

CHECKLIST OF ACTIONS

To Promote Pollinators In Yards, Gardens & Parks

KEY:

₩ Promotes foraging resources

Helps protect pollinators from pesticide exposure

1/2	Promotes nesting and	loverwintering	habitat

Contributes to pollinator conservation in your community

LANDSCAPING

	₩ 1/4	Plant a native wildflower garden that includes species that bloom in succession	a all season long and are high-value to pollinators (species with 🚖 on Table 1, page 12).
	88 V	Plant native bunchgrasses; these plants are food for rare butterflies and also h	nelp provide nesting sites for bees.
\Box	8€	Reduce lawn footprint by converting as much as possible to <i>flowering</i> habitat.	
$\overline{\Box}$	8€	Plant <i>spring</i> -blooming native wildflowers, such as woodland ephemerals in s.	hady areas.
Ĭ	₩	Plant spring -blooming native shrubs and trees, such as willows (<i>Salix</i>), maple	•
$\overline{\Box}$	8	Plant summer -blooming native wildflowers, such as blazing star (<i>Liatris</i>), bee	
\exists	886	Plant summer - or fall -blooming native shrubs, such as wild roses (<i>Rosa</i>) or m	
H	***	Plant <i>fall</i> -blooming native wildflowers, such as asters (<i>Symphyotrichum</i>),	(op now).
	40	native sunflowers (<i>Helianthus</i>), and goldenrods (<i>Solidago</i>).	
\Box	%	Plant native trees that serve as important host plants for a wide variety	
	40	of butterflies and moths (species with L on Table 1 , page 12).	Why Plant Native?
\Box	8 8€	Plant native milkweed (<i>Asclepias</i>), violets (<i>Viola</i>), pawpaws (<i>Asimina</i>),	willy rialit Native:
	400	or other regionally appropriate plants that provide critical food for	Native plants have a very long history of naturally occurring in the wild
		specialist butterflies and moths.	ecosystems of a given area (pre-European settlement of the Americas).
\Box	8 8€	Plant species known to provide food for specialist bees in your region	Non-native plants naturally occur in other parts of the world or the
	405	(species with on Table 1, page 12).	country, but may be grow well in your area as ornamental or garden
\Box	8 €	Gradually replace perennial and annual landscaping that provides	plants. Some non-native plants have the tendency to escape into the
	υp	little value to wildlife (e.g., daylilies, hostas, pansies) with more diverse	wild and become invasive, replacing natives plants and causing serious
		native wildflower plantings.	ecological and economic problems. Although pollinators may find
\Box	%	If non-native plants are included in landscaping, choose varieties that	some nutritional value from non-native plants, native plants do the
	υp	are known to have value to pollinators (e.g., flowers with ample pollen	best job of supporting the widest array of native pollinators, given their
		or nectar) AND that are not invasive or aggressive.	long co-evolutionary history. In fact, roughly 1/3 of bee species will only
\Box	8 €	Remove invasive species from your landscape, as well as any non-native	collect pollen from particular native plants, and most butterfly and
	τφ	species that appear to be spreading into wild areas (e.g., butterfly-bush).	moth caterpillars can only feed on particular native plant leaves.
\Box	ăi.	Ensure that new landscaping plants were not treated with neonicotinoids	moun caterplinars can only reed on particular native plant leaves.

Why Plant Native?

or other related insecticides.

A۱	VN & YA	ARD CARE
] * * * * *	Avoid pesticides (including herbicides, insecticides, and fungicides) on lawns and other landscaping; choose less harmful alternatives such as non-chemical controls. For mowed areas, reduce mowing frequency and increase mowing height, allowing flowering weeds to flourish. Leave dead wood on site, including dead logs, snags, and brush; consider planting flowers around these features, to add intention and aesthetic value. Leave leaf litter on-site—keep a thin layer of leaves on lawn; use the rest to mulch trees/ shrubs/ garden and/or rake to woodland edges if available. Leave bare spots or areas with patchy vegetation in lawn; avoid thick turf and sod. Avoid plastic mulch/ weed barrier, heavy wood chips, and treated wood chips. Leave dead wildflower stems standing over the winter; prune them back in early spring to 8–12" to create nesting sites for stem-nesting bees. Prune shrubs with pithy stems, to create nesting sites for stem-nesting bees. Leave some areas of lawn unmown to create tall grass habitat. Install a water feature (e.g., bird bath with stones to prevent insects from drowning) for pollinators that need water for nest building or other uses. Seed a "bee lawn" (incorporate clovers & other flowers into new or existing lawn).
RU	JIT & VI	EGETABLE GARDENS
		Plant fruit trees and fruit-bearing shrubs, including native species when possible (e.g., blueberries [<i>Vaccinium</i>], currants and gooseberries [<i>Ribes</i>], elderberries [<i>Sambucus</i>], chokeberries [<i>Aronia</i>]—species with \P on Table 2 , page 12).
Ļ] 1 √ ∰	Plant native raspberries/ blackberries (<i>Rubus</i>); prune in <i>early spring</i> to create nest sites for stem-nesting bees.
Ļ	%	For more continuous fruit and flowers, plant ever-bearing varieties of strawberries (<i>Fragaria</i>), raspberries, and other fruits.
L	} ₩	Plant a tea or herb garden and allow plants like basil (Ocimum), mint (Mentha), and lavender (Lavendula) to flower; most herbs do very well in containers if space
		is limited (see Table 2, page 12).
	₩	Plant bee-pollinated vegetables like squash (Cucurbita) and tomatoes (Solanum) and allow pollinator-attractive culinary garden plants—such as lettuce (Lactuca)

CC

DM	MU	INI	TY ACTION
	9	₩	Organize a neighborhood native plant or seed exchange (<u>never</u> share non-native plants that are aggressive / potentially invasive).
	9	₩	Create habitat in community hubs (e.g., libraries, post-offices, schools, or senior centers) or in unused spaces like sidewalk medians.
	9	₩	Volunteer with a local park to improve habitat (e.g., removing invasive species or collecting wildflower seeds).
	2	_	Provide signage to explain your pollinator conservation actions to your neighbors.
	Ž	_	Host a tour of your pollinator friendly yard or garden.
	2	_	Talk about pollinators and their habitat needs to your neighbors, friends, family, local businesses, schools, library, church, etc.
	2	_	Talk to your city officials or local colleges about signing a bee friendly resolution and/or getting certified as a Bee City USA or Bee Campus USA.
		L	Participate in a community science project, such as bumble bee or monarch monitoring (see <i>Resources</i> , page 11).

chemical pest control methods (e.g., hand-picking or insectary plantings to promote beneficial insects for natural pest control).

and mustard (Brassica)—to bolt in order to provide additional floral resources (see Table 2, page 12).

Avoid pesticide use on fruit and vegetable crops; manage pests by using prevention strategies (e.g., crop rotation or selection of resistant varieties) and non-

Xerces Society Recommended High Value Plants for Pollinators

- ★ POLLINATOR "SUPERFOODS"—Certain native plants are known to provide exceptional forage for a wide variety of bees and other pollinators, including monarchs. See table below for a list of some of these plants.
- **FOOD FOR SPECIALIST BEES**—Many native bees are "specialists," only collecting pollen and other resorces from specific plants. See table below for a list of plants known to provide food for a number of specialist bees.
- LEPIDOPTERA HOST PLANTS—The caterpillars of many butterflies and moths can only feed on specific plants. For example, great spangled fritillary larvae only feed on violet leaves. Some plants support an amazing diversity of lepidoptera; e.g., oaks support hundreds of butterflies and moths species. Since most native plants support at least one butterfly or moth, we use for a genus supports over five species OR one species that doesn't eat anything else.

NOTE: These lists are not exhaustive—see Resource section to identify additional native plants for your site. Some of these plants may not be appropriate for every region/site.

	TABLE 1: SUPERFOODS & HOST PLANTS	
	HIGH VALUE PLANTS Appropriate for <i>Most</i> Regions	
Agastache [giant hyssop]— Asclepias [milkweed]— Cirsium [thistle (native)]— Echinacea [purple coneflower]— Euthamia [goldentop]—	 → Helianthus [sunflower]—★ → Lupinus [lupine]— → Monarda/Monardella [beebalm]— → Penstemon [beardtongue]— → Ratibida [coneflower]— 	 Salvia [sage]— Solidago [goldenrod]— Symphyotrichum [aster]— Verbena [vervain]— Viola [violets]—
Acer [maple]— Amelanchier [serviceberry]— Amorpha [leadplant/false indigo]— Ceanothus [wild lilac]— Cercis [redbud]— Cornus [dogwood]—	Pinus [pine]— Prunus [wild plum]— Quercus [oak]— Rhus [sumac]— Ribes [currant]— Rosa [wild rose]—	 Rubus [raspberry/blackberry]—★ Salix [willow]—★ Sambucus [elderberry]— Spiraea [spirea/meadowsweet]—★ Vaccinium [blueberry/cranberry]—★ Viburnum [arrowwood/viburnum]—★
Andropogon [bluestem]— Bouteloua [grama]— Carex [sedges]—	W Elymus [wheatgrass, wildrye]— W Hierochloe [sweetgrass] W Koeleria [Junegrass]—	 ₩ Muhlenbergia [muhly]— ★ Schizachyrium [little bluestem]— ★ Sporobolus [dropseed]—
	HIGH VALUE PLANTS for Specific Regions	
Pacific Northwest	Great Plains & Intermountain West	Great Lakes & Northeast
## Baccharis [coyotebrush]— ## Berberis [barberry]— ## Clarkia [clarkia]— ## Cleome [bee plant]— ## Fragaria [strawberry]— ## Grindelia [gumweed]— ## Helenium [sneezeweed]— ## Phacelia [phacelia]— ## Rhamnus [buckthorn]— ## Sidalcea [checkerbloom]— ## S	Callirhoe [poppymallow]— Dalea [prairie clover]— Ericameria [goldenbush, rabbitbrush]— Eriogonum [wild buckwheat]— Geranium [wild geranium]— Heterotheca [false goldenaster]— Machaeranthera [tansyaster]— Oenothera [evening primrose]— Sphaeralcea [globemallow]— Vernonia [ironweed] —	Cephalanthus [buttonbush]—★ Dalea [prairie clover]—★ Eutrochium [joe pye weed]—★ Ilex [holly]—★ Liatris [blazing star]—★ Packera [ragwort]—★ Pycnanthemum [mountain mint]—★ Silphium [cup plant]—★ Zizia [Alexanders, zizia]—★ Carya [hickory]—★
Southwest & California	Midwest & South Central	Southeast & Mid-Atlantic
Arctostaphylos [manzanita]— Baccharis [coyotebrush]— Berberis [barberry]— Bidens [beggarticks]— Eriogonum [wild buckwheat]— Grindelia [gumweed]— Larrea [creosote bush]— Monardella [monardella]— Phacelia [phacelia]— Salvia [sage]—	Boltonia [doll's daisy/false aster]— Chamaecrista [partridge pea]— Liatris [blazing star]— Pycnanthemum [mountain mint]— Silphium [cup plant]— Verbesina [wingstem]— Zizia [Alexanders, zizia]—	Baptisia [wild indigo]— Coreopsis [tickseed]— Desmodium [tick-trefoil]— Eutrochium [joe pye weed]— Gaillardia [blanketflower]— Helenium [sneezeweed]— Hibiscus [rosemallow]— Ilex [holly]— Liatris [blazing star]— Vernonia [ironweed]—
GROWTH	H FORMS: Wildflower/Forb (�) Shrub/Tree (♥) Grass/S	Sedge (幽)

Abelmoschus esculentus [okra]	Cucumis [cucumber, melon]	Origanum vulgare* [oregano]
Allium*† [chives, garlic, leek, onions, shallot]	Cucurbita [†] [pumpkin, squash]	Passiflora† [passionfruit]
Amelanchier [†] [juneberry, serviceberry]	Diospyros virginiana [†] [common persimmon]	Persea americana [avocado]
Asimina [†] [pawpaws]	Fagopyrum esculentum* [buckwheat]	Phaseolus [†] [bean (common, scarlet runner, wild
Anethum graveolens* [dill]	Foeniculum vulgare* [fennel]	Prunus [†] [almond, apricot, cherry, peach, plum]
Brassica* [broccoli, cabbage, cauliflower, kale]	Fragaria [†] [strawberry]	Pyrus [pear]
Calendula [calendula]	Helianthus annuus [†] [sunflower]	Ribes [†] [currant (black, golden, red)]
Capsicum [†] [peppers (bell/chili, habanero)]	Lavandula [lavender]	Rosa [†] [rose (dogrose, hybrid tea, wild)]
Castanea [†] [chestnut, chinquapin]	Malus [†] [apple, crab apple]	• Rubus [†] [blackberry, raspberry]
Citrullus [pine melon, watermelon]	Matricaria* [chamomile]	Sambucus [†] [elderberry (black, blue, red)]
Citrus [lemon, lime, tangerine]	Mentha*† [mint]	Solanum [†] [eggplant, potato, tomato]
Coriandrum sativum* [coriander/cilantro]	Ocimum* [basil]	Vaccinium [†] [blueberry, cranberry]
Corylus [†] [hazelnut]	Opuntia [†] [prickly pear]	Vicia† [fava bean, vetch]