

COTON ORCHARD SPECIES RECORD MOTHS

Species of conservation interest in bold

Common name	Scientific name	Year	Source of data	Conservation status
Angle Shades	<i>Phlogophora meticulosa</i>	2023	Local moth group	Common
Apple Ermine ⁱ	<i>Yponomeuta malinellus</i>	2023	Local moth group	Local
Ash-bark Knot-horn	<i>Euzophers pinguis</i>	2023	Local moth group	Common
Barred Fruit-tree Tortrix	<i>Pandemis cerasana</i>	2023	Local moth group	Common
Barred Marble	<i>Celypha striana</i>	2023	Local moth group	Common
Barred Straw	<i>Gandaritis pyraliata</i>	2023	Local moth group	Common
Barred Yellow	<i>Cidaria fulvata</i>	2023, 2024	Local moth group	Common
Beautiful Hook-tip	<i>Laspeyria flexula</i>	2024	Local moth group	Local
Black-headed Conch	<i>Cochylichroa atricapitana</i>	2023	Local moth group	Common
Bee moth	<i>Aphomia sociella</i>	2024	Local moth group	Common
Box-tree Moth	<i>Cydalima perspectalis</i>	2023	Local moth group	Adventive
Bramble Shoot Moth	<i>Notocelia uddmanniana</i>	2023	Local moth group	Common
Bright-line Brown-eye	<i>Lacanobia oleracea</i>	2023	Local moth group	Common
Broad-bordered Yellow Underwing	<i>Noctua Fimbriata</i>	2023	Local moth group	Common
Brown Bark Moth	<i>Crassa unitella</i>	2023	Local moth group	Local
Brown China-Mark	<i>Elophila nymphaeata</i>	2023	Local moth group	Common
Brown-line Bright-eye	<i>Mythimna conigera</i>	2023, 2024	Local moth group	Common
Bud Moth	<i>Spilonota ocellana</i>	2023, 2024	Local moth group	Common
Buff-tip	<i>Phalera bucephala</i>	2023, 2024	Local moth group	Common
Burnished Brass	<i>Diachrysia chrysitis</i>	2023	Local moth group	Common
Chinese Character	<i>Cilix glaucata</i>	2024	Local moth group	Common
Cinnabar	<i>Tyria jacobaeae</i>	2024	Local moth group	Common
Clay	<i>Mythimna farrago</i>	2023	Local moth group	Common
Clouded Border	<i>Lomaspilis marginata</i>	2023	Local moth group	Common

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Codling Moth	<i>Cydia pomonella</i>	2023, 2024	Local moth group	Common
Common Emerald	<i>Hemithea aestivaria</i>	2023, 2024	Local moth group	Common
Common Footman	<i>Eilema lurideola</i>	2023, 2024	Local moth group	Common
Common Marble	<i>Celypa lacunana</i>	2023, 2024	Local moth group	Common
Common Plume	<i>Emmelina monodactyla</i>	2023, 2024	Local moth group	Common
Common Wainscot	<i>Mythimna pallens</i>	2023	Local moth group	Common
Common White Wave	<i>Cabera pusaria</i>	2024	Local moth group	Common
Common Yellow Conch	<i>Agapeta hamana</i>	2023	Local moth group	Common
Dark Arches	<i>Apamea monoglypha</i>	2023, 2024	Local moth group	Common
Dark Crimson Underwing	<i>Catocala sponsa</i>	2024	Local moth group	Rare (Priority species)
Dark Sword-grass	<i>Agrotis ipsilon</i>	2023	Local moth group	Migrant
Dark Umber	<i>Philereme transversata</i>	2023	Local moth group	Common
Dark/Grey Dagger agg.. ⁱⁱⁱ	<i>Acronicta</i> sp.	2023	Local moth group	Common
Diamond-back	<i>Plutella xylostella</i>	2023	Local moth group	Migrant
Dotted Oak Knot-horn	<i>Phycita roborella</i>	2023	Local moth group	Common
Double Square-spot	<i>Xestia triangulum</i>	2023, 2024	Local moth group	Common
Dun-bar	<i>Cosmia trapezina</i>	2023, 2024	Local moth group	Common
Early Thorn	<i>Selenia dentaria</i>	2024	Local moth group	Common
Epeestia species	<i>Epeestia</i> sp.	2024	Local moth group	Adventive
Elephant Hawk-moth	<i>Deilephila elpenor</i>	2023, 2024	Local moth group	Common
Flame	<i>Axylia putris</i>	2023	Local moth group	Common
Garden Carpet	<i>Xanthorhoe fluctuate</i>	2023	Local moth group	Common
Garden Grass-veneer	<i>Chrysoteuchia culmella</i>	2023	Local moth group	Common
Garden Straw	<i>Agapeta hamana</i>	2024	Local moth group	Common
Golden-brown Tubic	<i>Crassa unitella</i>	2023	Local moth group	Common
Green Pug	<i>Pasiphila rectangulata</i>	2023, 2024	Local moth group	Common

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Grey Tortrix agg. ⁱⁱ	<i>Cnephasis</i> sp.	2023, 2024	Local moth group	Common
Hawthorn Moth	<i>Scythropia crataegella</i>	2024	Local moth group	Common
Heart and Club	<i>Agrotis clavis</i>	2023, 2024	Local moth group	Common
Heart and Dart	<i>Agrotis exclamationis</i>	2023, 2024	Local moth group	Common
Hoary Tortix	<i>Eucosma cana</i>	2023, 2024	Local moth group	Common
Large Fruit-tree Tortrix	<i>Archips podana</i>	2023, 2024	Local moth group	Common
Large Nutmeg	<i>Apamea anceps</i>	2023	Local moth group	Local
Large Yellow Underwing	<i>Noctua pronuba</i>	2023, 2024	Local moth group	Common
Least Carpet	<i>Idaea rusticata</i>	2023	Local moth group	Local
Lesser Broad-bordered Yellow Underwing	<i>Noctua janthe</i>	2023	Local moth group	Common
Light Arches	<i>Apamea lithoxylaea</i>	2023, 2024	Local moth group	Common
Lunar-spotted Pinion	<i>Cosmia pyralina</i>	2023, 2024	Local moth group	Local
Maple Button	<i>Acleris forsskaleana</i>	2023	Local moth group	Common
Marble Orchard Tortrix	<i>Henya nubiferana</i>	2023, 2024	Local moth group	Common
Mottled Beauty	<i>Alcis repandata</i>	2024	Local moth group	Common
Mottled Rustic	<i>Caradrina Morpheus</i>	2024	Local moth group	Common
Oak Longhorn	<i>Carcina quercana</i>	2023	Local moth group	Common
Obscure Wainscot	<i>Leucania obsoleta</i>	2024	Local moth group	Local
Pearl Grass-veneer	<i>Catoptria pinella</i>	2023	Local moth group	Common
Poplar Hawk-moth	<i>Laothoe populi</i>	2023	Local moth group	Common
Privet Hawk-moth	<i>Sphinx ligustri</i>	2023, 2024	Local moth group	Common
Red-barred Tortrix	<i>Ditula angustiorana</i>	2023, 2024	Local moth group	Common
Riband Wave	<i>Idaea aversata</i>	2023	Local moth group	Common
Rosy Tabby	<i>Endotricha flammealis</i>	2023	Local moth group	Common
Rustic	<i>Hoplodrina blanda</i>	2023	Local moth group	Common

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Satin Grass-veneer	<i>Crambus perlella</i>	2023	Local moth group	Common
Scalloped Oak	<i>Crocallis elinguaris</i>	2024	Local moth group	Common
Scarce Footman	<i>Eilema complana</i>	2023, 2024	Local moth group	Common
Setaceous Hebrew Character	<i>Xestia c-nigrum</i>	2023, 2024	Local moth group	Common
Shears	<i>Hada plebeja</i>	2023, 2024	Local moth group	Common
Short-cloaked Moth	<i>Nola confusalis</i>	2023	Local moth group	Common
Shuttle-shaped Dart	<i>Agrotis puta</i>	2023	Local moth group	Common
Silver Y	<i>Autographa gamma</i>	2023	Local moth group	Migrant
Single-dotted Wave	<i>Idaea dimidiata</i>	2024	Local moth group	Common
Small Blood-vein	<i>Scopula imitaria</i>	2023	Local moth group	Common
Small Grey	<i>Eudonia mercurella</i>	2023	Local moth group	Common
Small Magpie	<i>Anania hortulata</i>	2024	Local moth group	Common
Small Purple and Gold	<i>Pyrausta aurata</i>	2023	Local moth group	Common
Smoky Wainscot	<i>Mythimna impure</i>	2023, 2024	Local moth group	Common
Smoky-barred Marble	<i>Lobesia abscisana</i>	2023	Local moth group	Common
Snout	<i>Hypena proboscidalis</i>	2024	Local moth group	Common
Spectacle	<i>Abrostola tripartite</i>	2023	Local moth group	Common
Straw-barred Pearl	<i>Pyrausta despicata</i>	2023	Local moth group	Common
Straw Dot	<i>Rivula sericealis</i>	2024	Local moth group	Common
Summer Rose Bell	<i>Notocelia roborana</i>	2023	Local moth group	Common
Swallow-Tailed Moth	<i>Ourapteryx sambucara</i>	2023	Local moth group	Common
Thistle Ermine	<i>yelois circumvolute</i>	2024	Local moth group	Local
Triangle-marked Roller	<i>Ancylis achatina</i>	2023	Local moth group	Common
Triple-blotched Bell	<i>Notocelia trimaculana</i>	2023	Local moth group	Common
Twin-barred Knot-horn	<i>Homoeosoma sinuella</i>	2023	Local moth group	Common
Uncertain ^{iv}	<i>Hoplodrina octogenaria</i>	2023, 2024	Local moth group	Common
Variiegated Golden Tortrix	<i>Archips xylosteana</i>	2024	Local moth group	Common
Water Veneer	<i>Acentria ephemerella</i>	2024	Local moth group	Common

Common name	Scientific name	Year	Source of data	Conservation status
Willow Beauty	<i>Peribatodes rhomboidaria</i>	2023, 2024	Local moth group	Common
Wormwood Pug	<i>Eupithecia absinthiata</i>	2024	Local moth group	
Marbled Minor agg. ^v	<i>Oligia</i> sp.	2023	Local moth group	
Yellow Shell	<i>Campptogramma bilineata</i>	2023, 2024	Local moth group	Common

i Three species of ‘Ermine’ (*Yponomeuta*) are very similar and cannot be reliably distinguished by eye – *Y. padella* (Orchard Ermine), *Y. malinellus* (Apple Ermine) and *Y. Cagnagella* (Spindle Ermine). However, in this case, some of the visitors present at unpacking the traps reported seeing the webs in the apple trees close to the trapping site. It is therefore highly likely that the specimens netted during the night and found in the trap are Apple Ermine.

ii *Cnephasia* spp. – the grey Tortrix *Cnephasia* cannot be reliably visually determined with any certainty and mostly share the same foodplants. Gen. Det. is needed to determine specimens at species level.

iii Grey Dagger and Dark Dagger are visually identical and need dissection and examination of the genitalia to distinguish them at species level.

iv When counting ‘Uncertain’ and the next on the list, ‘Rustic’ I have aggregated all specimens found. Some can definitely be identified as ‘Uncertain’ and other definitely as ‘Rustic’. However, due to the numbers being processed while unpacking and the time available to consider individual specimens it seemed safer to ‘aggregate’ these two species which can be very similar, especially with worn examples.

v Marbled Minor, Tawny Marbled Minor and Rufous Minor are very similar and require gen. det. To determine at species level for certainty.