

Each garden is a miniature ecosystem. The creatures within it determine what thrives, survives, deteriorates or dies.

Any rash action taken by the gardener may affect that all important equilibrium between the garden's pests and guests.

The wildlife gardener needs to adopt a 'Live and let live' philosophy which means allowing a balance of good and bad insects to exist for their mutual benefit.

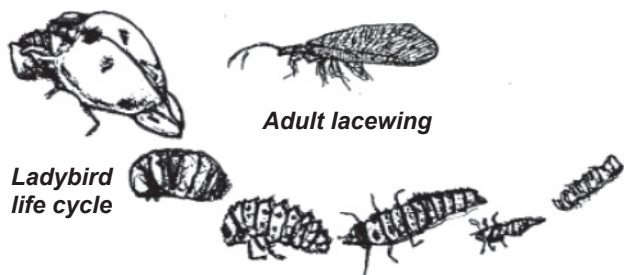
Spraying with chemicals ultimately does more damage than good. It creates an imbalance where beneficial predatory insects

starve because their food source is diminished.

It is best to grow as wide a range of plants as possible to attract both beneficial predators and the undesirable pests on which they live.

### Double trouble

Ladybirds are invaluable in the garden, both adult and larvae feed on destructive pests such as aphids, thrips, mealy bugs and mites. An adult ladybird can consume 5000 aphids during its life. Some ladybirds even feed on powdery mildew fungal spores. Another 'must-have' insect is the lacewing, which also offers the wildlife gardener two for the price of one, as once again both the adult and ferocious looking larvae eat aphids, mites, leafhoppers and scale insects. Plant bright flowers particularly yellows and purples as these attract many beneficial insects.



### Pest deterrent plants

Many garden pests are attracted by scent. Planting strong smelling herbs may repel them. If they don't deter them they may encourage biological control in the form of predators such as the hoverfly whose larvae eat up to 50 aphids a day!

Tansy	Marigolds
Mints	Wormwood
Catnip	Onion/garlic family

### Have a smashing time in the garden

The song thrush consumes vast quantities of garden snails. So give them a helping hand by placing a flat stone in the flower border, which they can use as an anvil to smash the shell.

For more information on dealing with slugs and snails in the garden see factsheet **Snail and Slug control**.



thrush 'anvil'

### Marigolds

The marigold has several uses around the garden. It attracts the adult hoverfly. Its roots emit a substance which repels the potato root eelworm and some other types of nematode worms. Beware, the white butterfly is also partial to the marigolds, so make sure you plant them away from the cabbage patch.



hoverfly

### Fast friends

A rough and ready rule for deciding if a non-flying creature is a friend or foe is 'does it move quickly?' If so, it is likely to be a predator and therefore a gardener's friend, whereas if it is slow moving, it is probably a plant eater and could be a nuisance in the garden.

## Why so many?

Man has helped to create the problem of garden pests. In the wild these animals are not a problem. The creatures are not presented with row upon row of delicious plants. They are all dispersed and the insects will have to search around for long periods looking for another food plant. Many of them will starve before they find another suitable plant or they may be discovered and eaten by predators. In the garden the adult will lay its eggs on a suitable plant for the young to eat. When they have consumed that they will move along the row to the next plant. Because it doesn't have to travel far there is less chance of it being discovered and eaten. Therefore they start to thrive.

## 'Fairy's Pigs'

Bibble-bugs, tiggy-hogs and fairy's pigs are all names for the woodlouse. These creatures are important in the breakdown of plant material. By eating decaying matter they help to retain nutrients in the soil.



Bats can eat up to 3500 insects a night. See our **Basically Boxes** factsheet for bat and birdhouses.



By autumn many of the gardener's allies are looking for places to spend the winter. Being overtidy in the garden tends to remove many of the hibernation sites of these pest predators. So try to leave as much of the garden undisturbed as possible.

## Decoys

Most wildlife gardeners already know of the benefits of leaving a patch of nettles in a sunny spot for butterfly larvae to feed on. However now there is another reason, as it seems that they are a favoured food of snails. They congregate around the nettles, thus acting as decoy away from those prized vegetables and plants.

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photos - hoverfly, wasp: R. Burkmar  
woodlouse - S. Tatman

## Wasps

The social wasp, which is not everyone's favourite at picnics, is of great use around the garden. The grubs of the wasp are fed almost entirely on caterpillars and other insects. By the end of the summer a nest may have consumed up to 250,000 insects. Solitary wasps also feed their young on flies, aphids and caterpillars and therefore should also be encouraged into the wildlife garden. To make a stick case for solitary wasps see our **Creature Feature** factsheet.



## Hoverflies

The adult hoverfly with its black and yellow stripes mimics the wasp but is completely harmless and should be encouraged into the garden. The maggot-like larva munches aphids by the dozen before emerging as an adult. Plants to attract hoverflies include:



Michaelmas daisy  
Phacelia  
Sedum  
Teasel  
Angelica  
Scabious



## Log pile

A pile of logs in a shady corner makes a good home for many of the garden's welcome guests. Frogs, toads, shrews, hedgehogs, ground beetles, centipedes and rove beetles will all use a log pile for a home. Site the log pile in an area that is shady for most of the day with cover nearby. Try to use a mixture of different types of woods, 15-25 cm in diameter and preferably with the bark still on. Avoid treated wood. You could even site a hedgehog box under it. If you wish to make a hedgehog home see our factsheet on **Furry Furniture**.



## Living landscape

Our gardens represent a vast living landscape; and with an estimated 16 million gardens in the UK, the way they are managed can make a big difference to wildlife.

Across gardens and beyond, The Wildlife Trusts' vision to create a Living Landscape involves enlarging, improving and joining-up areas of wildlife-rich land in all parts of the UK. There are now over 100 inspirational Living Landscape schemes around the UK, rich in opportunities for sustainability, learning, better health and wellbeing. What is good for wildlife is good for people too. For more information go to

[www.gloucestershirowildlifetrust.co.uk](http://www.gloucestershirowildlifetrust.co.uk)