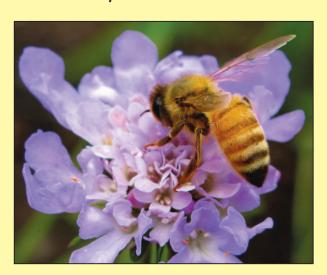
Creating a Bee-Friendly

Garden

Bees play an important role as pollinators, working on both wild plants and food crops. Growing plants that appeal to bees provides them with the pollen and nectar they need to survive.



Pollinators, such as bees contribute significantly to the production of fruit, vegetables and other foods that we enjoy.

Seven Ways to Help Bees in Your Home Garden:

Many practices that help bees also help to keep your garden looking its best!

• Plan for Continuous Bloom:

This provides colourful flowers throughout the growing season, as well as a steady supply of food for bees. Trees and shrubs can also provide valuable food for bees when garden flowers are not in bloom.

• Mass Plants:

Placing several of the same species in a group helps to attract bees. Massing makes plants easier to find so that bees use less energy to collect pollen or nectar. Remember to allow each plant enough space to grow, and keep a variety of plants in your garden.

Avoid Pesticides:

Bees are sensitive to pesticides, so avoid them if possible. Plants along roadsides, in vacant areas, and in the garden all benefit bees. If weeds are an issue, try to remove them without spraying.





Maple flowers (left) bloom early in the season and are an important food source for bees. Lavendar (right) is both colourful and fragrant - an asset for people and bees alike.

Choose Single Blooms:

Double bloom flowers are stunning, but they are not easily accessed by bees. Planting flowers with a single bloom provides nectar and pollen that bees can gather.

Use Colourful Plants with Scent:

Bees rely on the colours and scents of flowers to find food. Purple, yellow, white and blue flowers are easy for bees to see in the garden. Fragrant flowers are also irresistible to bees!

Dead-Head and Prune:

Removing spent flowers helps promote longer blooming. This means more colour for you, and more food for bees! Pruning plants to promote bloom will ensure plant health and bee food supplies each year.



Bees can see Ultra
Violet. For example, a
flower that looks yellow
to us may appear purple
to bees. Plants with
combinations of colours,
are easier for bees to find.





Unlike double blooms (left), single blooms (right) are easy for bees to access.

• Water and Fertilize Adequately:

Watering plants properly promotes nectar production. This means more food for bees and other pollinators. Too much fertilizer decreases nectar production in most plants. Try to use slow-release (chelated) fertilizers or natural alternatives such as compost. Be sure to use all fertilizers as instructed.

Sources: Plants for Beekeeping in Canada, Jane Ramsay. Nectar Trees, Shrubs and Herbs of Ontario, C. Larsson and R. Shuel





Helleborus (left) flowers early in spring, while Flax (right) blooms in late summer to early fall. Hawthorn (below) is an important shrub for bees.



While visiting flowers, bees are not defensive unless disturbed. Helping bees has positive effects on food production and the environment! Purchasing locally produced honey supports pollination in your community.

Produced by the

UNIVERSITY • GUELPH

Honey Bee Research Centre

308 Stone Road East, Guelph, Ontario www. uoguelph.ca/honeybee





Cosmos are a food source for bees during summer.

Annuals that Attract Bees:

Name: Alyssum Aster Calliopsis Cosmos

Dahlia (single) Marigold (single) Poppy (single) Sunflower

Scientific Name:

Agastache foeniculum

Monarda punctata

Dictamnus albus

Helleborus niger

Heuchera sanguinea

Myosotis scorpioides

Hyssopus officinalis

Solidago canadensis

Muscari botryides

Centaurea montana

Aubrieta deltoidea

Thymus serpyllum

Crocus spp.

Linum spp.

Oenothera spp.

Gladiolus spp.

Alcea rosea

Salvia spp.

Sedum spp.

Galanthus spp.

Coreopsis spp.

Geranium spp.

Chelone spp.

Aruncus dioicus

Bloom Time:

June-frost *

August-October * late spring-summer * June-late August *

summer * late spring-fall * summer * summer-fall *

Height: 15cm/5-6" 30-90cm/1-3° 60-120cm/24-48" 60-120cm/24-48" 30-180cm/12-72" 20-60cm/8-24" to 90cm/36"

3m/10'

Height: 60-90cm/23-35"

90cm/30"

60-90cm/24-36"

25-30cm/10-12"

10-60cm/4-24"

8-12cm/3-5"

to 150cm/60"

15-20cm/6-8"

18-60cm/7-20"

60-180cm/24-72"

91-122cm/36-48"

60-100cm/24-36"

150-250cm/60-96"

45-60cm/18-24"

60-90cm/24-36"

12-30cm/5-12"

8-15cm/3-5"

12-15cm/5-6"

31-91cm/12-36"

45-150cm/12-60"

Perennials Visited by Bees:

Common Name: Anise Hyssop

Bergamot (Horsemint)

Burning Bush Christmas Rose Coral Bells

Creeping Thyme

Crocus

Evening Primrose

Flax

Forget-Me-Not Garden Hyssop Gladiolus

Goatsbeard Goldenrod

Grape Hyacinth (Common)

Hollyhock Mountain Bluet

Purple Rock Cress

Sage Snowdrop Stonecrop

Tickseed True Geranium

Legend:

Turtleheads

≭ = full sun

= part sun/part shade

= full shade

spp. = multiple species

Consult with local garden centres to determine which of the listed plants are suitable for your growing conditions.

In the Vegetable Garden:

Farmers have always relied on bees to ensure high yields of food crops. Berries, many vegetables, herbs, melons, pumpkin and squash are all pollinated by bees. Herbs particularly attractive to bees include lavendar, mint, catnip, sage, anise, thyme, rosemary, coriander, and fennel.

Left: Raspberries are an example of a crop pollinated by bees.

Bloom Time: June-September *

July * June*

October-May June-August

June-August * April or September *

June-September * late June-September *

May-June *

June-September 🌟 July-August *

late spring-summer * July-September *

March-April * June-August * May-July * spring *

June-July * January-April

September-October * spring-fall *

summer * Late summer *

to 30cm/12" 20-30cm/8-12"

15-61cm/6-24" 100cm/36"

Trees Known to Attract

Common Name: Scientific Name: Angelica Tree Aralia spinosa Apple, Crabapple Malus spp. Basswood Tilia americana Black Locust Robinia pseudoacacia Catalpa Catalpa speciosa Cherry, Peach, Plum Prunus spp. Clammy Locust Robinia viscosa Eastern Redbud Cercis canadensis Hoptree Ptelea trifoliata Japanese Pagoda Tree Sophora japonica Linden Tilia spp. Maple, Amur Acer ginnala Maple, Hedge Acer campestre Acer palmatum Maple, Japanese Maple, Norway Acer platanoides Maple, Red Acer rubrum Maple, Silver Acer saccharinum Maple, Sugar Acer saccharum Maple, Vine Acer circinatum Ohio Buckeye Aesculus glabra Tulip Tree Liriodendron tulipifera Willow Salix spp.

Bees:
Bloom Time:
August *
late May *
mid June-mid Aug
May-June *
late June *
spring *
June *
April-May
May-June
late Aug-late Sept *
mid summer *
early June *
early May 🗱
May *
early May 🗱
early April *
March *
early May 🗱
late April *

May-June *

June-July *

April *

June *

Height: 3-10m/10-33° 2-9m/6-30° to 31m/102' 9-15m/30-50' 12-18m/39-59' 2-15m/6-50° to 12m/39' 3-9m/10-30' 4-8m/13-26' 15-23m/50-75° 20-40m/65-130° 6-9m/20-30° 15-25m/50-82° 3-6m/10-18° 15-23m/50-75° to 28m/92' 15-25m/50-82' 25-35m/82-115' 15m/50° to 18m/60' 12-24m/39-79' 3-30m/10-98' 9-12m/30-39°

Below (from top): Vegetables like cucumber, herbs like anise hyssop, and trees such as Basswood, Catalpa and Tulip Tree are all beautiful and beneficial to bees, the world's number one natural pollinators.











Shrubs and Groundcovers for Bees:

Cladrastis lutea

Shrubs and	Ground
Common Name:	Scientific 1
Beauty Bush	Kolkwitzia amai
Caragana (Siberian Pea)	Caragana arboi
Cotoneaster	Cotoneaster spp
Currant	Ribes spp.
Deutzia	Deutiza spp.
False Spirea	Sorbaria sorbife
Hawthorn	Crataegus spp.
Heather	Calluna vulgari
Hydrangea	Hydrangea spp.
Japanese Lilac	Syringa reticula
Oregon Grape	Mahonia aquifo
Red-Osier Dogwood	Cornus stolonife
Russian Olive	Elaeagnus angu
Scarlet Firethorn	Pyracantha coc
Shrub Rose (single)	Rosa spp.
Snowball	Viburnum spp.
Sumac	Rhus spp.
Summersweet	Clethra alnifolia
Tatarian Honeysuckle	Lonicera tatario
Weigela	Weigela florida
Willow	Salix spp.
Winterberry	Ilex verticillata

Yellow Wood

Name: Bloom Time: nahilis borescens pp. oifolia aris p. ılata ifolium ıifera gustifolia occinea olia rica

June * June * May-July * April-May * May-June * July-August * May-June * August-November * July-September June 3 May * June D June * May * spring-summer * April-May * June-July * late July-late Sept * late May/early June * to 3m/10' April-June * April * June *

1.8-2.5m/6-8' 1-4m/3-13° to 2m/6' to 6m/20' to 50cm/20" 30-91cm/1-3' to 9m/3090-180cm/3-6' 2m/7'to 9m/30' to 2m/6' 30-305cm/1-10' 60-450cm/2-15° 2-8m/6-25' 1-3m/3-10' to 1.5m/5' to 8m/26' 2-3m/6-9'

Height:

4.5m/15°

to 6m/20'

to 1m/3