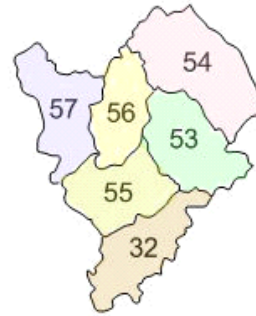


GARDEN MOTH SCHEME
EAST MIDLANDS
2016 Q4 & ANNUAL SUMMARY REPORT



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Juniper Carpet *Thera juniperata*
Simon Roddis

Edited by: Roger Freestone rogerf500@sky.com

Revision 01: December 2016

**GARDEN MOTH SCHEME
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INTRODUCTION

As per last year I am combining this report to give feedback on the records received for the final 9 weeks of the 2016 GMS (Weeks 28 to 36) along with a review of the full 36 weeks. To date I have received a total of 34 sets of records but unfortunately one set of records did not meet the GMS criteria relating to the total number of recording weeks; hopefully there will be one or two more recorders sending in their records. Following the issue of the 2015 Report I received a further two sets of records bringing the total to 33. Hence for the last three years the number of recorders submitting valid records has been steady at 33. We had 5 new recorders this year but lost 3 long term recorders, and 2 other shorter term recorders decided not to continue.

We have been running GMS in the East Midlands since 2009 and Figure 1 below is a summary of the East Midlands GMS in numbers.

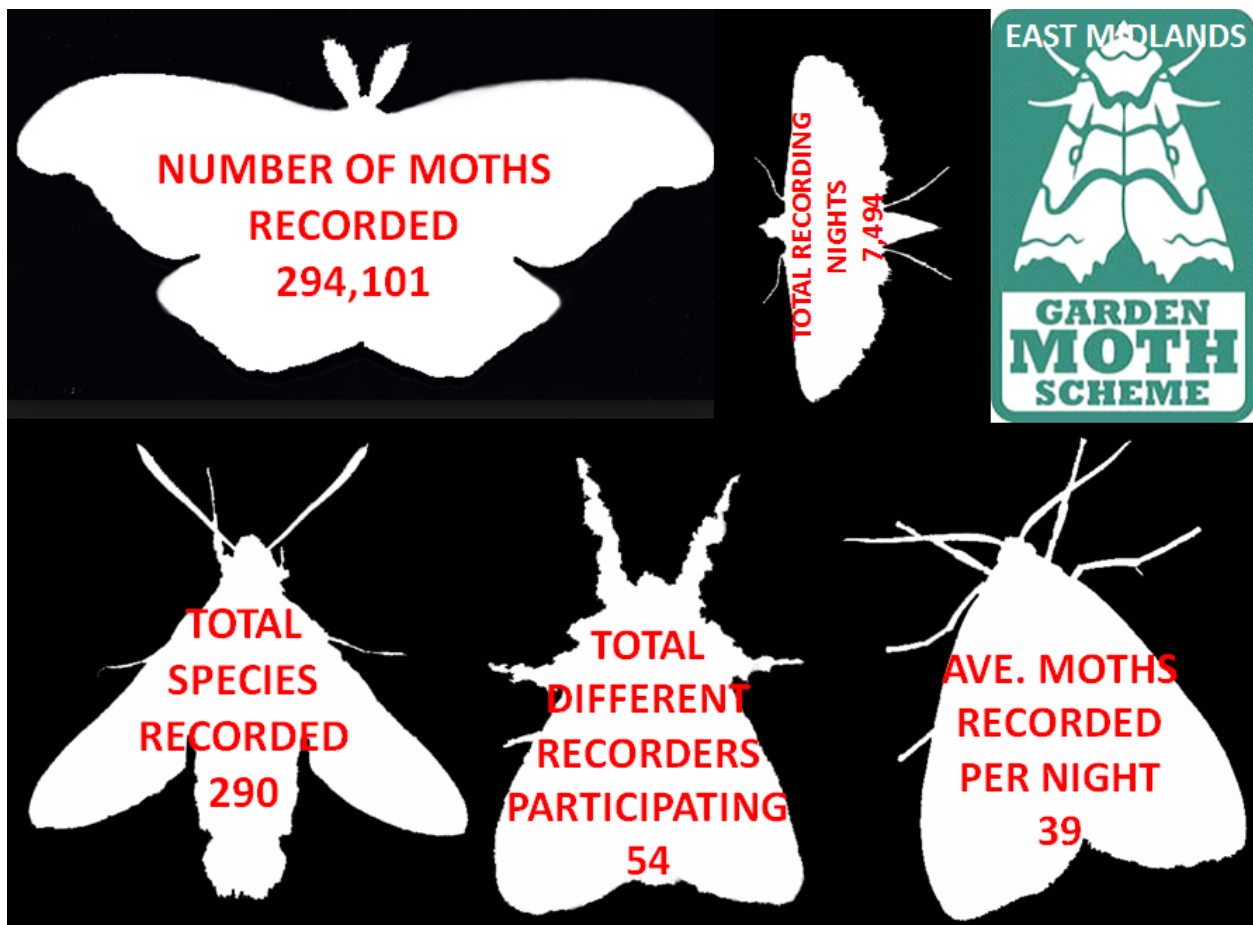


Figure 1

These data have all been entered into the GMS database along with all of the other regions' GMS data which provide an invaluable dataset available to researchers to get a better understanding on how our garden moths are faring under the various environmental pressures that our wildlife faces. Without all of our dedicated GMS recorders these data would not be available. Your records make a difference and all involved with the GMS would like to thank you all for your continued support, as without dedicated recorders like yourselves the scheme could not operate.

**GARDEN MOTH SCHEME
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Feathered Thorn *Colotois pennaria*
Simon Roddis

Q4 EAST MIDLANDS REGION DATA OVERVIEW

2016 Q4 Records Summary

Table 1 below compares the records for weeks 28 to 36 for 2016 (Q4) alongside previous years since 2009. In line with the records for all 36 weeks (see below) the average number of moths recorded is around 33% less than 2014 albeit the number of species recorded was higher than 2015 but less than 2014.

	2009	2010	2011	2012	2013	2014	2015	2016
No. Recorders	19	21	24	29	33	33	33	33
No. Recording Nights	164	168	199	216	228	280	266	284
No. Species Recorded	104	84	102	95	101	124	106	112
No. Moths	2,733	3,320	4,532	3,317	6,190	8,570	7,670	5,574
Ave Moths per Recording Night	17	20	23	15	27	31	29	20
No. Blank Trapping Nights	21	22	14	43	24	11	14	41

Table 1 Q4 Comparison for 2009 to 2016

2016 Q4 Top 20 Species

The Top 20 recorded species in 2016 Q4 are presented in Table 2 alongside a comparison to previous years since 2010, based on the Average Number of Moths per Recording Night.

A full list of species and numbers recorded is attached in Appendix 1.

**GARDEN MOTH SCHEME
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	2016		2015		2014		2013		2012		2011		2010	
1	Large Yellow Underwing	5.32	Large Yellow Underwing	9.33	Large Yellow Underwing	7.81	Large Yellow Underwing	5.29	Large Yellow Underwing	2.75	Large Yellow Underwing	4.73	Large Yellow Underwing	3.88
2	Light Brown Apple Moth	2.21	Lunar Underwing	3.66	Lunar Underwing	3.80	Lunar Underwing	4.03	Setaceous Hebrew Character	1.44	Lunar Underwing	1.92	Setaceous Hebrew Character	2.84
3	Lunar Underwing	1.81	Light Brown Apple Moth	1.99	Lesser Yellow Underwing	2.17	Light Brown Apple Moth	2.37	Light Brown Apple Moth	1.20	Square-spot Rustic	1.83	Square-spot Rustic	1.36
4	Setaceous Hebrew Character	1.76	Square-spot Rustic	1.95	Square-spot Rustic	2.07	Setaceous Hebrew Character	2.33	Square-spot Rustic	1.10	Lesser Yellow Underwing	1.53	Lunar Underwing	1.33
5	Square-spot Rustic	0.84	Setaceous Hebrew Character	1.70	Light Brown Apple Moth	2.03	Lesser Yellow Underwing	1.71	Lunar Underwing	1.06	Setaceous Hebrew Character	1.50	Lesser Yellow Underwing	0.96
6	Common Marbled Carpet	0.77	Lesser Yellow Underwing	1.45	Setaceous Hebrew Character	1.07	Common Marbled Carpet	1.70	Lesser Yellow Underwing	0.97	Beaded Chestnut	1.28	Blair's Shoulder-knot	0.88
7	Lesser Yellow Underwing	0.62	Beaded Chestnut	0.88	Common Marbled Carpet	0.94	Beaded Chestnut	0.70	Silver Y	0.61	Black Rustic	0.66	Light Brown Apple Moth	0.80
8	Beaded Chestnut	0.52	Blair's Shoulder-knot	0.51	Beaded Chestnut	0.70	Blair's Shoulder-knot	0.67	Angle Shades	0.42	Light Brown Apple Moth	0.50	Yellow-line Quaker	0.49
9	November Moth agg.	0.48	November Moth agg.	0.46	Snout	0.55	Garden Rose Tortrix	0.64	Copper Underwing agg.	0.39	Common Wainscot	0.47	Common Wainscot	0.48
10	Garden Carpet	0.39	Common Wainscot	0.45	Brimstone Moth	0.54	Square-spot Rustic	0.60	Garden Rose Tortrix	0.37	Blair's Shoulder-knot	0.44	Beaded Chestnut	0.47
11	Blair's Shoulder-knot	0.30	Common Marbled Carpet	0.37	Blair's Shoulder-knot	0.53	Silver Y	0.50	Green Carpet	0.35	Green-brindled Crescent	0.43	Sallow	0.35
12	Black Rustic	0.29	Silver Y	0.33	Common Wainscot	0.44	November Moth agg.	0.42	Common Marbled Carpet	0.35	Sallow	0.41	Smoky Wainscot	0.34
13	Garden Rose Tortrix	0.27	Black Rustic	0.32	Garden Carpet	0.41	Angle Shades	0.41	Garden Carpet	0.34	November Moth agg.	0.40	Red-line Quaker	0.34
14	Silver Y	0.26	Small Square-spot	0.31	Garden Rose Tortrix	0.39	Brimstone Moth	0.39	Brimstone Moth	0.33	Yellow-line Quaker	0.32	Barred Sallow	0.33
15	Centre-barred Sallow	0.25	Angle Shades	0.30	Shuttle-shaped Dart	0.38	Black Rustic	0.34	Blair's Shoulder-knot	0.32	Vine's Rustic	0.32	November Moth agg.	0.30
16	Copper Underwing agg.	0.24	Feathered Thorn	0.29	November Moth agg.	0.35	Garden Carpet	0.32	Black Rustic	0.25	Pink-barred Sallow	0.30	Common Marbled Carpet	0.28
17	Juniper Carpet	0.24	Garden Rose Tortrix	0.29	Willow Beauty	0.30	Copper Underwing agg.	0.25	Centre-barred Sallow	0.19	Silver Y	0.29	Turnip Moth	0.24
18	Angle Shades	0.24	Juniper Carpet	0.27	Pale Mottled Willow	0.28	Yellow-line Quaker	0.25	Willow Beauty	0.16	Shuttle-shaped Dart	0.27	Black Rustic	0.24
19	Red-green Carpet	0.23	Garden Carpet	0.26	Flame Shoulder	0.28	Juniper Carpet	0.23	Beaded Chestnut	0.15	Copper Underwing agg.	0.26	Pink-barred Sallow	0.23
20	Common Wainscot	0.21	Vine's Rustic	0.24	Rosy Rustic	0.26	Red-line Quaker	0.22	November Moth agg.	0.14	Pale Mottled Willow	0.26	Angle Shades	0.21

Table 2: Top Twenty Moth Records for Weeks 28 to 36 2010 thru 2016 (Average Number of Moths per Recording Night)

**GARDEN MOTH SCHEME
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2016 EAST MIDLANDS REGION DATA OVERVIEW

2016 Annual Records Summary

Table 3 below summarises the annual records for 2016 alongside previous years since 2009. Whilst the number of species recorded is slightly higher than in 2015, which was the first year following an increase in the species list, the overall recording rate in 2016 was significantly lower than the previous 3 years.

	2009	2010	2011	2012	2013	2014	2015	2016
No. Recorders	19	21	24	29	33	33	33	33
No. Recording Nights	644	706	814	924	1,046	1,124	1,103	1,133
No. Species Recorded	230	249	246	243	250	257	267	271
No. Moths	21,810	32,575	32,570	27,073	43,312	45,615	51,231	39,915
Ave Moths per Recording Night	34	46	40	29	41	41	46	35

Table 3 Annual Record Comparisons for 2009 to 2016

2016 Top 20 Species

The Top 20 recorded species in 2016 based on the Average Number of Moths per Recording Night are presented in Table 4 alongside a comparison to previous years since 2010.

Some brief observations:

- Large Yellow Underwing recording rate fell significantly compared to 2015 and more in line with 2010 and 2011.
- Heart and Dart records in 2016 are the lowest over the period of 2010 to 2016.
- Light Brown Apple Moth records continue to increase.
- Unsurprisingly following the “invasion” of Diamond-back Moth this was the second most recorded species.
- Worryingly, records of Dark Arches continue to fall; consistently a Top 4 species in prior years.

A full list of species and numbers recorded is attached in Appendix 2. Those species where there are less than or equal to 5 records are highlighted in red.

**GARDEN MOTH SCHEME
EAST MIDLANDS
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	2016		2015		2014		2013		2012		2011		2010	
1	Large Yellow Underwing	5.33	Large Yellow Underwing	9.57	Large Yellow Underwing	4.70	Large Yellow Underwing	4.66	Large Yellow Underwing	3.24	Heart & Dart	6.21	Large Yellow Underwing	5.23
2	Light Brown Apple Moth	2.18	Heart and Dart	3.24	Heart & Dart	2.86	Dark Arches	2.08	Dark Arches	2.24	Large Yellow Underwing	3.14	Heart & Dart	3.08
3	Diamond-back Moth	1.92	Common Rustic agg.	2.52	Dark Arches	1.64	Heart & Dart	1.84	Heart & Dart	1.91	Dark Arches	2.48	Dark Arches	2.99
4	Heart and Dart	1.46	Dark Arches	1.94	Light Brown Apple Moth	1.31	Riband Wave	1.31	Garden Grass-veneer	1.23	Square-spot Rustic	1.44	Setaceous Hebrew Character	2.68
5	Riband Wave	1.08	Light Brown Apple Moth	1.44	Riband Wave	1.22	Common Rustic agg.	1.19	Common Rustic agg.	1.22	Setaceous Hebrew Character	1.39	Common Rustic agg.	1.53
6	Setaceous Hebrew Character	0.96	Uncertain/Rustic agg.	1.43	Common Rustic agg.	1.16	Light Brown Apple Moth	1.15	Riband Wave	1.13	Common Rustic agg.	1.09	Hebrew Character	1.05
7	Square-spot Rustic	0.90	Garden Grass-veneer	1.29	Garden Grass-veneer	0.98	Square-spot Rustic	1.12	Willow Beauty	0.77	Common Quaker	0.95	Riband Wave	1.04
8	Uncertain/Rustic agg.	0.88	Riband Wave	1.23	Square-spot Rustic	0.95	Setaceous Hebrew Character	1.05	Light Brown Apple Moth	0.74	Lesser Yellow Underwing	0.91	Square-spot Rustic	1.00
9	Common Rustic agg.	0.87	Square-spot Rustic	1.18	Lunar Underwing	0.95	Lesser Yellow Underwing	1.02	Lesser Yellow Underwing	0.73	Hebrew Character	0.87	Lesser Broad-bordered Yellow Underwing	0.91
10	Dark Arches	0.77	Setaceous Hebrew Character	1.11	Lesser Yellow Underwing	0.87	Silver Y	0.92	Common Footman	0.71	Riband Wave	0.85	Common Quaker	0.86
11	Garden Grass-veneer	0.75	Lesser Yellow Underwing	0.99	Brimstone Moth	0.71	Lesser Broad-bordered Yellow Underwing	0.90	Setaceous Hebrew Character	0.60	Garden Grass-veneer	0.78	Garden Grass-veneer	0.84
12	Lesser Broad-bordered Yellow Underwing	0.57	Lunar Underwing	0.85	Common Footman	0.66	Lunar Underwing	0.88	Small Quaker	0.58	Common Footman	0.75	Flame Shoulder	0.80
13	Willow Beauty	0.57	Agriphila tristella	0.81	Flame Shoulder	0.62	Garden Grass-veneer	0.83	Common Quaker	0.55	Clouded Drab	0.73	Common Footman	0.79
14	Brimstone Moth	0.53	Lesser Broad-bordered Yellow Underwing	0.80	Marbled Minor agg.	0.62	Willow Beauty	0.77	Square-spot Rustic	0.53	Lesser Broad-bordered Yellow Underwing	0.70	Light Brown Apple Moth	0.78
15	Marbled Beauty	0.45	Hebrew Character	0.63	Setaceous Hebrew Character	0.61	Mother of Pearl	0.76	Lesser Broad-bordered Yellow Underwing	0.53	Shuttle-shaped Dart	0.61	Lesser Yellow Underwing	0.76
16	Lesser Yellow Underwing	0.45	Common Quaker	0.58	Marbled Beauty	0.61	Common Footman	0.74	Hebrew Character	0.46	Willow Beauty	0.58	Willow Beauty	0.74
17	Lunar Underwing	0.42	Marbled Minor agg.	0.55	Lesser Broad-bordered Yellow Underwing	0.59	Marbled Minor agg.	0.70	Copper Underwing agg.	0.43	Agriphila tristella	0.58	Rustic Shoulder-knot	0.73
18	Hebrew Character	0.41	Willow Beauty	0.55	Common Quaker	0.58	Brimstone Moth	0.70	Silver Y	0.43	Lunar Underwing	0.47	Shuttle-shaped Dart	0.71
19	Common Footman	0.37	Agriphila geniculea	0.54	Common Marbled Carpet	0.56	Marbled Beauty	0.62	Clouded Drab	0.39	Rustic Shoulder-knot	0.45	Marbled Minor agg	0.56
20	Small Magpie	0.36	Agriphila straminella	0.54	Hebrew Character	0.56	Common Marbled Carpet	0.54	Mother of Pearl	0.36	Marbled Minor agg	0.36	Mother of Pearl	0.54

Table 4: Top Twenty Moth Records for all 36 Weeks for 2010 thru 2016 (Average Number of Moths per Recording Night)

GARDEN MOTH SCHEME
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Acknowledgements

Many thanks again to Simon Roddis for his kind permission to use his excellent photographs within the report.



Angle Shades Phlogophora meticulosa
Simon Roddis

GARDEN MOTH SCHEME
EAST MIDLANDS
2016 Q4 & ANNUAL SUMMARY REPORT
APPENDIX 1- List of All EM Moth Species Recorded in Q4 2015

B&F No.	Species	No.
15	Orange Swift	2
464	Diamond-back Moth	12
647	Brown House Moth	3
648	White-shouldered House Moth	6
656	Ruddy Streak	2
970	Barred Fruit-tree Tortrix	9
998	Light Brown Apple Moth	588
1033	Green Oak Tortrix	6
1048	Garden Rose Tortrix	72
1076	Celypha lacunana	14
1288	Twenty-plume Moth	1
1293	Garden Grass-veneer	5
1309	Agriphila geniculea	11
1356	Garden Pebble	1
1395	Rusty-dot Pearl	5
1398	Rush Veneer	1
1413	Gold Triangle	8
1524	Emmelina monodactyla	32
1631	December Moth	2
1682	Blood-vein	5
1690	Small Blood-vein	1
1702	Small Fan-footed Wave	2
1707	Small Dusty Wave	8
1713	Riband Wave	7
1722	Flame Carpet	1
1728	Garden Carpet	105
1732	Shaded Broad-bar	1
1738	Common Carpet	8
1742	Yellow Shell	3
1759	Small Phoenix	7
1760	Red-green Carpet	60
1764	Common Marbled Carpet	205
1768	Grey Pine Carpet	5
1769	Spruce Carpet	28
1771	Juniper Carpet	64
1776	Green Carpet	51
1777	July Highflyer	40

B&F No.	Species	No.
1795x	November Moth agg.	129
1862	Double-striped Pug	10
1906	Brimstone Moth	49
1913	Canary-shouldered Thorn	2
1914	Dusky Thorn	28
1922	Swallow-tailed Moth	2
1923	Feathered Thorn	35
1937	Willow Beauty	36
1941	Mottled Beauty	2
1958	Clouded Silver	1
1961	Light Emerald	2
2061	Buff Ermine	1
2082	Garden Dart	1
2087	Turnip Moth	2
2089	Heart and Dart	1
2092	Shuttle-shaped Dart	18
2102	Flame Shoulder	19
2107	Large Yellow Underwing	1416
2109	Lesser Yellow Underwing	164
2110	Broad-bordered Yellow Underwing	6
2111	Lesser Broad-bordered Yellow Underwing	1
2112	Least Yellow Underwing	12
2123	Small Square-spot	24
2126	Setaceous Hebrew Character	469
2133	Six-striped Rustic	5
2134	Square-spot Rustic	224
2193	Clay	1
2198	Smoky Wainscot	4
2199	Common Wainscot	56
2231	Deep-brown Dart	5
2232	Black Rustic	76
2237	Grey Shoulder-knot	4
2240	Blair's Shoulder-knot	81
2243	Early Grey	3
2245	Green-brindled Crescent	45

GARDEN MOTH SCHEME
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APPENDIX 1- List of All EM Moth Species Recorded in Q4 2015

B&F No.	Species	No.
2247	Merveille du Jour	9
2248	Brindled Green	3
2254	Grey Chi	1
2256	Satellite	4
2258	Chestnut	3
2259	Dark Chestnut	4
2262	Brick	3
2263	Red-line Quaker	34
2264	Yellow-line Quaker	18
2266	Brown-spot Pinion	48
2267	Beaded Chestnut	137
2269	Centre-barred Sallow	66
2270	Lunar Underwing	481
2272	Barred Sallow	33
2273	Pink-barred Sallow	17
2274	Sallow	17
2293	Marbled Beauty	4
2297x	Copper Underwing agg.	65
2299	Mouse Moth	9
2300	Old Lady	1

B&F No.	Species	No.
2303	Straw Underwing	1
2305	Small Angle Shades	3
2306	Angle Shades	63
2343x	Common Rustic agg.	3
2353	Flounced Rustic	10
2361	Rosy Rustic	19
2364	Frosted Orange	7
2380	Treble Lines	1
2381x	Uncertain/Rustic agg.	2
2384	Vine's Rustic	22
2389	Pale Mottled Willow	16
2434	Burnished Brass	23
2439	Gold Spot	2
2441	Silver Y	70
2449	Dark Spectacle	1
2450	Spectacle	1
2452	Red Underwing	5
2469	Herald	1
2474	Straw Dot	14
2477	Snout	38

GARDEN MOTH SCHEME
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APPENDIX 2- List of All EM Moth Species Recorded in 2015

B&F No.	Species	No.
14	Ghost Moth	16
15	Orange Swift	85
17	Common Swift	140
464	Diamond-back Moth	2174
647	Brown House Moth	143
648	White-shouldered House Moth	76
656	Ruddy Streak	2
658	Oak Longhorned	49
937	Agapeta hamana	79
970	Barred Fruit-tree Tortrix	65
998	Light Brown Apple Moth	2469
1033	Green Oak Tortrix	18
1048	Garden Rose Tortrix	144
1063	Celypha striana	87
1076	Celypha lacunana	121
1175	Bramble Shoot Moth	28
1288	Twenty-plume Moth	42
1293	Garden Grass-veneer	854
1294	Crambus pascuella	234
1304	Agriphila straminella	312
1305	Agriphila tristella	252
1309	Agriphila geniculea	266
1345	Brown China-mark	23
1356	Garden Pebble	27
1376	Small Magpie	405
1378	Spotted Magpie	56
1392	Udea olivalis	60
1395	Rusty-dot Pearl	15
1398	Rush Veneer	1
1405	Mother of Pearl	256
1413	Gold Triangle	116
1424	Endotricha flammealis	143
1428	Bee Moth	240
1524	Emmelina monodactyla	111
1631	December Moth	2
1640	Drinker	17
1646	Oak Hook-tip	3

B&F No.	Species	No.
1648	Pebble Hook-tip	13
1651	Chinese Character	27
1652	Peach Blossom	4
1653	Buff Arches	33
1654	Figure of Eighty	7
1663	March Moth	14
1669	Common Emerald	40
1682	Blood-vein	55
1690	Small Blood-vein	31
1699	Least Carpet	12
1702	Small Fan-footed Wave	133
1705	Dwarf Cream Wave	13
1707	Small Dusty Wave	36
1708	Single-dotted Wave	124
1711	Treble Brown Spot	5
1712	Small Scallop	1
1713	Riband Wave	1225
1722	Flame Carpet	33
1725	Dark-barred Twin-spot Carpet	5
1727	Silver-ground Carpet	61
1728	Garden Carpet	389
1732	Shaded Broad-bar	21
1738	Common Carpet	121
1742	Yellow Shell	46
1746	Shoulder Stripe	4
1747	Streamer	8
1757	Spinach	2
1758	Barred Straw	45
1759	Small Phoenix	33
1760	Red-green Carpet	64
1764	Common Marbled Carpet	390
1765	Barred Yellow	13
1768	Grey Pine Carpet	8
1769	Spruce Carpet	42
1771	Juniper Carpet	64
1776	Green Carpet	166
1777	July Highflyer	57
1795x	November Moth agg.	129

GARDEN MOTH SCHEME
EAST MIDLANDS
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APPENDIX 2- List of All EM Moth Species Recorded in 2015

B&F No.	Species	No.
1802	Rivulet	7
1803	Small Rivulet	35
1817	Foxglove Pug	45
1825	Lime-speck Pug	36
1838	Tawny Speckled Pug	4
1839	Bordered Pug	4
1858	V-Pug	6
1860	Green Pug	140
1862	Double-striped Pug	122
1867	Treble-bar	1
1884	Magpie Moth	29
1887	Clouded Border	54
1893	Tawny-barred Angle	1
1894	Latticed Heath	11
1902	Brown Silver-line	5
1904	Scorched Wing	37
1906	Brimstone Moth	604
1913	Canary-shouldered Thorn	49
1914	Dusky Thorn	143
1917	Early Thorn	43
1919	Purple Thorn	9
1920	Scalloped Hazel	69
1921	Scalloped Oak	92
1922	Swallow-tailed Moth	118
1923	Feathered Thorn	35
1927	Brindled Beauty	10
1930	Oak Beauty	13
1931	Peppered Moth (Light)	52
1931	Peppered Moth (Intermediate)	14
1931	Peppered Moth (Dark)	3
1934	Dotted Border	6
1936	Waved Umber	29
1937	Willow Beauty	646
1941	Mottled Beauty	88
1954	Bordered White	4
1955	Common White Wave	15

B&F No.	Species	No.
1956	Common Wave	12
1957	White-pinion Spotted	2
1958	Clouded Silver	126
1961	Light Emerald	50
1962	Barred Red	2
1976	Privet Hawk-moth	13
1979	Lime Hawk-moth	3
1980	Eyed Hawk-moth	9
1981	Poplar Hawk-moth	75
1991	Elephant Hawk-moth	142
1994	Buff-tip	22
1995	Puss Moth	1
1997	Sallow Kitten	11
2000	Iron Prominent	26
2003	Pebble Prominent	19
2006	Lesser Swallow Prominent	30
2007	Swallow Prominent	43
2008	Coxcomb Prominent	8
2011	Pale Prominent	19
2015	Lunar Marbled Brown	2
2026	Vapourer	1
2028	Pale Tussock	52
2030	Yellow-tail	35
2044	Dingy Footman	163
2047	Scarce Footman	58
2049	Buff Footman	8
2050	Common Footman	422
2057	Garden Tiger	4
2060	White Ermine	47
2061	Buff Ermine	288
2063	Muslin Moth	45
2064	Ruby Tiger	50
2069	Cinnabar	20
2077	Short-cloaked Moth	32
2078	Least Black Arches	8
2082	Garden Dart	2
2087	Turnip Moth	32

**GARDEN MOTH SCHEME
EAST MIDLANDS
2016 Q4 & ANNUAL SUMMARY REPORT
APPENDIX 2- List of All EM Moth Species Recorded in 2015**

B&F No.	Species	No.
2088	Heart and Club	33
2089	Heart and Dart	1658
2091	Dark Sword-grass	1
2092	Shuttle-shaped Dart	315
2098	Flame	217
2102	Flame Shoulder	404
2107	Large Yellow Underwing	6034
2109	Lesser Yellow Underwing	508
2110	Broad-bordered Yellow Underwing	27
2111	Lesser Broad-bordered Yellow Underwing	647
2112	Least Yellow Underwing	21
2114	Double Dart	1
2118	True Lover's Knot	8
2120	Ingrailed Clay	74
2122	Purple Clay	9
2123	Small Square-spot	253
2126	Setaceous Hebrew Character	1084
2127	Triple-spotted Clay	4
2128	Double Square-spot	91
2130	Dotted Clay	42
2133	Six-striped Rustic	45
2134	Square-spot Rustic	1018
2136	Gothic	39
2145	Nutmeg	5
2147	Shears	3
2154	Cabbage Moth	28
2155	Dot Moth	134
2158	Pale-shouldered Brocade	13
2160	Bright-line Brown-eye	356
2163	Broom Moth	3
2164	Broad-barred White	1
2170	Varied Coronet	7
2176	Antler Moth	3
2179	Pine Beauty	5
2182	Small Quaker	71

B&F No.	Species	No.
2186	Powdered Quaker	36
2187	Common Quaker	393
2188	Clouded Drab	233
2189	Twin-spotted Quaker	24
2190	Hebrew Character	469
2192	Brown-line Bright Eye	37
2193	Clay	80
2198	Smoky Wainscot	182
2199	Common Wainscot	198
2205	Shoulder-striped Wainscot	49
2216	Shark	5
2221	Mullein	5
2231	Deep-brown Dart	5
2232	Black Rustic	76
2237	Grey Shoulder-knot	9
2240	Blair's Shoulder-knot	83
2243	Early Grey	86
2245	Green-brindled Crescent	45
2247	Merveille du Jour	9
2248	Brindled Green	4
2254	Grey Chi	2
2256	Satellite	7
2258	Chestnut	8
2259	Dark Chestnut	4
2262	Brick	3
2263	Red-line Quaker	34
2264	Yellow-line Quaker	18
2265	Flounced Chestnut	3
2266	Brown-spot Pinion	48
2267	Beaded Chestnut	137
2269	Centre-barred Sallow	166
2270	Lunar Underwing	481
2272	Barred Sallow	33
2273	Pink-barred Sallow	21
2274	Sallow	22
2278	Poplar Grey	27
2279	Sycamore	12

GARDEN MOTH SCHEME
EAST MIDLANDS
2016 Q4 & ANNUAL SUMMARY REPORT
APPENDIX 2- List of All EM Moth Species Recorded in 2015

B&F No.	Species	No.
2280	Miller	9
2284x	Dark Dagger / Grey Dagger	71
2289	Knot Grass	19
2293	Marbled Beauty	514
2297x	Copper Underwing agg.	223
2299	Mouse Moth	86
2300	Old Lady	19
2302	Brown Rustic	54
2303	Straw Underwing	38
2305	Small Angle Shades	31
2306	Angle Shades	133
2318	Dun-bar	66
2321	Dark Arches	868
2322	Light Arches	65
2326	Clouded-bordered Brindle	44
2327	Clouded Brindle	10
2330	Dusky Brocade	14
2334	Rustic Shoulder-knot	109
2335	Slender Brindle	1
2336	Double Lobed	1
2337x	Marbled Minor agg.	318
2340	Middle-barred Minor	57
2341	Cloaked Minor	10
2342	Rosy Minor	2
2343x	Common Rustic agg.	983
2345	Small Dotted Buff	12

B&F No.	Species	No.
2352	Dusky Sallow	15
2353	Flounced Rustic	281
2361	Rosy Rustic	73
2364	Frosted Orange	8
2380	Treble Lines	70
2381x	Uncertain/Rustic agg.	994
2384	Vine's Rustic	82
2387	Mottled Rustic	130
2389	Pale Mottled Willow	49
2422	Green Silver-lines	7
2434	Burnished Brass	119
2437	Golden Plusia	4
2439	Gold Spot	48
2441	Silver Y	251
2442	Beautiful Golden Y	15
2443	Plain Golden Y	29
2449	Dark Spectacle	3
2450	Spectacle	97
2452	Red Underwing	7
2469	Herald	12
2473	Beautiful Hook-tip	34
2474	Straw Dot	238
2477	Snout	181
2489	Fan-foot	105
2492	Small Fan-foot	24