Moor Meadows Guide Number 1 Meadow Insects



Butterflies, day-flying Moths and Bees

Meadows and other flower-rich verges and grasslands provide habitat for a wide variety of insects. This guide shows some of the butterflies, day-flying moths and bees found in the grasslands around Dartmoor. Details of their life histories is given, including how they spend the autumn and winter, to inform beneficial management of their habitats.



Flies between May and October. The caterpillar feeds on bird's-foot trefoil and is often tended by black ants Lasius niger. Overwinters as a caterpillar.



March to May. Eggs laid Flies between April on the flowers of Garlic and October. The **Mustard and Cuckoo** caterpillar feeds on Flower. Caterpillar feeds sorrel and dock. on seed pods. Full-grown Overwinters as a in June. Foodplants along caterpillar and hedges are best as pupa probably has an needs to remain association with undisturbed for 8 months.



May to September. Caterpillar on cuckoo flower and garlic mustard. Overwinters as a pupa like the Orange-tip.



Flies in May and June. in a silk tent on devil'sbit scabious. Light grazing in autumn is beneficial for this rare butterfly.



Aglais urticae Hibernates as an adult. Caterpillars overwinter Flies in two broods from March to May and July to August. Caterpillars feed

on nettles growing in

warm, sunny locations.



Hibernates as an adult. Flies from March to May and July to August. Caterpillars feed on nettles growing in warm, sunny locations.



Flies from June to Flies May to September. September.



ants.

August.



Orange-tip

Flies in July and Flies in June and July.



Flies in June and July. This is a close relative of the other 'browns' and overwinters as a tiny caterpillar.

All of these 'brown' butterflies overwinter as caterpillars which feed on grasses. Ideal management for them is to lightly graze meadows in autumn. If meadows are cut, unmown strips are beneficial to them.



Thymelicus sylvestris

July. Caterpillar overwinters and feeds mainly on Yorkshire fog grass.



Flies in June and Late June to August. Caterpillar overwinters and feeds mainly on cock's-foot grass.



Fly from June to August. The caterpillars overwinter and feed on birds'-foot trefoils. As with the 'brown' butterflies, light autumn grazing is most beneficial to them.

www.ukmoths.org.uk



Flies in May and June. Caterpillar feeds on bird's-foot trefoil and clovers from June to September.

Euclidia glyphica

on wings. Caterpillar feeds on grasses June to September. Overwinters as pupa. Overwinters as a pupa.



Flies in May and June. Flies in June and July. Flies in May and 'Witch face' markings Eggs are dropped to June. Caterpillar on the ground and overwinter. Caterpillar feeds on

Chimney Sweeper Odezia atrata

pianut in sprina.

Hemaris tityus devil's-bit scabious. Overwinters as pupa at ground level.

Bee Hawk moth



Flies in May and June. Caterpillar overwinters, it feeds on various plants including comfrey and alkanet.





Can be seen all year. Abdomen dark or with orange markings. Eves covered in short hairs. Usually nest in beekeepers hives but occasionally in tree holes and roof cavities.



Queens are large with buff-coloured tail. Workers have white tails and are very similar to White-tailed Bumblebee.

Bombus terrestris



A small bumblebee with Similar to White-tailed. Brown thorax, black an orange tail.

Early Bumblebee Garden Bumblebee Bombus hortorum

Bumblebees can be difficult to identify as the workers and males often vary in appearance

from the queens. Only the queens hibernate so it is easier to identify them when they first

appear in March and April. They often nest in disused rodent burrows in the ground.

Yellow on rear edge of thorax. Very long tongue.



body with white tail. Sometimes nests in bird boxes.

Common Carder Bee Bombus pascuorum Orange-brown thorax and buff body. Quite variable in colour and orange can fade. One of the commonest bumblebee. Nest often in base of

Search for 'Steven Falk Flickr Collections Bees' for more information on the UKs bees.



Queens are large, black with a red tail. Males have yellow on the thorax and face.



Bombus monticola An upland bee. Extensive red on body tailed Bumblebee separates it from the Red-tailed Bumblebee.



Cuckoo Bee

Bombus rupestris

Queens and

white tail.

workers with a

A cuckoo in Rednests. Dark wings and a little yellow on front of thorax.



Similar to Whitetailed. Has a yellow bumblebee. Often edge to the white tail. A cuckoo in Buff-tailed nests.



Anthophora plumipes Like a small hovers. Flies March to May. Nests in banks and cob walls.



Megachile centuncularis Flies June to August. Nests in crevices. Collects pollen on underside of abdomen.



grass tussocks.

Flies April to June. Nests in crevices. Often uses bee hotels and seals nests with mud.

Osmia bicornis



Flies June to August. Yellow spots on abdomen. **Nests in crevices. Males** guard patches of flowers especially woundworts for females to nectar on.



Andrena scotica





Mining bees are honeybee sized or smaller. They can be difficult to identify but some females are distinctive. The males look very similar to each other. Females dig nest burrows in the ground. The 'volcano' like spoil heaps are a good sign of their presence. About 30 species occur around Dartmoor. Each has a short flight period of about a month. They fly from March to September.









Honeybee-sized mining bee. Flies in autumn and gathers pollen from ivy.



Very small mining bee about 10 mm long. Males sometimes form roosts on seedheads in late summer.



like small wasps. They are cuckoos in mining bee nests.





Mining bees like sandy warm soil to burrow in. Creating sandy banks or adding sand to the soil particularly in southfacing situations close to flower rich meadows can provide additional nesting habitat.

Design John Walters 2021



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