Sun Rising NBG Moth Survey 2019 – A Brief Review



Alan Prior

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Cover Photo: 1991 (69.016) **Elephant Hawk-moth** (*Deilephila elpenor)* 25th June, 2019

All photos in this report taken at Sun Rising by A. Prior (Except where stated) © 2019

Sun Rising NBG Moth Surveys 2019

Introduction

Unfortunately, only four visits were made to Sun Rising during 2019. However, apart from the first very cold night in May the other three were very productive with over 1,000 moths recorded each time. Some exciting discoveries were made including a first record for Warwickshire and confirmation of some species expanding their range. There were some late finishes due to the volume of moths counted with dawn encountered a couple of times.

Visit 1 – 6th May, 2019

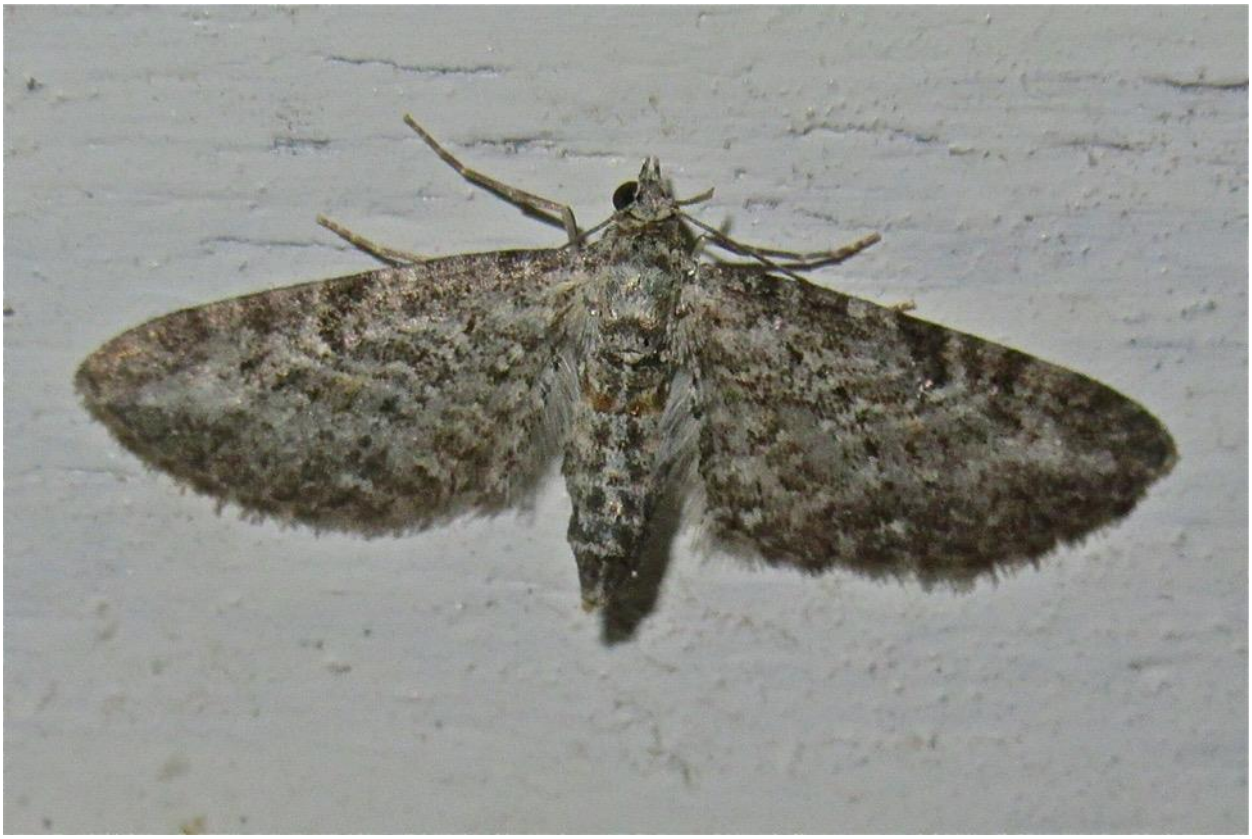
The year's moth recording at Sun Rising didn't begin until early May due to frequently unhelpful weather conditions. It had got to the point where any mediocre conditions were about the best you could hope for. I had been agonising over whether to bring the scheduled visit to Sun Rising forward 24 hours, as that looked the drier option. I was first to arrive although it wasn't long before the Pete's (Beasley & Smith) plus David had arrived. There was no hurry setting up the traps, as it was so cold. The first tour of the traps provided the good news that every one had moths in at least and we were all dry, so it was declared a success. About half past midnight it was decided to pack up and by the end 15 species had appeared. That was more than we expected on such a cold night. Even more unexpected was that **Brindled Beauty** and **Grey Shoulder-knot** were newly recorded at Sun Rising! So it was even more successful than first thought. Amongst the other species were ***Anclyis badiana***, **White-spotted Pug** and **Powdered Quaker**.



1927 **Brindled Beauty** (70.248) (*Lycia hirtaria*)
One of the two new species recorded on 6th February, 2019

Visit 2 – 25th June, 2019

In late June Peter and Chris joined me on a cloudy and misty night with a north-easterly breeze, but it was mild for Sun Rising and with all the low cloud I hoped it would stay that way for a change. I was a bit behind in setting up as I'd been chatting to David before he headed home, but it wasn't long before my two lights joined the other two in being switched on and attracting moths. While partaking of some refreshments it was noticed that there appeared to be quite a lot of moths piling into Peter's trap, so that required investigation. They were mainly the expected early arrivals but it looked like we were in for a busy night despite the quite weird weather conditions. There was the odd spot of drizzle at times, but we kept the low cloud and the temperature only went down very, very slowly. There was always plenty at the traps to keep everybody busy. When we got to Chris's trap we found that he had an unusual visitor – a Great Crested Newt. That was a first! It was cute and much bigger than the normal Smooth Newt's we often get investigating our traps. That was an exciting find and we all enjoyed seeing that. On a second tour the traps were still busy with more moths arriving all the time. It was decided to start to tally and as my traps weren't quite as busy as the other two I hoped to finish about the same time. I had just switched off the last trap and banged the boxes when the others arrived. The valley was really misty and we couldn't even see the top of Sun Rising Hill. We thought we would be somewhere around 100 species for the night, with a mystery Pug possibly being the highlight! Amongst the species recorded were ***Argyresthia spinosella***, ***Eucosma obumbratana***, ***Dichrorampha alpinana***, ***Rhodophaea formosa***, **Blood-vein**, **Large Twin-spot Carpet**, **Heart & Club, Clay, Coronet** and **Burnished Brass**. The 'mystery Pug' was later confirmed to be a worn **Shaded Pug**, an important new species for the site.



1840 (70.189) **Shaded Pug** (*Eupithecia subumbrata*)
Sun Rising 25th June, 2019

Visit 3 – 29th July, 2019

Again I had to rearrange the scheduled visit and bring it forward as the weather was due to be dreadful the following night. I followed Peter into the car park and after the initial greetings we got to setting up. Unfortunately, that was when a shower started, so it was a bit of a soggy set up. Half way through David arrived and so I was talking to him for a while and we watched a Brown Hare trundle down towards Peter, but as usual he never saw it! Once David went home I finished setting up and put the second trap inside the roundhouse. It looked a little bit spooky. The early showers passed and the rest of the night was thankfully dry and quite warm. Of course, that meant plenty of moths and so it took a while going through the traps. Some excitement started as I found what I felt sure was a county first. It was a pretty looking rosy-edged moth called ***Oncocera semirubella***. That was good enough, but when we got to the roundhouse trap we found another unfamiliar moth. This one turned out to be called ***Pyrausta nigrata*** and again, I suspected that it would be another county first. Wow! It turned out that someone had caught ***O. semirubella*** the night before somewhere else in the county, but ***P. nigrata*** was a first for Warwickshire, so I was half right. After enjoying the moment and one more break counting up was begun. It took quite a while and I then thought I might have found another new moth, but only for Peter this time. That turned out to be true too, as Peter correctly identified a **Least Carpet**. Dawn had broken by the time we'd finished loading up the cars. What a cracking night and great decision to bring the visit forward. Apart from the species already mentioned, some other new species for Sun Rising were ***Prochoreutis myllerana***, ***Caryocolum fraternella*** and ***Dichrorampha aeratana***. Amongst the macros were **Dark Umber**, **Scalloped Oak**, **Poplar Kitten**, **Muslin Footman**, **Least Yellow Underwing**, **Dusky Sallow** and **Herald**.



1366 (63.009) ***Pyrausta nigrata*** *(Photo: P. Beasley)*
A first record for Warwickshire. Sun Rising 29th July, 2019

Visit 4 – 27th August, 2019

Chris, Peter and Steve Chappell were already chatting away in the newly refurbished car park when I arrived. I then wandered over to say "Hello" to Emma and David, who were putting up some plaques on posts near the roundhouse then we got to setting up. While we were setting up Emma and David had gone home. It was a very mild night with barely a breath of wind. There was the odd drop of rain as an early round of the traps was done, but they seemed to pass. I wandered up to look at my trap and saw some Bats putting on a great display so decided to sit and watch them. While I was doing that the others wandered passed to the trap without ever knowing I was sitting a little way away in the dark. It was very funny seeing the bats fly so close to them without them knowing and I was well entertained for 10 minutes or so. The rain returned a while later and became a little heavier than earlier and so an umbrella over the trap was now required. The rain was fairly light, but kept coming and going all night. The early excitement was provided when a **White-point** had shown up in Chris's trap, which was new for both him and Peter. Because of the intermittent rain, Chris decided to pack up and Peter and Steve quickly followed. Chris had finished and I hadn't even started counting mine! Peter then finished and all I had managed to count by that point was 2 egg boxes! Chris and Peter both set off for home and left Steve and I to finish counting our traps. The last light went off around 3 am and it had proved a very productive night despite the slightly soggy conditions. Amongst the species recorded were ***Ypsolopha horridella***, ***Cochylis hybridella***, **Garden Pebble**, ***Oidaematophorus lithodactyla***, **Pale Eggar**, **Blue-bordered Carpet**, **Six-striped Rustic**, **Cabbage Moth** and **Vine's Rustic**.



2194 (73.297) **White-point** (*Mythimna albipuncta*)
A species that has been spreading its range over recent years and now appears to be a resident in Warwickshire. Sun Rising on 27th August, 2019

Summary

The facts and figures for the four visits were:
17 traps set, over 24 hours worth of recording, an average overnight temperature of 9˚C and over 4,000 individuals representing 225 species of moth with 19 newly recorded at Sun Rising including one new for Warwickshire. I was glad to be able to swop a couple of the originally scheduled night to the previous night as that certainly paid off.

Acknowledgements

I would like to thank Emma and David for their always warm welcome and enthusiasm for recording the moths at Sun Rising. I would also like to thank Pete Smith, Peter Beasley, Steve Chappell and Chris Johnson for contributing greatly on the recording nights.

Appendix I – Recording Details

Visit	Date	Traps	Temp	Time	Species	Recorders
1	6th May, 2019	5	3.1˚C	4h 15m	15	A. Prior/P. Beasley/P. Smith
2	25th June, 2019	4	13.6˚C	6h 30m	98	A. Prior/P. Beasley/C. Johnson
3	29th July, 2019	4	10.8˚C	7h 30m	131	A. Prior/ P. Beasley
4	27th August, 2019	4	15.2˚C	6h 15m	77	A. Prior/ P. Beasley/C. Johnson/S. Chappell
	TOTALS	17	11˚C Avg.	24h 30m	225	

Appendix II – The Complete List For 2019

B & F	New	Species Name	May	Jun	Jul	Aug	TOTAL	Comment
15	**3.001**	Orange Swift				25	**25**	
17	**3.002**	Common Swift		11			**11**	
228	**12.037**	*Monopis weaverella*			1		**1**	
266	**14.002**	*Bucculatrix nigricomella*			5		**5**	
294	**15.015**	*Aspilapteryx tringipennella*			1		**1**	
308	**15.032**	*Parornix finitimella*			1		**1**	
388	**48.002**	*Prochoreutis myllerana*			1		**1**	
417	**20.018**	*Argyresthia spinosella*		1			**1**	
426	**16.003**	*Yponomeuta malinellus*			1		**1**	
441	**16.020**	*Paraswammerdamia nebulella*			1		**1**	
455	**17.005**	*Ypsolopha scabrella*				1	**1**	
456	**17.006**	*Ypsolopha horridella*				1	**1**	
464	**18.001**	Diamond-back Moth		13	3	3	**19**	
516	**37.033**	*Coleophora trifolii*			1		**1**	
517	**37.035**	*Coleophora alcyonipennella*		2			**2**	
565	**37.083**	*Coleophora saxicolella*			1		**1**	
607	**38.037**	*Elachista canapennella*	1				**1**	
642	**28.014**	*Crassa unitella*			4	1	**5**	
648	**28.009**	White-shouldered House-moth				1	**1**	
658	**31.001**	*Carcina quercana*			1		**1**	
697	**32.017**	*Agonopterix arenella*				1	**1**	
731	**35.081**	*Eulamprotes atrella*			2		**2**	
787	**35.040**	*Bryotropha terrella*			4		**4**	
830	**35.132**	*Caryocolum fraternella*			1		**1**	1m Gen. Det. AP
868	**35.031**	*Helcystogramma rufescens*			1		**1**	
873	**41.002**	*Blastobasis adustella*			8	9	**17**	

B & F	New	Species Name	May	Jun	Jul	Aug	TOTAL	Comment
874	**41.003**	*Blastobasis lacticolella*		1	4		**5**	
936	**49.097**	*Cochylimorpha straminea*			35	4	**39**	
937	**49.109**	*Agapeta hamana*		6	17	3	**26**	
938	**49.110**	*Agapeta zoegana*			6		**6**	
965	**49.136**	*Cochylis hybridella*				1	**1**	
970	**49.025**	Barred Fruit-tree Tortrix		1			**1**	
972	**49.026**	Dark Fruit-tree Tortrix			4		**4**	
977	**49.013**	Large Fruit-tree Tortrix			1		**1**	
990	**49.032**	*Zelopherses unitana*		9			**9**	all large & grey
998	**49.039**	Light Brown Apple Moth				2	**2**	
1011	**49.091**	*Pseudargyrotoza conwagana*		12			**12**	
1014	**49.002**	*Isotrias rectifasciana*		2			**2**	
1020x	**49.050x**	*Cnephasia sp.*		4			**4**	
1020	**49.050**	*Cnephasia stephensiana*		1			**1**	
1022a	**49.053**	*Cnephasia pumicana*			2		**2**	Probable
1063	**49.161**	*Celypha striana*		6	53		**59**	
1076	**49.166**	*Celypha lacunana*		11	4	11	**26**	
1082	**49.157**	*Hedya pruniana*		4		1	**5**	
1083	**49.156**	*Hedya nubiferana*		6	2		**8**	
1086	**49.155**	*Hedya salicella*			2		**2**	
1087	**49.154**	*Orthotaenia undulana*		1			**1**	
1093	**49.150**	*Apotomis betuletana*			1		**1**	
1099	**49.188**	*Endothenia marginana*			1		**1**	
1108	**49.183**	*Lobesia abscisana*			8		**8**	
1126	**49.214**	*Ancylis badiana*	1		8		**9**	
1175	**49.294**	Bramble Shoot Moth		3			**3**	
1178	**49.295**	*Notocelia roborana*			2		**2**	
1200	**49.266**	*Eucosma hohenwartiana*		4			**4**	
1201	**49.265**	*Eucosma cana*			1		**1**	
1202	**49.264**	*Eucosma obumbratana*		2	3	1	**6**	1f Gen. Det. AP
1205	**49.224**	*Splionota ocellana*			2		**2**	
1260	**49.341**	*Cydia splendana*			3		**3**	
1274	**49.320**	*Dichrorampha alpinana*		3			**3**	1m2f Gen. Det. AP
1279	**49.313**	*Dichrorampha acuminatana*				3	**3**	1m Gen. Det. AP
1287	**49.311**	*Dichrorampha aeratana*			1		**1**	1m Gen. Det. AP
1293	**63.080**	*Chrysoteuchia culmella*		176	105		**281**	
1301	**63.086**	*Crambus lathoniellus*		19			**19**	
1302	**63.088**	*Crambus perlella*		4	5	7	**16**	
1303	**63.092**	*Agriphila selasella*				6	**6**	
1304	**63.093**	*Agriphila straminella*			161	10	**171**	
1305	**63.089**	*Agriphila tristella*			158	246	**404**	
1309	**63.095**	*Agriphila geniculea*				3	**3**	
1331	**63.115**	Water Veneer			7		**7**	
1333	**63.066**	*Scoparia pyralella*		4			**4**	
1334	**63.064**	*Scoparia ambigualis*		5	1		**6**	
1338	**63.067**	*Eudonia lacustrata*		2	2		**4**	
1344	**63.074**	*Eudonia mercurella*			3	4	**7**	
1348	**63.117**	Ringed China-mark			3		**3**	
1356	**63.057**	Garden Pebble		1		3	**4**	
1362	**63.007**	*Pyrausta purpuralis*			3	1	**4**	
1366	**63.009**	***Pyrausta nigrata***			1		**1**	New For VC 38
1376	**63.025**	Small Magpie		3			**3**	
1380	**63.020**	*Anania perlucidalis*		2			**2**	
1388	**63.033**	*Udea lutealis*			1		**1**	
1390	**63.034**	*Udea prunalis*			3		**3**	

B & F	New	Species Name	May	Jun	Jul	Aug	TOTAL	Comment
1392	**63.037**	*Udea olivalis*		5			**5**	
1405	**63.038**	Mother of Pearl			10	3	**13**	
1428	**62.001**	Bee Moth		1			**1**	
1439	**62.035**	*Acrobasis advenella*			3	1	**4**	
1441	**62.021**	*Oncocera semirubella*			1		**1**	2nd For VC 38
1445	**62.024**	*Rhodophaea formosa*		1			**1**	
1452	**62.029**	*Phycita roborella*			1		**1**	
1470	**62.048**	*Euzophera pinguis*			14		**14**	
1483	**62.058**	*Phycitodes binaevella*			2		**2**	
1497	**45.010**	*Amblyptilia acanthadactyla*				1	**1**	
1513	**45.030**	*Pterophorus pentadactyla*			1		**1**	
1523	**45.037**	*Oidaematophorus lithodactyla*				1	**1**	
1524	**45.044**	*Emmelina monodactyla*				1	**1**	
1632	**66.002**	PALE EGGAR				10	**10**	
1640	**66.010**	DRINKER			6		**6**	
1651	**65.007**	CHINESE CHARACTER			1	7	**8**	
1652	**65.008**	PEACH BLOSSOM		1			**1**	
1669	**70.305**	COMMON EMERALD		2	1		**3**	
1682	**70.029**	BLOOD-VEIN		2		2	**4**	
1699	**70.004**	LEAST CARPET			1		**1**	
1702	**70.013**	SMALL FAN-FOOTED WAVE		1	4		**5**	
1708	**70.011**	SINGLE-DOTTED WAVE			4		**4**	
1711	**70.012**	TREBLE BROWN SPOT				1	**1**	
1713	**70.016**	RIBAND WAVE		5	4		**9**	
1725	**70.052**	DARK-BARRED TWIN-SPOT CARPET			3		**3**	
1726	**70.055**	LARGE TWIN-SPOT CARPET		1			**1**	
1728	**70.049**	GARDEN CARPET				2	**2**	
1732	**70.045**	SHADED BROAD-BAR			49		**49**	
1738	**70.061**	COMMON CARPET			2	4	**6**	
1742	**70.059**	YELLOW SHELL		2	1	2	**5**	
1752	**70.087**	PURPLE BAR				6	**6**	
1758	**70.093**	BARRED STRAW		15			**15**	
1764	**70.097**	COMMON MARBLED CARPET				1	**1**	
1765	**70.085**	BARRED YELLOW		3			**3**	
1766	**70.084**	BLUE-BORDERED CARPET				1	**1**	
1768	**70.081**	GREY PINE CARPET		1			**1**	
1776	**70.100**	GREEN CARPET				12	**12**	
1792	**70.119**	DARK UMBER			1		**1**	
1803	**70.133**	SMALL RIVULET		1			**1**	
1825	**70.173**	LIME-SPECK PUG		1		6	**7**	
1830	**70.179**	WORMWOOD PUG		1			**1**	
1835	**70.160**	WHITE-SPOTTED PUG	1				**1**	
1840	**70.189**	SHADED PUG		1			**1**	1f Gen. Det. AP
1853	**70.157**	OAK-TREE PUG	2				**2**	
1884	**70.205**	MAGPIE MOTH			2		**2**	
1887	**70.207**	CLOUDED BORDER		2	1		**3**	
1904	**70.224**	SCORCHED WING		4			**4**	
1906	**70.226**	BRIMSTONE MOTH	4	8	1	29	**42**	
1913	**70.234**	CANARY-SHOULDERED THORN				2	**2**	
1914	**70.235**	DUSKY THORN			4	3	**7**	
1917	**70.237**	EARLY THORN			2	1	**3**	
1921	**70.241**	SCALLOPED OAK			12		**12**	
1922	**70.243**	SWALLOW-TAILED MOTH			2		**2**	
1927	**70.248**	BRINDLED BEAUTY	1				**1**	
1936	**70.257**	WAVED UMBER	2				**2**	

B & F	New	Species Name	May	Jun	Jul	Aug	TOTAL	Comment
1937	**70.258**	WILLOW BEAUTY		1	6	2	**9**	
1941	**70.265**	MOTTLED BEAUTY		8			**8**	
1956	**70.278**	COMMON WAVE		2			**2**	
1958	**70.280**	CLOUDED SILVER		12	1		**13**	
1961	**70.283**	LIGHT EMERALD		5		2	**7**	
1976	**69.006**	PRIVET HAWK-MOTH		3	1		**4**	
1979	**69.001**	LIME HAWK-MOTH		1			**1**	
1981	**69.003**	POPLAR HAWK-MOTH		2	3	1	**6**	
1991	**69.016**	ELEPHANT HAWK-MOTH		5	1		**6**	
1992	**69.017**	SMALL ELEPHANT HAWK-MOTH		1			**1**	
1994	**72.025**	BUFF-TIP		1	1		**2**	
1998	**71.007**	POPLAR KITTEN			1		**1**	
2000	**71.012**	IRON PROMINENT		1	1		**2**	
2003	**71.013**	PEBBLE PROMINENT			3		**3**	
2007	**71.017**	SWALLOW PROMINENT	1	1	6	3	**11**	
2030	**72.013**	YELLOW-TAIL			3		**3**	
2038	**72.036**	MUSLIN FOOTMAN			1		**1**	
2044	**72.044**	DINGY FOOTMAN			5		**5**	
2047	**72.046**	SCARCE FOOTMAN			3		**3**	
2050	**72.045**	COMMON FOOTMAN			31		**31**	
2060	**72.020**	WHITE ERMINE		1			**1**	
2061	**72.019**	BUFF ERMINE		6			**6**	
2064	**72.024**	RUBY TIGER			17		**17**	
2069	**72.031**	CINNABAR MOTH		1			**1**	
2088	**73.320**	HEART & CLUB		1			**1**	
2089	**73.317**	HEART & DART		159	8		**167**	
2092	**73.325**	SHUTTLE-SHAPED DART	3		2	1	**6**	
2098	**73.328**	FLAME		15			**15**	
2102	**73.329**	FLAME SHOULDER	1	10	3	40	**54**	
2107	**73.342**	LARGE YELLOW UNDERWING		24	76	241	**341**	
2109	**73.345**	LESSER YELLOW UNDERWING			15	11	**26**	
2110	**73.343**	BROAD-BORDERED YELLOW UNDERWING			5	2	**7**	
2111	**73.348**	LESSER BROAD-BORDERED YELLOW UNDERWING			18	10	**28**	
2112	**73.346**	LEAST YELLOW UNDERWING			7		**7**	
2126	**73.359**	SETACEOUS HEBREW CHARACTER		41		251	**292**	
2128	**73.361**	DOUBLE SQUARE-SPOT		1			**1**	
2133	**73.358**	SIX-STRIPED RUSTIC				10	**10**	
2134	**73.357**	SQUARE-SPOT RUSTIC				339	**339**	
2145	**73.255**	NUTMEG			1		**1**	
2154	**73.274**	CABBAGE MOTH				1	**1**	
2160	**73.267**	BRIGHT-LINE BROWN-EYE		3	3		**6**	
2178	**73.253**	FEATHERED GOTHIC				1	**1**	
2186	**73.247**	POWDERED QUAKER	1				**1**	
2187	**73.244**	COMMON QUAKER	1				**1**	
2188	**73.242**	CLOUDED DRAB	2				**2**	
2190	**73.249**	HEBREW CHARACTER	10				**10**	
2192	**73.290**	BROWN-LINE BRIGHT-EYE			47		**47**	
2193	**73.298**	CLAY		1	8		**9**	
2194	**73.297**	WHITE-POINT				2	**2**	
2198	**73.293**	SMOKY WAINSCOT			38	3	**41**	
2199	**73.291**	COMMON WAINSCOT		23	7	72	**102**	
2205	**73.301**	SHOULDER-STRIPED WAINSCOT		17			**17**	
2237	**73.202**	GREY SHOULDER-KNOT	1				**1**	
2269	**73.219**	CENTRE-BARRED SALLOW				7	**7**	
2283	**73.037**	DARK DAGGER			1		**1**	

B & F	New	Species Name	May	Jun	Jul	Aug	TOTAL	Comment
2284x	73.038x	Dark/Grey Dagger		2			2	
2289	73.045	KNOT GRASS			1		1	
2291	73.047	CORONET		2	2		4	
2297	73.062	COPPER UNDERWING			2	3	5	
2298	73.063	SVENSSON'S COPPER UNDERWING			1		1	
2299	73.064	MOUSE MOTH			1		1	
2302	73.102	BROWN RUSTIC		6			6	
2303	73.109	STRAW UNDERWING			1		1	
2306	73.113	ANGLE SHADES				10	10	
2318	73.216	DUN-BAR			3		3	
2321	73.162	DARK ARCHES		196	44	2	242	
2322	73.163	LIGHT ARCHES		9	1		10	
2326	73.156	CLOUDED-BORDERED BRINDLE		1			1	
2327	73.155	CLOUDED BRINDLE		1			1	
2333	73.157	LARGE NUTMEG		4			4	
2334	73.158	RUSTIC SHOULDER-KNOT		5			5	
2337x	73.173x	Marbled Minor agg.		13			13	
2340	73.176	MIDDLE-BARRED MINOR		44			44	
2341	73.172	CLOAKED MINOR			14		14	
2343x	73.169x	Common Rustic agg.			101	25	126	
2345	73.147	SMALL DOTTED BUFF		4	3		7	
2352	73.120	DUSKY SALLOW			51		51	
2353	73.131	FLOUNCED RUSTIC			1	25	26	
2361	73.123	ROSY RUSTIC				1	1	
2380	73.101	TREBLE LINES		9			9	
2381	73.096	UNCERTAIN		12	99		111	
2382	73.097	RUSTIC		6	23	1	30	
2384	73.099	VINE'S RUSTIC		4		4	8	
2387	73.092	MOTTLED RUSTIC		12	5		17	
2434	73.012	BURNISHED BRASS		1	1	1	3	
2439	73.022	GOLD SPOT				2	2	
2441	73.015	SILVER Y		2	1	2	5	
2450	73.001	SPECTACLE			2	2	4	
2469	72.001	HERALD			1		1	
2474	72.002	STRAW DOT		6	2	28	36	
2477	72.003	SNOUT		1	1		2	
225	19		32	1063	1467	1549	4111	



Dawn arrives at Sun Rising 30th July, 2019

Appendix III – National Status & Foodplants

B & F	New	Species Name	National Status	Foodplants
15	**3.001**	Orange Swift	Common	Bracken, Herbaceous plants
17	**3.002**	Common Swift	Common	Grasses, Herbaceous plants
228	**12.037**	*Monopis weaverella*	Common	Dead Organic Matter
266	**14.002**	*Bucculatrix nigricomella*	Local	Ox-eye Daisy
294	**15.015**	*Aspilapteryx tringipennella*	Common	Ribwort Plantain
308	**15.032**	*Parornix finitimella*	Common	Blackthorn
388	**48.002**	*Prochoreutis myllerana*	**Nb**	Skullcap
417	**20.018**	*Argyresthia spinosella*	Common	Blackthorn
426	**16.003**	*Yponomeuta malinellus*	Local	Apple
441	**16.020**	*Paraswammerdamia nebulella*	Common	Hawthorn, Rowan
455	**17.005**	*Ypsolopha scabrella*	Common	Apple, Blackthorn, Cotoneaster
456	**17.006**	*Ypsolopha horridella*	**Nb**	Apple, Blackthorn
464	**18.001**	Diamond-back Moth	Migrant	Brassicacea
516	**37.033**	*Coleophora trifolii*	Local	Melilot
517	**37.035**	*Coleophora alcyonipennella*	Local	White Clover
565	**37.083**	*Coleophora saxicolella*	Local	Orache, Goosefoot
607	**38.037**	*Elachista canapennella*	Common	Grasses
642	**28.014**	*Crassa unitella*	Common	Dead Wood
648	**28.009**	White-shouldered House-moth	Common	Dead Organic Matter
658	**31.001**	*Carcina quercana*	Common	Deciduous Trees & Bushes
697	**32.017**	*Agonopterix arenella*	Common	Apiaceae
731	**35.081**	*Eulamprotes atrella*	Local	St. John's-wort
787	**35.040**	*Bryotropha terrella*	Common	Mosses, Grasses
830	**35.132**	*Caryocolum fraternella*	Local	Bog Stitchwort, Common Mouse-ear
868	**35.031**	*Helcystogramma rufescens*	Common	Wood Small-reed, False Brome
873	**41.002**	*Blastobasis adustella*	Common	Withered plant material
874	**41.003**	*Blastobasis lacticolella*	Common	Withered plant material
936	**49.097**	*Cochylimorpha straminea*	Common	Common Knapweed
937	**49.109**	*Agapeta hamana*	Common	Thistles
938	**49.110**	*Agapeta zoegana*	Common	Common Knapweed, Scabious
965	**49.136**	*Cochylis hybridella*	Local	Oxtongue, Hawk's-beard
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
1014	**49.002**	*Isotrias rectifasciana*	Local	Hawthorn, Elm
1020x	**49.050x**	*Cnephasia sp.*	–	–
1020	**49.050**	*Cnephasia stephensiana*	–	Herbaceous plants
1022a	**49.053**	*Cnephasia pumicana*	Local	Cereal, Grasses, Legumes, Flax
1063	**49.161**	*Celypha striana*	Common	Dandelion
1076	**49.166**	*Celypha lacunana*	Common	Herbaceous plants
1082	**49.157**	*Hedya pruniana*	Common	Cherry, Blackthorn, Plum
1083	**49.156**	*Hedya nubiferana*	Common	Roseaceous Trees & Shrubs
1086	**49.155**	*Hedya salicella*	Common	Willow, Poplar
1087	**49.154**	*Orthotaenia undulana*	Common	Herbaceous Plants, Trees & Shrubs
1093	**49.150**	*Apotomis betuletana*	Common	Birch
1099	**49.188**	*Endothenia marginana*	Common	Teasel, Betony, hemp-nettle
1108	**49.183**	*Lobesia abscisana*	Common	Creeping Thistle
1126	**49.214**	*Ancylis badiana*	Common	Pea, Vetch, Clover

B & F	New	Species Name	National Status	Foodplants
1175	49.294	Bramble Shoot Moth	Common	Bramble
1178	49.295	*Notocelia roborana*	Common	Rose
1200	49.266	*Eucosma hohenwartiana*	Common	Common Knapweed. Saw-wort
1201	49.265	*Eucosma cana*	Common	Common Knapweed. Thistle
1202	49.264	*Eucosma obumbratana*	Local	Perennial Sow-Thistle
1205	49.224	*Splionota ocellana*	Common	Deciduous Trees & Shrubs
1260	49.341	*Cydia splendana*	Common	Oak, Sweet Chestnut
1274	49.320	*Dichrorampha alpinana*	Local	Oxeye Daisy
1279	49.313	*Dichrorampha acuminatana*	Local	Yarrow, Tansy
1287	49.311	*Dichrorampha aeratana*	Local	Oxeye Daisy
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
1303	63.092	*Agriphila selasella*	Local	Grasses
1304	63.093	*Agriphila straminella*	Common	Grasses
1305	63.089	*Agriphila tristella*	Common	Grasses esp. hair-grass, meadow-grass
1309	63.095	*Agriphila geniculea*	Common	Grasses
1331	63.115	Water Veneer	Common	submerged pond & freshwater plants
1333	63.066	*Scoparia pyralella*	Common	Decaying vegetation & roots
1334	63.064	*Scoparia ambigualis*	Common	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
1356	63.057	Garden Pebble	Common	Cabbage, Radish
1362	63.007	*Pyrausta purpuralis*	Common	Corn Mint, Thyme
1366	63.009	***Pyrausta nigrata***	Local	Wild Marjoram, Thyme etc.
1376	63.025	Small Magpie	Common	Common Nettle
1380	63.020	*Anania perlucidalis*	Common	Thistles
1388	63.033	*Udea lutealis*	Common	Herbaceous plants
1390	63.034	*Udea prunalis*	Common	Herbaceous plants
1392	63.037	*Udea olivalis*	Common	Herbaceous plants
1405	63.038	Mother of Pearl	Common	Common Nettle
1428	62.001	Bee Moth	Common	Honeycomb in Bees nests
1439	62.035	*Acrobasis advenella*	Common	Hawthorn, Rowan
1441	62.021	*Oncocera semirubella*	**Nb**	Bird's-foot Trefoil, Clover
1445	62.024	*Rhodophaea formosa*	Local	Elm
1452	62.029	*Phycita roborella*	Common	Oak, Apple, Pear
1470	62.048	*Euzophera pinguis*	Common	Ash
1483	62.058	*Phycitodes binaevella*	Common	Thistle
1497	45.010	*Amblyptilia acanthadactyla*	Common	Herbaceous plants
1513	45.030	*Pterophorus pentadactyla*	Common	Bindweed
1523	45.037	*Oidaematophorus lithodactyla*	Local	Ploughman's-spikenard, Common Fleabane
1524	45.044	*Emmelina monodactyla*	Common	Bindweed
1632	66.002	PALE EGGAR	Common	Oak, Birch, Sallow, Blackthorn, Hawthorn, Hazel, Crab Apple
1640	66.010	DRINKER	Common	Grasses
1651	65.007	CHINESE CHARACTER	Common	Hawthorn, Blackthorn
1652	65.008	PEACH BLOSSOM	Common	Peach Blossom
1669	70.305	COMMON EMERALD	Common	Deciduous Trees & Shrubs
1682	70.029	BLOOD-VEIN	Common	Dock, Sorrel, Knotgrass
1699	70.004	LEAST CARPET	Local	Ivy, Traveller's Joy, Golden Alyssum etc.
1702	70.013	SMALL FAN-FOOTED WAVE	Common	Dandelion, Knotgrass, Plantain, Bramble
1708	70.011	SINGLE-DOTTED WAVE	Common	Cow Parsley, Burnet-saxifrage, Hedge Bedstraw
1711	70.012	TREBLE BROWN SPOT	Local	Herbaceous plants
1713	70.016	RIBAND WAVE	Common	Bedstraws, Dandelion. Dock
1725	70.052	DARK-BARRED TWIN-SPOT CARPET	Common	Low Growing Plants

B & F	New	Species Name	National Status	Foodplants
1726	70.055	LARGE TWIN-SPOT CARPET	Local	Herbaceous Plants
1728	70.049	GARDEN CARPET	Common	Herbaceous Plants
1732	70.045	SHADED BROAD-BAR	Common	Vetches, Clovers
1738	70.061	COMMON CARPET	Common	Bedstraws
1742	70.059	YELLOW SHELL	Common	Low Growing Plants
1752	70.087	PURPLE BAR	Common	Bedstraws
1758	70.093	BARRED STRAW	Common	Bedstraws
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
1768	70.081	GREY PINE CARPET	Common	Conifers
1776	70.100	GREEN CARPET	Common	Bedstraws
1792	70.119	DARK UMBER	Local	Buckthorn, Alder Buckthorn
1803	70.133	SMALL RIVULET	Common	Hemp-nettle
1825	70.173	LIME-SPECK PUG	Common	Low Growing Plants
1830	70.179	WORMWOOD PUG	Common	Herbaceous plants
1835	70.160	WHITE-SPOTTED PUG	Local	Elder, Herbaceous plants
1840	70.189	SHADED PUG	Local	Herbaceous plants
1853	70.157	OAK-TREE PUG	Common	Oak, 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
1917	70.237	EARLY THORN	Common	Deciduous Trees
1921	70.241	SCALLOPED OAK	Common	Deciduous Trees & Shrubs
1922	70.243	SWALLOW-TAILED MOTH	Common	Honeysuckle, Ivy, Hawthorn & other trees/shrubs
1927	70.248	BRINDLED BEAUTY	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
1956	70.278	COMMON WAVE	Common	Willow, Sallow, Aspen, Poplar
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
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	72.025	BUFF-TIP	Common	Deciduous Trees & Shrubs
1998	71.007	POPLAR KITTEN	Local	Sallow, Aspen, Poplar
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
2030	72.013	YELLOW-TAIL	Common	Willow, Sallow, Aspen, Poplar
2038	72.036	MUSLIN FOOTMAN	Local	Lichens
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
2069	72.031	CINNABAR MOTH	Common	Common Ragwort, Groundsels
2088	73.320	HEART & CLUB	Common	Herbaceous plants

B & F	New	Species Name	National Status	Foodplants
2089	73.317	HEART & DART	Common	Herbaceous plants
2092	73.325	SHUTTLE-SHAPED 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
2126	73.359	SETACEOUS HEBREW CHARACTER	Common	Herbaceous plants
2128	73.361	DOUBLE SQUARE-SPOT	Common	Herbaceous plants
2133	73.358	SIX-STRIPED RUSTIC	Common	Herbaceous plants
2134	73.357	SQUARE-SPOT RUSTIC	Common	Grasses
2145	73.255	NUTMEG	Common	Herbaceous plants
2154	73.274	CABBAGE MOTH	Common	Herbaceous plants
2160	73.267	BRIGHT-LINE BROWN-EYE	Common	Herbaceous plants
2178	73.253	FEATHERED GOTHIC	Common	Hard-bladed Grasses e.g. Mat-grass, Sheep's-fescue
2186	73.247	POWDERED QUAKER	Common	Willow, Blackthorn, Black Poplar, Herbaceous plants
2187	73.244	COMMON QUAKER	Common	Deciduous Trees
2188	73.242	CLOUDED DRAB	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
2237	73.202	GREY SHOULDER-KNOT	Common	Deciduous Trees & Shrubs
2269	73.219	CENTRE-BARRED SALLOW	Common	Ash
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
2298	73.063	SVENSSON'S COPPER UNDERWING	Common	Deciduous Trees
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
2326	73.156	CLOUDED-BORDERED BRINDLE	Common	Grasses
2327	73.155	CLOUDED BRINDLE	Common	Grasses
2333	73.157	LARGE NUTMEG	Local	Grasses
2334	73.158	RUSTIC SHOULDER-KNOT	Common	Grasses
2337x	73.173x	Marbled Minor agg.	–	Grasses
2340	73.176	MIDDLE-BARRED MINOR	Common	Grasses
2341	73.172	CLOAKED MINOR	Common	Grasses
2343x	73.169x	Common Rustic agg.	Common	Grasses
2345	73.147	SMALL DOTTED BUFF	Common	Tufted Hair-grass
2352	73.120	DUSKY SALLOW	Common	Grasses
2353	73.131	FLOUNCED RUSTIC	Common	Grasses
2361	73.123	ROSY RUSTIC	Common	Herbaceous plants
2380	73.101	TREBLE LINES	Common	Herbaceous plants

B & F	New	Species Name	National Status	Foodplants
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
2434	**73.012**	BURNISHED BRASS	Common	Herbaceous plants
2439	**73.022**	GOLD SPOT	Common	Grasses, Sedges, Yellow Iris
2441	**73.015**	SILVER Y	Migrant	Herbaceous plants
2450	**73.001**	SPECTACLE	Common	Common Nettle
2469	**72.001**	HERALD	Common	Willow, Sallow, Poplar
2474	**72.002**	STRAW DOT	Common	Grasses
2477	**72.003**	SNOUT	Common	Common Nettle

Appendix IV – Other Wildlife Recorded During Survey

Amphibian	Great Crested Newt (*Triturus cristatus*)	**1**	25th June, 2019
Beetle	*Nicrophorus humator*	**1**	6th May, 2019
Beetle	Devil's Coachhorse (*Staphylinus olens*)	**1**	27th August, 2019
Beetle	Violet Ground Beetle (*Carabus sp.*)	**7**	27th August, 2019
Caddis	*Stenophylax permistus*	**4**	6th May, 2019
Caddis	Cut-out Caddis (*Glyphotaelius pellucidus*)	**2**	27th August, 2019
Caddis	Lunatic Caddis (*Limnephilus lunatus*)	**1**	27th August, 2019
Caddis	Grouse-wing Caddis (*Mysticides longicornis*)	**1**	27th August, 2019
Shieldbug	Red-legged Shieldbug (*Pentatoma rufipes*)	**4**	27th August, 2019
True Bug	Greater Water Boatman (*Notonecta glauca*)	**3**	27th August, 2019
True Bug	Lesser Water Boatman (*Corixa punctata*)	**25**	27th August, 2019



Great Crested Newt (*Triturus cristatus*)
Sun Rising 25th June, 2019

Some Photos From Sun Rising 2019



388 (48.002) ***Prochoreutis myllerana*** 29th July, 2019 *(Photo. P. Beasley)*



1441 (62.021) ***Oncocera semirubella*** 29th July, 2019



1445 (62.024) ***Rhodophaea formosa*** 25th June, 2019



2088 (73.320) **Heart & Club** (*Agrotis clavis*) 25th June, 2019 *(Photo. P. Beasley)*



2237 (73.202) **Grey Shoulder-knot** (*Lithophane ornitopus*) 6th May, 2019



2450 (73.001) **Spectacle** (*Abrostola tripartita*) 29th July, 2019



2469 (72.001) **Herald** (*Scoliopteryx libatrix*) 29th July, 2019



A misty morning at Sun Rising 26th June, 2019