

SCIENCE PAPER No. 5.

A LIST

OF THE

LEPIDOPTERA

OCCURRING WITHIN

SIX MILES OF HASLEMERE.

COMPILED BY

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With Geological Map of the District and 2 Plates.

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or from the Hon. Secretary.*

INTRODUCTION.

THE "Victoria Histories" of Surrey and Sussex contain lists of the Lepidoptera to be found in those counties, but it is difficult to pick out from these the insects of the Haslemere district; and as it is now nearly fifty years since Mr. C. G. Barrett published his list of the Lepidoptera found by him in this locality, the time seems opportune for a more up-to-date record. And the compilation of the following list has been rendered possible, because several entomologists have been working the district during the past six or seven years. Their records have been collected and embodied in this paper. It is not claimed to be exhaustive—indeed, its publication has been delayed for more than two years because additions were continually being made, but a careful perusal of the list will show what a rich locality this is, both in the numbers and in the rarity of the insects found.

To take the Rhopalocera alone, it will be a matter of surprise to many that no fewer than forty-six species, out of a total for Great Britain of sixty-eight, have been taken here, and though there are only isolated records of one or two species, these records are all well authenticated, and in the majority of cases the insects are well established. One or two are of special interest.

Leucophasia sinapis has been found in several different places, though not generally taken in numbers. There has been a good deal of correspondence in the 'Entomologist' lately, to the effect that this species is getting scarcer in its old haunts, and especially in the New Forest, where it is now almost, if not quite, extinct. It is a matter for congratulation that such a dainty little fly seems to stand in little danger of dying out here; but local collectors have been sparing in their captures, and everyone who may happen upon one of its haunts is urged to show equal consideration.

Apatura iris, the most brilliant of our native butterflies, is also found in many parts of the district, and *Limenitis sibylla* occurs in several places. Two specimens of *Vanessa antiopa*,

which is always a casual visitor in England, have been taken at Witley, and two undoubted records of *Polygonia c-album* exist, though it is possible that these were specimens that had escaped from the breeding cage. The dark variety *Valesina* of *Argynnis paphia* has been taken at Waggoner's Wells, and the writer has seen two specimens of *Melitæa athalia* taken here in 1907 and 1909. Two other species, *Argynnis aglaia* and *Melanargia galatea*, which are usually confined to chalk districts, have strayed into our area from time to time.

Among the Heterocera, it may be worth recording that *Sphinx convolvuli* was taken more than once in 1911, and *Deilephila livornica* in 1906; and among the less common insects may be mentioned *Stauropus fagi*, *Drymonia trimaculata* = *dodonæa* (quite plentiful), *Odontotia carmelita*, *Palimpsestis fluctuosa*, *Orygia gonostigma*, *Endromis versicolor*, *Hylophila bicolorana*, *Acronycta albi*, *Agrotis agathina*, *Noctua ditrapezium*, *Aplecta tinctoria*, *Stilbia anomala*, *Orrhodia rubiginosa*, *Lithophane semibrunnea*, *Cucullia gnaphalii*, *Madopa salicis* (recorded by Mr. Barrett, but apparently not found since), *Euchloris pustulata*, *Eustroma silaceata*, *Eulype hastata*, *Coremia quadri-fasciaria*, and many others.

Among varieties the following are perhaps worth recording:—The *helice* form of *Colias edusa*: a specimen of *Argynnis euphrosyne*, with white ground colour instead of brown, taken at Witley: a remarkable aberration of *Epinephele tithonus*, with flesh-coloured markings instead of dark, on normal ground, taken in 1897, and sold at Stevens's in 1909 for £8 10s.: a variety of *Noctua ditrapezium* without the usual black spots and markings: much variation in *Triphæna fimbria*: a green variety of *Ellopiæ prosapiaria*: a dark unicolorous variety of *Epione advenaria*: a very wide range of variation in *Boarmia repandata*, including the banded form *Conversaria* and the black form *Nigricata*: confluent forms of *Zygæna trifolii*, almost as common as the type in one locality.

The nomenclature adopted—except for the so-called "Micros," where Meyrick's 'Handbook' has been followed, and details of capture omitted, through lack of adequate knowledge—is that used by Mr. R. South, F.E.S., in his 'Butterflies and Moths of the British Isles,' which is the standard work for the general collector; but several names, adopted according to the law of priority, seem strange and unfamiliar, and the more familiar names have been added in brackets.

It only now remains to record the names of those who have given their help in the compilation of this list. First and foremost is Mr. H. Watkins, whose list of personal captures is a long one, and whose untiring work at the Museum and in

collecting information has greatly simplified the compiler's task; Mr. B. E. Jupp, who collected in the district from 1908 till 1912, and who was an indefatigable and quite remarkably expert observer and collector, the news of whose lamented death has only recently reached us; Mr. J. E. Eastwood, F.E.S., who has made a fine collection at Witley; the late Miss A. Evans, who collected in Witley about twenty years ago, and the bulk of whose collection is in the Museum; the late Mr. C. G. Barrett, F.E.S., who has been mentioned above, and whose work is too well known to entomologists to need more than passing reference here; the late Mr. E. Newman, F.E.S., whose well-known book with its excellent woodcuts has been, and still is, a great help to many entomologists; and the following—Colonel Brown, Mr. F. Bullock, Mr. E. L. Collingwood, Mr. C. Donkin, Mr. F. H. Gossage, Mr. G. Hale, Mr. G. M. Harris, Mr. R. E. Hubbuck, Miss R. Jackson, Mr. W. J. Kaye, F.E.S., Miss A. Lunn, Mr. W. C. Marshall, Mr. R. Railton, Mr. A. Richards, Mr. C. Robertson, Mr. H. Roe, Mr. J. Roe, Captain Salvin, Mr. H. J. Spindler, Mr. E. W. Swanton, Mr. A. E. Tonge, F.E.S., Mr. I. Williams, and others.

It should be added that, for facility of reference, the Museum collections have been overhauled and red labels have been attached to all species occurring locally, and to all specimens captured locally.

The plates are from photographs taken by members of the Haslemere Natural History Society—those of *Apatura iris* by Mr. N. K. Cherrill, and those of *Leucophasia sinapis* by Major H. N. Webb, in each case from living specimens.

F. A. OLDAKER.

June, 1913.

LIST OF LEPIDOPTERA.

PAPILIONIDÆ.

PIERINÆ.

- Pieris brassicæ*. Common.
P. rapæ. Common.
P. napi. Common.
Euchloë cardamines. Common.
Leucophasia sinapis. Well established in several parts of the district.
Colias hyalæ. One in 1868, and one in 1892.
C. edusa. Several in 1892 and 1900; recorded also in 1898 and 1913.
Var. *Helice* in 1892.
Gonepteryx rhamni. Common.

NYMPHALIDÆ.

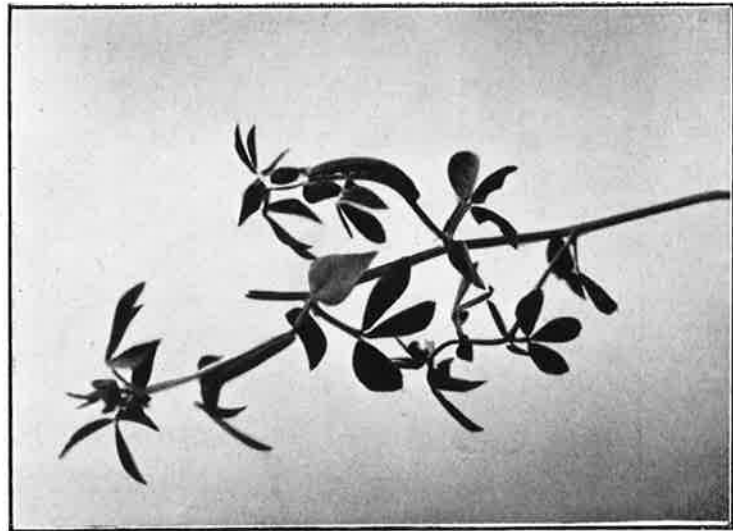
APATURINÆ.

- Apatura iris*. Seen or captured almost every year.

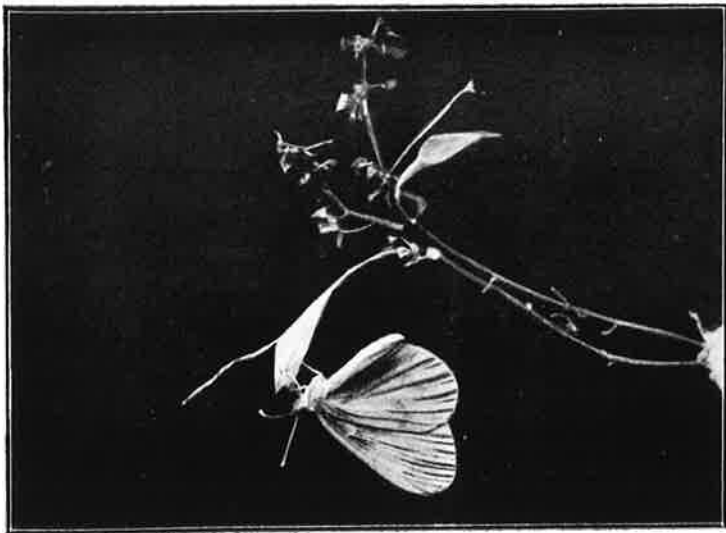
NYMPHALINÆ.

- Limenitis sibylla*. Taken in several parts of the district.
Polygonia c-album. Two taken, probably escaped from breeding cages or strayed.
Vanessa polychloros. Found every year, but never common.
V. urtica. Common.
V. io. Common.
V. antiopa. Two taken in Witley about 1880.
Pyrameis cardui. Fairly common, but fitful in appearance.
P. atalanta. Fairly common in some years.
Argynnis paphia. Common in places.
Var. *valesina* taken in 1911.
A. adippe. Uncommon.
A. aglaja. Taken at Witley and Fernhurst, but probably strayed.
A. euphrosyne. Common; see Introduction.
A. selene. Common.

PLATE I.

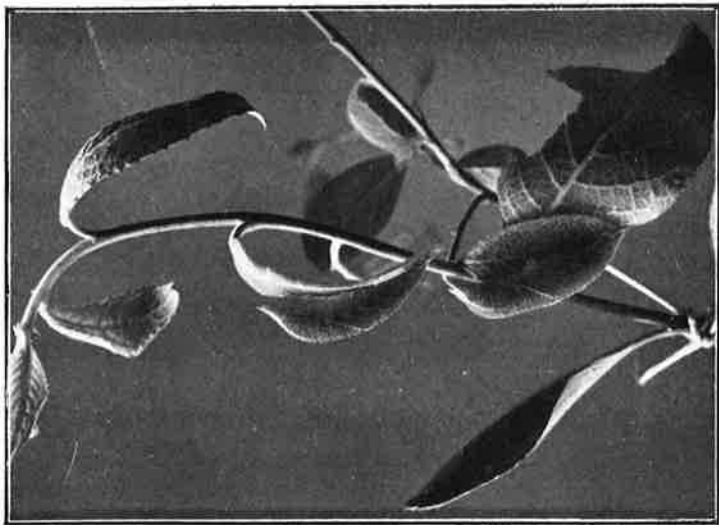


Full-fed larvae of *LEUCOPHASIA SINAPIS* on *Lotus corniculatus*.

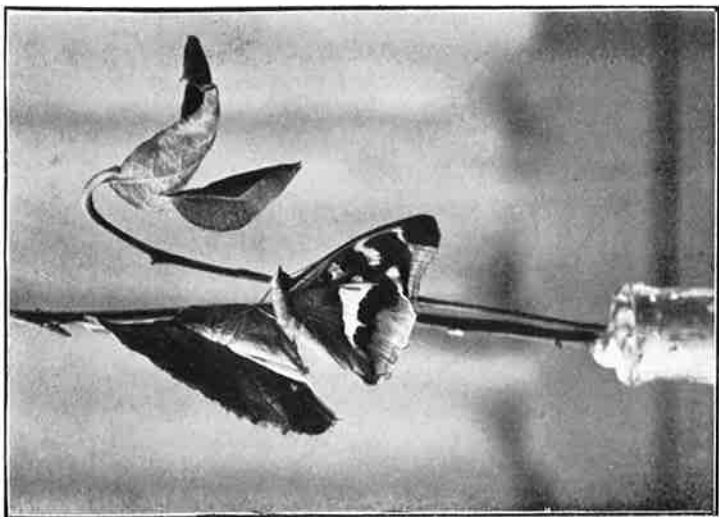


Male *LEUCOPHASIA SINAPIS* just emerged, and living pupa.

PLATE II.



Full-fed larvæ of APATURA IRIS on *Salix caprea*.



Male APATURA IRIS just emerged from pupa, and living pupa.

Melitæa athalia. Taken in 1907 and 1909.

M. aurinia. Formerly found.

SATYRINÆ.

Melanargia galatea. Rare, probably strayed.

Satyrus semele. Common.

Parage egeria. Fairly plentiful in Witley, uncommon elsewhere.

P. megæra. Common.

Epinephele janira. Common.

E. tithonus. Common; see Introduction.

Aphantopus hyperanthus. Common.

Cænonympha pamphilus. Common.

LYCÆNIDÆ.

LYCÆNINÆ.

Zephyrus quercus. Common.

Thecla w-album. Rare.

Callophrys rubi. Common.

Chrysophanus phlaeas. Common.

Lycæna argus = *ægon*. Not uncommon on the heaths.

L. astrarche. Fairly plentiful but local.

L. icarus. Common.

Cyaniris argiolus. Common.

Zizera minima. Local and uncommon.

LEMONIIDÆ.

NEMEOBINÆ.

Nemeobius lucina. Very local and uncommon.

HESPERIIDÆ.

HESPERINÆ.

Hesperia malva. Common.

Thanaos tages. Common.

PAMPHILINÆ.

Adopœa thaumas. Common.

Augiades sylvanus. Common.

SPHINGIDÆ.

Dilina tiliæ. Uncommon.

Smerinthus populi. Common.

S. ocellatus. Common.

- Acherontia atropos*. Rare.
Sphinx convolvuli. Occasional ; several taken in 1911.
S. ligustri. Fairly common.
Phryxus livornica. Four taken in 1906.
Metopsilus porcellus. Uncommon.
Cherocampa elpenor. Fairly common.
Macroglossa stellatarum. Common in some years.
Hemaris fuciformis. Uncommon.
H. tityus = *bombylifomis*. Rare.

NOTODONTIDÆ.

- Cerura bifida*. Uncommon.
C. furcula. Fairly common.
Dicranura vinula. Common.
Stauropus fagi. Rare.
Drymonia trimacula = *dodonæa*. Common.
D. chaonia. Uncommon.
Pheosia tremula = *dictæa*. Fairly common.
P. dictæoides. Uncommon.
Notodonta ziczac. Fairly common.
N. dromedarius. Common.
N. trepida. Common.
Lophopteryx camelina. Common.
Odontosia carmelita. Rare.
Pterostoma palpina. Fairly common.
Phalera bucephala. Common.
Pygæra curtula. Uncommon.
P. pigra. Uncommon.

THYATIRIDÆ

- Habrosyne derasa*. Fairly common.
Thyatira batis. Fairly common.
Palimpsestis or. Uncommon.
P. duplaris. Common.
P. fluctuosa. Uncommon.
Asphalica diluta. Common.
Polyploca flavicornis. Common.
P. ridens. Uncommon.

LYMANTRIIDÆ.

- Orgyia gonostigma*. Rare.
O. antiqua. Common.
Dasychira fascelina. Uncommon.
D. pudibunda. Common.

- Porthesia similis*. Fairly common.
Stilpnotia salicis. Fairly common.
Lymantria monacha. Fairly common.

LASIOCAMPIDÆ.

- Malacosoma neustria*. Common.
Trichiura crategi. Uncommon.
Pæcilocampa populi. Common.
Eriogaster lanestris. Uncommon.
Lasiocampa quercus. Fairly common.
Macrothylacia rubi. Fairly common.
Cosmotriche potatoria. Fairly common.

ENDROMIDIDÆ.

- Endromis versicolor*. Rare.

SATURNIIDÆ.

- Saturnia pavonia*. Common.

DREPANIDÆ.

- Drepana falcataria*. Common.
D. binaria. Fairly common.
D. cultraria. Uncommon.
D. lacertinaria. Common.
Cilix glaucata. Fairly common.

NOLIDÆ.

- Nola strigula*. Uncommon.
N. confusalis. Fairly common.

CHLOËPHORIDÆ.

- Hylophila prasinana*. Common.
H. bicolorana. Uncommon.

SARROTHRIPINÆ.

- Sarrothripa revayana*. Uncommon.

ARCTIIDÆ.

ARCTIINÆ.

- Spilosoma menthastri*. Common.
S. lubricipeda. Common.

- Diaphora mendica.* Common.
Phragmatobia fuliginosa. Fairly common
Parasemia plantaginis. Uncommon.
Diacrisia sanio = russula. Common.
Arctia caja. Uncertain in appearance.
A. villica. Fairly common.
Hipocrita jacobææ. Common.

LITHOSIINÆ.

- Atolmis rubricollis.* Fairly common.
Nudaria mundana. Uncommon.
Miltochrista miniata. Uncommon.
Cybosia mesomella. Local, but plentiful.
Lithosia deplana. Rare.
L. griseola. Common at Witley in water meadows.
L. lurideola. Common.
L. complana. Uncommon.
L. sororcula. Fairly common.

NOCTUIDÆ.

ACRONYCTINÆ.

- Denias coryli.* Common.
Acronycta leporina. Uncommon.
A. aceris. Uncommon.
A. megacephala. Uncommon.
A. alni. Rare.
A. tridens. Probably commoner than supposed, owing to difficulty of identification.
A. psi. Common.
A. rumicis. Fairly common.
Craniophora ligustri. Uncommon.
Bryophila perla. Common.
B. glandifera. Rare.

TRIFINÆ.

- Agrotis segetum.* Common.
A. corticea. Fairly common.
A. puta. Common.
A. tritici. Common.
A. exclamationis. Common.
A. ypsilon. Uncommon.
A. strigula. Common.
A. saucia. Fairly common.
A. agathina. Uncommon.
Noctua augur. Uncommon.
N. glareosa. Uncommon.

- Noctua castanea* and ab. *neglecta*. Uncommon.
N. baja. Common.
N. c-nigrum. Common.
N. ditrapezium. Local, but plentiful; see Introduction.
N. triangulum. Common.
N. stigmatica. Uncommon.
N. brunnea. Common.
N. primulae = *festiva*. Common and variable.
N. rubi. Common.
N. umbrosa. Common.
N. xanthographa. Common.
N. plecta. Common.
Axylia putris. Common.
Triphaena comes = *orbona*. Common.
T. orbona = *subsequa*. Uncommon.
T. pronuba. Common.
T. fimbria. Common and variable.
T. ianthina. Common.
T. interjecta. Uncommon.
Eurois prasina = *herbida*. Uncommon.
Aplecta tincta. Uncommon.
A. advena. Uncommon.
A. nebulosa. Common.
Barathra brassicae. Common.
Mamestra persicariae. Fairly common.
M. oleracea. Common.
M. genista. Fairly common.
M. thalassina. Common.
M. contigua. Fairly common.
M. pisi. Fairly common.
M. trifolii. Uncommon.
M. dentina. Common.
Dianthæcia conspersa. Uncommon.
D. capsicola. Fairly common.
D. cucubali. Common.
D. carpophaga uncommon, and ab. *capsophila* rare.
Hecatera serena. Common.
Neuria reticulata. Uncommon.
Epineuronia popularis. Common.
Tholera cespitis. Uncommon.
Eumichtis adusta. Fairly common.
E. prolea. Fairly common.
Bombycia viminalis. Common.
Diloba caruleocephala. Common.
Luperina testacea. Common.
Cerigo matura. Common.

- Hama sordida*. Uncommon.
Apamea gemina. Common in all its forms.
A. basilinea. Common.
A. secalis = *oculea*. Common.
Miana strigilis. Common.
M. fasciuncula. Common.
M. literosa. Fairly common.
M. bicoloria. Fairly common.
Xylophasia rurea. Fairly common; also var. *alopecurus*
X. lithoxylea. Common.
X. monoglypha. Common.
X. hepatica. Fairly common.
X. scolopacina. Uncommon.
Dipterygia scabriuscula. Common.
Aporophyla lutulenta. Uncommon.
A. nigra. Uncommon (common in 1908).
Brachionycha sphinx. Uncommon.
Miselia oxyacanthæ. Common.
Agriopis aprilina. Common.
Euplexia lucipara. Common.
Phlogophora meticulosa. Common.
~~*Mormo maura*. Fairly common.~~
Nænia typica. Fairly common.
Hydræcia nictitans. Common.
H. micacea. Common.
Ochria ochracea. Common.
Nonagria typha. Common where its foodplant occurs
Tapinostola fulva. Uncommon.
Leucania pallens. Common.
L. impura. Fairly common.
L. impudens = *pudorina*. Uncommon.
L. comma. Common.
L. lithargyria. Common.
L. conigera. Common.
L. turca. Uncommon.
Granmesia trigrammica. Common.
Stilbia anomala. Uncommon.
Caradrina morpheus. Common.
C. alsines. Common.
C. taraxaci. Common.
C. quadripunctata. Fairly common.
Rusina tenebrosa. Common.
Amphipyra pyramidea. Common.
A. tragopogonis. Fairly common.
Panobis griseo-variegata = *piniperda*. Local, but plentiful.
Pachnobia leucographa. Uncommon.

- Pachnobia rubricosa*. Common.
Tæniocampa gothica. Common.
T. miniosa. Fairly common.
T. pulverulenta. Common.
T. stabilis. Common.
T. populeti. Uncommon.
T. incerta. Common and variable.
T. munda. Common and variable.
T. gracilis. Fairly common.
Calymnia pyralina. Rare.
C. affinis. Uncommon.
C. trapezina. Common.
Dyschorista suspecta. Uncommon.
D. fissipuncta. Uncommon.
Plastenis retusa. Uncommon.
P. subtusa. Uncommon.
Omphaloscelis lunosa. Common.
Amathes lota. Common.
A. macilentata. Common.
A. circellaris. Common.
A. helvola = *rufina*. Common.
A. lychnidis = *pistacina*. Common.
A. litura. Common.
Cirrhia citrigo. Fairly common.
Ochria aurago. Uncommon.
Xanthia lutea = *flavago*. Common.
X. fulvago common, and ab. *flavescens*.
Xantholeuca croceago. Uncommon.
Orrhodia vaccinii. Common.
O. ligula = *spadicea*. Fairly common.
O. rubiginea. Rare, except at Witley.
Eupsilia satellitia. Common.
Lithophane semibrunnea. Rare.
L. socia. Uncommon.
Graptolitha ornithopus. Common.
Xylocampa areola. Common.
Calocampa exoleta. Uncommon.
C. vetusta. Uncommon.
Cucullia verbasci. Fairly common.
C. scrophulariæ = *lychnitidis*. Rare.
C. asteris. Uncommon.
C. umbratica. Uncommon.
C. chamomillæ. Uncommon.
C. gnaphalii. Rare.
Anarta myrtilli. Common.
Heliaca tenebrata. Common.

- Pyrrhia umbra.* Uncommon.
Heliothis dipsacea. Rare.
H. peltigera. Uncommon.
Hapalotis fasciana. Fairly common.
Hydrelia uncula. Uncommon.
Rivula sericealis. Uncommon.
Prothymia viridaria. Common.

GONOPTERINÆ.

- Scoliopteryx libatrix.* Common.

QUADRIFINÆ.

- Plusia moneta.* Fairly common.
P. chrysitis. Common.
P. festucee. Uncommon.
P. iota. Fairly common.
P. pulchrina. Uncommon.
P. gamma. Common.
Abrostola triplasia. Uncommon.
A. tripartita. Uncommon.
Euclidia mi. Common.
E. glyphica. Common.
Catocala nupta. Fairly common.
Toxocampa pastinum. Uncommon.

HYPENINÆ.

- Laspeyria flexula.* Uncommon.
Zanclognatha tarsipennalis. Common.
Z. grisealis. Common.
Madopa salicalis. Not recorded for fifty years.
Pechipogon barbalis. Fairly common.
Bomolocha fontis. Fairly common.
Hypena proboscidalis. Common.
H. rostralis. Fairly common.
Hypenodes tenuialis. Uncommon.
H. costæstrigalis. Uncommon.

BREPHIDÆ.

- Brephos parthenias.* Common.

GEOMETRIDÆ.

GEOMETRINÆ.

- Pseudoterypa pruinata.* Common.
Geometra papilionaria. Uncommon.
Euchloris pustulata. Rare.

- Iodis lactearia.* Common.
Hemithea strigata. Common.

ACIDALIINÆ.

- Hyria muricata.* Rare.
Acidalia virgularia. Fairly common.
A. straminata. Fairly common.
A. interjectaria. Fairly common.
A. subsericeata. Fairly common.
A. inornata. Fairly common.
A. aversata. Fairly common.
A. bisetata. Fairly common.
A. dimidiata. Fairly common.
A. trigeminata. Fairly common.
A. ornata. Uncommon.
A. remutaria. Common.
A. marginepunctata. Uncommon.
A. immutata. Fairly common.
A. imitaria. Common.
A. fumata. Uncommon.
Ania emarginata. Fairly common.
Timandra amata. Fairly common.
Ephyra porata. Fairly common.
E. punctaria. Fairly common.
E. linearia. Fairly common.
E. annulata. Uncommon.
E. orbicularia. Uncommon.
E. pendularia. Fairly common.

HYDRIOMENIDÆ.

- Ortholitha plumbaria.* Uncommon.
O. cervinata. Uncommon.
O. limitata. Common.
Minoa murinata. Uncommon.
Odezia atrata. Uncommon.
Aniatis plagiata. Common.
Chesias spartiata. Common.
C. rufata. Fairly common.
Lobophora carpinata. Common.
L. viretata. Fairly common.
L. halterata. Uncommon.
L. sexualisata. Uncommon.
Cheimatobia brumata. Common.
C. boreata. Fairly common.
Triphosa dubitata. Uncommon.
Eucosmia certata. Uncommon.

- Eucosmia undulata*. Uncommon.
Scotosia rhamnata. Uncommon.
Eustroma silaceata. Fairly common.
Lygris prunata. Fairly common.
L. testata. Fairly common.
L. associata. Common.
Cidaria pyraliata. Fairly common.
C. fulvata. Common.
C. corylata. Common.
C. truncata. Common.
C. immanata. Common.
C. siterata. Common.
C. miata. Common.
Thera variata. Common.
T. firmata. Local, but fairly plentiful.
Lampropteryx suffumata. Fairly common.
Coremia quadrifasciaria. Uncommon.
C. unidentaria. Common.
C. ferrugata. Common.
C. designata. Common.
Amoeba viridaria. Fairly common.
Melanhydris multistrigaria. Common.
M. didymata. Fairly common.
Oporabia dilutata. Common.
Xanthorhoë montanata. Common.
X. fluctuata. Common.
X. rivata. Common.
X. sociata. Common.
X. unangulata. Common.
Euphyia picata. Uncommon.
Eulype hastata. Uncommon.
Mesoleuca albicillata. Fairly common.
M. ocellata. Common.
M. bicolorata. Uncommon.
Melanthia procellata. Uncommon.
Perizoma affinitata. Uncommon.
P. alchemillata. Fairly common.
P. flavofasciata = decolorata. Fairly common.
P. albulata. Common.
Camptogramma bilineata. Common.
Hydriomena furcata = sordidata. Common.
H. impluviata. Fairly common.
H. ruberata. Fairly common.
Anticlea badiata. Common.
A. rubidata. Fairly common.
A. nigrofasciaria. Common.

- Euchæca obliterata.* Common.
Asthena candidata. Common.
A. luteata. Common.
A. testaceata. Fairly common.
Eupithecia oblongata. Common.
E. pulchellata. Common.
E. linariata. Fairly common.
E. irriguata. Uncommon.
E. pusillata. Fairly common.
E. indigata. Fairly common.
E. venosata. Uncommon.
E. assimilata. Fairly common.
E. goosensata = minutata. Fairly common.
E. albipunctata. Uncommon.
E. vulgata. Common.
E. virgaureata. Uncommon.
E. trisignaria. Uncommon.
E. lariciata. Fairly common.
E. castigata. Common.
E. succenturiata. Fairly common.
E. subfulvata. Fairly common.
E. haworthiata. Uncommon.
E. plumbeolata. Fairly common.
E. tenuiata. Uncommon.
E. fraxinata. Uncommon.
E. nanata. Common.
E. abbreviata. Common.
Gymnoscelis pumilata. Common among gorse.
Eucymatoge togata. Uncommon.
Chloroclystis rectangulata. Common.
Phibalapteryx vitalbata. Uncommon.
Cænocalpe vittata. Uncommon.
Percnopylota fluvialata. Uncommon.

BOARMINÆ.

- Abrazas sylvata.* Uncommon.
A. grossulariata. Common.
Lomaspilis marginata. Common.
Ligdia adustata. Fairly common.
Bapta bimaculata. Uncommon.
B. tenerata. Common.
Cabera pusaria. Common.
C. exanthemata. Common.
Numeria pulveraria. Uncommon.
Ellopiæ prosapiaria. Fairly common; see Introduction.
Metrocampe margaritaria. Common.

- Ennomos quercinaria*. Common.
E. abniaria. Common.
E. erosaria. Uncommon.
Selenia bilunaria. Common.
S. lunaria. Uncommon.
S. tetralunaria. Common.
Hygrochroa syringaria. Uncommon.
Gonodontis bidentata. Common.
Himera pennaria. Common.
Crocallis elinguaris. Common.
Angerona prunaria. Uncommon.
Ourapteryx sambucaria. Common.
Eurymene dolobraria. Common.
Opisthograptis luteolata. Common.
Epione apiciaria. Uncommon.
E. advenaria. Local, but plentiful; see Introduction.
Venilia maculata. Common.
Semiothisa liturata. Fairly common.
Hybernia rupicaprararia. Common.
H. leucophaea. Common.
H. aurantiaria. Common.
H. marginaria. Common.
H. defoliaria. Common.
Anisopteryx æscularia. Common.
Phigalia pendaria. Common.
Apocheima hispidaria. Fairly common.
Pachys strataria. Common.
P. betularia. Fairly common.
Hemerophila abruptaria. Common.
Boarmia gemmaria. Common.
B. abietaria. Uncommon.
B. repandata. Common; see Introduction.
B. roboraria. Fairly common.
B. consortaria. Fairly common.
Cleora lichenaria. Uncommon.
Tephrosia bistortata. Common.
T. crepuscularia. Common.
T. luridata. Uncommon.
T. consonaria. Common.
T. punctularia. Common.
Pachycnema hippocastanaria. Common.
Gnophos obscurata. Uncommon.
Ematurga atomaria. Common.
Bupalus piniarius. Common.
Selidosema ericetaria. Uncommon.
Thamnonoma waucaria. Common.

- Loxogramma petrarica*. Common.
Chiasmia clathrata. Common.
Scodiona fagaria = *belgiaria*. Uncommon.
Aspilates ochrearia. Uncommon.
Perconia strigillaria. Common.

ZYGÆNIDÆ.

- Zygæna trifolii*. Common; see Introduction.
Z. filipendulæ. Common.
Ino statices. Uncommon.

COCHLIDIDÆ.

- Cochlidion limacodes*. Uncommon.

COSSIDÆ.

- Cossus cossus* = *liquiperda*. Uncommon.
Zeuzera pyrina. Uncommon.

SESIIDÆ.

- Trochilium crabroniforme*. Uncommon.
Sesia spheciformis. Found where alders occur.
S. tipuliformis. Seldom seen, but probably common.
S. vespiiformis. Seldom seen, but probably common.
S. myopæformis. Probably commoner than supposed.
S. culiciformis. Fairly common.

HEPIALIDÆ.

- Hepialus humuli*. Common.
H. sylvinus. Fairly common.
H. fusconebulosus = *velleda*. Fairly common.
H. lupulinus. Common.
H. hectus. Fairly common.

PYRALIDINA.

PHYCITIDÆ.

- Salebria palumbella*.
S. fusca = *rhenella*.
Hypochalcia ahenella.
Phycita spissicella = *roborella*.
Plodia interpunctella.
Ephestia kuehniella.
E. etutella.
Eurhodope advenella.
Cryptoblabes bistriga.
Acrobasis consociella.
A. tumidella.

GALLERIADÆ.

- Meliphora grisella* = *alveariella*.
Aphomia sociella = *colonella*.
Galleria mellonella.

CRAMBIDÆ.

- Cræmbus hamellus*.
C. pascuellus.
C. silvellus.
C. dumetellus.
C. pratellus.
C. culmellus.
C. hortuellus.
C. falsellus.
C. pinellus.
C. latistrius.
C. perlellus.
C. inquatellus.
C. geniculus.
C. tristellus.
C. selasellus.

PYRAUSTIDÆ.

- Acentropus niveus*.
Donacaula mucronella.
Nymphula stratiotalis.
N. stagnalis.
Hydrocampa nymphæalis.
Notarcha ruralis.
Eurrhyncha urticæalis.
Perinephela lancealis.
Phlyctænia crocealis.
P. ferrugalis.
P. prunalis.
P. fuscalis.
P. sambucalis.
Nomophila noctuella = *hybridalis*.
Pyrausta funebris = *octomaculalis*.
P. purpuralis and ab. *ostrinalis*.
P. olivalis.
P. asinatis.
Microstega pandalis.
Loxostege verticalis = *cinctalis*.
L. palealis.
Scoparia resinæalis.
S. angustalis.
S. frequentella.
S. truncicolella.

Scoparia pallidalis.
S. dubitalis.
S. ambigualis.
S. basistrigalis.
Energestis straminealis.
Mesographe forficalis.

PYRALIDÆ.

Endotricha flammealis.
Pyralis glaucinalis.
P. farinalis.
Aglossa pinguinalis.

PTEROPHORIDÆ.

Trichoptilus paludum.
Platyptilia cosmodactyla = punctidactyla.
P. acanthodactyla.
P. bertrami.
P. ochrodactyla.
Pterophorus pentedactylus.
Alucita monodactyla = pterodactyla.
A. tephrodactyla.
A. lithodactyla.
Stenoptilia pterodactyla = fuscodactyla.
S. zophodactyla = loewii.
Orneodes hexadactyla = polydactyla.

TORTRICINA.

EPIBLEMIDÆ.

Lobesia permixtana.
Bactra lanceolata.
Eucosma semifasciana.
E. corticana = picana.
E. betuletana.
E. capreana.
E. sororeculana = praelongana.
E. variegana = cynosbatana.
E. ochroleucana.
E. pruniana.
E. oblongana = similana.
E. sellana.
E. sauciana.
E. carbonana.
E. nigricostana.
E. profundana.

- Eucosma arcuana.*
E. purpurana.
E. rivulana = conchana.
E. micana = olivana.
E. urticana.
E. lacumana.
E. striana.
E. ericetana.
E. antiquana.
Rhyacionia (Retinia) buoliana.
R. pinivorana.
R. turionana.
Enarmonia cruciana = angustana.
E. quadrana.
E. nanana.
E. vacciniانا.
E. corticana.
Tmetocera laricana.
T. ocellana.
Endemis nævana = geminana.
Ancyli derasana.
A. myrtiliana.
A. sicilana.
A. unguicana.
A. uncana.
A. biarcuana.
A. diminutana.
A. mitterbacheriana.
A. lactana = ramana.
Gypsonoma dealbana.
Cydia obtusana.
C. trimaculana.
C. ramana = paykulliana.
C. achatana.
C. nigromaculana.
Notocelia udmanniana.
N. rosæcolana.
N. trimaculana = suffusana.
N. roborana.
N. tetragonana.
Epiblema tripunctana.
E. penkleriana.
E. immundana.
E. tetraquetrana.
E. similana = bimaculana.
E. pflugiana = scutulana.

- Epiblema trigeminana.*
E. brunvichiana.
E. bilunana.
E. solandriana.
E. semifuscana = piceana.
E. sordidana = stabilana.
E. cana.
E. scopoliana.
Hemimene alpinana.
H. sequana.
H. simpliciana.
H. consortana.
H. acuminatana.
H. plumbagana.
Pammene nitidana = redimitana.
P. germanana = puncticostana.
P. rhediana.
P. splendidulana.
P. argyran.
P. spiniana.
P. populana = ephippiana.
Laspeyresia roseticolana.
L. rufillana.
L. servillana.
L. perlepidana.
L. compositana.
L. nigricana = pisana.
L. coniferana.
L. ulicetana.
Carpocapsa splendana.
C. juliana.
C. grossana.
Epinotia aurana = mediana.
E. albersana.
E. hypericana.

TORTRICIDÆ.

- Rhacodia caudana.*
Acalla cristana.
A. hastiana.
A. sponsana = favillaccana.
A. literana.
A. mixtana.
A. logiana = tristana.
A. variegana.
A. comparana.
A. contaminana.

- Acalla ferrugana.*
A. aspersana.
A. holmiana.
Epagoge grotiana.
Capnia favillaceana = ochraceana.
Cacæcia piceana.
C. podana.
C. cratægana = roborana.
C. xylosteanæ.
C. rosana.
C. sorbiana.
C. unifasciana.
C. lecheana.
C. misculana.
Pandemis corylana.
P. ribeana.
P. heparana.
P. cinnamomeana.
Tortrix forskaleana.
T. bergmanniana.
T. bifasciana = andoninana.
T. ministrana.
T. conwayana.
T. loeflingiana.
T. viridana.
T. viburnana.
T. forsterana = adjunctana.
T. politana = lepidana.
T. chrysanthemana = alternana.
T. virgaureana.
T. nubilana.
T. osseana = pratana.
Cheimatophila tortricella = hyemana.

PHALONIADÆ.

- Phalonia zephyrana = dubrisana.*
P. enicana.
P. alcella = tesserana.
P. manniana.
P. rupicola.
P. subroseana.
P. implicitana.
P. nana.
P. pallidana = albicapitana.
P. curvistrigana.

Chlidonia baumanniana.
Eupacilia maculosana.
Anisotenia ulmana.
Clysia ambiguana.
Euxanthis ceneana.
E. zygana.
E. hamana.
Hysterosia inopiana.

TINEINA.
GELECHIADÆ.

Parasia lapella.
P. metzneriella.
Aristotelia atrella.
A. bifractella.
A. stipella = næviferella.
A. ericinella.
A. tenebrella.
Stenolechia albiceps.
Ptocheusa inopella = paupella.
Epitheetis mouffetella.
Anacamptis vorticella.
A. ligulella.
Xenolechia humeralis = lyellella.
X. scellella = alella.
Gelechia basaltinella.
G. umbrosella.
G. similella.
G. senectella.
G. terrella.
G. acuminatella.
G. knagysiella.
G. maculella.
G. tricolorella.
G. costella.
G. scriptella.
G. notatella.
G. triparella.
G. sororculella.
G. rhombella.
G. lentiginosella.
G. ericetella.
Tachyptilia populella.
Psoricoptera gibbosella.
Brachmia gerronella.
Recurvaria cinerella.

Hypsolophus fasciellus.
Chelaria huebnerella.

ŒCOPHORIDÆ.

Carcina quercana.
Pleurota bicostella.
Cheimabacche fagella.
C. phryganella.
Semioscopis avellanella.
S. steinkellneriana.
Depressaria costosa.
D. umbellana.
D. assimilella.
D. atomella = scopariella.
D. liturella.
D. arenella.
D. propinquella.
D. subpropinquella and ab. *rhodochrella.*
D. carduella.
D. hypericella.
D. ocellana.
D. conterminella.
D. yeatiana.
D. alstromeriana.
D. angelicella.
D. purpurea = vacciniella.
D. ciliella.
D. applana.
D. badiella.
D. olerella.
D. albipunctella.
D. chærophylli.
D. ultimella.
D. pimpinella.
D. pulcherrimella.
D. heracleana.
D. nervosa.
D. discipunctella.
Harpella geoffrella.
Œcophora sulphurella.
Acompsia minutella.
A. tripuncta = trisignella.
A. tinctella.
A. panzerella = subochreella.
A. flavifrontella.
A. pseudopretella.

Acompsia fuscescens.
Amphisbatis incongruella.

ELACHISTIDÆ.

Coleophora fabriciella.
C. albitarsella.
C. alcyonipennella.
C. ahenella.
C. fuscocuprella.
C. lutipennella.
C. limosipennella.
C. badripennella.
C. solitariella.
C. olivacella.
C. juncicolella.
C. wockeella.
C. livella.
C. palliatella.
C. discordella.
C. albicosta.
C. nutantella = inflatae.
C. therinella.
C. graminicolella.
C. argentula.
C. virgaureæ.
C. laripennella.
C. murinipennella.
Asychna modestella.
Batrachedra pinicolella.
Elachista cinereopunctella.
E. magnificella.
E. gleichenella.
E. luticomella.
E. atricomella.
E. humilis = occultella.
E. gangabella.
E. zonariella.
E. negerlella.
E. biatomella.
E. triatomea.
E. rufocinerea.
Pancalia leuvenhœkella = latreillella.
Chrysoclysta aurifrontella.
C. atra = hellerella.
C. rhamnifella.
Mompha schrankella.

Momypha raschkiella.
M. lacteella.
M. decorella.
M. subbistrigella.
Heliozela sericeella.
H. resplendella.
Perittia obscuripunctella.
Scythris grandipennis.
S. senescens.
Endrosis lacteella = fenestrella.
Cataplectica fulviguttella = flavimaculella.
Phaulernis dentella.
Schreckensteinia festaliella.
Epermenia illigerella.
E. chærophyllella.

PLUTELLIDÆ.

Hyponomeuta cognatellus.
H. plumbellus.
H. vigintipunctatus.
Cerostoma macronella = caudella.
C. xylostella = harpella.
C. nemorella.
C. scabrella.
C. lucella.
C. sylwella.
C. radiatella.
C. sequella.
C. vittella.
Plutella porrectella.
P. cruciferarum.
Eidophasia messingiella.
Glyphipteryx fuscoviridella.
G. thrasonella.
G. haworthella.
G. oculatella.
Simæthis pariana.
S. fabriciana.

TINEIDÆ.

Nepticula pygmæella.
N. marginecolella.
N. betulicolella.
N. argentipedella.
N. septembrella.
N. intimella.
N. subbimaculella.
N. pulverosella.

Trifurcula atrifrontella.
T. immundella.
Opostega salaciella.
O. crepusculella.
Bucculatrix frangulella.
B. boyerella.
B. cidarella.
B. ulmella.
B. crataegella.
B. demaryella.
Lithocolletis roboris.
L. hortella.
L. sybrella.
L. cramerella.
L. heegeriella.
L. lantella.
L. nigrescentella = bremsiella.
L. spinolella.
L. cavella.
L. torminella.
L. ulicicolella.
L. scopariella.
L. quercifoliella.
L. messaniella.
L. viminiella.
L. fröhlichiiella.
L. schreberella.
L. emberizipennella.
L. comparella.
Ornix betulæ.
O. scoticella.
O. torquilella.
Coriscium sulphurellum.
C. cuculipennellum.
C. brongnardiellum.
Gracilaria alchimiella = swederella.
G. populetorum.
G. elongella = stramineella.
G. phasianipennella.
G. ornissella.
Leucoptera wailesella.
Phyllocnistis salignella.
P. suffusella.
Bedellia sommulentella.
Tischeria complanella.
Ocnerostoma pinariella.

Cedestis farinatella.
Argyresthia dilectella.
A. andreggiella.
A. pygmæella.
A. cornella = curvella.
A. resinella.
A. mendicella.
A. semifuscella.
A. conjugella.
A. spiniella.
A. semitestaceella.
Swammerdammia combinella.
S. cæsiella = spiniella.
Ræsterstammia erzlebenella.
Acrolepia granitella.
Fumea intermediella = nitidella.
Taleporia pseudobombycella.
Diptodoma marginepunctella.
Ochsenheimeria birdella.
Incurvaria pectinea.
I. muscaletta.
Lampronia tenuicornis.
L. pubicornis.
L. quadripunctella.
L. luzella.
L. prælatella.
L. rubiella.
Tineola biselliella.
Phylloporia bistrigella.
Monopis ferruginella.
M. rusticella.
Trichophaga tapetiella.
Tinea capitella.
T. æhlmanniella.
T. fulvimitrella.
T. arcella.
T. parasitella.
T. granella.
T. cloacella = ruricoletta.
T. albipunctella.
T. nigripunctella.
T. fuscipunctella.
T. pellionella.
T. lapella.
T. semifulvella.
Nemophora swammerdamella.

Nemophora schwarziella.

N. metaxella.

Adela fibulella.

A. rufimitrella.

A. crasella.

A. degeerella.

A. viridella.

Nemotois minimellus.

N. cupriacellus.

• **MICROPTERYGIDÆ.**

Micropteryx sparmannella.

M. salopiella.

M. purpurella.

M. semipurpurella.

M. unimaculella.

M. subpurpurella.

Eriocephala thunbergella.

E. aureatella = allionella.

E. mansuetella.

E. aruncella = seppella.

E. calthella.