Sun Rising NBG Moth Survey 2016 - A Brief Review



Alan Prior

Table of Contents

Introduction 2

Visit 1 – 21st April, 2016 2

Visit 2 – 14th June, 2016 3

Visit 3 – 23rd August, 2016 4

Visit 4 – 20th September, 2016 5

Summary 5

Acknowledgements 5

Appendix I – Recording Details 6

Appendix II – The Complete List 2014/5 6

Appendix III – National Status & Foodplants 10

Appendix IV – Other Wildlife Recorded During Survey 14

Some Photos From Sun Rising 2014/5 14

Cover Photo: Merveille Du Jour (*Griposia aprilina*) 20th September, 2016

All photos in this report by A. Prior © 2016 (Except where stated)

Sun Rising NBG Moth Surveys 2016

Introduction

After last years reasonable start at recording the moths of Sun Rising, despite the mainly cold weather, another four visits were scheduled for 2016. The dates were chosen to maximize the chances of recording species that were missed previously. As always though, the weather plays a major part in achieving that target. 2016 was not a particularly good year for moths, but the weather did go in our favour more so when visiting Sun Rising than in 2015.

Visit 1 – 21st April, 2016

Being greeted by a cold and nagging breeze was a familiar theme suffered on many occasions the previous year and unfortunately, the first visit of 2016 continued that trend! With all four traps being sited in the most sheltered positions possible it was to be a slow night moth wise. However, by the end ten species had been recorded with a couple being newly recorded at Sun Rising. So not a complete disappointment and **Streamer** (*Anticlea derivata*) is always a nice moth to see.



667 (32.002) *Semioscopis steinkellneriana*
One of the two new species recorded on 21st April, 2016

Visit 2 – 14th June, 2016

With the temperature around 13°C warmer than the previous year not even the odd bit of light drizzle could dampen spirits this time round. A spectacular display by male **Ghost Moth**s (*Hepialus humuli*) at dusk was particularly enjoyable. The display area was due to be cut for hay imminently, which was a bit of a worry. However, agreement was reached to leave the area alone until August, for which I'm sure the moths were truly grateful! It proved to be a fairly busy and productive night with over 500 moths recorded, representing 74 species with ten being newly recorded for Sun Rising. Amongst the highlights were ***Elachista argentella, Hedya ochroleucana*** and **Shark** (*Cucullia umbratica*). Although they probably weren't for one recorder who had a WOW moment as he saw his first ever **Privet Hawk-moth** (*Sphinx ligustri*) at the end of the night!



1976 (69.006) Privet Hawk-moth (*Sphinx ligustri*) 14th June, 2016
(*Photo: P. Smith*)

Visit 3 – 23rd August, 2016

Despite the widely scattered cloud it proved to be a warm night at Sun Rising. A slight southerly breeze helped keep the temperature high and traps didn't have to seek shelter in their normal hedge locations for a change. It proved to be a very busy night with one tour of the seven traps taking a couple of hours to complete. There was lots of interesting species to view, with plenty being newly recorded for the site. There were good totals for some species such as ***Agriphila tristella*** (174), **Brown China-mark** (*Elophila nymphaeata*) (33), **Brimstone Moth** (*Opisthograptis luteolata*) (169), **Dusky Thorn** (*Ennomos fuscantaria*) (52), **Flame Shoulder** (*Ochropleura plecta*) (124), **Small Square-spot** (*Diarsia rubi*) (168) and **Square-spot Rustic** (*Xestia xanthographa*) (137). Amongst the highlights were ***Caloptilia semifascia***, **Rabbit Moth** (*Ypsolopha sequella*), **Vestal** (*Rhodometra sacraria*), **Feathered Gothic** (*Tholera decimalis*), **Bulrush Wainscot** (*Nonagria typhae*) and **Gold Spot** (*Plusia festucae*). Overall nearly 1,500 moths representing 118 species were recorded with 31 being new for the site.



462 (17.012) Rabbit Moth (*Ypsolopha sequella*) 23rd August, 2016

Visit 4 – 20th September, 2016

Five traps were set up this time in the more traditional spots. With variable amounts of cloud drifting past the temperature went up and down regularly, but the lack of wind was the real bonus. A far better than expected night was enjoyed with a very acceptable 39 species being recorded. **Lunar Underwing** (*Omphaloscelis lunosa*) provided almost a third of almost 300 individual moths counted with a total of 84. Half a dozen species were newly recorded at Sun Rising which was a very satisfactory outcome. They included **Black Rustic** (*Aporophyla nigra*), **Brick** (*Agrochola circellaris*), **Beaded Chestnut** (*Agrochola lychnidis*) and everyone's favourite, **Merveille Du Jour** (*Griposia aprilina*) – See front cover.



2232 (73.233) Black Rustic (*Aporophyla nigra*) 20th September, 2016

Summary

The facts and figures for the four visits were:-
20 traps set, over 25 hours worth of recording, an average overnight temperature of 10°C (much better than 2015) and 189 species of moth recorded with 49 newly recorded at Sun Rising.
The better conditions certainly made a big difference in 2016 with both moths and recorders enjoying the result in a generally below average year for moths.

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, Nigel Stone, and Chris Johnson for contributing greatly on the recording nights.

Appendix I – Recording Details

Visit	Date	Traps	Temp	Time	Species	Recorders
1	21st April, 2016	4	6.3°C	5h 30m	10	A. Prior/P. Beasley/P. Smith
2	14th June, 2016	4	12.0°C	6h 30m	74	A. Prior/P. Beasley/P. Smith
3	23rd August, 2016	7	12.9°C	7h 15m	118	A. Prior/P. Beasley/P. Smith/N. Stone/C. Johnson
4	20th September, 2016	5	9.0°C	6h 10m	39	A. Prior/P. Beasley/P. Smith
	TOTALS	20	10°C Avg.	25h 25m	189	

Appendix II – The Complete List For 2016

B & F	New	Species Name	Apr	Jun	Aug	Sep	TOTAL	Comment
14	3.005	Ghost Moth		36			36	
15	3.001	Orange Swift			27		27	
17	3.002	Common Swift		79			79	
228	12.037	*Monopis weaverella*			1		1	
266	14.002	*Bucculatrix nigricomella*			1	5	6	1m Gen. Det. AP
290	15.012	*Caloptilia semifascia*			1		1	
294	15.015	*Aspilapteryx tringipennella*			2		2	
419	20.020	*Argyresthia semifusca*			1		1	
421	20.022	*Argyresthia bonnetella*			2		2	1f Gen. Det. NS
424	16.001	*Yponomeuta evonymella*			1		1	
425	16.002	*Yponomeuta padella*			1		1	
426	16.003	*Yponomeuta malinellus*			1		1	
441	16.020	*Paraswammerdamia nebulella*			2		2	
449	22.002	*Prays fraxinella*		2	1		3	1m Gen. Det. NS
455	17.005	*Ypsolopha scabrella*			2		2	
456	17.006	*Ypsolopha horridella*			2		2	
462	17.012	*Ypsolopha sequella*			1		1	
464	18.001	Diamond-back Moth		15	9	2	26	
473	19.011	Leek Moth			1		1	1f Gen. Det. NS
517	37.035	*Coleophora alcyonipennella*			1		1	1m Gen. Det. NS
519	37.046	*Coleophora deauratella*			1		1	1m Gen. Det. AP
607	38.037	*Elachista canapennella*		1	2		3	
610	38.004	*Elachista argentella*		2			2	
667	32.002	*Semioscopis steinkellneriana*	1				1	
688	32.018	*Agonopterix heracliana*	1				1	
691	32.009	*Agonopterix purpurea*			1		1	
695	32.031	*Agonopterix alstromeriana*			1		1	
697	32.017	*Agonopterix arenella*			4	1	5	
792	35.093	*Mirificarma mulinella*			1		1	1f Gen. Det. AP
819	35.123	*Scrobipalpa costella*			1	2	3	
843	35.010	*Aproaerema anthyllidella*			1		1	1m Gen. Det. NS
873	41.002	*Blastobasis adustella*			39	1	40	
874	41.003	*Blastobasis lacticolella*		3	2		5	
880	40.011	*Mompha langiella*			1		1	
936	49.097	*Cochylimorpha straminea*		9	23		32	
937	49.109	*Agapeta hamana*		1	5	1	7	
989	49.031	Timothy Tortrix		11			11	
994	49.038	*Clepsis consimilana*			1		1	

B & F	New	Species Name	Apr	Jun	Aug	Sep	TOTAL	Comment
998	49.039	Light Brown Apple Moth			5	3	8	
1011	49.091	*Pseudargyrotoza conwagana*		6			6	
1014	49.002	*Isotrias rectifasciana*		1			1	
1038	49.066	*Acleris laterana*			4		4	
1048	49.077	Garden Rose Tortrix				1	1	
1063	49.161	*Celypha striana*		1	10		11	
1076	49.166	*Celypha lacunana*		4	24	1	29	
1082	49.157	*Hedya pruniana*		5			5	
1084	49.158	*Hedya ochroleucana*		1			1	
1099	49.188	*Endothenia marginana*			2		2	
1126	49.214	*Ancylis badiana*			3		3	
1174	49.292	*Notocelia cynosbatella*		4			4	
1176	49.298	*Notocelia trimaculana*		1			1	
1200	49.266	*Eucosma hohenwartiana*		1			1	
1201	49.265	*Eucosma cana*		7			7	
1205	49.224	*Spilonota ocellana*			1		1	
1233	49.376	*Pammene aurita*			2		2	1f Gen. Det. NS
1260	49.341	*Cydia splendana*			1		1	
1292	63.079	*Calamotropha paludella*			1		1	
1293	63.080	*Chrysoteuchia culmella*		8			8	
1294	63.081	*Crambus pascuella*		1			1	
1301	63.086	*Crambus lathoniellus*		18			18	
1302	63.088	*Crambus perlella*			2		2	
1304	63.093	*Agriphila straminella*			31		31	
1305	63.089	*Agriphila tristella*			174		174	
1309	63.095	*Agriphila geniculea*			3		3	
1316	63.102	*Catoptria falsella*			3		3	
1331	63.115	Water Veneer			5		5	
1334	63.064	*Scoparia ambigualis*		6			6	
1338	63.067	*Eudonia lacustrata*			3		3	
1342	63.069	*Eudonia angustea*				2	2	
1344	63.074	*Eudonia mercurella*			5		5	
1345	63.114	Brown China-mark			33		33	
1348	63.117	Ringed China-mark			6		6	
1361	63.006	*Pyrausta aurata*			2		2	
1376	63.025	Small Magpie		2			2	
1388	63.033	*Udea lutealis*			5		5	
1392	63.037	*Udea olivalis*		2			2	
1395	63.031	Rusty-dot Pearl			1	1	2	
1398	63.052	Rush Veneer			1		1	
1405	63.038	Mother of Pearl			4		4	
1439	62.035	*Acrobasis advenella*			5		5	
1470	62.048	*Euzophera pinguis*			1		1	
1524	45.044	*Emmelina monodactyla*			1	1	2	
1632	66.002	PALE EGGAR			1		1	
1663	70.245	MARCH MOTH	1				1	
1682	70.029	BLOOD-VEIN		7	3		10	
1708	70.011	SINGLE-DOTTED WAVE			1		1	
1716	70.038	VESTAL			1		1	
1727	70.054	SILVER-GROUND CARPET		14			14	
1728	70.049	GARDEN CARPET			1		1	
1732	70.045	SHADED BROAD-BAR			1		1	
1738	70.061	COMMON CARPET			13		13	
1742	70.059	YELLOW SHELL		1	11		12	
1746	70.066	SHOULDER STRIPE	2				2	

B & F	New	Species Name	Apr	Jun	Aug	Sep	TOTAL	Comment
1747	70.067	STREAMER	2				2	
1764	70.097	COMMON MARBLED CARPET		8	3	15	26	
1776	70.100	GREEN CARPET		5	5	1	11	
1803	70.133	SMALL RIVULET			1		1	
1812	70.148	MAPLE PUG			1		1	
1819	70.184	MOTTLED PUG		5			5	
1825	70.173	LIME-SPECK PUG		1			1	
1860	70.144	GREEN PUG		2			2	
1883	70.200	YELLOW-BARRED BRINDLE			3		3	
1884	70.205	MAGPIE MOTH			6		6	
1887	70.207	CLOUDED BORDER			2		2	
1902	70.222	BROWN SILVER-LINE		1			1	
1904	70.224	SCORCHED WING		6			6	
1906	70.226	BRIMSTONE MOTH		4	169	5	178	
1907	70.227	BORDERED BEAUTY			1		1	
1913	70.234	CANARY-SHOULDERED THORN			2		2	
1914	70.235	DUSKY THORN			52	3	55	
1915	70.236	SEPTEMBER THORN			2		2	
1937	70.258	WILLOW BEAUTY			2	3	5	
1941	70.265	MOTTLED BEAUTY		6			6	
1947	70.270	ENGRAILED			1		1	
1955	70.277	COMMON WHITE WAVE		2			2	
1956	70.278	COMMON WAVE			2		2	
1958	70.280	CLOUDED SILVER		10			10	
1961	70.283	LIGHT EMERALD				1	1	
1976	69.006	PRIVET HAWK-MOTH		1			1	
1980	69.002	EYED HAWK-MOTH*		1			1	
1981	69.003	POPLAR HAWK-MOTH		2	2		4	
1991	69.016	ELEPHANT HAWK-MOTH		1			1	
1994	71.025	BUFF-TIP		1			1	
1997	71.005	SALLOW KITTEN		1	1		2	
2003	71.013	PEBBLE PROMINENT			1		1	
2007	71.017	SWALLOW PROMINENT			1		1	
2011	71.020	PALE PROMINENT		1			1	
2028	72.015	PALE TUSSOCK		1			1	
2060	72.020	WHITE ERMINE		2			2	
2061	72.019	BUFF ERMINE		8			8	
2089	73.317	HEART & DART		23			23	
2098	73.328	FLAME		5			5	
2102	73.329	FLAME SHOULDER		8	124		132	
2107	73.342	LARGE YELLOW UNDERWING		1	31	22	54	
2109	73.345	LESSER YELLOW UNDERWING				1	1	
2110	73.343	BROAD-BORDERED YELLOW UNDERWING			1	1	2	
2111	73.348	LESSER BROAD-BORDERED YELLOW UNDERWING			28		28	
2120	73.333	INGRAILED CLAY		1			1	
2123	73.334	SMALL SQUARE-SPOT		38	168	4	210	
2126	73.359	SETACEOUS HEBREW CHARACTER		9	38	44	91	
2133	73.358	SIX-STRIPED RUSTIC			10		10	
2134	73.357	SQUARE-SPOT RUSTIC			137	22	159	
2160	73.267	BRIGHT-LINE BROWN-EYE		2	1		3	
2178	73.253	FEATHERED GOTHIC			4		4	
2182	73.245	SMALL QUAKER	1				1	
2186	73.247	POWDERED QUAKER	2				2	
2187	73.244	COMMON QUAKER	5				5	
2188	73.242	CLOUDED DRAB	10				10	

B & F	New	Species Name	Apr	Jun	Aug	Sep	TOTAL	Comment
2190	73.249	HEBREW CHARACTER	10				10	
2199	73.291	COMMON WAINSCOT			8	7	15	
2205	73.301	SHOULDER-STRIPED WAINSCOT		5			5	
2216	73.052	SHARK		1			1	
2232	73.233	BLACK RUSTIC				18	18	
2247	73.224	MERVEILLE DU JOUR				2	2	
2262	73.192	BRICK				1	1	
2266	73.187	BROWN-SPOT PINION				16	16	
2267	73.186	BEADED CHESTNUT				7	7	
2269	73.219	CENTRE-BARRED SALLOW			3	2	5	
2270	73.193	LUNAR UNDERWING				84	84	
2291	73.047	CORONET			1		1	
2297	73.062	COPPER UNDERWING				1	1	
2298	73.063	SVENSSON'S COPPER UNDERWING			2	1	3	
2299	73.064	MOUSE MOTH			1		1	
2302	73.102	BROWN RUSTIC		10			10	
2306	73.113	ANGLE SHADES		3	7	5	15	
2321	73.162	DARK ARCHES			5		5	
2326	73.156	CLOUDED-BORDERED BRINDLE		2			2	
2331	73.159	SMALL CLOUDED BRINDLE		2			2	
2333	73.157	LARGE NUTMEG		8			8	
2334	73.158	RUSTIC SHOULDER-KNOT		10			10	
2337x	73.173x	Marbled Minor agg.		9			9	
2338	73.175	RUFOUS MINOR		1			1	1m Gen. Det. AP
2339	73.174	TAWNY MARBLED MINOR		3			3	3m Gen. Det. AP
2340	73.176	MIDDLE-BARRED MINOR		19			19	
2341	73.172	CLOAKED MINOR			1		1	
2343x	73.169x	Common Rustic agg.			26		26	
2343	73.169	COMMON RUSTIC			1		1	1f Gen. Det. NS
2352	73.120	DUSKY SALLOW			2		2	
2353	73.131	FLOUNCED RUSTIC			28		28	
2361	73.123	ROSY RUSTIC			3	3	6	
2364	73.121	FROSTED ORANGE				1	1	
2369	73.136	BULRUSH WAINSCOT			1		1	
2380	73.101	TREBLE LINES		4			4	
2382	73.097	RUSTIC			1		1	
2387	73.092	MOTTLED RUSTIC		2	2		4	
2434	73.012	BURNISHED BRASS		1	3	3	7	
2439	73.022	GOLD SPOT			2		2	
2441	73.015	SILVER Y			6		6	
2450	73.001	SPECTACLE			3		3	
2474	72.002	STRAW DOT		13	62		75	
2477	72.003	SNOUT		3	1	4	8	
189	49		35	501	1478	298	2312	

Appendix III – 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
228	12.037	*Monopis weaverella*	Common	Dead Organic Matter
266	14.002	*Bucculatrix nigricomella*	Local	Ox-eye Daisy
290	15.012	*Caloptilia semifascia*	Local	Field Maple
294	15.015	*Aspilapteryx tringipennella*	Common	Ribwort Plantain
419	20.020	*Argyresthia semifusca*	Common	Hawthorn, Whitebeam
421	20.022	*Argyresthia bonnetella*	Common	Hawthorn
424	16.001	*Yponomeuta evonymella*	Common	Bird-cherry
425	16.002	*Yponomeuta padella*	Common	Hawthorn, Blackthorn, Cherry
426	16.003	*Yponomeuta malinellus*	Local	Apple
441	16.020	*Paraswammerdamia nebulella*	Common	Hawthorn, Rowan
449	22.002	*Prays fraxinella*	Common	Ash
455	17.005	*Ypsolopha scabrella*	Common	Apple, Blackthorn, Cotoneaster
456	17.006	*Ypsolopha horridella*	Nb	Apple, Blackthorn
462	17.012	*Ypsolopha sequella*	Common	Sycamore, Maples
464	18.001	Diamond-back Moth	Migrant	Brassicacea
473	19.011	Leek Moth	Local	Leek, Onion, Shallot, Chive, Garlic
517	37.035	*Coleophora alcyonipennella*	Local	White Clover
519	37.046	*Coleophora deauratella*	Local	Red Clover
607	38.037	*Elachista canapennella*	Common	Grasses
610	38.004	*Elachista argentella*	Common	Grasses
667	32.002	*Semioscopis steinkellneriana*	Local	Hawthorn, Blackthorn, Rowan
688	32.018	*Agonopterix heracliana*	Common	Apiaceae, esp. Angelica, Hogweed
691	32.009	*Agonopterix purpurea*	Local	Apiaceae
695	32.031	*Agonopterix alstromeriana*	Common	Hemlock
697	32.017	*Agonopterix arenella*	Common	Apiaceae
792	35.093	*Mirificarma mulinella*	Common	Gorse, Lupin
819	35.123	*Scrobipalpa costella*	Common	Bittersweet
843	35.010	*Aproaerema anthyllidella*	Local	Kidney-vetch, Sanfoin, Clover
873	41.002	*Blastobasis adustella*	Common	Withered plant material
874	41.003	*Blastobasis lacticolella*	Common	Withered plant material
880	40.011	*Mompha langiella*	Local	Great & Broad-leaved Willowherb
936	49.097	*Cochylimorpha straminea*	Common	Common Knapweed
937	49.109	*Agapeta hamana*	Common	Thistles
989	49.031	Timothy Tortrix	Common	Grasses, Herbaceous plants
994	49.038	*Clepsis consimilana*	Common	Polyphagous
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
1038	49.066	*Acleris laterana*	Common	Roseaceous Trees & Shrubs, Willow, Bilberry
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
1082	49.157	*Hedya pruniana*	Common	Cherry, Blackthorn, Plum
1084	49.158	*Hedya ochroleucana*	Common	Rose, Apple
1099	49.188	*Endothenia marginana*	Common	Teasel, Betony, hemp-nettle
1126	49.214	*Ancylis badiana*	Common	Pea, Vetch, Clover
1174	49.292	*Notocelia cynosbatella*	Common	Rose, Bramble
1176	49.298	*Notocelia trimaculana*	Common	Hawthorn
1200	49.266	*Eucosma hohenwartiana*	Common	Common Knapweed. Saw-wort

B & F	New	Species Name	National Status	Foodplants
1201	49.265	*Eucosma cana*	Common	Common Knapweed. Thistle
1205	49.224	*Spilonota ocellana*	Common	Deciduous Trees & Shrubs
1233	49.376	*Pammene aurita*	Local	Sycamore
1260	49.341	*Cydia splendana*	Common	Oak, Sweet Chestnut
1292	63.079	*Calamotropha paludella*	Local	Bulrush
1293	63.080	*Chrysoteuchia culmella*	Common	Grasses
1294	63.081	*Crambus pascuella*	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
1309	63.095	*Agriphila geniculea*	Common	Grasses
1316	63.102	*Catoptria falsella*	Common	Mosses
1331	63.115	Water Veneer	Common	submerged pond & freshwater plants
1334	63.064	*Scoparia ambigualis*	Common	Mosses & Lichens
1338	63.067	*Eudonia lacustrata*	Common	Mosses
1342	63.069	*Eudonia angustea*	Common	Mosses
1344	63.074	*Eudonia mercurella*	Common	Mosses
1345	63.114	Brown China-mark	Common	Pondweed
1348	63.117	Ringed China-mark	Common	submerged pond & freshwater plants
1361	63.006	*Pyrausta aurata*	Common	Dead-nettle, Mint
1376	63.025	Small Magpie	Common	Common Nettle
1388	63.033	*Udea lutealis*	Common	Herbaceous plants
1392	63.037	*Udea olivalis*	Common	Herbaceous plants
1395	63.031	Rusty-dot Pearl	Migrant	Herbaceous Plants
1398	63.052	Rush Veneer	Migrant	Clover, Knotgrass & other Grasses
1405	63.038	Mother of Pearl	Common	Common Nettle
1439	62.035	*Acrobasis advenella*	Common	Hawthorn, Rowan
1470	62.048	*Euzophera pinguis*	Common	Ash
1524	45.044	*Emmelina monodactyla*	Common	Bindweed
1632	66.002	PALE EGGAR	Common	Oak, Birch, Sallow, Blackthorn, Hawthorn, Hazel, Crab Apple
1663	70.245	MARCH MOTH	Common	Deciduous Trees
1682	70.029	BLOOD-VEIN	Common	Dock, Sorrel, Knotgrass
1708	70.011	SINGLE-DOTTED WAVE	Common	Cow Parsley, Burnet-saxifrage, Hedge Bedstraw
1716	70.038	VESTAL	Migrant	Dandelion, Dock
1727	70.054	SILVER-GROUND CARPET	Common	Low Growing 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
1746	70.066	SHOULDER STRIPE	Common	Roseaceous plants
1747	70.067	STREAMER	Common	Roseaceous plants
1764	70.097	COMMON MARBLED CARPET	Common	Deciduous Trees & Shrubs
1776	70.100	GREEN CARPET	Common	Bedstraws
1803	70.133	SMALL RIVULET	Common	Hemp-nettle
1812	70.148	MAPLE PUG	Local	Field Maple, Sycamore?
1819	70.184	MOTTLED PUG	Common	Oak, Hawthorn, Blackthorn
1825	70.173	LIME-SPECK PUG	Common	Low Growing Plants
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
1902	70.222	BROWN SILVER-LINE	Common	Bracken
1904	70.224	SCORCHED WING	Local	Oak, Beech, Birch, Sallow
1906	70.226	BRIMSTONE MOTH	Common	Deciduous Trees

B & F	New	Species Name	National Status	Foodplants
1907	70.227	BORDERED BEAUTY	Common	Aspen, Black Poplar, Sallow, Hazel
1913	70.234	CANARY-SHOULDERED THORN	Common	Deciduous Trees
1914	70.235	DUSKY THORN	Common	Ash
1915	70.236	SEPTEMBER THORN	Common	Oak, Beech, Birch, Lime
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
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
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
1994	71.025	BUFF-TIP	Common	Deciduous Trees & Shrubs
1997	71.005	SALLOW KITTEN	Common	Willow, Sallow, Aspen, Poplar
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
2060	72.020	WHITE ERMINE	Common	Herbaceous Plants
2061	72.019	BUFF ERMINE	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
2120	73.333	INGRAILED CLAY	Common	Herbaceous plants
2123	73.334	SMALL SQUARE-SPOT	Common	Herbaceous plants
2126	73.359	SETACEOUS HEBREW CHARACTER	Common	Herbaceous plants
2133	73.358	SIX-STRIPED RUSTIC	Common	Herbaceous plants
2134	73.357	SQUARE-SPOT RUSTIC	Common	Grasses
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
2182	73.245	SMALL QUAKER	Common	Oak, Sallow etc.
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
2199	73.291	COMMON WAINSCOT	Common	Grasses
2205	73.301	SHOULDER-STRIPED WAINSCOT	Common	Grasses
2216	73.052	SHARK	Common	Sow-thistle, Wild Lettuce, Hawk's-beard, Hawksweed
2232	73.233	BLACK RUSTIC	Common	Low Growing Plants & Grasses
2247	73.224	MERVEILLE DU JOUR	Common	Oak
2262	73.192	BRICK	Common	Sallow, Aspen, Poplar, Ash, Wych Elm
2266	73.187	BROWN-SPOT PINION	Common	Dock, Common Sorrel, Chickweed, Herbaceous plants
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
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

B & F	New	Species Name	National Status	Foodplants
2299	73.064	MOUSE MOTH	Common	Elm, Hawthorn, Sallow, Herbaceous plants
2302	73.102	BROWN RUSTIC	Common	Herbaceous plants
2306	73.113	ANGLE SHADES	Common	Herbaceous plants
2321	73.162	DARK ARCHES	Common	Grasses
2326	73.156	CLOUDED-BORDERED BRINDLE	Common	Grasses
2331	73.159	SMALL 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.	Common	Grasses
2338	73.175	RUFOUS MINOR	Local	Grasses
2339	73.174	TAWNY MARBLED MINOR	Common	Grasses
2340	73.176	MIDDLE-BARRED MINOR	Common	Grasses
2341	73.172	CLOAKED MINOR	Common	Grasses
2343x	73.169x	Common Rustic agg.	Common	Grasses
2343	73.169	COMMON RUSTIC	Common	Grasses
2352	73.120	DUSKY SALLOW	Common	Grasses
2353	73.131	FLOUNCED RUSTIC	Common	Grasses
2361	73.123	ROSY RUSTIC	Common	Herbaceous plants
2364	73.121	FROSTED ORANGE	Common	Thistle, Burdock, Hemp-agrimony, Nettles etc.
2369	73.136	BULRUSH WAINSCOT	Common	Bulrush
2380	73.101	TREBLE LINES	Common	Herbaceous plants
2382	73.097	RUSTIC	Common	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
2474	72.002	STRAW DOT	Common	Grasses
2477	72.003	SNOUT	Common	Common Nettle



1747 (70.067) Streamer (*Anticlea derivata*) 21st April, 2016

Appendix IV – Other Wildlife Recorded During Survey

Bird	Sparrowhawk (*Accipiter nisus nisus*)	**1**	23rd August, 2016
Beetle	Devil's Coachhorse (*Staphylinus olens*)	**1**	20th September, 2016
Beetle	Harlequin Ladybird *(Harmonia axyridis)*	**1**	23rd August, 2016
Beetle	Orange Ladybird (*Halyzia sedecimguttata*)	**1**	23rd August, 2016
Beetle	*Nicrophorus investigator*	**1**	23rd August, 2016
Beetle	*Nicrophorus investigator*	**2**	20th September, 2016
Grasshopper	Lesser Marsh Grasshopper (*Chorthippus albomarginatus*)	**4**	23rd August, 2016
Weevil	*Liophloeus tessulatus*	**1**	21st April, 2016
Caddis	Mottled Sedge (*Glyphotaelius pellucidus*)	**1**	23rd August, 2016
Caddis	*Mystacides azurea*	**1**	23rd August, 2016
Caddis	*Stenophylax permistus*	**6**	21st April, 2016
Caddis	*Stenophylax permistus*	**1**	20th September, 2016
Caddis	Lunatic Caddis (*Limnephilus lunatus*)	**3**	14th June, 2016
Caddis	Lunatic Caddis (*Limnephilus lunatus*)	**6**	20th September, 2016
Caddis	Grouse-wing Caddis (*Mystacides longicornis*)	**2**	14th June, 2016
Caddis	Grouse-wing Caddis (*Mystacides longicornis*)	**7**	23rd August, 2016
Caddis	Wiggly-line Caddis (*Limnephilus marmoratus*)	**1**	23rd August, 2016

Some Photos From Sun Rising 2015



14 (3.005) male Ghost Moth (*Hepialus humuli*) 14th June, 2016



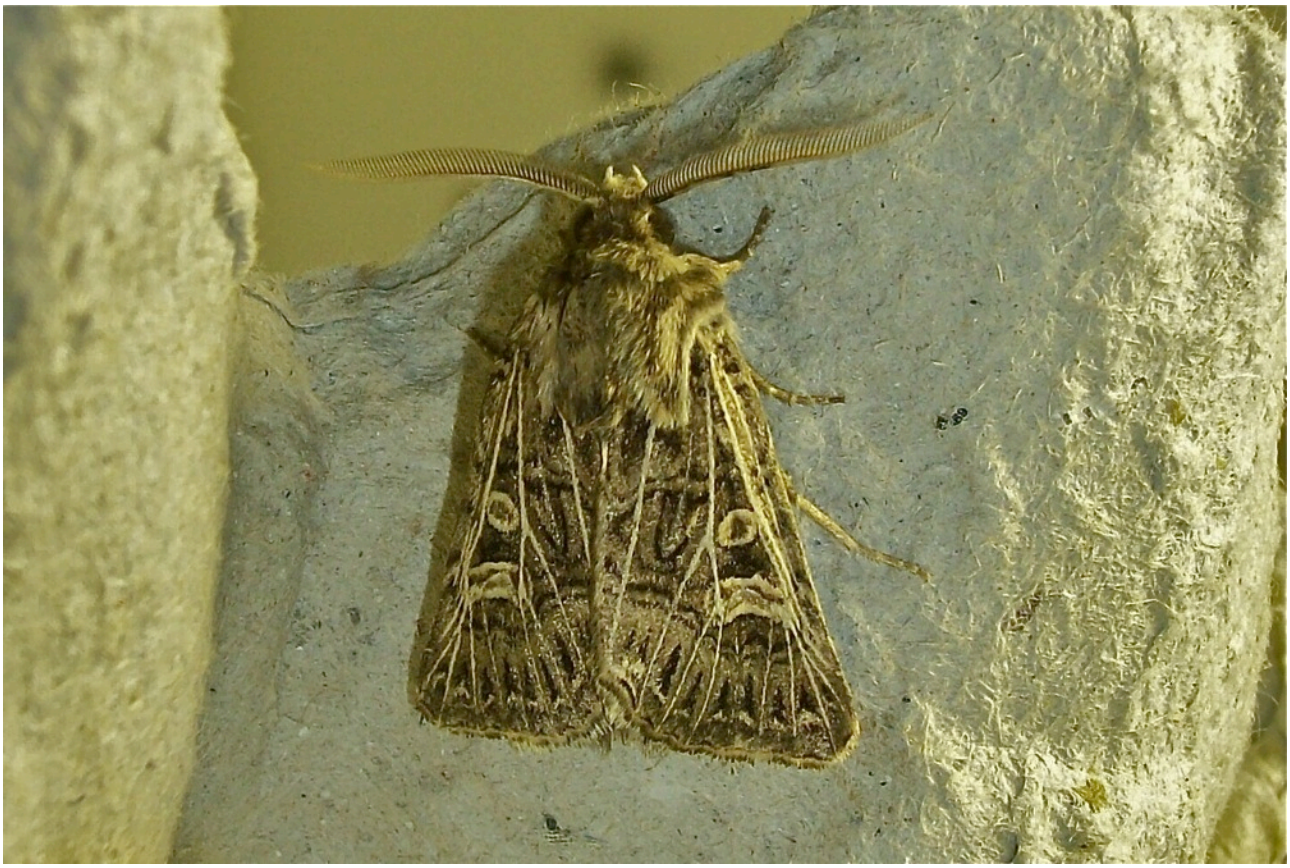
1392 (63.037) *Udea olivalis* 14th June, 2016



1682 (70.029) Blood-vein (*Timandra comae*) 14th June, 2016



1980 (69.002) Eyed Hawk-moth (*Smerinthus ocellata*) 14th June, 2016



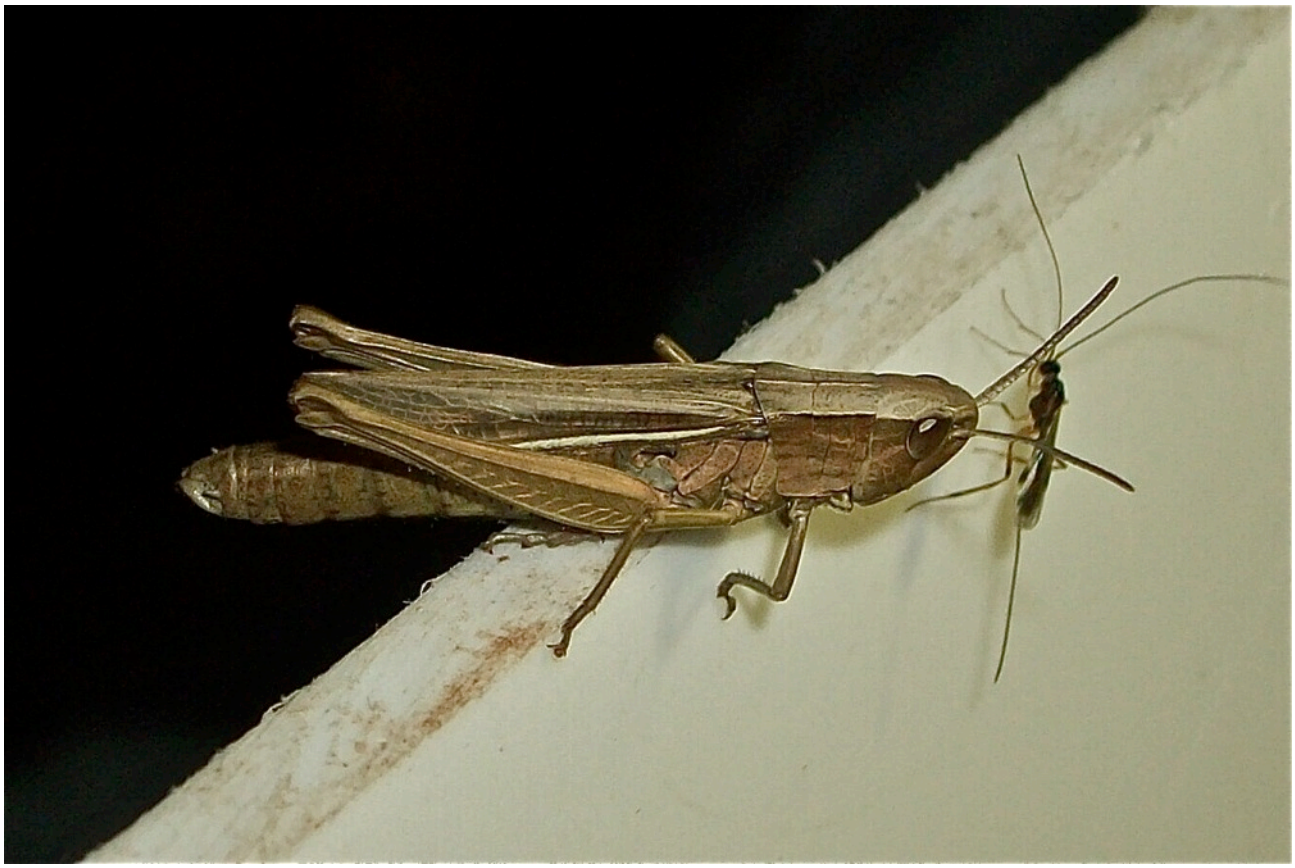
2178 (73.253) Feathered Gothic (*Tholera decimalis*) 23rd August, 2016



2352 (73.120) Dusky Sallow (*Eremobia ochroleuca*) 23rd August, 2016



Weevil *Liophloeus tessulatus* 21st April, 2016



Lesser Marsh Grasshopper (*Chorthippus albomarginatus*) 23rd August, 2016



Nicrophorus investigator 20th September, 2016