

# Butterflies and Moths of Harper's Island Wetlands



2020

## Introduction

Harper's Island Wetlands (HIW) nature reserve, situated close to the village of Glounthaune on the north shore of Cork Harbour is well known for its birds, many of which come from all over northern Europe and beyond, but there is a lot more to the wildlife at the HIW nature reserve than birds. One of our goals is to find out as much as we can about all aspects of life, both plant and animal, that live or visit HIW. This is a report on the butterflies and moths of HIW.

## Butterflies

After birds, butterflies are probably the one of the best known flying creatures. While there has been no structured study of them on at HIW, 17 of Ireland's 33 resident and regular migrant species of Irish butterflies have been recorded. Just this summer we added the Comma butterfly to the island list. A species spreading across Ireland in recent years possibly in response to climate change. Hopefully we can set up regular monitoring of the butterflies at HIW in the next couple of years.

### ***Butterfly Species Recorded at Harper's Island Wetlands up to September 2020.***

<i>Colias croceus</i>	Clouded Yellow
<i>Pieris brassicae</i>	Large White
<i>Pieris rapae</i>	Small White
<i>Pieris napi</i>	Green-veined White
<i>Anthocharis cardamines</i>	Orange-tip
<i>Lycaena phlaeas</i>	Small Copper
<i>Polyommatus icarus</i>	Common Blue
<i>Celastrina argiolus</i>	Holly Blue
<i>Vanessa atalanta</i>	Red Admiral
<i>Vanessa cardui</i>	Painted Lady
<i>Aglais io</i>	Peacock
<i>Aglais urticae</i>	Small Tortoiseshell
<i>Polygonia c-album</i>	Comma
<i>Speyeria aglaja</i>	Dark-green Fritillary
<i>Pararge aegeria</i>	Speckled Wood
<i>Maniola jurtina</i>	Meadow Brown
<i>Aphantopus hyperantus</i>	Ringlet

## Moths

One group of insects that are rarely seen by visitors to HIW is the moths. The reason for this is almost all are only active after dark. In 2019 moth expert Ken Bond visited HIW and as far as we know surveyed the moths for the first time at HIW on the night of the 30<sup>th</sup> June. This summer (2020) we decided to try and find out a bit more about this seldom seen group at Harper's Island Wetlands.

To do this we had to trap them and for this you have to have a license from the National Parks and Wildlife Service. One of the best methods to catch them is to use a bright light. Most of you will have seen a moth flying around a light. Studies have shown that the light from an actinic bulb is very good for attracting them. Some of you might be familiar with the bluish light that you might see in a butcher shop, which is an actinic bulb. Unlike that used there our traps do not kill the moths and all are released unharmed after identification. For our survey we mainly used a trap with a 6w actinic bulb, called a Heath Trap, which is a small trap but catches enough moths to keep you busy for an hour or two just after dawn. We occasional used both a 6 watt and a 12 watt trap. The traps were placed in a variety of habitats at HIW because many moths lay their eggs on particular plants on which their caterpillars will feed, found in particular habitats. Using bigger traps with brighter lights increases the possibility of finding more species.



***6w Actinic Heath Trap.***

The way the trap works is the light is placed over a funnel on a box. When the moths fly to the light they bump into vertical partitions around the light and then fly into the dark box through the bottom of the funnel. In the box we have lots of egg cartons and the moths then hide and rest under the cartons. The following morning we are able to carefully remove the egg cartons and identify the moths. Luckily almost all just remain on the cartons and do not fly away. Warm and calm nights are the best for trapping moths, they don't like flying when it is cold, as this requires more energy. No surprise then that more moths fly during the warmest months (June/July/August) than at any other time of the year. Different moth species only emerge as adults at different times of the year and may live as adults for as little as two weeks so trapping was carried out over a number of months to maximise our chances of catching as many species as possible.



***Mike O'Sullivan examining a big catch of moths at Harper's Island 29<sup>th</sup> July 2020.***



***Derry Delany, wearing his Covid mask, releasing a moth at Harper's Island, 29<sup>th</sup> July 2020.***



For our first year we did very well with 675 moths of 120 different species identified. We are sure that we will add many more to the list in the coming years.



*A nice variety of moths in the trap (18<sup>th</sup> August 2020)*

When most people think of moths they think of dull brown insects. That perception could not be further from the truth. Moths are some of the most colourful and intricately patterned insects in Ireland and Harper's Island Wetlands is home to a great variety from micro-moths that would fit comfortably on a one cent coin to one of the biggest flying insects in northern Europe, the Poplar Hawk Moth. We were lucky to catch colourful moths like the Garden Tiger and the Canary-shouldered Thorn moth. A few moth species are day-flying and if you have visited HIW during the summer you might have seen the stunning Six-spot Burnet moth. You might have seen the caterpillar of the Cinnabar moth, which loves Ragwort and wears the 'black and amber' county colours of Kilkenny. Many moths are masters of disguise, allowing them to sit still during the day, blending with their surrounds like the leaf-like Angle Shades or the twig-like Buff-tip. You might be surprised to know that Harper's Island Wetlands also plays host to migrant moths, some flying all the way from southern Europe, such as the Silver Y and the Black Rustic.

## Some of the moths of Harper's Island Wetlands.



Micro moth species



Poplar Hawkmoth



Garden Tiger



Angle Shades



Canary-shouldered Thorn



Brimstone Moth



Silver Y



Six-spot Burnet

From our studies this summer we have discovered that the HIW nature reserve is very important for the nationally scarce Dog's Tooth moth. So called because of the tooth-like pattern on its wings. As you can see from the map below, it is extremely rare in Cork and Munster and nowhere common in Ireland.

### 73.266 Dog's Tooth (*Lacanobia suasa*)

Status: Scarce

IUCN: Near Threatened

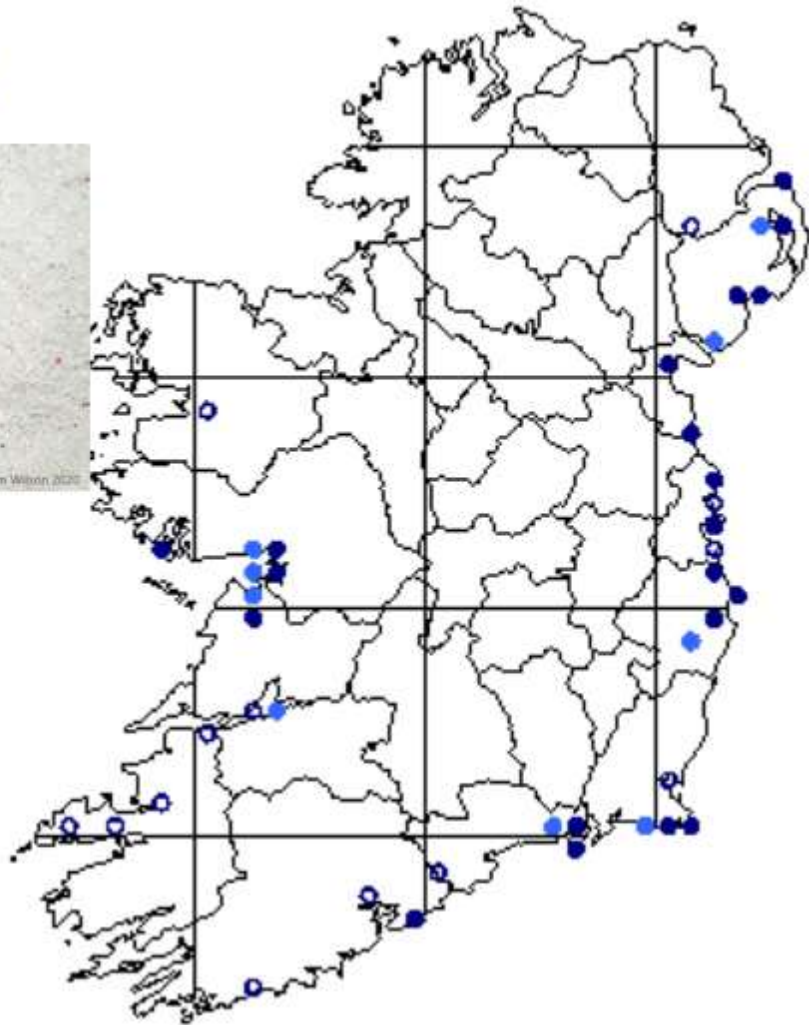


● 2010 to date

● 2000 to 2009

○ Pre-2000

Updated 31 Jul 2020



*Map from the Moths Ireland website.*

It is only by carrying out surveys like this summer's moth survey that we learn more and more about the amazing wildlife on our doorstep which in turn informs up on how best we can protect these moths and all the amazing plant and animal life to be found at Harper's Island Wetlands. We hope to continue this survey in the coming years.

**You can see the results of each night's survey in Appendix 1 at the end of this report.**

## A list of the Moths of Harper's Island (updated November 2020)

<b>Species name</b>	<b>Common name</b>
<i>Caloptilia stigmatella</i>	White-triangle Slender
<i>Aspilapterix tringipennella</i>	Ribwort Slender
<i>Carcina quercana</i>	Long-horned Flat-body
<i>Agonopterix heracliana</i>	Common Flat-body
<i>Depressaria radiella</i>	Parsnip Moth
<i>Depressaria badiella</i>	Brown Flat-body
<i>Depressaria badiella</i>	Brown Flat-body
<i>Helcystogramma rufescens</i>	Orange Crest
<i>Batrachedra praengusta</i>	None
<i>Coleophora sp.</i>	None
<i>Elachista atricomella</i>	Black-headed Dwarf
<i>Mompha subbistrigella</i>	Garden Mompha
<i>Blastobasis adustella</i>	Dingy Dowd
<i>Emmelina monodactyla</i>	Common Plume
<i>Archips podana</i>	Large Fruit-tree Tortrix
<i>Pandemis cerasana</i>	Barred Fruit-tree Tortrix
<i>Pandemis heparana</i>	Dark Fruit-tree Tortrix
<i>Acleris laterana</i>	Dark-triangle Button
<i>Acleris emargana/effractana</i>	Notch Wing Tortrix/Hook-winged Tortrix
<i>Acleris variegana</i>	Garden Rose Tortrix
<i>Cochylis atricapitana</i>	Black-headed Conch
<i>Celypha Lacunana</i>	Common Marble
<i>Endothenia marginana</i>	Bordered Marble
<i>Ancylis badiana</i>	Common Roller
<i>Epinotia nisella</i>	Grey Poplar Bell
<i>Gypsonoma dealbana</i>	Common Cloaked Shoot
<i>Notocelia uddmanniana</i>	Bramble shoot Moth
<i>Cnephasia sp.</i>	None
<i>Zygaena filipendulae</i>	Six-spot Burnet
<i>Aphomia sociella</i>	Bee Moth
<i>Phycita roborella</i>	Dotted Oak Knot-horn
<i>Acrobasis advenella</i>	Grey Knot-horn
<i>Myelois circumvoluta</i>	Thistle Ermine
<i>Anania coronata</i>	Elder Pearl
<i>Pleuroptya ruralis</i>	Mother of Pearl
<i>Eudonia Lacustrata</i>	Little Grey
<i>Eudonia angustea</i>	Narrow-winged Grey
<i>Chrysoteuchia culmella</i>	Garden Grass Veneer
<i>Crambus perlella</i>	Satin Grass-veneer
<i>Agriphila tristella</i>	Common Grass-veneer
<i>Agriphila geniculea</i>	Elbow-stripe Grass-veneer
<i>Thyatira batis</i>	Peach Blossom

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<i>Idaea dimidiata</i>	Single-dotted Wave
<i>Idaea biselata</i>	Small Fan-foot Wave
<i>Idaea aversata</i>	Riband Wave
<i>Timandra comae</i>	Blood-vein
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar
<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-spot Carpet
<i>Xanthorhoe designata</i>	Flame Carpet
<i>Camptogramma bilineata</i>	Yellow Shell
<i>Epirrhoe alternata</i>	Common Carpet
<i>Hydriomena furcata</i>	July Highflyer
<i>Ecliptopera silaceata</i>	Small Phoenix
<i>Dysstroma truncata</i>	Common Marbled Carpet
<i>Colostygia pectinataria</i>	Green Carpet
<i>Perizoma bifaciata</i>	Barred Rivulet
<i>Gymnoscelis rufifasciata</i>	Double Striped Pug
<i>Chloroclystis v-ata</i>	V-Pug
<i>Aplocera plagiata</i>	Treble-bar
<i>Lomaspilis marginata</i>	Clouded Border
<i>Opisthograptis luteolata</i>	Brimstone Moth
<i>Ennomos alniaria</i>	Canary-shouldered Thorn
<i>Selenia dentaria</i>	Early Thorn
<i>Crocallis elinguaris</i>	Scalloped Oak
<i>Peribatodes rhomboidaria</i>	Willow Beauty
<i>Alcis repandata</i>	Mottled Beauty
<i>Cabera exanthemata</i>	Common Wave
<i>Notodonta ziczac</i>	Pebble Prominent
<i>Phalera bucephala</i>	Buff-tip
<i>Scoliopteryx libatrix</i>	Herald
<i>Rivula sericealis</i>	Straw Dot
<i>Hypena proboscidalis</i>	The Snout
<i>Spilosoma lutea</i>	Buff Ermine
<i>Spilosoma lubricipeda</i>	White Ermine
<i>Phragmatobia fuliginosa</i>	Ruby Tiger
<i>Arctia caja</i>	Garden Tiger
<i>Tyria jacobaeae</i>	The Cinnabar
<i>Schrankia costaestrigalis</i>	Pinion-streaked Snout
<i>Diachrysia chrysitis</i>	Burnished Brass
<i>Autographa gamma</i>	Silver Y
<i>Plusia festucae</i>	Gold Spot
<i>Deltote pygarga</i>	Marbled White Spot
<i>Caradrina morpheus</i>	Mottled Rustic
<i>Hoplodrina alsines/octogenaria</i>	Uncertain
<i>Hoplodrina blanda</i>	The Rustic
<i>Charanyca trigrammica</i>	Treble Lines
<i>Phlogophora meticulosa</i>	Angle Shades

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<i>Euplexia lucipara</i>	Small Angle Shades
<i>Hydraecia micacea</i>	Rosy Rustic
<i>Luperina testacea</i>	Flounced Rustic
<i>Denticucullus pygmina</i>	Small Wainscot
<i>Apamea remissa</i>	Dusky Brocade
<i>Apamea monoglypha</i>	Dark Arches
<i>Apamea lithoxyloa</i>	Light Arches
<i>Mesapamea secalis</i>	Common Rustic agg.
<i>Mesoligia furuncula</i>	Cloaked Minor
<i>Cosmia trapezina</i>	Dun-bar
<i>Aporophyla nigra</i>	Black Rustic
<i>Lacanobia suasa</i>	Dog's Tooth
<i>Lacanobia oleracea</i>	Bright-line Brown-eye
<i>Sideridis rivularis</i>	Campion
<i>Mythimna impura</i>	Smoky Wainscot
<i>Mythimna ferrago</i>	The Clay
<i>Leucania comma</i>	Shoulder-striped Wainscot
<i>Agrotis exclamationis</i>	Heart & Dart
<i>Agrotis segetum</i>	Turnip Moth
<i>Agrotis ipsilon</i>	Dark Sword-grass
<i>Axylia putris</i>	The Flame
<i>Ochropleura plecta</i>	Flame-shoulder
<i>Diarsia rubi</i>	Small Square-spot
<i>Noctua pronuba</i>	Large Yellow Underwing
<i>Noctua comes</i>	Lesser Yellow Underwing
<i>Noctua interjecta</i>	Least Yellow Underwing
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing
<i>Graphiphora augur</i>	Double Dart
<i>Xestia xanthographa</i>	Square-spot Rustic
<i>Xestia sexstrigata</i>	Six-striped Rustic
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character
<i>Xestia triangulum</i>	Double Square-spot

## Top 20 most abundant moths at Harper's Island Wetlands in 2020.

Rank	Latin Name	English Name
1	<i>Noctua pronuba</i>	Large Yellow Underwing
2	<i>Xestia xanthographa</i>	Square-spot Rustic
3	<i>Mesapamea secalis/didyma</i>	Common Rustic agg.
4	<i>Mythimna impura</i>	Smoky Wainscot
5	<i>Diarsia rubi</i>	Small Square-spot
6	<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing
7	<i>Xestia c-nigrum</i>	Setaceous Hebrew Character
8	<i>Epinotia nisella</i>	Grey Poplar Bell
9	<i>Celypha Lacunana</i>	Common Marble
10	<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar
11	<i>Noctua comes</i>	Lesser Yellow Underwing
12	<i>Idaea aversata</i>	Riband Wave
13	<i>Luperina testacea</i>	Flounced Rustic
14	<i>Hydraecia micacea</i>	Rosy Rustic
15	<i>Autographa gamma</i>	Silver Y
16	<i>Chrysoteuchin culmella</i>	Garden Grass-veneer
17	<i>Idaea dimidiata</i>	Single-dotted Wave
18	<i>Rivula sericealis</i>	Straw Dot
19	<i>Schrankia costaestrigalis</i>	Pinion-streaked Snout
20	<i>Crambus perlella</i>	Satin Grass-veneer

**For more information on the moths in this report check out:**

<http://www.mothsireland.com/find-your-moth/>

**For more information on Harper's Island Wetlands check out:**

<http://birdwatchcork.com/about-harpers/>

### Acknowledgements

I would like to thank Ken Bond and Mike O'Sullivan for helping with the survey and Derry Delany for his support.

**Jim Wilson, December 2020**

# Appendix 1

30<sup>th</sup> June 2019

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Caloptilia stigmatella</i>	none	1
<i>Depressaria radiella</i>	Parsnip Moth	n/s
<i>Archips podana</i>	Large Fruit-tree Tortrix	1
<i>Pandemis cerasana</i>	Barred Fruit-tree Tortrix	2
<i>Celypha lacunana</i>	Common Marble	1
<i>Notocelia uddmanniana</i>	Bramble Shoot Moth	2
<i>Notocelia uddmanniana</i>	Bramble Shoot Moth	2
<i>Zygaena filipendulae</i>	Six-spot Burnet	1
<i>Zygaena filipendulae</i>	Six-spot Burnet	2
<i>Aphantopus hyperantus</i>	Ringlet	3
<i>Maniola jurtina</i>	Meadow Brown	1
<i>Polyommatus icarus</i>	Common Blue	1
<i>Aphomia sociella</i>	Bee Moth	1
<i>Myelois circumvoluta</i>	Thistle Ermine	1
<i>Myelois circumvoluta</i>	Thistle Ermine	1
<i>Chrysoteuchia culmella</i>	Garden Grass Veneer	4
<i>Chrysoteuchia culmella</i>	Garden Grass Veneer	3
<i>Thyatira batis</i>	Peach Blossom	1
<i>Idaea dimidiata</i>	Single-dotted Wave	1
<i>Idaea aversata</i>	Riband Wave	3
<i>Idaea aversata</i>	Riband Wave	1
<i>Timandra comae</i>	Blood-vein	1
<i>Camptogramma bilineata</i>	Yellow Shell	3
<i>Hydriomena furcata</i>	July Highflyer	1
<i>Hydriomena furcata</i>	July Highflyer	1
<i>Opisthograptis luteolata</i>	Brimstone Moth	1
<i>Alcis repandata</i>	Mottled Beauty	3
<i>Alcis repandata</i>	Mottled Beauty	1
<i>Cabera exanthemata</i>	Common Wave	1
<i>Notodonta ziczac</i>	Pebble Prominent	1
<i>Phalera bucephala</i>	Buff-tip	2
<i>Spilosoma lutea</i>	Buff Ermine	2
<i>Spilosoma lutea</i>	Buff Ermine	2
<i>Spilosoma lubricipeda</i>	White Ermine	1
<i>Tyria jacobaeae</i>	The Cinnabar	4
<i>Deltote pygarga</i>	Marbled White Spot	1
<i>Caradrina morpheus</i>	Mottled Rustic	6
<i>Hoplodrina octogenaria</i>	Uncertain	2
<i>Hoplodrina octogenaria</i>	Uncertain	1
<i>Charanyca trigrammica</i>	Treble Lines	1
<i>Euplexia lucipara</i>	Small Angle Shades	1
<i>Apamea remissa</i>	Dusky Brocade	1
<i>Apamea monoglypha</i>	Dark Arches	2



**30<sup>th</sup> June continued**

<i>Apamea lithoxyloa</i>	Light Arches	1
<i>Mesapamea secalis</i>	Common Rustic	1
<i>Lacanobia oleracea</i>	Bright-line Brown-eye	4
<i>Mythimna ferrago</i>	The Clay	1
<i>Leucania comma</i>	Shoulder-striped Wainscot	1
<i>Agrotis exclamatoris</i>	Heart & Dart	5
<i>Agrotis exclamatoris</i>	Heart & Dart	3
<i>Axylia putris</i>	The Flame	1
<i>Ochropleura plecta</i>	Flame-shoulder	1
<i>Noctua pronuba</i>	Large Yellow Underwing	2
<i>Noctua pronuba</i>	Large Yellow Underwing	1
<i>Graphiphora augur</i>	Double Dart	2
<i>Xestia triangulum</i>	Double Square-spot	3

**20<sup>th</sup> July 2020**

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Idaea biselata</i>	Small Fan-foot Wave	2
<i>Caradrina morpheus</i>	Mottled Rustic	1
<i>Apamea monoglypha</i>	Dark Arches	1
<i>Chloroclystis v-ata</i>	V-Pug	1
<i>Selenia dentaria</i>	Early Thorn	1
<i>Mythimna impura</i>	Smoky Wainscot	3
<i>Notocelia uddmanniana</i>	Bramble shoot Moth	1
<i>Gypsonoma dealbana</i>	Common Cloaked Shoot	1
<i>Perizoma bifaciata</i>	Barred Rivulet	1
<i>Phycita roborella</i>	Dotted Oak Knot-horn	1
<i>Bactrachedra praengusta</i>	none	1
<i>Cnephasia sp.</i>	none	1
<i>Graphiphora augur</i>	Double Dart	1
<i>Acleris variegana</i>	Garden Rose Tortrix	1
<i>Mesapamea secalis agg</i>	Common Rustic agg.	9
<i>Idaea aversata</i>	Riband Wave	9
<i>Crocallis elinguaris</i>	Scalloped Oak	1
<i>Idaea dimidiata</i>	Single-dotted Wave	4
<i>Hoplodrina alsines</i>	Uncertain	3
<i>Noctua pronuba</i>	Large Yellow Underwing	5
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	1
<i>Autographa gamma</i>	Silver Y	1
<i>Hydriomena furcata</i>	July High Flyer	1
<i>Myelois circumvoluta</i>	Thistle Ermine	1
<i>Agriphilia tristella</i>	Common Grass-veneer	1
<i>Anania coronata</i>	Elder Pearl	1

29<sup>th</sup> July 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Acleris variegana</i>	Garden Rose Tortrix	2
<i>Acrobasis advenella</i>	Grey Knot-horn	1
<i>Agonopterix heracliiana</i>	Common Flat-body	1
<i>Agrotis ipsilon</i>	Dark Sword-grass	1
<i>Alcis repandata</i>	Mottled Beauty	1
<i>Apamea monoglypha</i>	Dark Arches	1
<i>Arctia caja</i>	Garden Tiger	3
<i>Aspilapterix tringipennella</i>	Ribwort Slender	1
<i>Autographa gamma</i>	Silver Y	1
<i>Chrysoteuchin culmella</i>	Garden Grass-veneer	3
<i>Coleophora sp.</i>	none	1
<i>Cosmia trapezina</i>	Dun-bar	3
<i>Crambus perlella</i>	Satin Grass-veneer	7
<i>Crocallis elinguaris</i>	Scalloped Oak	1
<i>Diachrysia chrysitis</i>	Burnished Brass	3
<i>Ecliptopera silaceata</i>	Small Phoenix	1
<i>Elachista atricomella</i>	Black-headed Dwarf	3
<i>Endothenia marginana</i>	Bordered Marble	1
<i>Eudonia Lacustrata</i>	Little Grey	2
<i>Helcystogramma rufescens</i>	Orange Crest	3
<i>Hoplodrina octogenaria/blanda</i>	Uncertain/Rustic	3
<i>Hydriomena furcata</i>	July Highflyer	1
<i>Hypena proboscidalis</i>	The Snout	1
<i>Idaea aversata</i>	Riband Wave	1
<i>Idaea biselata</i>	Small Fan-foot Wave	6
<i>Idaea dimidiata</i>	Single-dotted Wave	5
<i>Lomaspilis marginata</i>	Clouded Border	3
<i>Luperina testacea</i>	Flounced Rustic	1
<i>Mesapamea secalis/didyma</i>	Common Rustic agg.	9
<i>Mythimna ferrago</i>	Clay	1
<i>Mythimna impura</i>	Smoky Wainscot	13
<i>Noctua comes</i>	Lesser Yellow Underwing	1
<i>Noctua interjecta</i>	Least Yellow Underwing	2
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	2
<i>Noctua pronuba</i>	Large Yellow Underwing	9
<i>Pandemis heparana</i>	Dark Fruit-tree Tortrix	1
<i>Peribatodes rhomboidaria</i>	Willow Beauty	5
<i>Perizoma bifaciata</i>	Barred Rivulet	1
<i>Phycita roborella</i>	Dotted Oak Knot-horn	1
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	10
<i>Sideridis rivularis</i>	Campion	1
<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-spot Carpet	1
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	1

10<sup>th</sup> August 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Peribatodes rhomboidaria</i>	Willow Beauty	1
<i>Mythimna impura</i>	Smoky Wainscot	13
<i>Noctua pronuba</i>	Large Yellow Underwing	8
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	4
<i>Apamea monoglypha</i>	Dark Arches	1
<i>Noctua comes</i>	Lesser Yellow Underwing	4
<i>Mesapamea secalis/didyma</i>	Common Rustic agg.	3
<i>Luperina testacea</i>	Flounced Rustic	1
<i>Noctua interjecta</i>	Least Yellow Underwing	4
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	3
<i>Phragmatobia fuliginosa</i>	Ruby Tiger	2
<i>Xestia sexstrigata</i>	Six-striped Rustic	9
<i>Ochropleura plecta</i>	Flame Shoulder	1
<i>Xestia xanthographa</i>	Square-spot Rustic	6
<i>Scoliopteryx libatrix</i>	Herald	1
<i>Agrotis segetum</i>	Turnip Moth	2
<i>Camptogramma bilineata</i>	Yellow Shell	1
<i>Aplocera plagiata</i>	Treble-bar	1
<i>Cochylis atricapitana</i>	Black-headed Conch	1
<i>Emmelina monodactyla</i>	Common Plume	1
<i>Rivula sericealis</i>	Straw Dot	2
<i>Agriphilia tristella</i>	Common Grass-veneer	1
<i>Elachista atricomella</i>	Black-headed Dwarf	1
<i>Perizoma bifaciata</i>	Barred Rivulet	1
<i>Lacanobia suasa</i>	Dog's Tooth	3

18<sup>th</sup> August 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	9
<i>Noctua pronuba</i>	Large Yellow Underwing	6
<i>Autographa gamma</i>	Silver Y	6
<i>Mesapamea secalis/didyma</i>	Common Rustic agg.	5
<i>Diarsia rubi</i>	Small Square-spot	5
<i>Denticucullus pygmina</i>	Small Wainscot	4
<i>Noctua comes</i>	Lesser Yellow Underwing	3
<i>Schrankia costaestrigalis</i>	Pinion-streaked Snout	3
<i>Xestia xanthographa</i>	Square-spot Rustic	3
<i>Mesoligia furuncula</i>	Cloaked Minor	3
<i>Agriphilia tristella</i>	Common Grass-veneer	3
<i>Mythimna impura</i>	Smoky Wainscot	2
<i>Blastobasis adustella</i>	Dingy Dowd	2
<i>Agriphila geniculea</i>	Elbow-stripe Grass-veneer	2
<i>Rivula sericealis</i>	Straw Dot	2
<i>Carcina quercana</i>	Long-horned Flat-body	1
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	1
<i>Luperina testacea</i>	Flounced Rustic	1
<i>Crocallis elinguaris</i>	Scalloped Oak	1
<i>Ochropleura plecta</i>	Flame Shoulder	1
<i>Camptogramma bilineata</i>	Yellow Shell	1
<i>Acleris variegana</i>	Garden Rose Tortrix	1
<i>Cabera exanthemata</i>	Common Wave	1
<i>Perizoma bifaciata</i>	Barred Rivulet	1
<i>Hydraecia micacea</i>	Rosy Rustic	1
<i>Celypha lacunana</i>	Common Marble	1
<i>Crambus perlella</i>	Satin Grass-veneer	2
<i>Mompha subbistrigella</i>	Garden Mompha	1



26<sup>th</sup> August 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Noctua pronuba</i>	Large Yellow Underwing	28
<i>Epinotia nisella</i>	Grey Poplar Bell	16
<i>Diarsia rubi</i>	Small Square-spot	12
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	11
<i>Xestia xanthographa</i>	Square-spot Rustic	8
<i>Hydraecia micacea</i>	Rosy Rustic	7
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	7
<i>Pleuroptya ruralis</i>	Mother of Pearl	7
<i>Luperina testacea</i>	Flounced Rustic	6
<i>Mesapamea secalis</i> agg.	Common Rustic agg.	4
<i>Celypha lacunana</i>	Common Marble	3
<i>Noctua comes</i>	Lesser Yellow Underwing	3
<i>Blastobasis adustella</i>	Dingy Dowd	2
<i>Cochylis atricapitana</i>	Black-headed Conch	2
<i>Eudonia Augustea</i>	Narrow-winged Grey	2
<i>Ochropleura plecta</i>	Flame Shoulder	2
<i>Agrotis ipsilon</i>	Dark Swordgrass	1
<i>Denticucullus pygmina</i>	Small Wainscot	1
<i>Depressaria badiella</i>	Brown Flat-body	1
<i>Ennomos alniaria</i>	Canary-shouldered Thorn	1
<i>Epirrhoe alternata</i>	Common Carpet	1
<i>Gymnoscelis rufifasciata</i>	Double Striped Pug	1
<i>Lacanobia oleracea</i>	Bright-line Brown-eye	1
<i>Phlogophora meticulosa</i>	Angle Shades	1
<i>Plusia festucae</i>	Gold Spot	1
<i>Rivula sericealis</i>	Straw Dot	1
<i>Xanthorhoe designata</i>	Flame Carpet	1

1<sup>st</sup> September 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Opisthograptis luteolata</i>	Brimstone Moth	5
<i>Colostygia pectinataria</i>	Green Carpet	2
<i>Noctua pronuba</i>	Large Yellow Underwing	3
<i>Luperina testacea</i>	Flounced Rustic	3
<i>Hydraecia micacea</i>	Rosy Rustic	2
<i>Dysstroma truncata</i>	Common Marbled Carpet	1
<i>Xestia xanthographa</i>	Square-spot Rustic	2
<i>Xanthorhoe fluctuata</i>	Garden Carpet	1
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	3
<i>Diarsia rubi</i>	Small Square-spot	2
<i>Ochropleura plecta</i>	Flame Shoulder	1
<i>Rivula sericealis</i>	Straw Dot	1
<i>Noctua comes</i>	Lesser Yellow Underwing	2
<i>Blastobasis adustella</i>	Dingy Dowd	2
<i>Schrankia costaestrigalis</i>	Pinion-streaked Snout	2
<i>Pleuroptya ruralis</i>	Mother of Pearl	1
<i>Celypha Lacunana</i>	Common Marble	7
<i>Depressia badiella</i>	Brown Flat-body	1
<i>Eudonia augustea</i>	Narrow-winged Grey	4

9<sup>th</sup> September 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Colostygia pectinataria</i>	Green Carpet	1
<i>Luperina testacea</i>	Flounced Rustic	1
<i>Dysstroma truncata</i>	Common Marbled Carpet	1
<i>Xestia xanthographa</i>	Square-spot Rustic	7
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	2
<i>Diarsia rubi</i>	Small Square-spot	4
<i>Rivula sericealis</i>	Straw Dot	2
<i>Noctua comes</i>	Lesser Yellow Underwing	1
<i>Phlogophora meticulosa</i>	Angle Shades	1
<i>Autographa gamma</i>	Silver Y	3
<i>Schrankia costaestrigalis</i>	Pinion-streaked Snout	4
<i>Celypha Lacunana</i>	Common Marble	3
<i>Acleris emargana/effractana</i>		1
<i>Epinotia nisella</i>	Grey Poplar Bell	4
<i>Acleris laterana</i>	Dark-triangle Button	1

13<sup>th</sup> September

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Colostygia pectinataria</i>	Green Carpet	1
<i>Dysstroma truncata</i>	Common Marbled Carpet	1
<i>Xestia xanthographa</i>	Square-spot Rustic	8
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	4
<i>Diarsia rubi</i>	Small Square-spot	3
<i>Rivula sericealis</i>	Straw Dot	1
<i>Autographa gamma</i>	Silver Y	1
<i>Celypha Lacunana</i>	Common Marble	3
<i>Ancylis badiana</i>	Common Roller	1
<i>Acleris laterana</i>	Dark-triangle Button	1
<i>Depressaria Sp.</i>		1
<i>Noctua pronuba</i>	Large Yellow Underwing	4
<i>Xanthorhoe fluctuata</i>	Garden Carpet	1
<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	1

18<sup>th</sup> September 2020

<b>Species Name</b>	<b>Common Name</b>	<b>Count</b>
<i>Colostygia pectinataria</i>	Green Carpet	1
<i>Xestia xanthographa</i>	Square-spot Rustic	2
<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	2
<i>Diarsia rubi</i>	Small Square-spot	2
<i>Rivula sericealis</i>	Straw Dot	1
<i>Noctua pronuba</i>	Large Yellow Underwing	2
<i>Blastobasis adustella</i>	<i>Blastobasis adustella</i>	1
<i>Hydraecia micacea</i>	Rosy Rustic	2
<i>Aporophyla nigra</i>	Black Rustic	1