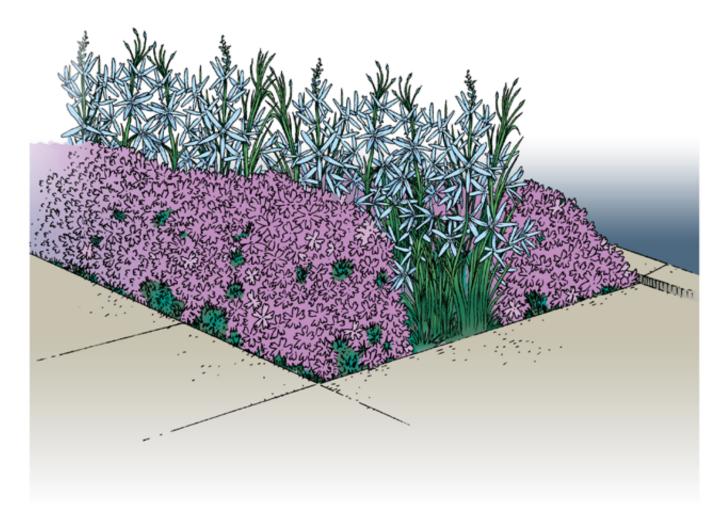
Bottlebrush grass (Elymus hystrix)

SIDEWALK STRIP GARDEN

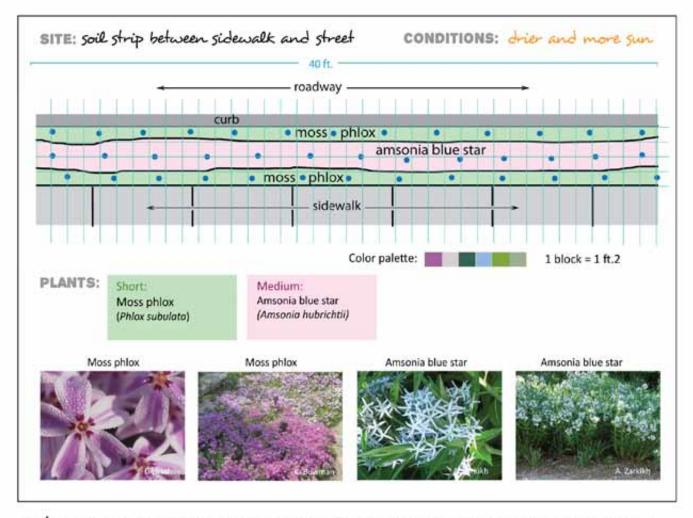
The narrow strip of land between the sidewalk and street has a big impact on your home's curb appeal.

Here are some ideas to transform that strip into something that adds value to your home and benefits local wildlife.





SIDEWALK STRIP GARDEN



Note: The pavement strip (otherwise known as 'the hell strip') is hot in the summer and is salted in the winter, so not many plants can survive. Below are a few other natives (on the shorter side, for visibility issues) that could work in this area.

PLANT ALTERNATIVES:

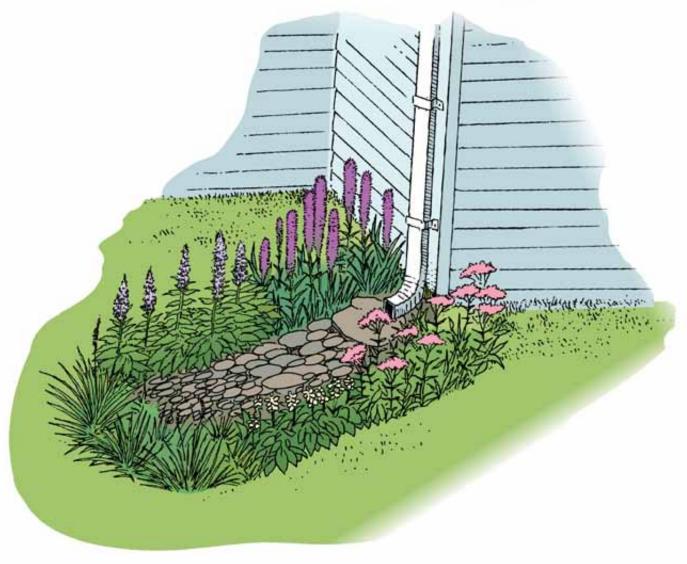
Short: Creeping juniper (Juniperus horizontalis) Stonecrop (Sedum ternatum) Medium: Penstemon (Penstemon digitalis) Butterfly weed (Asclepias tuberosa)

DESIGN TEMPLATES

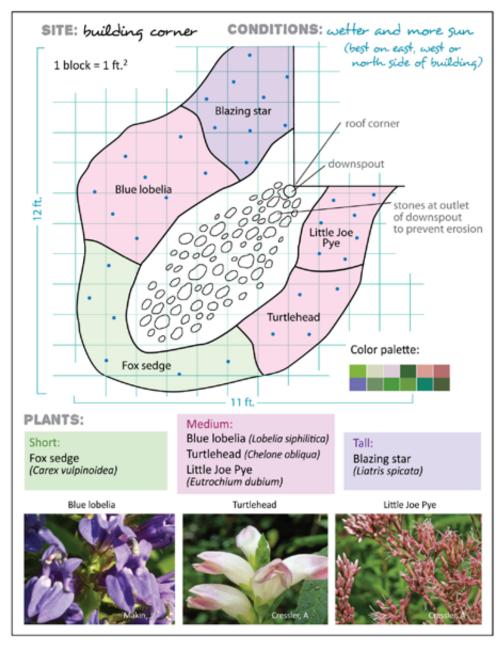
DOWNSPOUT GARDEN

The water runoff from your roof's downspout creates an opportunity to plant beautiful natives adapted to the fluctuating levels of moisture at a drainpipe. You can create a garden that will attract butterflies, bees, birds, and amphibians and also help rainwater absorb back into the ground instead of being diverted as waste.





DOWNSPOUT GARDEN



Helpful hints:

- Water should be directed away from the house foundation.
- Inspiration can come from local surroundings. Using native plants and even local stones in your yard creates harmony between your garden and the local area.

PLANT ALTERNATIVES:

wetter and more shade

Short:

Maidenhair fern (Adiantum pedatum) Golden ragwort (Packera aurea)

Medium:

Blue lobelia (Lobelia siphilitica) Lady fern (Athyrium filix-femina) Royal fern (Osmunda regalis)

Tall:

Goat's beard (Aruncus dioicus) Black cohosh (Actaea racemosa)

DESIGN TEMPLATES

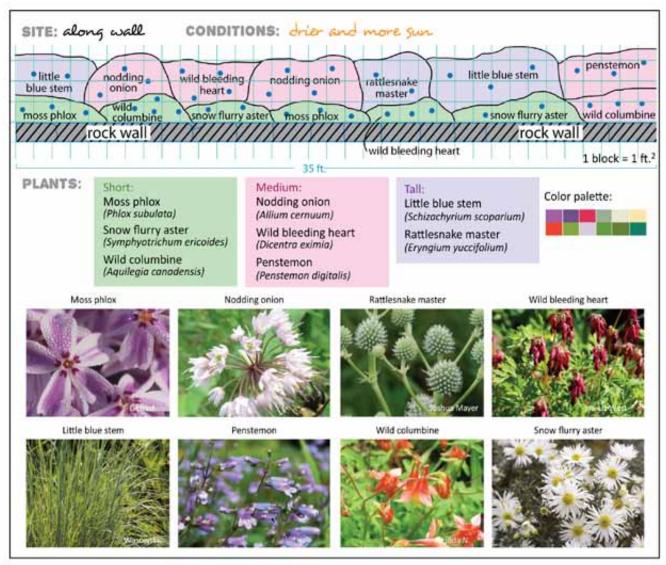
ROCK WALL GARDEN

A rock wall is a great spot to tuck in a whole garden full of drought-tolerant plants to creep, crawl and cascade over the rocks.





ROCK WALL GARDEN



PLANT ALTERNATIVES: drier and more shade

Short: Alumroot (Heuchera americana)
Golden alexanders
(Zizia aurea) Green and gold
(Chrysogonum virginianum)

Medium: Geranium (Geranium maculatum) Tall: Tall beliflower (Campanula americana)

DESIGN TEMPLATES

MAILBOX GARDEN



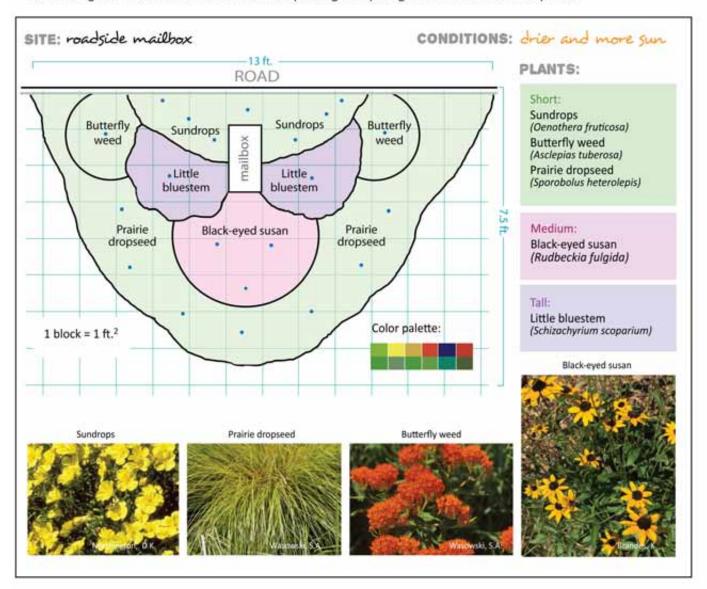
Dress up your mailbox with native perennials that will draw butterflies.



MAILBOX GARDEN

Helpful hints:

- Use plants that will tolerate and thrive in the conditions you have.
- Plant the big stuff first. Account for full size when planting and spacing. Then fill in with smaller plants.



MAILBOX GARDEN

PLANT ALTERNATIVES:

drier and more shade

Short:

Canada anemone (Anemone canadensis)

Green and gold (Chrysoganum virginianum)

Alumroot (Heuchera americana)

Medium:

Golden Alexanders (Zizia aurea)

Tall:

Sneezeweed (Helenium autumnale)

Golden Alexanders



wetter and more shade

Short:

Maidenhair fern (Adiantum pedatum)

Canada anemone (Anemone canadensis)

Foam flower (Tiarella cordifolia)

Medium:

Lady fern (Athyrium filix-femina)

Royal fern (Osmunda regalis)

Golden Alexanders (Zizia aurea)

Tall:

Sneezeweed (Helenium autumnale)

Swallowtail Butterfly



wetter and more sun

Short

Canada anemone (Anemone canadensis)

Pink Coreopsis (Coreopsis rosea)

Wild geranium (Geranium maculatum)

Medium:

Golden Alexanders (Zizia aurea)

Tall:

Blazing Star (Liatris spicata)

Garden Phlox (Phlox paniculata)

Purple Blazing Star



DESIGN TEMPLATES

FRONT PORCH GARDEN

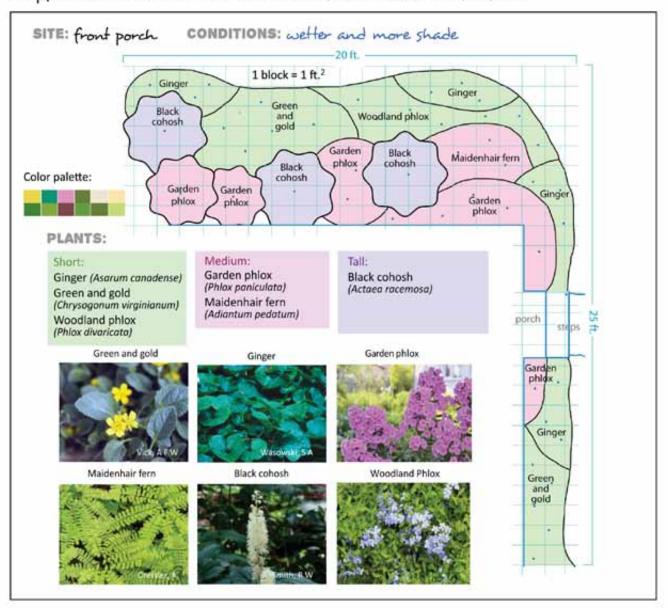
Gardens in the front of the house are often the ones we want looking the best since they are what most people see. Native plants can enhance the beauty of your home and landscaping.





FRONT PORCH GARDEN

Helpful hint: - Use plants that aren't so tall that they obscure the view from your porch.



FRONT PORCH GARDEN

PLANT ALTERNATIVES:

drier and more shade

Short:

Canada anemone (Anemone canadensis)

Green and gold (Chrysogonum virginianum)

Alumroot (Heuchera americana)

Allegheny pachysandra (Pachysandra procumbens)

Medium:

Bottlebrush Grass (Elymus hystrix)

Tall:

Sneezeweed (Helenium autumnale)

Bottlebrush Grass



drier and more sun

Short:

Nodding onion (Allium cernuum)

Butterfly weed (Asclepias tuberosa)

Threadleaf coreopsis (Coreopsis verticillata)

Alumroot (Heuchera americana)

Sundrops (Oenothera fruticosa)

Medium:

New Jersey tea (small shrub) (Ceanothus americanus)

Sweet fern (Comptonia peregrina)

Blue star amsonia (Amsonia hubrichtii)

Beardtongue penstemon (Penstemon digitalis)

Tall:

Anise hyssop (Agastache foeniculum)

Blue false indigo (Baptisia australis)

Grey-headed coneflower (Ratibida pinnata)

Little bluestem (Schizachyrium scoparium)

wetter and more sun

Short:

Canada anemone (Anemone canadensis)

Pink Coreopsis (Coreopsis rosea)

Wild geranium (Geranium maculatum)

Medium:

Dwarf fothergila (small shrub) (Fothergilla gardenii)

Meadowsweet (Spiraea alba)

Swamp milkweed (Asclepias incarnata)

Great blue lobelia (Lobelia siphilitica)

Tall:

Beebalm (Monarda didyma)

Cardinal flower (Lobelia cardinalis)

Dwarf fothergila



BACK PATIO GARDEN

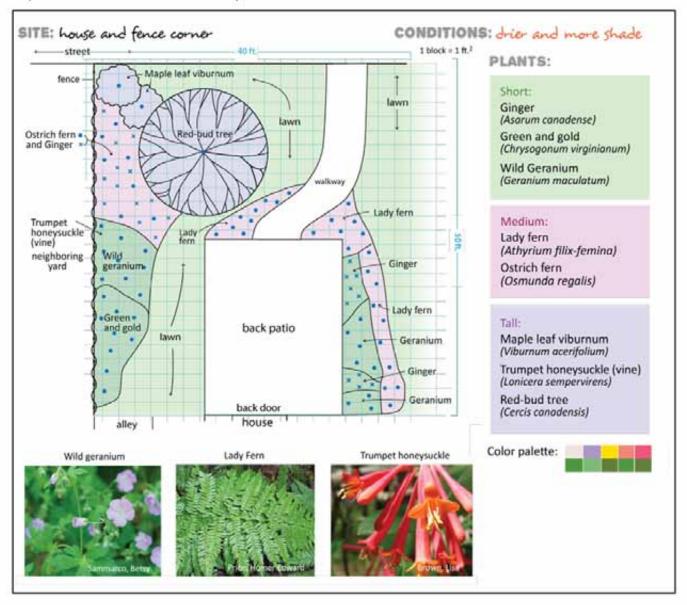
Backyards are often the places we relax and unwind. Lush gardens that draw in an array of birds and butterflies add to the allure of a backyard oasis.



BACK PATIO GARDEN

Helpful hints:

- Use a garden hose to lay out a natural looking garden border.
- For less weeding, use plants that grow in clumps.
- Massed plants that bloom at the same time will make a better showing. But you also want to incorporate other
 plants that bloom other times of the year.



BACK PATIO GARDEN

PLANT ALTERNATIVES:

drier and more sun

Short:

Moss phlox (Phlox subulata)

Alumroot (Heuchera americana)

Thread leaf coreopsis (Coreopsis verticillata)

Medium:

Amsonia

(Amsonia hubrichtii)

Beardtongue (Penstemon diaitalis)

Black-eyed susan (Rudbeckia fulgida)

Tall:

Little bluestem (Schizachyrium scoparium)

New Jersey tea (Ceanothus americanus)

Oak leaf hydrangea (small) (Hydrangea quercifolia 'Pee Wee')

Blue false indigo (Baptisia australis)

Red-bud tree (Cercis canadensis)

wetter and more shade

Short:

Maidenhair fern (Adiantum pedatum)

Green and gold (Chrysogonum virginianum)

Canada anemone (Anemone canadensis)

Golden Alexanders (Zizia aurea)

Christmas fern (Polystichum acrostichoides)

Ginger (Asarum canadense)

Bleeding heart (Dicentra eximia)

Medium:

Great Blue Lobelia (Lobelia siphilitica)

Royal fern (Osmunda regalis)

Bee balm (Monarda didyma)

Tall:

Goat's beard (Aruncus dioicus)

Black cohosh (Actaea racemosa)

Clethra (small variety) (Clethra alnifolia 'Hummingbird')

Sneezeweed (Helenium autumnale)

Spice bush (Lindera benzoin)

wetter and more sun

Short:

Canada anemone (Anemone canadensis)

Pink Coreopsis (Coreopsis rosea)

Wild geranium (Geranium maculatum)

Medium:

Turtlehead (Chelone obliqua)

Garden Phlox (Phlox paniculata)

Bee balm (Monarda didyma)

Cardinal flower (Lobelia cardinalis)

Blazing star (Liatris spicata)

Tall:

Joe-pye weed (Eutrochium dubium)

Culver's root (Veronicastrum virginicum)

Winterberry (small variety) (Ilex verticillata 'Nana' RED SPRITE)

Dwarf fothergilla (Fothergilla gardenii)

Serviceberry (tree) (Amelanchier canadensis)

INSTALLING AND MAINTAINING THE GARDEN

If you're going to establish a new garden bed, you'll have to prep the area by removing the grass either by digging, tilling or smothering it. If you plan ahead, the easiest method is to begin in the early fall and lay down cardboard over the intended garden area, wet it, and cover that with a thick layer of leaf mulch and water again. By late spring you can plant into your new garden without doing anything more.

Once a garden bed is ready for planting (either one you've prepped or an existing one), the best times to plant are spring and fall.

It helps to place the larger plant material first (shrubs, grasses, big perennials). Leave enough space around them so that when they're fully grown they won't be crowded. Then fill in around the larger plant material with smaller plants.

Weeding is required even in the most well designed garden spaces. The key is to do a little, often. That way it doesn't get ahead of you. Once gardens are established, less weeding is needed. To help with identification, pictures of some of the common yard weeds are shown in Appendix A.

You might find some native plants at your local nursery. Purple coneflower and blackeyed susans are two of the most commonly available native perennials. You can also find native shrubs and trees. But there are many natives to choose from and in order to have the full selection available to you, visit a local nursery that specializes in these plants. For information on where to find these nurseries see the resource section on page 49.







Trading plants with a friend or neighbor is a very economical way to start incorporating natives into your garden. Consider that most of the plants included in this book can be shared. Perennials are easily divided. Participate in local perennial exchanges. Garden clubs are also great places to meet people with an interest in plants.

Allow your garden time to establish. It will take about three years to fully develop after it's planted. Shrubs will often take longer to reach maturity.

It's important to water new plants well until they get established (usually a few weeks). If plants are located in the growing conditions they prefer, extra watering won't be needed once they're established, except during very dry conditions.

Weeding is required, but as your garden fills in with the plants you want, less weeding will be needed.

You may choose to mulch your garden or actively weed until the new plants grow in fully. The quicker you cover the soil with plants or mulch, the better. Exposed soil = weeds.

Consider leaving plants in place to die back in the fall. This will help naturally feed the soil. Seed heads can be left if you're interested in plants reseeding and/or feeding the winter birds. Plants material that's left alone in the fall is easier for you, provides multiple benefits for wildlife, and enhances the textural interest of the winter landscape in your yard.

Here are five widely available native plants to look for at your nursery. Look for plant nurseries or mail order companies that specialize in natives to get access to a wider variety of native plants – there are many to choose from.

- Purple coneflower
- Black-eyed susan
- Garden phlox
- Winterberry
- Ninebark



Purple coneflower



Black-eyed susan



Garden phlox



Winterberry



Ninebark





APPENDICES AND TABLES

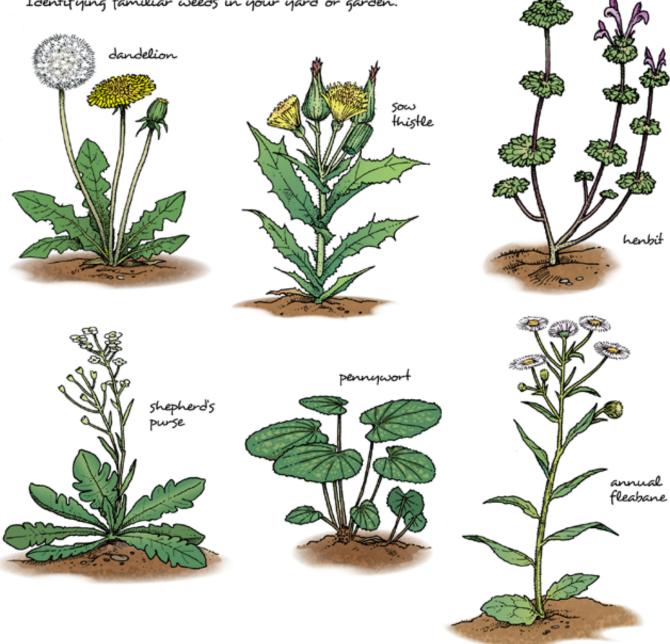
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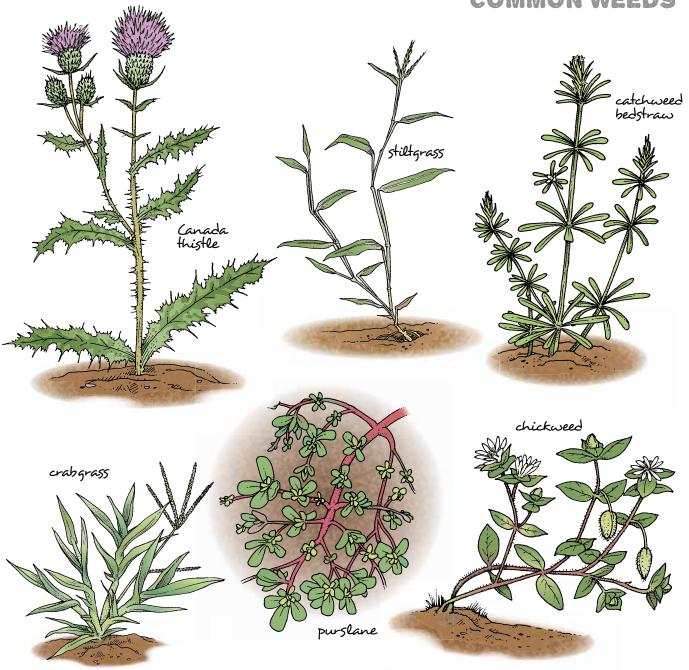
APPENDIX A

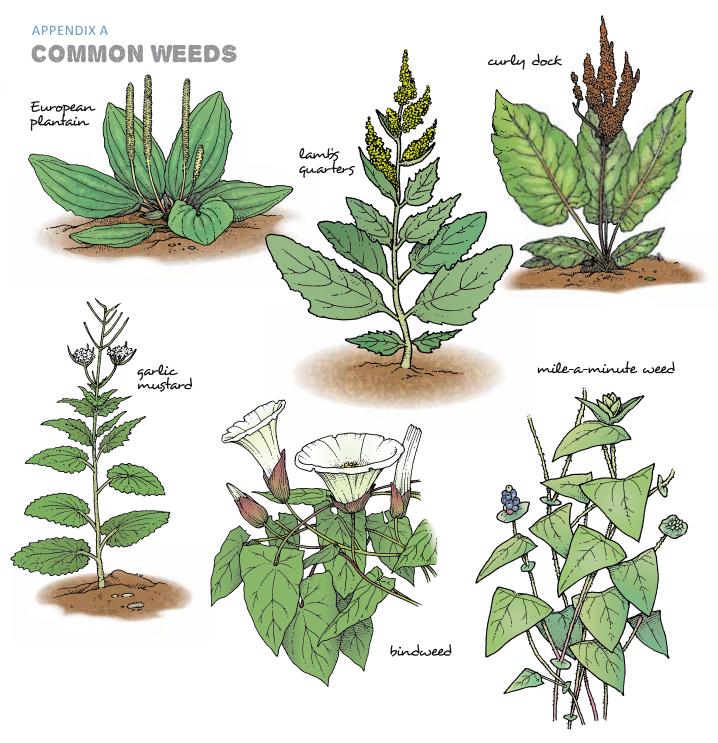
COMMON WEEDS

Identifying familiar weeds in your yard or garden.

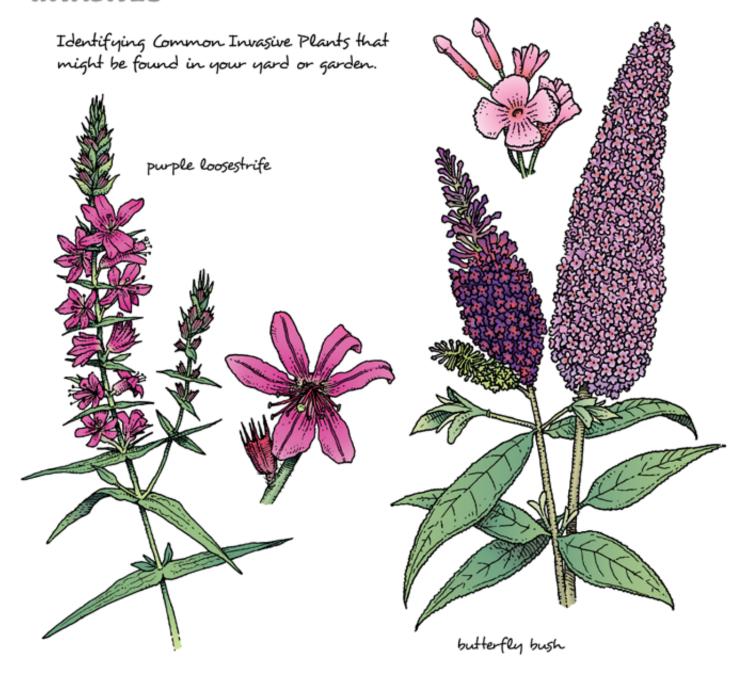


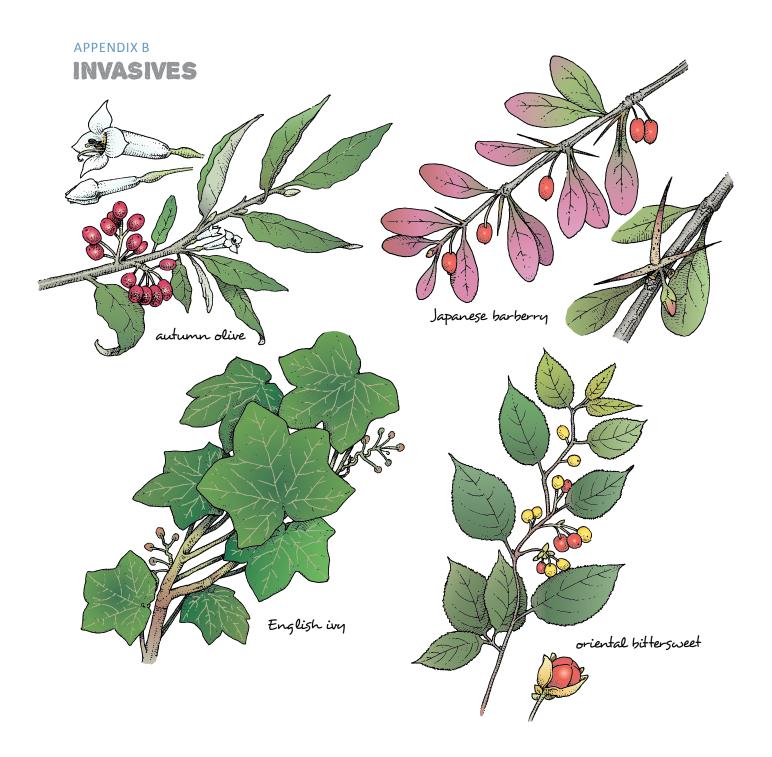
APPENDIX A COMMON WEEDS

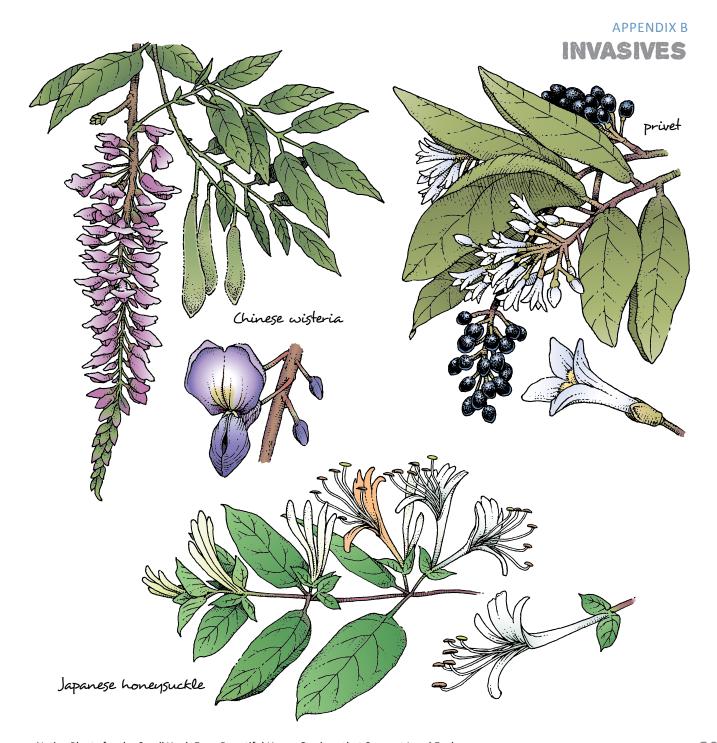




INVASIVES

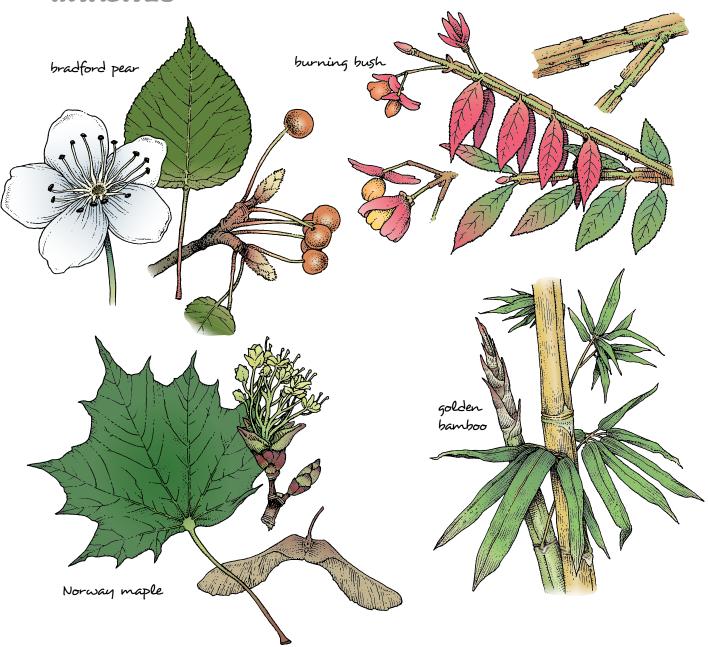






APPENDIX B

INVASIVES



NATIVE PLANT TABLE Native Plants to Consider for Smaller Spaces

This isn't an exhaustive list of all native plants, or the only ones that could do well in a small yard, but these are most of the native plants that will work in a typical residential landscape. This list gives you options for each of the template designs and/or any design you might be doing yourself. We've listed each plant in terms of height and growing conditions. Shrubs, vines, grasses and perennials are included. We have not listed trees here, but Table 2 (page 48) provides a list of small native trees to consider if you have a small yard.

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade	e - Dry to mediu	m Soil							
SHRUBS:									
Ceanothus americanus	New Jersey Tea	2-4 Ft	Sun to Part Shade	Dry to Medium	spring/sum	3-5 Ft	small shrub	white	drought, dry or, shallow-rocky soil
Comptonia peregrina	Sweet-Fern	2-4 Ft	Sun to Part Shade	Dry	NA	4-6 Ft	small shrub (does not trans- plant well once established; does well in poor soils)	NA	drought
Diervilla lonicera	Bush Honeysuckle	2-4 Ft		Dry to Medium	summer	2-4 Ft	small shrub	yellow	pruning
Hydrangea quercifolia	Oakleaf Hydrangea	6-8 Ft	Sun to Part Shade	Medium	spring/sum	6-8 Ft	shrub border, specimen shrub (winter interest; fall color)	white changing purplish pink	
Juniperus horizontalis	Creeping Juniper	0.5 Ft	Sun	Dry to Medium	NA	8-10 Ft	ground cover, rock gardens, retaining walls, mass on slopes (erosion control)	NA	deer, drought, dry soil, erosion shallow-rocky soil
Myrica pensylvanica	Bayberry	5-10 Ft	Sun to Part Shade	Dry to Medium	NA	5-10 Ft	shrub border (need one male plant to pollinate)	NA	drought, salt, wide range of soil moisture
Physocarpus opulifolius	Ninebark	5-8 Ft	Sun to Shade	Wet to Dry	spring	4-8 Ft	effective as hedge or screen, backdrop shrub (all season interest)	white/ pink	drought, erosion, clay soil, dry soil, shallow-rocky soil
Rhododendron atlanticum	Dwarf Azalea	2-6 Ft	Part Shade	Dry	spring	2-5 Ft	small shrub, patio specimen (best in acidic soils)	white	
Spiraea betulifolia	White Spirea	2-3 Ft	Sun	Medium	spring/sum	2-3 Ft	low hedge, specimen shrub	white	deer, wide range of soils
Viburnum acerifolium	Mapleleaf Viburnum	3-6 Ft	Sun to Shade	Dry to Medium	spring	2-4 Ft	shrub border, hedge	white	black walnut
Viburnum dentatum	Arrowwood Viburnum	6-10 Ft	Sun to Shade	Medium	spring	6-10 Ft	shrub borders, tall hedge or screen, backdrop	white	clay soil, black walnut

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade	e - Dry to Mediu	m Soil							
VINES:									
Aristolochia macrophylla	Dutchman's Pipevine	15 - 30 Ft	Sun to Part Shade	Medium	spring/sum	15 - 20 Ft	good for climbing pillars, posts, trel- lises, arbors, fences or walls (cut back in late winter to control growth)	yellow, purple	
Lonicera sempervirens	Trumpet Honeysuckle	6-15 Ft	Sun to Part Shade	Medium	spring/sum	3-6 Ft	cover for fence, arbor, trellis, wall, other structures	scarlet/ orange	deer, black walnut
Parthenocissus quinquefolia	Virginia Creeper	25- 40 Ft	Sun to Shade	Dry to Wet	NA	5-10 Ft	good climber for brick or stone walls, large trellises, arbors, or fences (must be trimmed regularly to keep in bounds; can ruin painted surfaces	NA	deer, drought, heavy shade, erosion, clay soil, black walnut
PERENNIALS and G	RASSES:								
Agastache foeniculum	Anise Hyssop	2-4 Ft	Sun to Part Shade	Dry to Medium	summer	1.5-3 Ft	midground, background plant, herb garden	lavender to purple	deer, drought, dry soil
Allium cernuum	Nodding Onion	1-2 Ft	Sun to Part Shade	Dry to Medium	summer	.05 Ft	foreground, rock garden	pink	deer, drought, dry soil, shallow- rocky soil, black walnut
Amsonia hubrichtii	Blue Star	2-3 Ft	Sun to Part Shade	Medium	spring	2-3 Ft	foreground, midground, rock gardens (best when massed)	blue	deer
Amsonia tabernaemontana	Eastern Blue Star	2-3 Ft	Sun to Part Shade	Dry to Medium	spring	2-3 Ft	foreground, midground, containers (best when massed)	blue	deer, drought, clay soil
Asclepias tuberosa	Butterfly weed	1-3 Ft	Sun to Part Shade	Dry to Medium	summer	1-2 Ft	foreground, midground (does not trans- plant well once established)	orange	deer, drought, erosion, dry soil, shallow-rocky soil
Aster oblongifolium	Aromatic Aster	1-3 Ft	Sun	Dry to Medium	sum/fall	1-3 Ft	foreground, midground	blue/ purple	drought, erosion shallow-rocky, clay soil, dry soil
Baptisia australis	Blue False Indigo	3-4 Ft	Sun to Part Sun	Dry to Medium	spring	3-4 Ft	midground (does not transplant well once estab- lished; attractive seed pods)	blue	rabbit, drought, erosion, shallow- rocky, clay or dry soil

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shace	de - Dry to Mediu	ım Soil							
PERENNIALS and	GRASSES (cont'd.):								
Callirhoe involucrata	Winecups	1 Ft	Sun to Part Shade	Dry to Medium	spring/sum	1-3 Ft.	foreground, rock walls, groundcover (long tap root makes transplanting difficult	purple	deer, drought, dry soil, shallow- rocky soil
Coreopsis verticillata	Threadleaf Coreopsis	1-3 Ft	Sun to Part Shade	Dry to Medium	summer	1-2 Ft	foreground (can spread aggressively)	yellow	deer, drought, dry soil, shallow- rocky soil
Echinacea purpurea	Purple Coneflower	2-4 Ft	Sun to Part Shade	Dry to Medium	summer	1-2 Ft	midground, background (long blooming)	purple	deer, drought, clay soil, dry soil, shallow-rocky soil
Elymus hystrix	Bottlebrush Grass	3 Ft	Sun to Part Shade	Dry to Medium	NA	1.5 Ft	midground (plant in shadier areas to keep from spreading too aggressively)	NA	drought, heavy shade, erosion, dry soil, black walnut
Eryngium yuccifolium	Rattlesnake Master	2-5 Ft	Sun	Dry to Medium	summer	2-3 Ft	midground, vertical interest (deep root system that should not be disturbed once established)	green- ish- white	drought, erosion, clay soil, dry soil, shallow-rocky soi
Heliopsis helianthoides	Oxeye	2-6 Ft	Sun	Dry to Medium	summer	2-4 Ft	midground (long blooming; good cut flower)	yellow	drought, erosion, clay soil, dry soil, shallow-rocky soil
Helenium autumnale	Sneezeweed	2-5 Ft	Sun	Medium	summer/ fall	2-3 Ft	midground	yellow	deer, clay soil, range of soil moisture
Heuchera americana	Alumroot	1-2 Ft	Sun to Part Shade	Dry to Medium	summer	1-1.5 Ft	foreground, ground cover, rock garden (attractive foliage)	green- ish- white	drought
Heuchera villosa	Hairy Alumroot	1-2 Ft	Sun to Part Shade	Medium	summer	1-2 Ft	foreground, rock gardens (best when massed)	white to pink	
Liatris spicata	Blazing Star	2-4 Ft	Sun	Dry to Medium	summer/ fall	1-2 Ft	foreground, midground, vertical accent	purple	drought, erosion, dry soil, shallow- rocky soil

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade	e - Dry to Mediu	m Soil							
PERENNIALS and O	GRASSES (cont'd.):								
Liatris squarrosa	Scaly Blazing Star	1-2 Ft	Sun	Dry	summer	1-2 Ft	foreground, midground, (good for rock gardens)	purple	
Monarda fistulosa	Wild bergamot	2-4 Ft	Sun to Part Shade	Dry to Medium	summer	2-3 Ft	midground	pink/ lavender	deer and black walnut
Monarda punctata	spotted beebalm	1-2 Ft	Sun to Part Shade	Dry to Medium	summer	1 Ft	foreground, containers	yellow w/ purple spots	deer, drought
Oenothera fruticosa	Sundrops	1-3 Ft	Sun to Part Shade	Dry to Medium	spring	1-2 Ft	foreground, rock garden (can be aggressive; plant in shadier locations to control spreading)	yellow	drought, erosion, dry soil, shallow-rocky soil
Opuntia humifusa	Prickly pear Cactus	Up to 1 Ft	Sun	Dry	spring/ summer	1-2 Ft	rock garden, stone walls, small area groundcover (winter interest)	yellow	rabbit, drought
Penstemon digitalis	Beardtongue	2-5 Ft	Sun to Part Shade	Dry to Medium	spring	1-2 Ft	midground	white	deer, drought, clay soil, dry soil
Penstemon smallii	Beardtongue	1-2 Ft	Sun to Part Shade	Dry to Medium	summer	1 Ft	foreground, rock garden	pink	deer, drought, dry soil
Phlox glaberrima	Smooth Phlox	2-4 Ft	Sun to Part Shade	Medium	spring	2- 2.5 Ft	midground	pink	deer
Phlox subulata	Moss Phlox	Up to 0.5 Ft	Sun	Dry	spring	1-2 Ft	ground cover, foreground, rock garden, spilling habit for rock wall	purple, pink, white	deer
Physostegia virginiana	Obedient Plant	2-4 Ft	Sun to Part Shade	Medium	summer	2-3 Ft	midground (can spread aggressively)	pink, white	deer, clay soil
Ratibida pinnata	Grey-head coneflower	3-5 Ft	Sun to Part Shade	Dry to Medium	summer	1.5- 2 Ft	midground (best when massed)	yellow	drought, clay soil
Rudbeckia fulgida	Black-eyed Susan	2-3 Ft	Sun to Part Shade	Dry to Medium	summer/ fall	2-3 Ft	midground	yellow/ orange	deer, drought, clay, dry or shallow-rocky soil
Ruellia humilis	Prairie Petunia	1-2 Ft	Sun to Part Shade	Dry to Medium	summer/ fall	1-2 Ft	foreground, rock garden	lavender	drought, dry soil, shallow-rocky soil
Schizachyrium scoparium	Little Bluestem	2-4 Ft	Sun to Part Shade	Dry to Medium	NA	1.5- 2 Ft	midground, back- drop	NA	deer, drought, erosion, dry soil, shallow-rocky soil, black walnut

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shad	e - Dry to Mediu	m Soil							
PERENNIALS and O	GRASSES (cont'd.):								
Sedum ternatum	Stonecrop	0.5 Ft	Sun to Part Shade	Medium	spring	.05 Ft	ground cover, rock garden	white	rabbit, deer, drought tolerant
Silene virginica	Fire Pink	1- 1.5 Ft	Sun to Part Shade	Dry to Medium	spring	Up to 1.5 Ft	foreground, rock garden	red	drought, clay or dry soil, shallow- rocky soil, deer
Solidago speciosa	Showy Goldenrod	2-6 Ft	Sun to Part Shade	Dry to Medium	summer/ fall	2-3 Ft	midground, back- drop (not as aggressive as other goldenrods)	yellow	deer, drought, clay soil
Symphyotrichum ericoides	Snow flurry aster	0.5 Ft	Sun	Dry to Medium	fall	1 Ft	rock gardens, ground cover, ledges	white	drought, erosion, clay, dry or shallow-rocky soil
Waldsteinia fragarioides	Barren Strawberry	0.5 Ft	Sun to Part Shade	Medium	spring	1 Ft	ground cover, rock garden,	yellow	deer, clay soil
Sun to Part Shad	e - Wet to Mediu	ım Soi							
SHRUBS:									
Aronia melanocarpa	Black Chokeberry	3-5 Ft	Sun to Part Shade	Wet to Medium	spring	3-6 Ft	shrub border (remove root suckers to prevent spread)	white	wet soil
Cephalanthus occidentalis	Buttonbush	6- 12 Ft	Sun to Part Shade	Wet to Medium	spring/ summer	4-8 Ft	good along pond edge, low spots (fragrant)	white	wet soil
Clethra alnifolia	Summer sweet	3-8 Ft	Shade to Sun	Wet to Medium	summer	4-6 Ft	background shrub, specimen shrub, good near patio (great for butterflies, fragrant, look for small varieties like 'Hummingbird' for small spaces)	white	heavy shade, erosion, clay soil, wet soil
Cornus sericea	Red osier Dogwood	6- 12 Ft	Sun to Part Shade	Wet to Medium	spring	7- 10 Ft	good as screen or shrub border (win- ter interest, remove root suckers to prevent spreading)	white	deer, erosion, clay soil, wet soil
Fothergilla gardenii	Dwarf Fothergilla	1.5- 3 Ft	Sun to Part Shade	Medium	spring	2-4 Ft	small shrub, nice accent	white	fragrant
Ilex glabra	Inkberry	5-8 Ft	Sun to Part Shade	Wet to Medium	NA	5-8 Ft	backdrop, low hedge (slow grow- ing, evergreen, winter interest)	NA	rabbit, deer, erosion, wet soil

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade	e - Wet to Mediu	ım Soi							
SHRUBS (cont'd.):									
Ilex verticillata	Winterberry	3- 12 Ft	Sun to Part Shade	Wet to Medium	spring	3- 12 Ft	backdrop shrub (attractive red berries in winter, need sepa- rate male and female plants for berries, look for smaller varieties like 'Sprite' for small spaces)	white	erosion, clay soil, wet soil,
Itea virginiana	Virginia Sweetspire	3-5 Ft	Sun to Shade	Wet to Medium	spring	4-6 Ft	backdrop shrub (fragrant)	white	heavy shade, erosion, clay or wet soil
Hydrangea quercifolia	Oakleaf Hydrangea	6-8 Ft	Sun to Part Shade	Medium	spring/ summer	6-8 Ft	shrub border, specimen shrub (winter interest, fall color)	white changing to pink	
Physocarpus opulifolius	Ninebark	5-8 Ft	Sun to Shade	Wet to Dry	spring	4-8 Ft.	effective as hedge or screen, backdrop shrub (all season interest)	white	drought, erosion, clay, dry or shallow- rocky soil
Rhododendron viscosum	Swamp Azalea	3-5 Ft	Part Shade	Wet to Medium	spring/ summer	3-5 Ft	small shrub (best grown in acidic soil)	white to purplish pink	
Rosa carolina	Pasture Rose	3-6 Ft	Sun to Part Shade	Wet to Medium	spring	5- 10 Ft	hedge (fragrant)	white/ pink	
Rhododendron calendulaceum	Flame Azalea	4-8 Ft	Part Shade	Medium	spring	8- 10 Ft	specimen shrub (best grown in acidic soil)	yellow to orange	
Rhododendron carolinianum	Carolina Azalea	3-6 Ft	Part Shade	Medium	spring	3-6 Ft	specimen shrub (best grown in acidic soil)	pink	
Spiraea alba	Meadowsweet	3-4 Ft	Sun to Part Shade	Medium	summer	3-4 Ft	small shrub (needs constant moisture)	white	deer, wet soil
Spiraea betulifolia	White Spirea	2-3 Ft	Sun	Medium	spring/ summer	2-3 Ft	low hedge, specimen shrub (tolerates wide range of soils)	white/ pink	deer
Vaccinium corymbosum	Highbush Blueberry	6-8 Ft	Sun to Part Shade	Wet to Dry	spring	6-8 Ft	Good hedge, back-drop shrub (plant with rhododendrons and azaleas which share similar acidic soil requirements), Makes an excellent hedge with the added benefits of summer fruit which can be harvested or left for the birds. Good fall color.	white	

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade	e - Wet to Medi	ım Soi	l i						
SHRUBS (cont'd.):									
Viburnum dentatum	Arrowwood Viburnum	6- 10 Ft	Sun to Shade	Medium	spring	6- 10 Ft	shrub border, tall hedge or screen, backdrop shrub	white	clay soil, black walnut
Viburnum nudum	Witherod Viburnum	5- 12 Ft	Sun to Shade	Wet to Medium	spring	5- 12 Ft	shrub borders, foundations, hedges, good selection for low spots and peripher- ies of water gardens, backdrop shrub (good fall foliage)	white	
Viburnum trilobum	American Cranberry bush Viburnum	6- 12 Ft	Sun to Shade	Wet to Medium	spring	8- 12 Ft	shrub borders, hedge or screen (good fall foliage)	white	
VINES:									
Aristolochia macrophylla	Dutchman's Pipevine	15- 30 Ft	Sun to Part Shade	Medium	spring/ summer	15- 20 Ft	good for climbing pillars, posts, trellises, arbors, fences or walls (intolerant of dry soils, cut back late winter to control growth, large, heart-shaped, densely overlapping leaves)	yellow, purple	
Lonicera sempervirens	Trumpet Honeysuckle	6- 15 Ft	Sun to Part Shade	Medium	spring/ summer	3-6 Ft	cover for fence, arbor, trellis, wall or other structures	scarlet/ orange	deer, black walnut
Parthenocissus quinquefolia	Virginia Creeper	25- 40 Ft	Sun to Shade	Dry to Wet	NA	5- 10 Ft	good climber for brick or stone walls, large trellises, arbors, or fences (trim regularly to keep in bounds, can ruin painted surfaces)	NA	deer, drought, heavy shade, erosion, clay soil, black walnut
PERENNIALS:									
Amsonia hubrichtii	Blue Star	2-3 Ft	Sun to Part Shade	Medium	spring	2-3 Ft	foreground, mid- ground, rock gardens (best when massed)	blue	deer
Anemone canadensis	Canada Anemone	1-3 Ft	Sun to Shade	Medium	spring	2 Ft	groundcover (low growing, spreading flower)	white	deer
Asclepias incarnata	Swamp Milkweed	2-4 Ft	Sun to Part Shade	Wet to Medium	summer	2-3 Ft	midground	pink	deer, clay soil, wet soil
Carex vulpinoidea	Fox Sedge		Sun to Part Shade	Medium to Wet	NA	1-2 Ft	foreground (can be weedy)	NA	deer
Chelone glabra	White turtlehead	1-3 Ft	Sun to Part Shade	Wet to Medium	fall	1.5- 2.5 Ft	foreground, mid- ground, good pond or water garden plant	white, tinged w/ pink	wet soil

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shad	e - Wet to Medi	um Soi	ı						
PERENNIALS (cont	'd):								
Chelone lyonii	Pink turtlehead	2-3 Ft	Sun to Part Shade	Wet to Medium	summer/ fall	1.5- 2.5 Ft	foreground, midground, good pond or water garden plant	pink	deer, wet soil
Coreopsis rosea	Pink Coreopsis	1-2 Ft	Sun to Part Shade	Wet to Medium	summer	1.5- 2.5 Ft	foreground, small area groundcover, rock gardens (long summer bloomer)	pink	deer, wide range of soil moisture
Eutrochium dubium	Little Joe-pye weed	3-4 Ft	Sun to Part Shade	Wet to Medium	summer	1-3 Ft	midground	mauve	deer, clay soil, wet soil
Eupatorium maculatum	Joe-pye weed	5-8 Ft	Sun to Part Shade	Wet to Medium	summer/ fall	1-2 Ft	backdrop	dusty rose	deer, clay soil, wet soil
Helenium autumnale	Sneezeweed	2-5 Ft	Sun	Medium	summer/ fall	2-3 Ft	midground	yellow	deer, clay soil, wet soil
Hibiscus moscheutos	Rose-mallow	3-7 Ft	Sun to Part Shade	Wet to Medium	summer	3-4 Ft	backdrop, along pond edge	white to pink	
Iris versicolor	Blue Flag Iris	2-3 Ft	Sun to Part Shade	Wet to Medium	spring	2-3 Ft	midground, around ponds	blue	deer, wet soil
Liatris spicata	Blazing star	2-4 Ft	Sun to Part Shade	Medium	summer	1- 1.5 Ft	midground, back- ground, vertical interest (does best in moist soils)	purple	drought, clay soil
Lobelia cardinalis	Cardinal Flower	2-4 Ft	Sun to Shade	Wet to Medium	summer	1-2 Ft	midground, vertical interest, pond edge	red	rabbit, deer, wet soil
Lobelia siphilitica	Great Blue Lobelia	2-3 Ft	Sun to Shade	Wet to Medium	summer	1- 1.5 Ft	midground, vertical interest, pond edge	blue	deer, heavy shade, wet soil
Monarda didyma	Bee Balm	2-4 Ft	Sun to Part Shade	Wet to Medium	summer	2-3 Ft	midground, vertical interest (plants can move around garden)	red	rabbit, deer, clay soil, wet soil, black walnut
Phlox carolina	Summer phlox	2-3 Ft	Sun	Wet to Moist	spring/ summer	1-2 Ft	midground	pink	deer, clay soil, wet soil
Phlox paniculata	Fall phlox	2-4 Ft	Sun to Part Shade	Medium	summer/ fall	2-3 Ft	midground (long-blooming)	pink, white	deer and black walnut

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shad	e - Wet to Medi	um Soil							
PERENNIALS (cont	'd):								
Sedum ternatum	Stonecrop	.05 Ft	Sun to Part Shade	Medium	spring	.05 Ft	ground cover, rock garden	white	rabbit, deer, drought
Sisyrinchium angustifolium	Blue-eyed grass	1-2 Ft	Sun to Part Shade	Medium	spring	1 Ft	foreground, ground cover, rock gardens (can spread)	blue	clay soil
Symphyotrichum novae-angliae	New England Aster	2-6 Ft	Sun to Part Shade	Medium	summer/ fall	2-3 Ft	midground (can spread)	purple	clay soil
Symphyotrichum novi-belgii	New York Aster	3-6 Ft	Sun to Part Shade	Medium	summer/ fall	2-3 Ft	midground (can spread)	purple	deer, clay soil, wet soil
Vernonia noveboracensis	New York ironweed	3-6 Ft	Sun to Part Shade	Wet to Medium	summer	3-4 Ft	backdrop	purple	
Veronicastrum virginicum	Culver's root	3-6 Ft	Sun to Part Shade	Wet to Medium	spring	3-4 Ft	midground, background, vertical interest	white	
Waldsteinia fragarioides	Barren Strawberry	.05 Ft	Sun to Part Shade	Medium	spring	1 Ft	ground cover, rock garden	yellow	deer, clay soil
Sun to Part Shade	e - Dry to Mediu	m Soil							
SHRUBS:									
Hydrangea arborescens	Smooth Hydrangea	3-5 Ft	Part Shade	Medium	summer	3-5 Ft	backdrop shrub	white	rabbit, erosion, clay, dry, wet, or shallow-rocky soil, black walnut
Physocarpus opulifolius	Ninebark	5-8 Ft	Sun to Shade	Wet to Dry	spring	4-8 Ft	hedge or screen, backdrop shrub (all season interest)	white/ pink	drought, erosion, clay soil, dry soil, shallow-rocky soil
Viburnum acerifolium	Mapleleaf Viburnum	3-6 Ft	Sun to Shade	Dry to Medium	spring	2-4 Ft	shrub border/hedge	white	black walnut
Viburnum dentatum	Arrowwood Viburnum	6- 10 Ft	Sun to Shade	Medium	spring	6- 10 Ft	shrub borders, tall hedge or screen, backdrop shrub	white	clay soil, black walnut
VINES:									
Parthenocissus quinquefolia	Virginia Creeper	25- 40 Ftt	Sun to Shade	Dry to Wet	NA	5- 10 Ft	Climber for brick or stone walls of build- ings, large trellises, arbors, or fences (must be trimmed regularly to keep in bounds, can ruin painted surfaces)	NA	deer, drought, heavy shade, erosion, clay soil, black walnut

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade	e - Dry to Mediu	m Soil							
PERENNIALS:									
Actaea racemosa	Black Cohosh	3-5 Ft	Shade to Part Shade	Medium	summer	2-4 Ft	backdrop (adds architectural height)	white	
Anemone canadensis	Canada Anemone	1-3 Ft	Sun to Shade	Medium	spring	2 Ft	groundcover (low growing, spreading flower)	white	deer
Aquilegia canadensis	Wild Columbine	1-3 Ft	Part Shade to Shade	Dry to Medium	spring	1- 1.5 Ft	foreground, rock garden (long tap root makes transplanting difficult)	red	rabbit, deer, drought, dry soil
Callirhoe involucrata	Winecups	1 Ft	Part Shade	Dry to Medium	spring/ summer	1-3 Ft	foreground, rock walls, groundcover	purple	drought, dry soil, shallow-rocky soil
Dryopteris marginalis	Evergreen Wood Fern	1-3 Ft	Shade to Part Shade	Dry to Medium	NA	1.5 - 2 Ft	foreground, containers, rock garden, along shaded walls or buildings (winter interest)	NA	rabbit, heavy shade, clay soil
Geranium maculatum	Wild geranium	1-2 Ft	Part Shade to Shade	Medium	spring	1- 1.5 Ft	foreground, small area ground- cover	pink	rabbit, deer, drought, dry soil
Monarda punctata	Spotted Beebalm	1-2 Ft		Dry to Medium	summer	1 Ft	foreground, containers	yellow with purple spots	deer, drought
Pachysandra procumbens	Allegheny Pachysandra	0.5- 1 Ft	Shade to Part Shade	Medium	spring	1-2 Ft	groundcover (attractive foliage)	white	drought, heavy shade
Polystichum acrostichoides	Christmas Fern	1-2 Ft	Shade to Part Shade	Medium	NA	1-2 Ft	foreground	NA	rabbit, deer, drought, heavy shade, erosion, dry soil, shallow-rocky soil
Sedum ternatum	Stonecrop	0.5 Ft	Sun to Part Shade	Medium	spring	.05 Ft	ground cover, rock garden (evergreen)	white	rabbit, deer, drought
Solidago caesia	Wreath Goldenrod	1-3 Ft	Sun to Shade	Dry to Medium	summer/ fall	1.5- 3 Ft	foreground, midground (does not spread aggressively as do some of the other goldenrod species and hybrids)	yellow	deer, drought, clay soil
Waldsteinia fragarioides	Barren Strawberry	.05 Ft	Sun to Part Shade	Medium	spring	1 Ft	ground cover, rock garden	yellow	deer, clay soil

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of: (Notes)
Sun to Part Shad	e - Wet to Medi	um Soi							
SHRUBS:									
Clethra alnifolia	Summer sweet	3-8 Ft	Sun to Shade	Wet to Medium	summer	4-6 Ft	background shrub, shrub in lawn, good near patio Great for butterflies, fragrant. Look for small varieties like 'Hummingbird' for small spaces	white	heavy shade, erosion, clay soil, wet soil
Euonymus americanus	Strawberry- bush	4-6 Ft	Shade to Part Shade	Medium	NA	4-6 Ft	shrub, hedge	NA	clay soil, black walnut
Eutrochium dubium	Little Joe-pye weed	3-4 Ft	Sun to Part Shade	Wet to Medium	summer	1-3 Ft	midground	mauve	deer, clay soil, wet soil
Hydrangea arborescens	Smooth Hydrangea	3-5 Ft	Part Shade	Medium	summer	3-5 Ft	backdrop shrub	white	rabbit, erosion, clay soil, dry soil, wet soil, shallow-rocky soil, black walnut
Itea virginiana	Virginia Sweetspire	3-5 Ft	Sun to Shade	Wet to Medium	spring	4-6 Ft	backdrop shrub, fragrant	white	heavy shade, erosion, clay soil, wet soil
Lindera benzoin	Spicebush	6- 12 Ft	Shade to Part Shade	Wet to Medium	spring	6- 12 Ft	shrub border	yellow	deer, drought, heavy shade, clay soil
Physocarpus opulifolius	Ninebark	5-8 Ft	Sun to Shade	Wet to Dry	spring	4-8 Ft	hedge or screen, backdrop shrub (all season interest)	white/ pink	drought, erosion, clay soil, dry soil, shallow- rocky soil
Rhododendron maximum	Rosebay Rhododendron	5- 15 Ft	Shade to Part Shade	Wet to Medium	summer	5- 12 Ft	shrub border (needs acidic soils)	white to pink	
Rhododendron periclymenoides	Pinxter	3-6 Ft	Part Shade	Medium	spring	4-7 Ft	specimen shrub (needs acidic soils)	white to pink	
Viburnum dentatum	Arrowwood Viburnum	6- 10 Ft	Sun to Shade	Medium	spring	6- 10 Ft	shrub borders, hedge or screen, backdrop shrub	white	clay soil, black walnut
Viburnum nudum	Witherod Viburnum	5- 12 Ft	Sun to Shade	Wet to Medium	spring	5- 12 Ft	shrub borders, hedge, low spots and peripheries of water gardens, backdrop shrub (good fall foliage)	white	
VINES:									
Parthenocissus quinquefolia	Virginia Creeper	25- 40 Ft	Sun to Shade	Wet to Dry	NA	5- 10 Ft	Climber for brick or stone walls of buildings, large trellises, arbors, or fences (must be trimmed regu- larly to keep in bounds; can ruin painted surfaces)	NA	deer, drought, heavy shade, erosion, clay soil, black walnut

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:	
Sun to Part Shade - Wet to Medium Soil										
PERENNIALS AND I	ERNS:									
Actaea racemosa	Black Cohosh	3-5 Ft	Shade to Part Shade	Medium	summer	2-4 Ft	backdrop (adds architectural height)	white		
Adiantum pedatum	Maidenhair Fern	1-2 Ft	Shade to Part Shade	Medium	NA	1- 1.5 Ft	foreground, midground (beautiful, lasting foliage)		heavy shade	
Anemone canadensis	Canada Anemone	1-3 Ft	Sun to Shade	Medium	spring	2 Ft	groundcover (low grow- ing, spreading flower)	white	deer	
Aruncus dioicus	Goat's-beard	3-6 Ft	Part Shade to Shade	Wet to Medium	spring	2-4 Ft	backdrop (can take time to establish in garden)	white	rabbit	
Asarum canadense	Wild Ginger	6- 12 Ft	Shade to Part Shade	Medium	spring	1- 1.5 Ft	foreground, ground- cover	brown	deer, heavy shade, erosion, wet soil	
Athyrium filix-femina	Lady Fern	1-3 Ft	Part Shade	Wet to Medium	NA	1 - 2.5 Ft	foreground, midground (nice texture)	NA	rabbit, heavy shade	
Carex vulpinoidea	Fox Sedge	1-3 Ft	Sun to Part Shade	Medium to Wet	NA	1-2 Ft	foreground (can be weedy)	NA	deer	
Chrysogonum virginianum	Green-and-gold	0.5 - 1 Ft	Shade to Part Shade	Medium to Wet	spring/ summer/ fall	1- 1.5 Ft	foreground, ground- cover (long bloomer)	yellow	heavy shade	
Cimicifuga racemosa	Black Cohosh	2-6 Ft	Part Shade to Shade	Medium	summer	2-4 Ft	midground, vertical interest (nice lasting green foliage)	white	rabbit	
Dicentra exima	Bleeding Heart	1-2 Ft	Shade to Part Shade	Medium	spring/ summer	1- 1.5 Ft	foreground (delicate foliage, long bloomer)	pink	rabbit	
Geranium maculatum	Wild geranium	1-2 Ft	Shade to Part Shade	Medium	spring	1- 1.5 Ft	foreground, small area groundcover	pink	rabbit, deer, drought, dry soil	
Iris cristata	Dwarf Crested Iris	Up to 0.75 Ft	Shade to Part shade	Medium	spring	0.5- 1 Ft	groundcover, rock garden	blue	deer, drought	
Lobelia cardinalis	Cardinal Flower	2-4 Ft	Sun to Shade	Wet to Medium	summer	1-2 Ft	midground, vertical interest, pond edge	red	rabbit, deer, wet soil	
Lobelia siphilitica	Great Blue Lobelia	2-3 Ft	Sun to Shade	Wet to Medium	summer	1- 1.5 Ft	midground, vertical interest, pond edge	blue	deer, heavy shade, wet soil	
Matteuccia struthiopteris	Ostrich Fern	3-5 Ft	Shade to Part Shade	Wet to Medium	NA	5-8 Ft	backdrop	NA	rabbit, heavy shade, clay soil	
Osmunda cinnamomea	Cinnamon Fern	2-3 Ft	Shade to sun	Wet to Medium	NA	2-3 Ft	midground (interesting texture)	NA	rabbit, heavy shade	

TABLE 1 Native Plant Table Continued

Scientific Name	Common Name	Approx. Height	Light	Moisture	Bloom Time	Approx. Width	Plant Use in Design	Color	Tolerant of:
Sun to Part Shade - Wet to Medium Soil									
PERENNIALS AND	FERNS (Cont'd):								
Osmunda regalis	Royal Fern	2-3 Ft	Shade to Part Shade	Wet to Medium	NA	2-3 Ft	midground, pond edge	white	rabbit, heavy shade, wet soil
Phlox divaricata	Wild Blue Phlox	1 Ft	Shade to Part Shade	Medium	spring	1 Ft	ground cover, foreground, rock garden	blue	deer, drought, clay soil, wide range of soil moisture
Phlox stolonifera	Creeping Phlox	0.5 - 1 Ft	Sun to Part Shade	Medium	summer	0.75- 1.5 Ft	foreground, ground- cover, rock garden	purple	rabbit, deer, drought, air pollution
Polygonatum biflorum	Solomon's Seal	1-3 Ft	Shade to Part shade	Medium	spring	1- 1.5 Ft	foreground, midground (graceful, arching habit)	white	
Polystichum acrostichoides	Christmas Fern	1-2 Ft	Shade to Part Shade	Medium	NA	1-2 Ft	foreground (evergreen)	NA	rabbit, deer, drought, heavy shade, erosion, wide range of soil moisture
Sanguinaria canadensis	Bloodroot	0.5 - 0.75 Ft	Shade to Part Shade	Medium	spring	0.5 Ft	foreground (very early spring bloomer, interesting foliage)	white	wide range of soil moisture
Sedum ternatum	Stonecrop	0.5 Ft	Sun to Part Shade	Medium	spring	0.5 Ft	ground cover, rock garden	white	rabbit, deer, drought
Senecio aureus	Golden Ragwort	1-2 Ft	Shade to Sun	Wet to Medium	spring	0.5- 1.5 Ft	foreground, ground- cover (semi-evergreen)	yellow	wet soil
Smilacena racemosa	False Solomon's Seal	1-3 Ft	Shade to Part shade	Medium	spring	1-3 Ft	midground (graceful, arching habit)	white	
Stylophorum diphyllum	Wood Poppy	1-2 Ft	Shade to Part Shade	Medium	spring	1-3 Ft	foreground (spreads easily)	yellow	heavy shade, wet soil
Tiarella cordifolia	Foam Flower	0.5 - 1 Ft	Shade to Sun	Medium	spring	1-2 Ft	foreground, groundcover, rock garden	white	rabbit, deer
Waldsteinia fragarioides	Barren Strawberry	0.5 Ft	Sun to Part Shade	Medium	spring	1Ft	ground cover, rock garden	yellow	deer, clay soil

This table was compiled from information on the Missouri Botanical Garden Plant Finder website; the native plant database at the Ladybird Johnson Wildflower Center; Penn State Extension; and native plant information available on the Pennsylvania Department of Conservation and Natural Resources website.

TEN SMALL NATIVE TREES ideal for the yard

- 1. Red bud (Cercis canadensis)
- 2. Alternate dogwood (Swida alternifolia)
- 3. Sweetbay magnolia (Magnolia virginiana)
- 4. Smooth Blackhaw (Viburnum prunifolium)
- 5. Flowering dogwood (*Cornus florida*)
- 6. Buttonbush (Cephalanthus occidentalis)
- 7. Eastern red cedar (Juniperus virginiana)
- 8. Serviceberry (Amelanchier canadensis)
- 9. American witch hazel (Hamamelis virginiana)
- 10. Bottlebrush buckeye (Aesculus parviflora)



Sweetbay magnolia



Eastern red cedar



American witch hazel



Buttonbush



Red bud

TEN SMALL NATIVE TREES CONTINUED



Serviceberry



Alternate dogwood



Flowering dogwood



Bottlebrush buckeye



Smooth Blackhaw

RESOURCES

The online website **PlantNative** has a searchable database of native plant nurseries in each state.

http://www.plantnative.org

The National Wildlife Federation's website has information about gardening for wildlife. https://www.nwf.org/Gardenfor-Wildlife

The Pennsylvania Department of Conservation and Natural Resources website has information about landscaping with native plants.
https://www.dcnr.pa.gov/
Conservation/WildPlants/LandscapingwithNativePlants/Pages/default.aspx

"Everyone deserves beauty."

Bernadette Cozart

