Pollinators

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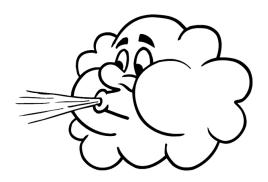
Pollination



The transfer of pollen to enable fertilisation













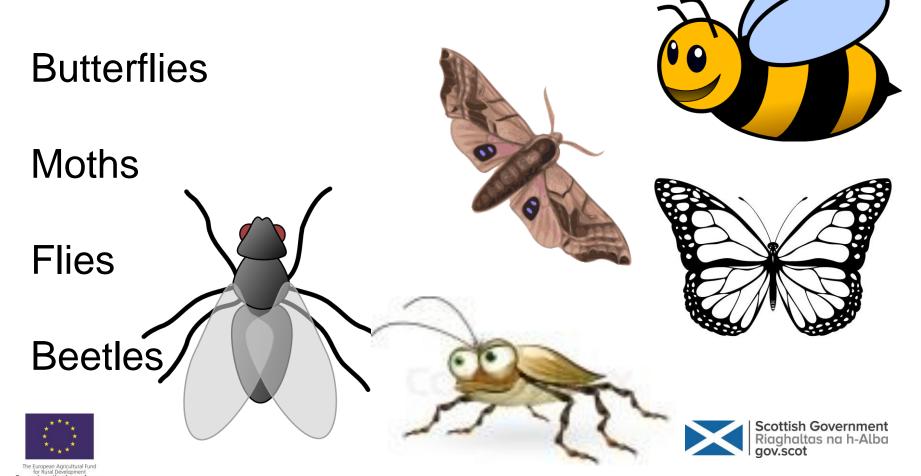




Insect Pollinators



Bees - honey and Bumble



Pollinators



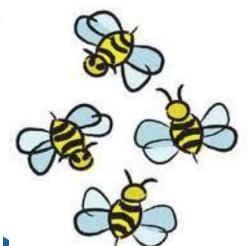
Pollinators are an important part of the Farming Industry

In the UK insect pollination contributes over £440 million to farm income (2010) directly

The value of pollinating insects is vitally important to the ecosystem and to food production









Honeybees are generally thought to be the most important

pollinators in the farming industry

Pollinating insects are crucial for Vegetables, fruit, oilseeds, legumes fodder crops

It is estimated that one third of the human food supply depends on bees







Butterflies and Moths



What do we think the differences are between butterflies and moths?

Colourful and pretty
Fly by day.
Brown and drab
Eat clothes
Fly by night

There are around 50 species of butterfly and 2500 species of moths in the UK







Moth or butterfly?















Wild Bumble bees, Solitary bees and commercial bees provide the majority of our pollination services

Bumble Honey











Does size matter?





Long is not always best: We need the right pollinator for the right plant.



Did you know

- The cacao (chocolate) tree is actually pollinated by midgies
- Mosquitos pollinate some orchids
- A Hawk moth has a proboscis more than 1 foot long in order to pollinate the comet orchid









Why are we worried about pollinators



A recent study in nature reserves in Germany show a 75% decline in flying insects over the last 25 years.

Causes are thought to be

- Loss of flower rich habitats
- Widespread use of Pesticides and Herbicides
- Intensification of agriculture and loss of hay fields and clover leys.







What do bees need



 A supply of food (pollen and nectar) from April to September

 Suitable nesting site. Mostly underground, in wall cavities or in tussocky grassland

 Suitable places to hibernate, underground, banks, ditches or in dead wood.









Wildflower rich grasslands are the most important habitat for bees.





Clover Leys



Don't cut too early for bees



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Flower species important to bees



Early Season flowers

- Goat Willow
- White dead nettle
- Blaeberry
- Birds foot trefoil
- Wild Cherry
- Bugle

Mid to Peak Season

- White and red clover
- Yellow rattle
- Foxglove
- Raspberry
- Bramble
- Heathers
- Common knapweed
- Devils bit scabious
- Ivy











Farm gardens are important too









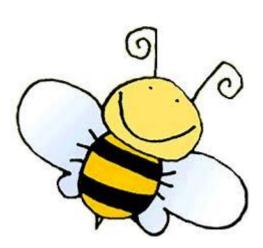


So if you want to protect bees here are a few things you can do

- Protect areas of wild flowers such as field margins
- Create wildflower areas on suitable places
- Think of bees when planting a hedge or shelter belt
- Delay the cutting of clover leys until after flowering
- Don't use neonicotinoid pesticides on farm or garden









Take up bee keeping















Thank you

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