



Moths of Poole Harbour is a project of Birds of Poole Harbour

Moths on Ballard Down 2018 – 2019

The 'Moths of Poole Harbour' project was set up in 2017 to gain knowledge of moth species occurring in Poole Harbour, Dorset, their distribution, abundance and to some extent, their habitat requirements. The study area uses the same boundaries as the Birds of Poole Harbour project.



Birds of Poole harbour recording area

In 2019 we trapped from May – September inclusive, setting 3 Mercury Vapour (MV’s) traps and one ‘actinic’ (ultra-violet). We trapped at the top of the hill at the BoPH bird ringing site; an area of scrub surrounded by agricultural fields, which in 2018 was kept open by Ollie Slessor, the bird-ringer, by strimming vegetation. However, ringing ceased in 2019 and brambles began to encroach over the paths. There was also the issue of the chain ferry being out of commission for some months which made regular trapping unviable.

The site is a rich mosaic of hedgerow and scrubland and attracts resident and migratory birds and, not surprisingly, has a rich and varied moth fauna. Other wildlife is well represented on the site which has few human visitors.

There are no obvious sources of water near the site and the moth fauna reflects this with a lack of wetland species, making the overall richness all the more remarkable. A number of species do appear to have been drawn from Studland, both Little Sea and the heaths. A few migrant moths were encountered.

NOTABLE SPECIES FOUND ON BALLARD DOWN (15 Species)

Certain species are designated for their rarity. The designations are Nationally Scarce A or Notable A (Na) (recorded in 16 – 30 10km squares since 1980), Nationally Scarce B or Notable B (Nb) (recorded from 31 – 100 10km squares since 1980) and Red Data Book (RDB) (recorded from fewer than 15km squares in Britain). Micro-moths are in italics in Latin and macro moths use the common English name.

Species	Status	Year recorded
<i>Crambus silvella</i>	RDB	2018
<i>Cnephasia conspersana</i> *	Nb	2018
<i>Dolicharthria punctalis</i>	Nb	2018
<i>Evergestis limbata</i>	Nb	2018
Festoon	Nb	2019
<i>Glyphipterix schoenicolella</i> *	Na	2018
Horse Chestnut	Nb	2018
Jersey Tiger	Nb	2018
Kent Black Arches	Nb	2018 & 2019
L-album Wainscot	Nb	2018 & 2019

Mathew's Wainscot ⁽¹⁾ see below	Nb	2019
<i>Oncocera semirubella</i>	Nb	2018
<i>Pempelia genistella</i>	Nb	2019
<i>Platyedra subcinerea</i>	Nb	2019
<i>Scrobipalpa ocellatella</i> *	Nb	2018

Species marked with an * have been verified by Dr Phil Sterling

SPECIES RECORDED AT BALLARD DOWN THAT HAVE NOT BEEN RECORDED BY MoPH ELSEWHERE (51 SPECIES):

It is worth noting that the status given here is the 'national' status. The local status can be markedly different, sometimes dependant on available habitat or other factors. Where identification was difficult based on external features alone, or the moth species was listed as Grade 3, 4 or G, examination of genitalia may have been required, in which case, the moth was sent to Dr Phil Sterling to identify. In some cases, a photograph is sufficient and may have been sent to the Living Record verifier. ⁽¹⁾ At the time of writing, we are still waiting on verification of Mathew's Wainscot, a Nb species.

It is significant that so many species have been recorded on Ballard down and not elsewhere. This may attest to the habitat type, as many of our other sites are heathland, woodland or wetland. This site sits on top of a hill on chalk, surrounded by agricultural fields, sheltered by an area of scrub with little disturbance. Overlooking the coast, the site also attracts migrants.

Species	National Status*	Verified by:	Year found	No. of individuals found on no. of occasions
<i>Acleris cristana</i>	Common		2018	1/1
<i>Acleris sparsana</i>	Common		2018	1/1
<i>Acrobasis advenella</i> (now <i>Trachycera advenella</i>)	Common		2018	4/1
<i>Aethes rubigana</i>	Common		2018	1/1
<i>Agonopterix arenella</i>	Common		2018	1/1
Alder Moth	Local		2018	2/2
<i>Ancylis badiana</i>	Common	Dr Phil Sterling	2018	1/1
<i>Approaerema</i>	Local	Dr Phil Sterling	2018	1/1

<i>anthyllidella</i>				
<i>Argyresthia albistria</i>	Common		2018	1/1
<i>Argyresthia semifusca</i>	Common	Dr Phil Sterling	2018	1/1
<i>Argyresthia spinosella</i>	Common	Dr Phil Sterling	2018	1/1
Blackneck	Local		2018 & 2019	21/4
<i>Caloptilia semifascia</i>	Local	Dr Phil Sterling	2018	2/2
Chocolate-tip	Local		2018	1/1
<i>Cnephasia conspersana</i>	Nb	Dr Phil Sterling	2018	1/1
<i>Dolicharthria punctalis</i>	Nb		2018	1/1
Dusky Sallow	Common		2018	1/1
<i>Endothenia marginana</i>	Common	Dr Phil Sterling	2018	5/4
<i>Epiblema costipunctana</i>	Common	Dr Phil Sterling	2018 & 2019	2/2
<i>Epinotia nisella</i>	Common		2018	4/2
<i>Esperia sulphurella</i>	Local		2018	1/1
<i>Eucosma obumbratana</i>	Local		2018	1/1
Fern	Common		2018 & 2019	2/2
<i>Glyphipterix schoenicolella</i>	Na	Dr Phil Sterling	2018	1/1
<i>Grapholita funebrana</i>	Local	Dr Phil Sterling	2018	1/1
<i>Hedya nubiferana</i>	Common		2018 & 2019	4/3
<i>Homoeosoma sinuella</i>	Common	Dr Phil Sterling	2018	1/1
<i>Lozotaenia forsterana</i>	Common		2019	1/1
Mathew's Wainscot	Nb	Awaiting confirmation	2019	1/1
<i>Metzneria lappella</i>	Local		2018 & 2019	2/2
<i>Micropteryx aruncella</i>	Common	Dr Phil Sterling	2018	1/1
<i>Nemophora degeerella</i>	Common		2018	1/1
<i>Nephtopterix angustella</i>	Local		2018	1/1
<i>Notocelia rosaecolana</i>	Common	Dr Phil Sterling	2018	2/2
<i>Paraswammerdamia albicapitella</i>	Common	Dr Phil Sterling	2018	1/1
<i>Platyedra</i>	Nb		2019	1/1

<i>subcinerea</i>				
Pretty Chalk Carpet	Common		2018 & 2019	14/8
Rosy Minor	Common	Dr Phil Sterling	2018	1/1
Scorched Carpet	Local		2018	1/1
<i>Scrobipalpa ocellatella</i>	Nb	Dr Phil Sterling	2018	1/1
<i>Scythropia crataegella</i>	Common		2018	1/1
Shark	Common		2018 & 2019	9/5
Slender Pug	Common		2019	1/1
Small Fan-foot	Common		2019	1/1
<i>Syndemis musculana</i>	Common		2018 & 2019	4/2
Tawny Shears	Common		2018	1/1
<i>Teleiodes vulgella</i>	Common	Dr Phil Sterling	2018 & 2019	4/2
Twin-spot Carpet	Common		2018	1/1
White Satin	Local		2018	1/1
Wood Carpet	Local		2018	1/1
<i>Zeiraphera isertana</i>	Common		2018	2/2

*Status listed as per Dorset Moths Group website 2020.

A large proportion of the species listed above have been recorded once as a single individual. This proves presence and adds a species to our overall list, but does it show that in general abundance of these species is poor? Even where species are described as 'common' nationally, they may be at low density locally. A relatively few species were recorded again and again, such as Blackneck and Pretty Chalk Carpet, but were not seen on any other site in the harbour. In these cases, larval foodplant and habitat type is important. As the name suggests, Pretty Chalk Carpet inhabits chalk grassland, its larval foodplant is Traveller's Joy. Blackneck feeds on Tufted Vetch as larvae. Records listed in **bold** above refer to species found as individuals in 2019 alone.

SECTION 41 SPECIES

In addition, 27 other species are included on Section 41 (S41) of the 2006 Natural Environment and Rural Communities Act. These species, designated to be "of principal importance for the purpose of conserving biodiversity" are those that are most threatened, in greatest decline, or where the UK holds a significant proportion of the world's total population. These are included in the table below for completeness.

Common Name	Latin Name
Autumnal Rustic	<i>Eugnorisma glareosa</i>
Beaded Chestnut	<i>Agrochola lychnidis</i>
Blood Vein	<i>Timandra comae</i>
Buff Ermine	<i>Spilosoma luteum</i>
Cinnabar	<i>Tyria jacobaeae</i>
Crescent	<i>Celaena leucostigma</i>
Dark-barred Twin-Spot Carpet	<i>Xanthorhoe ferrugata</i>
Dusky Brocade	<i>Apamea remissa</i>
Dusky Thorn	<i>Ennomos fuscantaria</i>

Feathered Gothic	<i>Tholera decimalis</i>
Flounced Chestnut	<i>Agrochola helvola</i>
Galium Carpet	<i>Epirrhoe galiata</i>
Garden Tiger	<i>Arctia caja</i>
Hedge Rustic	<i>Tholera cespitis</i>
Knot Grass	<i>Acronicta rumicis</i>
Mottled Rustic	<i>Caradrina morpheus</i>
Mullein Wave	<i>Scopula marginepunctata</i>
Oak Hook-tip	<i>Watsonalla binaria</i>
Pretty Chalk Carpet	<i>Melanthia procellata</i>
Rosy Rustic	<i>Hydraecia micacea</i>
Sallow	<i>Xanthia icteritia</i>
September Thorn	<i>Ennomos erosaria</i>
Shoulder-striped Wainscot	<i>Mythimna comma</i>
Small Emerald	<i>Hemistola chrysoprasaria</i>
Small Square-spot	<i>Diarsia rubi</i>
White Ermine	<i>Spilosoma lubricipeda</i>
White-line Dart	<i>Euxoa tritici</i>

SPECIES ACCOUNTS - Highlights

Acleris cristana – This unmistakable, yet highly variable Tortrix is uncommon locally and is the only record for MoPH. The astonishing photo below shows the diagnostic scale tufts in the middle of the wing. This species feeds on blackthorn and hawthorns which are abundant at Ballard.



Photo credit: Paul Harris
Dorset Moths

Agonopterix arenella – Although common nationally and locally, this is the only MoPH record. This species feeds on thistles, knapweeds and burdock.



Alder Moth – Local and thinly distributed, this distinctive species feeds on a variety of broadleaved trees. It has only been found by the project on Ballard Down.

Blackneck – Feeding on Tufted Vetch as a larva, this local species seems to be expanding its range. Found by the project in both 2018 and 2019, the Blackneck appears to be quite locally common with 21 individuals found on four occasions.



Aspilapteryx tringipinella – Found on only Arne Moors and Ballard Down, this distinctive *Gracillariidae* seems to be locally abundant with 51 individuals found on 9 occasions.

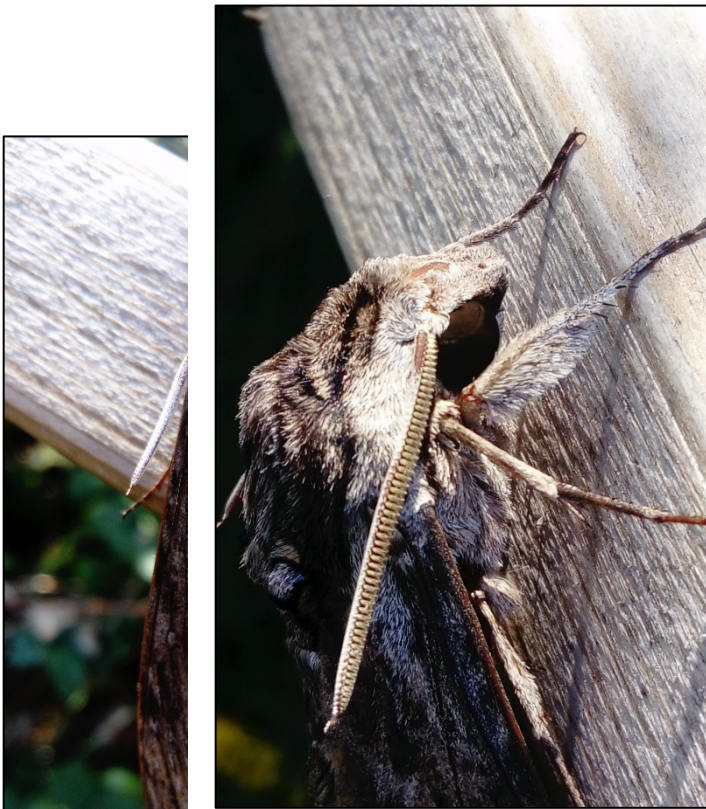
Chocolate-tip – Feeding on poplars and willows as larva, this nationally local species has only been recorded at Ballard on one occasion and on no other sites.



Clifden Nonpareil –

This large, unmistakable migrant is a sought-after 'tick' for moth twitchers. The individual shown here is clearly a migrant due to the condition of its wings. However, individuals found at Carey Estate were in better condition and it's possible there are resident populations.

Convolvulus Hawk – The large migrant, Convolvulus Hawk feeds on various bindweeds and is an annual visitor to Southern Britain. Found by MoPH on Ballard, Holton Lee and a garden in Hamworthy.



Crambus silvella – A RDB species has been found on four sites in Poole Harbour, but only on one occasion on Ballard. Feeding on sedges in boggy heathland and mires, it is perhaps surprising that one was found on Ballard at all.

Evergestis limbata – An attractive *Crambid* of Nb status. Feeding on Garlic Mustard/ Hedge Mustard, this species has been found by MoPH on three sites in the Harbour.

Fern – Although nationally common, this species is uncommon and thinly distributed in Dorset. Feeding as larvae on clematis/ Traveller's Joy, MoPH have recorded this species only twice and only on Ballard.

Festoon – This small Nb macro moth feeds on oaks and beech as a larva, but does not feed as an adult. MoPH have caught this moth on six sites in the Harbour, but only once on Ballard.

Nephopterix angustella – This very distinctive 'local' micro has only been found by MoPH on one occasion at Ballard Down. Feeding on Spindle as larvae. The raised scales on the wing are diagnostic.



Pempelia genistella – Feeding on gorse, this Nb moth is encountered fairly frequently in Dorset, with MoPH recording it on 11 sites. It has only been recorded once on Ballard.



Pretty Chalk Carpet – As the name suggests this species prefers chalk grassland and feeds on Traveller's Joy. MoPH have recorded 14 individuals on 8 occasions. It has not been recorded by MoPH elsewhere in the Harbour.

Acknowledgements:

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Appendix 1: Full Species List of 363 Moths (2018 & 2019)

Species	Times recorded	Total number seen
<i>Acleris cristana</i>	1	1
<i>Acleris laterana</i>	5	8
<i>Acleris sparsana</i>	1	1
<i>Acleris variegana</i>	3	6
<i>Acrobasis advenella</i>	1	4
<i>Adaina microdactyla</i>	1	4
<i>Aethes rubigana</i>	1	1
<i>Agapeta hamana</i>	8	29
<i>Agnopterix arenella</i>	1	1
<i>Agriphila inquinatella</i>	1	1
<i>Agriphila straminella</i>	4	27
<i>Agriphila tristella</i>	5	13
Alder Moth	2	2
<i>Anania crocealis</i>	4	4
<i>Anania lancealis</i>	2	5
<i>Ancylis achatana</i>	2	14
<i>Ancylis badiana*</i>	1	1
Angle Shades	9	13
Annulet	1	1
<i>Aphomia sociella</i>	1	1
<i>Apotomis capreana</i>	1	2
<i>Aproaerema anthyllidella*</i>	1	1
Archer's Dart	1	1
<i>Archips podana</i>	7	27
<i>Argyresthia albistria</i>	1	1
<i>Argyresthia semifusca*</i>	1	1
<i>Argyresthia spinosella*</i>	1	1
<i>Aspilapteryx tringipinella</i>	9	51
Autumnal Rustic	1	1
<i>Bactra lancealana</i>	4	11
Barred Red	1	1

Barred Sallow	4	10
Barred Straw	5	26
Beaded Chestnut	5	60
Beautiful Hook-tip	1	1
Beautiful Yellow Underwing	1	1
Black Arches	1	1
Black Rustic	6	43
Blackneck	4	21
<i>Blastobasis adustella</i>	5	15
<i>Blastobasis lacticolella</i>	1	2
Blood-vein	7	8
Blue-bordered Carpet	1	1
Bordered Beauty	1	1
Bordered Sallow	1	1
Brick	2	2
Bright-line Brown-eye	12	27
Brimstone	14	32
Brindled Pug	2	3
Broad-bordered Yellow Underwing	8	19
Broken-barred Carpet	1	2
<i>Brown China-mark</i>	1	1
Brown Silver-line	1	2
Brown-tail	4	9
Brussels Lace	3	4
Buff Arches	4	20
Buff Ermine	7	33
Buff Footman	2	6
Burnished Brass	2	2
Cabbage Moth	1	1
<i>Caloptilia populetorum</i>	1	1
<i>Caloptilia semifascia*</i>	2	2
Campion	1	1
Canary-shouldered Thorn	2	2
<i>Carcina quercana</i>	3	3
<i>Catoptria pinella</i>	1	1
<i>Celypha lacunana</i>	15	75
<i>Celypha striana</i>	4	4
Chestnut	1	1
Chinese Character	9	18
Chocolate-tip	1	1
<i>Chrysosteuchia culmella</i>	9	138
Cinnabar	1	2
Clay	5	24
<i>Clepsia consimilana*</i>	1	1
<i>Clepsia spectrana*</i>	2	1
Clifden Nonpareil	1	1

Cloaked Minor	2	3
Clouded Border	7	14
Clouded Brindle	2	4
Clouded Silver	3	7
<i>Cnephasia conspersana*</i>	1	1
<i>Cochylimorpha straminea</i>	2	2
<i>Cochylis atricapitana</i>	6	7
<i>Cochylis hybridella*</i>	1	1
<i>Cochylis molliculana*</i>	2	2
<i>Coleophora spp.</i>	3	5
Common Carpet	17	42
Common Emerald	1	1
Common Footman	4	10
Common Lutestring	1	1
Common Marbled Carpet	6	6
Common Pug	2	6
Common Quaker	1	1
Common Rustic Agg.	9	84
Common Swift	7	63
Common Wainscot	23	634
Common White Wave	2	2
Convolvulus Hawk	2	3
Copper Underwing	1	1
<i>Coptotriche marginea</i>	7	18
Coronet	2	5
<i>Crambus perlella</i>	5	61
<i>Crambus silvella</i>	1	1
<i>Crassa unitella</i>	1	1
Crescent	2	3
<i>Cydia splendana</i>	2	3
<i>Cydia ulicetana*</i>	1	1
Dark Arches	10	542
Dark Marbled Carpet	1	1
Dark Spectacle	4	4
Dark Sword-grass	7	13
Dark-barred Twin-spot Carpet	2	5
Delicate	9	17
<i>Diamond-back</i>	15	56
Dingy Footman	3	54
<i>Dioryctria simplicella</i>	1	1
Dog's Tooth	1	1
<i>Dolicharthria punctalis</i>	1	1
Double-striped Pug	7	11
Drinker	4	9
Dun-bar	3	4
Dusky Brocade	1	2

Dusky Sallow	1	1
Dusky Thorn	3	4
Ear Spp.	1	1
Early Thorn	2	3
<i>Elachista argentella</i>	5	18
<i>Elachista atricomella</i>	7	13
Elephant Hawk	8	26
<i>Emmelina monodactyla</i>	1	1
<i>Endothenia marginana</i>	4	5
<i>Endotricha flammealis</i>	2	2
<i>Endrosis sarcitrella</i>	1	1
<i>Epiblema costipunctana*</i>	2	2
<i>Epinotia bilunana</i>	1	1
<i>Epinotia nisella</i>	2	4
<i>Epiphyas postvittana</i>	13	52
<i>Esperia sulphurella</i>	1	1
<i>Eucosma campolilana</i>	5	10
<i>Eucosma cana</i>	2	2
<i>Eucosma obumbratana</i>	1	1
<i>Eudonia angustea</i>	3	3
<i>Eudonia lacustrata</i>	3	13
<i>Eudonia mercurella</i>	2	9
<i>Eudonia pallida</i>	13	22
<i>Eupoecilia angustana</i>	7	14
<i>Evergestis limbata</i>	1	1
Eyed Hawk	2	2
Feathered Gothic	2	2
Feathered Ranunculus	3	6
Fern	2	2
Festoon	1	1
Flame	4	22
Flame Shoulder	13	46
Flounced Chestnut	1	1
Flounced Rustic	4	6
Fox Moth	1	2
Frosted Orange	3	4
Galium Carpet	3	3
Garden Carpet	2	2
Garden Tiger	5	13
Ghost	1	1
<i>Glyphipterix schoenicolella*</i>	1	1
<i>Glyphipteryx simpliciella</i>	1	1
<i>Glyphipteryx thrasonella*</i>	1	1
Grass Emerald	1	1
Green Carpet	10	62
Grey Arches	4	6

Grey Dagger	1	1
Grey Pine Carpet	2	2
Heart and Club	2	3
Heart and Dart	16	770
Hebrew Character	3	3
Hedge Rustic	1	2
<i>Hedya nubiferana</i>	3	4
<i>Hedya pruniana</i> *	5	6
<i>Helcystogramma rufescens</i>	2	3
<i>Hoffmanophila pseudospratella</i>	1	1
<i>Homoeosoma sinuella</i> *	1	1
Horse Chestnut	1	1
<i>Hypsopygia costalis</i>	1	1
Ingrailed Clay	7	26
Jersey Tiger	4	4
July Highflyer	2	2
Kent Black Arches	5	16
Knot Grass	5	8
Lackey	3	29
L-album Wainscot	10	28
Large Yellow Underwing	23	3,868
<i>Lathronympha strigana</i> *	4	4
Least Black Arches	3	4
Least Yellow Underwing	3	3
Lesser Broad-bordered Yellow Underwing	4	6
Lesser Yellow Underwing	7	11
Light Arches	5	24
Light Brocade	2	2
Light Emerald	5	6
Lime-speck Pug	1	1
<i>Lobesia abscisana</i>	2	3
Lobster	1	1
<i>Lozotaenia forsterana</i>	1	1
Lunar Underwing	6	37
Lunar-spotted Pinion	1	1
Magpie	1	2
Marbled Minor	4	10
Marbled White Spot	3	6
Mathew's Wainscot	1	1
May Highflyer	2	2
Merveille du Jour	1	1
<i>Metzneria lappella</i>	2	2
<i>Micropteryx aruncella</i> *	1	1
Middle-barred Minor	5	49
Miller	1	1

Minor agg.	5	67
<i>Mirificama mulinella</i>	1	1
<i>Monochroa cytisella</i>	1	1
<i>Monopis laevigella</i>	1	3
<i>Monopis weaverella</i>	6	11
<i>Mother of Pearl</i>	7	34
Mottled Beauty	1	1
Mottled Pug	1	2
Mottled Rustic	5	5
Mullein Wave	1	2
Muslin	1	1
<i>Myelois circumvoluta</i>	3	3
Narrow-winged Pug	1	2
<i>Nematopogon swammerdamella</i>	1	1
<i>Nemophora degeerella</i>	1	1
<i>Nephterix angustella</i>	1	1
<i>Nomophila noctuella</i>	4	10
<i>Notocelia rosaecolana*</i>	2	2
<i>Notocelia trimaculana</i>	2	14
<i>Notocelia uddmanniana</i>	7	18
Nutmeg	6	13
Nut-tree Tussock	2	3
Oak Eggar	1	1
Oak Hook-tip	3	3
<i>Oncocera semirubella</i>	1	1
Orange Footman	1	1
Orange Swift	5	20
<i>Ostrinia nubilalis</i>	2	7
<i>Pale Mottled Willow</i>	1	1
Pale Pinion	1	1
Pale Tussock	2	3
<i>Pandemis cerasana</i>	8	21
<i>Paraswammerdamia albicapitella*</i>	1	1
Peach Blossom	1	1
Peacock	1	1
Pearly Underwing	1	2
Pebble Prominent	2	2
<i>Pempelia genistella</i>	1	1
<i>Pempelia palumbella</i>	2	3
<i>Phyllonorycter messaniella</i>	1	2
Pine Carpet	1	1
Pine Hawk	3	4
<i>Platyedra subcinerea</i>	1	1
Poplar Hawk	7	11
Pretty Chalk Carpet	8	14
Privet Hawk	8	20

<i>Pseudagytratoza conwagana</i>	2	2
<i>Pseudoswammerdamia combinella</i>	2	2
<i>Ptocheuusa paupella</i>	1	1
Purple Bar	5	10
<i>Pyrausta aurata</i>	1	1
<i>Pyrausta despicata</i>	2	3
<i>Pyrausta purpuralis</i>	1	1
Red Twin-spot Carpet	7	13
Reddish Light Arches	1	1
Red-green Carpet	1	1
Red-line Quaker	1	1
Riband Wave	6	21
Rivulet	1	1
Rosy Footman	1	1
Rosy Rustic	5	17
Ruby Tiger	4	10
Rufous Minor	1	6
Rustic / Uncertain	8	70
Sallow	1	1
Sallow Kitten	2	2
Satellite	1	1
Satin Wave	1	1
Scalloped Oak	5	15
Scarce Footman	1	1
Scarlet Tiger	3	3
<i>Scoparia ambigualis</i>	1	3
<i>Scoparia pyralella</i>	3	14
Scorched Carpet	1	1
Scorched Wing	1	1
<i>Scrobipalpa ocellatella*</i>	1	1
<i>Scythropia crataegella</i>	1	1
September Thorn	1	1
Setaceous Hebrew Character	20	286
Shaded Pug	1	1
Shark	5	9
Sharp-angled Peacock	6	7
Shears	2	2
Short-cloaked Moth	5	7
Shoulder-striped Wainscot	2	5
Shuttle-shaped Dart	4	4
Silky Wainscot	1	2
Silver Y	13	111
Silver-ground Carpet	3	3
Single-dotted Wave	5	9
Slender Brindle	1	1
Slender Pug	1	1

Small Blood-vein	6	6
Small Clouded Brindle	1	1
Small Dotted Buff	1	1
Small Elephant Hawk	7	17
Small Emerald	1	3
Small Fan-foot	1	1
Small Fan-footed Wave	5	8
<i>Small Magpie</i>	2	2
Small Purple-barred	1	1
Small Seraphim	4	6
Small Square-spot	5	8
Small Wainscot	2	3
Small Waved Umber	3	4
Smoky Wainscot	6	61
Snout	11	17
Spectacle	9	13
<i>Spilonota ocellana*</i>	1	1
Spruce Carpet	1	1
Square-spot Rustic	9	85
Straw Dot	9	16
Straw Underwing	2	3
Swallow-tailed	4	12
<i>Swammerdamia pyrella</i>	1	1
<i>Synaphe punctalis</i>	2	11
<i>Syncopacma larseniella</i>	1	1
<i>Syndemis musculana</i>	2	4
<i>Tachystola acroxantha</i>	1	1
Tawny Marbled Minor	1	4
Tawny Shears	1	1
<i>Teleiodes vulgella*</i>	2	4
<i>Tinea simfulvella</i>	1	1
<i>Tinea trinotella</i>	1	1
Treble Brown Spot	3	4
Treble Lines	6	22
True Lover's Knot	3	6
Turnip	5	11
Twin-spot Carpet	1	1
<i>Udea ferrugalis</i>	5	7
<i>Udea fulvalis</i>	2	2
<i>Udea lutealis</i>	1	1
<i>Udea olivalis</i>	1	1
<i>Udea prunalis</i>	1	1
Vestal	1	1
Vine's Rustic	10	131
V-Pug	3	3
White Ermine	6	19

White Satin	1	1
White-line Dart	1	1
White-point	11	33
Willow Beauty	11	29
Wood Carpet	1	1
Wormwood Pug	1	1
Yellow Shell	2	2
Yellow-tail	1	2
<i>Yponomeuta evanymella</i>	1	1
<i>Ypsolopha scabrella</i>	3	3
<i>Zeiraphera isertana</i>	2	2

Holton Lee was chosen due to its proximity to the little-recorded Holton Heath and its variety of habitats, including woodland, wet woodland, heathland and reedbed.

MoPH trapped from August – October 2019 on six occasions, setting three Mercury Vapour (MV’s) traps and one ‘actinic’ (ultra-violet). We located ourselves along the new boardwalk near the hide and reedbed and in the woodland areas between the two bird hides. In 2019 we made more use of the Flourish Garden with its abundance of nectar sources.

In 2017 we trapped from August – October on 17 occasions and in 2018 from May – October on 19 occasions.

To date, MoPH has recorded 337 full species at Holton Lee (does not include aggregates). This includes species designated for their rarity. The designations are Nationally Scarce A or Notable A (recorded in 16 – 30 10km squares since 1980), Nationally Scarce B or Notable B (recorded from 31 – 100 10km squares since 1980) and Red Data Book (recorded from fewer than 15km squares in Britain). These are often shown in a ‘traffic light’ system with the rarest in Red for Red Data Book, Notable A as Amber and Notable B as Green. We have highlighted these in such a way in the table below and in Appendix 1. In general, micro-moths are in italics in Latin and macro moths use the common English name.

The most frequently encountered species was, not surprisingly the Large Yellow Underwing, which is common on all sites surveyed, seen on 31 of 42 trapping visits. This had a total abundance of 280 individuals. Following this was the Setaceous Hebrew Character, encountered on 21 out of 42 visits with a total abundance of 157.

NOTABLE SPECIES FOUND AT HOLTON LEE

Red Data Book	Notable A	Notable B
<i>Crambus silvella</i>	Four-spotted Footman	<i>Bactra robustana</i>
Southern Chestnut		<i>Crambus hamella</i>
		Cream-bordered Green Pea
		<i>Eudonia delunella</i>
		Horse Chestnut
		Kent Black Arches
		Mocha
		<i>Pediasia contaminella</i>
		<i>Pempelia genistella</i> *
		Purple-bordered Gold
		Rosy Wave
		Webb's Wainscot

SPECIES RECORDED AT HOLTON LEE THAT HAVE NOT BEEN RECORDED BY MoPH ELSEWHERE (23 SPECIES):

In an attempt to provide some local context to the species recorded at Holton Lee the following table presents a list of species that the Project has not recorded at other sites within the Harbour. It should be noted that coverage of Poole Harbour (on some 24 additional sites) has been far from exhaustive.

Species	Verified by:	Year found	No. of individuals found on no. of occasions
<i>Acleris kockiella</i>		2018	1/1
<i>Acleris literana</i>		2019	1/1
<i>Acrobasis suavella</i>	Dr Phil Sterling	2018	1/1
<i>Aleimma loeflingiana</i>		2018	1/1
<i>Bucculatrix ulmella</i>		2017	1/1
Bulrush Wainscot		2017	1/1
<i>Cataclysta lemnata</i>		2018	1/1
<i>Cnesphasia asseclana</i>	Dr Phil Sterling	2018	1/1
<i>Coleophora trifoli</i>	Dr Phil Sterling	2018	1/1
<i>Cosmopterix scribaiella</i>	Jack Oughton	2018	5/1
Devon Carpet		2018	1/1
<i>Elachista freyerella</i>	Dr Phil Sterling	2018	1/1
Flame Wainscot		2017 & 2018	5/4
Green Brindled Crescent		2018	1/1
<i>Gypsonoma dealbana</i>		2018	9/3
<i>Gypsonoma sociana</i>		2017	1/1
Marbled Beauty		2018	1/1
<i>Oegoconia caradji</i>	(May not be accepted)	2018	1/1
<i>Oegoconia deauratella</i>	(May not be accepted)	2018	1/1
<i>Phycitodes Saxicola</i>	Dr Phil Sterling	2018	2/2
<i>Prays fraxinella</i>		2018	1/1
Rosy Underwing	Les Evans-Hill	2017	1/1
<i>Ypsolopha parenthesesella</i>		2017	3/3

SECTION 41 SPECIES

In addition, 31 other species are included on Section 41 (S41) of the 2006 Natural Environment and Rural Communities Act. These species, designated to be "of principal importance for the purpose of conserving biodiversity" are those that are most threatened, in greatest decline, or where the UK

holds a significant proportion of the world's total population. These are included in the table below for completeness.

Common Name	Latin Name
Knot Grass	<i>Acronicta rumicis</i>
Autumnal Rustic	<i>Eugnorisma glareosa</i>
Beaded Chestnut	<i>Conistra rubiginea</i>
Blood-vein	<i>Timandra comae</i>
Broom Moth	<i>Melanchra pisi</i>
Buff Ermine	<i>Spilosoma luteum</i>
Centre-barred Sallow	<i>Atethmia centrago</i>
Cinnabar	<i>Tyria jacobaeae</i>
Crescent	<i>Celaena leucostigma</i>
Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>
Dusky Thorn	<i>Ennomos fuscantaria</i>
Feathered Gothic	<i>Tholera decimalis</i>
Garden Tiger	<i>Arctia caja</i>
Green-brindled Crescent	<i>Allophyes oxyacanthae</i>
Heath Rustic	<i>Xestia agathina</i>
Large Wainscot	<i>Rhizedra lutosa</i>
Mottled Rustic	<i>Caradrina morpheus</i>
Mouse Moth	<i>Amphipyra tragopoginis</i>
Mullein Wave	<i>Scopula marginepunctata</i>
Neglected Rustic	<i>Xestia castanea</i>
Oak Hook-tip	<i>Watsonalla binaria</i>
Oblique Carpet	<i>Orthonama vittata</i>
Rosy Rustic	<i>Hydraecia micacea</i>
Rustic	<i>Hoplodrina blanda</i>
Shoulder-striped Wainscot	<i>Mythimna comma</i>
Small Emerald	<i>Hemistola chrysoprasaria</i>
Small Phoenix	<i>Ecliptopera silaceata</i>
Small Square-spot	<i>Diarsia rubi</i>
White Ermine	<i>Spilosoma lubricipeda</i>
White-line Dart	<i>Euxoa tritici</i>
	<i>Coleophora trifoli</i>

SPECIES ACCOUNTS – Highlights

Acentria ephemerella – 30 individuals recorded on one occasion on the 1st July 2018. At the time, we were putting the actinic on the platform above the small heathland pond. This is a common species found around ponds and feeds on pondweeds. It was not recorded in 2019, but we did not start trapping until August and did not put the actinic above the pond.

Acleris hyemana – This is a target species for the Back from the Brink project for Purbeck Mason Wasp (*Pseudepipona herrichii*) and MoPH has trapped on Slepe Heath and Hartland Moor in pursuit of this species. It was recorded once at Holton Lee on the 13th May 2018. Although the Purbeck Mason Wasp (the parasitic wasp associated with *A. hyemana*) is not known on Holton Lee, it's good

to know that the micro-moth occurs on heathland sites where the wasp is not present. National status is 'Local', feeds on heathers.



Acleris literana – This species was the only new addition to the 2019 list of moths that has not been recorded elsewhere by the MoPH project. This stunning micro-moth blends in with green lichen and as such is known colloquially as the 'mini-merv' (a mini 'Merveille du jour'). Its national status is local and it feeds on oak.

Acleris literana

Photo credit: Gillian Nash, Dorset Moths.

Agriphila straminella – A common species for MoPH recorded on 14 out of 25 sites. As the flight season is June – August, none were recorded from August – October on Holton Lee in 2019, but this species was recorded 9 times during 2017 -18 with 162 individuals seen. Feeds on various short grasses.

Bactra robustana – There are four species of *Bactra*, and MoPH has found all four on the Poole Harbour sites visited. *B. lancealana* is common at Holton Lee as well as other sites, but *B. robustana* is Nationally Scarce B and was sent off to expert Dr Phil Sterling for verification. It was recorded once on 26th August 2017 at Holton Lee and once at Arne Moors. It is a rare and restricted coastal resident that feeds on sea club-rush.

Broad-bordered Bee Hawk – Recorded once at Holton Lee, by Paul Mitchell in 2019 and once at Hartland Moor. This Notable B moth feeds on honeysuckle and bedstraw.



Emperor – The iconic heathland moth feeds on woody plants including heathers, bramble and hawthorns. Its national status is common but is a scarce and restricted local resident and a joy to see. We tried using pheromones to attract the males at Holton Lee which worked. Recorded on 8 sites in Poole Harbour.

Emperor Moth

Leopard – Although its national status is common, it is uncommon in Dorset and has only been Recorded at Holton Lee and Arne Moors by MoPH. It feeds on woody plants and trees.

Leopard Moth



Mocha – A stunning Notable B moth that feeds on Field Maple. It is an uncommon and restricted resident in Dorset.

Mocha

Red-necked Footman – Its national status is local. MoPH have found this species at Holton Lee and Carey Estate in Wareham only. The larvae feed on lichens and algae on broad-leaved trees.

Red-necked Footman



Rosy Wave – A nationally scarce Notable B species that feeds on sea-beet. MoPH have recorded this species on 3 sites in Poole Harbour. It's been recorded 6 times at Holton Lee with 16 individuals seen.

Southern Chestnut – This Red Data Book 2 species is a 'very scarce and restricted recent colonist'. However, MoPH have found this species on seven of our sites so far and it appears to be spreading in distribution. Recorded twice at Holton Lee with four individuals found, but not recorded in 2018 or 2019. This is a late season species, flying in September and October and the larvae feed on heathers.

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Appendix 1: Full list of species recorded 2017 – 19

Species	Times recorded	Total number seen
<i>Acentria ephemerella</i>	1	30
<i>Acleris hyemana</i>	1	1
<i>Acleris kochiella</i>	1	1
<i>Acleris literana</i>	1	1
<i>Acleris notana</i>	2	4
<i>Agapeta hamana</i>	4	9
<i>Agriphila geniculea</i>	2	2
<i>Agriphila inquinatella</i>	2	3
<i>Agriphila latistria</i>	2	3
<i>Agriphila selasella</i>	6	8
<i>Agriphila straminella</i>	9	162
<i>Agriphila tristella</i>	15	76
<i>Aleimma loeflingiana</i>	1	1
<i>Anania lancealis</i>	1	1
<i>Anania perlucidalis</i>	1	1
Angle Shades	6	8
<i>Apotomis capreana</i>	2	3
<i>Apotomis turbidana</i>	2	3
<i>Argyresthia brockeella</i>	2	11
<i>Argyresthia goedartella</i>	6	34
<i>Aroga velocella</i>	2	6

Autumnal Rustic	4	4
<i>Bactra lancealana</i>	15	32
<i>Bactra robustana</i>	1	1
Barred Red	2	3
Beaded Chestnut	1	6
Beautiful Hook-tip	1	2
Beautiful Snout	1	1
Birch Mocha	2	2
Bird's Wing	1	1
Black Arches	9	44
Black Rustic	4	10
<i>Blastobasis adustella</i>	2	2
Blood-vein	4	8
Blotched Emerald	2	4
Bordered Beauty	1	1
<i>Brachmia blandella</i>	1	1
Bright-line Brown-eye	6	13
Brimstone	8	9
Brindled Green	2	2
Broad-bordered Bee Hawk**	1	1
Broad-bordered Yellow Underwing	11	17
Broom	1	1
<i>Brown China-mark</i>	9	14
Brown Silver-line	7	24
Brown-tail	1	3
Brown-veined Wainscot	1	9
Brussels Lace	4	6
<i>Bucculatrix ulmella</i>	1	1
Buff Arches	3	5
Buff Ermine	4	13
Buff Footman	5	12
Buff-tip	8	17
Bulrush Wainscot	1	1
Burnished Brass	2	2
<i>Calamatropha palludella</i>	6	11
<i>Caloptilia alchimiella</i>	2	2
<i>Caloptilia populetorum</i>	1	2
<i>Caloptilia robustella</i>	1	2
<i>Caloptilia stigmatella</i>	1	1
<i>Calybites phasianipennella*</i>	2	2
<i>Cameraria ohredella</i>	2	3
Canary-shouldered Thorn	11	15
<i>Carcina quercana</i>	5	5
<i>Cataclysta lemnata</i>	1	1
<i>Catoptria falsella</i>	2	2
<i>Catoptria pinella</i>	1	1

<i>Celypha lacunana</i>	16	49
<i>Celypha striana*</i>	2	2
Centre-barred Sallow	2	2
<i>Chilo phragmitella</i>	4	4
<i>Chrysosteuchia culmella</i>	6	59
Cinnabar	3	7
Clay	2	4
<i>Clepsia spectrana</i>	7	13
Cloaked Minor	1	1
Clouded Border	8	30
Clouded Brindle	1	1
Clouded Buff	1	1
Clouded Silver	3	3
<i>Cnesphasia asseclana*</i>	1	1
<i>Cochylimorpha straminea</i>	1	3
<i>Cochylis atricapitana</i>	7	17
<i>Cochylis nana</i>	1	1
<i>Coleophora trifoli*</i>	1	1
Common Carpet	9	15
Common Footman	5	6
Common Lutestring	1	1
Common Marbled Carpet	3	3
Common Rustic	8	26
Common Swift	3	7
Common Wainscot	18	38
Common Wave	7	11
Common White Wave	7	8
Convolvulus Hawk**	1	1
Copper Underwing	1	1
Coronet	3	6
<i>Cosmopterix scribaiella</i>	1	5
Coxcomb Prominent	1	1
<i>Crambus hamella</i>	3	3
<i>Crambus pascuella</i>	1	1
<i>Crambus perlella</i>	2	3
<i>Crambus silvella</i>	2	2
<i>Crassa unitella</i>	1	1
Cream Wave	1	1
Cream-bordered Green Pea	1	1
Crescent	2	2
<i>Cryptoblabes bistriga</i>	1	1
<i>Cydia splendana</i>	8	33
<i>Cydia ulicetana</i>	3	7
Dark Arches	6	17
Dark Chestnut	1	1
Dark Sword-grass	1	1

Dark-barred Twin-spot Carpet	1	1
Devon Carpet	1	1
<i>Diamond-back</i>	9	33
<i>Digitivalva pulicariae</i>	1	1
Dingy Footman	5	23
Dingy Shell	1	1
<i>Ditula angustoriana</i>	2	4
Dog's Tooth	2	2
<i>Donacaula forficella</i>	4	4
Dotted Clay	1	1
Double-striped Pug	13	21
Drinker	7	16
Dun-bar	3	7
Dusky Thorn	8	10
Ear spp.	3	5
<i>Elachista freyerella*</i>	1	1
Elephant Hawk	6	26
<i>Emmelina monodactyla</i>	1	1
Emperor**	1	1
<i>Endothenia quadrimaculana</i>	1	1
<i>Endotricha flammealis</i>	6	73
<i>Epiblema scutillana</i>	1	1
<i>Epigoge grotiana</i>	1	1
<i>Epinotia cruciana*</i>	1	1
<i>Epinotia ramella</i>	4	9
<i>Epiphyas postvittana</i>	7	14
<i>Eucosma cana</i>	2	2
<i>Eudonia angustea</i>	4	10
<i>Eudonia delunella</i>	3	11
<i>Eudonia lacustrata</i>	3	4
<i>Eudonia mercurella</i>	13	27
<i>Eudonia pallida</i>	17	44
<i>Eudonia truncicolella</i>	6	9
<i>Eupoecilia angustana</i>	1	1
<i>Euzophera pinguis</i>	1	2
<i>Evergestis forficalis</i>	1	1
<i>Evergestis limbata**</i>	1	1
Eyed Hawk	3	3
Fan-foot	3	4
Feathered Gothic	4	8
Fen Wainscot	5	18
Flame	1	1
Flame Shoulder	20	56
Flame Wainscot	4	5
Flounced Rustic	10	21
Four-dotted Footman	3	8

Four-spotted Footman	3	3
Fox Moth	2	3
Foxglove Pug	1	1
Frosted Orange	5	5
Garden Carpet	1	1
Garden Tiger	2	3
Gold Spot	8	19
Gold Swift	4	5
Grass Emerald	2	2
Great Prominent	1	1
Green Carpet	12	27
Green Silver-lines	1	2
Green-brindled Crescent	1	1
Grey Dagger	1	1
Grey Pine Carpet	9	17
<i>Gypsonoma dealbana</i>	3	9
<i>Gypsonoma sociana</i>	1	1
Heart and Dart	12	24
Heath Rustic	1	1
<i>Hedya pruniana</i>	1	1
<i>Hofmannophila pseudospretella</i>	2	3
Horse Chestnut	1	1
<i>Hypsopygia costalis</i>	3	6
Ingrailed Clay	1	1
Iron Prominent	7	10
July Belle	1	1
Kent Black Arches	1	1
Knot Grass	2	3
Large Emerald	1	1
Large Wainscot	4	6
Large Yellow Underwing	31	280
Least Black Arches	2	2
Least Yellow Underwing	2	2
Leopard	2	2
Lesser Broad-bordered Yellow Underwing	9	25
Lesser Cream Wave	1	1
Lesser Swallow Prominent	6	9
Lesser Yellow Underwing	8	8
Light Emerald	12	25
Lilac Beauty	1	1
Lime-speck Pug	3	4
<i>Limnaecia phragmitella</i>	1	2
<i>Lobesia abscisana</i>	2	2
Lobster	1	1
<i>Lozotonioides formosana</i>	4	5
Lunar Underwing	5	16

Maiden's Blush	8	14
Marbled Beauty	1	1
Marbled Brown	1	2
Marbled White-spot	7	34
Merveille du Jour	1	2
Middle-barred Minor	2	2
<i>Mirificama mulinella</i>	3	3
Mocha	1	1
<i>Monochroa cytisella</i>	3	16
Mother of Pearl	6	23
Mottled Pug	1	1
Mottled Rustic	2	4
Mouse Moth	2	2
Mullein Wave	2	3
Muslin	2	5
Narrow-winged Pug	1	1
Neglected Rustic	4	5
<i>Nematopogon swammerdamella</i>	1	1
<i>Nomophila noctuella</i>	2	2
<i>Notocelia uddmanniana</i>	2	3
Nutmeg	1	1
Nut-tree Tussock	2	5
Oak Eggar	1	1
Oak Hook-tip	9	18
Oblique Carpet	4	5
Obscure Wainscot	2	3
Ochreous Pug	1	1
<i>Oecogonia caradji</i>	1	1
<i>Oecogonia deauratella</i>	1	1
Orange Footman	1	1
Orange Swift	16	33
<i>Ostrinia nubilalis</i>	1	1
Pale Mottled Willow	1	1
Pale Tussock	4	7
<i>Pandemis cerasana</i>	4	5
<i>Pandemis corylana</i>	6	8
Peach Blossom	1	1
Peacock	2	3
Pearly Underwing	1	1
Pebble Hook-tip	3	3
Pebble Prominent	7	7
<i>Pediasia contaminella</i>	1	2
<i>Pempelia genistella*</i>	3	3
<i>Pempelia palumbella</i>	4	6
Peppered	2	2
<i>Phycitodes saxicola*</i>	2	2

<i>Phyllonorycter messaniella</i>	2	2
Pine Carpet	5	7
Pine Hawk	1	1
Pinion-streaked Snout	10	15
Pink-barred Sallow	3	3
Plain Wave	2	2
Poplar Hawk	6	8
Poplar Kitten	1	1
<i>Prays fraxinella</i>	1	1
Privet Hawk	1	1
<i>Pseudoswammerdamia combinella</i>	1	1
Purple Bar	1	1
Purple Thorn	2	2
Purple-bordered Gold	1	1
<i>Pyrausta aurata</i>	1	2
<i>Pyrausta despicata</i>	1	1
Red Twin-spot Carpet	1	1
Red-necked Footman	1	1
<i>Rhyacionia pinicolana</i>	1	1
<i>Rhyacionia pinivorana</i>	1	1
Riband Wave	6	22
<i>Ringed China-mark</i>	2	6
Rosy Footman	8	23
Rosy Rustic	6	6
Rosy Underwing	1	1
Rosy Wave	6	16
Round-winged Muslin	4	9
Ruby Tiger	10	23
Rufous Minor	1	1
Rustic / Uncertain	4	26
Sallow Kitten	1	1
Satin Wave	2	2
Scallop Shell	1	1
Scalloped Hook-tip	9	12
Scarce Footman	9	13
<i>Schoenobius gigantella</i>	1	1
<i>Scoparia ambigualis</i>	2	3
<i>Scoparia basistrigalis</i>	2	3
Scorched Wing	2	3
Setaceous Hebrew Character	21	157
Sharp-angled Peacock	6	13
Short-cloaked Moth	1	1
Shoulder-striped Wainscot	1	1
Shuttle-shaped Dart	7	7
Silky Wainscot	3	6
Silver Y	3	12

Single-dotted Wave	5	9
Six-striped Rustic	7	18
Slender Brindle	2	2
Small Angle Shades	2	2
Small Blood-vein	2	2
Small China-mark	13	26
Small Emerald	1	1
Small Fan-footed Wave	5	7
Small Magpie	3	3
Small Phoenix	1	1
Small Purple-barred	1	1
Small Rufous	6	8
Small Seraphim	5	7
Small Square-spot	4	6
Small Wainscot	19	46
Small Yellow Wave	1	1
Smoky Wainscot	5	37
Snout	10	18
Southern Chestnut	2	4
Southern Wainscot	8	26
Spectacle	8	18
Square-spot Rustic	11	40
Straw Dot	15	43
Striped Wainscot	2	5
<i>Swammerdamia pyrella</i>	1	1
<i>Synaphe punctalis</i>	5	14
<i>Tachystola acroxantha</i>	8	10
Tawny-barred Angle	9	11
<i>Teleiopsis diffinis</i>	1	5
<i>Tortrix viridana</i>	2	3
Treble Brown Spot	1	1
Treble Lines	1	1
True Lover's Knot	5	14
Turnip	2	2
<i>Twenty-plume</i>	1	1
Twin-spotted Wainscot	1	5
<i>Udea ferrugalis</i>	2	2
Vapourer	1	1
Vine's Rustic	8	39
Webb's Wainscot	2	2
White Ermine	4	14
White-line Dart	1	1
White-point	9	13
Willow Beauty	3	3
Yellow-line Quaker	3	4
Yellow-tail	1	1

<i>Yponomeuta evonymella</i>	3	7
<i>Ypsolopha dentella</i>	2	2
<i>Ypsolopha parenthesesella</i>	3	3
<i>Acrobasis suavella*</i>	1	1
<i>Cochylis molliculana*</i>	1	1