



Application for Certification of Pollinator Friendly Garden Frederick County Maryland Master Gardeners



For more information
about the
Frederick County
Master Gardeners
go to
[bit.ly/FCMG-Home-
Gardening](http://bit.ly/FCMG-Home-Gardening)



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sion, sexual orientation,
marital status, age, national
origin, political affiliation,
physical or mental disability,
religion, protected veteran
status, genetic information,
personal appearance, or any
other legally protected class.

Certification of your Frederick County garden by University of Maryland Extension (UME) Master Gardeners is a two-step process.

FIRST, please complete this form describing your property, listing the plants in your garden and identifying the steps you have taken to make your property welcoming to pollinators. You may include photos or a sketch of your property to illustrate the layout of the garden and the location of critical plants, but this is not required.

SECOND, we will arrange a time to visit your garden. UME-trained Master Gardeners will visit your yard free of charge to assess your garden and discuss ways you might improve your pollinator-friendly landscape. **Please note that garden visits will occur only between April and October when plants are growing.**

We will happily answer any questions you may have while completing this form. **If for some reason you feel you cannot meet the requirement to plant four different species of trees and shrubs, we will consider waiving this requirement depending on the circumstances.**

Please indicate that you agree with the following statement by typing your name and the date in the spaces provided:

I certify that all the information provided in this application is true and that I will strive to use pollinator friendly practices in my garden.

Name

Date

In reference to the statement below, please select one of the following: ☐ Yes ☐ No

I grant the University of Maryland the right to use, reproduce and publish any photographs or sketches of my property for any purpose without compensation or any other consideration. I understand that if this material is available to the public, it will be anonymous; my name and address will not be included.

There is no cost for Certification. You may purchase an 8"x10" *Pollinator Friendly Garden* sign (shown above) for \$20 or a larger 11"x14" sign for \$30. Cash/Checks acceptable. Make check payable to: University of MD.

Please e-mail the completed form to:
birdadmimer@gmail.com and
cc: kkrasaus@umd.edu

or mail it/drop it off at:
UME Extension, Master Gardeners
330 Montevue Lane
Frederick, MD 21702



APPLICANT INFORMATION

Name _____

Street _____

City _____ Frederick County, Maryland Zip Code _____

Phone Number _____ Email _____

GARDEN INFORMATION

Is the garden at the same address as above? ☐ Yes ☐ No (if no, provide address below)

Street _____

City _____ Frederick County, Maryland Zip Code _____

1. Choose the option that best describes the property being certified

- | | | |
|--|---|---|
| <input type="checkbox"/> Townhouse/Duplex | <input type="checkbox"/> Single Family Home | <input type="checkbox"/> School |
| <input type="checkbox"/> Business | <input type="checkbox"/> Farm | <input type="checkbox"/> Community Garden |
| <input type="checkbox"/> Other, please describe: _____ | | |

2. Location

- ☐ Urban ☐ Suburban ☐ Rural

3. How large is your property?

- ☐ less than 1/4 acre ☐ 1/4 to 1/2 acre ☐ 1/2 to 1 acre ☐ 1+ acres

Please describe your garden habitat by marking the appropriate information. Mark all descriptors that apply.

4. Are neighboring properties primarily

- ☐ Lawn ☐ Garden ☐ Meadow ☐ Farm ☐ Wooded

5. Light exposure

- ☐ Full sun ☐ Morning sun, afternoon shade ☐ Morning shade, afternoon sun ☐ Full shade

6. Soil

- ☐ Sandy ☐ Clay ☐ In-between

7. Topography

- ☐ Flat ☐ Sloped ☐ Hilly

8. What percentage of your property is covered by native plants? _____ Percent



Pollinator friendly gardens offer food, water, shelter, and a safe habitat

FOOD

In order for your garden to be certified as pollinator-friendly, you should grow both native and non-native plants that support the insect life cycle. Some plants that are recommended for local gardens are listed in **Appendices 1 and 2** at the back of this application. For additional information on critical pollinator plants in our area refer to:

<https://www.nwf.org/Garden-for-Wildlife/About/Native-Plants/keystone-plants-by-ecoregion>

When adding to your garden, choose plants that provide pollen and nectar from early spring through late fall. You should provide a variety of flower shapes and sizes. It is recommended that you plant at least 3 plants or have 3 square feet of the same plant species together. Insects expend considerable energy if they have to fly long distances to find their preferred plant type.

PLEASE NOTE: The numbers of trees, shrubs, and perennials/annuals requested in this application assumes that you live in a standard single-family house situated on at least a quarter-acre lot.

NATIVE TREES AND SHRUBS: Please list at least 4 different species of trees and shrubs (any combination) that you grow that support beneficial insects. Please identify those that are host plants for caterpillars and name the butterfly or moth larvae that the plant supports. Refer to Appendix 1, Tables 1 and 2 for recommended trees and shrubs.

NATIVE TREES AND SHRUBS in my garden			
Botanical Name	Common Name	Number of plants	Comment
<i>Vaccinium corymbosum</i>	Highbush Blueberry	6	15-year-old plants; Host to Brown Elfín, Henry's Elfín, Spring Azure and Striped Hairstreak caterpillars

A nearby neighbor's tree or shrub may be acceptable, comment as "Neighbor's".



NATIVE PERENNIAL FLOWERS: Please list at least 6 different species of native perennial plants that you grow to support beneficial insects. Ideally you will have at least 2 species that bloom in the spring, 2 that bloom in the summer, and 2 that bloom in the fall to support insects while they are active. Please identify those that are host plants for caterpillars and name the butterfly or moth larvae that the plant supports. Refer to Appendix 1, Tables 3, 4 and 5 for recommended native perennials.

NATIVE PERENNIAL FLOWERS in my garden				
Bloom Season	Botanical Name	Common Name	Number of plants	Comment
May-June	<i>Asclepias incarnata</i>	Swamp milkweed	3	Host to Monarch caterpillars

NON-NATIVE PERENNIAL PLANTS, HERBS, or FLOWERS: Please list at least 2 different species of nonnative plants that you grow to support beneficial insects. Please identify those that are host plants for caterpillars and name the butterfly or moth larvae that the plant supports. Refer to Appendix 2, Table 6 for recommended non-native perennials.

NON-NATIVE PERENNIAL FLOWERS in my garden				
Bloom Season	Botanical Name	Common Name	Number of plants	Comment
July-September	<i>Anethrum graveolens</i>	Dill	3	Host to Black Swallowtail caterpillars



WATER AND SHELTER

Provide Water

Pollinators need a source of water. Please check all that apply below to your garden:

Yes	Pollinator Water Sources in my garden	Comment
	Birdbath (provide stones for bees to land)	
	Shallow water source (provide stones for bees to land)	
	Butterfly puddling area	
	Water garden/pond	
	Stream	
	Spring	
	Other	

Provide Shelter

Pollinators need places to build their nests and to spend the winter. Please check all that apply to your garden:

Yes	Pollinator Shelter in my garden	Comment
	Areas of bare soil	
	Brush/wood pile	
	Rock pile or wall	
	Dead wood	
	Man-made nesting shelter (like boxes, tubes, flowerpots, holes in wood)	
	Leaf cover (In the fall, leave leaves in place or add more leaves to flower beds until spring)	
	Leave plant stalks standing until spring	
	Other	



SAFETY

Reduce Pesticide and Herbicide Use

Pesticides can harm pollinators both when they visit plants and when they carry the pesticide back to their nest. Use Integrated Pest Management (IPM) practices to control pests in your garden.

For more info on IPM: <https://extension.umd.edu/resource/ipm-prevent-identify-and-manage-plant-problems>

Yes	Reducing pesticide and herbicide use in my garden (check all that apply below)
<input type="checkbox"/>	I avoid the broad use of herbicides to control weeds. Instead I use mechanical techniques such as digging and hoeing.

I follow integrated pest management (IPM) to control insects in my garden, and always do the following:

<input type="checkbox"/>	I clearly identify the insect before taking action to ensure it is actually harmful.
<input type="checkbox"/>	I try mechanical means like picking a harmful insect off the plant as my first control.
<input type="checkbox"/>	I use least toxic pesticides, such as horticultural oil and insecticidal soap.
<input type="checkbox"/>	I always follow label directions.
<input type="checkbox"/>	I never spray plants in bloom.
<input type="checkbox"/>	I spray late in the evening when bees are less active and to minimize pesticide drift.
<input type="checkbox"/>	I target spray only the problem spots.
<input type="checkbox"/>	I discourage indiscriminate spraying for mosquitoes and ticks. As an alternative mosquito control technique, I use the bucket/dunk method (https://ui.charlotte.edu/story/try-‘bucket-doom’-eliminate-mosquitoes-without-harmful-pesticides).

Reduce/Remove Invasive Plants

Invasive plants threaten pollinators by endangering and reducing the availability of native plants. We can help sustain our native plants by not planting invasive plants and removing existing invasive plants on our properties and gardens. **Refer to Appendix 3, Table 7, for common invasive plants.** For more information on invasive plants in the Maryland region: <https://www.invasive.org/alien/pubs/midatlantic/midatlantic.pdf>

Yes	Reducing invasive plants in my garden	Identify targeted invasive plants
<input type="checkbox"/>	I avoid acquiring invasive ornamental plants by consulting the above website first.	
<input type="checkbox"/>	I have removed or am removing invasive plants on my property.	

Reduce Light Pollution

Outdoor lighting has been shown to be detrimental to insect behavior. It disrupts insect and bird navigation and circadian rhythms, leads to increased predation, and interferes with foraging, mating and reproduction.

Yes	Reducing light pollution on my property
<input type="checkbox"/>	I am reducing outdoor light pollution by putting lights on timers, putting security lights on motion sensors, using safety lights only when absolutely necessary, and turning off lights when not in use.
<input type="checkbox"/>	I have replaced light bulbs producing white light with LEDs, preferably those producing yellow light.



Appendix 1

Recommended NATIVE Pollinator Plants for Frederick County

H = Host to one or more insect species. **Plants in bold are keystone plants.** They are highly recommended because of the number of different insect species they support.

Table 1 NATIVE TREES

Botanical Name	Common Name
Aesculus pavia	Red Buckeye
Amelanchier species	Serviceberry (H)
Asimina triloba	Paw Paw (H)
Betula species	Birch (H)
Celtis occidentalis	Hackberry (H)
Cercis canadensis	Redbud (H)
Chionanthus virginicus	White Fringetree (H)
Cornus florida	Flowering Dogwood (H)
Diospyros virginiana	Common Persimmon (H)
Ilex opaca	American Holly (H)
Juglans nigra	Black Walnut (H)
Liriodendron tulipifera	Tulip Tree/Popular (H)
Magnolia virginiana	Sweetbay Magnolia (H)
Ostrya virginiana	American Hophornbeam (H)
Oxydendrum arboreum	Sourwood (H)
Prunus virginiana	Chokecherry (H)
Quercus species	White, Red Oak (H), etc.
Robinia pseudoacacia	Black Locust (H)
Salix nigra, Salix discolor	Black Willow
Sassafras albidum	Sassafras (H)
Tilia Americana	Basswood (H)

Table 2 NATIVE SHRUBS

Botanical Name	Common Name
Aronia melanocarpa	Black Chokeberry (H)
Aronia arbutifolia	Red Chokeberry (H)
Calycanthus floridus	Carolina Allspice
Ceanothus americanus	New Jersey Tea (H)
Cephalanthus occidentalis	Buttonbush
Clethra alnifolia	Summersweet
Cornus alternifolia	Pagoda Dogwood
Cornus amomum	Silky Dogwood
Cornus sericea	Red Twig Dogwood
Crataegus monogyna	Common Hawthorn (H)
Hamamelis virginiana	Witch Hazel (H)
Hydrangea arborescens	Smooth Hydrangea
Ilex glabra	Inkberry Holly
Itea virginica	Virginia Sweetspire
Kalmia latifolia	Mountain Laurel
Lindera benzoin	Spicebush (H)
Physocarpus opullifolius	Ninebark (H)
Rhus species	Sumac (H)
Rosa species	Carolina, Swamp Rose (H)
Rubus allegheniensis	Allegheny Blackberry
Vaccinium species	Blueberry (H)
Viburnum species	Viburnum (H)

Table 3 NATIVE PERENNIAL FLOWERS: Early Season Bloom (April/May)

Botanical Name	Common Name
Antennaria neglecta	Field Pussytoes
Aquilegia canadensis	Wild Columbine (H)
Baptisia australis	False Blue Indigo (H)
Baptisia tinctoria	Yellow Wild Indigo (H)
Chrysogonum virginianum	Green & Gold
Claytonia virginica	Spring Beauty
Coreopsis lanceolata	Lanceleaf Coreopsis (H)
Coreopsis verticillata	Threadleaf Coreopsis
Dicentra cucullaria	Dutchman's Breeches

Botanical Name	Common Name
Geranium maculatum	Wild Geranium (H)
Huechera villosa	Hairy Alumroot
Packera aurea	Golden Ragwort (H)
Penstemon digitalis	Foxglove Beardtonque (H)
Penstemon laevigatus	Eastern Smooth Beardtonque
Phlox species	Creeping, Wild Blue phlox (H), etc.
Sanguinaria canadensis	Bloodroot
Tiarella cordifolia	Foamflower
Viola species	Violets (H)
Zizia aurea	Golden alexander (H)



Appendix 1

Recommended NATIVE Pollinator Plants for Frederick County

H = Host to one or more insect species. **Plants in bold are keystone plants.** They are highly recommended because of the number of different insect species they support.

Table 4 NATIVE PERENNIAL FLOWERS
Mid-Season Bloom (June/August)

Botanical Name	Common Name
<i>Asclepias incarnata</i>	Swamp Milkweed (H)
<i>Asclepias syriaca</i>	Common Milkweed (H)
<i>Asclepias tuberosa</i>	Butterfly Weed (H)
<i>Asclepias verticillate</i>	Whorled Milkweed (H)
Coreopsis species	Tickseed
Echinacea purpurea	Purple Coneflower
Eutrochium purpureu	Joe Pye (H)
<i>Eupatorium perfoliatum</i>	Boneset (H)
Helenium autumnale	Common Sneezewood
Helianthus species	Perennial Sunflowers (H)
<i>Heliopsis helianthoides</i>	Oxeye Sunflower
<i>Liatris spicata</i>	Blazing Star
<i>Lobelia cardinalis</i>	Cardinal Flower
<i>Lobelia siphilitica</i>	Great Blue Lobelia
<i>Lonicera sempervirens</i>	Trumpet Honeysuckle (H)
<i>Monarda didyma</i>	Scarlet Bee Balm
<i>Monarda fistulosa</i>	Wild Bergamot
<i>Monarda punctata</i>	Spotted Bee Balm (Horsemint)
Oenothera species	Common Evening Primrose
<i>Phlox paniculate</i>	Garden Phlox (H)
<i>Physostegia virginiana</i>	Obedient Plant
<i>Pycnanthemum species</i>	Mountain Mint
Rudbeckia fulgida	Orange Coneflower
Rudbeckia hirta	Black-eyed Susan (H)
Rudbeckia laciniata	Cutleaf Coneflower
<i>Tradescantia ohioensis</i>	Spiderwort
<i>Tradescantia virginiana</i>	Spider Lily
<i>Veronicastrum virginicum</i>	Culver's Root

Table 5 NATIVE PERENNIAL FLOWERS
Late-Season / Fall Bloom (September/October)

Botanical Name	Common Name
<i>Chelone glabra</i>	White Turtlehead (H)
<i>Conoclinium coelestinum</i>	Blue Mistflower
<i>Eupatorium hyssopifolium</i>	Thoroughwort
<i>Eurybia divaricata</i>	White Wood Aster (H)
Rudbeckia triloba	Brown-eyed Susan
Solidago species	Goldenrod (H)
Symphotrichum species	Aster species (H)



Appendix 2

Recommended NON-NATIVE Pollinator Plants for Frederick County

Table 6 NON-NATIVE PERENNIAL PLANTS, HERBS or FLOWERS and SEASON

Botanical Name	Common Name	Blooming Period
<i>Achillea millefolium</i>	Yarrow (H)	August-October
<i>Agastache foeniculum</i>	Anise Hyssop	June-October
<i>Allium schoenoprasum</i>	Chives (H)	July-August
<i>Anethum graveolens</i>	Dill (H)	July-August
<i>Borago officinalis</i>	Borage	June-July
<i>Cornus mas</i>	Cornelian Cherry Tree (H)	March-April
<i>Foeniculum vulgare</i>	Fennel (H)	July-August
<i>Gaillardia x grandiflora</i>	Blanket Flower	July-September
<i>Helianthus annuus</i>	Common Sunflower (H)	July-October
<i>Lavandula angustifolia</i>	Lavender	June-November
<i>Mirabilis jalapa</i>	Four O'Clocks	July-October
<i>Ocimum basilicum</i>	Basil (H)	July-October
<i>Origanum species</i>	Oregano	June-September
<i>Petroselinum crispum</i>	Parsley (H)	July-August
<i>Salvia elegans</i>	Pineapple Sage	September-October
<i>Sedum species</i>	Sedum	August-October
<i>Thymus citriodorus</i>	Lemon Thyme	June-August
<i>Thymus vulgaris</i>	Common Thyme	June-August
<i>Tithonia rotundifolia</i>	Mexican Sunflower 'Torch'	July-October
<i>Zinnia species</i>	Zinnias	June-August

Appendix 3

Common Invasive Plants in Frederick County

Table 7 COMMON INVASIVE PLANTS TO BE REMOVED/CONTROLLED

#	Common Name
1	Autumn Olive
2	Bamboo
3	Burning Bush
4	Bush Honeysuckles
5	Butterfly Bush
6	Callery Pear (Bradford)
7	Chinese/Oriental Bittersweet
8	Chinese/Japanese Wisteria

#	Common Name
9	Crown Vetch
10	English Ivy
11	Fig Buttercup
12	Garlic Mustard
13	Japanese Barberry
14	Japanese Honeysuckle
15	Japanese Knotweed

#	Common Name
16	Japanese Stiltgrass
17	Kudzu
18	Multiflora Rose
19	Norway Maple
20	Privet
21	Purple Loosestrife
22	Russian Olive
23	Tree of Heaven



Appendix 3: A Few Recommended Resources

UMD Extension Pollinator Gardens

<https://extension.umd.edu/resource/pollinator-gardens>

UMD Extension Lawn Alternatives

<https://extension.umd.edu/resource/lawn-alternatives>

Pollinator Partnership

<https://www.pollinator.org>

Native Plants

Native Plants for Wildlife Habitat and Conservation Landscaping

<https://dnr.maryland.gov/criticalarea/Documents/chesapeakenatives.pdf>

Maryland Native Plant Society

<https://mdflora.org>

National Wildlife Federation, Keystone Plants

<https://www.nwf.org/Garden-for-Wildlife/About/Native-Plants/keystone-plants-by-ecoregion>

<https://www.nwf.org/-/media/Documents/PDFs/Garden-for-Wildlife/Keystone-Plants/NWF-GFW-keystone-plant-list-ecoregion-8-eastern-temperate-forests.ashx?la=en&hash=1E180E2E5F2B06EB9ADF28882353B3BC7B3B247D>

Master Gardeners of Northern Virginia

<https://mgnv.org/plants/native-plants/>

Insects

Xerces Society

<https://xerces.org>

US Forest Service, Pollinators

<https://www.fs.fed.us/wildflowers/pollinators/>

Attracting Pollinators to the Garden

https://www.fs.fed.us/wildflowers/pollinators/documents/AttractingPollinatorsEasternUS_V1.pdf

Maryland Department of Natural Resources, All About Pollinators

<https://dnr.maryland.gov/wildlife/Pages/habitat/wawhatsthebuzz.aspx>

Environmental Gardening

Homegrown National Park (Doug Tallamy)

<https://homegrownnationalpark.org>

Humane Gardening

<https://www.humanegardener.com>