



TRANSACTIONS

OF THE

Norfolk & Norwich

NATURALISTS' SOCIETY;

PRESENTED TO THE MEMBERS FOR

1873—4.

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SUPPLEMENT.

NORFOLK LEPIDOPTERA.

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TRANSACTIONS OF THE NORFOLK AND NORWICH NATURALISTS'  
SOCIETY, 1873—4.



FAUNA AND FLORA OF NORFOLK.

PART V. LEPIDOPTERA.

BY CHARLES G. BARRETT.

*Read 24th February, 1874.* *X 203*

FOR four years I have been engaged in collecting, from every reliable source within my reach, information as to the species of Lepidoptera known to be found in the County of Norfolk, and now that my removal from the district deprives me of the opportunity of adding to the list by my own collecting, I think it advisable to lay the results before the Society, especially as by the kindness of the Entomologists of the county they are of a highly satisfactory nature.

As the list is long and the localities numerous, I have not thought it necessary nor even advisable to append the name of the gentleman by whom captured or authenticated, to every species or locality, but to state here the localities for which each Entomologist has made himself responsible, and at the same time to thank them all most heartily for the cordial manner in which they have co-operated with me in the endeavour to make the list complete, and the kindness with which many of them have acceded to my request to be allowed to examine and decide upon what I have considered to be doubtful species. I have unfortunately, however, been compelled to exclude a few species which may *possibly* be found in the county, for want of opportunity of authenticating

them, since it is far better to exclude one or two such species, than to run the risk of including any which do not belong at all to the district. The former error is readily repaired, but the latter by no means so easily.

I am indebted to Lord Walsingham for a list of seven hundred and fifty species collected by him in the parishes of Merton, Stanford, Sturston, Tomston, and Tottington, on the Merton estate, (all of which I have therefore included under the name of "Merton,") and a few at Brandon, Hevingham, and Holkham, as well as thirty local and scarce species taken by his collector, Mr. Eedle, at Horning; to Mr. W. M. Crowfoot, of Beeeles, for a list of five hundred species, taken at Aldeby, Broome, Harleston, Ditchingham, Kirby Cane, Gillingham, Geldeston, Ringsfield, Raveningham, Headly, Holt, Barton Turf, and Yarmouth, as well as at Beeeles on the Norfolk side; to the Rev. T. H. Marriott, of Wiekham Market, Suffolk, for a list of species taken by him at Thetford, Croxton, Narborough, Shadwell, and Hoveton, during his late residence at Croxton; to the Rev. H. Williams, of Croxton, for a list of three hundred species taken in the neighbourhood of Thetford; to the Rev. T. H. Marsh, of Cawston, for a list of five hundred species taken at Cawston, Foulsham, Wood Dalling, Cromer, Booton, Horsford, Blofield, and Diss; to Mr. Frank Norgate, of Sparham Rectory, for upwards of one hundred local and interesting species taken at Sparham, Dilham, Hethersett, Potter Heigham, Booton, Hockering, Cawston, Stody, Braneaster, Swanton Morley, Whitwell, Heydon, Swannington, Haveringland, Sall, Felthorpe, Ugate, Horning, and Foxley; to Mr. Frederick Bond, of London, for forty local species from Foxley, and a few rarities from Yarmouth; to Messrs. E. L. King, and E. A. Atmore, of Lynn, for over three hundred species collected by them at Lynn, Feltwell, Mintlyn, Wootton, Barton Bendish, Bawsey, Harpley, Castleacre, Wolferton, Rising, Middleton, Roydon, Ringstead, Northwold, Hingham, Clenehwarton, Gaywood, and Leziate; to the Rev. J. Landy Browne, of Norwich, for species taken by him at Norwich, Caistor, Runeton, Dersingham, Hethel, Forncett, St. Faith's, Horning, and Wood Norton; to Mr. A. B. Farn, of London, for three hundred species taken at Horning and Ranworth; to Mr. W. R. Jeffrey, of Saffron Walden, for a few captures at Brandon; to Mr. R. E. Brameld, of Nottingham, for some

taken at Hunstanton; to Mr. F. D. Wheeler, of Norwich and Clare College, Cambridge, for captures by him at Norwich, Stratton Strawless, Buxton, Istead, Barton Turf, Thurn, Whitesby, Stalham, Horsey, Yarmouth, and Reedham; to the late Mr. P. H. Dicken, formerly of Norwich, for a list of his captures at Norwich, Surlingham, and Yarmouth; and to Mr. J. B. Bridgman, of Norwich, for a few species taken at Norwich and Woodbastwick.

In addition to this I have been kindly allowed to examine and make memoranda of the collections of Messrs. T. E. Gunn, Hickling, Perry, and Amos, of Norwich, of species collected by them, and by Mr. Sayer, formerly of Neatishead, at Norwich, Horsford, Stratton Strawless, Beeston St. Andrew, Hoveton, Neatishead, Istead, Cringleford, Ketteringham, Kimberly, Costessey, etc., and have myself collected a considerable number of species in and around the City of Norwich, and at Surlingham, Brundall, Yarmouth, Caistor, Ranworth, Horning, Barton Turf, Coltishall, Great Plumstead, Newton St. Faith's, Costessey, Ringland, Easton, Ketteringham, and Brandon.

I have also availed myself of information contained in the following works:—

Haworth's "Lepidoptera Britannica," (1803 to 1829)—which records the captures of the Revs. J. Burrell, T. Skrimshire, and others, in Norfolk.

Curtis's "British Entomology," (1825 to 1840)—which records a few interesting species.

Stephens's "Illustrations of British Entomology," (1827 to 1835)—for captures at Beachamwell, Halvergate, and South Creake.

Wood's "Index Entomologicus," (1833 to 1839.)

C. J. and J. Paget's "History of Yarmouth," (1834)—for species recorded by them at Yarmouth, Caistor, Oby, Thurn, and other places in Norfolk,—the majority of their localities being in Suffolk.

Stainton's "Manual of British Butterflies and Moths," (1857,) and the "Entomologist's Annuals," (1855 to 1873,) edited by the same author.

In these works a very large number of notices of species taken in Norfolk may be found, most of them doubtless authentic, but a few highly apocryphal.

There is also in the "Huddersfield Naturalist," for 1864—5, a list of over seven hundred species, by Mr. T. E. Gunn, of Norwich, recorded as having been taken in Norfolk, and I wish to acknowledge my obligation to Mr. Gunn for the ready and obliging manner in which he has assisted me with information as to the sources from which his list was compiled, and the localities, as far as known, in which the species were taken, and as I am satisfied that he was grossly and intentionally deceived by an interested collector as to the occurrence of at least one hundred and fifty species in the county, I have preferred to ignore this list, and substitute for it such information as he was able to substantiate.

As it is necessary in a list of this kind to have some definite boundary, I have felt compelled to omit a few species which are known to occur at Brandon, and other places on the borders of the county, when they have not actually been taken within its limits.

The arrangement which I have followed is that of M. Guenée, as published in Mr. Henry Doubleday's "Synonymic List of British Lepidoptera," and in many cases in which corrections or alterations in nomenclature have been made, I have appended the synonym in brackets to assist identification.

Several species which have been recorded erroneously in the county are also placed in brackets to distinguish them from those truly forming a part of the list.

A LIST OF THE LEPIDOPTERA KNOWN TO OCCUR  
IN NORFOLK.

DIURNI.

- PAPILIO MACHAON. Linn. Found in all the fens of the rivers  
Yare and Bure, and their tributaries, where its  
larva feeds on marsh fennel (*Peucedanum  
palustre*) and other *Umbelliferae*. Its range in  
this country is gradually becoming more re-  
stricted, from the drainage of the fens of Cam-  
bridge and Huntingdonshire, and it seems  
probable that in a few years, it may have  
ceased to be found in any numbers elsewhere  
than in our Norfolk fens. Here, however,  
from the nature and extent of our fens, and  
their situation along the river courses, and from  
the strictness with which many of them are  
preserved, there is reason to hope, that this  
splendid species may survive till a very distant  
period.
- LEUCOPHASIA SINAPIS. Linn. Wormegay. Two specimens taken  
in the Rainbow wood, reported by Mr. Atmore.
- PIERIS CRATEGI. Linn. Curtis in his "British Entomology,"  
states, that "it has been taken in Norfolk."  
If this is correct it is probably long extinct.
- „ BRASSICÆ. Linn. Abundant everywhere.
- „ RAPE. Linn. Abundant everywhere.
- „ NAPL. Linn. Abundant everywhere.
- ANTHOCHARIS CARDAMINES. Linn. Of general occurrence.
- GONEPTERYX RHAMNI. Linn. Of general occurrence.
- COLIAS EDUSA. Fab. Of general occurrence, but irregular in its  
appearance.
- „ „ Var. HELICE, Hüb. Thetford, Blofield; rare.
- „ HYALE. Linn. Norwich, Horsford, Broome, Aldeby,  
Merton, Thetford, Halvergate, Potter Heigham.  
Very uncertain in its appearance; common in  
1868.

- ARGYNNIS PAPHIA. Linn. Widely distributed, but not common in this county.
- „ AGLAIA. Linn. Caistor, near Yarmouth, Whitesley; excessively local.
- „ ADIPPE. Fab. Horsford, Stratton Strawless, Cawston, Runcton, Middleton, Tindall wood Ditchingham; local.
- „ LATHONIA. Linn. Very rare; one specimen was taken at Booton by Mr. F. Alderton, and one at Plumstead by Mr. Perry. (This last I have seen.) Mr. King reports one from Beachamwell; Curtis and Stephens both record the species from Halvergate, and Paget, a specimen taken by Capt. Chawner at Caistor rails.
- „ EUPHROSYNE. Linn. Horsford, Stratton Strawless, Cawston, Hockering, Tindall wood Ditchingham; local.
- „ SELENE. Fab. Horsford, Stratton Strawless, Cawston, Hoveton St. John, Hethel, Wootton; local.
- MELITÆA ARTEMIS. Fab. Norwich, St. Faith's, Cawston, Horning, Aldeby, Beachamwell; in marshy meadows.
- VANESSA C-ALBUM. Linn. Very rare in this county. The Rev. W. F. Welch informed Lord Walsingham that he saw a specimen in his garden at Stradsett, in October, 1858; and took one in the same place in September, 1861; and the Rev. J. W. Colvin met with one, singularly enough, also in the rectory garden at Yarmouth. Mr. Atmore of Lynn, also reports a specimen taken by Mr. W. Pridgeon, jun., at Walpole.
- „ URTICÆ. Linn. Abundant everywhere.
- „ POLYCHLOROS. Linn. Norwich, Ranworth, Gillingham, Merton, Thetford, Sparham, Cawston; formerly common, but scarcer for some years, until the last summer (1873,) when it again appeared commonly.
- ANTIOPA. Linn. Usually a great rarity. Recorded from Gillingham, Marsham, and Horsham; Yarmouth in 1834, by Paget; Sparham, two

specimens, in 1868, by Mr. F. Norgate; and one at Buxton, in 1871, by Mr. F. D. Wheeler. But in August, 1872, it appeared in all parts of the county, and was almost common in its north-east corner. Details are published in the Transactions of this Society for 1872—3.

- VANESSA IO. Linn. Generally common.
- „ ATALANTA. Linn. Generally common.
- „ CARDUI. Linn. Generally common, but irregular in its appearances.
- APATURA IRIS. Linn. Foulsham, Dersingham, Foxley Wood; rare in this county. Mr. Athow tells me that it was found many years ago at Whitlingham.
- ARGE GALATHEA. Linn. Found by Mr. W. M. Crowfoot, at Kirby Cane, but shifting from one place to another each season. Curtis also records it in Norfolk.
- SATYRUS ÆGERIA. Linn. Norwich, Merton, Thetford, Sparham, Ditchingham; not very common in the county.
- „ MEGERA. Linn. Abundant everywhere.
- „ SEMELE. Linn. Generally common on heaths and coast sand-hills.
- „ JANIRA. Linn. Abundant everywhere.
- „ TITHONUS. Linn. Abundant everywhere.
- „ HYPERANTHUS. Linn. Plumstead, Stratton Strawless, Hethersett, Merton, Thetford, Beccles, Sparham, Lynn.
- [CHORTOBIUS DAVUS. Fab.] Recorded by Stephens, (Illust. p. 68,) but doubtless in error.
- „ PAMPHILUS. Linn. Abundant everywhere.
- THECLA RUBI. Linn. Norwich, St. Faith's, Swannington, Cawston, Stody, Broome Heath, Merton, Thetford.
- „ QUERCUS. Linn. Merton, Broome, Dersingham, Thetford, Sparham, Barton Bendish, Oby, Ketteringham, Ranworth; among oaks.
- W-ALBUM. Ill. I introduce this species with hesitation. In August, 1872, I met with a number of what I believe to have been *w-album* flying about and settling on the top of a chestnut tree at

Newton St. Faith's, but was unable to obtain a specimen.

- [THECLA SPINI.] Recorded by Stephens, (Illust. p. 78,) thus:—  
 "Last July, (1827,) a specimen was captured in Norfolk by Mr. J. Sparshall, F.L.S." When examining the collection of Mr. Sparshall now in the Norwich Museum, some years ago, I found a specimen labelled *spini*, which is certainly not the true *Thecla spini*, Esp. Mr. Doubleday tells me, that he believes it to be a species that was taken plentifully by his late brother in North America, and that it was placed in Mr. Sparshall's collection by mistake. There is no authentic record of the occurrence of this species, or of the true *Thecla spini* in the British Islands.
- „ BETULÆ. Linn. Curtis (Brit. Ent. 264) records this species as having been taken in Norfolk, and the Rev. T. H. Marsh has found it at Sall, on elm. Probably very rare in the county.
- [POLYOMMATUS DISPAR. Haw. HIPPOTHOE. Linn.] Stephens (Illust. 82) gives Norfolk as one of the localities for this species, but there is no reliable record of its occurrence here, and he was probably misinformed.
- „ PHLÆAS. Linn. Common everywhere.
- LYCÆNA ÆGON. Bork. On all heaths.
- „ AGESTIS. SCHIFF. Norwich, Lynn, Hunstanton, Merton, Thetford, Broome Heath; common.
- „ ALEXIS. Hüb. (DORYLAS of Paget) Common everywhere.
- „ CORYDON. Fab. Lynn, Hunstanton, Snettisham, Ringstead Downs; very local.
- „ ACIS. SCHIFF. Under the name of CYMON, Haworth records it (Lep. Brit. 48) as taken by his friend the Rev. J. Burrell, in Norfolk, and Stephens says, "Found in chalky districts in Norfolk." Probably this was an error, but *acis* has disappeared from so many localities in which it was formerly known to be common, that it *may*

- have been found also in this county fifty years ago.
- LYCENA ALSUS. Fab. South Creake, Cromer, Ketteringham (?) scarce.
- „ ARGIOLUS. Linn. Cawston, Booton, Thetford, Broome, Gillingham; not common.
- SYRICHTHUS ALVEOLUS. Hüb. Woodton, Tindall wood Ditchingham, Cawston, Horning, Ketteringham; local.
- THANAOS TAGES. Linn. Ditchingham, Ketteringham, Cawston; also recorded by Haworth and Stephens.
- HESPERIA SYLVANUS. Fab. Norwich, St. Faith's, Stratton Strawless, Cawston, Ranworth, Aldeby, Foxley; common in woods.
- „ LINEA. Fab. Norwich, Stratton Strawless, Cawston, Bawsey, Snettisham, Merton, Thetford, Broome.

## NOCTURNI.

- SMERINTHUS OCELLATUS. Linn. Of general occurrence, the larva frequently found on broad as well as narrow-leaved *Salices*, especially in the fens.
- „ POPULI. Linn. Found everywhere, the larva also feeding occasionally on broad-leaved willows.
- „ TILIE. Linn. Norwich, Raveningham, Merton, Thetford, Lynn, Sparham, Cawston, Horning; not common.
- ACHERONTIA ATROPOS. Linn. Found in all parts of the county, especially in the larva state, but uncertain in its times of appearance. Mr. T. Gunn notes the finding of a handsome brown variety of the larva at Norwich.
- SPHINX CONVULVULI. Linn. Also found occasionally in all parts of the county. Mr. T. E. Gunn records (*Huddersfield Nat.* vol. 1, p. 373,) the discovery of a larva of this species in the county, and describes it as "of a uniform bright green, with brown dots on the back, and oblique yellow stripes on the sides." This larva, unlike that of the previous species, is rarely found with us.
- „ LIGUSTRI. Linn. Common everywhere.

- DEILEPHILA GALII. W.V. Very rare. Has been found at Yarmouth, and at Gillingham, near Beccles.
- „ LIVORNICA. Esp. Recorded by Stephens (Illust. vol. 1, p. 127,) as occurring in Norfolk, but without locality.
- CHÆROCAMPA CELERIO. Linn. Also recorded by Stephens, without locality. I know of no recent capture of these two rare species in the county.
- „ PORCELLUS. Linn. Norwich, Merton, Thetford, Broome, Yarmouth, Cawston, Ketteringham, Horning.
- „ ELPENOR. Linn. Of general occurrence. Especially fond of the flowers of *Iris pseud-acorus* (yellow-flag.)
- [ „ NERII. Linn.] A specimen of this splendid rarity was obtained at Southtown, by the Rev. J. W. Colvin, of Yarmouth, in August, 1872. Its occurrence for the first time so close to the border of the county seems worthy of being noticed here.
- MACROGLOSSA STELLATARUM. Linn. Of general occurrence, common on the coast sand-hills.
- „ FUCIFORMIS. Linn. Merton, Horsford, Heydon, Cawston, Briston; not common.
- „ BOMBILIFORMIS. Esp. Woodbastwick, Cawston, Horsford; not common.
- SESLIA MYOPÆFORMIS. Bork. I have received specimens of this species from several of the old gardens in the middle of Norwich, where its larva feeds in the bark of the apple trees. It seems not to have been noticed elsewhere in the county.
- „ CULICIFORMIS. Linn. I have seen a specimen in the collection of a working man, which he states was taken by him near Norwich.
- „ ICHNEUMONIFORMIS. W.V. Recorded by Curtis and Stephens as having been taken at South Creake in 1823. No recent captures in the county known, though it has occurred recently at Brandon on the Suffolk side of the river.

- SESIA TIPULIFORMIS*. Linn. Norwich, Yarmouth, Lynn; common among currant bushes in gardens.
- „ *SPIECIFORMIS*. W.V. The Rev. T. H. Marsh assures me, that he has taken this rarity near Horsford. Its food plant, the alder, is so abundant that it may reasonably be expected to occur in other parts of the county.
- „ *BEMBEIFORMIS*. Hüb. Taken by Mr. Sayer at Neatishead. Also recorded by Curtis.
- „ *APIFORMIS*. Linn. Norwich, Costessey, Cawston, Martham; rather common on poplars; often mistaken for a hornet.
- ZEUZERA ÆSCULI*. Linn. Norwich, Ketteringham, Whitwell, Lynn, Merton, Thetford, Geldestone, Yarmouth; not common.
- COSSUS LIGNIPERDA*. Fab. Norwich, Merton, Thetford, Geldestone, Yarmouth, Horning, Sparham; probably everywhere. In many places the trunks of the ash, oak, willow, poplar, and other trees are completely riddled with the burrows of the larva of this species, and in some cases these trees bleed copiously, the flowing sap being warmly appreciated by hornets, wasps, and butterflies. The rare *Vanessa antiopa* has been taken at them, and *V. polychloros* and *atalanta* are sometimes seen in numbers.
- HEPIALUS HECTUS*. Linn. Norwich, Ketteringham, Merton, Thetford, Gillingham, Wootton, Oby; rather local.
- „ *LUPULINUS*. Linn. Abundant everywhere.
- „ *SYLVINUS*. Linn. Norwich, St. Faith's, Swannington, Merton, Thetford, Gillingham, Yarmouth; on heaths.
- „ *HUMULI*. Linn. Common everywhere.
- PROCRIS STATICES*. Linn. Brandon. Paget records it at Caistor marrams, but I have no recent notice of it there.
- ZYGENA TRIFOLII*. Esp. Near Norwich, Cawston, Ranworth, Horning, Neatishead, Bawsey; local in fens and damp meadows. Paget records it under the name of *LOTI*, var.

- ZYGÆNA LONICERÆ*. Esp. Aldeby (?) Foxley Wood ; also a local species, but not likely to be found in damp situations.
- „ *FILIPENDULÆ*. Linn. Aldeby, Thetford, Cawston, Lynn district ; uncommon and very local in this county, but abundant in most parts of England.
- NOLA CUCULLATELLA*. Linn. Norwich, Merton, Aldeby, Cawston, Horning ; probably everywhere among blackthorn.
- „ *CONFUSALIS*. H-S. [*CRISTULALIS*, Dup. D.L.] Sprowston, Raekheath, Cawston ; not common.
- „ *STRIGULA*. W.V. (?) Said by Paget to be found on the Quay, Yarmouth ; I know of no recent captures there.
- NUDARIA SENEX*. Hüb. Norwich, Surlingham, Horning, Ranworth, Cawston, Merton, Aldeby ; very common in the fens, flying at night in July and August.
- „ *MUNDANA*. Linn. Merton, Aldeby, Yarmouth, Cawston, Horning ; not common.
- CALLIGENIA MINIATA*. Forst. Norwich, St. Faith's, Hoekering, Cawston, Foulsham, Wood Norton, Barton Bendish, Aldeby, Merton.
- LITHOSIA MESOMELLA*. Linn. Horsford, Stratton Strawless, Cawston, Foulsham, Lynn, Narborough, Horning, Aldeby ; local.
- „ *MUSCERDA*. Hüb. Ranworth, Horning, Irstead, Brundall ; abundant in the fens of Norfolk. Curtis in his British Entomology records the finding of two specimens floating in a ditch at Horning, by Mr. J. Sparshall. Some years after this the Rev. J. Landy Brown, found it flying commonly in the evening among alders in the same locality, and it has since been taken in plenty by those who have collected in that and the neighbouring fens. It is not known to occur elsewhere in the British Islands.
- „ *AUREOLA*. Hüb. (*UNITA*, Esp.) Norwich, Merton ; scarce.

- LITHOSIA COMPLANULA. Bdv. (LURIDEOLA, Fr.) Common everywhere.
- „ COMPLANATA. Linn. Merton, Thetford, Yarmouth, Cawston, St. Faith's, Horning. At Merton and Brandon a variety of this species is found which approaches closely to *Lithosia molybdeola*, Gn., (*Sericea* Greg.) and in my opinion serves to prove that the latter form is merely a variety of *complanata*.
- „ GRISEOLA. Hüb. Generally common, abundant in the fens.
- „ „ Var. STRAMINEOLA. Dbl. Also of general occurrence, and rather plentiful in the fens. This form was long considered to be a distinct species, and has only just been *proved* to be a variety of *griseola*, both forms having been reared by the Rev. John Hellins, of Exeter, from a batch of eggs laid by a female *stramineola* from Ranworth fen. This form is peculiar to the British Islands.
- „ QUADRA. Linn. Norwich, Horsford, Horning; scarce. Formerly common near Yarmouth, according to Paget.
- „ RUBRICOLLIS. Linn. Of general occurrence, but not very common.
- EUCHELIA JACOBÆE. Linn. Common everywhere.
- EUTHEMONIA RUSSULA. Linn. On all heaths.
- ARCTIA PLANTAGINIS. Linn. Ketteringham; scarce.
- „ CAJA. Linn. Common everywhere.
- „ VILICA. Linn. Norwich, Thetford, Brandon, Broome, Merton.
- SPILOSOMA FULIGINOSA. Linn. Norwich, Merton, Brandon, Horning, Cawston; not common.
- „ MENDICA. Linn. Merton, Sparham, Cawston, Horstead, Norwich, according to Stephens; not common.
- „ LUBRICEPEDA. Linn. Common everywhere.
- „ MENTHASTRUM. W.V. Common everywhere.
- „ URTICE. Esp. Norwich, Thetford, Surlingham, Horning, Lynn, Gillingham, Barton Turf, in the fens, but scarce.

- LIPARIS CHRYSORRHŒA. Linn. Norwich, Yarmouth, Aldeby ;  
 scarce in this county, and differing from its  
 usual habit of being abundant where it occurs.
- „ AURIFLUA. Fab. Abundant everywhere.
- „ SALICIS. Linn. Norwich, Horning, Yarmouth, Gilling-  
 ham, Thetford ; apparently not very common.
- „ DISPAR. Linn. Formerly at Horning and Cawston, but  
 long since extinct. The Rev. T. H. Marsh,  
 says, “Not uncommon at Cawston, in 1861,  
 but not seen since.” Curtis’s observations in  
 his British Entomology are so interesting, that  
 I think them worth transcribing :—“It is not  
 easy to conceive the delight I experienced  
 when a boy, on finding the locality for the  
 Gipsy Moth. After a long walk I arrived at  
 the extensive marshes of Horning, in Norfolk,  
 having no other guide to the spot than the  
 Myrica gale, and on finding the beds of that  
 shrub, which grows freely there, the gaily  
 coloured caterpillars first caught my sight.  
 They were in every stage of growth, some being  
 as large as swan’s quills. I also soon discovered  
 the moths which are so totally different in  
 colour as to make a tyro doubt their being  
 partners. The large loose cocoons were also  
 very visible, and on a diligent search I found  
 bundles of eggs covered with the fine down  
 from the abdomen of the female. With eggs,  
 caterpillars, chrysalides, and moths, I speedily  
 returned, enjoying unmixed delight in my  
 newly gained acquisitions, and looking forward  
 with pleasure to the feeding and rearing my  
 stock the following year.”

The Myrica gale still flourishes at Horning,  
 but the “Gipsy” Moths have long disappeared.  
 Whether the females and eggs which have been  
 turned out lately by Entomologists will have  
 any effect in re-establishing the species, remains  
 to be seen. Doubtless Curtis reared his larva,

there is no species more easy to propagate and rear in confinement. The breed has been kept up for many years past in this manner, and there seems to be no prospect of its failing, but why, under such circumstances, the insect at large should have become almost totally extinct in this country is simply inexplicable.

LIPARIS MONACHA. Linn. Merton, Cawston, Foulsham, Horsford, Stratton Strawless; not common.

[ARCTURUS SPARSHALLII. Curt.] Of this insect Curtis writes:—  
 “Captured by Joseph Sparshall, Esq., in a lane near Horning, early in the morning of the 7th August, 1829. He believes it was resting upon the trunk of an elm tree.” My friend, Mr. Doubleday, of Epping, who was friendly for many years with Mr. Sparshall, tells me that he is under the impression that this specimen was obtained from Mr. Wigham. Nevertheless Curtis’s circumstantial account seems to indicate its actual *capture* in this country, in which case it was undoubtedly imported in the larva or pupa state, since there is no reason whatever to suppose that this species has ever inhabited this country. Boisduval states, that it is American, but there seems reason to believe rather that it is a native of Australia.

ORGYIA PUDIBUNDA. Linn. Of general occurrence.

„ FASCELINA. Linn. The larva of this species is found not uncommonly on hedges to the north of Norwich, but the perfect insect is very seldom taken. Paget records it at Yarmouth.

„ GONOSTIGMA. Linn. Horning and Ranworth fens; rare. Haworth also records it from Norfolk.

„ ANTIQUA. Linn. Abundant everywhere.

DEMAS CORYLLI. Linn. Thetford.

TRICHIURA CRATEGI. Linn. Norwich, Cawston; scarce.

PŒCHILOCAMPA POPULI. Linn. Norwich, Merton, Gillingham, Cawston, Sparham.

- ERIOGASTER LANESTRIS. Linn. Of general occurrence; in some seasons the larvæ are very abundant, forming large nests of silk on the hawthorn and blackthorn hedges.
- BOMBYX NEUSTRIA. Linn. Of general occurrence, sometimes common.
- „ RUBI. Linn. Of general occurrence on heaths.
- „ QUERCUS. Linn. Generally common. This and the allied species are seldom taken in the perfect state, but commonly in that of larva.
- ODONESTIS POTATORIA. Linn. Common everywhere; abundant in the fens.
- [EUTRICHA PINI. Linn.] This species, like *Arcturus sparshalli*, was recorded by Curtis, and on the same authority. He writes:—"Joseph Sparshall, Esq., took a fine male in the Norfolk and Norwich Hospital, 23rd July, 1809." If this is correct, it is almost certain that the specimen must have been imported in the pupa state with foreign timber, and this might easily be the case as *Eutricha pini* is common in Germany and other parts of the Continent, but I think it likely that Mr. Sparshall mixed his Foreign and British insects, and thus fell into various errors. *E. pini* is not known as a British insect.
- GASTROPACHA QUERCIFOLIA. Linn. Norwich, Merton, Brandon, Thetford, Aldeby, Ranworth, Sparham, Cawston, Bawsey, near Lynn; not very common.
- SATURNIA CARPINI. Bork. Norwich, Merton, Aldeby, Ranworth, Horning, Dilham, Cawston. In the fens its larva feeds principally on *Spiræa ulmaria* (meadow-sweet.)

## GEOMETRÆ.

- OURAPTERYX SAMBUCATA. Linn. Common everywhere.
- EPIONE VESPERTARIA. Linn. Very rare. One specimen taken at Neatishead, in 1860, by Mr. Sayer, and one at Cawston, by the Rev. T. H. Marsh.

- EPIONE APICIARIA*. W.V. Of general occurrence, plentiful in the fens.
- RUMIA CRATEGATA*. Linn. Abundant everywhere. Mr. T. E. Gunn has a very singular variety—pale buff, with yellow veins—taken at Norwich.
- VENILIA MACULATA*. Linn. Merton, Horning, Haveringland, Cawston; local.
- ANGERONA PRUNARIA*. Linn. Aldeby, Foxley, Foulsham.
- METROCAMPA MARGARITATA*. Linn. Of general occurrence.
- ELLOPIA FASCIARIA*. Linn. Norwich, Stratton Strawless, Merton, Brandon, Mintlyn, Cawston; probably in all fir woods.
- EURYMENE DOLOBRARIA*. Linn. Norwich, Costessey, Merton, Aldeby, Thetford, Foxley, Wootton, Cawston, Neatishead; not common.
- PERICALLIA SYRINGARIA*. Linn. Norwich, Ketteringham, Aldeby, Thetford, Foxley, Lynn district, Cawston, Horsford, Ranworth, Horning; not very common.
- SELENIA ILLUNARIA*. Hüb. Common everywhere.
- „ *LUNARIA*. W.V. Once taken in Norwich by Mr. F. D. Wheeler.
- „ *ILLUSTRARIA*. Hüb. Thetford. One specimen bred by the Rev. H. Williams, of Croxton.
- ODONTOPTERA BIDENTARIA*. Linn. Norwich, Merton, Aldeby, Thetford, Cawston.
- CROCALLIS ELINGUARIA*. Linn. Norwich, Aldeby, Thetford, Horning, Lynn, Cawston.
- ENNOMOS TILIARIA*. Hüb. Norwich, Merton, Thetford, Lynn, Sparham, Ranworth, Neatishead; rather common, especially in the fens.
- „ *FUSCANTARIA*. Haw. Norwich; rare.
- „ *EROSARIA*. W.V. Norwich, Merton, Brandon, Cawston; scarce.
- „ *ANGULARIA*. W.V. Norwich, Merton, Thetford, Cawston; not common.
- HIMERA PENNARIA*. Linn. Norwich, Yarmouth, Merton, Thetford, Cawston.

- PHIGALIA PILOSARIA. W.V. Norwich, Sparham, Cawston, Raveningham ; not so common as it usually is in other counties.
- BISTON HIRTARIA. Linn. Norwich, Cawston, Lynn, Raveningham ; uncommon.
- AMPHIDASIS PRODROMARIA. W.V. Norwich, Thetford, Lynn, Sall, Cawston, Raveningham ; not common.
- „ BETULARIA. Linn. Of general occurrence.
- HEMEROPHILA ABRUPTARIA. Thunb. Norwich, Merton, Thetford, Cawston, Wootton.
- CLEORA LICHENARIA. W.V. Of general occurrence.
- BOARMIA REPANDATA. Linn. Common everywhere.
- „ RHOMBOIDARIA. W.V. Common everywhere.
- TEPHROSIA CREPUSCULARIA. W.V. Horsford, Foulsham ; not common.
- „ BIUNDULARIA. Esp. Stratton Strawless, Foulsham ; not common.
- „ PUNCTULARIA. W.V. Merton, Gillingham, Mintlyn, Wootton, Foulsham ; not common.
- GNOPHOS OBSCURATA. W.V. Merton, Barton, Northwold, Yarmouth.
- PSEUDOTERPNA CYTISARIA. W.V. Common on heaths, and waste places on the coast.
- GEOMETRA PAPILIONARIA. Linn. Norwich, Merton, Gillingham, Thetford, Cawston, Irstead, Ranworth, Surlingham ; rather frequent in the fens.
- NEMORIA VIRIDATA. Linn. Four specimens were taken at Horning last summer. The species had not previously been suspected, as far as I know, of being found in the Eastern counties, although the fen districts sufficiently resemble the mosses of Laneashire, in which it is abundant, to render its presence intelligible. Had I not seen the specimens, however, I should have felt doubtful on the subject.
- IODIS VERNARIA. Linn. Recorded by Paget in his Yarmouth list, and probably correctly, but no recent capture seems to be known.

- IODIS LACTEARIA*. Linn. Norwich, St. Faith's, Sparham, Cawston, Gaywood, Merton, Aldeby; probably everywhere.
- PHORODESMA BAJULARIA*. W.V. Merton, Foxley, Foulsham; scarce.
- HEMITHIA THYMIARIA*. Linn. Norwich, Yarmouth, Aldeby, Merton, Thetford, Cawston, Sparham, Horning, probably everywhere.
- EPHYRA PORATA*. Linn. Brandon, Horning; scarce.
- „ *PUNCTARIA*. Linn. Norwich, Merton, Thetford, Horning, Cawston, Mintlyn; apparently not common.
- „ *TRILINEARIA*. Bork. Merton, Stratton Strawless; scarce.
- „ *OMICRONARIA*. W.V. Norwich, Aldeby, Merton, Ketteringham, Sparham, Cawston, Yarmouth; not uncommon.
- „ *PENDULARIA*. Linn. Foulsham, Bawsey near Lynn; scarce.
- HYRIA AURORARIA*. Gn. Ranworth, Horning, Hoveton, Neatishead, Cawston, Aldeby; rather common in the wettest parts of the fens. A most lovely species.
- ASTIENA LUTEATA*. W.V. Norwich, Costessey, Mintlyn, Barton, Cawston.
- „ *CANDIDATA*. W.V. Norwich, Merton, Thetford, Aldeby, Cawston, Horning; not very plentiful.
- „ *SYLVATA*. W.V. Foxley, Foulsham; scarce.
- EUPISTERIA HEPARATA*. W.V. Seems to occur everywhere among alders, and much more commonly than in most counties.
- ACIDALIA RUBRICATA*. W.V. Norwich, Merton, Brandon, Thetford, Cawston, Mintlyn, St. Faith's. This beautiful little species was formerly considered a great rarity, until its head quarters on the "Breck" sand of Norfolk and Suffolk were discovered. It is also found on heaths in other parts of the county, but the specimens are frequently much darker in colour than those of the "Breck" district.
- „ *SCUTULATA*. W.V. Common everywhere.

- ACIDALIA BISETATA. Bork. Common everywhere.
- „ INTERJECTARIA. Bdv. (Dilutaria, Hüb.) Common everywhere.
- „ HOLOSERICATA. Dup. Thetford. I have seen a specimen of this exceedingly local species taken by the Rev. H. Williams. Elsewhere it seems confined to Bristol.
- „ INCANARIA. Hüb. Generally common.
- „ ORNATA. Scop. Merton, Wood Dalling; local and scarce.
- „ PROMUTATA. Gn. Norwich, Yarmouth, Aldeby, Merton, Brandon, Leziate; common where it occurs.
- „ SUBSERICEATA. Haw. Norwich, St. Faith's, Merton, Thetford.
- „ IMMUTATA. Linn. Norwich, Surlingham, Ranworth, Horning, Aldeby, Merton, Brandon, Cawston, Wootton; abundant in all the fens.
- „ REMUTATA. Hüb. Norwich, Merton, Lynn, Horning, Cawston, Coltishall; not so abundant as usually is the case.
- „ IMITARIA. Hüb. Of general occurrence.
- „ EMUTARIA. Hüb. Lynn, Wootton. A rare species, but probably to be found in the salt marshes all along the coast.
- „ AVERSATA. Linn. Common everywhere.
- „ INORNATA. Haw. Merton, Brandon, Cawston (?); very local.
- „ EMARGINATA. Linn. Of general occurrence; common in the fens.
- TIMANDRA AMATARIA. Linn. Of general occurrence, but not common
- CABERA PUSARIA. Linn. Abundant everywhere.
- „ ROTUNDARIA. Haw. A single specimen has occurred at Norwich.
- „ EXANTHEMARIA. Scop. Common everywhere.
- CORYCIA TEMERATA. W.V. Norwich, Ketteringham, Merton, Cawston, Neatishead, Yarmouth; recorded by Paget under the name of *punctata*.
- „ TAMINATA. W.V. Norwich, Merton, Thetford, Cawston, Lynn; not very common.

- MACARIA LITURATA. Linn. Yarmouth, Merton, Thetford, Cawston, Mintlyn, Horsford; probably in all fir woods.
- HALIA WAVARIA. Linn. Common everywhere in gardens.
- STRENIA CLATHRATA. Linn. Norwich, Yarmouth, Aldeby, Merton, Thetford, Sparham, Snettisham; common in clover fields. Richly coloured, and variable in this county.
- PANAGRA PETRARIA. Hüb. Norwich, Costessey, Merton, Thetford, Aldeby, Ranworth; a curious pale variety has been found in the fens.
- NUMERIA PULVERARIA. Linn. Cawston, Foulsham.
- FIDONIA ATOMARIA. Linn. Common on all heaths, and found also in the fens.
- „ PINIARIA. Linn. Merton, Thetford, Lynn district, Felthorpe, Cawston, Horsford; probably in all fir woods.
- ASPILATES STRIGILLARIA. Hüb. Horning; scarce.
- „ CITRARIA. Hüb. Merton, Thetford, Brandon, Hunstanton, Snettisham; and one specimen at Norwich. Common in the "Breck" district. Usually a coast insect.
- ABRAXAS GROSSULARIATA. Linn. Abundant everywhere.
- „ ULMATA. Fab. Ketteringham, Merton, Mintlyn, Lynn walks; very scarce.
- LIGDIA ADUSTATA. W.V. Norwich, Aldeby, Merton, Thetford, Horning, Cawston; common.
- LOMASPILIS MARGINATA. Linn. Generally common.
- HIBERNIA RUPICAPRARIA. W.V. Norwich, Aldeby, Thetford, Sparham, Cawston; probably everywhere.
- „ LEUCOPHEARIA. W.V. Norwich, Merton, Aldeby, Sparham, Cawston; not very common.
- „ AURANTIARIA. Hüb. Norwich, Merton, Thetford, Aldeby, Cawston.
- „ PROGEMMARIA. Hüb. Common everywhere.
- „ DEFOLIARIA. Linn. Norwich, Merton, Aldeby, Sparham, Cawston; probably everywhere.
- ANISOPTERYX ÆSCULARIA. W.V. Common everywhere.
- CHEIMATOBIA BRUMATA. Linn. Everywhere abundant.

- OPORABIA DILUTATA. W.V. Norwich, Merton, near Beccles, Cawston ; probably everywhere.
- „ FILIGRAMMARIA. H.-S. Cawston, Norwich? I am not satisfied that this species has really occurred in the county, as some varieties of *Dilutata* are apt to be mistaken for it.
- LARENTIA DIDYMATA. Linn. Norwich, Horning, Cawston, Merton, near Beccles ; probably everywhere.
- „ MULTISTRIGARIA. Haw. Norwich, Yarmouth, Merton, Thetford, Cawston, Neatishead ; on heaths.
- „ PECTINITARIA. Fucss. Norwich, Horsford, Ranworth, Merton, near Beccles.
- EMMELESIA AFFINITATA. Steph. Merton, Horning, Cawston ; not common.
- „ ALCHEMILLATA. Linn. Norwich, Merton, Thetford, Brandon, Aldeby, Horning, Cawston, Barton Bendish ; not common.
- „ ALBULATA. W.V. Norwich, Merton, Aldeby, Horning, Lynn, Wootton ; probably wherever the Yellow Rattle (*Rhinanthus crista-galli*) grows.
- „ DECOLORATA. Hüb. Norwich, Merton, Thetford, Brandon, Aldeby, Cawston, Horning ; common among *Lychnis vespertina*.
- EUPITHECIA VENOSATA. Fab. Norwich, Merton, Thetford, Cawston, Horsford ; among *Silene inflata*.
- „ CONSIGNATA. Bork. Norwich, Shadwell ; very rare.
- „ LINARIATA. W.V. Norwich, Merton, Thetford, Brandon, Cawston ; among *Linaria vulgaris*.
- „ CENTAUREATA. W.V. Norwich, Merton, Thetford, Aldeby, Brandon, Barton Bendish, Yarmouth.
- „ SUCCENTURIATA. Linn. Norwich, Aldeby, Cawston, Hunstanton ; scarce.
- „ SUBFULVATA. Haw. Norwich, Ketteringham, Aldeby, Merton, Thetford, Lynn, St. Faith's, Ranworth ; rather common.
- „ PYGMÆATA. Hüb. One specimen found flying in the sunshine, on the railway embankment at Lakenham, Norwich.
- „ CASTIGATA. Haw. Norwich, Aldeby, Cawston.

- EUPITHECIA VIRGAUREATA. Dbl. Horning ; scarce.
- „ ALBIPUNCTATA. Haw. Horning ; scarce.
- „ VALERIANATA. Hüb. Norwich, Brundall, Ranworth ;  
among *Valeriana* in the fens.
- „ IRRIGUATA. Hüb. Hunstanton ; taken by the Rev. H.  
Harper Crewe.
- „ FRAXINATA. Crewe. Norwich, Horning, Yarmouth ;  
among ash.
- „ INDIGATA. Hüb. Horsford, Cawston ; in fir woods.
- „ NANATA. Hüb. Common on heaths.
- „ VULGATA. Haw. Common everywhere.
- „ ABSYNTIATA. Linn. Aldeby, Cawston, Horning.
- „ MINUTATA. Hüb. Norwich, St. Faith's, Cawston,  
Brandon.
- „ ASSIMILATA. Dbl. Norwich, Cawston.
- „ TENUIATA. Hüb. Aldeby, Merton, Thetford, Ranworth,  
Horning, Cawston, Hunstanton ; common  
about salallows in the fens.
- „ SUBCILIATA. Gn. Gillingham, Thetford, Cawston ;  
scarce.
- „ DODONEATA. Gn. Thetford ; rare.
- „ ABBREVIATA. Steph. Norwich, St. Faith's, Cawston,  
Aldeby.
- „ EXIGUATA. Hüb. Norwich, Aldeby.
- „ SOBRINATA. Hüb. Norwich, Merton, Thetford, Brandon.
- „ PUMILATA. Hüb. Norwich, Cawston, St. Faith's ;  
apparently not common.
- „ CORONATA. Hüb. Aldeby, Horning, Cawston.
- „ RECTANGULATA. Linn. Common everywhere.
- COLLIX SPARSATA. Hüb. Surlingham, Aldeby, Ranworth, Hor-  
ning, Barton Turf ; pretty common in the fens,  
flying around salallow bushes in the evening.
- LOBOPHORA SEXALATA. Hüb. Norwich, Surlingham, Aldeby,  
Geldeston, Foulsham, Horning, Ranworth ; not  
common. Found principally about salallows in  
the fens.
- „ VIRETATA. Hüb. Geldeston, Ketteringham, Neatishead ;  
scarce. Recorded in Norfolk by Stephens.
- THERA VARIATA. W.V. Generally common in fir woods.

- THERA FIRMARIA*. Hüb. Norwich, Horsford, Hevingham,  
Cawston, Thetford, Plumstead ; among fir.
- YPSIPETES IMPLUVIATA*. W.V. Of general occurrence.
- „ *ELUTATA*. W.V. Common everywhere.
- MELANTHIA RUBIGINATA*. W.V. Common everywhere.
- „ *OCELLATA*. Linn. Generally common.
- „ *ALBICILLATA*. Linn. Norwich, Aldeby, Ormesby,  
Barton Bendish, Horning, Neatishead ; not  
common. Recorded in Norfolk by Haworth,  
Stephens, and Wood.
- MELANIPPE PROCELLATA*. W.V. Norwich, Aldeby, Cawston ; scarce.
- „ *UNANGULATA*. Haw. Merton, Aldeby, Cawston,  
Norwich.
- „ *SUBTRISTATA*. Haw. Common everywhere.
- „ *MONTANATA*. W.V. Of general occurrence.
- „ *GALIATA*. W.V. Horning, Cawston ; scarce.
- „ *FLUCTUATA*. Linn. Common everywhere, excessively so  
at Norwich.
- ANTICLEA SINUATA*. W.V. Brandon, Thetford ; scarce.
- „ *RUBIDATA*. W.V. Aldeby, Merton, Thetford, Brandon,  
Cawston.
- „ *BADIATA*. W.V. Norwich, Aldeby, Merton, Sparham,  
Cawston ; probably common everywhere.
- „ *DERIVATA*. W.V. Norwich, Aldeby ; not common.
- „ *BERBERATA*. W.V. Formerly taken at Beachamwell by  
Mr. J. Scales, and recorded by Stephens. The  
neighbourhood of Beachamwell seems to have  
formerly been prolific in rare insects, but it  
does not appear to have been worked since the  
time of Mr. Scales.
- COREMIA PROPUGNATA*. W.V. Norwich, Merton, Aldeby,  
Cawston, Horning, Ranworth.
- „ *FERRUGATA*. Linn. Common everywhere.
- „ *UNIDENTARIA*. Haw. Norwich, Aldeby, Horning ;  
probably everywhere.
- „ *QUADRIFASCIARIA*. Linn. Norwich, Aldeby, Merton,  
Cawston, Barton, Wootton ; not common.  
Recorded from Norfolk by Haworth and  
Stephens.

- CAMPTOGRAMMA BILINEATA. Linn. Abundant everywhere.
- „ FLUVIATA. Hüb. Horning, Foulsham ; very rare.
- PHIBALAPTERYX TERSATA. W.V. Ditchingham, Thetford,  
Foulsham ; very local.
- „ LIGNATA. Hüb. Norwich, Brundall, Aldeby, Merton,  
Thetford, Brandon, Ranworth, Cromer ; very  
common in the fens and marshy meadows.
- „ POLYGRAMMATA. Bork. (?) Recorded by Stephens, but  
probably by mistake for *Lignata*, yet, as it is  
found in Cambridgeshire, I hesitate to exclude  
it from this list.
- SCOTOSIA DUBITATA. Linn. Norwich, Aldeby, Merton, Cawston,  
Lynn, Ranworth.
- „ VETULATA. W.V. Aldeby, Thetford, Ranworth, Horning,  
Surlingham ; among buckthorn (*Rhamnus  
catharticus*) in the fens.
- „ RHAMNATA. W.V. Norwich, Merton, Thetford, Ranworth,  
Horning ; in similar situations to the last.
- „ CERTATA. Hüb. Norwich, Thetford, Cawston ; among  
barberry (*Berberis*.)
- „ UNDULATA. Linn. Aldeby, Ranworth, Foxley, Barton  
Bendish, Merton, Foulsham ; not common.
- CIDARIA PSITTACATA. W.V. Thetford ; scarce.
- „ MIATA. Linn. Norwich, Yarmouth, Aldeby, Buxton,  
Cawston ; common.
- „ PICATA. Hüb. Merton, Aldeby, Cawston, Ketteringham.
- „ CORYLATA. Thunb. Of general occurrence.
- „ SAGITTATA. Fab. Norwich, Brundall, Aldeby ; scarce.  
Found among meadow-rue (*Thalictrum*) in the  
fens of this, and the adjoining counties.
- „ RUSSATA. W.V. Abundant everywhere.
- „ IMMANATA. Haw. Generally common.
- „ SUFFUMATA. W.V. Norwich, Aldeby, Cawston.
- „ SILACEATA. W.V. Norwich, Costessey, Foxley, Aldeby,  
Cawston, Foulsham ; not common.
- „ PRUNATA. Linn. Norwich, Merton, Aldeby, Thetford,  
Horning, Lynn, Cawston ; not very common.
- „ TESTATA. Linn. Common everywhere, particularly in  
the fens.

- CIDARIA POPULATA. Bork. Cawston, Barton Bendish; I long hesitated to include this Northern species in our list, but the sight of an undoubted specimen taken by Mr. Atmore of Lynn, has decided the point.
- „ FULVATA. Forst. Of general occurrence.
- „ PYRALIATA. Bork. Norwich, Aldeby, Horning, Cawston.
- „ DOTATA. Linn. Norwich, Aldeby, Horning, Lynn; recorded at Yarmouth by Paget, under the name of *Spinachiata*. Haw.
- PELURGA COMITATA. Linn. Norwich, Yarmouth, Aldeby, Thetford, Lynn, Cawston, Horning; usually a local or scarce species, but common in Norfolk.
- EUBOLIA CERVINARIA. W.V. Norwich, Yarmouth, Kirby Cane, Thetford, Cawston, Lynn district; common.
- „ MENSURARIA. W.V. Norwich, Gillingham, Merton, Thetford, Ranworth.
- „ PALUMBARIA. W.V. Generally common on heaths.
- „ BIPUNCTARIA. W.V. Horsford (?), Brandon, Merton. This species is almost confined to the chalk downs of the south, and where found it is usually abundant. The occurrence of isolated specimens in this district is therefore very curious. It seems to indicate either that the species has been common upon the chalk of the Eastern Counties and is gradually dying out, or that it is gradually effecting a settlement in the district.
- „ LINEOLATA. W.V. Yarmouth, Thetford, Cromer; very common on the sand-hills (or dunes) of the coast, and still lingering in the ancient coast district of the "Breek" sand, although far removed from the sea.
- ANAITIS PLAGIATA. Linn. Common everywhere.
- LITHOSTEGE GRISEATA. W.V. (NIVEARIA, D.L.) Brandon, Thetford, This species seems confined, in this country to the "Breek" district, its larva feeding upon the seeds of *Sisymbrium sophia* and *S. cheiranthoides*, but it does not follow these plants into other districts.

- CNESIAS SPARTIATA. Fab. Norwich, Aldeby, Merton, Thetford ;  
among broom (*Spartium scoparium*.)  
,, OBLIQUARIA. W.V. Norwich, Thetford ; among broom ;  
scarcely. Probably at Brandon, where it has  
occurred on the Suffolk side of the river.

## DREPANULE.

- PLATYPTERYX LACERTULA. Hüb. Merton, Northwold, uncommon.  
DREPANA FALCULA. W.V. Norwich, Merton, Thetford, Aldeby,  
Wootton, Cawston, St. Faith's, Horsford ; pro-  
bably everywhere.  
,, HAMULA. W.V. Merton, Thetford, Cawston, St. Faith's,  
Horsford ; not common.  
,, UNGUICULA. Hüb. Merton, Thetford ; among beech ;  
very local.  
CILIX SPINULA. W.V. Common everywhere.

## PSEUDO-BOMBYCES.

- CERURA FURCULA. Linn. Yarmouth, Merton, Thetford, Stratton  
Strawless, Hoveton, Irstead, Barton Turf ;  
probably not rare on sallows in all the fens,  
but seldom taken.  
,, BIFIDA. Hüb. Norwich, Thetford, Aldeby, Cawston ;  
probably not rare among poplars.  
,, VINULA. Linn. Of general occurrence.  
STAUROFUS FAGI. Linn. Norwich, Merton, Cawston, Foulsham,  
Horsford, Stratton Strawless ; very rare now,  
although it appears to have been formerly  
much more common. It is said that John  
Curtis used to take it even in the Cathedral  
Close, and he writes in his British Entomology :  
"One of the first insects that I remember to  
have taken was a female of this insect. It  
was fluttering up palings under some lime trees  
near Norwich, in the middle of June, and  
more than two centuries back Mouffet said  
that the *Staphylinus* caterpillar was common  
in Norfolk."

The name "*Staphylinus*" caterpillar was evidently given to the larva of this species from the extreme singularity of its form, which somewhat resembles a lobster, and obtains for the perfect insect the name of the Lobster Moth.

I have seen two specimens taken within the last few years a few miles from Norwich, by Messrs. Hickling and Starling.

PETASIA CASSINEA. Fab. Norwich, Thetford, Cawston; apparently scarce, but from appearing in November it may be overlooked.

PYGÆRA BUCEPHALA. Linn. Common everywhere.

CLOSTERA CURTULA. Linn. Merton, Thetford; rare.

„ RECLUSA. W.V. Merton, Thetford, Aldeby, St. Faith's, Ranworth, Barton Turf; probably in all the fens and boggy heaths, the larva feeding between united leaves of dwarf sallow.

PTILODONTIS PALPINA. Linn. Norwich, Geldeston, Merton, Thetford, Irstead, Buxton, Foulsham; probably found sparingly among poplars everywhere.

NOTODONTA CAMELINA. Linn. Norwich, Gillingham, Thetford, Lynn, Cawston; not very common.

„ CUCULLINA. W.V. Very rare. One specimen in Norwich, attracted by a female bred by Mr. F. D. Wheeler, and a larva found at Horning by Mr. A. B. Farn.

„ DICTÆA. Linn. Norwich, Gillingham, Thetford, Foulsham; among poplars.

„ DICTÆOIDES. Esp. Norwich (!), Thetford, Foulsham.

„ DROMEDARIUS. Linn. Horning, Cawston, Runham, Gillingham, Thetford; scarce.

„ ZICZAC. Linn. Norwich, Runham, Gillingham, Thetford, Cawston, St. Faith's, Horning, Ranworth, Irstead, Whitesley. The commonest species of the genus in Norfolk, and apparently found about sallows in all the fens. It is, however, seldom captured except in the larva state.

- NOTODONTA TREPIDA. Fab. Norwich, Cawston, Dilham; rare.  
Recorded at Yarmouth by Paget under the name of *Tremula*.
- „ CHAONIA. W.V. Cawston, Stratton Strawless; rare.
- „ DODONEA. W.V. Norwich, Rackheath, Cawston, Gillingham; rare.
- DILOBA CERULEOCEPHALA. Linn. Of general occurrence, sometimes plentiful. I once saw over one hundred on gas lamps at Norwich in one night.

## NOCTUÆ.

- THYATIRA DERASA. Linn. Norwich, Aldeby, Merton, Thetford, Ketteringham, Cawston, Foulsham, Ranworth, Thurn; not common.
- „ BATHS. Linn. Norwich, Aldeby, Merton, Ketteringham, Cawston, Foulsham, Horning.
- CYMATOPHORA DUPLARIS. Linn. Norwich, Aldeby, Merton, Foxley, Foulsham, Neatishead, Horning, St. Faith's.
- „ DILUTA. W.V. Merton, Foulsham, Neatishead; apparently not common in this county.
- „ OR. W.V. Foxley, Foulsham, Neatishead; scarce.
- „ OCULARIS. Linn. Norwich, Gillingham, Thetford, Cawston, Foulsham. This beautiful and generally rare species, seems frequent and widely distributed in this county.
- „ FLAVICORNIS. Linn. Only observed at Merton by Lord Walsingham, but from its early occurrence it may possibly be overlooked elsewhere.
- „ RIDENS. Fab. Norwich, Stratton Strawless, Cawston; scarce. Also an early species.
- BRYOPHILA GLANDIFERA. W.V. Lord Walsingham records the capture of a single specimen on the Merton estate. It probably occurs also upon the coast.
- „ PERLA. W.V. Abundant everywhere.
- DIPHThERA ORION. Esp. Recorded at Aldeby by Mr. W. M. Crowfoot. It is not rare in Suffolk, but does

- not appear to penetrate further into this county.
- ACRONYCTA TRIDENS. W.V. Norwich, Aldeby, Merton, Thetford, Lynn, Cawston, Horning, Barton Turf; not rare.
- „ PSI. Linn. Abundant everywhere.
- „ LEPORINA. Linn. Norwich, Aldeby, Thetford, Foxley, Cawston, Foulsham, Horning, Stratton Strawless; recorded at Runham by Paget, under the name of *Bradyporina*.
- „ ACERIS. Linn. Of general occurrence.
- „ MEGACEPHALA. W.V. Norwich, Yarmouth, Aldeby, Thetford, Foxley, Cawston, Horning; sometimes abundant among poplars.
- „ STRIGOSA. Fab. Recorded at Foulsham by the Rev. T. H. Marsh. Stephens writes: "Mr. Haworth possesses a single specimen of this insect, which I believe was taken in Norfolk." The species is rare, but as its head quarters are in Cambridgeshire, it may reasonably be expected to occur in West Norfolk.
- „ ALNI. Linn. Merton, Foxley, Cawston, Foulsham; also recorded in Norfolk by Haworth and Stephens. Generally a great rarity.
- „ LIGUSTRI. W.V. Aldeby, Merton, Thetford, Foxley, Lynn, Cawston, Foulsham; among ash.
- „ RUMICIS, Linn. Aldeby, Merton, Thetford, Cawston, Horning.
- „ MENYANTHEDIS. Esp. Two larvæ were found by Mr. F. D. Wheeler at Hickling and Barton Turf, one of which was reared, and the moth is most unquestionably this species. Had I not seen it I should have felt great doubt of the propriety of including this northern species in the Norfolk List.
- SIMYRA VENOSA. Bork. Ranworth, Horning, Reedham; only in the fens. Also recorded in Norfolk by Haworth and Stephens.
- LEUCANIA CONIGERA. W.V. Generally common.

- LEUCANIA TURCA. Linn. Recorded at Foulsham by the Rev. T. H. Marsh. I have seen no Norfolk specimen.
- „ LITHARGYRIA. Esp. Norwich, Aldeby, Lynn district, Horning, Thurn, Stalham.
- „ OBSOLETA. Hüb. Merton, Cawston, Horning ; searee.
- „ LITTORALIS. Curt. Yarmouth, Caistor, Horsey ; not rare on the coast sands.
- „ PUDORINA. W.V. Aldeby, Merton, Ketteringham, Cawston, Horning, Ranworth ; probably in all the fens.
- „ COMMA. Linn. Norwich. Aldeby, Merton, Thetford Cawston, Horning ; not very common.
- „ STRAMINEA. Tr. Norwich, Cawston, Ranworth, Horning ; probably in all the fens, among reed (*Arundo Phragmites.*)
- „ IMPURA. Hüb. Abundant everywhere.
- „ PALLENS. Linn. Recorded by Paget under the name of *Rufescens* ; common everywhere.
- „ PHRAGMITIDIS. Hüb. Oby, Aldeby, Merton, Brandon, Lynn district, Horning, Ranworth ; probably in all the Fens.
- MELIANA FLAMMEA. Curt. Merton, Brandon, Barton Turf ; very rare.
- SENTA ULVÆ. Hüb. Norwich, Cawston, Ranworth, Horning ; probably in all the fens, but not commonly.
- TAPINOSTOLA ELYMI. Tr. The first notice of the occurrence of this species in Great Britain was by Mr. G. R. Crotch of Weston-super-Mare, who stated in the Zoologist for September, 1861, that he and Mr Winter had both taken specimens. By some extraordinary error these specimens were understood to have been taken in the Norfolk fens (at Ranworth), and a record to that effect appeared in the Entomologists Annual for 1862, page 108. Knowing that the food-plant of this species—*Elymus arenarius*—was an inhabitant of coast sand hills, and not of the fens, I wrote to Mr. Doubleday, by whom the

correct name of the species had been first obtained, and ascertained from him that Mr. Crotch's specimens were taken, not in the fens, but on the coast, near Yarmouth, and this intelligence was afterwards confirmed by Mr. T. Brown of Cambridge, who kindly directed me to the true locality at Caistor, near Yarmouth. Here I had the pleasure of taking last summer, a good number of specimens, thus clearing up all possible doubt about the original locality. The insect has also been taken at Cleethorpes in Lancashire. It is excessively sluggish, and usually found hidden among the *Elymus* and surrounding Marram grass, (*Ammophila arundinacea*.)

- NONAGRIA DESPECTA. Tr. Aldeby, Merton, Surlingham, Horning, Ranworth, Cawston, Hunstanton; very abundant in the fens. Recorded in Norfolk by Curtis and Stephens.
- „ FULVA. Hüb. Norwich, Aldeby, Merton, St. Faith's, Cawston, Foulsham, Horning; common in fens and damp woods.
- „ HELMANNI. Evers. Yarmouth; one specimen taken by Mr. Farr many years ago.
- „ NEURICA. Hüb. Yarmouth, Aldeby, Merton, Horning, Ranworth; probably in all the fens.
- „ BREVILINEA. Fenn. Horning, Ranworth. Norfolk enjoys the honour of being, as far as I know, the exclusive home of this species. It has not been taken in any other part of the kingdom, nor do I know of any locality for it on the Continent. It was discovered by Mr. Charles Fenn, of Lewisham, who, when on a visit to Ranworth in the beginning of August, 1864, took a single specimen. After a careful comparison with the allied species, it was described by him as a novelty, and a notice of it appears in the Entomologist's Annual for 1865, p. 105. Since that time many specimens have been

taken in the fens by different collectors. It is a distinct and well-marked species, and had probably escaped notice from its exceedingly secret and sluggish habits.

- NONAGRIA CANNÆ. Ochs. Taken at Barton Broad by Mr. F. D. Wheeler, but very scarce.
- „ TYPHÆ. Esp. Norwich, West Caistor, Aldeby, Merton, Horning, Barton Broad; probably in all the fens among *Typha latifolia*.
- „ LUTOSA. Hüb. Norwich, Aldeby, Neatishead, Horning. Paget records it at Yarmouth under the name of *crassicornis*. It is also noticed in the county by Haworth, Stephens, and Wood.
- GORTYNA FLAVAGO. W.V. Norwich, Yarmouth, Merton, Thetford, Cromer, Surlingham.
- HYDRÆCIA NICTITANS. Linn. Norwich, Merton, Hoveton, Horning, Hunstanton.
- „ PETASITIS. Dbl. There is in Mr. Gunn's collection one specimen which was taken by Mr. Sayer at Costessey near Norwich. It seems to be very rare in the county.
- „ MICACEA. Esp. Common everywhere.
- AXYLIA PUTRIS. Linn. Norwich, Aldeby, Thetford, Cawston, Lynn, Horning.
- XYLOPHASIA RUREA. Fab. Norwich, Merton, Aldeby, Cawston; apparently *not* common.
- „ LITHOXYLEA. W.V. Generally distributed.
- „ SUBLUSTRIS. Esp. Yarmouth, Aldeby, Foxley, Cawston; not common. Recorded by Paget under the name of *musicalis*.
- „ POLYODON. Linn. Abundant everywhere.
- „ HEPATICA. Linn. Norwich, Aldeby, Cawston, Hoekering.
- „ SCOLOPACINA. Esp. Geldestone, Gillingham, Foxley, Wootton, Cawston, Beeston St. Andrew; scarce.
- DIPTERYGIA PINASTRI. Linn. Norwich, Geldestone, Merton, Thetford, Mintlyn, Cawston, Horning; common.
- NEURIA SAPONARIE. Esp. Norwich, Geldestone, Thetford, Lynn, Cawston, Horsford, Neatishead, Horning.

- HELIOPHOBUS POPULARIS*. Fab. Of general occurrence.  
*CHARÆAS GRAMINIS*. Linn. Of general occurrence, but not common.  
*CERIGO CYTHEREA*. Fab. Norwich, Yarmouth, Geldestone, Merton,  
 Thetford, Foxley, Cawston, Hunstanton;  
 common.  
*LUPERINA TESTACEA*. W.V. Abundant everywhere.  
 „ *CESPITIS*. W.V. Norwich, Merton; scarce.  
*MAMESTRA ABJECTA*. Hüb. Yarmouth, Horning; rare.  
 „ *ANCEPS*. Hüb. Norwich, Aldeby, Thetford, Lynn,  
 Foulsham, Horning; not scarce.  
 „ *ALBICOLON*. Hüb. Yarmouth, Thetford, Brandon; a  
 coast species, but still to be found commonly  
 on the ancient coast sands of the “Breck”  
 district.  
 „ *BRASSICÆ*. Linn. Abundant everywhere.  
 „ *PERSICARIÆ*. Linn. Common everywhere.  
*APAMEA BASILINEA*. W.V. Norwich, Kirby Cane, Thetford,  
 Cawston.  
 „ *CONNEXA*. Bork. Foxley, Foulsham, Neatishead; a  
 very local species.  
 „ *GEMINA*. Hüb. Norwich, Aldeby, Thetford, Cawston;  
 not common.  
 „ *UNANIMIS*. Hüb. Norwich, Brundall, Aldeby, Thetford,  
 Foxley, Cawston, Ranworth, Horsey; rather  
 common in the fens and marshes.  
 „ *OPHIGRAMMA*. Esp. Norwich, Aldeby, Horning; not  
 rare in the fens, probably occurring in all of  
 them.  
 „ *FIBROSA*. Hüb. Norwich, Surlingham, Aldeby, Cawston,  
 Horning, Ranworth; rather common in the fens.  
 „ *OCULEA*. Linn. Abundant everywhere.  
*MIANA STRIGILIS*. Linn. Common everywhere.  
 „ *FASCIUNCULA*. Haw. Norwich, Brundall, Yarmouth,  
 Aldeby, Thetford, Cawston, Rising, Horning;  
 plentiful in some of the fens and wet woods.  
 „ *LITEROSA*. Haw. Norwich, Yarmouth, Aldeby, Thet-  
 ford, Foxley, Cawston, Hunstanton, Thurn,  
 Horning; common on the coast. Recorded in  
 the county by Haworth.

- MIANA FURUNCULA. W.V. Norwich, Aldeby, Merton, Brandon, Thetford, Wootton, Hunstanton, Cawston, Horning; local, but very abundant where found. Recorded at Yarmouth by Paget, under the name of *humeralis*.
- „ ARCUOSA. Haw. Norwich, Thetford, Foulsham; apparently scarce.
- CELENA HAWORTHII. Curt. Bawsey, Merton, Horning, Ranworth; probably in all the fens, but not very common.
- GRAMMESIA TRILINEA. W.V. Norwich, Aldeby, Merton, Thetford, Wootton, Cawston; not as common as in most counties.
- HYDRILLA PALUSTRIS. Hüb. Of this excessively rare species I took a male specimen at a gas lamp in the city of Norwich, in June, 1869. I think there are not more than half-a-dozen other British specimens known.
- CARADRINA MORPHEUS. Hufn. Norwich, Aldeby, Thetford, Cawston, Horning; common.
- „ ALSINES. Bork. Norwich, Aldeby, Foxley, Cawston, Neatishead, Horning: not common.
- „ BLANDA. W.V. Norwich, Aldeby, Foxley, Hunstanton, Cawston, Horning; probably everywhere.
- „ CUBICULARIS. W.V. Common everywhere.
- RUSINA TENEBROSA. Hüb. Norwich, Aldeby, Merton, Cawston.
- AGROTIS VALLIGERA. W.V. Yarmouth, Hunstanton, Thetford, Brandon; abundant on the coast, and not less so on the ancient coast sands of Thetford and Brandon, where it seems to have, with several other species, existed unchanged from the time of the later post-glacial epoch.
- „ PUTA. Hüb. Norwich, Aldeby, Thetford, Hunstanton, Cawston; not common.
- „ SUFFUSA. W.V. Norwich, Yarmouth, Aldeby, Merton, Thetford, Cawston, Ranworth; probably everywhere.
- „ SAUCIA. Hüb. Norwich, Yarmouth, Aldeby, Thetford, Cawston; scarce. Recorded by Paget under the name of *aquat*.

- AGROTIS SEGETUM. W.V. Abundant everywhere. The larvæ of this and the next species sometimes do immense mischief to the turnip crop, by eating holes in the solid roots, and causing them to rot.
- „ EXCLAMATIONIS. Linn. Like the last, only too abundant.
- „ CORTICEA. W.V. Norwich, Merton, Thetford, Cawston, Horning; not rare, very dark varieties occasionally found.
- „ RIPEÆ. Hüb. Caistor near Yarmouth, and probably on the sand-hills along the coast; sometimes rather common. This is usually a rare or excessively local species.
- „ CURSORIA. Bork. Yarmouth, Caistor, Hunstanton; excessively abundant on the coast sands, but apparently not found on the old coast sands of the “Breck” district.
- „ NIGRICANS. Linn. Common everywhere; very variable.
- „ TRITICI. Linn. Norwich, Yarmouth, Brandon, Thetford, Hunstanton, Cawston, Horning; scarce, and dull in colour inland; abundant, and richly coloured on the coast, and also on the isolated sands of the “Breck” district. Recorded by Paget under the name of *pupillata*.
- „ AQUILINA. W.V. Norwich, Brandon, Thetford, Cawston, St. Faith's, Horning; sometimes plentiful.
- „ PORPHYREA. W.V. Very common on all heaths.
- „ PRÆCOX. Linn. Yarmouth, Caistor, Thetford; found on the coast sand-hills, and also rarely on the “Breck” sand.
- „ RAVIDA. W.V. Thetford, Hunstanton; very scarce. Recorded in Norfolk by Haworth and Stephens.
- „ PYROPHILA. W.V. Mr. T. Brown, of Cambridge, assures me that he once took a specimen near Yarmouth.
- TRIPHÆNA JANTHINA. W.V. Of general occurrence.
- „ FIMBRIA. Linn. Norwich, Geldestone, Merton, Thetford, Foxley, Ketteringham, Cawston, Foulsham; not very common.
- „ INTERJECTA. Hüb. Of general occurrence.

- TRIPHLENA SUBSEQUA. W.V. Thetford, Brandon, Yarmouth; scarce.
- „ ORBONA. Fab. Common everywhere.
- „ PRONUBA. Linn. Abundant everywhere.
- NOCTUA GLAREOSA. Esp. Aldeby, Thetford, Cawston, Neatishead; not common.
- „ AUGUR. Fab. Aldeby, Thetford, Cawston, Ranworth, Horning.
- „ PLECTA. Linn. Generally common.
- „ C-NIGRUM. Linn. Generally common.
- „ DITRAPEZIUM. Hüb. Foxley; very rare.
- „ TRIANGULUM. Ochs. Norwich, Aldeby, Merton, Thetford, Cawston, Horning; not very common.
- „ RHOMBOIDEA. Tr. Aldeby, Merton, Thetford; scarce.
- „ BRUNNEA. W.V. Aldeby, Merton, Foxley, Cawston, Horning, Neatishead; not very common.
- „ FESTIVA. W.V. Of general occurrence, but not so common as in many counties.
- „ DAHLII. Hüb. Aldeby, Wootton, Horning; scarce.
- „ RUBI. Vieweg. Norwich, Aldeby, Merton, Thetford, Foxley, Cawston, Horning, Ranworth; common in the fens.
- „ UMBROSA. Hüb. Norwich, Aldeby, Merton, Cawston, Hunstanton, Horsford, Horning, Ranworth; common in the fens.
- „ BAJA. W.V. Of general occurrence.
- „ XANTHOGRAPHIA. W.V. Abundant everywhere.
- TRACHEA PINIPERDA. Esp. Norwich, Merton, Thetford, Ketteringham, Heydon, Cawston, Neatishead; not common. Recorded in Norfolk by Curtis and Stephens.
- TÆNIOCAMPA. GOTHICA. Linn. Common everywhere.
- „ RUBRICOXA. W.V. Norwich, Aldeby, Beachamwell, Sparham, Cawston; not scarce.
- „ INSTABILIS. W.V. Common everywhere.
- „ POPULETI. Fab. Gillingham, Cawston; probably scarce, I have not seen it.
- „ STABILIS. W.V. Abundant everywhere.
- „ GRACILIS. W.V. Norwich, Aldeby, Thetford, Cawston; not scarce in marshy places.

- TÆNIOCAMPA MUNDA. W.V. Aldeby, Thetford, Cawston ; not common.
- „ CRUDA. W.V. Common everywhere. This, with the other species of the genus, is found in the early spring, frequenting the blossoms of *Salix caprea* at night.
- ORTHOZIA SUSPECTA. Hüb. Norwich, Thetford, Cawston ; scarce.
- „ UPSILON. W.V. Generally common among willows.
- „ LOTA. Linn. Norwich, Kirby Cane, Thetford, Cawston ; common.
- „ MACILENTA. Hüb. Norwich, Kirby Cane, Thetford, Cawston ; sometimes rather common.
- ANTHOCELIS RUFINA. Linn. Norwich, Kirby Cane, Thetford, Cawston, Stratton Strawless.
- „ PISTACINA. W.V. Common everywhere.
- „ LUNOSA. Haw. Norwich, Kirby Cane, Thetford, Cawston ; not very common.
- „ LITURA. Linn. Generally common.
- GLEA VACCINII. Linn. Abundant everywhere.
- „ SPADICEA. W.V. Generally common.
- SCOPELOSOMA SATELLITIA. Linn. Generally common.
- XANTHIA CITRAGO. Linn. Norwich, Kirby Cane, Cawston ; local, but sometimes common.
- „ CERAGO. W.V. Of general occurrence.
- „ SILAGO. Hüb. Norwich, Kirby Cane, Merton, Thetford, Cawston ; not very common.
- „ AURAGO. W.V. Norwich, Aldeby, Kirby Cane ; very scarce.
- „ GILVAGO. Esp. Norwich, Merton, Thetford, Croxton ; a very local species.
- „ FERRUGINEA. W.V. Common everywhere.
- CIRRÆDIA XERAMPHELINA. Hüb. Norwich, Gillingham, Merton, Thetford, Cawston ; local and scarce. Recorded at Costessey, near Norwich, in 1813, by Curtis ; and Stephens writes, “ Four or five only were known before 1827, of which three were taken in Norfolk.”
- TETHEA SUBTUSA. W.V. Norwich, Cawston ; scarce.
- „ RETUSA. Linn. Horning, Ranworth ; very scarce.

- COSMIA TRAPEZINA. Linn. Common everywhere.  
 „ DIFFINIS. Linn. Gillingham, Thetford, Ketteringham,  
 Kimberley, Lynn, Cawston; rather local,  
 among elm.  
 „ AFFINIS. Linn. Norwich, Gillingham, Thetford, Ket-  
 teringham, Lynn, Cawston, Neatishead; not  
 common.  
 EREMOBIA OCHROLEUCA. W.V. Norwich, Aldeby, Thetford;  
 scarce. Recorded in Norfolk by Stephens.  
 DIANTHOCIA CARPOPHAGA. Bork. Norwich, Merton, Thetford,  
 Croxton, Foxley, Cawston, Cromer; rather  
 common in the "Breck" district, among *Silene*  
*inflata*.  
 „ CAPSINCOLA. W.V. Common everywhere among *Lychnis*  
*diurna* and *vespertina*.  
 „ CUCUBALI. W.V. Norwich, Aldeby, Thetford, Cawston,  
 Horning, Ranworth; common among *Lychnis*  
*flos-cuculi* in the fens.  
 „ CONSPERSA. W.V. Aldeby, Geldestone, Thetford, Ket-  
 teringham, Horning; scarce.  
 HECATERA DYSODEA. W.V. Norwich, Aldeby, Thetford, Cawston;  
 local. Very fond of the blossoms of the  
 common red valerian, (*Centranthus ruber*.)  
 „ SERENA. W.V. Of general occurrence.  
 POLIA FLAVOCINCTA. Linn. Norwich, Kirby Cane, Thetford,  
 Lynn, Horning; recorded by Paget at Yarmouth.  
 EPUNDA VIMINALIS. Fab. Aldeby, Merton, Cawston, Ranworth,  
 Horning; not common.  
 MISELIA OXYACANTHÆ. Linn. Common everywhere.  
 AGRIOPIS APRILINA. Linn. Generally common among oaks.  
 PHILOGOPHORA METICULOSA. Linn. Common everywhere.  
 EUPLEXIA LUCIPARA. Linn. Of general occurrence.  
 APLECTA HERBIDA. W.V. Cawston, Foulsham, Neatishead; abun-  
 dant at Foxley: very local. Recorded in  
 Norfolk by Haworth, Stephens, and Wood.  
 „ OCCULTA. Linn. Yarmouth, Geldestone, Thetford, Foulsh-  
 am; scarce.  
 „ NEBULOSA Tr. St. Faith's, Cawston, Foulsham, Horning,  
 Thetford; apparently not very common.

- APLECTA ADVENA. W.V. Aldeby, Thetford, Foxley, Ketteringham, Cawston, Foulsham; rather local. Recorded in Norfolk by Haworth, Curtis, Stephens, and Wood, but under the name of *nitens*.
- HADENA ADUSTA. Esp. Aldeby, Horning; large and abundant at Foxley; elsewhere scarce.
- „ PROTEA. W.V. Norwich, Aldeby, Thetford, Cawston.
- „ DENTINA. W.V. Of general occurrence.
- „ CHENOPODII. W.V. Norwich, Thetford, Brandon, Cawston; common in the "Breck" district.
- „ ATRIPLICIS. Linn. Thetford; scarce.
- „ SUASA. W.V. Norwich, Yarmouth, Aldeby, Thetford, Cawston, Ranworth, Horning; not common. Recorded by Stephens and Wood.
- „ OLERACEA. Linn. Abundant everywhere.
- „ PISI. Linn. Of general occurrence.
- „ THALASSINA. Sch. Norwich, Aldeby, Thetford, Lynn, Cawston; apparently not common.
- „ GENISTÆ. Bork. Thetford, Brandon, Horsford; scarce.
- XYLOCAMPA LITHORIZA. Bork. Norwich, Thetford, Lynn, Cawston, Sparham, Horsford, Coltishall; not common.
- CLOANTHA PERSPICILLARIS. Linn. The capture of a single specimen at Yarmouth was announced in the "Entomologist," 1st series, p. 128, (1841.) I have heard of no subsequent capture, but the insect is excessively rare throughout the country.
- CALOCAMPA VETUSTA. Hüb. Thetford, Cawston; scarce.
- „ EXOLETA. Linn. Norwich, Gillingham, Thetford, Wootton, Cawston, Stratton Strawless. Recorded by Paget at Ormesby and Runham.
- XYLINA RHIZOLITHA. W.V. Norwich, Kirby Cane, Thetford, Cawston; not common.
- CUCULLIA VERBASCI. Linn. Norwich, Aldeby, Merton, Thetford, Lynn, Sparham, Cawston, Horning; common. Very seldom observed in the perfect state, but its larva is exceedingly common on *Verbascum thapsus* and *pulverulentum*.
- „ LYCHNITIS. Ramb. Aldeby. Recorded by Mr. Crowfoot.

CUCULLIA ASTERIS. W.V. Stephens states that it has occurred in Norfolk, but gives no locality, nor do I know of any instance.

„ CHAMOMILLÆ. W.V. Apparently rare in the county. I know of but one specimen, which was taken at Norwich.

„ UMBRATICA. Linn. Norwich, Yarmouth, Broome, Merton, Thetford, Lynn, Horning; not very common. Recorded by Paget under the name of *lactuceæ*.

HELIOTHIS MARGINATA. Fab. Caistor near Yarmouth, Thetford, Cromer; scarce. Recorded at Caistor by both Curtis and Paget.

„ DIPSACEA. Linn. Yarmouth, Merton, Thetford, Brandon; very local. According to Paget it was formerly common at Caistor rails.

[ANARTA CORDIGERA. Thunb.] Recorded under the name of *albirena* by Haworth (1803) p. 163, as follows: "Habitat on Norfolk heaths, but very rare. Only one specimen seen, which was sent by the Rev. J. Burrell, F.L.S., F.E.S., an unwearied collector of Norfolk insects." Curtis, in his "British Entomology," says: "Taken in Norfolk by the late Mr. Burrell, and preserved in the cabinet of A. H. Haworth, Esq." . . . . . "it appears merely a variety of *myrtilli* having the wings fuscous instead of crimson ferruginous."

This disposes of this species entirely, as the specimen in question was clearly a variety of *myrtilli*, *cordigera* being a very different insect, and only found on mountain heaths in the North.

„ MYRTILLI. Linn. Norwich, Thetford, Horsford, Cawston, Upgate, Wolferton, Neatishead; on heaths.

HELIODES ARBUTI. Fab. Broome, Cawston; not common.

AGROPHILA SULPHURALIS. W.V. Merton, Diddlington, Croxton, Brandon; confined to the sands of the "Breck" district, where it is rather common among

*Convolvulus arvensis*. Found also in Suffolk and Cambridgeshire, but a great rarity in the rest of the kingdom.

ACONTIA LUCTUOSA. W.V. Merton, Thetford; also confined to the "Breck" district in this county, but not scarce on the chalk of the South of England.

ERASTRIA FUSCULA. W.V. Merton, Foxley, Foulsham, St. Faith's; generally found in fir woods.

BANKIA ARGENTULA. Esp. Curtis, in his "British Entomology," says:—"Taken at the end of June among reeds and rushes in bogs in Norfolk, by Mr. Haworth;" and Wood ("Index Entomologicus") gives a similar account, as also does Westwood in his "British Moths." Mr. Haworth, however, does not mention this in his work, whence I conclude that he had not met with the insect at the time when he wrote, but a MS. note in a copy of his work, which formerly belonged to Mr. N. A. Vigers, reads thus:—"A pair were given to me by Mr. Haworth, which were taken in Norfolk." This is evidently in Mr. Vigers's handwriting, and decidedly confirms Curtis's account. Mr. Stainton, in his "Manual," gives the locality in which Haworth took his specimens—Beachamwell—and this Mr. Doubleday has confirmed, so that I feel no doubt that the insect actually was to be found in Norfolk fifty or sixty years ago. As far as I know nobody has collected at Beachamwell since the time of Messrs. Haworth and Scales, so that it is impossible to say whether this very local species still lingers there, or has—like *Liparis dispar*—totally disappeared. It formerly occurred at Whittlesea Mere, but the only locality in the United Kingdom in which, as far as I know, it is now to be found, is in the bogs of Killarney, in the South West of Ireland.

- HYDRELIA UNCA. Linn. Aldeby, Merton, Cawston, Hoveton, Horning, Ranworth, Surlingham; common in the fens now as in Haworth's time. Though not so scarce as the last species, it is hardly found commonly out of the fens except with *argentula* at Killarney.
- BREPHOS PARTHENIAS. Linn. Thetford, Neatishead; not common.
- „ NOTHA. Hüb. Horsford; rare. I have seen a specimen taken by Mr. Sayer.
- ABROSTOLA URTICÆ. Hüb. Of general occurrence.
- „ TRIPLASIA. Linn. Thetford, Cawston, Horning; not common.
- PLUSIA ORICHALCEA. Hüb. Curtis, in his "British Entomology," states that it was taken at "Hethersett in August, by H. Brown, Esq.," and there is a MS. note to the same effect in the handwriting of Mr. Vigers, in the copy of "Haworth's Lepidoptera Britannica," which formerly belonged to him. I know of no recent capture in the county, and the species is very rare elsewhere.
- „ CHRYSITIS. Linn. Generally common.
- „ FESTUCÆ. Linn. Norwich, Yarmouth, Gillingham, Merton, Ketteringham, Cawston, Horning, Wroxham; rather common in the fens flying about flowers of *Lythrum salicaria*.
- „ IOTA. Linn. Norwich, Yarmouth, Aldeby, Merton, Thetford, Foxley, Lynn, Cawston, Horning; not common.
- „ V-AUREUM. Gn. Norwich, Aldeby, Foxley, Sparham, Cawston; scarce.
- „ GAMMA. Linn. Abundant everywhere.
- GONOPTERA LIBATRIX, Linn. Generally common.
- AMPHIPYRA PYRAMIDEA. Linn. Norwich, Yarmouth, Broome, Merton, Thetford, Ketteringham; sometimes common.
- „ TRAGOPOGONIS. Linn. Generally common.
- MANIA TYPICA. Linn. Common everywhere.
- „ MAURA. Linn. Norwich, Aldeby, Merton, Thetford, Sparham, Horning; common.

- TOXOCAMPA PASTINUM*. Tr. Aldeby, Thetford, Merton, Cawston, Neatishead ; not common.
- CATOCALA FRAXINI*. Linn. A specimen of this rare and magnificent species is recorded by Lord Walsingham as having occurred at Holkham, and the Rev. T. H. Marsh records the capture of one at Cawston. Paget says, "One specimen in a garden by the North gates, (Yarmouth) now in Mr. Sparshall's cabinet." I regret to say, that this specimen does not appear to have come, with the remainder of Mr. Sparshall's collection, into the possession of the Norfolk and Norwich Museum.
- „ *NUPTA*. Linn. Norwich, Yarmouth, Geldestone, Merton, Thetford, Lynn district, Sparham, Neatishead ; sometimes common.
- „ *PROMISSA*. W.V. Foxley, Foulsham ; a splendid species and very local, but sometimes plentiful in its favourite localities. Mr. Vigers in a MS. note in Haworth's Lep. Brit., states that a specimen in his collection was taken by Miss Browne, at Hethersett.
- EUCLIDIA MI*. Linn. Norwich, Aldeby, Merton, Thetford, Cawston, Horsford, Ranworth, Horning, Neatishead, Winterton ; not common.
- „ *GLYPHICA*. Linn. Aldeby, Merton, Cawston, Heydon, Horning, Neatishead ; uncommon.
- PHYTOMETRA ÆNEA*. W.V. Merton, Holt heath, Wootton, Cawston, Horsford ; not common.

## DELTOIDES.

- HYPENA PROBOSCICALIS*. Linn. Abundant everywhere.
- „ *ROSTRALIS*. Linn. Norwich, Aldeby, Thetford, Lynn, Horning ; not very plentiful.
- HYPENODES ALBISTRIGALIS*. Haw. Aldeby, Merton, Ranworth ; scarce.
- „ *COSTÆSTRIGALIS*. Steph. Merton, Cawston, Horning, Ranworth ; scarce. Stephens in his "Illustrations," states that it was taken at Swaffham by Mr. Haworth.

- RIVULA SERICEALIS. W.V. Norwich, Brooke, Surlingham, Aldeby Merton, Barton Bendish, Ketteringham, Cawston; probably in marshes and damp woods generally.
- HERMINIA BARBALIS. Linn. Foulsham, Cawston, Horning; not common.
- „ TARSIPENNALIS. Tr. Norwich, Aldeby, Thetford, Lynn, Ketteringham, Cawston, Horning; common.
- „ GRISEALIS. W.V. Norwich, Aldeby, Merton, Lynn, Cawston, Neatishead; not very common.
- „ CRIBRALIS. Hüb. Diss, Aldeby, Merton, Horning, Ranworth; only in the fens and marshes.

## AVENTILE.

- AVENTIA FLEXULA. Fab. Norwich, Chedgrave, Merton, Thetford, Neatishead; scarce.

## PYRALIDES.

- PYRALIS FIMBRIALIS. W.V. Merton, Cawston, Horning; scarce.
- „ FARINALIS. Linn. Abundant everywhere, in stables and granaries, its larva feeding on grain and meal.
- „ GLAUCINALIS. Linn. Of general occurrence.
- AGLOSSA PINGUINALIS. Linn. Abundant everywhere in houses and granaries.
- PYRAUSTA PURPURALIS. Linn. Aldeby, Ketteringham, Booton, Cawston, St. Faith's, Horsford, Ranworth.
- HERBULA CESPITALIS. W.V. Norwich, Aldeby, Merton, Thetford, Wootton, Ringland; rather common.
- ACENTROPUS NIVEUS. Oliv. Brandon, Merton, Ranworth; probably on weedy ponds, broads, and rivers generally.
- CATACLYSTA LEMNALIS. Linn. Common everywhere about ditches and streams. Swarming in the fen drains.
- PARAPONYX STRATIOTALIS. Linn. Generally common about the rivers, broads, and drains.
- HYDROCAMPA NYMPHEALIS. Linn. Common about streams and ditches everywhere.

- HYDROCAMPA STAGNALIS. Don. Also pretty common about rivers and drains.
- BOTYS PANDALIS. Hüb. Merton ; taken by Lord Walsingham.
- „ FLAVALIS. W.V. (?) Stephens in his "Illustrations," says, "Rather abundant at Halvergate, Norfolk." And the Rev. T. H. Marsh records it as rare at Cawston. I have seen no Norfolk specimen, and do not think it a likely species to occur here. It is locally abundant in the Isle of Wight, and some parts of the south coast.
- „ HYALINALIS. Hüb. Merton, Thetford ; a scarce species.
- „ VERTICALIS. W.V. Abundant everywhere among nettles.
- „ LANCEALIS. W.V. Aldeby, Barton Bendish ; very local. Recorded at Beachamwell by Stephens, on Mr. Haworth's authority.
- „ FUSCALIS. W.V. Aldeby, Merton, Ketteringham, Cawston, Ranworth ; rather common.
- „ URTICALIS. Linn. Abundant among nettles everywhere.
- EBULEA CROCEALIS. Tr. Norwich, Gillingham, Thetford, Cawston, Barton, Hunstanton ; among *Inula dysenterica*.
- „ VERBASCALIS. W.V. Near Norwich, Aldeby, Cawston, St. Faith's ; among *Teucrium scorodonia* ; local.
- „ SAMBUCALIS. W.V. Norwich, Yarmouth, Aldeby, Thetford, Lynn, Cawston ; among elder.
- LEMIODES PULVERALIS. Hüb. A single specimen of this rare species has occurred at Ranworth. With the exception of a few specimens taken at Folkstone, and the Isle of Wight, within the last four years, I know of no other British examples.
- PIONEA FORFICALIS. Linn. Abundant everywhere in gardens.
- „ MARGARITALIS. Fab. Recorded at Beachamwell by Stephens, and also by Curtis, but I know of no recent captures. It is, however, found in the Cambridge fens.
- PIONEA STRAMENTALIS. Hüb. Norwich, Aldeby, Merton, Wootton, Cawston, Horsford, Coltishall, Ranworth ; local, but probably found in all fens and marshes.

- SPILODES STICTICALIS*. Linn. Merton, Thetford, Brandon, Beachamwell according to Stephens. Pretty common in the "Breck" sand district, but apparently not found elsewhere in the county, and rare throughout England.
- „ *PALEALIS*. W.V. Recorded in Norfolk by Curtis, Stephens, and Wood, but I know of no recent captures. If it is now an inhabitant of the county, it will probably be upon some part of the coast. It is a very rare species, most of the recent British specimens having been taken near Folkestone, in Kent.
- „ *CINCTALIS*. Tr. Generally common in clover fields.
- SCOPULA LUTEALIS*. Haw. Norwich, Aldeby, Ketteringham, Lynn, Cawston : apparently not common.
- „ *OLIVALIS*. W.V. Common everywhere.
- „ *PRUNALIS*. W.V. Abundant everywhere.
- „ *FERRUGALIS*. Hüb. Norwich, Aldeby, Merton, Cawston, Cromer ; not common.
- STENOPTERYX HYBRIDALIS*. Hüb. Of general occurrence.
- EUDOREA AMBIGUALIS*. Tr. Norwich, Aldeby, Cawston, Lynn ; doubtless everywhere.
- „ *BASISTRIGALIS*. Knaggs. Near Norwich, Aldeby ; not common.
- „ *CEMBRE*. Haw. Norwich, Aldeby, Wootton, Cawston, Hunstanton ; not common.
- „ *DUBITALIS*. Hüb. (*PYRALELLA*, W.V.) Norwich, Aldeby, Roydon, Cawston ; probably everywhere.
- „ *LINEOLA*. Curt. Norwich, among old and lichen-covered bushes of blackthorn and hawthorn ; very local.
- „ *MERCURELLA*. Linn. Norwich, Yarmouth, Horsford ; common.
- „ *CRATEGELLA*. Hüb. Norwich, Cawston ; local.
- „ *RESINEA*. Haw. Norwich, on ash trunks ; very local.
- „ *TRUNCICOLELLA*. Stn. Near Norwich, Horsford, Cawston, on fir trunks ; local.
- „ *COARCTALIS*. Zell. (*ANGUSTEA*, Curt.) Norwich, on mossy walls ; local.
- „ *PALLIDA*. Curt. Norwich, Aldeby, Merton, Ranworth, Horning ; very abundant in the fens.

## CRAMBITES.

- PLATYTES CERUSSELLUS. W.V. Merton, Brandon, Wootton ; very local, but abundant where it occurs.
- CRAMBUS ALPINELLUS. Hüb. One specimen at Yarmouth Denes in 1873. A rare species in England, previously only found near Portsmouth.
- „ FALSELLUS. W.V. Brandon, Cawston, Ranworth ; scarce.
- „ PRATELLUS. Linn. Abundant everywhere.
- „ SYLVELLUS. Hüb. (ADIPELLUS, Tr.) Horning and Ranworth ; very local, but not scarce in the fens.
- „ PASCUELLUS. Linn. Abundant everywhere.
- „ ULIGINOSELLUS. Zell. Norwich, Ranworth, Horning, St. Faith's ; very local, but common in the fens.
- „ PINETELLUS. Linn. Norwich, Surlingham, Headley, near Beccles, Merton, Brandon, Cawston ; not very common.
- „ LATISTRIUS. Haw. Norwich, Cawston ; abundant on the Denes near Yarmouth.
- „ PERLELLUS. Scop. Generally common. Recorded in Norfolk by Haworth, under the name of *baccæstria*.
- „ WARRINGTONELLUS. Zell. Brandon, Wootton ; apparently rare. An unexpected species in this county, its home being the mosses and moors of Lancashire and the north.
- „ SELASELLUS. Hüb. Norwich, Surlingham, Gillingham, Cawston, Ranworth, Horning ; local, but common in the fens.
- „ TRISTELLUS. W.V. Abundant everywhere.
- „ FASCELINELLUS. Hüb. (PEDRIOLELLUS, Dup.) Yarmouth. This is the only locality known in the United Kingdom for this handsome Crambus. Its larva feeds under the sand of the Denes, on the roots and stems of *Triticum junceum*, living in a silken tube.
- CRAMBUS INQUINATELLUS. W.V. Generally common.
- „ GENICULEUS. Haw. Norwich, Brandon, Cawston, Horning ; probably everywhere.

- CRAMBUS CULMELLUS. Linn. Abundant everywhere
- „ CHRYSONUCHELLUS. Scop. Merton, Thetford, Brandon ;  
very local.
- „ HORTUELLUS. Hüb. Abundant everywhere.
- „ PALUDELLUS. Hüb. Ranworth, Horning ; very local,  
but probably found in all the fens of the Bure  
and its tributaries. It is not known to  
occur in any other part of the United Kingdom.
- CHILO PHIRAGMITELLUS. Hüb. Norwich, Merton, Cawston, Ket-  
teringham, Ranworth, Barton Turf ; probably  
in all the fens and marshes.
- SCHENOBIVS FORFICELLUS. Thunb. Norwich, Aldeby, Brandon,  
Horning, Ranworth ; probably in weedy ditches  
and drains everywhere.
- „ MUCRONELLUS. Scop. Norwich, Cawston, Barton Turf,  
Horning, Ranworth ; probably in all the fens,  
but otherwise a rare and very local species.
- „ GIGANTELLUS. W.V. Diss, Barton Turf, Horning,  
Ranworth ; very local, but probably in all the  
fens.
- ANERASTIA LOTELLA. Hüb. Yarmouth, Brandon, on the sand  
hills of the coast, and also on the ancient sea  
sands of the "Breck" district.
- „ FARRELLA. Curt. The original specimens of this species  
were taken by a Mr. Farr, who collected in  
Norfolk about thirty years ago. He went to  
London about 1844, and afterwards died ; it is  
therefore impossible now to ascertain the exact  
locality of his specimens, but they appear to  
have been taken either near Yarmouth or  
Lowestoft. Probably the species is to be  
found on the sands of the Norfolk and Suffolk  
coast
- ILITHYIA CARNELLA. Linn. Horning ; a single specimen taken by  
Mr. Eedle, and now in Lord Walsingham's  
collection.
- MYELOPHILA CRIBRELLA. Hüb. Merton, Thetford, Brandon ; very  
local. The larva feeding in old stems of  
*Carduus lanceolatus* and *Onopordum acanthium*.

- HOMŒOSOMA NIMBELLA. Dup. Abundant among *Jasione montana* on the Denes at Yarmouth.
- „ SENEACIONIS. Vaughan. Norwich ; apparently scarce.
- „ NEBULELLA. Hüb. Norwich, Merton, Brandon, Horning ; among *Carduus nutans* ; very local.
- „ ELUVIELLA. Gn. Merton, Brandon ; very local.
- NYCTEGRETES ACHATINELLA. Hüb. Not scarce on the Denes near Yarmouth, but exceedingly local, and until last summer supposed to be excessively rare. I have seen a specimen from the coast of Suffolk, and think it probable that the species will be found in suitable localities all along the coast of the Eastern counties. Elsewhere it seems only to have been found at Folkestone in this country.
- EPHESTIA ELUTELLA. Hüb. Norwich ; very abundant in grocers' warehouses, where its larva feeds on currants, figs, &c. Probably in similar situations everywhere.
- „ FICELLA. Dougl. Norwich ; in corn and seed warehouses among oilcake, &c.
- „ SEMIRUFA. Haw. I took a specimen, which is supposed to be of the species intended by Haworth, at Norwich, but am not satisfied about it.
- „ PINGUIS. Haw. Norwich, Cawston, on ash trunks ; not common.
- „ ARTEMESIELLA. Steph. Norwich ; rare.
- CRYPTOBLABES BISTRIGA. Haw. Horning ; rare. Two specimens taken here by Mr. Eedle, are in Lord Walsingham's collection. They seem to be larger than those taken in the south of England. It is also recorded in Norfolk by Haworth. (Lep. Brit. 496.)
- PLODIA INTERPUNCTELLA. Hüb. Norwich ; abundant in corn and seed warehouses, where the larva feeds on the grain, &c., showing a special partiality for malt and locust beans.
- PHYCIS CARBONARIELLA. Fisch. Near Norwich, on heaths ; not common.

- PHYCIS ABIETELLA. W.V. Norwich, Merton, Cawston, and doubtless Brandon, as it is more common there on the Suffolk side of the river than I ever saw it elsewhere. Usually a rare species.
- „ ROBORELLA. W.V. Norwich, Merton, Horsford; not common.
- PEMPELIA PALUMBELLA. W.V. Norwich, Horsford, St. Faith's, Cawston; probably on all heaths.
- RHODOPILEA FORMOSA. Haw. Norwich, Cawston; scarce.
- „ CONSOCIELLA. Hüb. Norwich, Merton, Cawston; not common.
- „ ADVENELLA. Zinck. Norwich, Cawston; not common.
- „ MARMOREA. Haw. Norwich; scarce.
- „ SUAVELLA. Zinck. Norwich, Cawston, Horsford; scarce.
- ONCOCERA AHENELLA. W.V. Merton, Brandon; scarce.
- APHOMIA SOCIELLA. Linn. Generally common.
- „ ANELLA. W.V. Yarmouth. A specimen from this locality has been seen by Mr. F. Bond.
- GALLERIA CEREANA. Linn. Norwich, Thetford, Wootton; scarce.  
Recorded in Norfolk by Stephens.
- MELIPHORA ALVEARIELLA. Gn. Thetford. The Rev. H. Williams tells me that this species is very destructive to the bee-hives in his neighbourhood.

## TORTRICES.

- HALIAS PRASINANA. Linn. Norwich, Merton, Ketteringham, St. Faith's, Horsford, Horning; not scarce.
- „ QUERCANA. W.V. Merton, Horsford; scarce.
- „ CHLORANA. Linn. Ranworth, Horning, Barton Turf; probably in all the fens. Recorded at Norwich by Curtis and Stephens.
- SARROTHRIPA REVAYANA. W.V. Merton, Cawston, Horsford; scarce.
- TORTRIX PYRASTRANA. Hüb. (PODANA, Scop.) Common everywhere. Recorded by Paget under the names of *fulvana* and *oporana*.
- „ XYLOSTEANA. Linn. Common everywhere.
- „ SORBIANA. Hüb. Norwich, Merton, Cawston.

- TORTRIX ROSANA. Linn. Abundant everywhere.
- „ CINNAMOMEANA. Tr. Easton, Cawston; scarce.
- „ HEPARANA. W.V. Common everywhere.
- „ RIBEANA. Hüb. Abundant everywhere.
- „ CORYLANA. Hüb. Norwich, Merton, Cawston, St. Faith's, Horning.
- „ UNIFASCIANA. Dup. Abundant everywhere.
- „ COSTANA. W.V. Norwich, Aldeby, Merton, Brandon, Barton, Ranworth; probably in all the fens; very common.
- „ VIBURNANA. W.V. St. Faith's, on boggy heaths.
- „ ICTERANA. Fröl. Aldeby, Merton, Cromer; local.
- „ VIRIDANA. Linn. Abundant everywhere.
- „ MINISTRANA. Linn. Norwich, Merton, Mintlyn, St. Faith's; not very common.
- „ ADJUNCTANA. Tr. (FORSTERANA, Dup.) Norwich, Merton, Barton; probably everywhere.
- DICHELIA GROTIANA. Fab. Horning; taken by Mr. Eedle. Doubtless at Brandon, as it is not uncommon on the Suffolk side of the river.
- LEPTOGRAMMA LITERANA. Linn. Merton, Cawston; scarce.
- PERONEA SPONSANA. Fab. (FAVILLACEANA, Hüb.) Norwich, Merton; among beech.
- „ MIXTANA. Hüb. Merton, Horsford; on heaths.
- „ SCHALLERIANA. Linn. Merton, Cawston, Wootton, St. Faith's, Ranworth; in fens among willow.
- „ COMPARANA. Hüb. Ketteringham, Ranworth; not common.
- „ COMARIANA. Zell. (PROTEANA, H.S., POTENTILLANA, Cooke.) Merton, St. Faith's, Ranworth; among *Comarum palustre*, in the fens and marshes.
- „ VARIEGANA. W.V. Common everywhere.
- „ CRISTANA. W.V. Cawston; recorded in Norfolk by Stephens and Wood.
- „ HASTIANA. Linn. Norwich, Merton, Cawston, St. Faith's, Ranworth; rather common, its larva feeding in rolled leaves of different species of *salix*.

- PERONEA FERRUGANA. W.V. Norwich, Merton; not common.  
Recorded by Haworth.
- „ TRISTANA. Hüb. (LOGIANA, W.V.) Ranworth.
- „ ASPERSANA. Hüb. Norwich, Surlingham, Merton,  
Cawston; probably in all the fens; the larva  
feeding on *Spiraea ulmaria*.
- „ SHEPHERDANA. Steph. Norwich, Surlingham, Merton,  
Ranworth, Horning; probably in all the fens;  
its larva feeding in tops of *Spiraea ulmaria*,  
rather later than that of *aspersana*.
- TERAS CAUDANA. Fab. Merton, Cawston, Horning, Ranworth;  
common in the fens.
- „ CONTAMINANA. Hüb. Abundant everywhere among  
Hawthorn. Recorded by Paget under the  
name of *ciliata*.
- DICTYOPTERYX LÆFLINGIANA. Linn. Norwich, Merton; common.
- „ HOLMIANA. Linn. Generally common in hawthorn  
hedges.
- „ BERGMANNIANA. Linn. Common everywhere among  
rose bushes.
- „ FORSKALEANA. Linn. Norwich, Merton, Cawston, Bar-  
ton Bendish; common among maple.
- ARGYROTOZA CONWAYANA. Fab. Norwich, Merton, Cawston, Cos-  
tessey; probably everywhere.
- PTYCHOLOMA LECHEANA. Linn. Merton.
- DITULA SEMIFASCIANA. Haw. Merton, Ranworth, Horning; among  
sallow; not common
- PENTHINA PICANA. Fröl. (CORTICANA, Hüb.) Merton, Wootton,  
Cawston, Costessey, Horning; not common.
- „ BETULETANA. Haw. Norwich, Merton, Lym, St.  
Faith's, Ranworth; among birch.
- „ PRELONGANA. Gn. Merton; scarce.
- „ PRUNIANA. Hüb. Common everywhere.
- „ OCHROLEUCANA. Hüb. Norwich, Ketteringham, Caw-  
ston, Horning; scarce.
- „ CYNOSBANA. D.L. (VARIEGANA, Hüb.) Common every-  
where.
- „ MARGINANA. Haw. Merton, Cawston, Ranworth, St.  
Faith's; common in heaths and fens.

- PENTHINA CARBONANA. Dbl. (FULIGANA, Hüb.) Recorded as occurring in Norfolk by Haworth, Curtis, Stephens, and Wood, but I know of no recent captures. It occurs in the Cambridge fens.
- ANTITHESIA SALICELLA. Linn. Merton; scarce.
- SPILONOTA OCELLANA. W.V. Norwich, Merton, Raekheath; probably common everywhere.
- „ LARICIANA. Zell. Norwich, doubtless also at Brandon, where it occurs freely on the Suffolk side of the river.
- „ ACERIANA. Mann. Norwich, Yarmouth; among poplars.
- „ DEALBANA. Fröl. Norwich, Raekheath, Merton; probably everywhere in woods.
- „ NEGLECTANA. Dup. Norwich; among poplar.
- „ AMENANA. Dup. (INCARNATANA, Hüb.) Merton; rare.
- „ SUFFUSANA. Kollar. (TRIMACULANA, Haw.) Norwich, Merton, Lynn; common among hawthorn.
- „ ROSÆCOLANA. Dbl. Norwich, Cawston; among roses, generally in gardens.
- „ ROBORANA. W.V. (CYNOSBANA, Fab.) Norwich, Merton, Cawston; probably common everywhere.
- PARDIA TRIPUNCTANA. W.V. Norwich, Yarmouth, Merton, Gaywood; probably everywhere.
- ASPIS UDMANNIANA. Linn. Norwich, Merton, Cawston, Wootton; among bramble.
- SIDERIA ACHATANA. W.V. Recorded in Norfolk by Stephens, under the name of *marmorana*. Probably correctly, as it is found among hawthorn and sloe in the London district.
- SERICORIS BIFASCIANA. Haw. Norwich; among fir; scarce.
- „ FULIGANA. Haw. Recorded in Norfolk by Stephens, but possibly in error for *Penthina fuligana*, or for *Sericoris cespitana*. This species is said to be found among *Fleabane* (*Pulicaria dysenterica*), and may probably yet be found in North Norfolk.
- „ DOUBLEDAYANA. Barrett. Ranworth, Horning; not scarce. Discovered in these fens two years

ago, and not known to occur elsewhere in the united kingdom.

- SERICORIS CESPITANA. Hüb. Yarmouth, Merton, and doubtless at Brandon, where it is common on the Suffolk side of the river. Wood's figure of *fuligana* which he records in Norfolk seems to represent this species.
- „ CONCHANA. Hüb. Norwich, Surlingham, Merton, Ranworth; common in marshes.
- „ LACUNANA. W.V. Abundant everywhere. A curious variety—smoky black with lustrous lines—is found in the fens and marshes, and has been mistaken for *herbana*, Gn., and a small variety has also been taken for *rurestrana*, Dup.
- „ URTICANA. Hüb. Norwich, Plumstead, Merton; probably everywhere.
- „ MICANA. Hüb. Merton, Horning, Ranworth; in marshes. Recorded in Norfolk by Haworth under the name of *pinetana*, and by Stephens under that of *haworthana*.
- MIXODIA RATZBURGHIANA. Sax. Merton; among fir.
- EUCHROMIA MYGINDANA. W.V. (FLAMMEANA, Fröl.) Cawston (?) Recorded in Norfolk under the name of *fulvipunctana*, by Haworth, Stephens, and Wood.
- „ PURPURANA. Haw. Cawston (?) Recorded also by Stephens and Wood, but I have had no opportunity of identifying either this or the last species.
- ORTHOTENIA ANTIQUANA. Hüb. Cawston (?) Recorded by Stephens and Wood, and also by Haworth under the name of *quadrimaculana*. This also I have not seen.
- „ STRIANA. W.V. Norwich, Yarmouth; common.
- „ ERICETANA. Bent. Near Norwich; scarce.
- ERIOPELA FRACTIFASCIANA. Haw. Merton; probably also at Brandon, where it has occurred on the Suffolk side. This is one of the chalk insects which seems to be either struggling to obtain a footing in this district or else dying out. It abounds in the chalk downs of the South of England.

- PHITHEOCHROA RUGOSANA. Hüb. Norwich, Merton ; among  
*Bryonia dioica*.
- CNEPHASIA LEPIDANA. Curt. St. Faith's ; on heaths.
- „ MUSCULANA. Hüb. Norwich, Merton ; probably every-  
where.
- SCIAPHILA NUBILANA. Hüb. Norwich ; among hawthorn.
- „ SUBJECTANA. Gn. Norwich, Merton ; doubtless common  
everywhere.
- „ VIRGAUREANA. Tr. Norwich, Merton ; probably every-  
where.
- „ ALTERNANA. W.V. Norwich ; not common.
- „ HYBRIDANA. Hüb. Norwich, Merton, Wootton ; prob-  
ably everywhere.
- SPHALEROPTERA ICTERICANA. Haw. (LONGANA, Haw.) Yar-  
mouth ; common on the Dencs.
- CLEPSIS RUSTICANA. Tr. Merton, Horning, Ranworth ; common  
in the fens.
- BACTRA LANCEOLANA. Hüb. Norwich, Aldeby, Merton, Cawston ;  
doubtless everywhere among rushes.
- PHOXOPTERYX SICULANA. Hüb. Cawston, Ranworth ; uncommon.
- „ UNGUICANA. Linn. Merton, St. Faith's ; scarce.
- „ BIARCUANA. Steph. Merton, Lynn, Wootton, Ran-  
worth ; scarce.
- „ INORNATANA. H.S. (SUBARCUANA, Wilk.) Merton,  
Ranworth ; scarce, and very local in the  
fens.
- „ PALUDANA. Barrett. Ranworth, Horning ; very local,  
but not rare. Only recognised as a distinct  
species about two years ago, and apparently  
confined to the fens.
- „ LUNDANA. Fab. Generally common.
- „ DERASANA. Hüb. Merton ; scarce.
- „ DIMINUTANA. Haw. Merton, Ranworth ; scarce.
- „ MITTERBACHERIANA. W.V. Merton, Cawston, St. Faith's ;  
not very common.
- GRAPHOLITA PAYKULLIANA. Fab. (RAMELLA, Linn.) Norwich,  
Merton, Cawston ; among birch.
- „ NISELLA. Linn. (NISANA, D.L.) Merton, Ranworth ;  
among sallow ; local.

- GRAPHOLITA NIGROMACULANA. Haw. Norwich, Cawston ; among ragwort ; not common.
- „ CAMPOLILIANA. W.V. Merton, St. Faith's ; among willow.
- „ MINUTANA. Hüb. Yarmouth ; on poplar.
- „ TRIMACULANA. Don. Common everywhere among elm.
- „ PENKLERIANA. W.V. Common among alder.
- „ OBTUSANA. Haw. Merton, Foxley ; scarce.
- „ NEVANA. Hüb. Norwich, Merton, St. Faith's, Horning ; probably everywhere among holly.
- PHLEODES TETRAQUETRANA. Haw. Merton, St. Faith's, Ranworth ; probably everywhere in woods.
- „ IMMUNDANA. Fisch. Norwich, Merton, St. Faith's, Ranworth ; among alder ; occasionally common.
- „ CRENANA. Hüb. I have seen a specimen which was said to have been taken near Norwich. It is, however, usually a northern species, and this may be a mistake.
- HYPERMECTIA CRUCIANA. Linn. (AUGUSTANA, D.L.) Merton, Cawston, Ranworth ; common among willow in the fens.
- BATODES AUGUSTIORANA. Haw. Norwich, Merton ; common.
- PÆDISCA BILUNANA. Haw. Norwich, Merton, Cawston, Costessey ; among birch.
- „ OPPRESSANA. Tr. Norwich, Ranworth ; on poplar trunks ; rare.
- „ CORTICANA. W.V. Common everywhere among oaks.
- „ PROFUNDANA. W.V. Merton, Ketteringham, Rackheath, St. Faith's ; among oaks. Recorded in Norfolk by Haworth, and apparently, under the name of *sylvana*, by Wood.
- „ OCCULTANA. Dougl. Norwich ; among young firs.
- „ SOLANDRIANA. Linn. Norwich, Merton, Ketteringham, Cawston ; probably everywhere.
- „ SEMIFUSCANA. Haw. Ranworth, Horning ; common among willows.
- „ SORDIDANA. Hüb. Norwich, St. Faith's, Cawston, Ranworth ; common among alder.
- HALONOTA BIMACULANA. Don. Merton, Cawston ; not common.

- HALONOTA CIRSIANA. Zell. Norwich, Merton, Cawston, Wootton, Ranworth. In the fens a singular variety, or possibly a distinct species, is found with straighter and narrower fore wings than usual.
- „ PFLUGIANA. Haw. (SCUTULANA, D.L.) Norwich, Merton, Cawston; not common.
- „ FGENEANA. Linn. Norwich, Merton, Horning; among mugwort (*Artemisia vulgaris*.) Recorded also by Haworth.
- „ NIGRICOSTANA. Haw. Merton, Ringland; scarce.
- „ TRIGEMINANA. Steph. Norwich, Merton, Cawston, St. Faith's; abundant among ragwort.
- „ TETRAGONANA. Steph. Ketteringham; scarce.
- „ COSTIPUNCTANA. Haw. Recorded in Norfolk by Haworth and Stephens, but no such specimens seem to be now in existence; indeed, I know of but one British example which agrees with Haworth's description, and considerable mystery hangs over the species.
- „ EPHIPPANA. Hüb. (POPULANA, Fab.) Ranworth; among sallow.
- OLINDIA ULMANA. Hüb. Brooke, Merton; not common. Recorded by Stephens under the name of *hastiana*.
- SEMASIA SPINIANA. Fisch. Norwich, Merton, St. Faith's, Ranworth; sometimes common flying over hawthorn hedges.
- „ JANTHINANA. Dup. Norwich, Horning; local.
- „ RUFILLANA. Zell. Norwich, Merton; among wild carrot.
- „ WÖBERANA. W.V. Norwich, Yarmouth, Horning, Cawston; probably everywhere among fruit trees.
- COCCYX STROBILELLA. Linn. Merton; among spruce fir.
- „ ARGYRANA. Hüb. Norwich, Merton, Cawston, Rackheath; among oaks.
- „ HYRCINIANA. Usler. (TEDELLA, Linn.) Norwich, Merton, Horstead; doubtless abundant everywhere among spruce fir.
- „ DISTINCTANA. Bent. Taken by Lord Walsingham, at Merton. An extremely scarce species, and only found in one or two other localities.

- COCCYX NANANA. Tr. Norwich, Merton ; among spruce fir.
- HEUSIMENE FIMBRIANA. Steph. Wootton, Cawston ; scarce.
- RETINIA BUOLIANA. W.V. Norwich, Merton, Brandon, Cawston, St. Faith's ; probably everywhere among Scotch fir (*Pinus sylvestris*.)
- „ PINICOLANA. Dbl. Merton, Cawston. Curtis, in his "British Entomology," says, "Bred by Mr. Wigham, of Norwich, from shoots of Scotch fir." I think, however, that he has mistaken *buoliana* for this species.
- „ TURIONANA. Linn. Norwich, Merton ; scarce.
- „ PINIVORANA. Zell. Norwich, Merton, St. Faith's ; not uncommon among Scotch fir.
- CARPOCAPSA SPLENDANA. Hüb. Norwich, Brooke, Merton, Rackheath, Ranworth ; among oak.
- „ POMONELLA. Linn. Everywhere among apple trees, its larva feeding in the apples.
- OPADIA FUNEBRANA. Tr. Norwich ; probably everywhere among plums, in which the larva feeds, although the moth is very rarely seen.
- ENDOPISA NIGRICANA. Fab. (NEBRITANA, D.L.) Norwich, Merton ; doubtless everywhere, its larva feeding in green peas.
- [STIGMONOTA DORSANA. Fab.] Recorded in Norfolk by Stephens, but probably in error, as it is a northern species.
- „ CONIFERANA. Ratze. Near Norwich ; not common.
- „ PERLEPIDANA. Haw. Merton, Cawston ; not common.
- „ INTERNANA. Gn. Norwich, Merton ; among furze, (*Ulex europæus*,) very local.
- „ COMPOSANA. Fab. Norwich, Merton, Ranworth ; among clover and trefoils.
- „ REGIANA. Zell. Norwich, Merton, Holt, Cawston ; among sycamore. Recorded by Stephens and Wood.
- „ ROSETICOLANA. Zell. (GERMARANA, D.L.) Norwich, Ringland, St. Faith's ; among wild rose.
- DICHRORAMPHIA POLITANA. W.V. Norwich, Seething, Merton, Cringleford, St. Faith's ; locally abundant.
- „ SEQUANA. Hüb. Norwich, Merton ; very local.

- DICRORAMPHA PETIVERELLA. Linn. Abundant everywhere.
- „ PLUMBANA. Scop. Norwich, Ringland; probably abundant everywhere.
- „ PLUMBAGANA. Tr. Merton, Brandon; local, but common.
- „ SIMPLICIANA. Haw. Norwich, Merton, St. Faith's; common among *Artemisia vulgaris*.
- „ CONSORTANA. Steph. Merton; scarce.
- PYRODES RHEDIELLA. Linn. Norwich, Merton; among Hawthorn.
- CATOPTRIA ALBERSANA. Hüb. Merton; not common.
- „ ULICETANA. Haw. Abundant everywhere among furze.
- „ JULIANA. Curt. Norwich, Merton, Cawston, Horning; among oaks, not common.
- „ MICROGRAMMANA. Gn. Yarmouth Denes; rare.
- „ HYPERICANA. Hüb. Norwich, Merton, St. Faith's, Ranworth; probably everywhere among *Hypericum*.
- „ CANA. Haw. (SCOPOLIANA, D.L.) Norwich, Merton, Brandon; common among thistles.
- „ SCOPOLIANA. Haw. (HOHENWARTHIANA, D.L.) Norwich, Merton; among *Centaurea nigra*.
- „ FULVANA. Steph. Norwich; among *Centaurea scabiosa*. Doubtless also at Brandon, where it abounds on the Suffolk side. Probably in other localities, but overlooked.
- „ EXPALLIDANA. Haw. Norwich, Yarmouth; rare.
- „ CITRANA. Hüb. Norwich, Merton, Brandon; very local. Usually a coast species.
- TRYCHERIS MEDIANA. W.V. (AURANA, Fab.) Taken at Horning by Mr. Eedle.
- CHOREUTES SCINTILLULANA. Hüb. Norwich, Merton; scarce.
- XYLOPODA FABRICIANA. Linn. Abundant everywhere.
- „ PARIANA. Linn. Cawston (?) One specimen indoors at Norwich, but I suspect that it emerged from among leaves brought from Surrey.
- LOBESIA RELIQUANA. Hüb. (PERMIXTANA, Hüb. Steph.) Merton, St. Faith's; not common.
- EUPÆCILIA NANA. Haw. Merton, Costessey, Horsford; not very common.

- EUPGECILIA ALBICAPITANA. Cooke. (PALLIDANA, Zell.) Yarmouth  
Denes ; scarce.
- „ ATRICAPITANA. Steph. Norwich, Merton, Brandon, St.  
Faith's ; among ragwort.
- „ MACULOSANA. Haw. Norwich ; scarce.
- „ ANGUSTANA. Hüb. (CRUENTANA, Fröl.) Common every-  
where, especially on heaths.
- „ UDANA. Gn. Merton, Horning, Ranworth ; scarce in  
the fens.
- „ GEYERIANA. H.S. Brundall, Ranworth ; rather common  
in the fens, among *Pedicularis palustris*.
- „ NOTULANA. Zell. Merton, Ranworth, Horning ; in the  
fens, scarce.
- „ RUPICOLA. Curt. Merton ; scarce.
- „ DEGREYANA. Mc. L. Norwich, Merton, Brandon. This  
lovely species was discovered in Norfolk by  
Lord Walsingham, and named after him by  
Mr. Me. Lachlan, in 1868. A notice of it  
may be found in the "Entomologist's Annual,"  
for 1869, p. 91. It has since been taken rather  
freely at Norwich.
- „ CILIELLA. Hüb. (RUFICILIANA, D.L.) Merton, St.  
Faith's. All the specimens which are found  
at St. Faith's bogs, are much more irrorated  
with dark scales than is the usual form of the  
insect, and are also generally of very small size.  
It is possible that they may belong to a dis-  
tinct species, not yet characterized.
- „ ANTHEMIDANA. Curt. Norwich, Merton, Brandon ;  
among *Erigeron acre*.
- XANTHOSSETIA ZÆGANA. Linn. Of general occurrence.
- „ HAMANA. Linn. Common everywhere.
- CHROSIS TESSERANA. W.V. Yarmouth, Merton, Brandon, Ring-  
land ; common, but very local.
- ARGYROLEPIA BAUMANNIANA. W.V. Said to have been taken at  
Ketteringham.
- „ SUB-BAUMANNIANA. Wilk. Norwich, Merton ; very  
local, but sometimes common in chalk  
pits.

- ARGYROLEPIA BADIANA. Hüb. Merton, and probably Brandon, as it occurs there on the Suffolk side; not common.
- „ CNICANA. Dbl. Cawston, Ranworth; scarce.
- COCHYLIS SMEATHIMANNIANA. Fab. Merton, Cawston; scarce.
- „ STRAMINEA. Haw. Norwich, Merton, Cawston, St. Faith's, Ranworth; common in chalky places.
- APHELIA PRATANA. Hüb. (OSSEANA, Scop.) Horning; local. Recorded in Norfolk by Haworth, and at Thetford Warren, by Curtis.
- TORTRICODES HYEMANA. Hüb. Merton; in oak woods.

## TINEINA.

- LEMNATOPHILA PHRYGANELLA. Hüb. Norwich, Merton, Horstead; common.
- DIURNEA FAGELLA. W.V. Norwich, Merton, Sparham; doubtless common everywhere.
- EPIGRAPHIA STEINKELLNERIANA. W.V. Norwich; not common.
- TALEPORIA PSEUDO-BOMBYCELLA. Ochs. Merton, Rackheath, near Norwich; probably in all oak woods.
- PSYCHE BETULINA. Zell. (?) Ranworth, Horning.
- „ ROBORICOLELLA. Br. Merton; probably everywhere. The species of this group are so exceedingly obscure and difficult of identification, that I am uncertain whether we have any more in the county, and even whether these are correctly named.
- SOLENOBIA TRIQUETRELLA. Hüb. Brandon; the larvæ (in triangular cases) are abundant on old palings, but all the specimens reared have been apterous females.
- XYSMATODOMA MELANELLA. Haw. Merton; local.
- OCHSENHEIMERIA BIRDELLA. Curt. Merton.
- „ BISONTELLA. Lienig. Merton; scarce.
- SCARDIA CARPINETELLA. Gn. (PARASITELLA, Hüb.?) Merton, Brandon, Horning; among firs.
- „ GRANELLA. Linn. Norwich, Merton, Wootton; abundant in granaries, its larva feeding in the grain and sometimes doing much mischief.

- SCARDIA CLOACELLA. Haw. Norwich, Merton, Wootton; probably common everywhere.
- „ RURICOLELLA. Stn. Norwich, St. Faith's, Wootton, Ranworth; not scarce.
- „ ARCELLA. Fab. Norwich, Merton, St. Faith's Ranworth; rather common.
- TINEA IMELLA. Hüb. Brandon; a very scarce and local species, found where the fields are manured with furrier's refuse.
- „ FERRUGINELLA. Hüb. Norwich, Brandon; not common.
- „ RUSTICELLA. Hüb. Norwich, Merton; common.
- „ TAPETZELLA. Linn. Norwich, Merton, Yarmouth; doubtless everywhere. A complete pest in warehouses and dwellings, its larva devouring the hair stuffing of saddles, chairs, and sofas, and carpets, furs, and articles of wool and hair generally.
- „ MISELLA. Zell. Norwich; very local.
- „ PELLIONELLA. Linn. Everywhere in houses; its larva feeding in woollen cloth and furs.
- „ FUSCIPUNCTELLA. Haw. Norwich, Lynn; common.
- „ PALLESCENTEELLA. Stn. Norwich; in warehouses.
- „ GANOMELLA. Tr. Norwich, Merton, Wootton, Ranworth; common in woods.
- „ BISELLIELLA. Humm. Norwich, Merton; abundant. A most destructive species, its larva feeding on hair, fur, and feathers, and having a decided taste for preserved birds and animals in museums.
- „ SEMIFULVELLA. Haw. Norwich, Merton; not common.
- LAMPRONIA QUADRI-PUNCTA. Fab. Norwich; scarce.
- „ LUZELLA. Hüb. Merton; not common.
- „ PRELATELLA. W.V. Merton, Brooke, Ranworth; among wild strawberry.
- „ RUBIELLA. Bjerk. Merton, Ranwerth; not common.
- INCURVARIA MASCULELLA. W.V. Norwich, Merton; probably everywhere about hawthorn.
- MICROPTERYX CALTHELLA. Linn. Merton.
- „ ARUNCELLA. Scop. Brooke woods; rather common.

- MICROPTERYX SEPELLA. Fab. Norwich, Merton ; on flowers of  
*Veronica chamaedrys*.
- „ MANSUETELLA. Zell. Merton, Ranworth ; scarce.
- „ THUNBERGELLA. Fab. Merton.
- „ PURPURELLA. Steph. Merton ; among birch.
- „ SEMIPURPURELLA. Steph. Merton ; among birch.
- „ UNIMACULELLA. Zell. Merton ; among birch.
- „ SPARMANELLA. Bosc. Merton ; among birch.
- „ SUBPURPURELLA. Haw. Norwich, Merton, St. Faith's ;  
abundant among oaks.
- NEMOPHORA SWAMMERDAMELLA. Linn. Norwich, Merton.
- „ SCHWARZIELLA. Zell. Norwich, Merton, Castleacre ;  
abundant.
- „ METAXELLA. Hüb. Norwich, Merton, Ranworth ; com-  
mon among alder in the fens.
- ADELA FIBULELLA. W.V. Norwich, Merton ; on flowers of  
*Veronica chamaedrys*.
- „ DE-GEERELLA. Linn. Merton, Brooke ; common in woods.
- „ VIRIDELLA. Linn. Norwich, Merton, Wootton, Barton,  
St. Faith's ; common about oaks.
- NEMOTOIS SCABIOSELLA. Scop. Norwich ; among *Scabiosa colum-  
baria*, very local.
- „ MINIMELLA. Zell. Merton, Ranworth ; not common.
- SWAMMERDAMIA COMPTELLA. Hüb. Norwich, Merton, Wootton ;  
common among blackthorn.
- „ CÆSIELLA. Hüb. Norwich, Merton ; among blackthorn.
- „ GRISEOCAPITELLA. Stn. Norwich ; among birch.
- „ PYRELLA. Vill. Norwich, Merton, Wootton ; abundant  
among hawthorn.
- YPONOMEUTA PLUMBELLA. W.V. Norwich, Surlingham, Merton ;  
among *Euonymus europæus*.
- „ PADELLA. Linn. Norwich, Yarmouth, Merton ; prob-  
ably abundant everywhere among hawthorn.
- „ COGNATELLA. Hüb. Norwich, Surlingham, Merton,  
Hunstanton ; abundant among *Euonymus*.
- „ EVONYMELLA. Linn. Sprowston, Merton ; among *Prunus  
padus*.
- ANESYCHIA FUNERELLA. Fab. Taken by Lord Walsingham at  
Brandon ; a very local species.

- PRAYS CURTISELLA. Don. Norwich, Merton ; among ash.
- PLUTELLA XYLOSTELLA. Linn. Norwich, Merton ; probably abundant everywhere among cruciferous plants.
- „ PORRECTELLA. Linn. Merton ; local.
- CEROSTOMA SEQUELLA. Linn. Merton.
- „ VITTELLA. Linn. Norwich, Merton ; among elm.
- „ RADIATELLA. Don. Common everywhere, recorded by Paget under the name of *variellus*.
- „ COSTELLA. Fab. Merton.
- YPSOLOPHUS SYLVELLUS. Linn. Norwich, Merton, St. Faith's ; among oak, not common.
- „ ALPELLUS. W.V. Merton ; among oak.
- HARPIPTERYX SCABRELLA. Linn. Norwich, St. Faith's ; among crab-apple.
- „ NEMORELLA. Linn. Merton ; among honeysuckle.
- „ HARPELLA. W.V. Generally common among honeysuckle.
- PTEROXIA CAUDELLA. Linn. Norwich ; among *Euonymus europæus* ; scarce.
- ORTHOTELIA SPARGANIELLA. Thunb. Norwich, Merton, Hunstanton, Ranworth, Horning ; very common in the fens among *Sparganium*.
- ENICOSTOMA LOBELLA. W.V. Norwich ; among sloe.
- PHIBALOCERA QUERCANA. Fab. Norwich, Merton, Hunstanton ; among oak.
- EXERÆTIA ALLISELLA. Stn. Mr. Stainton tells me that he believes that this very local species was taken on the coast of Norfolk by the late Mr. Wm. Wing. It feeds on *Artemisia vulgaris*.
- DEPRESSARIA COSTOSA. Haw. Norwich, Merton, Brandon ; common among furze.
- „ LITURELLA. W.V. Norwich, Yarmouth, Merton ; among *Centaurea*.
- „ UMBELLANA. Steph. Norwich, Merton, Wootton ; among furze.
- „ ASSIMILELLA. Tr. Merton, Brandon ; among broom.
- „ ATOMELLA. W.V. Norwich, Yarmouth, Merton, Brandon ; among broom.
- „ ARENELLA. W.V. Norwich, Merton ; common.
- „ PROPINQUELLA. Tr. Norwich, Merton, Ranworth.

- DEPRESSARIA SUBPROPINQUELLA. Stn. Norwich, Merton.
- „ RHODOCHRELLA. H.S. Norwich, Merton ; scarce.
- „ ALSTREMERIANA. Linn. Norwich, Merton, Ranworth ;  
abundant among *Conium maculatum*.
- „ VACCINELLA. Hüb. Norwich, Merton, Ranworth.
- „ HYPERICELLA. Hüb. Merton ; among *Hypericum*.
- „ CONTERMINELLA. Zell. Norwich, Surlingham, Merton,  
Ranworth ; common among shallows in the fens.
- „ ANGELICELLA. Hüb. Merton, Surlingham, Ranworth ;  
common among *Angelica sylvestris* in the fens.
- „ OCELLANA. Fab. Merton, Ranworth ; among sallow.
- „ YEATIANA. Fab. Merton, Brandon, Ranworth ; common  
in the fens.
- „ APPLANA. Fab. Abundant everywhere.
- „ CILIELLA. Stn. Merton, Ranworth ; not common.
- „ GRANULOSELLA. Stn. Norwich, Merton, Brandon ; among  
*Anthriscus vulgaris* ; very local.
- „ ALBIPUNCTELLA. Hüb. Norwich, Merton ; not common.
- „ PULCHERRIMELLA. Stn. Norwich ; among *Bunium*  
*flexuosum* ; scarce.
- „ WEIRELLA. Stn. Norwich, Merton, Brandon.
- „ CHÆROPHYLLI. Zell. Norwich, Merton ; common.
- „ ULTIMELLA. Stn. Norwich, Ranworth ; common in  
the fens.
- „ BADIELLA. Hüb. Norwich, Yarmouth, Cromer ;  
recorded by Haworth in Norfolk.
- „ HERACLIANA. De Geer. Norwich, Yarmouth, Merton,  
Thetford.
- PSORICOPTERA GIBBOSELLA. Zell. Merton ; scarce.
- GELECHIA CINEREA. Linn. Norwich, Merton ; not common.
- „ RUFESCENS. Haw. Norwich, Surlingham, Merton, Ran-  
worth ; common in the fens.
- „ GERRONELLA. Zell. Norwich, Surlingham, Merton,  
Ranworth ; common in the fens.
- „ VELOCELLA. Fisch. Near Norwich, Yarmouth ; common.
- „ ERICETELLA. Hüb. Norwich, Merton, St. Faith's ;  
common on heaths.
- „ MULINELLA. Fisch. Norwich, Merton ; common among  
furze.

- GELECHIA PALUSTRELLA. Dougl. Ranworth, Horning; rare.
- „ SORORCULELLA. Hüb. Merton, Ranworth; among willow.
- „ MUSCOSELLA. Zell. Ranworth; rare.
- „ ALACELLA. Dup. Merton; very rare.
- „ DIFFINIS. Haw. Yarmouth, Merton, Brandon; common.
- „ TERRELLA. W.V. Abundant everywhere.
- „ DESERTELLA. Stn. Yarmouth, Brandon; abundant on coast sandhills, and also on the sands of the "Breck" district.
- „ ACUMINATELLA. Stn. Norwich, Merton; not common.
- „ ARTEMESIELLA. Tr. Merton.
- „ ARUNDINETELLA. Zell. Merton; rare.
- „ SENECTELLA. Zell. Norwich; common in lanes.
- „ MUNDELLA. Dougl. Yarmouth; on the sands.
- „ UMBROSELLA. Zell. Yarmouth; on the sands.
- „ AFFINIS. Haw. Norwich, Brandon; common.
- „ DOMESTICA. Haw. Norwich, Wootton; common.
- „ RHOMBELLA. Hüb. Norwich, among crab; scarce.
- „ PROXIMELLA. Hüb. Norwich, Merton, Ranworth; common among birch and alder.
- „ NOTATELLA. Hüb. Norwich, Merton, Ranworth.
- „ VULGELLA. Hüb. Norwich, Merton; common among hawthorn.
- „ LUCULELLA. Hüb. Merton; among oak.
- „ FUGITIVELLA. Zell. Norwich, Merton; not scarce.
- „ DISTINCTELLA. Zell. Norwich, Yarmouth, Brandon; rather common on the coast and "Breck" sands.
- „ MACULEA. Haw. Norwich; not common.
- „ TRICOLORELLA. Haw. Norwich; among *Stellaria holostea*.
- „ FRATERNELLA. Dougl. Merton, Brandon; its larva feeding in shoots of *Cerastium arvense*.
- „ MACULIFERELLA. Mann. Norwich; very local, but common among *Cerastium semidecandrum*.
- „ MARMOREA. Haw. Yarmouth, Merton, Brandon; very abundant on the coast, and also on the "Breck" sands.
- „ LEUCATELLA. Linn. Norwich; rare.
- „ MOUFFETELLA. W.V. Merton; among honeysuckle.

- GELECHIA DODECELLA. Linn. Near Norwich, Merton, Brandon ;  
common among fir trees.
- „ TENEBRELLA. Hüb. Norwich, Brandon, St. Faith's.
- „ TENEBROSELLA. Zell. Norwich ; scarce.
- „ LIGULELLA. Zell. Norwich, Merton, Brandon, Ran-  
worth ; among *Lotus major* in the fens.
- „ TÆNIOLELLA. Tr. Cringleford.
- „ ANTHYLLIDELLA. Hüb. Norwich, Merton ; common.
- „ ATRELLA. Haw. Surlingham, Ranworth ; among *Hyper-  
icum* in the fens.
- „ SUFFUSELLA. Dougl. Ranworth ; rare.
- „ CEREALELLA. Oliv. Norwich ; rare.
- „ LATHYRI. Stn. Merton ; among *Lathyrus palustris*.
- „ GEMMELLA. Linn. Near Norwich, St. Faith's ; not  
common.
- „ NÆVIFERELLA. Zell. Norwich, Merton ; common among  
*Chenopodium*.
- „ HERMANNELLA. Fab. Wootton ; very local.
- „ PICTELLA. Zell. Yarmouth, Brandon ; common on the  
coast and on the "Breck" sands.
- „ SUBDECURTELLA. Stn. Ranworth ; among *Lythrum  
salicaria* ; rare.
- „ ERICINELLA. Zell. Near Norwich, Merton, St. Faith's ;  
common on heaths.
- „ OSSEELLA. Stn. Norwich ; rare.
- PARASIA METZNERIELLA. Dougl. Merton.
- CLEODORA CYTISELLA. Curt. Merton, Easton ; scarce.
- CHELARIA CONSCRIPTELLA. Hüb. Merton.
- ANARSIA SPARTIELLA. Schr. Norwich, Yarmouth, Merton, Ring-  
land ; among furze.
- NOTHRIS VERBASCELLA. W.V. Norwich ; common among *Ver-  
basicum pulverulentum* ; not known to occur in  
any other part of the united kingdom.
- SOPHRONIA PARENTHESSELLA. Linn. Near Norwich, Merton,  
Cringleford ; very local.
- HARPELLA GEOFFRELLA. Linn. Norwich ; abundant.
- DASYCERA SULPHURELLA. Fab. Abundant everywhere.
- ŒCOPHORA MINUTELLA. Linn. Norwich ; common. Recorded  
in Norfolk by Haworth.

- CECOPHORA FLAVIMACULELLA. Stn. Merton, Ranworth; among  
*Angelica sylvestris*.
- „ TRISIGNELLA. Zell. Norwich; not common.
- „ LUNARIS. Haw. Norwich, Cringleford; scarce.
- „ TINCTELLA. Tr. Norwich, Merton; not common.
- „ FUSCO-AURELLA. Haw. Merton.
- „ FLAVIFRONTELLA. Hüb. Norwich; very local.
- „ FUSCESCENS. Haw. Norwich, Merton, St. Faith's;  
 common.
- „ PSEUDO-SPRETELLA. Stn. Abundant everywhere in  
 houses, its larva feeding on all sorts of dried  
 animal and vegetable substances.
- ENDROSIS FENESTRELLA. Scop. Abundant everywhere in houses.  
 Recorded by Paget as *sarcitella*.
- BUTALIS GRANDIPENNIS. Haw. Norwich, Horning; common  
 among furze.
- „ INCONGRUELLA. Stn. Horsford; on heaths.
- PANCALIA LEUWENHÖCKELLA. Linn. Merton; scarce.
- ACROLEPIA AUTUMNITELLA. Curt. Merton, Ranworth; among  
*Solanum dulcamara*.
- GLYPHIPTERYX FUSCOVIRIDELLA. Haw. Norwich, Merton, Woot-  
 ton, St. Faith's; abundant.
- „ THIRASONELLA. Scop. Norwich, Merton, Brandon;  
 abundant among rushes.
- „ CLADIELLA. Stn. Norwich, Merton, Brandon, Ranworth,  
 Barton Turf; common among rushes. Prob-  
 ably a variety of the preceding, but found only  
 in the fens.
- „ EQUITELLA. Scop. Norwich; common among *Sedum*  
*acre*.
- „ SCHENICOLELLA. Boyd. Merton, Ranworth, Barton  
 Turf; common in the fens, but not known to  
 occur elsewhere, except at the Land's End,  
 Cornwall.
- „ FISCHERIELLA. Zell. Norwich, Merton; common.
- ACHIMIA DENTELLA. Stn. Norwich, Easton; local, but not  
 scarce.
- PERITIA OBSCURIPUNCTELLA. Stn. Merton.
- TINAGMA SERICEELLA. Haw. Merton.

- TINAGMA RESPLENDELLA. Dougl. Merton, Ranworth ; scarce.
- DOUGLASIA OCNEROSTOMELLA. Stn. Merton, Brandon ; among  
*Echium vulgare*, very local.
- ARGYRESTHIA EPHIPPELLA. Fab. Merton ; local.
- „ NITIDELLA. Fab. Abundant among hawthorn every-  
where.
- „ SEMITESTACELLA. Curt. Norwich, Ketteringham ;  
among beech.
- „ ALBISTRIA. Haw. Norwich ; among blackthorn.
- „ CONJUGELLA. Zell. Costessey, St. Faith's ; among  
mountain ash.
- „ SEMIFUSCA. Haw. Norwich, St. Faith's ; common  
among hawthorn.
- „ MENDICA. Haw. Norwich, Merton ; common among  
blackthorn.
- „ GLAUCINELLA. Zell. Merton, Ringland ; among oak.
- „ RETINELLA. Zell. Merton, Brooke, Costessey ; among  
birch.
- „ DILECTELLA. Zell. Merton ; among juniper.
- „ CURVELLA. Linn. Norwich ; among apple.
- „ PYGMÆLLA. Hüb. Ranworth, Horning ; abundant  
among willow.
- „ GÆDARTELLA. Linn. Norwich, Brooke, Merton ; among  
alder and birch.
- „ BROCKEELLA. Hüb. Merton, Yarmouth, Costessey ;  
among alder. Apparently recorded by Paget  
under the name of *I. w-ella*.
- „ ARCEUTHINA. Zell. Norwich, Merton ; among fir.
- „ PRÆCOCELLA. Zell. (?) Norwich, once. I am not how-  
ever satisfied about this species. If correct, it  
probably had been introduced in juniper into  
a garden.
- CEDESTIS FARINATELLA. Zell. Norwich, Merton ; among fir.
- OCNEROSTOMA PINARIELLA. Zell. Merton, Brandon, St. Faith's ;  
among fir trees.
- ZELLERIA INSIGNIPENNELLA. Stn. Merton ; local.
- GRACILARIA SWEDERELLA. Thunb. Norwich, Merton ; among oak.
- „ STIGMATELLA. Fab. Norwich, Merton, Ranworth ;  
among poplar and willow.

- GRACILARIA HEMIDACTYLELLA. Hüb. Merton.  
 „ ELONGELLA. Linn. Merton, Ranworth ; among alder.  
 „ TRINGIPENNELLA. Zell. Norwich, Merton ; among  
*Plantago lanceolata*.  
 „ SYRINGELLA. Fab. Common everywhere among lilac.  
 „ OMISSELLA. Dougl. Norwich ; among *Artemisia vulgaris*.  
 „ AUROGUTTELLA. Steph. Merton, Ranworth ; among  
*Hypericum quadrangulum*.  
 CORISCIMUM BRONGNIARDELLUM. Fab. Norwich, Merton.  
 „ CUCULIPENNELLUM. Hüb. Merton ; among privet.  
 „ CITRINELLUM. Fisch. Merton, Sandringham.  
 ORNIX AVELLANELLA. Stn. Norwich, Merton ; among hazel.  
 „ ANGLICELLA. Stn. Abundant everywhere among haw-  
 thorn.  
 „ BETULE. Stn. Norwich ; among birch.  
 „ TORQUILLELLA. Stn. Norwich, Merton ; among sloe.  
 „ GUTTEA. Haw. Norwich ; common among apple.  
 COLEOPHORA ALCYONIPENNELLA. Koll. Norwich, Merton ; among  
*Centaurea nigra*.  
 „ LIXELLA. Zell. Merton ; scarce.  
 „ ALBICOSTA. Haw. Norwich ; among furze.  
 „ ANATIPENNELLA. Hüb. Merton, St. Faith's.  
 „ PALLIATELLA. Zell. Ranworth.  
 „ IBIPENNELLA. Heyd. Merton, Ranworth.  
 „ CURRUCIPENNELLA. Fisch. Ranworth ; among willow.  
 „ NIVEICOSTELLA. Fisch. Merton.  
 „ DISCORDELLA. Zell. Norwich, Merton, Brandon, Ran-  
 worth ; among *Lotus major*.  
 „ GENISTE. Stn. Merton, St. Faith's ; among *Genista*  
*anglica*.  
 „ SATURATELLA. Stn. Merton ; among broom.  
 „ ONOSMELLA. Zell. Norwich, Merton, Brandon ; among  
*Echium vulgare*.  
 „ INFLATE. Stn. Merton ; among *Silene inflata*.  
 „ THERINELLA. Stn. Norwich ; among thistles.  
 „ TROGLODYTELLA. Stn. Norwich, Merton, Ranworth ;  
 common among *Eupatorium cannabinum*.  
 „ GRAMINICOLELLA. Heine. Ranworth ; among *Lychnis*  
*flos-cuculi*.

- COLEOPHORA LINEOLEA. Stn. Norwich, Merton; larva common on *Ballota nigra*.
- „ MURINIPENNELLA. Fisch. Norwich, Merton; among *Luzula sylvatica*.
- „ CÆSPITITIELLA. Zell. Generally common among rushes.
- „ ANNULATELLA. Teng. (TENGSTROMELLA, D.L.) Norwich, Merton, Brandon, St. Faith's; common among *Chenopodium*.
- „ SALINELLA. Stn. A larva on *Salsola kali*, brought by Mr. Bircham from Hunstanton, appears to belong to this species.
- „ APICELLA. Stn. (CACUMINATELLA, D.L.) Norwich, Merton, Ranworth; in marshes; not common.
- „ ARGENTULA. Zell. Norwich, Merton; common among *Achillea millefolium*.
- „ ARTEMESIELLA. Scott. Norwich; not common.
- „ JUNCICOLELLA. Stn. St. Faith's; among heath.
- „ LARICELLA. Hüb. Norwich, Merton; common among larch.
- „ ALBITARSELLA. Zell. Norwich; among *Glechoma hederacea*.
- „ NIGRICELLA. Steph. Norwich; abundant among hawthorn.
- „ FUSCEDINELLA. Zell. Norwich, Merton, Ranworth; common.
- „ GRYPHIPENNELLA. Bouché. Merton; among rose.
- „ VIMINETELLA. Zell. Merton, Ranworth; among willow.
- „ SOLITARIELLA. Zell. Norwich; among *Stellaria holostea*.
- „ LUTIPENNELLA. Zell. Norwich, Merton, St. Faith's; common among oak.
- „ BADIIPENNELLA. Fisch. Norwich, Merton, St. Faith's; among hawthorn.
- „ LIMOSIPENNELLA. Fisch. Norwich; not common.
- „ CHALCOGRAMMELLA. Zell. Merton, Brandon; among *Cerastium arvense*; scarce.
- COSMOPTERYX ORICHALCEA. Stn. Merton, Ranworth, Barton Turf; in the fens; scarce.
- „ LIENIGIELLA. Zell. Ranworth; among reed; scarce.

- BATRACHEDRA PRÆANGUSTA. Haw. Norwich, Merton, Ranworth ;  
among poplar and willow.
- „ PINICOLELLA. Zell. Near Norwich, Brandon, St. Faith's ;  
among Scotch fir ; not rare.
- OINOPHILA V-FLAVA. Haw. Norwich, Merton ; in beer cellars,  
larva feeding on fungi.
- CHAULIODUS ILLIGERELLUS. Hüb. Brundall, Merton, Ranworth ;  
common in the fens.
- „ CHEROPHYLLELLUS. Goed. Norwich, Merton ; not common.
- LAVERNA PROPINQUELLA. Stn. Norwich, Surlingham ; in fens.
- „ EPILOBIELLA. Schr. Norwich, Merton, Wroxham, Ran-  
worth ; common among *Epilobium hirsutum*.
- „ OCHRACELLA. Curt. Merton ; among *Epilobium*.
- „ PHRAGMITELLA. Bent. Brundall, Merton, Horning,  
Ranworth ; probably everywhere among *Typha*  
*latifolia*, in the heads of which the larva feeds.
- „ DECORELLA. Steph. Merton.
- „ SUBBISTRIGELLA. Haw. Merton.
- „ ATRA. Haw. (HELLERELLA, Dup. D.L.) Norwich, Mer-  
ton ; common among hawthorn.
- „ RHAMNIELLA. Zell. Ranworth ; among *Rhamnus*.
- CHRYSOCLISTA FLAVICAPUT. Haw. Norwich, Brandon, Merton ;  
common among hawthorn.
- ASYCHNA MODESTELLA. Dup. Norwich ; among *Stellaria holostea*.
- CHRYSOCORYS FESTALIELLA. Hüb. Merton, Ketteringham ; among  
bramble ; not common.
- ANTISPILA PFEIFFERELLA. Fab. Merton ; among *Cornus sau-*  
*guinea*.
- STEPHENSIA BRUNNICHELLA. Linn. Norwich ; in chalk pits,  
among *Clinopodium vulgare*.
- ELACHISTA GLEICHENELLA. Fab. Merton, Ranworth.
- „ MAGNIFICELLA. Tengs. Merton.
- „ ALBIFRONTILLA. Hüb. Norwich, Brundall, Merton ;  
common.
- „ ATRICOMELLA. Stn. Norwich.
- „ LUTICOMELLA. Zell. Norwich ; common.
- „ P.O.E. Dougl. Merton ; among *Poa aquatica*.
- „ KILMUNELLA. Stn. Norwich, St. Faith's, Ranworth ;  
among coarse grass in marshes.

- ELACHISTA CINEREOPUNCTELLA. Merton.
- „ GREGSONI. Stn. Merton.
- „ NIGRELLA. Hüb. Norwich, Merton ; common.
- „ SUBNIGRELLA. Dougl. Merton.
- „ OBSCURELLA. Stn. Norwich.
- „ CERUSSELLA. Hüb. Norwich, Brundall, Merton, Brandon, Ranworth ; common among reeds.
- „ RHYNCHOSPORELLA. Stn. Merton.
- „ PALUDUM. Frey. Surlingham, Ranworth ; among *Carex* in the fens. Described by Mr. Stainton under the name of *caricis* in the "Entomologists' Annual," for 1859, from specimens obtained at Ranworth.
- „ BIATOMELLA. Stn. Yarmouth, Merton.
- „ TRIATOMEA. Haw. Norwich, Plumstead, Merton ; common in chalk pits.
- „ RUFOCINEREA. Haw. Norwich, Merton ; probably abundant everywhere among grass.
- „ CYGNIPENNELLA. Hüb. Norwich, Merton ; common.
- TISCHERIA COMPLANELLA. Hüb. Norwich, Merton, St. Faith's ; among oak.
- „ MARGINEA. Haw. (EMYELLA, Dup. D.L.) Norwich, Merton ; common among bramble.
- LITHOCOLLETIS HORTELLA. Fab. Merton ; very local.
- „ QUINQUEGUTTELLA. Stn. Merton, Ranworth ; among dwarf willow.
- „ IRRADIELLA. Seott. Merton ; among oak.
- „ LAUTELLA. Zell. Norwich, Merton, Horstead ; among oak.
- „ POMIFOLIELLA. Zell. Norwich, Merton ; doubtless everywhere among hawthorn and apple.
- „ CORYLI. Nicelli. Norwich, Merton, Horstead ; among hazel.
- „ SPINICOLELLA. Zell. Horstead ; among blackthorn.
- „ FAGINELLA. Mann. Norwich, Merton ; common among beech.
- „ SALICICOLELLA. Sireom. Merton, Ranworth ; among willow.
- „ CARPINICOLELLA. Stn. Merton, Horstead ; among hornbeam ; local.

- LITHOCOLLETIS ULMIFOLIELLA. Hüb. Merton; among birch.
- „ SPINOLELLA. Dup. Merton.
- „ QUERCIFOLIELLA. Fisch. Norwich, Merton; doubtless  
common everywhere among oak.
- „ MESSANIELLA. Zell. Merton, Lynn, Holkham; common  
among evergreen oak.
- „ CORYLIFOLIELLA. Haw. Norwich, Merton; common  
among hawthorn.
- „ VIMINIELLA. Sircom. Merton; among willow.
- „ SCOPARIELLA. Fisch. Merton, St. Faith's; among broom.
- „ ULCICOLELLA. Vaughan. Norwich; common among  
furze.
- „ ALNIFOLIELLA. Hüb. Norwich, Merton, St. Faith's,  
Ranworth; common among alder.
- „ HEEGERIELLA. Zell. Merton; among oak.
- „ CRAMERELLA. Fab. Norwich, Merton; probably com-  
mon everywhere among oak.
- „ SYLVELLA. Haw. (ACERIFOLIELLA, Zell, D.L.) Norwich,  
Merton; among maple.
- „ PRÖLICHELLA. Zell. Merton; among alder.
- „ NICELLI. Zell. Merton, Horstead; among hazel.
- „ STETTINENSIS. Nicelli. Merton, Ranworth; among alder.
- „ SCHREBERELLA. Fab. Norwich, Merton; among elm.
- „ TRISTRIGELLA. Haw. Merton; among elm.
- „ TRIFASCIELLA. Haw. Norwich, Merton, Ringland;  
among honeysuckle.
- LYONETIA CLERCKELLA. Linn. Norwich, Merton, St. Faith's.
- PHYLOCNISTIS SUFFUSELLA. Zell. Norwich; among poplar.
- „ SALIGNA. Zell. Merton; among willow.
- CEMIOSTOMA SPARTIFOLIELLA. Hüb. Norwich, Merton, Great  
Plumstead, St. Faith's; among broom.
- „ LABURNELLA. Heyd. Norwich, Merton; among labur-  
num.
- „ SCITELLA. Zell. Norwich, Merton; among hawthorn.
- „ LOTELLA. Stn. Merton; among *Lotus major*.
- OPOSTEGA SALACIELLA. Tr. Norwich, Merton, Brandon; scarce.
- „ RELIQUELLA. Zell. Merton; rare. Recorded in Ent.  
Ann, 1868. Possibly only a variety of  
*salaciella*.

- OPOSTEGA AURITELLA. Hüb. Ranworth fen ; rare.
- „ CREPUSCULELLA. Fisch. Surlingham, Merton, Ranworth ;  
common in the fens.
- BUCCULATRIX AURIMACULELLA. Stn. Norwich ; common among  
*Chrysanthemum leucanthemum*.
- „ CIDARELLA. Fisch. Merton, Ranworth ; among alder.
- „ ULMELLA. Mann. Norwich, Merton ; among oak.
- „ CRATEGIFOLIELLA. Dup. Norwich, St. Faith's ; com-  
mon about hawthorn hedges.
- „ MARITIMA. Stn. Yarmouth ; among *Aster tripolium*.
- „ BOYERELLA. Dup. Norwich ; among elm.
- „ FRANGULELLA. Gn. Ranworth ; common among *Rhamnus*.
- „ CRISTATELLA. Fisch. Norwich, Merton ; among yarrow.
- NEPTICULA ATRICAPITELLA. Haw. Norwich ; among oak.
- „ RUFICAPITELLA. Haw. Norwich ; among oak.
- „ PYGMÆELLA. Haw. Norwich ; among hawthorn.
- „ OXYACANTHELLA. Stn. Merton.
- „ SEPTEMBRELLA. Stn. Merton ; among *Hypericum*.
- „ SUBBIMACULELLA. Haw. Norwich, Merton ; among oak.
- „ FLOSLACTELLA. Haw. Merton, Horstead ; among hazel.
- „ SALICIS. Stn. Ranworth ; among willow.
- „ MICROTHERIELLA. Wing. Horstead ; among hazel.
- „ IGNOBILELLA. Stn. Norwich ; among hawthorn.
- „ MALELLA. Stn. Norwich ; among wild apple.
- „ ATRICOLLIS. Stn. Norwich.
- „ ALNETELLA. Stn. Merton ; among alder.
- „ AURELLA. Fab. Norwich, Merton ; among bramble.
- TRIFURCULA IMMUNDELLA. Zell. Norwich, Merton ; among broom.
- „ PULVEROSELLA. Stn. Norwich ; among wild apple.
- BOHEMANIA QUADRIMACULELLA. Bohem. Ranworth ; among  
alder ; local and scarce.

## PTEROPHORINA.

- PLATYPTILIA BERTRAMI. Röss. Norwich, Merton, Thetford,  
Cawston ; among yarrow.
- „ OCHRODACTYLA. Hüb. Horning ; among tansy.
- „ ISODACTYLUS. Zell. Norwich ; among *Senecio aquaticus*,  
in marshes.

- PLATYPTILIA TRIGONODACTYLUS. Haw. Cawston.
- AMBLYPTILIA ACANTHODACTYLA. Hüb. Norwich, Aldeby, Cawston, Cromer, St. Faith's; on heaths.
- OXYPTILUS TEUCRII. Greening. Near Norwich; among *Teucrium scorodonia*. This appears to me to be the species noticed by Haworth, Stevens, and Donovan, in Norfolk, under the name of *didactyla*, and also recorded at Yarmouth by Paget, under the same name.
- „ LÆTUS. Zell. Merton, Thetford, and probably at Brandon, where it occurs on the Suffolk side of the river. It appears, in this country, to be confined to the "Breck-sand" district, where it was discovered by Lord Walsingham, in July, 1868.
- MIMÆSEOPTILUS BIPUNCTIDACTYLUS. Haw. Norwich, Merton, Cawston, Ranworth; among *Scabiosa succisa*.
- „ PLAGIODACTYLUS. Fisch. Norwich, Merton; common among *Scabiosa columbaria*.
- „ LOEWII. Zell. (ZOPHODACTYLUS, Dup.) Near Norwich, Merton; among *Erythraea centaurium*.
- „ FUSCUS. Reiz. (PTERODACTYLUS, Linn.) Norwich, Merton, Cawston, St. Faith's; common among *Veronica chamaedrys*.
- CÆDEMATOPHORUS LITHODACTYLUS. Tr. Hunstanton; among *Iunla dysenterica*.
- PTEROPHORUS PTERODACTYLUS. Hüb. (MONODACTYLUS, Linn.) Norwich, Merton, Thetford, Cawston; common among *convolvulus*.
- LEIOPTILUS LIENIGIANUS. Zell. Norwich, Ringland, Horning; among *Artemisia vulgaris*.
- „ TEPHRADACTYLUS. Hüb. Recorded at Beachamwell by Stephens, but not since observed. Possibly a mistake.
- „ MICRODACTYLUS. Hüb. Merton, Ranworth; among *Eupatorium cannabinum*.
- „ BRACHYDACTYLUS. Tr. The only recorded occurrence of this species in Great Britain was in Norfolk, where it is said to have been taken by a Mr.

Farr thirty years ago. He removed to London about 1844, and is since deceased, and I have no idea what has become of his insects, nor of the locality in which this species was captured. No recent examples are known.

ACIPTILIA GALACTODACTYLA. Hüb. Norwich, Sparham; among burdock.

„ PENTADACTYLA. Linn. Generally abundant among *Convolvulus sepium* and *arvensis*.

#### ALUCITINA.

ALUCITA POLYDACTYLA. Hüb. Norwich, Merton, Lynn, Cromer, Sparham, Cawston; among honeysuckle.

A glance at the foregoing list will make it very evident that, while the larger and more conspicuous species have been pretty carefully worked up, and their localities recorded, the smaller have been much neglected—indeed, I have but two or three lists in which they are included. Consequently there is every reason to suppose that at some future time there may be considerable additions to be made, particularly in the groups of the Tortrices and Tineæ.

An analysis of the list shows that of the Butterflies we have in the county forty-eight species, nearly four-fifths of the entire British list; of the Nocturni (Sphinges and Bombyces of Linné) seventy-four species, or about five-eighths; and of the Geometræ, one hundred and ninety, or exactly two-thirds. The same proportion, or nearly, holds good in the other large group of Macro-Lepidoptera, the Noctuæ, of which we have two hundred and twenty species; while of the Drepanulæ our five species constitute five-sixths, and of the Pseudo-Bombyces our nineteen species equal five-sevenths. Of the Deltoides we have nine species, about three-fifths; of the Pyralides forty-four species, only five-eighths; and of the Crambites fifty-four species, little more than the same proportion; while of the Aventiæ we possess the single European representative. Of the Tortrices, however, we have but two hundred species, not two-thirds; and of the Tineina only three hundred and sixty species, very little more than one-half; while

our twenty species of Pterophorina constitute about four-sevenths of the British list. When the woods of the west and north of Norfolk, and its extensive coast line have been carefully worked, I suspect that these proportions will be somewhat altered.

Of species apparently confined solely to this county, as far as the British Islands are concerned, we have six, four of which—*Lithosia muscerda*, *Nonagria brevilinea*, *Crambus paludellus*, and *Sericoris doubledayana*, are confined to the fens, one, *Crambus fascelinellus*, inhabits the sandy dunes at Yarmouth; and one, *Nothris verbascella*, is attached to the very local *Mullein*, *Verbas-cum pulvernulentum*, which grows so abundantly round Norwich.

While the Norfolk fens produce several species which do not appear to occur in those of Cambridgeshire, the latter are favoured with the presence of a number of which I can find no reliable record in Norfolk. Conspicuous among these are *Phragmataecia arundinis*, *Hypercompa dominula*, *Orgyia cœnosa*, *Noctua subrosea*, *Pionea margaritalis*, *Nascia ciliaris*, *Dictyopteryx lorquiniana* (*uliginosana*.) and *Argyrolepia schreibersiana*. As the speedy extinction of most of these species in the Cambridge fens is a matter of probability amounting almost to certainty, it would be of great service to Entomology that they should, if possible, be transplanted into the fens of Norfolk, where they would have room to increase and multiply. This has been attempted, in the case of the two first-named species, during the last year, but probably not to a sufficient extent to ensure their permanent establishment. Although these few are absent, an inspection of the list will show that the fens contribute a very large proportion of our most local and interesting species.

The chalk districts round Norwich produce some uncommon and little known species, such as *Homœosoma nebulella*, *Argyrolepia subbaumanniana*, *Eupœecilia degreyana*, *Stephensia brunnichella*, and others; and the sandhills of the coast are favoured by the presence of such rarities as *Agrotis ripæ*, *Nyctegretes achatinella* and *Eupœecilia pallidana*, while many of the commoner coast sand-hill species are found also on the singular stretch of postglacial sea-sands at Thetford, Brandon, and their neighbourhood. This district also appears to form the head-quarters of a number of species so excessively local in their distribution, that they were formerly considered to be among the rarest of our British insects.

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Of these *Lithostege grisata*, *Acidalia rubricata*, *Agrophila sulphuralis*, *Tinca imella*, and *Gelechia vilella*, are more particularly noticeable, with the pretty little "Plume," *Oxyptilus lætus*, which appears to be entirely confined to this part of Norfolk and Suffolk.

In conclusion I may mention, that the peculiar nature of the geological formation and physical features of the county has the effect of causing very many species to be confined to exceedingly restricted localities, but that the climate is evidently favourable to their increase, since in these favoured spots they often occur in great abundance. To this peculiarity of the county local Entomologists may look as a reason for expecting to find many species which have not been noticed, and I sincerely hope, that the publication of this list may be the means of stirring them up to increase it far beyond the twelve hundred and forty species of which it at present consists.

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THE END.