# Sun Rising NBG Moth Survey 2021 – A Brief Review



Alan Prior

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Cover Photo: 1640 (66.010) **Drinker** (*Euthrix potatoria)* 7th August, 2021

*All photos in this report taken at Sun Rising by A. Prior © 2021*

# Sun Rising NBG Moth Surveys 2021

## Introduction

Apart from the briefest of respites in late March the weather during the first five months of 2021 made moth recording unviable. Both moths and recorders were playing catchup for the rest of the year. This led to some of the six visits to Sun Rising being made in mediocre conditions at best. However, they were important sessions to complete and keep the consistency of recording at the site. The results from the visits reflect the less than perfect conditions in which they were undertaken. Despite that the list of moths recorded at Sun Rising did grow, if only modestly.

## Visit 1 – 23rd March, 2021

Three of us managed to make it for the first visit of the year to Sun Rising. The weather had been very poor to start the year and we had no idea what, if anything, would show up. The six traps were set up widely across the site. Martin put a battery trap up at the new car park and another one down by the pond where a Sallow was in blossom. Whilst setting the up traps we were able to have a chat with David before he headed home just before they were switched on. With the lights on we retired to our usual positions in the car park for some more chat. The wind was a bit of a pain and unfortunately the hoped-for cloud didn't materialise for the first few hours. It was slow going as expected and the target total of 50 moths seemed a little optimistic. However, on a tour of the traps Martin's near the Sallow was doing the best. Most of the traps had one or two moths in. It was a bit frustrating that we could see the cloud but it just wouldn't come our way. Martin was first to pack up as he had to work the next day. The two of us left gave it another hour in the hope that the now patchy cloud might produce some more moths. It did, but no new species unfortunately. However, the target of 50 moths was exceeded, so it was considered a successful night. Nine species were recorded with **March Moth**, **Shoulder Stripe**, **Twin-spotted Quaker**, **Hebrew Character** and **Satellite** being amongst them.



1663 **March Moth** (70.245) (*Alsophila aescularia*) 23rd March, 2021

**Visit 2 – 15th June, 2021**

Getting to moth nights these days may not be as easy as you think. The seemingly increasing practice of randomly shutting roads overnight for roadworks causes us many problems and is endlessly frustrating. Thankfully, we did have early warning of one of these needless events and so had time to work out other routes to get to Sun Rising. However, Chris got doubled up as another unexpected road closure impeded his journey and also doubled his travel time. Via the alternative route I arrived on time and Peter was waiting in the car park. As we knew it was just the three of us tonight the traps got spread far and wide. It was an OK night weather wise, but the sky was clear and the temperature dropped quickly. However, it was still a warm airmass and so it didn't drop much further all night. Peter went in his normal spot and Chris went down towards the pond. I decided to set one of my traps up by the roundhouse and the other even further on to a bit we hadn't done before. It was a bit of an experiment and as there was no wind to speak of I thought it was worth a try. With everything set up I got to work searching for any **Ghost Moth**s flying. I managed to find one female but no males. I had no help from the others as they were attempting to rewire Chris' plug. I thought that "too many cooks" was an appropriate phrase so left them to it! It was a steady night and a decent list was built. It took a long time to count up and dawn didn't help as new species started to arrive again. So it was after 4:30 am when the last light went out. Half an hour later with farewells done we all headed for home. A reasonable 94 species had been recorded with four being new for Sun Rising. They were ***Epinotia bilunana***, **Codling Moth**, ***Stenoptilia bipunctidactyla*** and **Marbled White-spot**. Some of the other species recorded were ***Elachista argentella***, ***Anania fuscalis***, ***Homoeosoma sinuella***, ***Gillmeria pallidactyla***, **Broken-barred Carpet**, **Eyed Hawk-moth**, **Alder Moth**, **Dusky Brocade** and **Beautiful Hook-tip**.



14 (3.005) Female **Ghost Moth** (*Hepialus humuli*) 15th June, 2021

**Visit 3 – 6th July, 2021**

The weather was poor for the scheduled July trip and so we didn't expect too much. It was pretty windy and with a threat of some rain. At least there was the option of getting a trap undercover at the roundhouse. Chris arrived as I had nearly finished setting up. He set up in Peter's usual spot by the cabin, where it was quite sheltered. It was expected the he would catch the most moths because of that. Once set up we didn't have too long to wait until switch on as it was so cloudy. The drizzle came and went in patches but never really amounted to very much. It was just annoying, as was the wind. However, as expected Chris was doing OK and his trap was fairly busy. The trap at the roundhouse was attracting moths but they were having trouble getting in it as the wind was too strong and kept blowing them away. As we'd stayed pretty dry it was decided to not push our luck and so counting up was started at 2:30 am. It didn't take too long and I even managed to gets Chris' figures before we set off for home about 3:45 am. It had been a productive night if somewhat underwhelming for the time of year. The job had been done and so from that point of view it was successful. We found out later that Emma and David had thought we wouldn't go because the weather was so poor, but we didn't have anywhere else to shift the date to, so we had to go as scheduled. They were pleased to find out that we had been though. Some of the mediocre list of 71 species were ***Rhodophaea formosa,*** **Lackey**, **Peach Blossom**, **Blue-bordered Carpet**, **Privet Hawk-moth**, **Coronet**, **Clouded Brindle** and **Fan-foot**.



1976 (69.006) **Privet Hawk-moth** (*Sphinx ligustri*) 6th July, 2021



1766 (70.084) **Blue-bordered Carpet** (*Plemyria rubiginata*) 6th July, 2021

**Visit 4 – 7th August, 2021**

For the second year running the proposed grand production of moth talk in the local village hall before seeing some of Sun Rising's moths was postponed. Hopefully next year we'll finally get it done. The moth recording part of the night did go ahead as planned though. After narrowly missing winging a Buzzard that unexpectedly appeared out of a hedge I noted the roads near Sun Rising were all wet, although it wasn't actually raining. It seemed a heavy shower had just passed and thankfully that was as near as we got to seeing the wet stuff all night. I was pleased to see Peter had already arrived and was busy chatting with Emma and David. There were a few other attendees as well and so there would be a bit of an "audience" after all. The weather wasn't good as just like last year it was a bit breezy. Three traps were set up and as soon as they were switched on the interest from the non-regulars was immediate. Time was spent going through the traps and identifying the early arrivals. After a few hours of seeing the moths everyone else headed for home and the trap owners were left to continue to wonder if the expected rain would ever arrive. By the time the last light went off and was packed up it was 4:30 am and we'd stayed dry, which was the best result. It had proved a better night than expected and 77 species had been recorded with surprisingly, **Chequered Fruit-tree Tortrix** being a new one for Sun Rising. Others included ***Ypsolopha horridella***, ***Blastodacna hellerella***, **Rusty-dot Pearl**, **Drinker** (see cover pic), **Pebble Hook-tip**, **V-pug**, **Least Yellow Underwing**, **Straw Underwing** and **Bulrush Wainscot**.



456 (17.006) *Ypsolopha horridella* 7th August, 2021



1395 (63.031) **Rusty-dot Pearl** (*Udea ferrugalis*) 7th August, 2021

**Visit 5 – 7th September, 2021**

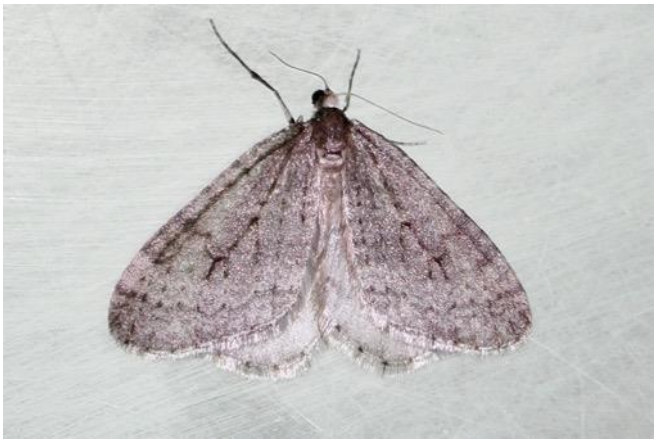
I wanted to get a photo of the blazing sunset and a frustrating journey made me later than I hoped arriving at Sun Rising. However, I made it just in time although the greetings for Peter and Chris, who had already arrived, were a bit brief! Once the pic was taken a proper "Hello" was made before getting to work setting up the traps. It had been a very hot day for the time of year and it was still very warm when the traps went on, especially for Sun Rising. We were expecting a busy night because it was so warm. As soon as the lights went on the moths piled into the traps. After a round of the traps I was expecting my generator to run out of petrol, which it duly did. It was soon refuelled and the lights back on again. Then it was time to the start counting up. Chris and Peter helped me count all the moths in the vegetation around one trap before heading off to do their own. It was a rare event that I managed to finish before Chris's light went off and had to wait a few minutes to get everyone's figures. It was pretty good timing really considering the number of moths everybody had to count. Finally, we all set off for home about 4:30 am, although that wasn't the end of my counting as the garden trap was just as full as they had been at Sun Rising. It turned out to be the longest night of the year at Sun Rising and even though the 58 species total appears mediocre some were very numerous and led to the only count over 1,000 at the site this year. **Orange Sallow** was the only new species and some of the others recorded were **Orange Swift**, ***Endothenia marginana***, **Ringed China-mark**, **Pale Eggar**, **Magpie Moth**, **Canary-shouldered Thorn**, **Lychnis**, **Lunar Underwing** and **Mouse Moth**.



This is the fiery sunset photo I managed to get – Sun Rising 7th September, 2021

**Visit 6 – 18th November, 2021**

With the weather still holding on to decent we managed one final visit to Sun Rising for 2021. I had seen David carefully trimming bits of the hedge next to the road on the way into the car park. Emma was busy with prospective "customers", but we did manage to say "Hello". Chris had been there for ages and already had a walk round the site. I expected a slight breeze and it was then just a case of finding the most sheltered spots to set up the traps. That took a lot of brain power! There still wasn't a proper plan before Peter arrived about ten past four. Darkness was descending though so something had to be sorted out. Eventually, a plan of action was agreed and we set to work. There was going to be a long line of traps straight down from the cabin to the pond and beyond. The traps were starting to be switched on before 5 pm as it was mostly cloudy. For mid-November though it was amazingly mild and so a few moths were hoped for. When Chris finally got his two up and running after some of his usual "dodgy wiring" problems everyone retired to chat. After an hour or so an early round of the traps was done. Apart from Peter's actinic they all had at least one moth in, which was pleasing. One of the first to be seen was a **Northern Winter Moth**, which was new for Sun Rising. After his day's work Scott arrived about 7:20 pm and put a Heath actinic up in the corner on the other side of the car park. Then Peter went with Scott to the chippy in Kineton. While they were gone we got one hell of a shock (no, not Chris's wiring!) but suddenly over the hill came an unbelievably low flying huge plane. It was so low we felt we could almost reach up and touch it. It was loud too. Then seconds later a second followed it. I think we actually ducked they were that low! There followed a discussion about what they were and where they were going. In the end the thought was that they were military transport planes heading for Brize Norton. We wondered if because all the trap lights were in a row they thought it was a runway and were trying to land! Scary!!! Thankfully they didn't! Anyway, Scott and Peter arrived back with the chips and it was near Peter's trap that everyone tucked into dinner. We hadn't been able to do this for years and everyone enjoyed it being back on the agenda. After dinner, it was thought time for a tour of the traps again, mainly to walk of all that grub! A few more moths had come in, but it was slow going, except for the Peter's trap near the cabin which was doing quite well. It was the most sheltered, so I suppose that made sense. Nobody was disappointed though and Scott did some leafmining as we went round. He did very well and added a lot to the list for the night and the site list as it turned out. Understandably he eventually got tired and so he decided to pack up and head for home. Once he'd gone the other traps were slowly packed up and by just after midnight the last light went off. It had been a good night and Peter did finally get a couple of moths in his actinic, so by the end every trap had moths in.



1800 (70.105) **Northern Winter Moth** (*Operophtera fagata*) 18th November, 2021

## Summary

The facts and figures for the six visits were:
26 traps set, over 39 hours worth of recording, an average overnight temperature of 11.0˚C, 2,512 individuals recorded representing 236 species with 11 newly recorded at Sun Rising. Although unfortunate with weather conditions on some nights it was still a reasonably productive year at Sun Rising with the species list now standing at 557.

## Acknowledgements

I would like to thank Emma and David for their always warm welcome, endless enthusiasm and encouragement to record the moths at Sun Rising. I would also like to give a huge thank you to Chris Johnson, Martin Kennard, Peter Beasley and Scott Hackett especially, for their commitment, dedication and contributing greatly on the recording nights this year.

## Appendix I – Recording Details

| Visit | Date | Traps | Temp | Time | Species | Recorders |
|---|---|---|---|---|---|---|
| **1** | 23rd March, 2021 | 6 | 5.2˚C | 6h 00m | 9 | A. Prior/M. Kennard/C. Johnson |
| **2** | 15th June, 2021 | 4 | 10.3˚C | 6h 15m | 94 | A. Prior/P. Beasley/C. Johnson |
| **3** | 6th July, 2021 | 2 | 13.3˚C | 5h 15m | 71 | A. Prior/C. Johnson |
| **4** | 7th August, 2021 | 3 | 12.3˚C | 6h 45m | 77 | A. Prior/P. Beasley |
| **5** | 7th September, 2021 | 4 | 14.9˚C | 7h 30m | 58 | A. Prior/C. Johnson/P. Beasley |
| **6** | 18th November, 2021 | 7 | 9.8˚C | 7h 15m | 30 | A. Prior/P. Beasley/C. Johnson/S. Hackett |
| | TOTALS | 26 | 11.0˚C Avg. | 39h 00m | 236 | |

## Appendix II – The Complete List For 2021

| B & F | New | Species Name | Mar | Jun | Jul | Aug | Sep | Nov | TOTAL | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| **14** | **3.005** | Ghost Moth | | 2 | | | | | **2** | Females |
| **15** | **3.001** | Orange Swift | | | | | 5 | | **5** | |
| **17** | **3.002** | Common Swift | | 18 | | | | | **18** | |
| **50** | **4.045** | *Stigmella aurella* | | | | | | *1 | **0** | *Mine |
| **53** | **4.047** | *Stigmella splendidissimella* | | | | | | *1 | **0** | *Mine |
| **67** | **4.042** | *Stigmella plagicolella* | | | | | | *1 | **0** | *Mine |
| **68** | **4.035** | *Stigmella salicis* | | | | | | *3 | **0** | *Mines |
| **70** | **4.038** | *Stigmella obliquella* | | | | | | *1 | **0** | *Larva |
| **75** | **4.032** | *Stigmella floslactella* | | | | | | *1 | **0** | *Mine |
| **102** | **4.012** | *Stigmella aceris* | | | | | | *1 | **0** | *Mine |
| **111** | **4.010** | *Stigmella microtheriella* | | | | | | *1 | **0** | *Mine |
| **263** | **21.001** | Apple Leaf Miner | | | | | | *1 | **0** | *Mine |
| **266** | **14.002** | *Bucculatrix nigricomella* | | | | 2 | | | **2** | |
| **294** | **15.015** | *Aspilapteryx tringipennella* | | 1 | | | | | **1** | |
| **303** | **15.028** | *Parornix anglicella* | | | | | | *1 | **0** | *Mine |
| **304** | **15.029** | *Parornix devoniella* | | | | | | *1 | **0** | *Mine |
| **330** | **15.050** | *Phyllonorycter cerasicolella* | | | | | | *1 | **0** | *Mine |
| **342** | **15.064** | *Phyllonorycter coryli* | | | | | | *1 | **0** | *Mine |
| **357** | **15.079** | *Phyllonorycter stettinensis* | | | | | | *1 | **0** | *Mine |
| **359** | **15.081** | *Phyllonorycter nicellii* | | | | | | *1 | **0** | *Mine |
| **426** | **16.003** | *Yponomeuta malinellus* | | | | 1 | 11 | | **12** | |
| **427** | **16.004** | *Yponomeuta cagnagella* | | | | 2 | | | **2** | |
| **440** | **16.019** | *Paraswammerdamia albicapitella* | | 1 | | | | | **1** | 1m Gen. Det. AP |
| **448a** | **22.003** | *Prays ruficeps* | | 1 | | | | | **1** | |

| B & F | New | Species Name | Mar | Jun | Jul | Aug | Sep | Nov | TOTAL | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| 455 | 17.005 | *Ypsolopha scabrella* | | | | 1 | 1 | | 2 | |
| 456 | 17.006 | *Ypsolopha horridella* | | | | 2 | | | 2 | |
| 517 | 37.035 | *Coleophora alcyonipennella* | | 2 | | | | | 2 | |
| 584 | 37.073 | *Coleophora alticolella* | | | | | | *1 | 0 | *Case |
| 610 | 38.004 | *Elachista argentella* | | 1 | | | | | 1 | |
| 658 | 31.001 | *Carcina quercana* | | | | 2 | | | 2 | |
| 688 | 32.018 | *Agonopterix heracliana* | | | | 1 | | | 1 | |
| 726 | 35.058 | *Metzneria metzneriella* | | 1 | | | | | 1 | |
| 873 | 41.002 | *Blastobasis adustella* | | | | 9 | 11 | | 20 | |
| 874 | 41.003 | *Blastobasis lacticolella* | | | 1 | 1 | 1 | 2 | 5 | |
| 905 | 39.001 | *Blastodacna hellerella* | | | | 1 | | | 1 | |
| 936 | 49.097 | *Cochylimorpha straminea* | | 4 | | 46 | | | 50 | |
| 937 | 49.109 | *Agapeta hamana* | | | | 1 | | | 1 | |
| 938 | 49.110 | *Agapeta zoegana* | | | 1 | 9 | | | 10 | |
| 969 | 49.024 | Chequered Fruit-tree Tortix | | | | 2 | | | 2 | |
| 970 | 49.025 | Barred Fruit-tree Tortrix | | 2 | 1 | | | | 3 | |
| 972 | 49.026 | Dark Fruit-tree Tortrix | | | | 3 | | | 3 | |
| 977 | 49.013 | Large Fruit-tree Tortrix | | | 1 | | 1 | | 2 | |
| 990 | 49.032 | *Zelopherses unitana* | | 5 | | | | | 5 | |
| 998 | 49.039 | Light Brown Apple Moth | | | | | 7 | 3 | 10 | |
| 1011 | 49.091 | *Pseudargyrotoza conwagana* | | 1 | 1 | | | | 2 | |
| 1020x | 49.050x | *Cnephasia sp.* | | 2 | 1 | | | | 3 | |
| 1020 | 49.050 | *Cnephasia stephensiana* | | | 2 | | | | 2 | 1m Gen. Det. AP |
| 1036 | 49.062 | *Acleris forsskaleana* | | | | | 1 | | 1 | |
| 1048 | 49.077 | Garden Rose Tortrix | | | | | | 3 | 3 | |
| 1063 | 49.161 | *Celypha striana* | | 4 | 1 | 4 | 3 | | 12 | |
| 1076 | 49.166 | *Celypha lacunana* | | 21 | 1 | 5 | 6 | | 33 | |
| 1082 | 49.157 | *Hedya pruniana* | | 5 | 2 | | | | 7 | |
| 1083 | 49.156 | *Hedya nubiferana* | | | 2 | | | | 2 | |
| 1099 | 49.188 | *Endothenia marginana* | | | | | 1 | *4 | 1 | *Larvae |
| 1133 | 49.254 | *Epinotia bilunana* | | 1 | | | | | 1 | |
| 1134 | 49.249 | *Epinotia ramella* | | | | 1 | | | 1 | |
| 1136 | 49.240 | *Epinotia immundana* | | | | 1 | | | 1 | |
| 1159 | 49.223 | *Rhopobota naevana* | | | 1 | | | | 1 | |
| 1174 | 49.292 | *Notocelia cynosbatella* | | 6 | | | | | 6 | |
| 1175 | 49.294 | Bramble Shoot Moth | | | | 1 | | | 1 | |
| 1176 | 49.298 | *Notocelia trimaculana* | | 4 | | | | | 4 | |
| 1177 | 49.297 | *Notocelia rosaecolana* | | 1 | 1 | | | | 2 | |
| 1200 | 49.266 | *Eucosma hohenwartiana* | | 11 | 5 | | | | 16 | |
| 1201 | 49.265 | *Eucosma cana* | | 1 | 3 | | | | 4 | |
| 1205 | 49.224 | *Spilonota ocellana* | | | | 2 | | | 2 | |
| 1261 | 49.338 | Codling Moth | | 1 | | | | | 1 | |
| 1279 | 49.313 | *Dichrorampha acuminatana* | | | | | 5 | | 5 | |
| 1293 | 63.080 | *Chrysoteuchia culmella* | | 3 | 169 | | | | 172 | |
| 1301 | 63.086 | *Crambus lathoniellus* | | 54 | 5 | | | | 59 | |
| 1302 | 63.088 | *Crambus perlella* | | | 1 | | | | 1 | |
| 1304 | 63.093 | *Agriphila straminella* | | | | 11 | | | 11 | |
| 1305 | 63.089 | *Agriphila tristella* | | | | 36 | 1 | | 37 | |
| 1336 | 63.075 | *Eudonia pallida* | | | | | 1 | | 1 | |
| 1338 | 63.067 | *Eudonia lacustrata* | | | 1 | | | | 1 | |
| 1344 | 63.074 | *Eudonia mercurella* | | | | 2 | 2 | | 4 | |
| 1348 | 63.117 | Ringed China-mark | | | | | 2 | | 2 | |
| 1376 | 63.025 | Small Magpie | | 4 | 2 | | | | 6 | |
| 1386 | 63.016 | *Anania fuscalis* | | 11 | | | | | 11 | |
| 1392 | 63.037 | *Udea olivalis* | | 1 | 3 | | | | 4 | |

| B & F | New | Species Name | Mar | Jun | Jul | Aug | Sep | Nov | TOTAL | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| **1395** | **63.031** | Rusty-dot Pearl | | | | 1 | | | **1** | |
| **1405** | **63.038** | Mother of Pearl | | | | 6 | | | **6** | |
| **1428** | **62.001** | Bee Moth | | 2 | | | | | **2** | |
| **1437** | **62.038** | *Acrobasis consociella* | | | | 1 | | | **1** | |
| **1439** | **62.035** | *Acrobasis advenella* | | | | 3 | | | **3** | |
| **1445** | **62.024** | *Rhodophaea formosa* | | | 1 | | | | **1** | |
| **1470** | **62.048** | *Euzophera pinguis* | | | | | 1 | | **1** | |
| **1481** | **62.054** | *Homoeosoma sinuella* | | 1 | | | | | **1** | |
| **1504** | **45.008** | *Gillmeria pallidactyla* | | 1 | | | | | **1** | |
| **1508** | **45.013** | *Stenoptilia bipunctidactyla* | | 1 | | | | | **1** | 1m Gen. Det. AP |
| **1524** | **45.044** | *Emmelina monodactyla* | | 1 | | | | | **1** | |
| **1626** | **59.010** | Meadow Brown | | 1 | 1 | | | | **2** | @ Dusk |
| **1631** | **66.001** | DECEMBER MOTH | | | | | | 11 | **11** | |
| **1632** | **66.002** | PALE EGGAR | | | | | 1 | | **1** | |
| **1634** | **66.003** | LACKEY | | | 1 | | | | **1** | |
| **1640** | **66.010** | DRINKER | | | | 2 | | | **2** | |
| **1648** | **65.005** | PEBBLE HOOK-TIP | | | | 3 | | | **3** | |
| **1652** | **65.008** | PEACH BLOSSOM | | | 1 | | | | **1** | |
| **1663** | **70.245** | MARCH MOTH | 3 | | | | | | **3** | |
| **1669** | **70.305** | COMMON EMERALD | | | 1 | | | | **1** | |
| **1682** | **70.029** | BLOOD-VEIN | | 2 | 2 | | | | **4** | |
| **1702** | **70.013** | SMALL FAN-FOOTED WAVE | | | 2 | | | | **2** | |
| **1711** | **70.012** | TREBLE BROWN SPOT | | 1 | | | | | **1** | |
| **1713** | **70.016** | RIBAND WAVE | | | 1 | 2 | 1 | | **4** | |
| **1724** | **70.051** | RED TWIN-SPOT CARPET | | | | 2 | | | **2** | |
| **1727** | **70.054** | SILVER-GROUND CARPET | | 4 | | | | | **4** | |
| **1732** | **70.045** | SHADED BROAD-BAR | | | 1 | 54 | | | **55** | |
| **1738** | **70.061** | COMMON CARPET | | | 1 | 2 | 2 | | **5** | |
| **1742** | **70.059** | YELLOW SHELL | | | | 1 | 2 | | **3** | |
| **1746** | **70.066** | SHOULDER STRIPE | 1 | | | | | | **1** | |
| **1752** | **70.087** | PURPLE BAR | | 1 | | 1 | | | **2** | |
| **1758** | **70.093** | BARRED STRAW | | | 7 | | | | **7** | |
| **1759** | **70.094** | SMALL PHOENIX | | | | | 1 | | **1** | |
| **1760** | **70.095** | RED-GREEN CARPET | | | | | | 7 | **7** | |
| **1764** | **70.097** | COMMON MARBLED CARPET | | 2 | | | 11 | | **13** | |
| **1765** | **70.085** | BARRED YELLOW | | 2 | 2 | | | | **4** | |
| **1766** | **70.084** | BLUE-BORDERED CARPET | | | 1 | | | | **1** | |
| **1773** | **70.086** | BROKEN-BARRED CARPET | | 1 | | | | | **1** | |
| **1776** | **70.100** | GREEN CARPET | | 3 | | | 11 | | **14** | |
| **1799** | **70.106** | WINTER MOTH | | | | | | 8 | **8** | |
| **1800** | **70.105** | NORTHERN WINTER MOTH | | | | | | 4 | **4** | |
| **1834** | **70.183** | COMMON PUG | | 2 | | | | | **2** | |
| **1837** | **70.190** | GREY PUG | | 1 | | | | | **1** | |
| **1858** | **70.142** | V-PUG | | | | 1 | | | **1** | |
| **1860** | **70.144** | GREEN PUG | | 3 | 1 | | | | **4** | |
| **1883** | **70.200** | YELLOW-BARRED BRINDLE | | | | 1 | | | **1** | |
| **1884** | **70.205** | MAGPIE MOTH | | | | 5 | 2 | | **7** | |
| **1887** | **70.207** | CLOUDED BORDER | | 1 | | | | | **1** | |
| **1904** | **70.224** | SCORCHED WING | | 2 | | | | | **2** | |
| **1906** | **70.226** | BRIMSTONE MOTH | | 3 | 8 | 13 | 34 | | **58** | |
| **1913** | **70.234** | CANARY-SHOULDERED THORN | | | | | 4 | | **4** | |
| **1914** | **70.235** | DUSKY THORN | | | | 1 | 7 | | **8** | |
| **1921** | **70.241** | SCALLOPED OAK | | | 2 | | | | **2** | |
| **1922** | **70.243** | SWALLOW-TAILED MOTH | | | 8 | | | | **8** | |
| **1931** | **70.252** | PEPPERED MOTH | | 2 | 1 | | | | **3** | |

| B & F | New | Species Name | Mar | Jun | Jul | Aug | Sep | Nov | TOTAL | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| **1933** | **70.254** | SCARCE UMBER | | | | | | 1 | **1** | |
| **1936** | **70.257** | WAVED UMBER | | 1 | | | | | **1** | |
| **1937** | **70.258** | WILLOW BEAUTY | | 7 | 2 | | | | **9** | |
| **1941** | **70.265** | MOTTLED BEAUTY | | 1 | 1 | | | | **2** | |
| **1947** | **70.270** | ENGRAILED | | | | 1 | | | **1** | |
| **1955** | **70.277** | COMMON WHITE WAVE | | | 1 | | | | **1** | |
| **1958** | **70.280** | CLOUDED SILVER | | 8 | 3 | | | | **11** | |
| **1961** | **70.283** | LIGHT EMERALD | | | | | 1 | | **1** | |
| **1976** | **69.006** | PRIVET HAWK-MOTH | | | 1 | | | | **1** | |
| **1979** | **69.001** | LIME HAWK-MOTH | | 1 | | | | | **1** | |
| **1980** | **69.002** | EYED HAWK-MOTH | | 1 | | | | | **1** | |
| **1981** | **69.003** | POPLAR HAWK-MOTH | | 3 | | 2 | | | **5** | |
| **1991** | **69.016** | ELEPHANT HAWK-MOTH | | 2 | 2 | | | | **4** | |
| **1992** | **69.017** | SMALL ELEPHANT HAWK-MOTH | | 8 | | | | | **8** | |
| **1994** | **71.025** | BUFF-TIP | | 4 | 2 | | | | **6** | |
| **2000** | **71.012** | IRON PROMINENT | | | | 1 | | | **1** | |
| **2003** | **71.013** | PEBBLE PROMINENT | | | | 1 | | | **1** | |
| **2007** | **71.017** | SWALLOW PROMINENT | | | | 2 | | | **2** | |
| **2011** | **71.020** | PALE PROMINENT | | 2 | | 2 | | | **4** | |
| **2028** | **72.015** | PALE TUSSOCK | | 3 | | | | | **3** | |
| **2030** | **72.013** | YELLOW-TAIL | | | | 2 | | | **2** | |
| **2044** | **72.044** | DINGY FOOTMAN | | | | 3 | | | **3** | |
| **2047** | **72.046** | SCARCE FOOTMAN | | | | 7 | | | **7** | |
| **2050** | **72.045** | COMMON FOOTMAN | | | | 1 | | | **1** | |
| **2060** | **72.020** | WHITE ERMINE | | 3 | | | | | **3** | |
| **2061** | **72.019** | BUFF ERMINE | | 6 | | | | | **6** | |
| **2064** | **72.024** | RUBY TIGER | | | | 1 | 1 | | **2** | |
| **2077** | **74.003** | SHORT-CLOAKED MOTH | | | 1 | | | | **1** | |
| **2087** | **73.319** | TURNIP MOTH | | | | | 1 | | **1** | |
| **2089** | **73.317** | HEART & DART | | 23 | 4 | | | | **27** | |
| **2098** | **73.328** | FLAME | | 2 | 4 | | | | **6** | |
| **2102** | **73.329** | FLAME SHOULDER | | 7 | | 27 | 19 | | **53** | |
| **2107** | **73.342** | LARGE YELLOW UNDERWING | | 2 | 1 | 4 | 24 | | **31** | |
| **2109** | **73.345** | LESSER YELLOW UNDERWING | | | | | 4 | | **4** | |
| **2110** | **73.343** | BROAD-BORDERED YELLOW UNDERWING | | | | | 5 | | **5** | |
| **2111** | **73.348** | LESSER BROAD-BORDERED YELLOW UNDERWING | | | | 23 | 4 | | **27** | |
| **2112** | **73.346** | LEAST YELLOW UNDERWING | | | | 1 | | | **1** | |
| **2123** | **73.334** | SMALL SQUARE-SPOT | | 1 | | 1 | 6 | | **8** | |
| **2126** | **73.359** | SETACEOUS HEBREW CHARACTER | | 19 | 1 | 3 | 177 | | **200** | |
| **2128** | **73.361** | DOUBLE SQUARE-SPOT | | | 1 | | | | **1** | |
| **2134** | **73.357** | SQUARE-SPOT RUSTIC | *5 | | | 1 | 309 | | **310** | *Larvae |
| **2160** | **73.267** | BRIGHT-LINE BROWN-EYE | | 5 | | | | | **5** | |
| **2173** | **73.281** | LYCHNIS | | | | | 1 | | **1** | |
| **2178** | **73.253** | FEATHERED GOTHIC | | | | | 5 | | **5** | |
| **2182** | **73.245** | SMALL QUAKER | 5 | | | | | | **5** | |
| **2187** | **73.244** | COMMON QUAKER | 21 | | | | | | **21** | |
| **2188** | **73.242** | CLOUDED DRAB | 14 | | | | | | **14** | |
| **2189** | **73.250** | TWIN-SPOTTED QUAKER | 1 | | | | | | **1** | |
| **2190** | **73.249** | HEBREW CHARACTER | 11 | | | | | | **11** | |
| **2192** | **73.290** | BROWN-LINE BRIGHT-EYE | | | 2 | 3 | | | **5** | |
| **2193** | **73.298** | CLAY | | | 6 | | | | **6** | |
| **2194** | **73.297** | WHITE-POINT | | | | | 5 | | **5** | |
| **2198** | **73.293** | SMOKY WAINSCOT | | | 9 | 4 | | | **13** | |
| **2199** | **73.291** | COMMON WAINSCOT | | 32 | 2 | | 254 | | **288** | |
| **2205** | **73.301** | SHOULDER-STRIPED WAINSCOT | | 30 | | | | | **30** | |

| B & F | New | Species Name | Mar | Jun | Jul | Aug | Sep | Nov | TOTAL | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| 2256 | 73.210 | SATELLITE | 1 | | | | | | 1 | |
| 2259 | 73.195 | DARK CHESTNUT | | | | | | 2 | 2 | |
| 2262 | 73.192 | BRICK | | | | | | 1 | 1 | |
| 2263 | 73.189 | RED-LINE QUAKER | | | | | | 2 | 2 | |
| 2267 | 73.186 | BEADED CHESTNUT | | | | | | 1 | 1 | |
| 2269 | 73.219 | CENTRE-BARRED SALLOW | | | | | 47 | | 47 | |
| 2270 | 73.193 | LUNAR UNDERWING | | | | | 2 | | 2 | |
| 2271 | 73.179 | ORANGE SALLOW | | | | | 1 | | 1 | |
| 2278 | 73.046 | POPLAR GREY | | 6 | | | | | 6 | |
| 2281 | 73.036 | ALDER MOTH | | 1 | | | | | 1 | |
| 2283 | 73.037 | DARK DAGGER | | 1 | 2 | | 1 | | 4 | |
| 2284x | 73.038x | Dark/Grey Dagger | | | | 2 | | | 2 | |
| 2289 | 73.045 | KNOT GRASS | | 1 | | 1 | | | 2 | |
| 2291 | 73.047 | CORONET | | 10 | 6 | | | | 16 | |
| 2297 | 73.062 | COPPER UNDERWING | | | | 4 | 6 | *1 | 10 | *Dead in Spiders web |
| 2299 | 73.064 | MOUSE MOTH | | | | 2 | 1 | | 3 | |
| 2302 | 73.102 | BROWN RUSTIC | | 5 | | | | | 5 | |
| 2303 | 73.109 | STRAW UNDERWING | | | | 17 | | | 17 | |
| 2306 | 73.113 | ANGLE SHADES | | | 1 | | 5 | | 6 | |
| 2318 | 73.216 | DUN-BAR | | | | 4 | | | 4 | |
| 2321 | 73.162 | DARK ARCHES | | 8 | 16 | 17 | | | 41 | |
| 2322 | 73.163 | LIGHT ARCHES | | | 5 | | | | 5 | |
| 2327 | 73.155 | CLOUDED BRINDLE | | | 2 | | | | 2 | |
| 2330 | 73.154 | DUSKY BROCADE | | 7 | | | | | 7 | |
| 2333 | 73.157 | LARGE NUTMEG | | 4 | | | | | 4 | |
| 2334 | 73.158 | RUSTIC SHOULDER-KNOT | | 13 | | | | | 13 | |
| 2337x | 73.173x | Marbled Minor agg. | | 28 | 7 | | | | 35 | |
| 2340 | 73.176 | MIDDLE-BARRED MINOR | | 28 | 4 | | | | 32 | |
| 2341 | 73.172 | CLOAKED MINOR | | | | 7 | | | 7 | |
| 2343x | 73.169x | Common Rustic agg. | | | | 28 | | | 28 | |
| 2352 | 73.120 | DUSKY SALLOW | | | | 12 | | | 12 | |
| 2353 | 73.131 | FLOUNCED RUSTIC | | | | 6 | 13 | | 19 | |
| 2361 | 73.123 | ROSY RUSTIC | | | | | 1 | | 1 | |
| 2369 | 73.136 | BULRUSH WAINSCOT | | | | 1 | | | 1 | |
| 2380 | 73.101 | TREBLE LINES | | 18 | | | | | 18 | |
| 2381 | 73.096 | UNCERTAIN | | 2 | 5 | 1 | | | 8 | |
| 2382 | 73.097 | RUSTIC | | | 4 | 5 | | | 9 | |
| 2384 | 73.099 | VINE'S RUSTIC | | 1 | | | 13 | | 14 | |
| 2387 | 73.092 | MOTTLED RUSTIC | | 6 | | | | | 6 | |
| 2389 | 73.095 | PALE MOTTLED WILLOW | | | | | 1 | | 1 | |
| 2410 | 73.024 | MARBLED WHITE-SPOT | | 2 | | | | | 2 | |
| 2434 | 73.012 | BURNISHED BRASS | | 2 | 1 | | 4 | | 7 | |
| 2441 | 73.015 | SILVER Y | | 1 | 1 | | | | 2 | |
| 2450 | 73.001 | SPECTACLE | | 1 | | 1 | 3 | | 5 | |
| 2473 | 72.069 | BEAUTIFUL HOOK-TIP | | 2 | 3 | | | | 5 | |
| 2474 | 72.002 | STRAW DOT | | 13 | | 18 | 8 | | 39 | |
| 2477 | 72.003 | SNOUT | | | 2 | | 4 | | 6 | |
| 2489 | 72.053 | FAN-FOOT | | | 1 | | | | 1 | |
| 236 | 11 | | 57 | 537 | 350 | 461 | 1062 | 45 | 2512 | |

# Appendix III – National Status & Foodplants

| B & F | New | Species Name | National Status | Foodplants |
|---|---|---|---|---|
| **14** | **3.005** | Ghost Moth | Common | Grasses, Herbaceous plants |
| **15** | **3.001** | Orange Swift | Common | Bracken, Herbaceous plants |
| **17** | **3.002** | Common Swift | Common | Grasses, Herbaceous plants |
| **50** | **4.045** | *Stigmella aurella* | Common | Bramble, Avens etc. |
| **53** | **4.047** | *Stigmella splendidissimella* | Common | Brambles, Silverweed, Meadowsweet, Agrimony |
| **67** | **4.042** | *Stigmella plagicolella* | Common | Blackthorn, Plum, Cherry |
| **68** | **4.035** | *Stigmella salicis* | Common | Willows |
| **70** | **4.038** | *Stigmella obliquella* | Local | Smooth-leaved Willows |
| **75** | **4.032** | *Stigmella floslactella* | Common | Hazel, Hornbeam |
| **102** | **4.012** | *Stigmella aceris* | Local | Field Maple, Sycamore |
| **111** | **4.010** | *Stigmella microtheriella* | Common | Hazel, Hornbeam |
| **263** | **21.001** | Apple Leaf Miner | Common | Rosaceous Trees & Birch |
| **266** | **14.002** | *Bucculatrix nigricomella* | Local | Ox-eye Daisy |
| **294** | **15.015** | *Aspilapteryx tringipennella* | Common | Ribwort Plantain |
| **303** | **15.028** | *Parornix anglicella* | Common | Hawthorn |
| **304** | **15.029** | *Parornix devoniella* | Common | Hazel |
| **330** | **15.050** | *Phyllonorycter cerasicolella* | Local | Cherry |
| **342** | **15.064** | *Phyllonorycter coryli* | Common | Hazel |
| **357** | **15.079** | *Phyllonorycter stettinensis* | Common | Alder |
| **359** | **15.081** | *Phyllonorycter nicellii* | Common | Hazel |
| **426** | **16.003** | *Yponomeuta malinellus* | Local | Apple |
| **427** | **16.004** | *Yponomeuta cagnagella* | Common | Spindle |
| **440** | **16.019** | *Paraswammerdamia albicapitella* | Common | Blackthorn |
| **448a** | **22.003** | *Prays ruficeps* | Unknown | probably Ash |
| **455** | **17.005** | *Ypsolopha scabrella* | Common | Apple, Blackthorn, Cotoneaster |
| **456** | **17.006** | *Ypsolopha horridella* | **Nb** | Apple, Blackthorn |
| **517** | **37.035** | *Coleophora alcyonipennella* | Local | White Clover |
| **584** | **37.073** | *Coleophora alticolella* | Common | Juncus Rushes |
| **610** | **38.004** | *Elachista argentella* | Common | Grasses |
| **658** | **31.001** | *Carcina quercana* | Common | Deciduous Trees & Bushes |
| **688** | **32.018** | *Agonopterix heracliana* | Common | Apiaceae, esp. Angelica, Hogweed |
| **726** | **35.058** | *Metzneria metzneriella* | Common | Knapweed, Saw-wort |
| **873** | **41.002** | *Blastobasis adustella* | Common | Withered plant material |
| **874** | **41.003** | *Blastobasis lacticolella* | Common | Withered plant material |
| **905** | **39.001** | *Blastodacna hellerella* | Common | Hawthorn |
| **936** | **49.097** | *Cochylimorpha straminea* | Common | Common Knapweed |
| **937** | **49.109** | *Agapeta hamana* | Common | Thistles |
| **938** | **49.110** | *Agapeta zoegana* | Common | Common Knapweed, Scabious |
| **969** | **49.024** | Chequered Fruit-tree Tortix | Common | Deciduous Trees & Bushes |
| **970** | **49.025** | Barred Fruit-tree Tortrix | Common | Deciduous Trees & Bushes |
| **972** | **49.026** | Dark Fruit-tree Tortrix | Common | Deciduous Trees & Bushes |
| **977** | **49.013** | Large Fruit-tree Tortrix | Common | Deciduous Trees & Bushes |
| **990** | **49.032** | *Zelopherses unitana* | **Na** | Grasses, Herbaceous plants |
| **998** | **49.039** | Light Brown Apple Moth | Common | Polyphagous |
| **1011** | **49.091** | *Pseudargyrotoza conwagana* | Common | Ash, Wild Privet |
| **1020x** | **49.050x** | *Cnephasia sp.* | Common | – |
| **1020** | **49.050** | *Cnephasia stephensiana* | Common | Herbaceous plants |
| **1036** | **49.062** | *Acleris forsskaleana* | Common | Field Maple, Sycamore |
| **1048** | **49.077** | Garden Rose Tortrix | Common | Roseaceous Trees & Shrubs, Herbaceous plants |
| **1063** | **49.161** | *Celypha striana* | Common | Dandelion |
| **1076** | **49.166** | *Celypha lacunana* | Common | Herbaceous plants |

| B & F | New | Species Name | National Status | Foodplants |
|---|---|---|---|---|
| **1082** | **49.157** | *Hedya pruniana* | Common | Cherry, Blackthorn, Plum |
| **1083** | **49.156** | *Hedya nubiferana* | Common | Roseaceous Trees & Shrubs |
| **1099** | **49.188** | *Endothenia marginana* | Common | Teasel, Betony, Hemp-nettle |
| **1133** | **49.254** | *Epinotia bilunana* | Common | Birch |
| **1134** | **49.249** | *Epinotia ramella* | Common | Birch |
| **1136** | **49.240** | *Epinotia immundana* | Common | Birch, Alder |
| **1159** | **49.223** | *Rhopobota naevana* | Common | Polyphagous |
| **1174** | **49.292** | *Notocelia cynosbatella* | Common | Rose, Bramble |
| **1175** | **49.294** | Bramble Shoot Moth | Common | Bramble |
| **1176** | **49.298** | *Notocelia trimaculana* | Common | Hawthorn |
| **1177** | **49.297** | *Notocelia rosaecolana* | Common | Rose |
| **1200** | **49.266** | *Eucosma hohenwartiana* | Common | Common Knapweed. Saw-wort |
| **1201** | **49.265** | *Eucosma cana* | Common | Common Knapweed, Thistle |
| **1205** | **49.224** | *Spilonota ocellana* | Common | Deciduous Trees & Shrubs |
| **1261** | **49.338** | Codling Moth | Common | Apple, Sweet Chestnut-fruits & nuts |
| **1279** | **49.313** | *Dichrorampha acuminatana* | Local | Yarrow, Tansy |
| **1293** | **63.080** | *Chrysoteuchia culmella* | Common | Grasses |
| **1301** | **63.086** | *Crambus lathoniellus* | Common | Grasses esp. Wavy hair-grass |
| **1302** | **63.088** | *Crambus perlella* | Common | Grasses esp. hair-grass, fescue |
| **1304** | **63.093** | *Agriphila straminella* | Common | Grasses |
| **1305** | **63.089** | *Agriphila tristella* | Common | Grasses esp. hair-grass, meadow-grass |
| **1336** | **63.075** | *Eudonia pallida* | Local | Mosses & Lichens |
| **1338** | **63.067** | *Eudonia lacustrata* | Common | Mosses |
| **1344** | **63.074** | *Eudonia mercurella* | Common | Mosses |
| **1348** | **63.117** | Ringed China-mark | Common | submerged pond & freshwater plants |
| **1376** | **63.025** | Small Magpie | Common | Common Nettle |
| **1386** | **63.016** | *Anania fuscalis* | Local | Wild Marjoram, Thyme etc. |
| **1392** | **63.037** | *Udea olivalis* | Common | Herbaceous plants |
| **1395** | **63.031** | Rusty-dot Pearl | Migrant | Herbaceous Plants |
| **1405** | **63.038** | Mother of Pearl | Common | Common Nettle |
| **1428** | **62.001** | Bee Moth | Common | Honeycomb in Bees nests |
| **1437** | **62.038** | *Acrobasis consociella* | Local | Oak |
| **1439** | **62.035** | *Acrobasis advenella* | Common | Hawthorn, Rowan |
| **1445** | **62.024** | *Rhodophaea formosa* | Local | Elm |
| **1470** | **62.048** | *Euzophera pinguis* | Common | Ash |
| **1481** | **62.054** | *Homoeosoma sinuella* | Common | Plantains |
| **1504** | **45.008** | *Gillmeria pallidactyla* | Common | Yarrow, Tansy? |
| **1508** | **45.013** | *Stenoptilia bipunctidactyla* | Common | Field Scabious |
| **1524** | **45.044** | *Emmelina monodactyla* | Common | Bindweed |
| **1626** | **59.010** | Meadow Brown | Common | Grasses |
| **1631** | **66.001** | DECEMBER MOTH | Common | Deciduous Trees esp. Oak |
| **1632** | **66.002** | PALE EGGAR | Common | Oak, Birch, Sallow, Blackthorn, Hawthorn, Hazel, Crab Apple |
| **1634** | **66.003** | LACKEY | Common | Deciduous Trees & Shrubs |
| **1640** | **66.010** | DRINKER | Common | Grasses |
| **1648** | **65.005** | PEBBLE HOOK-TIP | Common | Birch |
| **1652** | **65.008** | PEACH BLOSSOM | Common | Brambles |
| **1663** | **70.245** | MARCH MOTH | Common | Deciduous Trees |
| **1669** | **70.305** | COMMON EMERALD | Common | Deciduous Trees & Shrubs |
| **1682** | **70.029** | BLOOD-VEIN | Common | Dock, Sorrel, Knotgrass |
| **1702** | **70.013** | SMALL FAN-FOOTED WAVE | Common | Dandelion, Knotgrass, Plantain, Bramble |
| **1711** | **70.012** | TREBLE BROWN SPOT | Local | Herbaceous plants |
| **1713** | **70.016** | RIBAND WAVE | Common | Bedstraws, Dandelion. Dock |
| **1724** | **70.051** | RED TWIN-SPOT CARPET | Common | Low Growing Plants |
| **1727** | **70.054** | SILVER-GROUND CARPET | Common | Low Growing Plants |
| **1732** | **70.045** | SHADED BROAD-BAR | Common | Vetches, Clovers |

| B & F | New | Species Name | National Status | Foodplants |
|---|---|---|---|---|
| **1738** | **70.061** | COMMON CARPET | Common | Bedstraws |
| **1742** | **70.059** | YELLOW SHELL | Common | Low Growing Plants |
| **1746** | **70.066** | SHOULDER STRIPE | Common | Roseaceous plants |
| **1752** | **70.087** | PURPLE BAR | Common | Bedstraws |
| **1758** | **70.093** | BARRED STRAW | Common | Bedstraws |
| **1759** | **70.094** | SMALL PHOENIX | Common | Willowherbs |
| **1760** | **70.095** | RED-GREEN CARPET | Common | Deciduous Trees |
| **1764** | **70.097** | COMMON MARBLED CARPET | Common | Deciduous Trees & Shrubs |
| **1765** | **70.085** | BARRED YELLOW | Common | Roseaceous plants |
| **1766** | **70.084** | BLUE-BORDERED CARPET | Local | Alder, Blackthorn, Birch, Hawthorn, Plum, Apple |
| **1773** | **70.086** | BROKEN-BARRED CARPET | Common | Deciduous Trees |
| **1776** | **70.100** | GREEN CARPET | Common | Bedstraws |
| **1799** | **70.106** | WINTER MOTH | Common | Deciduous Trees & Shrubs, Conifers |
| **1800** | **70.105** | NORTHERN WINTER MOTH | Common | Birch, Alder, Hazel |
| **1834** | **70.183** | COMMON PUG | Common | Deciduous Trees & Shrubs, Herbaceous plants |
| **1837** | **70.190** | GREY PUG | Common | Herbaceous plants, Broadleaved Shrubs |
| **1858** | **70.142** | V-PUG | Common | Blackthorn |
| **1860** | **70.144** | GREEN PUG | Common | Hawthorn, Blackthorn, Crab-apple |
| **1883** | **70.200** | YELLOW-BARRED BRINDLE | Local | Holly, Ivy, Dogwood, Guelder Rose, Hawthorn |
| **1884** | **70.205** | MAGPIE MOTH | Common | Blackthorn, Hawthorn, Privet, Hazel + |
| **1887** | **70.207** | CLOUDED BORDER | Common | Aspen, Poplar, Sallow, Hazel |
| **1904** | **70.224** | SCORCHED WING | Local | Oak, Beech, Birch, Sallow |
| **1906** | **70.226** | BRIMSTONE MOTH | Common | Deciduous Trees |
| **1913** | **70.234** | CANARY-SHOULDERED THORN | Common | Deciduous Trees |
| **1914** | **70.235** | DUSKY THORN | Common | Ash |
| **1921** | **70.241** | SCALLOPED OAK | Common | Deciduous Trees & Shrubs |
| **1922** | **70.243** | SWALLOW-TAILED MOTH | Common | Honeysuckle, Ivy, Hawthorn & other trees/shrubs |
| **1931** | **70.252** | PEPPERED MOTH | Common | Deciduous Trees & Shrubs, Herbaceous plants |
| **1933** | **70.254** | SCARCE UMBER | Common | Deciduous Trees & Shrubs |
| **1936** | **70.257** | WAVED UMBER | Common | Privet, Lilac |
| **1937** | **70.258** | WILLOW BEAUTY | Common | Deciduous Trees & Shrubs, Conifers |
| **1941** | **70.265** | MOTTLED BEAUTY | Common | Deciduous Trees & Shrubs, Conifers |
| **1947** | **70.270** | ENGRAILED | Common | Deciduous Trees & Shrubs |
| **1955** | **70.277** | COMMON WHITE WAVE | Common | Birch, Alder, Sallow |
| **1958** | **70.280** | CLOUDED SILVER | Common | Blackthorn, Hawthorn, Plum, Cherry, Crab Apple |
| **1961** | **70.283** | LIGHT EMERALD | Common | Deciduous Trees & Shrubs |
| **1976** | **69.006** | PRIVET HAWK-MOTH | Common | Privet, Ash, Lilac |
| **1979** | **69.001** | LIME HAWK-MOTH | Common | Birch, Alder, Lime, Elm |
| **1980** | **69.002** | EYED HAWK-MOTH | Common | Willow, Sallow, Apple |
| **1981** | **69.003** | POPLAR HAWK-MOTH | Common | Willow, Sallow, Aspen, Poplar |
| **1991** | **69.016** | ELEPHANT HAWK-MOTH | Common | Willowherbs, Himalayan Balsam, Bedstraws, Fuschia etc |
| **1992** | **69.017** | SMALL ELEPHANT HAWK-MOTH | Local | Bedstraws |
| **1994** | **71.025** | BUFF-TIP | Common | Deciduous Trees & Shrubs |
| **2000** | **71.012** | IRON PROMINENT | Common | Oak, Beech, Birch, Hazel |
| **2003** | **71.013** | PEBBLE PROMINENT | Common | Willow, Sallow, Aspen, Poplar |
| **2007** | **71.017** | SWALLOW PROMINENT | Common | Willow, Sallow, Aspen, Poplar |
| **2011** | **71.020** | PALE PROMINENT | Common | Willow, Sallow, Aspen, Poplar |
| **2028** | **72.015** | PALE TUSSOCK | Common | Deciduous Trees & Shrubs |
| **2030** | **72.013** | YELLOW-TAIL | Common | Willow, Sallow, Aspen, Poplar |
| **2044** | **72.044** | DINGY FOOTMAN | Common | Lichens |
| **2047** | **72.046** | SCARCE FOOTMAN | Local | Lichens |
| **2050** | **72.045** | COMMON FOOTMAN | Common | Lichens |
| **2060** | **72.020** | WHITE ERMINE | Common | Herbaceous Plants |
| **2061** | **72.019** | BUFF ERMINE | Common | Herbaceous Plants |
| **2064** | **72.024** | RUBY TIGER | Common | Herbaceous Plants |

| B & F | New | Species Name | National Status | Foodplants |
|---|---|---|---|---|
| **2077** | **74.003** | SHORT-CLOAKED MOTH | Common | Hawthorn, Blackthorn, Crab Apple, Plum |
| **2087** | **73.319** | TURNIP MOTH | Common | Herbaceous plants |
| **2089** | **73.317** | HEART & DART | Common | Herbaceous plants |
| **2098** | **73.328** | FLAME | Common | Herbaceous Plants |
| **2102** | **73.329** | FLAME SHOULDER | Common | Herbaceous Plants |
| **2107** | **73.342** | LARGE YELLOW UNDERWING | Common | Herbaceous Plants, Grasses |
| **2109** | **73.345** | LESSER YELLOW UNDERWING | Common | Herbaceous Plants |
| **2110** | **73.343** | BROAD-BORDERED YELLOW UNDERWING | Common | Herbaceous Plants |
| **2111** | **73.348** | LESSER BROAD-BORDERED YELLOW UNDERWING | Common | Herbaceous Plants |
| **2112** | **73.346** | LEAST YELLOW UNDERWING | Common | Herbaceous Plants |
| **2123** | **73.334** | SMALL SQUARE-SPOT | Common | Herbaceous plants |
| **2126** | **73.359** | SETACEOUS HEBREW CHARACTER | Common | Herbaceous plants |
| **2128** | **73.361** | DOUBLE SQUARE-SPOT | Common | Herbaceous plants |
| **2134** | **73.357** | SQUARE-SPOT RUSTIC | Common | Grasses |
| **2160** | **73.267** | BRIGHT-LINE BROWN-EYE | Common | Herbaceous plants |
| **2173** | **73.281** | LYCHNIS | Common | Campions, Sweet-William |
| **2178** | **73.253** | FEATHERED GOTHIC | Common | Hard-bladed Grasses e.g. Mat-grass, Sheep's-fescue |
| **2182** | **73.245** | SMALL QUAKER | Common | Oak, Sallow etc. |
| **2187** | **73.244** | COMMON QUAKER | Common | Deciduous Trees |
| **2188** | **73.242** | CLOUDED DRAB | Common | Deciduous Trees |
| **2189** | **73.250** | TWIN-SPOTTED QUAKER | Common | Deciduous Trees |
| **2190** | **73.249** | HEBREW CHARACTER | Common | Deciduous Trees & Shrubs |
| **2192** | **73.290** | BROWN-LINE BRIGHT-EYE | Common | Grasses |
| **2193** | **73.298** | CLAY | Common | Grasses |
| **2194** | **73.297** | WHITE-POINT | Migrant | Grasses |
| **2198** | **73.293** | SMOKY WAINSCOT | Common | Grasses |
| **2199** | **73.291** | COMMON WAINSCOT | Common | Grasses |
| **2205** | **73.301** | SHOULDER-STRIPED WAINSCOT | Common | Grasses |
| **2256** | **73.210** | SATELLITE | Common | Oak, Beech, Aspen, Sallow, Hawthorn |
| **2259** | **73.195** | DARK CHESTNUT | Common | Deciduous Trees |
| **2262** | **73.192** | BRICK | Common | Sallow, Aspen, Poplar, Ash, Wych Elm |
| **2263** | **73.189** | RED-LINE QUAKER | Common | Willow, Sallow |
| **2267** | **73.186** | BEADED CHESTNUT | Common | Dock, Dandelion, Chickweed, Grasses, Deciduous Trees |
| **2269** | **73.219** | CENTRE-BARRED SALLOW | Common | Ash |
| **2270** | **73.193** | LUNAR UNDERWING | Common | Grasses |
| **2271** | **73.179** | ORANGE SALLOW | Common | Lime |
| **2278** | **73.046** | POPLAR GREY | Common | Willow, Sallow, Aspen |
| **2281** | **73.036** | ALDER MOTH | Local | Deciduous Trees |
| **2283** | **73.037** | DARK DAGGER | Common | Deciduous Trees & Shrubs |
| **2284x** | **73.038x** | Dark/Grey Dagger | Common | Deciduous Trees & Shrubs |
| **2289** | **73.045** | KNOT GRASS | Common | Herbaceous plants |
| **2291** | **73.047** | CORONET | Local | Ash, Wild Privet |
| **2297** | **73.062** | COPPER UNDERWING | Common | Deciduous Trees & Shrubs |
| **2299** | **73.064** | MOUSE MOTH | Common | Elm, Hawthorn, Sallow, Herbaceous plants |
| **2302** | **73.102** | BROWN RUSTIC | Common | Herbaceous plants |
| **2303** | **73.109** | STRAW UNDERWING | Common | Grasses |
| **2306** | **73.113** | ANGLE SHADES | Common | Herbaceous plants |
| **2318** | **73.216** | DUN-BAR | Common | Deciduous Trees & Shrubs |
| **2321** | **73.162** | DARK ARCHES | Common | Grasses |
| **2322** | **73.163** | LIGHT ARCHES | Common | Grasses |
| **2327** | **73.155** | CLOUDED BRINDLE | Common | Grasses |
| **2330** | **73.154** | DUSKY BROCADE | Common | Grasses |
| **2333** | **73.157** | LARGE NUTMEG | Local | Grasses |
| **2334** | **73.158** | RUSTIC SHOULDER-KNOT | Common | Grasses |
| **2337x** | **73.173x** | Marbled Minor agg. | Common | Grasses |

| B & F | New | Species Name | National Status | Foodplants |
|---|---|---|---|---|
| **2340** | **73.176** | MIDDLE-BARRED MINOR | Common | Grasses |
| **2341** | **73.172** | CLOAKED MINOR | Common | Grasses |
| **2343x** | **73.169x** | Common Rustic agg. | Common | Grasses |
| **2352** | **73.120** | DUSKY SALLOW | Common | Grasses |
| **2353** | **73.131** | FLOUNCED RUSTIC | Common | Grasses |
| **2361** | **73.123** | ROSY RUSTIC | Common | Herbaceous plants |
| **2369** | **73.136** | BULRUSH WAINSCOT | Common | Bulrush |
| **2380** | **73.101** | TREBLE LINES | Common | Herbaceous plants |
| **2381** | **73.096** | UNCERTAIN | Common | Herbaceous Plants |
| **2382** | **73.097** | RUSTIC | Common | Herbaceous Plants |
| **2384** | **73.099** | VINE'S RUSTIC | Local | Herbaceous Plants |
| **2387** | **73.092** | MOTTLED RUSTIC | Common | Herbaceous Plants |
| **2389** | **73.095** | PALE MOTTLED WILLOW | Common | Grass seeds |
| **2410** | **73.024** | MARBLED WHITE-SPOT | Common | Grasses |
| **2434** | **73.012** | BURNISHED BRASS | Common | Herbaceous plants |
| **2441** | **73.015** | SILVER Y | Migrant | Herbaceous plants |
| **2450** | **73.001** | SPECTACLE | Common | Common Nettle |
| **2473** | **72.069** | BEAUTIFUL HOOK-TIP | Local | Lichens |
| **2474** | **72.002** | STRAW DOT | Common | Grasses |
| **2477** | **72.003** | SNOUT | Common | Common Nettle |
| **2489** | **72.053** | FAN-FOOT | Common | Withered Leaves of Deciduous Trees |

## Appendix IV – Other Wildlife Recorded During Surveys

| | | | |
|---|---|---|---|
| Beetle | *Nicrophorus humator* | **1** | 15th June, 2021 |
| Beetle | Devil's Coachhorse (*Staphylinus olens*) | **2** | 7th September, 2021 |
| Caddis | Grouse-wing Caddis (*Mysticides longicornis*) | **59** | 15th June, 2021 |
| Caddis | Lunatic Caddis (*Limnephilus lunatus*) | **1** | 6th July, 2021 |
| Caddis | Lunatic Caddis (*Limnephilus lunatus*) | **17** | 18th November, 2020 |
| Cranefly | *Tipula maxima* | **1** | 15th June, 2021 |
| Grasshopper | Roesel's Bush-cricket (*Roeseliana roeselii*) | **1** | 15th June, 2021 |
| Grasshopper | Long-winged Conehead (*Conocephalus discolor*) | **1** | 7th September, 2020 |
| Orthoptera | Slender Groundhopper (*Tetrix subulata*) | **1** | 23rd March, 2021 |



Long-winged Conehead (*Conocephalus discolor*) 7th September, 2021

## Some Photos From Sun Rising 2021



1174 (49.292) (*Notocelia cynosbatella*) 15th June, 2021



Dawn arrives at Sun Rising 16th June, 2021



1634 (66.003) **Lackey** (*Malacosoma neustria*) 6th July, 2021



1063 (49.161) *Celypha striana* 7th August, 2021



1648 (65.005) **Pebble Hook-tip** (*Drepana falcataria*) 7th August, 2021



1913 (70.234) Canary-shouldered Thorn (*Ennomos alniaria*) 7th September, 2021



2271 (73.179) **Orange Sallow** (*Tiliacea citrago*) 7th September, 2021



1631 (66.001) **December Moth** (*Poecilocampa populi*) 18th November, 2021