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FactSheet

Extension

Ohio State University Extension Fact Sheet

School of Natural Resources

2021 Coffey Road, Columbus, OH 43210

Butterfly Gardens

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Landscaping even the smallest areas will provide habitat for many butterfly species. You can create suitable habitat for butterflies in your yard by selecting the appropriate flowering plants. Not only will you attract beautiful butterflies, but your yard also will be filled with colorful flowers throughout spring, summer, and fall. Creating butterfly gardens is easy and fun; learn how to spice up your yard to attract butterflies.

How to create butterfly habitat

Only a small amount of space is needed to provide butterfly habitat. You can create butterfly-friendly habitat by providing food (nectar plants), cover, water, and larval plants.

- Before you start, plan ahead.
- Map your yard and determine what environmental conditions you have (i.e., soil type and amount of sun).
- Locate gardens near areas that are sheltered from wind.
- Select areas that receive at least six hours of direct sunlight each day.
- Plant flowers in large diverse groups.
- Choose plants that vary in color, season of bloom, and height to provide different foraging opportunities and maximum year-round habitat for butterflies.
- Choose flowers with different structures. Butterflies have different length proboscises (tongues) that determine which flowers they can feed from.
- Provide cover and shelter such as broad-leaved trees, shrubs, and log piles.
- Provide several landing pads or sunbathing perches in open and sunny areas throughout the garden. Butterflies rely to a large degree on thermal heating and sunbathe in these open spots.
- Provide a water source or puddle for butterflies. Bury a bucket or shallow lid in the ground and fill

- it with equal ratios of sand and soil, then periodically saturate the sand/soil mixture with water.
- Provide access to the water puddle by placing a few large rocks around the bucket or lid.

Which kinds of flowers should I plant?

Choosing a diverse array of flowers and shrubs will ensure that butterflies visit your garden while creating a bright, diverse, and colorful yard throughout the seasons. Adding a variety of flowering and fruiting shrubs to your butterfly garden also will undoubtedly attract several birds (including hummingbirds) to your yard. The table below lists the plant species, which butterfly species it attracts, what environmental conditions are needed to grow it, and which season the plant produces flowers. An asterisk (*) indicates that the plant also attracts hummingbirds.

Plant Species Season		Description	Growth Requirements	Butterflies It Attracts		
New England Aster (Aster novae- angliae)	ster novae- Fall violet 1" f.		Moist low fertile soils, full sun	Variety; red admiral, painted lady, monarch, pearl crescent, whites, sulphurs		
Sky Blue Aster (Aster azureus)	Summer- Fall	24-36", perennial, blue flowers	TVIOIDE OF GLY	Pearl crescent, whites, sulphurs		
Smooth Aster (Aster laevis)	Summer- Fall	2-4', perennial, violet flowers	Well drained soils, sunny areas	Red admiral, pearl crescent, whites, sulphurs		
Bee Balm (Monarda didyma)*	Summer	2-5', perennial, scarlet flowers in tubular whorls	Rich to moist soils, full sun to light shade	Variety; painted lady, cabbage, milbert's tortoise shell, mourning cloak, eastern tiger swallowtail		
Wild Bergamot (Monarda fistulosa)	Summer	2-4', perennial, lavender-pink flowers	Dry calcareous soils, full sun cabbage, to light shade	Variety; painted lady, milbert's tortoise shell		
Black-eyed Susan (Rudbeckia hirta)	Summer- Fall	18-48", perennial, yellow flowers	Moist soils, sunny areas	Whites, sulphurs, brushfoots, skippers, blue		
Dense Blazing Star (Liatris spicata)	se Blazing Star Summer 1-6', perennial, purple flowers in		Moist, acidic soils, full sun	Painted lady, fritillaries, skippers, sulphurs, coppers, checkerspots		
Rough Blazing Star (Liatris aspera)	Summer- Fall	2-4', perennial, purple flowers, broad flower head	Dry sandy soils, full sun	Painted lady, fritillaries, skippers, sulphurs, coppers, checkerspots		
Butterfly Weed (Asclepias tuberosa)	Late Summer- Early Fall	1-2', perennial, various flower colors, drought tolerant	Grows well in most any area	Variety; monarch, red admiral, swallowtails, skippers, larvae		
Cardinal Flower (Lobelia cardinalis) Summer- Fall		2-5', perennial, red flower	Moist soils, partial shady areas	Best for hummingbirds, bound to attract variety of butterflies		

Wild Columbine (Aquilegia canadensis)* Spring- Summer		1-3', perennial, red to pink, unique flower structure	Sunny to shady areas	Best for hummingbirds, bound to attract variety of butterflies	
Common Boneset (Eupatorium perfoliatum) Summer-Fall		2-4', perennial, white flowers in flat cluster	Moist soils, open areas	Variety; painted lady, red admiral, tiger swallowtail monarch, silver-spotted skipper	
Greater Coreopsis (Coreopsis major)* Summer		18-36", yellow flowers, long bloom	Dry soils, sunny areas	Variety; eastern tailed blue spring azure, pearl crescent, viceroy, red admiral	
Wild Geranium (Geranium Spring-Summer		1-2', perennial, Moist well-dra soils, partial sl			
Goat's Beard Spring-Summer		3-7', white flowers in branching cluster	Rich soils, light shade, shade tolerant	Variety; spring azure	
Goldenrod Summer- (Solidago) Fall		1-5' perennial, yellow flowers	Well drained soils, sunny areas	Sulphurs, whites, coppers, monarch, hairstreaks, viceroy, painted lady	
Stiff Goldenrod Summer- (Solidago rigida) Fall		3-4', yellow flowers, rigid and upright	Well drained soils, full sun	Monarch, viceroy	
Iron Weed (Vernonia noveboracensis) Summer- Fall		Up to 6', perennial, purple flowers	Various moist soils, full sun	Variety; tiger swallowtail, monarch, great spangled fritillary, silver-spotted skipper, spicebush swallowtail	
Helianthus Fall		5-10', perennial, large yellow flowers	Moist fertile soils	Variety; monarch, painted lady, checkerspots	
Impatiens capensis) Summer-		2-5', perennial, orange and yellow flowers	Moist soils, tolerates full sun to full shade	Best for hummingbirds, bound to attract variety of butterflies	
Lupinus perennis) Summer pin		2-6', perennial, pink to lavender flowers	Moist soils, open areas	Variety; painted lady, red admiral, monarch, silver- spotted skipper, swallowtails	
Vild Lupine Lupinus perennis)	Spring	8-24", perennial, blue pea flower	Dry acidic soils	Larvae	
Maximillian's unflower Summer-Helianthus Fall		3-7', perennial,	Drought tolerant, full sun	Variety; monarch, painted lady, checkerspots	

Hoary Mountain Mint (Pycnanthemum incanum)	Summer- Fall	1-3', perennial, light purple flowers	Dry soils, full sun	Variety; red admiral, eastern tailed blue, pearl crescent, spring azure, sulphurs, whites	
Ox-eye Sunflower (Heliopsis helianthoides)	Ox-eye Sunflower Heliopsis Summer 3-		Moist soils, full sun	Variety; atlantis fritillary, European skipper, early hairstreak	
PawPaw (Asiminia triloba)	Spring	Small broad- leafed tree	Moist soils, sun to light shade	Larvae, swallowtails	
Pearly Everlasting (Anaphalis margaritacea)	Summer	12-36", perennial, flat clusters of white flowers	Dry soils, sunny areas, drought tolerant	Small butterflies, painted lady	
Wild Blue Phlox (Phlox divaricata)*	Spring	10-20", perennial, blue to purple showy flowers	Fertile soils, well- drained, partial shade	Larvae, swallowtails, sulphurs, painted lady, viceroy	
Moss Phlox (<i>Phlox</i> subulata)	Spring	Creeping ground cover, pink flowers	Dry acidic soils, shady areas	Small butterflies	
Echinacea Summer- Fall pere		Up to 4' hardy perennial, purple flowers, heat tolerant	Rich, well drained soil sunny areas	Variety; tiger swallowtail, viceroy, great spangled fritillary, whites, hairstreaks, blues, skippers	
Royal Catchfly (Silene regia)*	Summer	3-4', perennial, red flowers	Sandy, dry soils, full sun	Best for hummingbirds, bound to attract variety of butterflies	
Spicebush (<i>Lindera</i> benzoin)	150000 I WILL HOWELS		Moist soils, sunny areas	Variety; spring azure, larvae	
Sweet White Violet (Viola blanda)	Spring	3-5", perennial, white flower	Moist, fertile areas, light shade	Larvae	
Common Blue Violet (Viola sororia)	Spring blue-white or		Moist soils, sunny or partial shady areas	Larvae	
March Blue Violet (Viola cucullata)	Spring	3-8", perennial, blue flowers, groundcover	Moist to wet soils, shade tolerant	Larvae	
Virginia Bluebell (Mertensia virginica)	Spring	1-2', purple	Rich soils, sunny nodding flowers to shady areas	Variety	
Yarrow (Achillea Summer- 12-24",		12-24", small white flowers	Dry soils, full sun	Variety; coppers, hairstreaks, skippers, sulphurs	

Plant Natives! Celebrate Diversity!

Beware of exotic species! Exotic plant species have found their way into many gardens, and although several species do have showy flowers, care should be taken to avoid planting exotic species because they can cause local extinction of native flora. Exotic plant species may also negatively interact with wildlife species. Below is a list of common exotic species to avoid. When in doubt, check with your local Extension service.

- Bush Honeysuckle (Lonicera species)
- Privet (Ligustrum vulgare)
- Asian Bittersweet (Celastrus orbiculatus)
- Canada Thistle (Cirsium arvense)
- Japanese Honeysuckle (Lonicera japonica)
- Queen Anne s Lace (Daucus carota)
- Dames Rocket (Hesperis matronalis)
- Day Lily (Hemerocallis fulva)
- Butterfly Bush (Buddleia davidii)
- Lantana (Lantana camara)

Butterfly species	Nectar Plants			
Spicebush		Larvae Plants		
Swallowtail	Milkweed, butterfly weed, purple coneflower, joepye weed	Spicebush, sassafras		
Eastern Black Swallowtail	Milkweed, butterfly weed, phlox	Parsley		
Eastern Tiger Swallowtail	Butterfly weed, bee balm, phlox, milkweed, blazing star	Black cherry, tulip tree, ash, spicebush		
Cabbage White	Mints, asters, bee balm	Cabbage, mustards		
Checkered White	Mustards	Cabbage, mustards		
Clouded Sulphur	Phlox, milkweed, goldenrod, asters, blazing star	Leguminous plants		
Orange Sulphur	nge Sulphur Yarrow, asters, mints, goldenrods			
Eastern Tailed Blue	Mints, yarrow, milkweed, wild geranium	Leguminous plants		
Spring Azure	ng Azure Mints, milkweed, spicebush			
Great Spangled Fritillary	Milkweed, purple coneflower, joe-pye weed, ironweed, black-eyed susan, bee balm	Violets		
Pearl Crescent	Black-eyed susan, milkweed, geranium, mints, asters	Asters		
Question Mark	Feeds on rotten fruits, milkweed	Elm, hackberry		
Comma	Feeds on rotten fruits	Nettles, elm		
Mourning Cloak	rning Cloak Milkweed, bee balm			
Red Admiral	Milkweed, mints, asters, phlox, coreopsis	Nettles		
ainted Lady	Joe-pye weed, blazing star, bee balm, goldenrod, phlox, asters	Pearly everlasting		

Red-spotted Purple	Feeds on rotten fruits	Black cherry, hawthorn		
Viceroy	Asters, joe-pye weed, goldenrod, phlox	Willow, poplars, black cherry		
Monarch	Milkweed, butterfly weed, joe-pye weed, goldenrod, asters, blazing star	Milkweed		
Silver-Spotted Skipper	Milkweed, blazing star, purple coneflower, joe-pye weed	Leguminous plants		

Additional Resources

Online Resources

• **Ohioline**—http://ohioline.osu.edu

Native Plant Bulletin—http://ohioline.osu.edu/b865/index.html

• Ohio Department of Natural Resources—http://www.dnr.state.oh.us/

Division of Natural Areas—http://www.dnr.state.oh.us/odnr/dnap

Division of Wildlife—http://www.dnr.state.oh.us/wildlife/resources/butterflies/index.html

Checklist of Ohio butterflies

Division of Forestry—http://www.hcs.ohio-state.edu/odnr/forestry.htm

Can purchase native trees and shrubs from the Division

• National Wildlife Federation—http://www.nwf.org

Provides helpful information on creating backyard wildlife habitat and provides certification

- North American Butterfly Association—http://www.naba.org/
- Monarch Watch—http://www.monarchwatch.org/
- National Audubon Society—http://www.audubon.org/
- The National Wildflower Research Center—http://www.wildflower.org/
- Birdsource—http://www.birdsource.org/

Books

Attracting Butterflies and Hummingbirds to Your Backyard \(\sigma A\) Rodale Organic Gardening Book by Sally Roth

Butterflies Through Binoculars \Box The East by Jeffrey Glassberg

Peterson Field Guide: Eastern Butterflies by Paul A. Opler and Vichai Malikul

Newcomb □s Wildflower Guide by Lawrence Newcomb

Go Native \square Gardening with native plants and wildflowers in the lower Midwest by Carolyn Harstad Butterfly Gardens: Luring nature \square s loveliest pollinators to your yard by Alcinda Lewis

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Keith L. Smith, Associate Vice President for Ag. Adm. and Director, OSU Extension.

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