



Creating Sustainable School and Home Gardens: **Welcoming Pollinators**

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Insects play a very important role in your garden as pollinators, prey for beneficial wildlife, predators controlling insect pests, and as soil nutrient recyclers. Follow the best gardening practices below to promote insect conservation and create healthy, sustainable environments for both people and diverse animals to enjoy.

Insects play a special role in gardens as pollinators, prey, predators, and recyclers.

Provide a Safe and Effective Habitat

- **Offer food** (nectar and pollen) all year. Pollinators need pollen and nectar plants in **all** seasons.
- **Protect habitat** for nesting and overwintering. Create structurally diverse gardens. Grow a variety of trees, shrubs, grasses, perennial and annual flowers. Plant in clumps. Leave leaf litter over winter. Don't clip off old flower stalks—leave them until spring. Avoid using ground barriers; many pollinators nest in the ground. Provide native solitary bee homes.
- **Avoid pesticides**, including organic ones. Insecticides kill **all** insects—even the good guys!

Recommended Plantings

- **Hardy annuals:** Bachelor button, California poppy, and foxglove.
- **Summer annuals:** Cosmos, sunflower, zinnia, and African blue basil.
- **Perennials:** Black-eyed Susan, bee balm, Joe Pye weed, butterfly weed, coreopsis, goldenrod, wild blue indigo, milkweed, mistflower, purple coneflower, Shasta daisy, white clover, prairie clover, sneezeweed, lavender, goldenrod, sedum, and salvia.
- **Trees and shrubs:** Russian sage, redbud, flowering dogwood, maple (flower early), holly (Nellie Stevens or Burford), azalea, viburnum, cherry laurel, butterfly bush, beauty berry, blueberry, and blackberry.
- **Herbs and vegetables** (beneficial to pollinators and delicious in your own food): Sage, rosemary, parsley, fennel, basil, thyme, African blue basil, mint, oregano, lemon balm, and squash.



Bee on a Sunflower



Butterfly and Bee on an Allium Bloom

Key Considerations for Your Garden

Continuous Blooms

Choose long-lasting flowers that bloom throughout the season or various flowers that offer blooms at different times.

Flower Diversity

Choose flowers with different colors, shapes, sizes, and bloom times to cater to diverse insect pollinator preferences. Avoid double blooms since they block access for pollinators.

Native Plants

Native plants are adapted to the environment and the local pollinator community. Ornamental non-native plants can also be excellent pollinator plants, but be selective and consider native plants first. Also, beware of “nativars” (cultivars of native plants); they may not offer the same resources as the original.

Climate and Soil Type

Select plants suitable for your environment to avoid unnecessary inputs, labor, and replacement costs. Links to regional pollinator plant lists are available in the Resources section.

Enjoy and Share Your Garden

- **Collect seeds** from flowers and save them in a cool, dark, and dry place to plant the next year and share them with others.
- **Document visitors-** What pollinators and other insects did you see visiting your garden?

- **Share your garden** observations through a citizen science program or website, such as:
 - [iNaturalist](https://www.inaturalist.org) (inaturalist.org).
 - [Project Budburst](https://www.budburst.org) (budburst.org).
 - [The Great Sunflower Project](https://www.greatsunflower.org) (greatsunflower.org).
 - [Bumble Bee Watch](https://www.bumblebeewatch.org) (bumblebeewatch.org).
 - [Utah Pollinator Habitat Program](https://ag.utah.gov/pollinator-habitat-program/) (ag.utah.gov/pollinator-habitat-program/).

Resources

- [Xerces Society](https://www.xerces.org) (xerces.org) is a conservation organization for all insects, especially pollinators.
 - [Pollinator friendly plant lists](#) (regional lists).
 - [Pollinator resource center](#) (regional lists).
- [Lady Bird Johnson Wildflower Center](https://www.wilflower.org) (wilflower.org).
 - [Native plant lists](#).
 - [Plants of special value for bees](#).
 - [Plants providing nesting material for bees](#).
- [Utah State University \(USU\) Extension](https://extension.usu.edu) (extension.usu.edu).
 - [Gardening for bees in Utah](#).
 - [Bees and other Pollinators resources](#).
- [U.S. Department of Agriculture \(USDA\) – Natural Resources Conservation Service \(NRCS\)](https://www.nrcs.usda.gov) (nrcs.usda.gov).
 - [Plants for pollinators in the Intermountain West](#).

Acknowledgments

[Smart Foodscapes](https://usu.edu/smart-foodscapes) (usu.edu/smart-foodscapes)
Learn more by scanning the QR code.



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