

# **Attracting Beneficial Insects**

Bees have been making headlines, and not in a good way. All across the country, honeybees are abruptly and mystifyingly disappearing—a phenomenon known as *colony collapse disorder*. The positive upshot of this unexplained decline of the honeybee is a general uplifting of consciousness about the value of pollinators of all kinds and an awareness of the things gardeners can do that will help sustain their populations. Growing a bee-friendly garden has become a garden goal for many.

This burgeoning pollinator awareness has also propelled native bees onto the "most-wanted list" of beneficial insects that provide pollination services or/and free pest control in the garden. Common predatory beneficials include beetles, lacewings, syrphid and tachinid flies, and parasitic and predatory wasps, among others. These predatory "good guys" and pollinators like bees have similar needs: nectar, pollen, water, shelter from the wind. Planting flowers and herbs from seed will fill those needs easily and efficiently.

And an extra bonus comes from providing nectar and pollen for beneficial insects—success is a beautiful sight!

### **General Rules for Bringing In the Right Bugs**

Yes, you can purchase mail-order bags of lady beetles and lacewing eggs and release them into your garden. The difficulty lies in keeping them there. Better to expend your energy to create a habitat that will

attract a diverse population of sustain them from their larval The best and simplest strategy is bloom from spring through fall. been done on the types of effective in attracting the right short list of general rules can intelligent choices intuitively:

> 1. Tiny clusters of flowers nectaries (think Queen insects.

attract a wide variety of

2. Many insects prefer

single row of petals over those that have two or more rows.

## Top annual flowers and herbs for attracting beneficial insects:

**Dill:** lady beetles, syrphid flies, predatory and parasitic wasps

Cilantro: lady beetles, syrphid flies,

parasitic wasps Sweet alyssum: syrphid flies

Sunflowers: bees and predatory wasps

Buckwheat: syrphid flies, lady beetles

desirable insects and stage to adulthood. to have flowers in Much research has flowers that are *most* kinds of insects, but a help gardeners make

> with exposed Anne's Lace) beneficial

flowers with a

- 3. Flowers of diverse colors and forms will attract a diverse population of pollinators.
- 4. Tall groupings of plants provide insects with shelter from drying winds.
- 5. Culinary herbs such as thyme, oregano, cilantro, and dill are attractive to many pollinators and predaceous insects when allowed to flower.
- 6. Insect predators require prey—lady beetles will not stick around if there are no aphids. Accept a few pest insects as a necessary part of keeping things in balance.

### Mind the Gaps

A gap in your garden's nectar and pollen supply will send beneficial insects flying to your neighbor's yard. Don't let that happen! It's not difficult to have plants in bloom throughout the growing season if you think about planting successive patches of fast-growing flowering plants. Good candidates for succession planting are sunflowers, herbs such as arugula, cilantro, and dill, and vegetables such as gourds and squash. In a pinch, plant patches of annual buckwheat every few weeks. Not only do the tall, fast-growing plants provide beneficial insects with shelter in bad weather, they go from seed to bloom in little more than a month.

### Easy From Seed: Early, Mid-season, and Late Blooming Plants that Attract Beneficial Insects

#### Early

Arugula (*Eruca sativa*)
Basket-of-Gold (*Aurinia saxatilis*)
California Poppy (*Eschscholzia californica*)

Candytuft (Iberis sempervirens)

Chamomile (*Matricaria recutita*)
Columbine (*Aquilegia* spp.)
Lovage (*Levisticum officinale*)
Sage (*Salvia officinalis*)

Sweet Alyssum (*Lobularia maritima*)

#### Mid-Season

Arugula (Eruca sativa)
Asclepias (Asclepias curassavica)
Baby's Breath (Gypsophila muralis)
Basil (Ocimum basilicum)
Bishops Lace (Ammi majus)
Borage (Borago officinalis)
Buckwheat (Eriogonum annuum)
Calendula (Calendula officinalis)
Cilantro (Coriandrum sativum)
Clary Sage (Salvia horminum)
Cosmos (Cosmos sulphureus, C. bipinnatus)

Late

Arugula (*Eruca sativa*)
Cilantro (*Coriandrum sativum*)
Cosmos (*Cosmos sulphureus*, *C. bipinnatus*)

Fennel (Foeniculum vulgare)
Feverfew (Chrysanthemum
parthenium)
Marigold (Tagetes tenuisecta)
Mustards (Brassica juncaea)
Nasturtium (Tropaeolum majus)
Oregano (Origanum spp.)
Squash (Cucurbita spp.)
Sunflower (Helianthus annuus)
Tithonia (Tithonia rotundifolia)
Tomatillo (Physalis philadelphica)

Dill (*Anethum graveolens*)

Dill (Anethum graveolens)
Gourds (Cucurbita pepo)
Squash (Cucurbita spp.)
Sunflower (Helianthus annuus)

### Your Garden Ally - the Flower Fly

Syrphid flies, a.k.a. hoverflies or flower flies, have been the focus of much vegetable farming research, for good reason. Strong fliers with the ability to hover above plants, they are ideally suited for finding and destroying aphid colonies. Adults, which resemble bees and wasps, lay their eggs singly on leaves near aphid colonies. Maggot-shaped syrphid larvae hatch in about 3 days, and consume hundreds of aphids each.

Adult flower flies need nectar and pollen in order to reproduce; larvae require aphids to develop into adults. So if you grow bok choi, lettuce, roses, peas, or any of the many other plant species that host aphids, be sure to sow seeds of sweet alyssum, buckwheat, and carrot family plants such as dill and cilantro, to supply nectar and pollen for this helpful predator.

#### Captions:

- 1. A researcher at UC Davis observed 32 different native bee species pollinating sunflowers.
- 2. Asclepias is a host plant for the oleander aphid, which in turn provides food for syrphid fly, lacewing, and lady beetle larvae, as well as parasitic wasps.
- 3. Sweet Alyssum is highly attractive to syrphid flies.
- 4. Sow dill and cilantro every 3 to 4 weeks for a continuous supply of nectar and pollen.