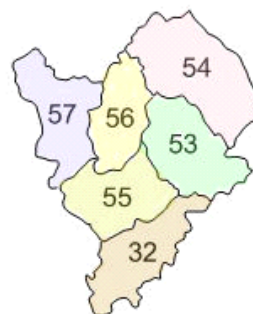


GARDEN MOTH SCHEME 2016
EAST MIDLANDS
WEEKS 19 TO 27 REPORT



CONTENTS

INTRODUCTION..... 2

EAST MIDLANDS REGION DATA OVERVIEW..... 2

 Q3 Records Summary

 Top 20 Q3 Species

INTERESTING FINDS.....5

APPENDIX 1-LIST OF RECORDED MOTHS FOR 2016 Q3.....7



Chocolate-tip *Clostera curtula*

Simon Roddis

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GARDEN MOTH SCHEME 2016
EAST MIDLANDS
WEEKS 19 TO 27 REPORT

INTRODUCTION

This is my usual short report to give East Midlands GMS Recorders some immediate feedback on records submitted for Weeks 19 to 27. These interim reviews are only “snap shots” as not all recorders have forwarded their records for this period.

The general feeling of recorders seems to be that the number of moths being recorded picked up a during weeks 19 to 27 following the general slow start during weeks 1 to 18 but still generally down on previous years particularly when directly compared to 2015.



Pebble Hook-tip *Drepana falcataria*
 Simon Roddis

EAST MIDLANDS REGION DATA OVERVIEW

Q3 Records Summary

Table 1 below compares the records for weeks 10 to 18 this year with the same period in previous years. Many thanks to all 29 recorders who managed to submit their records for up to the end of week 27.

The Average Number of Moths per Recording Night is significantly down on 2015 but up compared to 2014 and the Number of Species Recorded also reflects the same trend.

	2009	2010	2011	2012	2013	2014	2015	2016
No. Recorders	19	21	24	29	33	33	33	29
No. Recording Nights	150	173	204	236	274	273	271	236
No. Species Recorded	169	187	198	199	218	207	223	206
No. Moths	9,116	9,611	13,886	17,251	32,773	21,992	31,969	20,225
Ave Moths per Recording Night	60.8	55.6	68.1	73.1	119.6	80.6	118.0	85.7
% of Blank Nights	0%	0%	0%	0%	0%	1%	2%	0%

Table 1: Summary of Weeks 19 to 27 for all GMS Records for 2009 thru 2016

GARDEN MOTH SCHEME 2016

EAST MIDLANDS

WEEKS 19 TO 27 REPORT

Figure 1 is a graphical summary showing the trends for the Average Moths per Recording Night and number of species recorded since 2009 for Weeks 19 to 27. Over the last 5 years there definitely looks to be a cyclic trend from year to year with similar “peaks and troughs”.

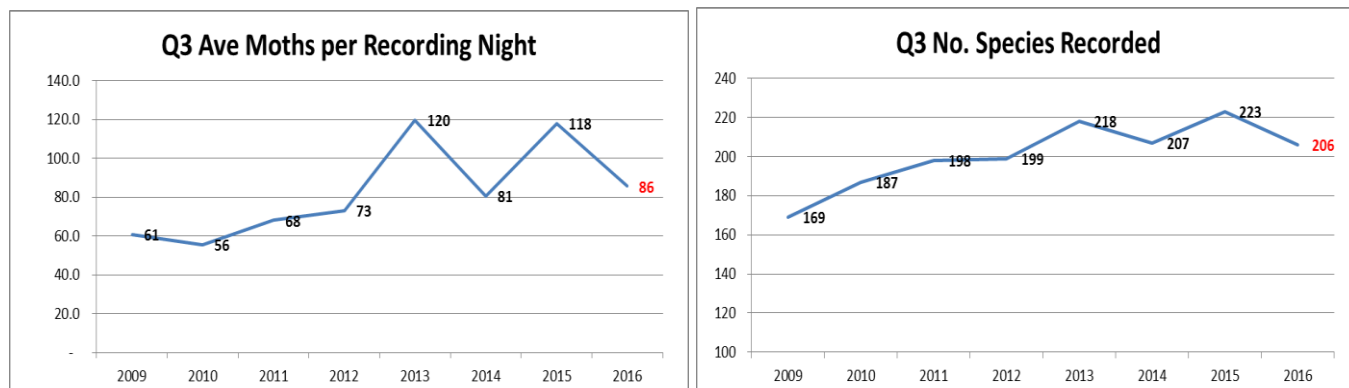


Figure 1: Summary of Weeks 19 to 27 for all GMS Records for 2009 thru 2016

Top 20 Species for 2016 Q3

The Top 20 recorded species in Q3 2016 based on the Average Number of Moths per Recording Night is presented in Table 2 on page 4 along with a comparison to previous years from 2010 (2009 omitted for space reasons).

I reported last quarter that the Large Yellow Underwing recording rate was higher than in previous years possibly indicating an earlier emergence this year. However, for the third 9 weeks this year it can be seen that the reporting rate is down on 2015 and more in line with previous years. It will be interesting to look at how this species fared over the full recording season as a 9 week snapshot does not tell the whole story.

On reviewing Table 2 it appears that the recording rates for most species for this quarter are again down compared to 2015 and previous years. The recording of Dark Arches for this quarter is at an all-time low as it is Common Rustic agg. On the positive side does appear to have been a good year for Light Brown Apple Moth unless you are an apple grower! This is possibly a reflection on the relatively mild winter of 2015/16 improving its survival rate.



Feathered Gothic *Tholera decimalis*
Simon Roddis

GARDEN MOTH SCHEME 2016
EAST MIDLANDS
WEEKS 19 TO 27 REPORT

2016		2015		2014		2013		2012		2011		2010	
Large Yellow U'wing	16.5	Large Yellow U'wing	27.8	Large Yellow U'wing	11.0	Large Yellow U'wing	13.3	Large Yellow U'wing	10.0	Large Yellow U'wing	7.6	Large Yellow U'wing	16.3
Light Brown Apple Moth	5.2	Common Rustic agg.	9.6	Dark Arches	5.4	Dark Arches	7.9	Dark Arches	7.1	Dark Arches	6.2	Dark Arches	9.0
Riband Wave	3.9	Dark Arches	6.3	Common Rustic agg.	4.6	Riband Wave	5.0	Common Rustic agg.	4.7	Common Rustic agg.	4.1	Setaceous Hebrew Character	7.1
Uncertain/Rustic agg.	3.0	Heart and Dart	4.3	Riband Wave	4.1	Common Rustic agg.	4.5	Garden Grass-veneer	4.5	Square-spot Rustic	3.9	Common Rustic agg.	5.9
Square-spot Rustic	2.9	Garden Grass-veneer	4.0	Garden Grass-veneer	3.2	Heart & Dart	4.0	Riband Wave	4.3	Setaceous Hebrew Character	3.3	Lesser Broad-bordered Yellow U'wing	3.6
Common Rustic agg.	2.9	Uncertain/Rustic agg.	4.0	Heart & Dart	3.1	Square-spot Rustic	3.8	Heart & Dart	2.9	Lesser Broad-bordered Yellow U'wing	2.7	Riband Wave	2.8
Dark Arches	2.7	Riband Wave	3.6	Marbled Beauty	2.4	Lesser Broad-bordered Yellow U'wing	3.4	Common Footman	2.7	Heart & Dart	2.7	Square-spot Rustic	2.7
Garden Grass-veneer	2.7	Agriphila tristella	3.3	Lesser Broad-bordered Yellow U'wing	2.3	Garden Grass-veneer	3.1	Willow Beauty	2.6	Riband Wave	2.4	Common Footman	2.5
Lesser Broad-bordered Yellow U'wing	2.4	Lesser Broad-bordered Yellow U'wing	3.1	Common Footman	2.0	Silver Y	3.0	Lesser Broad-bordered Yellow U'wing	2.1	Garden Grass-veneer	2.2	Garden Grass-veneer	2.3
Marbled Beauty	1.9	Square-spot Rustic	2.8	Square-spot Rustic	1.8	Mother of Pearl	2.9	Lesser Yellow U'wing	1.9	Agriphila tristella	2.2	Mother of Pearl	2.1
Willow Beauty	1.7	Lesser Yellow U'wing	2.5	Mother of Pearl	1.8	Willow Beauty	2.9	Light Brown Apple Moth	1.4	Lesser Yellow U'wing	2.1	Lesser Yellow U'wing	2.1
Common Footman	1.4	Light Brown Apple Moth	2.2	Agriphila tristella	1.5	Common Footman	2.8	Copper U'wing agg.	1.3	Common Footman	1.8	Heart & Dart	1.9
Setaceous Hebrew Character	1.3	Agriphila straminella	2.2	Light Brown Apple Moth	1.4	Lesser Yellow U'wing	2.5	Mother of Pearl	1.3	Willow Beauty	1.4	Shuttle-shaped Dart	1.7
Diamond-back Moth	1.3	Agriphila geniculea	2.1	Flame Shoulder	1.4	Marbled Beauty	2.4	Marbled Beauty	1.1	Flounced Rustic	1.2	Willow Beauty	1.7
Brimstone Moth	1.3	Mother of Pearl	1.9	Lesser Yellow U'wing	1.3	Marbled Minor agg.	2.3	Square-spot Rustic	1.1	Shuttle-shaped Dart	1.2	Smoky Wainscot	1.6
Heart and Dart	1.3	Setaceous Hebrew Character	1.8	Straw Dot	1.3	Setaceous Hebrew Character	2.0	Silver Y	0.9	Agriphila straminella	0.9	Flame Shoulder	1.6
Lesser Yellow U'wing	1.2	Marbled Beauty	1.7	Agriphila straminella	1.2	Agriphila tristella	2.0	Flounced Rustic	0.8	Smoky Wainscot	0.9	Agriphila tristella	1.4
Agriphila straminella	1.2	Common Footman	1.6	Setaceous Hebrew Character	1.1	Light Brown Apple Moth	1.9	Smoky Wainscot	0.7	Agriphila geniculea	0.9	Light Brown Apple Moth	1.1
Flounced Rustic	1.0	Willow Beauty	1.5	Bright-line Brown-eye	1.1	Brimstone Moth	1.8	Agriphila tristella	0.7	Vine's Rustic	0.8	Common Wainscot	0.9
Agriphila geniculea	0.9	Flounced Rustic	1.3	Dingy Footman	1.1	Agriphila straminella	1.7	Dingy Footman	0.6	Mother of Pearl	0.7	Flame	0.9

Table 2: Top 20 Moth Records for Weeks 19 to 27 for 2010 thru 2016 (Based on Average Number of Moths per Recording Night)

GARDEN MOTH SCHEME 2016
EAST MIDLANDS
WEEKS 19 TO 27 REPORT

INTERESTING FINDS

One of the exciting aspects of moth recording is that you are never sure what you are going to find in your trap. More often than not it only contains common species but sometimes something really exciting can turn up. The following are some highlights that have been recently communicated to me by GMS recorders finding something a little more unusual in their garden traps.

Dave McGeever reported that he recorded a Wormwood *Cucullia absinthii* in his trap in Ravenshead in Nottinghamshire.



Wormwood *Cucullia absinthii*
Dave McGeever

Bob Gill reported that he recorded the enigmatic Convolvulus Hawk-moth *Agrius convolvuli* on the 26th August in his Northampton garden. My attempts to attract this species to my garden have been in vain to date despite a good showing of nicotiana plants.

Colin Watkin was very pleased to find a Fen Wainscot *Arenostola phragmitidis* in his garden trap, no doubt due to his proximity to the River Trent in Nottinghamshire.

A Large Thorn *Ennomos autumnaria* was recorded by Emma Turner in her garden in Crowland, Northants.



Large Thorn *Ennomos autumnaria*
Emma Turner

GARDEN MOTH SCHEME 2016

EAST MIDLANDS

WEEKS 19 TO 27 REPORT

APPENDIX 1- List of All EM Moths Recorded in 2016 Q3

Species	No.
Ghost Moth	7
Orange Swift	77
Common Swift	5
Diamond-back Moth	311
Brown House Moth	114
White-shouldered House Moth	33
Oak Longhorned	46
Agapeta hamana	62
Barred Fruit-tree Tortrix	40
Light Brown Apple Moth	1,219
Green Oak Tortrix	3
Garden Rose Tortrix	60
Celypha striana	68
Celypha lacunana	68
Bramble Shoot Moth	18
Twenty-plume Moth	8
Garden Grass-veneer	636
Crambus pascuella	165
Agriphila straminella	283
Agriphila tristella	218
Agriphila geniculea	220
Brown China-mark	20
Garden Pebble	18
Small Magpie	175
Spotted Magpie	46
Udea olivalis	15
Rusty-dot Pearl	4
Rush Veneer	5
Mother of Pearl	211
Gold Triangle	92
Endotricha flammealis	136
Bee Moth	40
Emmelina monodactyla	51
Drinker	10
Oak Hook-tip	2
Pebble Hook-tip	12
Chinese Character	19
Peach Blossom	1
Buff Arches	26

Species	No.
Common Emerald	28
Blood-vein	19
Small Blood-vein	26
Least Carpet	8
Small Fan-footed Wave	112
Dwarf Cream Wave	9
Small Dusty Wave	15
Single-dotted Wave	99
Riband Wave	930
Flame Carpet	17
Dark-barred Twin-spot Carpet	2
Silver-ground Carpet	3
Garden Carpet	153
Shaded Broad-bar	14
Common Carpet	75
Yellow Shell	32
Spinach	1
Barred Straw	13
Small Phoenix	17
Red-green Carpet	1
Common Marbled Carpet	56
Barred Yellow	8
Spruce Carpet	5
Green Carpet	57
July Highflyer	12
Rivulet	2
Small Rivulet	22
Foxglove Pug	20
Lime-speck Pug	24
Tawny Speckled Pug	4
Bordered Pug	4
V-Pug	4
Green Pug	41
Double-striped Pug	68
Magpie Moth	14
Clouded Border	31
Latticed Heath	6
Brimstone Moth	311
Canary-shouldered Thorn	32

GARDEN MOTH SCHEME 2016
EAST MIDLANDS
WEEKS 19 TO 27 REPORT

Species	No.
Dusky Thorn	72
Early Thorn	26
Purple Thorn	5
Scalloped Oak	77
Swallow-tailed Moth	102
Peppered Moth (Light)	24
Peppered Moth (Intermediate)	6
Willow Beauty	407
Mottled Beauty	53
Bordered White	3
Common White Wave	8
Common Wave	4
Clouded Silver	29
Light Emerald	19
Barred Red	2
Privet Hawk-moth	6
Eyed Hawk-moth	2
Poplar Hawk-moth	33
Elephant Hawk-moth	46
Buff-tip	11
Sallow Kitten	8
Iron Prominent	19
Pebble Prominent	9
Lesser Swallow Prominent	19
Swallow Prominent	19
Coxcomb Prominent	4
Pale Prominent	11
Vapourer	1
Yellow-tail	29
Dingy Footman	132
Scarce Footman	33
Buff Footman	7
Common Footman	336
White Ermine	1
Buff Ermine	76
Ruby Tiger	40
Cinnabar	5
Short-cloaked Moth	25
Turnip Moth	7
Heart and Club	11

Species	No.
Heart and Dart	305
Shuttle-shaped Dart	159
Flame	110
Flame Shoulder	217
Large Yellow Underwing	3,883
Lesser Yellow Underwing	284
Broad-bordered Yellow Underwing	14
Lesser Broad-bordered Yellow Underwing	564
Least Yellow Underwing	7
True Lover's Knot	7
Ingrailed Clay	12
Purple Clay	5
Small Square-spot	104
Setaceous Hebrew Character	318
Triple-spotted Clay	2
Double Square-spot	63
Dotted Clay	38
Six-striped Rustic	38
Square-spot Rustic	689
Gothic	27
Nutmeg	1
Cabbage Moth	24
Dot Moth	122
Pale-shouldered Brocade	2
Bright-line Brown-eye	170
Varied Coronet	3
Antler Moth	3
Brown-line Bright Eye	15
Clay	47
Smoky Wainscot	136
Common Wainscot	79
Shoulder-striped Wainscot	7
Shark	2
Brindled Green	1
Grey Chi	1
Centre-barred Sallow	66
Pink-barred Sallow	4
Sallow	4
Poplar Grey	14

GARDEN MOTH SCHEME 2016

EAST MIDLANDS

WEEKS 19 TO 27 REPORT

Species	No.
Sycamore	6
Miller	4
Dark Dagger / Grey Dagger	45
Knot Grass	10
Marbled Beauty	445
Copper Underwing agg.	148
Mouse Moth	66
Old Lady	15
Brown Rustic	8
Straw Underwing	35
Small Angle Shades	12
Angle Shades	29
Dun-bar	58
Dark Arches	640
Light Arches	38
Clouded-bordered Brindle	5
Clouded Brindle	4
Dusky Brocade	9
Rustic Shoulder-knot	1
Slender Brindle	1
Marbled Minor agg.	110
Middle-barred Minor	6
Cloaked Minor	9
Common Rustic agg.	673
Small Dotted Buff	10

Species	No.
Dusky Sallow	11
Flounced Rustic	231
Rosy Rustic	40
Frosted Orange	1
Uncertain/Rustic agg.	697
Vine's Rustic	47
Mottled Rustic	69
Pale Mottled Willow	22
Green Silver-lines	1
Burnished Brass	50
Golden Plusia	2
Gold Spot	30
Silver Y	112
Beautiful Golden Y	3
Plain Golden Y	21
Dark Spectacle	1
Spectacle	43
Red Underwing	2
Herald	4
Beautiful Hook-tip	17
Straw Dot	143
Snout	87
Fan-foot	80
Small Fan-foot	11