Midwest Region







Showy goldenrod, field thistle, and swamp milkweed

In the Midwestern states of Iowa, Missouri, Illinois, and Indiana, a wealth of plant diversity grows in lush tallgrass prairies, as well as in oak savannas, windswept lakeshore dunes, shallow soils and rocky slopes of glades, and within deciduous forests.

The native plants of the Midwest support a diverse range of pollinators including thousands of species of native bees, butterflies, beetles, flies, wasps, and moths. The Midwest region is an important breeding area for the monarch butterfly (*Danaus plexippus*) and is also home to several imperiled species of bumble bees and butterflies, including the endangered rusty patched bumble bee (*Bombus affinis*). Pollinators in the Midwest maintain healthy, productive plant communities, provide food that sustains wildlife, and play an essential role in crop production.

Providing wildflower-rich habitat is the most significant action you can take to support pollinators. Adult bees, butterflies, and other pollinators require nectar as their primary food source. Female bees also collect pollen as food for their offspring. Native plants, which are adapted to local soils and climates, are usually the best sources of nectar and pollen for native pollinators. Incorporating native wildflowers, shrubs, and trees into any landscape promotes local biological diversity by providing shelter and food for wildlife. Native plants are better adapted to regional climate cycles, do not need fertilizers, and are less likely to become weedy.

This guide features plants native to the Midwest that are highly attractive to pollinators and are well-suited for small-scale plantings in gardens, on business and school campuses, in urban greenspaces, and in farm field borders. In addition to supporting native bees and honey bees, many of these plants attract nectar-seeking butterflies, moths, and hummingbirds, and some are host plants for butterfly and moth caterpillars. Most of these species can be purchased as seed or transplants, and are adaptable to growing conditions found across the Midwest. Please consult regional Floras, the Biota of North America's North American Plant Atlas (http://bonap.net/napa), or the USDA's PLANTS database (http://plants.usda.gov) for details on species's distributions in your area.

Our **Bring Back the Pollinators** campaign is based on four principles:

- 1. Grow a variety of pollinator-friendly flowers;
- 2. Protect and provide bee nest sites and caterpillar host plants;
- 3. Avoid using pesticides, especially insecticides: and
- 4. Spread the word!

You can participate by taking the **Pollinator Protection Pledge** and registering your habitat on our nationwide map at:

www.bringbackthepollinators.org.





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Bloom Period	Common Name	Scientific Name	Flower Color	Max. Height*	Water Needs	Notes This list of pollinator plants for the Midwest Region was produced by the Xerces® Society. For more information about pollinator conservation, please visit www.xerces.org . This list of pollinator plants for the Midwest Region was produced by the Xerces® Society. For more information about pollinator conservation, please visit www.xerces.org . This list of pollinator plants for the Midwest Region was produced by the Xerces® Society. For more information about pollinator conservation, please visit www.xerces.org .
	Forbs			(Feet)	L: low; M: medium; H: high	All species are perennials, unless otherwise noted. *Max. Height is an average, individual plants may vary. HP = host plant (caterpillar)
1	Cream wild indigo	Baptisia bracteata	cream	2	L	Visited by queen bumble bees (Bombus spp.) and other long-tongued bees; HP: numerous butterflies and skippers
Early 2	Golden Alexanders	Zizia aurea	yellow	3	Н	Tolerates some shade; attracts bees and beneficial insects; HP: black swallowtails (Papilio polyxenes)
3	Wild geranium	Geranium maculatum	pink	1	M	Prefers partial but tolerates full sun; attracts mining (Andrena spp.), mason (Osmia spp.), digger, and bumble bees; HP: several moths
Early–Mid 4	Smooth penstemon	Penstemon digitalis	white	2	M	Grows in a variety of soils; visited by butterflies, moths, and bees, including honey bees
5 6 Mid 7 8	Narrowleaf mountain mint	Pycnanthemum tenuifolium	white	2.5	M	Fragrant foliage; visited by blue and copper butterflies, many bees (including honey bees), flies, beetles, and other beneficials
	Pale purple coneflower	Echinacea pallida	purple	3	L	Withstands drought well; attractive to a wide range of pollinators, and a key nectar source for skippers
	Purple prairie clover	Dalea purpurea	purple	2	L	Legume (contributes nitrogen to the soil); very attractive to many bees, as well as butterflies, flies, and beetles
	Swamp milkweed	Asclepias incarnata	pink	5	M-H	Milkweeds (Asclepias spp.) are host plants for the monarch butterfly (Danaus plexippus); great nectar sources for bees and beneficials
9	Wild bergamot	Monarda fistulosa	purple	4	M	Hawk moths, hummingbirds, and long-tongued bees (such as bumble bees) are common visitors
10 11 12 Mid-Late 13 14	Culver's root	Veronicastrum virginicum	white	5	M	Does well in average to wet soil; flowering stalks may need support in gardens
	Field thistle	Cirsium discolor	purple	6	M	Distinct from invasive, non-native thistles; very important for butterflies and bumble bees; grows as a perennial or biennial
	Missouri ironweed	Vernonia missurica	purple	5	M	Grows under a variety of conditions; ironweed species (Vernonia spp.) attract late summer butterflies and bees
	Prairie blazing star	Liatris pycnostachya	purple	5	M	Blazing stars (<i>Liatris</i> spp.) support bees as well as many butterflies including monarchs, swallowtails, skippers, and sulfurs
	Rattlesnake master	Eryngium yuccifolium	white	6	M	Attracts incredible insect diversity and is the host plant for the rattlesnake master borer moth (Papaipema eryngii)
	Yellow giant hyssop	Agastache nepetoides	yellow	6	М-Н	Flowers may appear green from a distance; attractive to bees (including honey bees), butterflies, and some beneficial insects
16 17 Late 18 19	Gray goldenrod	Solidago nemoralis	yellow	2	L	Blooms later than most goldenrods; in addition to attracting pollinators, goldenrods are host plants for numerous moth species
	Showy goldenrod	Solidago speciosa	yellow	5	M	Goldenrods (Solidago spp.) are frequented by beneficial solitary wasps, pollen-eating soldier beetles, honey bees, and much more
	Smooth blue aster	Symphyotrichum laeve	blue	4	L	Grows in a variety of soils; visited by butterflies, moths, bees, beneficial wasps, and flies; HP: many moths species
	Wingstem	Verbesina alternifolia	yellow	6	M	Shade-tolerant, grows well in rain gardens; attracts butterflies and bees (great for honey bees); possibly limited in nurseries
	Shrubs and Trees					
20 Early 21 22	Cockspur hawthorn	Crataegus crus-galli	white	35	L	Adapts well to many growing conditions; supports a variety of bees; attracts songbirds; HP: over 25 species of moths
	Ninebark	Physocarpus opulifolius	white	8	M	Tolerates some shade and a variety of soil conditions; attracts bees, butterflies, beneficial wasps, and flies
	Prairie willow	Salix humilis	white/ green	8	L	Important for spring pollinators; pollen-producing and nectar-producing flowers found on separate shrubs; supports songbirds
23 Mid 24	Buttonbush	Cephalanthus occidentalis	white	12	Н	Prefers moist soil, great for rain gardens; attracts bees, butterflies, and skippers; HP: several moths
	Lead plant	Amorpha canescens	purple	3	L	Tolerates a variety of soil types (prefers drier soils and full sun); attracts leafcutter bees (Megachile spp.), honey bees, and other insects
1:	14	15	16	17	18	22 23 24

Planting for Success

Sun Exposure

Most pollinator-friendly plants prefer sites that receive full sun throughout most of the day and are mostly open, with few large trees. A southern exposure can provide the warmest habitat, but is not required.

Plant Diversity

Choosing a variety of plants with overlapping and sequential bloom periods will provide food for pollinators throughout the seasons.

Habitat Size and Shape

Habitat patches that are bigger and closer to other patches are generally better than those that are smaller and more isolated from one another. However, even a small container garden can attract and support pollinators!

Planting Layout

Flowers clustered into clumps of one species will attract more pollinators than individual plants scattered through a habitat patch. Where space allows, plant clumps of the same species within a few feet of one another.

Seeds or Transplants

It is usually cheaper to establish large habitat areas from seed; however, seeding native wildflowers on a large-scale is an art unto itself. For step-by-step instructions, see *Establishing Pollinator Meadows from Seed* and the Pollinator Habitat Installation Guides listed in the Additional Resources section. For smaller areas like gardens, transplants are usually easier to use and will bloom faster than plants started from seed.

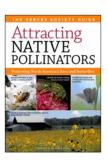
Protect Pollinators from Insecticides

Although dependent on timing, rate, and method of application, all insecticides have the potential to poison or kill pollinators. Systemic insecticides in particular have received significant attention for their potential role in pollinator declines (imidacloprid, dinotefuran, clothianidin, and thiamethoxam are examples of systemic insecticides now found in various farm and garden products). Because plants absorb systemic insecticides as they grow, the chemicals become distributed throughout plant tissues and are sometimes present in pollen and nectar. You can help protect pollinators by avoiding the use of these and other insecticides. Before purchasing plants from nurseries and garden centers, be sure to ask whether they have been treated with insecticides. To read more about threats to pollinators from pesticides, please visit: www.xerces.org/pesticides.

Additional Resources

Attracting Native Pollinators

Our best-selling book highlights the role of native pollinators in natural ecosystems, gardens, and farms. This comprehensive guide includes information about pollinator ecology, detailed profiles of over 30 common bee genera, and habitat designs for multiple landscapes with over 50 pages of fully illustrated regional plant lists. Available in bookstores everywhere, and through www.xerces.org/books.



The Xerces Pollinator Conservation Resource Center

Our Pollinator Conservation Resource Center includes regional information on pollinator plants, habitat conservation guides, nest management instructions, bee identification and monitoring resources, and directories of native pollinator plant nurseries.

 $\underline{www.xerces.org/pollinator-resource-center}$

Lady Bird Johnson Wildflower Center

The Xerces Society has collaborated with the Lady Bird Johnson Wildflower Center to create lists of plants that are attractive to native bees, bumble bees, honey bees, and other beneficial insects, as well as plant lists with value as nesting materials for native bees. These lists can be narrowed down with additional criteria such as state, soil moisture, bloom time, and sunlight requirements. The Center's website also features image galleries, how-to articles on native plant gardening, and more.

www.wildflower.org/conservation_pollinators

Establishing Pollinator Meadows from Seed

These guidelines provide step-by-step instructions for establishing pollinator meadows from seed in areas that range in size from a small backyard garden up to an acre. Topics include: site selection, site preparation, plant selection, planting techniques, and ongoing management.

www.xerces.org/establishing-pollinator-meadows-from-seed

Pollinator Habitat Installation Guides

These regional guidelines, developed in collaboration with the USDA's Natural Resources Conservation Service, provide in-depth practical guidance on how to install nectar and pollen habitat for bees in the form of wildflower meadow plantings or linear rows of native flowering shrubs. Region-specific seed mixes and plant recommendations are included in the appendices of each guide. www.xerces.org/pollinator-habitat-installation-guides

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