

# The Smaller Moths of Staffordshire

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## Preface

It is 25 years since Richard Warren produced his *Smaller Moths of Staffordshire* and it is now long out-of-print. It is a monumental work whose small size belies the work involved in its production. Richard was "into" micros at a time few others were. His knowledge of the micros of the county was encyclopaedic which is remarkable when you consider that he did not drive and his main source of identification of the micros was Meyrick's *Revised Handbook of British Lepidoptera* which, as those of you familiar with it will know, contains no illustrations save a few showing wing venation! Later there was the 2 volume *British Tortricoid Moths* and the first volumes of the *Handbook of Moths of Great Britain and Ireland* but these still covered only a small part of the micro-lepidoptera. He made frequent visits to the British Museum where he would consult those legends of Lepidoptera; Aggasiz, Bradley, Heath, Pelham-Clinton, Tremewan and the like.

Richard could not have foreseen the rapid growth in interest in Lepidoptera and particularly the sudden availability of identification literature, the on-line sources and digital photography, all of which have contributed to an interest in the Micro-lepidoptera.

I thought it appropriate to make this work available as an historical reference and to work towards updating it over the coming year. Please note, however, that it retains the nomenclature that was extant at the time of its publication.

My thanks go to the Potteries Museum and Art Gallery and the Staffordshire Wildlife Trust for permission to produce this re-edited edition.

David Emley

Staffordshire Moth Recorder

2013

## The Smaller Moths of Staffordshire

The *Atlas of the Lepidoptera of Staffordshire*, published in six parts from 1975 to 1981 with a revised edition of Part 1 in 1983, covered the butterflies and larger moths of the County. The smaller moths, sometimes called the Micro-lepidoptera, were not included because knowledge of the distribution of these within the County was too limited for the production of adequate maps. Nevertheless, a considerable body of data does exist on these species, which comprise some 700 out of the total 1500 species of Lepidoptera recorded in Staffordshire. The last collated list of Staffordshire Micro-lepidoptera was that of the late H.W.Daltry, F.R.E.S. in the *Transactions of the North Staffordshire Field Club* 1925 to 1929. The object of the present list, which incorporates Daltry's and earlier records, is to bring together the information which has accumulated since.

Coverage of the County has been very uneven. The northern two-thirds, approximately north of Watling Street, has been fairly well covered, while to the south of this line records are very scanty. The Burton area was well recorded in the nineteenth century but there have been few recent records. Any attempt at assessment of the status of a particular species has had to be made subject to these reservations.

The order and nomenclature of the present list is that of Bradley & Fletcher, "*An Indexed List of British Butterflies and Moths*" 1986. The species covered are those numbered 1 to 1524 in the Log Book, with the exception of the families *Hepialidae*, *Cossidae*, *Zygaenidae* and *Sesiidae*, which were included in Part 6 of the Atlas. A brief description of each family is given, together with the number of species in the family in Britain and in Staffordshire. Each species is then listed with localities and recorders or, in the case of the commoner species, an assessment of their status. Food plants are given where this is relevant to the distribution of the species.

Records are arranged as follows :-

1. Records in the Victoria County History (VCH), 1908.
2. Records between 1910 and 1950, including those in Daltry's list.
3. Records subsequent to 1950, including the writer's assessment of the species' status where this can be given, or "NRR" (No Recent Record).

Recorders are referred to by their initials and a list of these is given, also a gazetteer indicating the situation of localities in 10km squares. The list makes no claim to be exhaustive, many gaps remain to be filled but it is an attempt to summarise the present state of knowledge of the smaller moths of Staffordshire in the hope that others may build on it. No doubt it will soon become out of date.

### Acknowledgements

I would like to thank everyone who has made the production of this publication possible; the contributors, Carol Weston and Linda Frayling of the City Museum and Art Gallery for typing the text into the word processor, Geoff Halfpenny for his comments on the text and subsequent editing and the North Staffordshire Field Club for its generosity in making funds available from the Professor Beaver Memorial Fund to have a number of presentation copies specially bound.

October 1987

R.G.Warren

## Recorders

The following recorders are referred to by their initials; their locations (or area recorded) and the period covered by their records are also given where known.

GAA or Arnold	G.A. & M.A. Arnold	Tamworth	1959-
CGB	C.G. Barrett	(Cannock Chase)	in VCH
WGB	W.G. Blatch		in VCH
EDB	E.D. Bostock	Tixall	1883-1920
RCB	R.C. Bradley		in VCH
EB	Edwin Brown	Burton-on-Trent	1869 (in VCH)
HLB	H.L. Burrows	Manchester (Burnt Wood)	1926-68
HWD	H.W. Daltry	Madeley	1924-50
TWD	Rev.T.W. Daltry	Madeley	in VCH
DAD	D.A. Dawson	Hartshill	1970-
AME	Col. A.M. Emmet	(Gailey)	1976
DWE	D.W. Emley	Trent Vale	1974-
RF	Dr.R. Freer	Rugeley	1878-1911
HCH	H.C. Hayward	Repton	1920-34
JAH	J.A. Herbert	Blythe Bridge (Kingstone)	1970-
Hill	J.& W. Hill	Leek	1897-1946
IOJ	I.O. Jones	Ashley Heath	1983-
ESL	Rev. E.S. Lewis	Forton	1922-38
WM	W. Mansbridge	(Burnt Wood)	1920-22
GM	G. Moss	Eccleshall	1982-
FAN	F.A. Noble	Kinver Edge	1980-84
R.& A.N.	R. & A. Normand	Handsworth Wood	1982-
MJS	M.J. Sterling	(Dovedale)	1984-
RJT	R.J. Thomas	Nuneaton	
VCH	Victoria County History		1908
CJW	C.J. Wainwright	Handsworth	in VCH
RGW	R.G. Warren	Trentham	1925-
AJW	A.J. Wood	Tipton	1983-

## Gazetteer

Allimore Green	SJ81	Gailey	SJ91
Alton	SK04	Gnosall	SJ82
Alvecote	SK20	Goldsitch Moss	SK06
Apedale	SJ84	Great Haywood	SJ92
Aqualate	SJ72		
Armitage	SK01	Halmerend	SJ74
Ashenhurst	SK05	Hamps Valley	SK05
Ashley Heath	SJ73	Hamstall Ridware	SK11
		Hanbury	SK12
Bagnall	SJ95	Hanchurch	SJ84
Bagots Wood	SK02	Handsworth Wood	SP09
Balterley Heath	SJ75	Hanley	SJ84
Barlaston	SJ83	Hardiwick Heath	SJ93
Bemersley	SJ85	Hawksmoor	SK04
Betley/Betley Mere	SJ74	Henhurst	SK22
Bishops Offley	SJ72	Hopwas Wood	SK10
Blore	SK14		
Blythe Bridge Mill	SK02	Ilam	SK15
Brocton	SJ92	Ipstones Edge	SK05
Burnt Wood	SJ73		
Burton	SK22	Keele	SJ84
		Kinver Edge	S088
Cannock Chase	SJ91/SK01	Knightley Park	SK22
Castern Wood	SK15	Knypersley	SJ85
Cauldon Low	SK05		
Caverswall	SJ94	Leek	SJ95
Chapel Chorlton	SJ73	Leycett	SJ74
Chartley Moss	SK02	Loynton Moss	SJ72
Cheddleton	SJ95		
Chillington	SJ80	Madeley	SJ74
Chorlton Moss	SJ73	Maer/Maer Woods	SJ73/74
Churnet Valley	SJ94/95; SK04/05	Manifold Valley	SK05/15
Clay Mills	SK22	Marchington	SK13
Cloud, The	SJ96	Hayfield	SK14
Colton	SK01	Meaford	SJ83
Consall	SJ94	Milford	SJ92
Coombes Valley	SK05	Moddershall	SJ93
Copmere	SJ82	MorrIDGE	SK06
Craddocks Moss	SJ74	Mucklestone	SJ73
Dane Valley	SJ96	Needwood Forest	SK12
Dimmingsdale	SK04	Newcastle	SJ84
Doley Common	SJ82	Norbury	SJ72
Dovedale	SK15		
Downs Banks	SJ83/93	Oakamoor	SK04
Dydon Wood	SK14		
		Penkridge	SJ91
Eccleshall	SJ82		
Enville	S088	Roches	SJ96/SK06
		Rudyard Lake	SJ95/96
Fairoak	SJ73	Rugeley	SK01
Fauld	SK12		
Forton	SJ72	Seighford	SJ82

Shobnall	SK22	Trentham	SJ84
Shugborough	SJ92		
Sinai Park	SK22	Upper Hulme	SK06
Stableford	SJ83	Uttoxeter	SK03
Stafford	SJ92		
Stanton	SK14	Wall Grange	SJ95
Stapenhill	SK22	Waltons Wood	SJ74
Stockton Brook	SJ95	Waterhouses	SK05
Swallow Moss	SK06	Wednesfield	S099
Swynnerton	SJ83	Werrington	SJ94
		Wetley Moor	SJ94
Tamworth	SK20	Whiston Eaves	SK04
Talke	SJ85	Whitgreave	SJ82
Tatenhill	SK22	Whitmore Common	SJ74
Tipton	S099	Wilnecote	SK20
Tixall	SJ92	Wrinehill	SJ74

## Micropterigidae

Very small purple and gold moths, distinguished from all other families by the possession of mandibles in the adults, which feed on pollen. Little is known of the early stages. Four of the five British species occur in Staffordshire.

- 1 ***Micropterix tunbergella* Fabricius** Henhurst (EB) VCH. Dovedale (HWD); Burnt Wood (HLB). Local, chiefly in woods on limestone, Dovedale & Manifold Valley.
- 3 ***Micropterix aureatella* Scopoli** Burton (EB); Cannock Chase (CGB) VCH. Burnt Wood, Maer, Madeley, Swynnerton (HWD); Churnet Valley, Ipstones Edge (RGW). Locally common.
- 4 ***Micropterix aruncella* Scopoli** Henhurst (EB) VCH. Madeley, Manifold Valley, Dovedale (HWD). Loynton Moss, Trentham, Chartley Moss (RGW). Locally common.
- 5 ***Micropterix calthella* Linnaeus** Henhurst (EB); Burton; Stafford (CGB) VCH. Very common, especially in marshy places (HWD, RGW).

## Eriocraniidae

Small purple and gold moths, day-flying in early spring. The larvae make large blotches in leaves of trees, especially birch. Seven of the eight British species occur in Staffordshire.

- 6 ***Eriocrania subpurpurella* Haworth** Henhurst (EB); Burton; Hopwas Wood (WGB) VCH. Common on oak (HWD). Widespread and common in oak woods.
- 8 ***Eriocrania unimaculella* Zetterstedt** Very common locally on birch (HWD, RGW)
- 9 ***Eriocrania sparrmannella* Bosc** Maer, Craddocks Moss, Madeley, Cannock Chase (HWD). Burnt Wood, Swynnerton, Trentham, Downs Banks, Churnet Valley (RGW). Local and uncommon.
- 10 ***Eriocrania salopiella* Stainton** Burnt Wood (HWD, RGW); Cannock Chase (RGW). Local and rare.
- 11 ***Eriocrania haworthi* Bradley** Loynton Moss, Burnt Wood, Cannock Chase, Needwood Forest, locally common (RGW).
- 12 ***Eriocrania sangii* Wood** Burnt Wood, Cannock Chase, Needwood Forest (RGW).
- 13 ***Eriocrania semipurpurella* Stephens** Rugeley (RF) VCH. Very common on birch (HWD, RGW).

## Nepticulidae

A large family of very small moths including the smallest moths known to science. Some are unicolorous but many have brilliant metallic markings. The larvae are miners, mostly in leaves, a few in soft bark. The leaf mines are much more readily found than the moths and many of the species can be identified from the mines alone. Of the 100 British species, 33 have been identified in Staffordshire.

- 19 ***Bohemannia quadrimaculella* Boheman** Alder. Madeley (HWD). Burnt Wood (RGW).
- 40 ***Bohemannia pulverosella* Stainton** *Malus* spp. Madeley, Mucklestone (HWD); Chorlton Moss (RGW).
- 20 ***Etainia decentella* Herrich-Schäffer** Sycamore seeds. Newcastle (RGW).
- 23 ***Ectoedemia argyropeza* Zeller** Aspen. Burnt Wood (WM, RGW); Madeley (HWD); Swynnerton (RGW).
- 25 ***Ectoedemia intimella* Zeller** Burton (EB) VCH. Alvecote (RJT). *Salix*.
- 28 ***Ectoedemia angulifasciella* Set.** Burton (EB) VCH. *Rosa* spp. Madeley (HWD). Alvecote (RJT).
- 29 ***Ectoedemia atricollis* Stainton** Hawthorn. Madeley (HWD). Norbury, Hanchurch, Churnet Valley, Uttoxeter, generally common (RGW).
- 34 ***Ectoedemia occultella* Linnaeus** Burton (EB) VCH. Very common on birch (HWD, RGW).
- 35 ***Ectoedemia minimella* Zetterstedt** Birch. Gailey 1976 (AME); Leek (RGW).
- 37 ***Ectoedemia albifasciella* Heinemann** Oak. Gailey 1976 (AME); Betley Mere, Trentham, Moddershall, Tamworth (RGW).
- 38 ***Ectoedemia subbimaculella* Haworth** Burton VCH. Oak. Cannock Chase, Madeley, Swynnerton (HWD). Gailey (AME).
- 42 ***Fomoria septembrella* Stainton** *Hypericum*. Burnt Wood (HLB); Trentham, Coombes Valley, Needwood Forest.
- 43 ***Fomoria weaveri* Stainton** Henhurst (EB) VCH. *Vaccinium vitis-idaea*. Burnt Wood (WM); Maer Woods (HWD); Swynnerton, Cannock Chase, Oakamoor (RGW).
- 46 ***Trifurcula immundella* Zeller** Broom. Madeley (HWD); Burnt Wood, Leycett, Trentham, Downs Banks (RGW).
- 50 ***Stigmella aurella* Fabricius** Burton (EB) VCH. Madeley (HWD). Widespread and common on *Rubus*.
- 53 ***Stigmella splendidissimella* Herrich-Schäffer** Burton VCH. Trentham (RGW). On *Rubus*.

- 63 ***Stigmella marginicolella* Stainton** Burton VCH. Elm. Trentham (Hem Heath Wood) 1983 (RGW).
- 64 ***Stigmella continuella* Stainton** Birch. Chartley Moss (HLB); Trentham, Talke, Alton (RGW).
- 66 ***Stigmella sorbi* Stainton** Burnt Wood (HWD). Widespread on rowan.
- 67 ***Stigmella plagicolella* Stainton** Henhurst VCH. Trentham (Hem Heath Wood) (RGW). On *Prunus*.
- 68 ***Stigmella salicis* Stainton** Burnt Wood, Manifold Valley, Morridge (HWD). Common and widespread on *Salix*.
- 72 ***Stigmella myrtillella* Stainton** Cannock Chase (CGB) VCH. *Vaccinium myrtillus*. Burnt Wood, Maer Woods, Swynnerton (HWD).
- 73 ***Stigmella trimaculella* Haworth** Burton VCH. Poplar. Madeley (HWD).
- 75 ***Stigmella flosactella* Haworth** Burton (EB) VCH. Madeley, Whiston Eaves WD). Common and widespread on hazel.
- 77 ***Stigmella tityrella* Stainton**. Beech. Maer Woods (HWD). Widespread and common.
- 78 ***Stigmella poulla* Vaughan** *Malus* spp. Madeley (HWD); Chorlton Moss (RGW).
- 79 ***Stigmella perpygmaeella* Doubleday** Burton VCH. Hawthorn. Madeley (HWD); Norbury; Uttoxeter (RGW).
- 80 ***Stigmella ulmivora* Fologne** Elm. Gailey 1976 (AME). Swynnerton, Copmere, Trentham (RGW).
- 81 ***Stigmella hemargyrella* Kollar** Branston VCH. Dovedale (HWD). Trentham, Churnet Valley, Hopwas Wood (RGW). On beech, sometimes at rest on the trunks.
- 83 ***Stigmella atricapitella* Haworth** Oak. Probably common; records pre-1971 are unreliable because the distinctions between this and the following two species were not understood.
- 84 ***Stigmella ruficapitella* Haworth** Burton (EB)
- 92 ***Stigmella anomalella* Goeze** Burton VCH.
- 93 ***Stigmella centifoliella* Zeller** *Rosa* spp. Madeley (HWD). Trentham (RGW).
- 95 ***Stigmella viscerella* Stainton** Elm. Madeley, Haywood (RGW).
- 97 ***Stigmella malella* Stainton** Burton VCH. *Malus* spp. Chorlton Moss, Barlaston, Consall (RGW).
- 99 ***Stigmella hybnerella* Hübner** Burton (EB) VCH. Hawthorn. Trentham, Caverswall, Coombe Valley (RGW).
- 100 ***Stigmella oxyacanthella* Stainton** Burton; Tixall (EDB) VCH. Madeley (HWD). Widespread and common on hawthorn.
- 103 ***Stigmella nylandriella* Tengsdröm** Rowan. Madeley, Maer Woods (HWD). Talke, Churnet Valley (RGW).
- 107 ***Stigmella regiella* Herrich-Schäffer** Hawthorn. Madeley, Dovedale (HWD).
- 108 ***Stigmella crataegella* Klimesch** Hawthorn. Widespread and common (RGW).
- 110 ***Stigmella betulicola* Stainton** Birch. Gailey 1976 (AME); Balterley Heath, Madeley (RGW).
- 111 ***Stigmella microtheriella* Stainton** Burton VCH. Hazel. Madeley, locally common (HWD). Widespread (RGW).
- 112 ***Stigmella luteella* Stainton** Birch. Madeley, Maer Woods, Swynnerton (HWD). Gailey 1976 (AME). Widespread and common (RGW).
- 114 ***Stigmella glutinosae* Stainton** Alder. Coombes Valley, Alton (RGW).
- 115 ***Stigmella alnetella* Stainton** Alder. Betley Mere, Trentham, Stafford, Seighford (RGW).
- 116 ***Stigmella lapponica* Wocke** Birch. Burnt Wood, Madeley, Maer Woods, Swynnerton, The Cloud (HWD). Common and widespread (RGW).
- 117 ***Stigmella confusella* Wood** Birch. Widespread and common.

## Opostegidae

Only one of the four British species of this family occurs in Staffordshire, a very small white moth found in grassy places.

- 119 ***Opostega salaciella* Treitschke** Madeley (HWD). Trentham, Chartley Moss, Coombes Valley (RGW).

## Tischeriidae

Very small unicolorous moths, the larvae forming blotches in leaves of trees and shrubs. Four of the six British species occur in Staffordshire.

- 123 ***Tischeria ekebladella* Bjerkander** Burton (EB); Cannock Chase (CGB); Hopwas Wood (WGB) VCH. Burnt Wood; rather common in woods (HWD). Widespread on oak (RGW).
- 124 ***Tischeria dodonaea* Stainton** Burnt Wood (HWD); Trentham; local in oak woods (RGW).



- 125 *Tischeria marginata* Haworth Burton (EB) VCH. Madeley; very common on bramble (HWD). Widespread (RGW).
- 127 *Tischeria angusticolella* Duponchel On *Rosa* spp.; Madeley (HWD).

## Incurvariidae

Medium-sized day-flying moths; the genera *Nematopogon*, *Nemophora* and *Adela* have exceptionally long antennae and are known as 'longhorns'.

- 128 *Phylloporia bistrigella* Haworth Burnt Wood (WM); Chartley Moss, Madeley, Swynnerton (HWD). Widespread but infrequent among birch.
- 129 *Incurvaria pectinea* Haworth Hopwas Wood (RCB); Rugeley (RF) VCH. Burnt Wood (WM, HWD, RGW); Maer Woods, Swynnerton, Cannock Chase (HWD); Kinver Edge (FAN). Locally common in woods.
- 130 *Incurvaria masculella* Denis & Schiffermüller Henhurst (EB); Cannock Chase (CGB); Hopwas Wood (WGB); Rugeley (RF) VCH. Madeley (HWD). Widespread and common.
- 131 *Lampronia oehlmanniella* Hübner Burnt Wood (WM, HWD, RGW); Chartley Moss (HWD); Swynnerton, Trentham, Churnet Valley, Needwood Forest, local and uncommon (RGW).
- 132 *Lampronia praelatella* Denis & Schiffermüller Sinai Park (EB) VCH. NRR.
- 133 *Lampronia capitella* Clerck Tixall (EDB) VCH. NRR.
- 135 *Lampronia luzella* Hübner Burton (EB) VCH. Burnt Wood (WM, HWD, RGW), Chartley Moss, Madeley (HWD); Churnet Valley, The Cloud, local and uncommon (RGW).
- 136 *Lampronia rubiella* Bjerkander Tixall (EDB) VCH. Common on raspberry, especially the wild form (HWD).
- 137 *Lampronia morosa* Zeller Madeley (HWD). The only record.
- 140 *Nematopogon swammerdamella* Linnaeus Burton (EB); Cannock Chase (CGB); Rugeley (RF) VCH. Widespread and common.
- 141 *Nematopogon schwarziellus* Zeller Burton (EB); Cannock Chase (CGB) VCH. Widespread and common.
- 145 *Nemophora minimella* Denis & Schiffermüller Burnt Wood, Downs Banks, Churnet Valley, local and uncommon (RGW).
- 146 *Nemophora cupriacella* Hübner Manifold Valley (HWD). NRR.
- 148 *Nemophora degeerella* Linnaeus Cannock Chase (CGB); Rugeley, common (RF) VCH. Common, Loynton Moss, Madeley (HWD). Common, flying in sunshine in woodland glades (RGW).
- 150 *Adela reaumurella* Linnaeus Cannock Chase (CGB); Rugeley, common (RF) VCH. Abundant (HWD). Widespread, mating swarms of males over tips of branches in sunshine (RGW).
- 151 *Adela croesella* Scopoli Cannock Chase (CGB) VCH. NRR.
- 152 *Adela rufimitrella* Scopoli Needwood, common VCH. Burnt Wood (HLB); Madeley, Dovedale (HWD); Doley Common, Downs Banks, Churnet Valley, locally common on flowers of *Cardamine*.
- 153 *Adela fibulella* Denis & Schiffermüller Madeley, Dovedale (HWD); Burnt Wood (HLB); Manifold Valley, 1985, on flowers of *Veronica*.

## Heliozelidae

Very small day-flying moths, the larvae mining petioles and leaves. Three of the six British species occur in Staffordshire.

- 154 *Heliozela sericiella* Haworth Henhurst (EB) VCH. Burnt Wood (WM). Widespread and common (RGW).
- 156 *Heliozela resplendella* Stainton Madeley (HWD). The only record.
- 157 *Heliozela hammoniella* Sorhagen Craddocks Moss, Maer Woods, Chartley Moss, Hawksmoor (HWD); Burnt Wood, Apedale, local and uncommon (RGW).

## Psychidae

A highly specialised family of small to medium-sized moths. The larvae feed in cases constructed of bark, lichen or grasses. The females of most species are wingless and do not leave the case. Some species are parthenogenetic. The family is much under-recorded, five of the 20 British species having been recognised in Staffordshire.

- 175 *Narycia monilifera* Geoffroy Cannock Chase (HWD). The only record.
- 177 *Solenobia inconspicuella* Stainton Hopwas Wood (EB); Rugeley (RF) VCH. Burnt Wood (HLB, RGW); Swynnerton (HWD, RGW); Cannock Chase, Dovedale (RGW).

- 180 ***Diplodoma herminata* Geoffroy** Cannock Chase (CGB) VCH. Madeley, 2 examples in house, possibly introduced (HWD). NRR.
- 181 ***Taleporia tubulosa* Retzius** Cannock Chase (CGB, WGB); Rugeley, common (RF) VCH. Burnt Wood (HLB); Cannock Chase (HWD, RGW); Bishops Offley (RGW); Kinver Edge (FAN).
- 186 ***Psyche casta* Pallas** Cannock Chase (CGB, RF); Rugeley, common (RF) VCH. Burnt Wood, Swynnerton, Cannock Chase, Dovedale (HWD); Kinver Edge (FAN). Common, cases frequently to be seen on tree trunks and fences (RGW).

## Tineidae

The 'Clothes moths'. The larvae feed on stored matter of animal or vegetable origin, some in nests of birds or Hymenoptera. Some are pests of economic importance.

- 212 ***Haplotinea insectella* Fabricius** Tatenhill (EB); Rugeley (RF) VCH. NRR.
- 215 ***Nemapogon granella* Linnaeus** Burton VCH. NRR.
- 216 ***Nemapogon cloacella* Haworth** Burton (RF); Cannock Chase (CGB); Rugeley, very common (RF) VCH. Very common generally (HWD, RGW).
- 220 ***Nemapogon clematella* Fabricius** Henhurst (EB) VCH. NRR.
- 223 ***Nemaxera betulinella* Fabricius** Rugeley (RF) VCH. Burnt Wood, Cannock Chase (HWD). Not common, Loynton Moss, Maer Woods, Swynnerton, Trentham, Needwood Forest (RGW).
- 225 ***Triaxomera fulvimitrella* Sodoffsky** Burton (EB); Cannock Chase (CGB, WGB); Rugeley (RF) VCH. Cannock Chase, Craddocks Moss, Madeley (HWD). Burnt Wood, Chorlton Moss, Trentham, Needwood Forest, Coombes Valley, local and uncommon (RGW).
- 227 ***Monopis laevigella* Denis & Schiffermüller** Burton (EB); Cannock Chase (CGB); Rugeley, very common (RF) VCH. Common generally (HWD, RGW). Has been bred from owl pellets.
- 228 ***Monopis weaverella* Scott** Burnt Wood (HWD). The only record.
- 229 ***Monopis obviella* Denis & Schiffermüller** Cannock Chase, 1952; Newcastle, Trentham (RGW).
- 234 ***Trichophaga tapetzella* Linnaeus** Burton, common (EB); Rugeley, common (RF) VCH. Madeley (HWD). NRR.
- 236 ***Tineola bisselliella* Hummel** Tixall (EDB) VCH. Madeley, once only (HWD). Trentham, Coombes Valley (RGW). Once a pest in houses, now rarely seen.
- 237 ***Niditinea fuscella* Linnaeus** Tatenhill, Burton (EB); Rugeley (RF) VCH. Madeley (HWD); Trentham, Coombes Valley (RGW). Common in houses.
- 240 ***Tinea pellionella* Linnaeus** Burton VCH. Madeley (HWD). Trentham, Wall Grange (RGW). Very common in houses.
- 244 ***Tinea flavescens* Haworth** Burton VCH. NRR.
- 245 ***Tinea pallescentella* Stainton** Burton VCH. Leek (Hill); Hanley 1944 (HWD); Trentham, Churnet Valley (RGW)
- 246 ***Tinea semifulvella* Haworth** Henhurst (RB); Burton; Tixall (EDB); Rugeley (RF) VCR. Leek (Hill); Burnt Wood (WM, HWD, RGW); Maer Woods, Madeley, Cannock Chase (HWD); Trentham, Coombes Valley (RGW).
- 247 ***Tinea trinotella* Thunberg** Burton (EB); Rugeley (RF) VCH. Burnt Wood (WM, RGW). Madeley, Whiston Eaves (HWD); Trentham, Coombes Valley (RGW).

## Ochsenheimeriidae

Small day-flying moths found in grassy places. All three British species have been found in Staffordshire.

- 251 ***Ochsenheimeria mediopectinellus* Haworth** Madeley (HWD); Alvecote 1967 (GAA); Cannock Chase, Castern Wood (RGW).
- 252 ***Ochsenheimeria urella* Fischer von Röslerstamm** Hawksmoor, Morridge, Dovedale (HWD). Downs Banks, Cannock Chase, Knypersley, Churnet Valley, locally common especially in upland grasslands (RGW).
- 253 ***Ochsenheimeria vacculella* Fischer von Röslerstamm** Madeley, Burnt Wood (HWD). NRR.

## Lyonetiidae

Small or very small day-flying moths. The larvae mostly mine leaves or stems. 14 of the 23 British species occur in Staffs.

- 254 ***Leucoptera laburnella* Stainton** Burton, common VCH. Generally abundant on laburnum (HWD, RGW).
- 255 ***Leucoptera wailesella* Hübner** Madeley (HWD); Wall Grange (RGW) Very local on *Genista tinctoria*.
- 256 ***Leucoptera spartifoliella* Hübner** Burton (EB) VCH. Madeley (HWD). Generally common on broom.
- 260 ***Leucoptera malifoliella* Costa** Burton (EB) VCH. NRR, possibly overlooked.
- 263 ***Lyonetia clerkella* Linnaeus** Henhurst (EB); Burton VCH. Rather common generally (HWD, RGW).
- 264 ***Bedellia somnulentella* Zeller** Needwood Forest, 1969, bred (RGW); mines seen in hedgerows, Alvecote (GAA) and Eccleshall (RGW).
- 265 ***Bucculatrix cristatella* Zeller** Madeley (HWD). The only record.
- 266 ***Bucculatrix nigricomella* Zeller** Dovedale, bred 1967 (RGW)
- 271 ***Bucculatrix albedinella* Zeller** Burton (EB) VCH. NRR.
- 272 ***Bucculatrix cidarella* Zeller** Madeley, Cannock Chase (HWD). NRR.
- 273 ***Bucculatrix thoracella* Thunberg** Burton (EB) VCH. NRR.
- 274 ***Bucculatrix ulmella* Zeller** Burton (EB) VCH. Burnt Wood, Madeley, Swynnerton (HWD); Trentham, Cannock Chase (RGW).
- 275 ***Bucculatrix bechsteinella* Bech.& Scharfenberg** Burton (EB) VCH. NRR.
- 276 ***Bucculatrix demaryella* Duponchel** Burnt Wood, Chartley Moss (HWD, RGW).

## Gracillariidae

A large family of small or very small moths. The *Gracillariinae* are brightly coloured and have a characteristic posture with the fore part raised at an angle. The larvae mine at first and later feed in a folded or conically rolled leaf. The *Lithocolletinae* mine leaves - bark in one or two species - and in leaves they form a hollow chamber, arching the leaf in a characteristic manner. The moths are very pretty with a typical pattern of white or metallic strigulae. 54 out of the 92 British species have been found in Staffordshire.

### Gracillariinae

- 280 ***Caloptilia cuculipennella* Hübner** Henhurst (EB) VCH. Dovedale, 1954 (RGW)
- 282 ***Caloptilia elongella* Linnaeus** Burton (EB); Cannock Chase (CGB, RCB); Rugeley (RF) VCH. Rather common generally (HWD). Some of these records may refer to *C. betulicola*, since the two species were not formerly separated. Trentham, Churnet Valley, Dovedale (RGW).
- 283 ***Caloptilia betulicola* Hering** Burnt Wood, Maer Woods, Trentham, Downs Banks, Swynnerton, Cannock Chase, The Cloud, common on birch.
- 286 ***Caloptilia alchimiella* Scopoli** Henhurst (EB) VCH. On oak, rather common generally (HWD, RGW).
- 288 ***Caloptilia stigmatella* Fabricius** Henhurst (EB); Rugeley (RF) VCH. Madeley (HWD), Burnt Wood (HLB, RGW). On willow.
- 291 ***Caloptilia hemidactylella* Denis & Schiffmüller** Henhurst (EB) VCH. NRR.
- 293 ***Caloptilia syringella* Fabricius** Burton (EB) VCH. Abundant on privet, lilac and ash (HWD, RGW).
- 294 ***Aspilapteryx tringipennella* Zeller** Madeley (RGW); general and rather common on plantain, especially on the limestone.
- 296 ***Calybites phasianipennella* Hübner** Madeley (HWD); Loynton Moss, Maer Woods, Trentham (RGW)
- 297 ***Calybites auroguttella* Stephens** Henhurst (EB) VCH. Dovedale (HWD, RGW). Coombes Valley; very local on *Hypericum*.
- 300 ***Parornix loganella* Stainton** Burnt Wood (HWD). The only record.
- 301 ***Parornix betulae* Stainton** Cannock Chase (CGB, WGB) VCH. Burnt Wood (WM); Madeley, Maer Woods, Swynnerton (HWD). Generally common on birch.
- 303 ***Parornix anglicella* Stainton** Burton (EB); Cannock Chase (CGB); Rugeley (RF) VCH. Madeley (HWD). Generally common on hawthorn.
- 304 ***Parornix devoniella* Stainton** Madeley, common (HWD); generally common on hazel.
- 305 ***Parornix scoticella* Stainton** Madeley, Maer Woods, Swynnerton (HWD) Churnet Valley, Ipstones Edge, locally common on rowan (RGW).
- 309 ***Parornix torquillella* Zeller** Burton (EB) VCH. Madeley (HWD); Burnt Wood, Needwood Forest, Manifold Valley, locally common on blackthorn.
- 310 ***Callisto denticulella* Thunberg** Rugeley (RF) VCH. Madeley, Whiston Eaves (HWD); Barlaston, 1940 (RGW). No further record.

## Lithocolletinae

- 315 ***Phyllonorycter harrisella* Linnaeus** Burton (EB); Cannock Chase (CGB) VCH. Very common generally on oak (HWD, RGW).
- 316 ***Phyllonorycter roboris* Zeller** Cannock Chase (CGB) VCH. Burnt Wood (WM); Swynnerton (HWD, RGW); Trentham, Moddershall, Churnet Valley, local and scarce on oak (RGW).
- 317 ***Phyllonorycter heegeriella* Zeller** Burton (ES) VCH. Burnt Wood, Maer Woods (HWD); Trentham (RGW). Local, on oak.
- 320 ***Phyllonorycter quercifoliella* Zeller** Burton (EB); Cannock Chase (CGB) VCH. Very common generally on oak (HWD, RGW).
- 321 ***Phyllonorycter messaniella* Zeller** Burton (EB) VCH. Madeley, Whiston Eaves (HWD); Loynton Moss, Barlaston, Ilam, mines on *Quercus ilex*.
- 322 ***Phyllonorycter muelleriella* Zeller** Burnt Wood, Madeley (HWD); Dimmingsdale 1936; Loynton Moss; on oak, rare and local (RGW).
- 323 ***Phyllonorycter oxyacanthae* Frey** Burnt Wood (WM); Madeley, Cheadle (HWD). Generally common on hawthorn (RGW).
- 324 ***Phyllonorycter sorbi* Frey** Common on rowan (HWD, RGW).
- 326 ***Phyllonorycter blancardella* Fabricius** Burnt Wood, Madeley (HWD). Generally common on apple (RGW)
- 327 ***Phyllonorycter cydoniella* Denis & Schiffermüller** Burton (EB) VCH. Craddocks Moss, Madeley (HWD). On apple.
- 328 ***Phyllonorycter junoniella* Zeller** Maer Woods (HWD); formerly Burnt Wood; Swynnerton, Cannock Chase, The Cloud, Churnet Valley, Leek Moors, mines on *Vaccinium vitis-idaea* (RGW)
- 329 ***Phyllonorycter spinicolella* Zeller** Rolleston Road, Burton VCH. Madeley (HWD). Mines common on blackthorn (RGW)
- 332 ***Phyllonorycter corylifoliella* Hübner** Burton (EB) VCH. Madeley (HWD); Downs Banks, Moddershall, Bagnall, Churnet Valley, Chartley Moss, on birch and hawthorn (RGW).
- 333 ***Phyllonorycter viminiella* Sircom** Burton (EB) VCH. Aqualate, Madeley (HWD); widespread on *Salix* spp. (RGW)
- 335 ***Phyllonorycter salicicolella* Sircom** Burton (EB) VCH. Madeley (HWD). Generally common on willows (RGW)
- 337 ***Phyllonorycter hilarella* Zetterstedt** Burton (EB) VCH. Madeley (HWD). Burnt Wood, Trentham, Chartley Moss, Churnet Valley, Hamps Valley, locally common on *Salix caprea* (RGW).
- 338 ***Phyllonorycter cavella* Zeller** Madeley, Maer Woods, Swynnerton (HWD). Burnt Wood, Trentham, Cannock Chase, Churnet Valley, The Cloud, Needwood Forest, mines on *Betula pendula*, rarely on *B. pubescens* (RGW).
- 340 ***Phyllonorycter scopariella* Zeller** Trentham, on broom in garden (RGW).
- 341 ***Phyllonorycter maestingella* Müller** Burton (EB) VCH. Madeley, Maer Woods, Swynnerton (HWD). Generally common on beech.
- 342 ***Phyllonorycter coryli* Nicelli** Burton VCH. Madeley (HWD). Common on hazel (RGW).
- 345 ***Phyllonorycter rajella* Linnaeus** Burton (EB) VCH. Generally common on alder (HWD, RGW).
- 347 ***Phyllonorycter anderidae* Fletcher** Burnt Wood, Sandon (HLB). Craddocks Moss, Swynnerton, Chartley Moss, Wall Grange, mines found only on *Betula pubescens* and invariably in small leaves, usually of seedlings; most frequent on peaty ground (RGW).
- 351 ***Phyllonorycter lautella* Zeller** Burnt Wood (HWD, RGW); Needwood Forest (RGW). On oak, rarely found.
- 352 ***Phyllonorycter schreberella* Fabricius** Brocton, Copmere, Stone, Stableford, Whitgreave; mines on *Ulmus procera*, never bred from *U. glabra*. Possibly now extinct in the county.
- 353 ***Phyllonorycter ulmifoliella* Hübner** Burton (EB); Cannock Chase (CGB) VCH. Very common generally on birch (HWD, RGW).
- 354 ***Phyllonorycter emberizaepenella* Bouche** Madeley (HWD); Burnt Wood, Swynnerton, Moddershall, Churnet Valley, Kinver Edge, locally common on honeysuckle (RGW).
- 356 ***Phyllonorycter tristrigella* Haworth** Burton (EB) VCH. Madeley (HWD). Locally common on elm, both *Ulmus glabra* and *U. procera* (RGW).
- 357 ***Phyllonorycter stettinensis* Nicelli** Madeley, Cannock Chase (HWD). Burnt Wood, Trentham, Downs Banks, Churnet Valley, Dydon Wood, locally frequent on alder (RGW).

- 358 ***Phyllonorycter froelichiella* Zeller** Madeley (HWD). Moddershall, Churnet Valley, Needwood Forest, local and uncommon on alder (RGW).
- 359 ***Phyllonorycter nicellii* Stainton** Burton, common VCH. Madeley (HWD). Common on hazel.
- 360 ***Phyllonorycter kleemannella* Fabricius** Burnt Wood, Madeley (HWD). Dimmingsdale (RGW). Local and least common of the alder species.
- 361 ***Phyllonorycter trifasciella* Haworth** Burton (EB) VCH. Burnt Wood, Madeley (HWD). Trentham, Churnet Valley, locally common on honeysuckle (RGW).
- 362 ***Phyllonorycter acerifoliella* Zeller** Burton (EB) VCH. Dovedale (HWD, RGW). Castern Wood, Alvecote, local and scarce on field maple (RGW).
- 364 ***Phyllonorycter geniculella* Ragonot** First recorded Coombes Valley, 1937 (RGW); now widespread and common on sycamore.
- 365 ***Phyllonorycter comparella* Duponchel** Burnt Wood, on aspen (WM). NRR.

### Phyllocnistinae

- 367 ***Phyllocnistis saligna* Zeller** Loynton Moss (HWD). NRR.
- 368 ***Phyllocnistis unipunctella* Stephens** Loynton Moss, Madeley (HWD). Oakley Park, Trentham, Needwood Forest, probably common on poplar (RGW).

### Choreutidae

Small, dark, broad-winged moths; the abundant “Nettle Tap” is characteristic of the family. Three of the six British species occur in Staffordshire.

- 385 ***Anthophila fabriciana* Linnaeus** (The Nettle Tap). Burton, Very Common (EB); Rugeley, very common (RF) VCH. Common everywhere on nettles (HWD, RGW).
- 387 ***Prochoreutis sehestediana* Fabricius** Cannock Chase (HWD); Loynton Moss (RGW).
- 388 ***Prochoreutis myllerana* Fabricius** Cannock Chase (HWD); Trentham, Churnet Valley, Rudyard Lake, locally common on *Scutellaria* (RGW).

### Glyphipterigidae

Small, bronzy-metallic, day-flying moths with a characteristic habit of fanning their wings while at rest. The larvae feed in stems or on seeds. Five of the seven British species have been recorded in Staffordshire.

- 391 ***Glyphipterix simplicella* Stephens** Burton (EB); Stafford (CGB) VCH. Abundant on cocksfoot grass (HWD, RGW).
- 393 ***Glyphipterix equitella* Scopoli** Burton (EB) VCH. Dovedale 1984 (MJS). On *Sedum acre*.
- 395 ***Glyphipterix haworthana* Stephens** Craddocks Moss, Chartley Moss, Morridge. (HWD). Balterley Heath, Cannock Chase, Goldsitch Moss, Ipstones Edge, local on *Eriophorum*.
- 396 ***Glyphipterix fuscoviridella* Haworth** Burton (EB); Cannock Chase (CGB); Rugeley (RF) VCH. Very Common locally on *Luzula campestris*.
- 397 ***Glyphipterix thrasonella* Scopoli** Very common amongst rushes (HWD). Common but local in boggy places (RGW).

### Yponomeutidae

A large and diverse family; the *Argyresthiinae* are small, often brilliantly metallic, and rest with the rear part raised, the opposite position to that of the *Gracillariinae*. The *Yponomeutinae* include the ‘Ermines’, black-dotted white moths whose larvae feed gregariously in a web on shrubs, often covering a whole bush, while the *Plutellinae* have spindle-shaped larvae which feed in folded leaves or spun shoots. The adult moths hibernate and are inconspicuously coloured. The family comprises 79 British species and 46 have been recorded in Staffordshire.

### Argyresthiinae

- 401 ***Argyresthia laevigatella* Herrich-Schäffer** Burnt Wood, Maer Woods, Swynnerton, Whitmore Common (HWD). Trentham, Churnet Valley, Needwood Forest, common on larch (RGW).
- 403 ***Argyresthia glabratella* Zeller** Bishops Wood, Swynnerton (HWD). Burnt Wood, Coombes Valley, local and uncommon on spruce (RGW).
- 409 ***Argyresthia ivella* Haworth** Madeley (HWD). The only record.

- 410 ***Argyresthia brockeella* Hübner** Henhurst (EB); Tixall (EDB) VCH. Common generally on birch (HWD, RGW).
- 411 ***Argyresthia goedartella* Linnaeus** Henhurst (EB); Rugeley (RF) VCH. Common generally on willow (HWD, RGW).
- 412 ***Argyresthia pygmaeella* Denis & Schiffermüller** Henhurst (EB); Chartley (RCB) VCH. Common generally on willow (HWD, RGW).
- 413 ***Argyresthia sorbiella* Treitschke** Burnt Wood (WM, HWD, RGW). Madeley, Swynnerton (HWD); Maer Woods, Chartley Moss, Churnet Valley, The Cloud, local on rowan.
- 414 ***Argyresthia arcella* Fabricius** The Oaks, Burton (EB), Rugeley, very common (RF) VCH. Rather common on apple (HWD, RGW).
- 415 ***Argyresthia retinella* Zeller** Burton (EB) VCH. Very common on birch (HWD, RGW).
- 416 ***Argyresthia glaucinella* Zeller** Trentham, Cannock Chase, on bark of old oaks (RGW).
- 417 ***Argyresthia mendica* Haworth** Common on blackthorn (HWD). Likewise (RGW).
- 418 ***Argyresthia conjugella* Zeller** Very common on rowan; the larvae sometimes attacking and riddling full-grown apples in orchards with fine bores (HWD). The form *aerariella* Stainton occurs frequently with the type (HWD, RGW).
- 419 ***Argyresthia semifusca* Haworth** Burton, Henhurst (EB); Rugeley (RF) VCH. Chorlton Moss, Madeley, Maer Woods, Swynnerton (HWD). Locally common on rowan and sometimes on hawthorn (RGW).
- 420 ***Argyresthia pruniella* Clerck** Stapenhill VCH. Common on gean, Madeley (HWD). Locally common, Trentham, Stone, Bar Hill Wood (RGW).
- 421 ***Argyresthia bonnetella* Linnaeus** Henhurst, common (EB); Cannock Chase (CGB) VCH. Abundant everywhere on hawthorn (HWD, RGW).
- 422 ***Argyresthia albistria* Haworth** Henhurst, common (EB); Tutbury Road, Burton VCH. Common on blackthorn (HWD, RGW).
- 423 ***Argyresthia semitestacella* Curtis** Madeley, Maer Woods (HWD). Burnt Wood, Trentham, Downs Banks, Hopwas Wood, locally common on beech.

## Yponomeutinae

- 424 ***Yponomeuta evonymella* Linnaeus** Near Uttoxeter (EB) VCH. Madeley, Whitmore (HWD). Bishops Offley, Churnet Valley, Caverswall, locally abundant on *Prunus padus*.
- 425 ***Yponomeuta padella* Linnaeus** Burton, common (EB); Rugeley, very common (RF) VCH. Madeley (HWD). Burnt Wood, Trentham, Needwood Forest, stretches of hawthorn hedges appearing brown and leafless from the attacks of the larvae in some seasons (RGW).
- 426 ***Yponomeuta malinellus* Zeller** Madeley (HWD). The only record.
- 427 ***Yponomeuta cagnagella* Hübner** Burton (EB); Rugeley, very common (RF) VCH. Dovedale, on spindle (HWD, RGW). Needwood Forest, larval webs on a single bush of spindle, 1985.
- 432 ***Euhypnomyeta stannella* Thunberg** Dovedale, first British record, 2.vii.1926, 4 examples swept. Traces of larval webs on *Sedum telephium* seen near Thor's Cave, Manifold Valley. Fairly common in Dovedale in three, stations (HWD). Dovedale, common in one restricted area in 1973; still present but at low density (RGW).
- 435 ***Zelleria hepariella* Stainton** Henhurst (EB); Shobnall, Burton VCH. NRR.
- 436 ***Pseudoswammerdamia combinella* Hübner** Henhurst (EB); Rugeley (RF) VCH. Madeley (HWD). Meaford, Oakamoor; local and scarce (RGW).
- 437 ***Swammerdamia caesiella* Hübner** Burnt Wood (WM); Chorlton Moss, Madeley (HWD). Generally common on birch (RGW).
- 438 ***Swammerdamia pyrella* Villers** Burton (EB); Rugeley (RF) VCH. Madeley (HWD). Generally common (RGW).
- 439 ***Swammerdamia compunctella* Herrich-Schäffer** Coombes Valley, 1971; Burnt Wood (RGW).
- 440 ***Paraswammerdamia albicapitella* Scharfenberg** Burton VCH. Madeley (HWD). Norbury, Fair oak, Downs Banks, locally common on blackthorn (RGW).
- 441 ***Paraswammerdamia lutarea* Haworth** Burton VCH. Madeley (HWD). Common on hawthorn (RGW).
- 442 ***Cedestis gysselella* Zeller** Burnt Wood, Maer Woods (HWD); Swynnerton, Cannock Chase, on conifers (RGW).
- 443 ***Cedestis subfasciella* Stephens** Maer Woods, Hawkmoor, common (HWD). Trentham, Coombes Valley, common on conifers (RGW).
- 444 ***Ocnerostoma piniariella* Zeller** Burnt Wood, Madeley, Maer Woods, Chartley Moss, Whiston Eaves (HWD); Trentham, Swynnerton, The Cloud, common on pine (RGW).

- 449 ***Prays fraxinella* Bjerkander** Henhurst (EB); common in Handsworth, both type and black form (CJW); Rugeley, common (RF) VCH. Madeley, rather common on ash (HWD). General (RGW).
- 450 ***Scythropia crataegella* Linnaeus** Dovedale, 1 at MV 7.vii.1984 (MJS).

### Plutellinae

- 452 ***Ypsolopha nemorella* Linnaeus** Henhurst, scarce (EB) VCH. Madeley (HWD). Burnt Wood, Trentham, Swynnerton, Chartley Moss, Churnet Valley. Needwood Forest, local and uncommon on honeysuckle.
- 453 ***Ypsolopha dentella* Fabricius** Henhurst, common(EB); Tixall (EDB) VCH. Common on honeysuckle (HWD).
- 455 ***Ypsolopha scabrella* Linnaeus** Forton (ESL); not uncommon in hawthorn hedges (RGW).
- 459 ***Ypsolopha sylvella* Linnaeus** Once only, Bishops Offley, 1976 (RGW).
- 460 ***Ypsolopha parenthesella* Linnaeus** Henhurst, common (EB) VCH. Common generally (HWD, RGW).
- 461 ***Ypsolopha ustella* Clerck** Henhurst, common (EB) VCH. Burnt Wood, Maer Woods, Madeley, common in considerable variety (HWD). Common in oak woods (RGW).
- 462 ***Ypsolopha sequella* Clerck** Needwood Forest, 1946; Dovedale; probably established in these places on field maple. Churnet Valley, first recorded 1957, becoming frequent on sycamore and Norway maple; also since 1960 at Loynton Moss and Trentham (RGW).
- 463 ***Ypsolopha vittella* Linnaeus** Henhurst (EB) VCH. Madeley (HWD). Swynnerton, Trentham, Churnet Valley, Needwood Forest, Castern Wood, locally common on wych elm (RGW).
- 464 ***Plutella xylostella* Linnaeus** Burton, common (EB); Cannock Chase (CGB); Rugeley, very common (RF) VCH. Very common everywhere (HWD). More common in some seasons than others, depending on migration (RGW).
- 465 ***Plutella porrectella* Linnaeus** Burton, rare VCH. Madeley, common on rocket in garden (HWD). Trentham, Coombes Valley (RGW).
- 469 ***Eidophasia messingella* Fischer von Röslerstamm** Churnet Valley (HWD). Bishops Offley, Trentham, Knypersley, Cannock Chase, local on *Cardamine amara* (RGW).

### Orthotaeliinae

- 470 ***Orthotaelia sparganella* Thunberg** Burton VCH. Madeley (HWD). Bishops Offley, Eccleshall, Trentham, on *Sparganium* in ditches; probably under-recorded (RGW).

### Epermeniidae

Small moths, associated with *Umbelliferae*. The forewings of some species have prominent scale teeth. Four of the eight British species have been recorded in Staffordshire.

- 478 ***Phaulernis fulviguttella* Zeller** Henhurst (EB); Hopwas Wood (WGB) VCH. Madeley, common on flowers of *Heracleum* and *Angelica* (HWD). Trentham, Moddershall, Churnet Valley, Needwood Forest, apparently less common than formerly (RGW).
- 480 ***Cataplectica profugella* Stainton** Hamps Valley 1954 (RGW). The only record.
- 481 ***Epermenia illigerella* Hübner** Burton (EB) VCH. Only other record, Bishops Offley 1975; very local in a small marsh (RGW).
- 483 ***Epermenia chaerophyllella* Goeze** Madeley (HWD) High Offley, Downs Banks, Needwood Forest, local and scarce (RGW).

### Schreckensteiniidae

A single British species which occurs in Staffordshire, a small day-flying moth with narrow pointed wings.

- 485 ***Schreckensteinia festaliella* Hübner** Henhurst near Burton (EB) VCH. Madeley, common; Muckleston (HWD). Widespread and rather common (RGW).

### Coleophoridae

Small to medium-sized moths, narrow-winged, unicolorous or with obscure lines or pale streaks. The antennae, often distinctively ringed, are porrect in repose. The larvae, mining at first, then construct a case from leaf fragments or excavated seed-vessels, and these cases are often distinctive for the identification of the species. Of the 108 species on the British list, 31 have been recorded in Staffordshire, but the group is very much under-recorded.

- 490 ***Coleophora lutipennella* Zeller** Madeley (HWD). Generally common (RGW).
- 491 ***Coleophora gryphipennella* Hübner** Burton VCH. Madeley, Dovedale, (HWD). Wall Grange (RGW). On *Rosa* spp.
- 493 ***Coleophora serratella* Linnaeus** Burton (EB); Rugeley (RF) VCH. Madeley, Dovedale, abundant (HWD). Widespread and common (RGW).
- 494 ***Coleophora coracipennella* Hübner** Burton (EB); Cannock Chase (CGB); Rugeley (RF) VCH. Madeley (HWD). Trentham (RGW).
- 497 ***Coleophora badiipennella* Duponchel** Burton (EB) VCH. Madeley (HWD).
- 499 ***Coleophora limosipennella* Duponchel** Burnt Wood (WM); Swynnerton (HWD).
- 501 ***Coleophora siccifolia* Stainton** Tutbury Road, Burton; Tixall (EDB) VCH. Madeley (HWD).
- 502 ***Coleophora trigeminella* Fuchs** Madeley (HWD).
- 504 ***Coleophora viminetella* Zeller** Burton (EB) VCH. Madeley (HWD). Trentham; cases not uncommon on *Salix viminalis* (RGW).
- 506 ***Coleophora vitisella* Gregson** Maer Woods (HWD). The Cloud, Oakamoor, Ipstones Edge, local on *Vaccinium vitis-idaea* (RGW).
- 510 ***Coleophora juncicolella* Stainton** Whitmore Common, Chartley Moss, common on *Calluna* (HWD). Swynnerton, Roches (RGW).
- 511 ***Coleophora orbitella* Zeller** Maer Woods, Swynnerton, Chartley Moss (HWD).
- 515 ***Coleophora albitarsella* Zeller** Burton VCH. Dovedale (HWD).
- 518 ***Coleophora mayrella* Hübner** Madeley (HWD). Trentham (RGW).
- 526 ***Coleophora laricella* Hübner** Generally abundant on larch (HWD, RGW).
- 533 ***Coleophora anatipennella* Hübner** Madeley (HWD).
- 534 ***Coleophora currucipennella* Zeller** Cannock Chase, one, 1977 (RGW).
- 537 ***Coleophora palliatella* Zinck**. Madeley (HWD).
- 541 ***Coleophora pyrrhulipennella* Zeller** Maer Woods (HWD).
- 544 ***Coleophora albicosta* Haworth** Burnt Wood, Doley Common, Trentham, Cannock Chase, Coombes Valley, locally common on gorse (RGW).
- 545 ***Coleophora saturatella* Stainton** Madeley (HWD).
- 546 ***Coleophora genistae* Stainton** Cannock Chase, one at MV, 1973 (RGW, det. J.D. Bradley). A surprising record, as *Genista* does not grow in the area.
- 547 ***Coleophora discordella* Zeller** Madeley, Dovedale (HWD). Locally common on *Lotus* (RGW).
- 555 ***Coleophora follicularis* Vallot** Madeley (HWD). Needwood Forest (RGW).
- 560 ***Coleophora paripennella* Zeller** Burton VCH. Madeley (HWD).
- 563 ***Coleophora argentula* Stephens** Burton (EB) VCH. Coombes Valley (RGW).
- 564 ***Coleophora virgaureae* Stainton** On *Solidago*, Wall Grange, 1970 (RGW).
- 572 ***Coleophora vestianella* Linnaeus** Henhurst (EB); Burton VCH. Madeley (HWD). Loynton Moss (RGW).
- 578 ***Coleophora murnipennella* Duponchel** Burton (EB) VCH. Bishops Wood, Madeley, Muckleston, Cannock Chase (HWD). Generally common (RGW).
- 582 ***Coleophora glaucicolella* Wood** Madeley, common on *Juncus glaucus* (HWD). Trentham (RGW).
- 584 ***Coleophora alticolella* Zeller** Burton (EB); Cannock Chase (CGB) VCH. Very common on *Juncus* (HWD, RGW).

## Elachistidae

Small moths, mostly dark with pale spots, but some white with or without markings. The larvae mine leaves, chiefly grasses or sedges. Of the 45 British species, 29 have been found in Staffordshire.

- 590 ***Perittia obscurepunctella* Stainton** Madeley (HWD).
- 592 ***Stephensia brunnichella* Linnaeus** The Oaks, Burton (EB) VCH. Dovedale (HWD).
- 593 ***Elachista regificella* Sircom** Dovedale (HWD).
- 594 ***Elachista gleichenella* Fabricius** Dovedale (HWD).
- 595 ***Elachista biatomella* Stainton** Tixall (EDB) VCH. NRR.
- 596 ***Elachista poae* Stainton** Cheddleton, common on *Glyceria maxima* by the canal; Trentham (RGW).
- 597 ***Elachista atricomella* Stainton** Burton (EB). Madeley (HWD). Downs Banks, Cannock Chase, Coombes Valley, Dovedale, locally common (RGW).
- 598 ***Elachista kilmunella* Stainton** Chorlton Moss, Morridge, Roches (HWD). Chartley Moss; locally common on moors and mosses (RGW).
- 599 ***Elachista alpinella* Stainton** Madeley, Goldsitch Moss (HWD). Trentham, Cannock Chase (RGW).



- 600 ***Elachista luticomella* Zeller** The Oaks, Burton (EB); Henhurst; Rugeley (RF) VCH. Madeley (HWD). Widespread and rather common (RGW).
- 601 ***Elachista albifrontella* Hübner** The Oaks; Burton (EB); VCH. Madeley, rather common (HWD). Widespread and common (RGW).
- 602 ***Elachista apicipunctella* Stainton** Burnt Wood, Madeley, Chartley Moss, Manifold Valley, Dovedale (HWD). Loynton, Churnet Valley, Needwood Forest, local and not common (RGW).
- 603 ***Elachista subnigrella* Douglas** Burton VCH. Manifold Valley (HWD).
- 606 ***Elachista humilis* Frey** Burton VCH. Madeley, Manifold Valley (HWD).
- 607 ***Elachista canapennella* Hübner** Burton (EB); Cannock Chase (CGB) VCH. Common generally (HWD, RGW).
- 608 ***Elachista rufocinerea* Haworth** Burton, very common (EB); Rugeley (RF) VCH. Very common (HWD, RGW).
- 609 ***Elachista cerusella* Hübner** Burton (EB) VCH. Madeley (HWD). Trentham, Great Haywood, Coombes Valley, Hamstall Ridware (RGW) Tipton (AJW). Locally common on *Phalaris*.
- 610 ***Elachista argentella* Clerck** The Oaks, Burton (EB); Cannock Chase (CGB); Rugeley (RF) VCH. Very common (HWD, RGW).
- 611 ***Elachista triatomea* Haworth** Manifold Valley, Dovedale (HWD). Trentham, Cannock Chase (RGW).
- 613 ***Elachista subocellea* Stephens** Dovedale (HWD).
- 616a ***Elachista littorcola* Le March.** Whiston Eaves, Dovedale (HWD).
- 617 ***Elachista megerlella* Hübner** Burton (EB) VCH. Madeley (HWD).
- 621 ***Elachista subalbidella* Schläger** Burnt Wood, Whiston Eaves (HWD).
- 623 ***Elachista bisulcella* Duponchel** Burton (EB) VCH. Loynton Moss, Trentham, Coombes Valley, Needwood Forest, local and uncommon (RGW).
- 626 ***Biselachista serricornis* Stainton** Balterley Heath, one, 1973 (RGW).
- 628 ***Biselachista eleochariella* Stainton** Craddocks Moss, Cannock Chase, Whiston Eaves, Morridge (HWD).
- 629 ***Biselachista utonella* Frey** Downs Banks (RGW).
- 630 ***Biselachista albidella* Nylander** Morridge (HWD). Downs Banks, Balterley Heath, Wetley Moor, Cannock Chase, Chartley Moss, locally common on *Eriophorum*.
- 631 ***Cosmiotes freyerella* Hübner** Burton (EB) VCH. Madeley, Maer Woods, Dovedale (HWD). Coombes Valley (RGW).

## Oecophoridae

A large and diverse family, divided into five sub-families. The *Oecophorinae* are small to medium-sized moths whose larvae feed mainly on fungus, rotten wood or dried vegetable matter and include two familiar household pests, *Endrosis sarcitrella* and *Hofmannophila pseudospretella*. The sub-family *Chimabachinae* contains only three British species, two out in early spring and one in late autumn. The males are of medium to large size but the females have abbreviated wings and are incapable of flight. The larvae feed in spun leaves. Members of the third sub-family *Depressariinae* are of medium to large size and are of characteristic shape with rounded termen and flattened abdomen. They appear in late summer and autumn and hibernate in thatch, haystacks etc., the moths being often seen at lighted windows in the spring. The larvae of many of the species feed on *Umbelliferae*. Of the 90 British species of *Oecophoridae* 40 have been recorded in Staffordshire.

## Oecophorinae

- 634 ***Schiffmuelleria grandis* Desvignes** Needwood Forest (J. Sang, Ent.Mon.Mag XX 41, 1883). Never found again and presumably extinct.
- 635 ***Schiffmuelleria subaquilea* Stainton** Ashenhurst, 1945; Leek Moors, 1983 (RGW).
- 636 ***Schiffmuelleria similella* Hübner** Cannock Chase (CGB); Rugeley (RF) VCH. Swynnerton, Trentham (RGW). One found in City Museum, Hanley 1980, probably brought with pine log, in bark of which the larvae feed.
- 637 ***Schiffmuelleria tinctella* Hübner** Madeley (HWD). Trentham (RGW).
- 642 ***Batia unitella* Hübner** Madeley (HWD).
- 644 ***Borkhausenia fuscescens* Haworth** Burton (EB) VCH. Common (HWD, RGW).
- 645 ***Borkhausenia minutella* Linnaeus** Henhurst (EB); Rugeley (RF) VCH. NRR.
- 646 ***Telechrysis tripuncta* Haworth** Madeley (HWD); Allimore Green (RGW).

- 647 ***Hofmannophila pseudospretella* Stainton** Burton (EB); Tixall (EDB); Rugeley, very common (RF) VCH. A destructive and much too abundant pest in houses and outbuildings (HWD, RGW).
- 648 ***Endrosis sarcitrella* Linnaeus** Tixall (EDB); Rugeley, very common (RF). Common in buildings and sometimes outside, probably from old birds nests (HWD, RGW).
- 649 ***Esperia sulphurella* Fabricius** Burton, common (EB); Cannock Chase, Stafford, everywhere (CGB); Rugeley, common (RF) VCH. Common generally (HWD, RGW).
- 652 ***Alabonia geoffrella* Linnaeus** Burton (EB); Rugeley (RF) VCH. Madeley (HWD). Loynton Moss, 1979 (RGW).
- 654 ***Pleurota bicostella* Clerck** Cannock Chase, common (CGB); Chartley Moss (RCB); Rugeley, very common (RF). Very common on ling (HWD). Locally common on *Erica* (RGW).
- 658 ***Carcina quercana* Fabricius** Burton; Cannock Chase (EDB); Rugeley, very common (RF) VCH. Madeley, common (HWD). Widespread and common on oak (RGW).
- 659 ***Amphisbatis incongruella* Stainton** Cannock Chase (HWD). Downs Banks, Swynnerton; local and scarce, flying in sunshine over heather in mid-April (RGW).
- 661 ***Pseudatemalia flavifrontella* Denis & Schiffermüller** Maer Woods (HWD). Burnt Wood, Swynnerton (RGW).

### Chimabachinae

- 663 ***Diurnea fagella* Denis & Schiffermüller** Burton, common (EB); Rugeley, very common (RF); probably common everywhere (EDB) VCH. Very common generally (HWD, RGW).
- 664 ***Diurnea phryganella* Hübner** Rugeley, common (RF) VCH. Fairly common, Madeley (HWD). Common in woods (RGW).

### Depressariinae

- 666 ***Semioscopis avellanella* Hübner** Hopwas Wood (WGB); Rugeley (RF) VCH. Burnt Wood, Maer Woods, Madeley, Swynnerton, Cannock Chase (HWD). Churnet Valley, Needwood Forest, locally common in woods (RGW). Kinver Edge (FAN).
- 667 ***Semioscopis steinkellneriana* Denis & Schiffermüller** Henhurst (EH); Rugeley (RF) VCH. Cheddleton, 1918 (Hill); Eccleshall, 1983 (GM). Local and rare.
- 671 ***Depressaria ultimella* Stainton** Madeley (HWD). Eccleshall (RGW).
- 672 ***Depressaria pastinacella* Duponchel** Burton (EB); Rugeley, common (RF) VCH. Abundant on *Heracleum* (HWD, RGW).
- 674 ***Depressaria badella* Hübner** Leek (Hill). Trentham, Wetley Moor, Coombes Valley, local and scarce (RGW).
- 676 ***Depressaria pulcherrimella* Stainton** Madeley, Morridge (HWD). Trentham, Coombes Valley, Roches, locally common on *Chenopodium* (RGW).
- 687 ***Exaeretia allisella* Stainton** Trentham, 1959 (RGW); Blythe Bridge Mill (JAH).
- 688 ***Agonopterix heracliiana* Linnaeus** Burton, common (EB); Rugeley (RF) VCH. Very common generally (HWD, RGW).
- 689 ***Agonopterix ciliella* Stainton** Henhurst, plentiful (EB) VCH. NRR.
- 691 ***Agonopterix purpurea* Haworth** Henhurst (EB) VCH. NRR.
- 692 ***Agonopterix subpropinquella* Stainton** Trentham, 1950/51 (RGW).
- 695 ***Agonopterix alstromeriana* Clerck** Henhurst (EB) VCH. Dovedale, larvae common on hemlock (HWD). Trentham; Tamworth (RGW).
- 696 ***Agonopterix propinquella* Treitschke** Henhurst, common (EB); Rugeley (RF) VCH. Madeley (HWD). Trentham, Needwood Forest (RGW).
- 697 ***Agonopterix arenella* Denis & Schiffermüller** Henhurst, common (EB) VCH. Leek (Hill). Madeley, Manifold Valley (HWD). Swynnerton, Trentham, Alvecote, common (RGW).
- 698 ***Agonopterix kaekeritziana* Linnaeus** Burton (EB) VCH. Madeley, Swynnerton, Trentham (HWD). Coombes Valley, common; Ipstones Edge (RGW).
- 701 ***Agonopterix ocellana* Fabricius** Henhurst (EB) VCH. Madeley (HWD). Bishops Offley, Swynnerton, on *Salix* (RGW).
- 702 ***Agonopterix assimilella* Treitschke** Rugeley (RF) VCH. Madeley (HWD). Trentham, Churnet Valley, larvae in stems of broom (RGW).
- 705 ***Agonopterix ulicetella* Stainton** Cannock Chase (HWD).
- 706 ***Agonopterix nervosa* Haworth** Burton (EB); Rugeley (RF) VCH. Very common on gorse, also as a variety on *Genista tinctoria* at Madeley (HWD). Generally common on gorse (RGW).

- 709 ***Agonopterix liturosa* Haworth** The Oaks, Burton (EB) VCH. Madeley, Dovedale (HWD). Chartley (RGW). On *Hypericum*.
- 710 ***Agonopterix conterminella* Zeller** Madeley (HWD). Downs Banks, Trentham, Chartley Moss, on *Salix* (RGW).
- 713 ***Agonopterix angelicella* Hübner** Henhurst (EB) VCH. Madeley (HWD). Burnt Wood, Waltons Wood, Moddershall, Coombes Valley, locally common on *Angelica*.

### Ethmiinae

A small sub-family of six British species, two believed extinct, of which the sole Staffordshire example is *Ethmia funerella*, a striking black and white moth.

- 719 ***Ethmia funerella* Fabricius** Consall, 1921 (Hill). Dovedale, probably on *Myosotis* (HWD). The food-plant is usually given as *Symphytum* but the moth occurs in several places along the Churnet Valley and also in Castern Wood where there is no *Symphytum* and the larvae have been found on *Myosotis* (RGW).

### Gelechiidae

A very large family of small to medium-sized moths. Few are brightly coloured and the markings are often obscure, making identification difficult. The hindwings are broad in comparison with the forewings and have a characteristically produced apex, like a pointing finger. Of the 161 British species, only 59 have been recorded in Staffordshire.

- 726 ***Metzneria metzneriella* Stainton** Madeley (HWD). Burnt Wood, Trentham, Allimore Green, Churnet Valley, locally common on *Centaurea*.
- 728 ***Paltodora cytisella* Curtis** Madeley, Hawksmoor (HWD). Trentham, Oakamoor, common on bracken (RGW).
- 731 ***Eulamprotes atrella* Denis & Schiffermüller** Burton (EB) VCH. Madeley CHWD). Burnt Wood (HLB).
- 735 ***Monochroa tenebrella* Hübner** Burton (EB) VCH. Madeley, Upper Hulme, Hawksmoor (HWD). Burnt Wood, Trentham, common on *Rumex acetosella*.
- 736 ***Monochroa lucidella* Stephens** Burton (EB) VCH. Madeley (HWD).
- 747 ***Chrysoesthia sexguttella* Thunberg** Cannock Chase (CGB); Rugeley (RF) VCH. Madeley (HWD). Wilnecote (Arnold), 1965.
- 752 ***Aristotelia ericinella* Zeller** Tixall (EDB). Maer Woods, Whitmore Common, Cannock Chase (HWD). Burnt Wood, Chorlton Moss, Chartley Moss, locally common on heaths and mosses (RGW).
- 755 ***Stenolechia gemmella* Linnaeus** Burnt Wood (HLB). Downs Banks, Maer Woods, Swynnerton, Trentham, Needwood Forest, on oak, local and scarce (RGW).
- 760 ***Exoteleia dodecella* Linnaeus** Burnt Wood, Maer Woods, Madeley, Swynnerton, Churnet Valley (HWD). Chartley Moss (RGW). On pine.
- 762 ***Athrips mouffetella* Linnaeus** Burton (EB) VCH. Burnt Wood, Madeley (HWD). Trentham, Coombes Valley, local on honeysuckle (RGW).
- 763 ***Xenolechia aethiops* Humphreys & Westwood** Cannock Chase (HWD). Wetley Moor (RGW). Rare.
- 764 ***Pseudotelphusa scalella* Scopoli** Burnt Wood (WM, HWD, HLB, RGW). Maer Woods, Trentham, Cannock Chase, in oak woods, local and scarce (RGW).
- 765 ***Teleiodes vulgella* Hübner** Burton (EB) VCH. Madeley (HWD). Fair oak, The Cloud, Cannock Chase (RGW).
- 768 ***Teleiodes notatella* Hübner** Burton (EB) VCH. Madeley (HWD). Burnt Wood, Cannock Chase, local on *Salix* (RGW).
- 770 ***Teleiodes proximella* Hübner** Cannock Chase (CGB); Rugeley, very common (RF) VCH. Very common generally on birch (RGW).
- 771 ***Teleiodes alburnella* Zeller** First record Downs Banks, 1966; Maer Woods, Trentham, Cannock Chase, now locally common on birch (RGW).
- 772 ***Teleiodes fugitivella* Zeller** Burton (EB) VCH. Madeley, Dovedale (HWD). Rather common generally (RGW).
- 773 ***Teleiodes paripunctella* Thunberg** Rugeley (RF) VCH. Burnt Wood (WM, HLB, RGW); Swynnerton (HWD). Rare, not seen recently.
- 774 ***Teleiodes luculella* Hübner** Cannock Chase (CGB); Hopwas Wood (CJW) VCH. Burnt Wood, Madeley, Swynnerton (HWD). Trentham, Ashenhurst, Coombes Valley, local and uncommon (RGW).

- 775 ***Teleiodes sequax* Haworth** Dovedale, Manifold Valley (HWD, RGW). Locally common on *Helianthemum*.
- 776 ***Teleiopsis diffinis* Haworth** Cannock Chase (CGB) VCH. Madeley (HWD). Downs Banks, Trentham, Coombes Valley (RGW).
- 779 ***Bryotropha affinis* Haworth** Burton (EB) VCH. Madeley, Swynnerton (HWD). Rather common generally (RGW).
- 780 ***Bryotropha similis* Stainton** Madeley, Swynnerton, Cannock Chase, Dovedale, Manifold Valley (HWD). Rather common generally (RGW).
- 781 ***Bryotropha mundella* Douglas** Swynnerton (HWD).
- 782 ***Bryotropha senectella* Zeller** Burton (EB) VCH. Burnt Wood, Swynnerton, Cannock Chase (HWD). Rather common generally (RGW).
- 787 ***Bryotropha terrella* Denis & Schiffermüller** Burton, common (EB); Cannock Chase (CGB); Rugeley (RF) VCH. Madeley (HWD). Very common generally (RGW).
- 788 ***Bryotropha politella* Stainton** Cannock Chase (CGB) VCH. Morridge, Dovedale (HWD). Cauldon Low, Castern Wood (RGW).
- 789 ***Bryotropha domestica* Haworth** Burton (EB) VCH.
- 792 ***Mirificarma mulinella* Zeller** Madeley (HWD). Downs Ranks, Trentham, Coombes Valley, common on gorse.
- 793 ***Mirificarama lentiginosella* Zeller** Madeley (HWD). The only record.
- 794 ***Lita sexpunctella* Fabricius** Cannock Chase, common (CGB); Rugeley (RF) VCH. Maer Woods, Cannock Chase, Chartley Moss (HWD). Burnt Wood (WM, HWD, RGW); Swynnerton, Ipstones Edge, The Cloud, local on moors, less common than formerly and no longer at Burnt Wood (RGW).
- 796 ***Aroga velocella* Zeller** Cannock Chase (CGB) VCH. NRR.
- 797 ***Neofaculta ericetella* Geyer** Cannock Chase, swarming (CGB); Rugeley, very common (RF) VCH. Very common everywhere on ling (HWD, RGW).
- 800 ***Gelechia rhombella* Denis & Schiffermüller** Rugeley (RF) VCH. Madeley (HWD). Trentham (RGW). On apple, uncommon.
- 802a ***Gelechia sororculella* Hübner** Burton (EB) VCH. Madeley (HWD). Balterley Heath, Downs Banks, Trentham, local on willow (RGW).
- 809 ***Pexicopia malvella* Hübner** Burton (EB) VCH. NRR.
- 818 ***Scrobipalpa atriplicella* Fischer von Röslerstamm** Burton (EB) VCH. Alvecote, 1979 (Arnold).
- 819 ***Scrobipalpa costella* Humph. & Westw.** Maer Woods, Madeley (HWD). Balterley Heath, Chillington, Trentham, Shugborough, on *Solanum dulcamara* (RGW).
- 820 ***Scrobipalpa artemisiella* Treitschke** Burton (EB) VCH. Manifold Valley (HWD). Dovedale (RGW).
- 828 ***Caryocolum viscariella* Stainton** Stapenhill VCH. NRR.
- 830 ***Caryocolum fraternella* Douglas** Burton (EB) VCH. Madeley (HWD). Downs Banks, Trentham, local and scarce (RGW).
- 831 ***Caryocolum proximum* Haworth** Burton VCH. NRR.
- 832 ***Caryocolum blandella* Douglas** Burton (EB) VCH. Madeley (HWD). Swynnerton (RGW).
- 834 ***Caryocolum tricolorella* Haworth** Tatenhill, common VCH. Needwood Forest, one, 1954 (RGW).
- 837 ***Caryocolum huebneri* Haworth** Burton (EB); Hopwas Wood (J. Sang) VCH. Madeley (HWD). Bagots Wood, 1971 (RGW).
- 840 ***Reuttia subocellea* Stephens** Burton (EB) VCH. Dovedale (HWD).
- 841 ***Sophronia semicostella* Hübner** Maer Woods, Cannock Chase, Dovedale (HWD). Burnt Wood, Loynton Moss, Downs Banks, Trentham, Wall Grange, in grassy places, local (RGW).
- 843 ***Aproaerema anthyllidella* Hübner** Burton (EB) VCH. Trentham, 1968 (RGW).
- 844 ***Synopacma larseniella* Gozmany** One, Loynton Moss, 1955 (RGW).
- 849 ***Synopacma cinctella* Clerck** Burton (EB) VCH. (One on canal bank near Congleton, 1947 (RGW)).
- 853 ***Anacampsis populella* Clerck** Rather common, Burnt Wood, Madeley (HWD). Generally common on poplar and willow (RGW).
- 854 ***Anacampsis blattariella* Hübner** Bagots Wood, 1972; Chorlton Moss, Caverswall, Hawksmoor; locally common on birch, previously not distinguished from *A. populella*.
- 855 ***Acompsia cinerella* Clerck** Burton (EB) VCH. Dovedale (HWD). Loynton Moss (RGW) Local and uncommon in dry grassy places.
- 856 ***Anarsia spartiella* Schrank** Railway cuttings VCH. Madeley (HWD). Not found recently.
- 858 ***Hypatima rhomboidella* Linnaeus** Henhurst (EB); Rugeley (RF) VCH. Madeley (HWD). Common in woods (RGW).

- 859 *Psoricoptera gibbosella* Zeller One, Burnt Wood, 1937 (RGW). The only record.  
 866 *Brachmia blandella* Fabricius Burnt Wood, 1968; Trentham (RGW).  
 868 *Brachmia rufescens* Haworth Burton (EB) VCH. Madeley (HWD); Blythe Bridge Mill (JAH); Cannock Chase, Uttoxeter (RGW).  
 870 *Oegoconia quadripuncta* Haworth One, Tipton, 15/8/1986 (AJW).

## Momphidae

Small to medium-sized moths, some brilliantly coloured and including some of the most beautiful of the microlepidoptera. The narrow lanceolate hindwings distinguish them from the *Gelechiidae*.

- 878 *Batrachedra praeangusta* Haworth Burton VCH. Madeley, Armitage (HWD). Trentham, Hardiwick Heath, Cannock Chase, not uncommon among willows (RGW).  
 879 *Batrachedra pinicolella* Zeller Oakamoor, 1949 (RGW); Burnt Wood.  
 881 *Mompha terminella* Humphrey & Westwood Rosliston Road, Burton VCH. Madeley (HWD).  
 882 *Mompha locupletella* Denis & Schiffermüller Cannock Chase (CJW) VCH. Madeley (HWD). Downs Banks, Cannock Chase, Alton (RGW).  
 883 *Mompha raschkiella* Zeller Madeley, Cannock Chase (HWD). Widespread and common, leaf mines on *Chamerion angustifolium* (RGW).  
 884 *Mompha miscella* Denis & Schiffermüller Manifold Valley, Dovedale (HWD, RGW). On *Helianthemum*.  
 885 *Mompha conturbatella* Hübner Madeley (HWD, RGW). Not uncommon generally on *Chamerion angustifolium*.  
 886 *Mompha ochraceella* Curtis Madeley (HWD). Trentham (RGW). On *Epilobium hirsutum*.  
 887 *Mompha lacteella* Stephens Dovedale (HWD).  
 888 *Mompha propinquella* Stainton Burton (EB) VCH. Madeley, Dovedale (HWD). Loynton Moss, Burnt Wood, Trentham, Oakamoor, not uncommon on *Epilobium hirsutum*.  
 889 *Mompha divisella* Herrich-Schäffer Burton (EB) VCH. NRR.  
 892 *Mompha subbistrigella* Haworth Wall Grange, Trentham, hibernating in houses (RGW).  
 893 *Mompha epilobiella* Denis & Schiffermüller Burton (EB) VCH. Madeley (H1D). Rather common on *Epilobium hirsutum*. (RGW).

## Cosmopteridae

- 898 *Limnaecia phragmitella* Stainton Madeley, Cannock Chase (HWD). Loynton Moss, Trentham, Oakamoor, probably in most places on *Typha* (RGW).  
 899 *Panacalia leuwenhoekella* Stephens Dovedale, common on *Viola hirta* (HWD).  
 904 *Spuleria flavicaput* Haworth Burton (EB) VCH. Madeley (HWD). Craddocks Moss, Barlaston, local and scarce (RGW).  
 905 *Blastodacna hellerella* Duponchel Burton (EB); Rugeley (RF) VCH. Madeley (HWD). Generally common on hawthorn (RGW).  
 906 *Blastodacna atra* Haworth Burton VCH. Madeley, 1950 (HWD).

## Scythrididae

Only one example of the twelve British species of this family occurs in Staffordshire.

- 911 *Scythris grandipennis* Haworth Cannock Chase (HWD).

## Tortricidae

The largest family of the micro-lepidoptera, divided into four subfamilies, three of which are represented in Staffordshire. Mostly medium-sized moths, many with yellow or orange forewings with dark or metallic markings. 20 of the 48 British species have been recorded in Staffordshire.

## Cochylinae

- 923 *Trachysmia sodaliana* Haworth Dovedale, 1984 (MJS).  
 924 *Hysterophora maculosana* Haworth Rather common in woods among *Hyacinthoides non-scripta* (HWD, RGW).

- 925 ***Phtheochroa rugosana* Hübner** Burton (EB); one, Handsworth (CJW) VCH. Armitage (C.E. Stott, In coll. HWD). One, Dosthill, Tamworth, 1984 (P.B. Darch). Restricted to the southern part of Staffordshire in which its food plant, *Bryonia*, grows.
- 930 ***Piercea alismana* Ragonot** Madeley (HWD).
- 936 ***Cochylimorpha straminea* Haworth** Madeley on thistles (TWD); Rugeley (RF) VCH. Madeley, Manifold Valley, Dovedale (HWD). Trentham, Wetley Moor, Coombes Valley, local on *Centaurea nigra* (RGW).
- 937 ***Agapeta hamana* Linnaeus** The Oaks (EB); Burton; Rugeley (RF); North Staffs. (TWD) VCH. Madeley (HWD). Trentham (RGW) Widespread and common on thistles.
- 938 ***Agapeta zoegana* Linnaeus** Burton; Sinai Park; common, Rugeley (RF); North Staffs. (TWD) VCH. Madeley (HWD); Whiston Eaves (HWD). Trentham, Cheddleton; old railway line near Chartley Moss; more local than the last species (RGW).
- 939 ***Aethes tessera* Denis & Schiffermüller** North Staffs. (TWD) VCH. Manifold Valley, one (HWD).
- 941 ***Aethes hartmanniana* Clerck** Craddock's Moss (TWD) VCH. Dovedale (HWD). Manifold Valley (RGW). On *Scabiosa columbaria*. VCH. Entry no doubt refers to the following species.
- 942 ***Aethes piercei* Obratzsov** Madeley, Whiston Eaves (HWD). Consall (RGW). On *Succisa*, local and scarce.
- 945 ***Aethes cnicana* Westwood** The Oaks; Burton (EB); Colwich (CGB); Cannock (CGB) VCH. Madeley, Cannock Chase (HWD). Downs Banks, Trentham, Churnet Valley, locally common on thistles (RGW).
- 946 ***Aethes rubigana* Treitschke** The Oaks; Burton (EB); North Staffs (TWD) VCH. Hawksmoor (HWD). Loynton Moss, Madeley (RGW). On *Arctium*.
- 947 ***Aethes smeathmanniana* Fabricius** Trentham, Coombes Valley (RGW). Tamworth (Arnold).
- 954 ***Eupoecilia angustana* Hübner** The Oaks; Burton (EB); abundant on all heaths (TWD); Cannock (RCB); Rugeley (RF) VCH. Swynnerton, Cannock Chase, Whiston Eaves (HWD). Trentham, Wetley Moor (RGW) The heathland form is *f. fasciella*.
- 959 ***Cochylidia rupicola* Curtis** Allimore Green (RGW).
- 960 ***Falseuncaria ruficiliana* Haworth** Stanton; Dovedale (HWD).
- 962 ***Cochylis roseana* Haworth** The Oaks; Burton (EB); Shobnall marlpit VCH. NRR.
- 964 ***Cochylis dubitana* Hübner** Rugeley (RF). Burnt Wood, Trentham, Marchington, Alvecote (RGW).
- 965 ***Cochylis hybridella* Hübner** The Oaks; Burton (EB); on heaths (TWD) VCH. NRR.
- 968 ***Cochylis nana* Haworth** The Oaks; Burton (EB); abundant, Cannock Chase (CGB); very common, Rugeley (RF) VCH. Swynnerton, Whitmore Common (HWD). Burnt Wood, Trentham, Churnet Valley, widespread and common on birch (RGW).

## Tortricinae

Mostly medium-sized to large moths, relatively broad-winged with markings consisting of a basal patch, an oblique central fascia and an apical patch darker than the ground colour, though some species are unicolorous. The larvae feed principally in spun leaves, twisting them, and this is the origin of the name 'Tortrix'. Of the 95 British species, 60 have been recorded in Staffordshire.

- 969 ***Pandemis corylana* Fabricius** Henhurst (EB); Burton; Swynnerton Old Park (TD); common, Rugeley (RF) VCH. Common generally (HWD, RGW).
- 970 ***Pandemis cerasana* Hübner** Burton, common (EB); very common, Rugeley (RF); North Staffs. (TWD) VCH. Common generally (HWD, RGW).
- 971 ***Pandemis cinnamomeana* Treitschke** Maer Woods, plentiful (TWD) VCH. Burnt Wood, Madeley, Swynnerton (HWD). Locally common in woods (RGW).
- 972 ***Pandemis heparana* Denis & Schiffermüller** North Staffs (TWD); very common, Rugeley (RF) VCH. Common generally (HWD, RGW).
- 974 ***Argyrotaenia ljugiana* Thunberg** Whiston Eaves (HWD). Cannock Chase, The Cloud, Leek moors, Ipstones Edge, locally common (RGW).
- 976 ***Archips oporana* Linnaeus** Chorlton Moss (TWD) VCH. NRR.
- 977 ***Archips podana* Scopoli** Burton, common (EB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Very common, black form frequent Madeley (HWD). Widespread and common (RGW).
- 979 ***Archips crataegana* Hübner** Hem Heath, Trentham, 1976 (RGW).
- 980 ***Archips xylosteana* Linnaeus** Burton (ER); North Staffs. (TWD); Rugeley, (RF) VCH. Rather common, Madeley (HWD). Widespread and locally common (RGW).
- 981 ***Archips rosana* Linnaeus** Burton, common (EB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Madeley, rather common (HWD). Eccleshall, The Cloud, Dovedale, locally common (RGW).

- 983 ***Choristoneura hebenstreitella* Müller** The Oaks (EB); Burton; North Staffs.(TWD); Rugeley, common (RF) VCH. Rather common, Burnt Wood, Madeley (HWD). Swynnerton, Trentham, now scarce (RGW).
- 986 ***Syndemis musculana* Hübner** Burton (EB); Cannock Chase (CGB, WGB); North Staffs. (TWD); Rugeley, common (RF) VCH. Common generally (HWD, RGW).
- 987 ***Ptycholomoides aeriferanus* Herrich-Schäffer** Burnt Wood, 1983 (DWE).
- 988 ***Aphelia viburnana* Denis & Schiffermüller** Burton, rare (EB); Cannock Chase (CGB); Rugeley, common (RF) VCH. Abundant amongst ling and bilberry (HWD). Chiefly on moors, but also Dovedale so must have other food plants (RGW).
- 989 ***Aphelia paleana* Hübner** Burton, rare (EB); North Staffs.(TWD) VCH. Madeley, Whiston Eaves, Morridge, Manifold Valley (HWD). Leek (Hill). Forton (ESL). Trentham, Churnet Valley, locally common in grassy places (RGW).
- 990 ***Aphelia unitana* Hübner** Manifold Valley, Dovedale (RGW). Appears to be restricted to the limestone, where it occurs along with *A. paleana*. Bred from Angelica at Dovedale, 1964.
- 991 ***Clepsis senecionana* Hübner** Cannock Chase (CGB) VCH. Loynton Moss, Downs Banks, Cannock Chase, local in boggy places (RGW).
- 993 ***Clepsis spectrana* Treitschke** Henhurst (ER); Rugeley, very common (RF) VCH. Rather common in marshy places (HWD, RGW).
- 994 ***Clepsis consimilana* Hübner** Burton, common (ER); Rugeley, very common (RF) VCH. Common generally (HWD, RGW). Often on garden privet.
- 1000 ***Ptycholoma lecheana* Linnaeus** Cannock Chase (CGB, RCB); Hopwas Wood (WGB); North Staffs.(TWD); Rugeley (RF). Rather common generally (HWD, RGW).
- 1001 ***Lozotaeniodes formosanus* Geyer** One at light, Scot Hay, 1981 (G. Burgess); one, Ashley Heath, 1985 (IOJ).
- 1002 ***Lozotaenia forsterana* Fabricius** Burton, common (ER); North Staffs. (TWD); Rugeley, very common (RF) VCH. Madeley, common (HWD). Widespread and common (RGW).
- 1006 ***Epagoge grotiana* Fabricius** Cannock Chase (HCH); Forton (ESL); Loynton Moss, Allimore Green, Chorlton Moss, Swynnerton, local and scarce (RGW).
- 1007 ***Capua vulgana* Frölich** Cannock Chase (CGB); North Staffs. (TWD); Rugeley (RF) VCH. Rather common, Madeley (HWD); widespread and common in woods (RGW).
- 1008 ***Philedone gerningana* Denis & Schiffermüller** Chorlton Moss (TWD) VCH. Cannock Chase, Swynnerton, Whiston Eaves, Morridge (HWD). Chorlton Moss, Fair oak, Stockton Brook, Coombes Valley, Wetley Moor, c.1933, not seen recently in any of these places but still occurs on Leek moors (RGW).
- 1009 ***Philedonides lunana* Thunberg** Chorlton Moss (TWD) VCH. Roches (HWD, RGW). The Cloud, Ipstones Edge, Leek Moors, locally common (HGW).
- 1010 ***Ditula angustiorana* Haworth** Burton, common (EB); North Staffs. (TWD); Rugeley (RF) VCH. Madeley and probably common everywhere (HWD). Generally common (RGW).
- 1011 ***Pseudargyrotoza conwagana* Fabricius** Burton, common (EB); North Staffs. (TWD); Rugeley, common (RF) VCH. Very common (HWD, RGW).
- 1015 ***Eulia ministrana* Linnaeus** Cannock Chase (COB, HF); North Staffs.(TWD); var. *ferrugana* Burton VCH. Common generally, both forms (HWD, RGW).
- 1016 ***Cnephasia longana* Haworth** North Staffs. (TWD) VCH. Madeley (HWD). Leek, Wetley Moor (RGW).
- 1019 ***Cnephasia conspersana* Douglas** Leek (Hill). Madeley (HWD). Wetley Moor, The Cloud, Coombes Valley, Dovedale, locally common (RGW).
- 1020 ***Cnephasia stephensiana* Doubleday** Rugeley (RF) VCH. Madeley (HWD). Widespread and rather common (RGW).
- 1021 ***Cnephasia asseclana* Denis & Schiffermüller** Burton, common (EB); North Staffs. (TWD); Rugeley, common (RF) VCH. Madeley, common (HWD). Widespread and common (RGW).
- 1022 ***Cnephasia pasiuana* Hübner** Tixall (EDB); Rugeley (RF) VCH. Not seen in Staffs. (HWD). Allimore Green, 1968 (RGW).
- 1024 ***Cnephasia incertana* Treitschke** Burton, common (EB); North Staffs. (TWD) VCH. Very common generally (RGW).
- 1025 ***Tortricodes alternella* Denis & Schiffermüller** Henhurst (EB); North Staffs. (TWD) VCH. Common generally on oak (HWD, RGW).
- 1026 ***Exapate congelatella* Clerck** Madeley; common in Burnt Wood (HWD). Maer Woods, 1933; sometimes common on moors, The Cloud, Leek moors, Oakamoor, Ipstones Edge; no longer at Burnt Wood; one at light, Trentham, 1974 (RGW).

- 1027 ***Neosphaleroptera nubilana* Hübner** Burton, common (EB); Rugeley, common (RF) VCH. Madeley, abundant where it occurs but exceedingly local (HWD). Gnosall, Allimore Green, Trentham, Needwood Forest (RGW).
- 1029 ***Eana osseana* Scopoli** Burton; North Staffs. (TWD); Rugeley (RF) VCH. Common in dry grassy places (HWD). Locally common, especially on moors (RGW).
- 1030 ***Eana incanana* Stephens** Burnt Wood, Madeley, Churnet Valley (HWD). Swynnerton, Needwood Forest, local and scarce (RGW).
- 1032 ***Aleimma loeflingiana* Linnaeus** Henhurst (EB); Burton; North Staffs. (TWD) VCH. Madeley (HWD). Not seen in Staffs. (RGW).
- 1033 ***Tortrix viridana* Linnaeus** Everywhere very common (EDB); Burton (EB); Dydon Wood (FJ); Rugeley (RF); North Staffs. (TWD) VCH. Abundant everywhere on oak (RGW).
- 1035 ***Croesia bergmanniana* Linnaeus** Burton, common (EB); North Staffs. (TWD); Rugeley, common (RF) VCH. Very common (HWD). Generally common in hedgerows on wild rose (HGW).
- 1036 ***Croesia forsskaleana* Linnaeus** Burton, common (EB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Common (HWD). Widespread and common on maple and sycamore (RGW).
- 1037 ***Croesia holmiana* Linnaeus** Henhurst (EB); Burton; North Staffs. (TWD); Rugeley, common (RF) VCH. Madeley, Dovedale (HWD). Stableford, Meaford, Needwood Forest, in hedgerows, uncommon (RGW).
- 1038 ***Acleris laterana* Fabricius** Burton, common (EB) VCH. Burnt Wood, Craddocks Moss, Madeley, Manifold Valley, common (HWD). Generally common (RGW).
- 1039 ***Acleris comariana* Lienig & Zeller** Madeley (HWD); Loynton Moss, Balterley Heath, Downs Banks, Churnet Valley (HGW); locally abundant on *Comarum palustre*.
- 1040 ***Acleris caledoniana* Stephens** Maer Woods, Goldsitch Moss, Morridge (HWD). Wetley Moor, The Cloud, Ipstones Edge, locally common on moors (RGW).
- 1041 ***Acleris sparsana* Denis & Schiffermüller** Rugeley (RF) VCH. Madeley (HWD). Widespread and common on beech and sycamore (RGW).
- 1042 ***Acleris rhombana* Denis & Schiffermüller** Burton, common (EB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Very common generally (HWD, RGW).
- 1043 ***Acleris aspersana* Hübner** North Staffs. (TWD) VCH. Madeley, Cannock Chase, Manifold Valley, Dovedale (HWD). Downs Banks, Coombes Valley, Ipstones Edge, locally common (RGW).
- 1045 ***Acleris notana* Donovan** Burton (EB); North Staffs. (TWD); Rugeley (RF) VCH. Common (HWD). Widespread and common on birch (RGW).
- 1047 ***Acleris schalleriana* Linnaeus** Dovedale, on *Virburnum opulus* (HWD).
- 1048 ***Acleris variegana* Denis & Schiffermüller** Burton (EB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Very common in many forms (HWD, RGW).
- 1053 ***Acleris hastiana* Linnaeus** Madeley, Whiston Eaves (HWD). Swallow Moss (RGW). Local, on *Salix*.
- 1055 ***Acleris hyemana* Haworth** Maer Woods, in heather (TWD) VCH. Burnt Wood, Cannock Chase, Coombes Valley (RGW).
- 1061 ***Acleris literana* Linnaeus** Burton, rare (EB); Madeley, Swynnerton (TWD) VCH. Burnt Wood (HWD, E.G. Warren); Forton (ESL); Handsworth Wood, one at light, 1982 (R. & A.N.).
- 1062 ***Acleris emargana* Fabricius** Henhurst, common (EB); Burton VCH. Rather common (HWD). Widespread and common on *Salix* (RGW).

### Chlidanotinae

- 1013 ***Olindia schumacherana* Fabricius** Madeley (HWD); Burnt Wood (HLB); Churnet Valley, Hamps Valley, Dovedale, Needwood Forest, local and uncommon (RGW).
- 1014 ***Isotrias rectifasciana* Haworth** Burton, common (EB); Stafford (CGB); North Staffs. (TWD); Rugeley, common (RF) VCH. Rather common (HWD, RGW).

### Olethreutinae

A large and variable sub-family. Some are similar in markings to the *Tortricinae*, but often the central fascia is lacking and there is an ocellus, a circular mark near the termen enclosing black or metallic dashes. Of the 232 British species 122 have been recorded in Staffordshire.

- 1063 ***Celypha striana* Denis & Schiffermüller** Burton, rare (EB); North Staffs. (TWD) VCH. Madeley (HWD). Coombes Valley, Needwood Forest (RGW); Wednesfield (AJW).
- 1068 ***Olethreutes rivulana* Scopoli** Burton (EB); Cannock Chase (WGB) Madeley, Cannock Chase (HWD). Allimore Green, Trentham, Needwood Forest, locally common (RGW).



- 1070 ***Olethreutes mygindiana* Denis & Schiffermüller** Maer Woods, Swynnerton, Cannock Chase (HWD). Caverswall, The Cloud, Leek moors, Ipstones Edge, locally common on *Vaccinium vitis-idaea*.
- 1073 ***Olethreutes schulziana* Fabricius** Craddocks Moss, Chartley Moss (RCB) VCH. Craddocks Moss, Morridge (HWD). Fair oak, 1933, since extinct; Balterley Heath, Chartley Moss, Goldsitch Moss, Swallow Moss (RGW).
- 1075 ***Olethreutes olivana* Treitschke** Downs Banks, 1947, common in a restricted area, becoming scarce and now probably extinct (RGW).
- 1076 ***Olethreutes lacunana* Denis & Schiffermüller** Burton, very common (EB); Cannock Chase (CGB); North Staffs. (TWD) VCH. Very common generally (HWD, RGW).
- 1079 ***Olethreutes bifasciana* Haworth** One beaten from Scotch fir, Cannock Chase (W.S. Atkinson) VCH. Chartley Moss (RGW).
- 1080 ***Olethreutes arcuella* Clerck** Cannock Chase, abundant (W.S. Atkinson); North Staffs. (TWD) VCH. Maer Woods, Cannock Chase (HWD). Abundant at Maer Woods, 1937; single examples at Swynnerton and Trentham; not seen recently in any of these places (RGW).
- 1082 ***Hedya pruniana* Hübner** Burton (EB); North Staffs. (TWD) VCH. Common on blackthorn (HWD, RGW).
- 1083 ***Hedya dimidioalba* Retzius** Burton (EB); Rugeley, very common (RF) VCH. Very common on *Rosaceae* (HWD, RGW).
- 1084 ***Hedya ochroleucana* Frölich** Tixall (EDB); Rugeley, common (RF) VCH. Madeley (HWD). Eccleshall (GM); Allimore Green, Blore, local, in hedgerows (RGW).
- 1085 ***Hedya atropunctana* Zetterstedt** Cannock Chase, Morridge (HWD). Maer Woods, 1938, not seen since (RGW).
- 1086 ***Hedya salicella* Linnaeus** Burnt Wood, Madeley (HWD); Balterley Heath, Wheaton Aston, Churnet Valley, local on old willows (RGW).
- 1087 ***Orthotaenia undulana* Denis & Schiffermüller** North Staffs. (TWD) VCH. Common, especially among bilberry in woods (HWD, RGW).
- 1089 ***Apotomis semifasciana* Haworth** Burnt Wood (HLB); Loynton Moss, Forton (ESL).
- 1092 ***Apotomis turbidana* Hübner** North Staffs. (TWD); Rugeley, very common (RF) VCH. Burnt Wood (WM, RGW). Madeley, Swynnerton (HWD). Cannock Chase, Wetley Moor, Churnet Valley, local on birch (RGW).
- 1093 ***Apotomis betuletana* Haworth** Burton (EB); Cannock (CJW); Rugeley, very common (RF) VCH. Burnt Wood, Maer Woods, Madeley, Swynnerton, Cannock Chase (HWD). Generally common on birch (RGW).
- 1094 ***Apotomis capreana* Hübner** Bagots Wood, 1970 (RGW).
- 1095 ***Apotomis sororculana* Zetterstedt** Cannock (WGB); North Staffs. (TWD); Rugeley, common (RF) VCH. Never seen in Staffs. (HWD, RGW).
- 1096 ***Apotomis sauciana* Frölich** Maer Woods (TWD); Cannock Chase (CJW) VCH. Burnt Wood, Swynnerton (HWD). Trentham, Stockton Brook, Churnet Valley, The Cloud, Leek moors, local on bilberry, apparently less common since c.1965 (RGW).
- 1098 ***Endothenia oblongana* Haworth** Burton, rare (EB) VCH. NRR.
- 1102 ***Endothenia nigricostana* Haworth** Burton (EB) VCH. Madeley (HWD). Burnt Wood, Trentham, scarce (RGW).
- 1103 ***Endothenia ericetana* Humphreys & Westwood** Madeley (HWD); Burnt Wood (HLB); Trentham, 1959 (RGW).
- 1104 ***Endothenia quadrimaculana* Haworth** Rugeley (RF) VCH. Trentham (RGW).
- 1106 ***Lobesia reliquana* Hübner** Swynnerton, Burnt Wood (HWD). Not seen at Swynnerton, last at Burnt Wood 1958 (RGW).
- 1109 ***Lobesia littoralis* Humphreys & Westwood** Trentham, on *Armeria* in garden, probably introduced with plants, first noted 1940, still present 1975; single examples also at Cheddleton Heath, Coombes Valley and Burnt Wood.
- 1110 ***Bactra furfurana* Haworth** Madeley, on *Eleocharis* (HWD). Bagots Wood, Rudyard Lake (RGW).
- 1111 ***Bactra lancealana* Hübner** Cannock Chase (CGB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Very common on rushes (HWD, RGW).
- 1115 ***Ancylis achatana* Denis & Schiffermüller** North Staffs. (TWD) VCH. Needwood Forest, 1954; Keele, one at light, 1968; since 1975 more widespread and common, Aqualate, Trentham, Cannock Chase, Rugeley, Oakamoor (RGW).
- 1118 ***Ancylis uncella* Denis & Schiffermüller** Chorlton Moss, Craddocks Moss, Chartley Moss (HWD). Burnt Wood (WM, RGW); Maer Woods, Swynnerton, on birch, local and uncommon (RGW).

- 1119a ***Ancylis diminutana* Haworth** Burton (EB) VCH. NRR.
- 1120 ***Ancylis mitterbacheriana* Denis & Schiffermüller** Burton, common (EB); North Staffs. (TWD) VCH. Burnt Wood, Madeley, Swynnerton (HWD); Trentham, Hawksmoor, Needwood Forest, on oak, less common than formerly (RGW).
- 1123 ***Ancylis laetana* Fabricius** North Staffs.(TWD) VCH. Common on aspen, Burnt Wood (WM, HWD, HLB). Becoming scarce at Burnt Wood and none been since 1956 (RGW).
- 1125 ***Ancylis unculana* Haworth** Burnt Wood (HLB). The only record.
- 1126 ***Ancylis badiana* Denis & Schiffermüller** Burton, common (EB); Stafford (CGB); on trefoil (TWD) VCH. Rather common (HWD). Widespread and common (RGW).
- 1128 ***Ancylis myrtillana* Treitschke** Cannock Chase, Rugeley, abundant (RF, CGB, WGB); Maer Woods, Craddocks Moss, plentiful on bilberry (TWD) VCH. Common on bilberry in woods and on moors (RGW).
- 1129 ***Ancylis apicella* Denis & Schiffermüller** Dovedale (HWD); Craddocks Moss (HWD, RGW). Not seen since 1946.
- 1130 ***Epinotia pygmaeana* Hübner** Maer Woods, Whiston Eaves (HWD). Burnt Wood, Swynnerton, Churnet Valley, Needwood Forest, in spruce plantations (RGW).
- 1132 ***Epinotia subocellana* Donovan** Burton (EB) VCH. Common on willow (HWD, RGW).
- 1133 ***Epinotia bilunana* Haworth** Cannock Chase (CGB); Rugeley, very common (RF); Hopwas Wood (WB) VCH. Common (HWD). In birch catkins.
- 1134 ***Epinotia ramella* Linnaeus** Burton (EB); Hopwas Wood (WGB); Rugeley, common (RF) VCH. Very common (HWD, RGW).
- 1136 ***Epinotia immundana* Fischer von Röslerstamm** Madeley, Cannock Chase, Dovedale (HWD). Locally common on alder (RGW).
- 1137 ***Epinotia tetraquetra* Haworth** Burton (EB); Cannock Chase (CGB, WGB); Rugeley (RF); North Staffs. (TWD) VCH. Very common on birch (HWD, RGW).
- 1138 ***Epinotia nisella* Clerck** Burton (EB) VCH. Common on willow (HWD, RGW).
- 1139 ***Epinotia tenerana* Denis & Schiffermüller** Burton (EB); Cannock (RCB); North Staffs. (TWD) VCH. Very common (HWD, RGW).
- 1142 ***Epinotia tedella* Clerck** Burton, common (EB); Milford (CGB); Maer Woods, abundant on spruce (TWD) VCH. Very common on spruce (HWD, RGW).
- 1143 ***Epinotia fraternana* Haworth** Burnt Wood, in spruce plantations, 1954-58 (RGW).
- 1145 ***Epinotia nanana* Treitschke** Burton (EB); VCH. Swynnerton, Chartley Moss, Hawksmoor (HWD). Burnt Wood, Needwood Forest (RGW).
- 1146 ***Epinotia rubiginosana* Herrich-Schäffer** Burnt Wood, Chartley Moss (HWD). Cannock Chase (RGW). on conifers, uncommon.
- 1147 ***Epinotia cruciana* Linnaeus** Henhurst (EB); North Staffs. (TWD) VCH. Burnt Wood (WM, RGW); Madeley, common (HWD); Churnet Valley, Swallow Moss, locally common on willows (RGW).
- 1148 ***Epinotia mercuriana* Frölich** Morridge (HWD). Very local on Leek Moors (RGW).
- 1150 ***Epinotia abbreviana* Fabricius** Burton, common (EB) VCH. Leek (Hill). Common on elm (HWD, RGW).
- 1151 ***Epinotia trigonella* Linnaeus** North Staffs. (TWD) VCH. Common on birch (HWD, RGW).
- 1152 ***Epinotia maculana* Fabricius** Burnt Wood (HLB, RGW). Swynnerton, Coombes Valley, Needwood Forest, local on poplar and aspen (RGW).
- 1153 ***Epinotia sordidana* Hübner** Madeley, Cannock Chase (HWD). Loynton Moss, Downs Banks, Trentham, Wetley Moor, Churnet Valley, Dovedale, on alder, local (RGW).
- 1155 ***Epinotia brunnichana* Linnaeus** Burton (EB); Rugeley (RF) VCH. Maer Woods, Cannock Chase (HWD). Swynnerton, Trentham, common (RGW).
- 1156 ***Epinotia solandriana* Linnaeus** Henhurst (EB); Madeley, on birch (TWD); Cannock Chase (WGB); Rugeley, very common (RF) VCH. Common in great variety (HWD, RGW).
- 1158 ***Rhopobota ustomaculana* Curtis** Gun Hill, bred from *Vaccinium vitis-idaea*, 1970 (RGW).
- 1159 ***Rhopobota naevana* Hübner** North Staffs. (TWD); Rugeley (RF) VCH. Common generally on holly; *f. geminana* plentiful, often very abundant, wherever bilberry grows (RGW, HWD).
- 1162 ***Rhopobota myrtillana* Humphreys & Westwood** Burnt Wood (WM, HWD). Blakelow, near Stanton, 1984 (RGW).
- 1163 ***Zeiraphera ratzeburgiana* Ratzius** The Oaks, Burton (EB) VCH. Burnt Wood, Cannock Chase, Coombes Valley, in spruce plantations, local (RGW).
- 1165 ***Zeiraphera isertana* Fabricius** Henhurst (EB); Hopwas Wood (WGB); North Staffs (TWD); Rugeley (RF) VCH. Abundant in great variety, on oak (HWD, RGW).

- 1166 ***Zeiraphera diniana* Guenée** North Staffs (TWD); Rugeley (RF) VCH. Rather common on conifers (HWD, RGW).
- 1167 ***Gypsonoma aceriana* Duponchel** Armitage (HWD). Eccleshall (RGW).
- 1168 ***Gypsonoma sociana* Haworth** Burton, common (EB) VCH. Balterley Heath, 1972 (RGW).
- 1169 ***Gypsonoma dealbana* Frölich** Madeley, Needwood Forest (HWD). Common generally (RGW).
- 1170 ***Gypsonoma opressana* Treitschke** Loynton Moss (HWD). Needwood Forest, Eccleshall. (RGW).
- 1174 ***Epiblema cynosbatella* Linnaeus** Burton, common (EB); North Staffs. (TWD); Rugeley, very common (RF) VCH. Common on rose and bramble (HWD, RGW).
- 1175 ***Epiblema uddmanniana* Linnaeus** Henhurst (EB); Burton; North Staffs. (TWD); Rugeley, common (RF) VCH. Madeley (HWD). Trentham (RGW); generally common.
- 1176 ***Epiblema trimaculana* Haworth** Burton, common (EB); Tixall (EDB); Rugeley, very common (RF) VCH. Madeley (HWD). Trentham (RGW). Common.
- 1177 ***Epiblema rosaecolana* Doubleday** Burton, common (EB); Rugeley, very common (RF) VCH. Madeley (HWD). Trentham (RGW); generally common on rose.
- 1178 ***Epiblema roborana* Denis & Schiffermüller** Burton, common (EB); North Staffs. (TWD) VCH. Madeley (HWD). General (RGW).
- 1180 ***Epiblema tetragonana* Stephens** Burton (EB) VCH. Madeley, Waterhouses (HWD). Needwood Forest (RGW). Local and uncommon, on rose.
- 1182 ***Epiblema turbidana* Treitschke** Dovedale, Manifold Valley (HWD). Manifold Valley, 1984 (RGW). Very local, on *Petasites*.
- 1183 ***Epiblema foenella* Linnaeus** Madeley, at light, 1934 (HWD). Trentham, 1952, 1967 (RGW), also Rugeley, Halmerend, Chapel Chorlton, on *Artemisia vulgaris*.
- 1184 ***Epiblema scutulana* Denis & Schiffermüller** Burton (EB); North Staffs. (TWD); Cannock Chase (CGB); Rugeley (RF) VCH. Larvae common in stems of marsh thistle (HWD). Widespread and common, including *f. cirsiana* (RGW).
- 1186 ***Epiblema sticticana* Fabricius** Burton (EB); Rugeley (RF) VCH. Common on coltsfoot (HWD, RGW).
- 1187 ***Epiblema costipunctana* Haworth** Rugeley (RF) VCH. Madeley, Dovedale (HWD). Loynton Moss, Cannock Chase, Manifold Valley, local, commonest on the limestone (RGW).
- 1197 ***Eucosma campoliliana* Denis & Schiffermüller** Cheddleton Heath, 1956 (D.H.Thompson). The only record.
- 1199 ***Eucosma pupillana* Clerck** Clay Mills, 1973; common on *Artemisia absinthium*, Bemersley near Biddulph, 1976; Stafford (RGW). One at light, Trent Vale, 1977 (DWE); Tipton (AJW).
- 1200 ***Eucosma hohenwartiana* Denis & Schiffermüller** The Oaks VCH. Madeley (HWD). Locally common on *Centaurea nigra*; form *fulvana* also occurs (RGW).
- 1201 ***Eucosma cana* Haworth** The Oaks VCH. Madeley, Manifold Valley, Dovedale (HWD). Widespread and common (RGW).
- 1205 ***Spilonota ocellana* Denis & Schiffermüller** Burton, common (EB); Rugeley, very common (RF) VCH. Fairly common (HWD).
- 1205a ***Spilonota laricana* Heinemann** common on larch (RGW).
- 1208 ***Blastesthia posticana* Zetterstedt** Swynnerton, 1940; Chartley Moss; Ipstones Edge; Trentham, 1976 (RGW).
- 1210 ***Rhyacionia buoliana* Denis & Schiffermüller** Burton VCH. Chartley Moss 1919 (J. Douglas); 1946 (RGW). Burnt.Wood (HWD). Cannock Chase (RGW).
- 1211 ***Rhyacionia pinicolana* Doubleday** Chartley Moss, 1919 (J. Douglas). Craddocks Moss, Maer Woods (HWD). Swynnerton (RGW). Ashley Heath (IOJ).
- 1212 ***Rhyacionia pinivorana* Lienig & Zeller** Beaten from Scotch fir (TWD); Rugeley (RF) VCH. Burnt Wood, Whiston Eaves (HWD). Generally common on Scots pine (RGW).
- 1216 ***Enarmonia formosana* Scopoli** Burton (EB) VCH. Madeley, in bark of gean; Armitage (HWD). Trentham, Stone (RGW).
- 1219 ***Lathronympha strigana* Fabricius** Burton (EB) VCH. Madeley, Dovedale (HWD). Burnt Wood, Trentham, Churnet Valley; generally common on *Hypericum* (RGW).
- 1222 ***Strophedra nitidana* Fabricius** Burton (EB) VCH. Burnt Wood, Swynnerton (HWD). Maer Woods (RGW). On oak, local and rare.
- 1223 ***Pammene splendidulana* Guenée** Madeley (HWD). Burnt Wood (HLB). Trentham, Churnet Valley, Dovedale, local and infrequent (RGW).
- 1225 ***Pammene obscurana* Stephens** Craddocks Moss, 1976; Burnt Wood, Trentham (RGW).

- 1227 ***Pammene inquilina* Fletcher** Swynnerton Old Park (TWD) VCH. Burnt Wood (WM, RGW). Madeley, Cannock Chase (HWD). Churnet Valley, Needwood Forest, local and uncommon on oak. (RGW).
- 1228 ***Pammene argyrana* Hübner** Burton (EB); Cannock Chase (CGB); Needwood; Hopwas (WGB) North Staffs. (TWD) VCH. Burnt Wood (WM, RGW). Madeley, common on oak trunks (HWD). Trentham, Moddershall, Churnet Valley (RGW).
- 1232 ***Pammene populana* Fabricius** Madeley (HWD). Downs Banks, 1948-53, not seen recently (RGW).
- 1234 ***Pammene regiana* Zeller** Madeley, on sycamore (TWD) VCH. Whiston Eaves (HWD). Burnt Wood, Trentham, Churnet Valley, Needwood Forest (RGW).
- 1236 ***Pammene fasciana* Linnaeus** Cannock Chase, one at light, 1977 (RGW).
- 1237 ***Pammene germana* Hübner** Madeley, Swynnerton (HWD). Burnt Wood, on oak, local and rare (RGW).
- 1239 ***Pammene rhediella* Clerck** Rather common on hawthorn (HWD). Bagnall, Churnet Valley, Downs Banks, Hopwas, Manifold Valley (RGW).
- 1241 ***Cydia compositella* Fabricius** Apedale, 1981, no previous record, then in subsequent years commonly, also at Trentham, Swynnerton, Walton's Wood, Gnosall (RGW).
- 1242 ***Cydia internana* Guenée** Cannock Chase, bred from pods of gorse, 1954; Trentham (RGW).
- 1245 ***Cydia janthinana* Duponchel** Burton (EB); Rugeley (RF) VCH. Madeley (HWD). NRR.
- 1246 ***Cydia tenebrosana* Duponchel** Burton (EB) VCH. Madeley (HWD). Burnt Wood (RGW). On wild rose, local and uncommon.
- 1251 ***Cydia jungiella* Clerck** Burton (EB) VCH. Madeley (HWD). Widespread and common in grassy places where vetches grow.
- 1254 ***Cydia strobilella* Linnaeus** Maer Woods, larvae in spruce cones (HWD).
- 1255 ***Cydia succedana* Denis & Schiffermüller** Burton (EB); on gorse (TWD); Cannock Chase (CGB); Rugeley, very common (RF) VCH. Abundant on gorse (HWD). A small form noted at Stanton among *Genista anglica* (RGW).
- 1257 ***Cydia nigricana* Fabricius** Burton (EB) VCH. Rather common (HWD).
- 1260 ***Cydia splendana* Hübner** Burnt Wood (HWD). Swynnerton, Cannock Chase, Churnet Valley, not uncommon in oak woods (RGW).
- 1261 ***Cydia pomonella* Linnaeus** Burton (EB) VCH. Madeley, one only; no affected apples in my orchard, 1924-50 (HWD). Newcastle, Trentham, Tamworth, common (RGW).
- 1267 ***Cydia cosmophorana* Treitschke** Burnt Wood, Chartley Moss (HWD).
- 1268 ***Cydia coniferana* Ratzius** The Oaks, Burton (EB) VCH. Craddocks Moss (HWD). Burnt Wood, The Cloud, Chartley Moss (RGW).
- 1271 ***Cydia gallicana* Guenée** Burton (EB) VCH. NRR.
- 1272 ***Cydia aurana* Fabricius** Burton (EB) VCH. Common on cowparsnip flowers (HWD, RGW).
- 1273 ***Dichrorampha petiverella* Linnaeus** Burton (EB) VCH. Madeley, rather common (HWD). Widespread and common (RGW).
- 1274 ***Dichrorampha alpinana* Treitschke** Madeley, Dovedale (HWD, RGW); Gnosall; local, on *Leucanthemum* (RGW).
- 1275 ***Dichrorampha flavidorsana* Knaggs** Great Haywood, 1969; Clay Mills; local, on *Tanacetum*.
- 1276 ***Dichrorampha plumbagana* Treitschke** Burton (EB) VCH. Manifold Valley (HWD).
- 1281 ***Dichrorampha simpliciana* Haworth** Great Haywood, 1969; Clay Mills, Enville, Marchington, local on *Artemisia vulgaris* (RGW).
- 1283 ***Dichrorampha montanana* Duponchel** Rugeley, very common locally (RF) VCH. Madeley (HWD). Widespread, often common locally (RGW).
- 1284 ***Dichrorampha gueneana* Obratzov** Wrinehill, 1974; Swynnerton, Marchington (RGW). On *Achillea*.
- 1285 ***Dichrorampha plumbana* Scopoli** Burton VCH. Madeley, Manifold Valley, Dovedale (HWD). Very common locally (RGW).

## Alucitidae

This family is represented in Britain by a single species, readily distinguished because each wing is divided into six lobes.

- 1288 ***Alucita hexadactyla* Linnaeus** Burton, common; Dove Valley, occasional (FJ); Alstonfield (W.H. Purchas) VCH. Madeley; rather common generally (HWD). Generally common on honeysuckle (RGW).

## Pyralidae

A large and diverse family of medium sized to large moths, some much larger than any others of the micro-lepidoptera. The family is divided into twelve sub-families, nine of which are represented in Staffordshire, with 73 of the 208 British species in the whole family. The low Staffordshire total reflects the markedly southern distribution of many of the species.

## Crambinae

The grass moths, which include some of the commonest British Lepidoptera. In repose they are long and narrow, with wings wrapped round the body, white or pale brown often with conspicuous white streaks. Of the 39 species on the British list, 16 have been recorded in Staffordshire.

- 1290 ***Chilo phragmitella* Hübner** Forton (ESL).  
1293 ***Chrysoteuchia culmella* Linnaeus** Abundant VCH. Widespread and very common (RGW).  
1294 ***Crambus pascuella* Linnaeus** Common VCH. Locally common in the western half of the county in boggy and heathy places, scarce or absent in the east (RGW).  
1297 ***Crambus uliginosellus* Zeller** Tixall, rare VCH. Allimore Green, Downs Banks, Cannock Chase, very local In bogs or wet meadows (RGW).  
1299 ***Crambus hamella* Thunberg** Cannock Chase (HWD, RGW).  
1301 ***Crambus lathoniellus* Zincken** Common in grass fields VCH. Very common generally (RGW).  
1302 ***Crambus perlella* Scopoli** Burton; Rugeley; Two at Swynnerton VCH. Madeley, Cannock Chase (HWD). Locally common (RGW).  
1303 ***Agriphila selasella* Hübner** Doley Common, 1972; Bishops Offley, very local (RGW).  
1304 ***Agriphila straminella* Denis & Schiffermüller** Abundant VCH. Abundant generally (RGW).  
1305 ***Agriphila tristella* Denis & Schiffermüller** Common VCH. Very common generally (RGW).  
1306 ***Agriphila inquinatella* Denis & Schiffermüller** Rugeley; Sinai Park VCH. Whitmore Common, Cannock Chase, Manifold Valley, Dovedale (HWD). Swynnerton, Trentham, locally common on dry grassy banks, colonising old pit mounds, as at Leycett and Hanley Forest Park (RGW).  
1307 ***Agriphila latistria* Haworth** Chorlton Moss, Whitmore Common (HWD). Swynnerton, Trentham, Cannock Chase (RGW). Burnt Wood, 1975 (DWE). Very local in sandy places.  
1309 ***Agriphila geniculea* Haworth** Cannock Chase; 1929-31 (HWD); 1937, 1976, none seen in intervening years; no other records (RGW).  
1313 ***Catoptria pinella* Linnaeus** One in Burnt Wood; Cannock Chase, common VCH. Downs Banks, Trentham, local and scarce but more frequent on Cannock Chase (RGW).  
1314 ***Catoptria margaritella* Denis & Schiffermüller** Common on mosses, Chorlton, Cannock Chase VCH. Maer Woods (HWD). Forton (ESL). Balterley Heath, Burnt Wood, Downs Banks, Chartley Moss, Wall Grange; locally common peat bogs (RGW).  
1316 ***Catoptria falsella* Denis & Schiffermüller** Rugeley; Burton VCH. Dovedale (HWD, RGW). Harlaston, from a street lamp, 1980 (per GAA).

## Schoenobiinae

Aquatic moths, the females larger than the males and with more pointed wings. The larvae bore into stems or feed between spun leaves, sometimes under water. The moths are attracted to light, often at a distance from water. All three British species have been found in Staffordshire.

- 1328 ***Schoenobius gigantella* Denis & Schiffermüller** Burton VCH. NRR.  
1329 ***Donacaula forficella* Thunberg** Burton VCH. Madeley (HWD). Keele, Colton, Alvecote (RGW).  
1330 ***Donacaula mucronellus* Denis & Schiffermüller** Rare, one at Madeley, one at Rugeley; Shobnall canal VCH. NRR.

## Scopariinae

Medium-sized grey moths often found resting on tree trunks or walls. The larvae feed on mosses or lichens or on the roots of herbaceous plants. There are 14 British species in the sub-family and 9 have been found in Staffordshire.

- 1332 ***Scoparia subfusca* Haworth** Fairly common, Cannock Chase VCH. Leek (Hill). Roches, Whiston Eaves (HWD). Trentham, Coombes Valley, Hanbury (RGW).  
1333 ***Scoparia pyralis* Denis & Schiffermüller** Common, Dovedale; Cannock Chase VCH. Swynnerton, Trentham, Cannock Chase, Manifold Valley; most frequent on the limestone (RGW).

- 1334 ***Scoparia ambigualis* Treitschke** Common VCH. Widespread and very common (RGW)
- 1335 ***Scoparia ancipitella* La Harpe** Wood near Uttoxeter; Cannock Chase VCH. Needwood Forest (HWD, RGW). Manifold Valley; on trunks on wych elm (RGW).
- 1338 ***Dipleurina lacustrata* Panzer** Rugeley VCH. Dovedale, on old hawthorn trunks; Burnt Wood (HWD). Waterhouses, Manifold Valley (RGW).
- 1339 ***Eudonia murana* Curtis** Burton; Cannock VCH. Leek (Hill). Madeley, Dovedale, Roches (HWD). Werrington, Stockton Brook, The Cloud, Churnet Valley; frequent on stone walls in the moorlands (RGW).
- 1340 ***Eudonia truncicolella* Stainton** Common in woods VCH. Loynton Moss, Burnt Wood, Swynnerton, Trentham, Cannock Chase, locally common (RGW).
- 1342 ***Eudonia angustea* Curtis** Leek (Hill). Madeley, Whiston Eaves (HWD). Trentham, Wetley Moor, Churnet Valley, Roches (RGW)
- 1344 ***Eudonia mercurella* Linnaeus** Burton (EB) VCH. Leek (Hill). Madeley (HWD). Widespread and common (RGW).

### Nymphulinae

The 'China marks', medium to large moths conspicuously marked with rings on a white background. The larvae are aquatic. Of the 15 British species in this sub-family four occur in Staffordshire.

- 1345 ***Elophila nymphaeata* Linnaeus** Common VCH. Widespread and common on pond weeds (RGW).
- 1348 ***Parapoynx stratiotata* Linnaeus** Madeley; Burton VCH. Loynton Moss, Trentham, local and scarce (RGW).
- 1350 ***Nymphula stagnata* Donovan** Madeley; Burton, common VCH. Leek (Hill). Trentham, Stafford, Wall Grange, locally common on canals and sluggish streams (RGW).
- 1354 ***Cataclysta lemnata* Linnaeus** Common on duckweed VCH. Widespread and common (RGW).

### Acentropinae

A single aquatic species. Small whitish moths, males fly low over water but occasionally on warm nights come to light at a considerable distance from water. Females are of two forms - wingless, never leaving water and winged, larger than males, also coming to light.

- 1331 ***Acentria ephemerella* Denis & Schiffermüller** Common on the Trent, Burton VCH. Madeley (HWD). Copmere (HLB). Loynton Moss, Trentham, Keele, Knypersley, Cannock Chase, Chartley Moss, Oakamoor, at light (RGW).

### Evergestinae

Large moths with broad forewings. The larvae feed on *Cruciferae* and the only one of the three British species to occur in Staffordshire can be a pest in market gardens.

- 1356 ***Evergestis forficalis* Linnaeus** Common VCH. Widespread and common (RGW).

### Pyraustinae

A large sub-family, similar to the *Evergestinae* but some species, especially in the genus *Pyrausta*, are brightly coloured, often purple and yellow. Of the 53 species in the British list, about a quarter are migrant and some very rare; 17 have been found in Staffordshire.

- 1361 ***Pyrausta aurata* Scopoli** Dovedale VCH. Common on the limestone on *Origanum* (HWD). Manifold Valley (RGW).
- 1362 ***Pyrausta purpuralis* Linnaeus** Not common, Craddocks Moss, Cannock Chase, Dovedale; Knightley Park (EB) VCH. Madeley (HWD). Wall Grange, Needwood Forest (RGW).
- 1365 ***Pyrausta cespitalis* Denis & Schiffermüller** Weaver Hills, Dovedale VCH. Madeley, Swynnerton (HWD). Fair oak, Churnet Valley, Manifold Valley, locally common on dry grassy banks (RGW).
- 1367 ***Pyrausta cingulata* Linnaeus** Dovedale VCH. Manifold Valley, locally common on *Thymus* (RGW).
- 1371 ***Sitochroa verticalis* Linnaeus** Stone (EDB) VCH. The only record, ? if correct.
- 1373 ***Microstega pandalis* Hübner** Tixall VCH. The only record.
- 1376 ***Eurrhynx hortulata* Linnaeus** Common on nettles VCH. Widespread and common (RGW).
- 1378 ***Phlyctaenia coronata* Hufnagel** Common on elder VCH. I have not found it so at Madeley (HWD). Occasional, Craddocks Moss, Trentham, Chartley Moss, Alvecote (RGW).

- 1385 ***Ebulea crocealis* Hübner** Madeley, Cannock Chase VCH. Madeley, 1935 (HWD). Cannock Chase, 1963; Allimore Green, Fauld (RGW). Very local on *Pulicaria*.
- 1386 ***Opsitotys fuscalis* Denis & Schiffermüller** Common in meadows VCH. Manifold Valley, 1938, not seen since (RGW). The decline of this species is no doubt due to the elimination of its food plant, *Rhinanthus*, from meadows by modern agricultural practice.
- 1388 ***Udea lutealis* Hübner** Common VCH. Generally abundant (HWD, RGW).
- 1390 ***Udea prunalis* Denis & Schiffermüller** Common VCH. Generally common (RGW).
- 1392 ***Udea olivalis* Denis & Schiffermüller** Common VCH. Locally common (RGW).
- 1395 ***Udea ferrugalis* Hübner** Burnt Wood VCH. Madeley (8140). Trentham, Keele, Eccleshall, a common migrant (RGW).
- 1398 ***Nomophila noctuella* Denis & Schiffermüller** Madeley; Burton VCH. Rugeley, common (RF). Madeley, Betley, Cannock Chase, Needwood Forest (HWD). Forton (ESL). An immigrant species, common some years (RGW).
- 1405 ***Pleuroptya ruralis* Scopoli** One at Little Madeley; Rugeley, common; Burton district VCH. Very common generally on nettles (HWD, RGW).

### Pyralinae

Medium to large moths, distinctively coloured, some in purple and gold. Larvae often on stored products but not in pest proportions. Twelve British species, of which four have been found in Staffordshire.

- 1413 ***Hypopygia costalis* Fabricius** Locally common, Trentham, Keele, Cannock Chase, Chartley Moss (RGW). Blythe Bridge Mill (JAH). Ashley Heath (IOJ).
- 1415 ***Orthopygia glaucinalis* Linnaeus** Burnt Wood; Burton, VCH. NRR.
- 1417 ***Pyralis farinalis* Linnaeus** Common throughout the county VCH. The 'Meal Moth', once common in stables, now scarce. Dosthill Quarry, Staffs/Warwickshire border, 1981 (P.R. Darch).
- 1421 ***Aglossa pinguinalis* Linnaeus** General, Burton, Madeley, Rugeley VCH. Now scarce; Trentham, 1952 (RGW).

### Galleriinae

Distinctive medium to large moths with elongate forewings and often marked sexual dimorphism. The larvae feed in nests of *Hymenoptera*, or some on stored products. Of the seven British species, two are recorded in Staffordshire.

- 1426 ***Achroia grisella* Fabricius** Madeley; Burton VCH. In bee hives. A few at intervals of years in my garden at Madeley (HWD). Burnt Wood (RLB).
- 1428 ***Aphomia sociella* Linnaeus** In wasps' nests; comes freely to light. Burnt Wood (HLB). Madeley, 1948 (HWD). Loynton Moss, 1971; Cannock Chase, Oakamoor (RGW). Eccleshall (GM).

### Phycitinae

A large sub-family of mainly medium-sized moths with narrow elongate forewings and mostly subdued colouring. The males of some species have the antennae thickened at the base and are known as 'knot-horns'. The larval feeding habits are diverse; some are on stored products and can be pests. There are 58 species on the British list, of which 17 have been recorded in Staffordshire.

- 1433 ***Cryptoblabes bistriga* Haworth** Hopwas VCH. Madeley, 1925 (HWD). Burnt Wood, Trentham, in oak woods, local and scarce (RGW).
- 1437 ***Acrobasis consociella* Hübner** Swynnerton, common VCH. NRR.
- 1439 ***Numonia advenella* Zincken** Rugeley VCH. Blythe Bridge Mill (JAH). Trent Vale (DWE).
- 1442 ***Pempelia palumbella* Denis & Schiffermüller** Swynnerton, Cannock Chase VCH. Burnt Wood (HLB). Maer Woods (HWD, RGW, last record 1948).
- 1450 ***Metriostola betulae* Goeze** Swynnerton VCH. Chartley Moss, 1917 (J. Douglas). Burnt Wood, common (RF). Maer Woods, Trentham, Churnet Valley, locally common on birch.
- 1451 ***Pyla fusca* Haworth** Common on heaths, Swynnerton, Cannock Chase VCH. Chorlton Moss, Madeley, Maer Woods (HWD). Trentham, Stockton Brook, Coombes Valley, Leek Moors (RGW). Trent Vale (DWE).
- 1452 ***Phycita roborella* Denis & Schiffermüller** Swynnerton, VCH. Burnt Wood, Madeley, Maer Woods (HWD). Trentham, Coombes Valley, Chillington, common in oak woods (RGW).

- 1454 ***Dioryctria abietella* Denis & Schiffermüller** Swynnerton, 1933 (E.G.Warren); Burnt Wood (HLB); Cannock Chase; Chartley Moss, 1962 (RGW). Ashley Heath, 1983 (IOJ).
- 1457 ***Hypochoalcia ahenella* Denis & Schiffermüller** Dovedale (HCH). NRR.
- 1458 ***Myelois cribrella* Hübner** Blythe Bridge Mill, 1977 (JAH).
- 1473 ***Ephestia elutella* Hübner** Burton VCH. Spread by commerce, but taken in the fields at Madeley, perhaps from old birds' nests (HWD). Trentham, Dane Valley (RGW). Frequently reported as a pest in stored products.
- 1475 ***Ephestia kuehnieila* Zeller** Leek, on walls of corn mill (Hill). Madeley (HWD). Tipton (AJW).
- 1478 ***Ephestia calidella* Guenée** Madeley VCH. Madeley (HWD).
- 1479 ***Plodia interpunctella* Hübner** Madeley VCH. Penkridge (G. Ward).
- 1481 ***Homoeosoma sinuella* Fabricius** Gnosall, 1985, common on disused railway track (RGW).
- 1482 ***Homoeosoma nimbella* Duponchel** Madeley (HWD).
- 1483 ***Phycitodes binaevella* Hübner** Alvecote, 1979; Tipton 1985 (AJW).

## Pterophoridae

The 'Plume Moths', medium-sized moths of characteristic form the forewings being cleft into two lobes and the hindwings into three. The body is slender and the legs very long. Many of the larvae are short, stout and hairy and the pupae, often also hairy, are attached to a leaf or stem rather like those of a butterfly. There are 40 British species of which 17 have been recorded in Staffordshire.

- 1493 ***Buckleria paludum* Zeller** Balterley Heath, 1964 (RGW). Tutt, in '*Pterophorina of Britain*', 1877, refers to a report of this species from a small bog near Crewe by a Mr. W. Thompson between 1850 and 1860, and no doubt this is the same site. The larva feeds on sundew.
- 1494 ***Capperia britanniodactyla* Gregson** Cannock Chase VCH. On *Teucrium*. Maer Woods, common in a restricted area (HWD). Trentham, Dovedale (RGW).
- 1497 ***Amblyptilia acanthodactyla* Hübner** Burton; Cannock Chase VCH. Wetley Moor, 1947; Cheddleton Heath, 1956 at light (RGW).
- 1501 ***Platyptilia gonodactyla* Denis & Schiffermüller** Near Burton VCH. Madeley (HWD). Forton (ESL). Widespread and common on coltsfoot (RGW).
- 1502 ***Platyptilia isodactylus* Zeller** Aqualate, 1980 (RGW). On *Senecio aquatica*.
- 1503 ***Platyptilia ochrodactyla* Denis & Schiffermüller** Great Haywood, on *Tanacetum* on river bank, 1969; Halmerend (RGW).
- 1504 ***Platyptilia pallidactyla* Haworth** Leek (Hill). Madeley (HWD). Trentham, Apedale, Churnet Valley, locally common on *Achillea*.
- 1506 ***Stenoptilia saxifragae* Fletcher** Wall Grange in a garden, 1973, no doubt introduced with saxifrage plants (RGW).
- 1508 ***Stenoptilia bipunctidactyla* Scopoli** Tixall VCH. A common species; Burnt Wood, Craddocks Moss, Madeley, Morridge, Manifold Valley (HWD). Widespread and common on *Scabiosa succisa*; on the limestone, a large distinctly-marked form on *S. columbaria* (RGW).
- 1509 ***Stenoptilia pterodactyla* Linnaeus** Burton; Tixall VCH. Madeley, Dovedale, Manifold Valley (HWD). Widespread and common (RGW).
- 1510 ***Pterophorus tridactyla* Linnaeus** Burton (EB) VCH. Dovedale (HWD, RGW). On *Thymus*.
- 1512 ***Pterophorus baliodactylus* Zeller** Dovedale (HWD, RGW). On *Origanum*.
- 1513 ***Pterophorus pentadactyla* Linnaeus** Burton, common; Hayfield, very common (FJ) VCH. Generally common on bindweed (HWD, RGW).
- 1517 ***Adaina microdactyla* Hübner** Dovedale (HWD). Allimore Green (RGW). On *Eupatorium*.
- 1520 ***Leioptilus osteodactylus* Zeller** Loynton Moss, 1976 (DAD). Trent Vale, several at light, 1977 (DWE). Trentham, Apedale, 1982 (RGW). The usual foodplant, *Solidago* is not present in these places and the probable alternative is *Senecio*.
- 1523 ***Oidaematophorus lithodactyla* Treitschke** Near Burton VCH. Allimore Green (RGW). On *Pulicaria*.
- 1524 ***Emmelina monodactyla* Linnaeus** Burton, common VCH. Dovedale; emerges late and hibernates, but examples of partial summer emergence at light at Madeley, 17.vii.1934 (HWD). Widespread and common in some seasons (RGW).



## Plant species referred to in the text

The list is in alphabetical order of the name given in the text followed by the corresponding common or scientific name as the case may be. The common names have been taken from 'English Names of Wild Flowers' by J.G. Dony, F.H. Perring and C.M. Rob (BSBI 1980).

<i>Achillea</i>	Yarrow, Sneezewort
Alder	<i>Alnus</i>
<i>Angelica</i>	Angelica
Apple	<i>Malus</i>
<i>Arctium</i>	Burdock
<i>Armeria</i>	Thrift
<i>Artemisia absinthium</i>	Wormwood
<i>Artemisia vulgaris</i>	Mugwort
Ash	<i>Fraxinus excelsior</i>
Aspen	<i>Populus tremula</i>
Beech	<i>Fagus</i>
<i>Betula pendula</i>	Silver Birch
<i>Betula pubescens</i>	Downy Birch
Bilberry	<i>Vaccinium myrtillus</i>
Bindweed	<i>Convolvulus, Calystegia</i>
Birch	<i>Betula</i>
Blackthorn	<i>Prunus spinosa</i>
Bracken	<i>Pteridium aquilinum</i>
Bramble	<i>Rubus fruticosus</i>
Broom	<i>Sarothamnus scoparius</i>
<i>Bryonia</i>	White Bryony
<i>Calluna</i>	Heather
<i>Cardamine</i>	Bittercress, Cuckoo flower
<i>Cardamine amara</i>	Large Bittercress
<i>Centaurea</i>	Knapweeds
<i>Centaurea nigra</i>	Common Knapweed
<i>Chamerion angustifolium</i>	Rosebay Willowherb
<i>Chenopodium</i>	Goosefoots
Cocksfoot Grass	<i>Dactylis glomerata</i>
Coltsfoot	<i>Tussilago farfara</i>
<i>Conarum palustre</i>	Marsh cinquefoil
Cowparsnip	<i>Heracleum sphondylium</i>
Duckweed	<i>Lemna</i>
Elder	<i>Sambucus nigra</i>
<i>Eleocharis</i>	Spike Rush
Elm	<i>Ulmus</i>
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Erica</i>	Heath
<i>Eriophorum</i>	Cottongrass
<i>Eupatorium</i>	Hemp-agrimony
Field Maple	<i>Acer campestre</i>
Garden Privet	<i>Ligustrum ovalifolium</i>
Gean	<i>Prunus avium</i>
<i>Genista anglica</i>	Petty Whin

<i>Genista tinctoria</i>	Dyer's Greenweed
<i>Glyceria maxima</i>	Reed Sweetgrass
Gorse	<i>Ulex</i>
Hawthorn	<i>Crataegus</i>
Hazel	<i>Corylus</i>
Heather	<i>Calluna vulgaris</i>
<i>Helianthemum</i>	Rock-rose
Hemlock	<i>Conium maculatum</i>
<i>Heracleum</i>	Hogweed
Holly	<i>Ilex aquifolium</i>
<i>Hyacinthoides non-scripta</i>	Bluebell
Honeysuckle	<i>Lonicera</i>
<i>Hypericum</i>	St. John's-Wort
<i>Juncus</i>	Rush
<i>Juncus glaucus</i>	Hard Rush
Laburnum	<i>Laburnum anagyroides</i>
Larch	<i>Larix</i>
<i>Leucanthemum</i>	Shasta Daisy, Oxeye Daisy
Lilac	<i>Syringa vulgaris</i>
Ling	<i>Calluna vulgaris</i>
<i>Lotus</i>	Bird's-foot Trefoil
<i>Luzula campestris</i>	Field Wood-rush
<i>Malus</i>	Apple spp.
Maple	<i>Acer spp.</i>
Marsh Thistle	<i>Cirsium palustre</i>
<i>Myosotis</i>	Forget-me-not
Nettles	<i>Urtica</i>
Norway Maple	<i>Acer platanoides</i>
Oak	<i>Quercus</i>
<i>Origanum</i>	Marjoram
<i>Petasites</i>	Butterbur
<i>Phalaris</i>	Canary-grass
Pine	<i>Pinus</i>
Plantain	<i>Plantago</i>
Poplar	<i>Populus</i>
Privet	<i>Ligustrum</i>
<i>Prunus</i>	Cherry
<i>Prunus padus</i>	Bird Cherry
<i>Pulicaria</i>	Fleabane
<i>Quercus ilex</i>	Evergreen Oak
Raspberry	<i>Rubus idaeus</i>
<i>Rhinanthus</i>	Yellow Rattle
<i>Rosa</i>	Rose
Rowan	<i>Sorbus aucuparia</i>
<i>Rubus</i>	Bramble
<i>Rumex acetosella</i>	Sheep's Sorrel
Rushes	<i>Juncus</i>

<i>Salix</i>	Willow
<i>Salix caprea</i>	Goat Willow
<i>Salix viminalis</i>	Osier
Sallow	<i>Salix</i>
Saxifrage	<i>Saxifraga</i>
<i>Scabiosa columbaria</i>	Small Scabious
<i>Scabiosa succisa</i>	Devil's-bit Scabious
Scotch Fir	<i>Pinus sylvestris</i>
Scots pine	<i>Pinus sylvestris</i>
<i>Scutellaria</i>	Skullcap
Sedges	<i>Carex</i>
<i>Sedum acre</i>	Biting Stonecrop
<i>Sedum telephium</i>	Orpine
<i>Senecio</i>	Ragwort, Groundsel
<i>Senecio aquatica</i>	Marsh Ragwort
<i>Solanum dulcamara</i>	Bittersweet
<i>Solidago</i>	Goldenrod
<i>Sparganium</i>	Bur-reed
Spindle	<i>Euonymus europaeus</i>
Spruce	<i>Picea</i>
<i>Succisa</i>	Devil's-bit Scabious
Sundew	<i>Drosera</i>
Sycamore	<i>Acer pseudoplatanus</i>
<i>Symphytum</i>	Comfrey
<i>Tanacetum</i>	Feverfew, Tansy
<i>Teucrium</i>	Germander
Thistles	<i>Cirsium, Carduus</i>
<i>Thymus</i>	Thyme
<i>Typha</i>	Bulrush
<i>Ulmus procera</i>	English Elm
<i>Ulmus glabra</i>	Wych Elm
<i>Vaccinium myrtillus</i>	Bilberry
<i>Vaccinium vitis-idaea</i>	Cowberry
<i>Veronica</i>	Speedwell
Vetches	<i>Vicia</i>
<i>Viburnum opulus</i>	Guelder-rose
<i>Viola hirta</i>	Hairy Violet
Wild Rose	<i>Rosa</i>
Willows	<i>Salix</i>
Wych Elm	<i>Ulmus glabra</i>